

User manual



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Axence nVision Help

Total Network Visualization and Management

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Axence nVision gives you everything you need to manage your network in an efficient and effective manner. The application consists of 6 modules, which offer: proactive network monitoring and visualization, hardware and software inventory, user monitoring, remote technical support, data leak age prevention and users activity monitoring.

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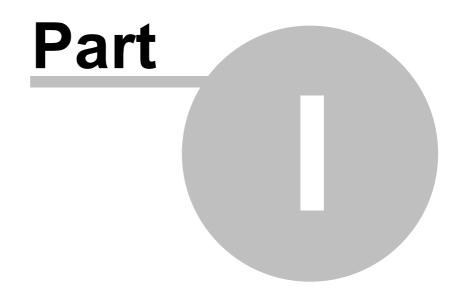
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1 Introduction

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1.1 Axence nVision modules

Axence nVision $\ensuremath{\mathbb{B}}$ – network, application and employee monitoring, hardware and software inventory

Axence nVision® consists of 5 functional modules that can be installed in any combinations and managed from one console.

Proactive network monitoring and visualization	Network	The Network module monitors mail servers and Web addresses, TCP/IP and Windows services, application status and operation, and switches and routers (port mapping, network traffic, SNMP monitoring). The network is automatically detected and presented on interactive maps.
Hardware and software inventory	Inventory	The Inventory module automatically collects the information about hardware and software of Windows machines. It enables auditing and the verification of license usage and offers information about program installation or configuration change.
Advanced user monitoring	Users	The Users module monitors and reports the activity of users working on Windows machines: the actual activity (work) time, application usage, visited web pages and network transfer.
Remote technical support for users	HelpDesk	The HelpDesk module enables a quick technical support for users by means of remote access to the workstations. It helps to solve the reported problems in a quick and effective manner.
Protection against data leaks by port blocking	DataGuard	The DataGuard module manages the access rights for all I/O ports and physical devices utilized by the users to copy files from a company machine or to run external software.
Visualization and better time management	SmartTime	The SmartTime module monitors and reports the activity of users working on machines. It enables the data collected at the web browser level to be visualized and displayed. It allows for better management of work time and enables the superiors to view the activity of their subordinates.
Alerting and events		You can define a wide range of events when an alert should be raised. Events may be defined based on any



monitored parameter and service: computer or service down, page content changed, e-mail server problems, MS SQL server parameters out of range, and much more.

Each event may trigger one or more of the notification and corrective actions, such as desktop notification, e-mail, SMS or ICQ message. Alerts are stored in the event log, so you can analyze them later.

1.2 Axence nVision versions

A list of nVision versions, together with functions and improvements they introduce, can be found on the <u>changelog website</u>.

1.3 Functionality of modules

The table below compares the functionality of nVision modules. All modules may be ordered independently.

Functionality	Network	Inventory	Users	HelpDesk	DataGuard	SmartTim e
Network	Network discovery and visualization					
nVision server: network scanning and monitoring, detection of devices and TCP/IP services, remote access with browser and automatic backup	>	>	\$	>	\$	S
nVision Console: interactive network maps, user maps, departments, smart maps, pop-up menu with definable own tools	\$	\$	\$	\$	\$	S
nVision Console: simultaneous work of multiple administrators, management of user rights, admin access log	>	>	~	>	8	>
Ν	letwork m	nonitoring				
TCP/IP services: response time and correctness, packets received/lost statistics (PING, SMB, HTTP, POP3, SNMP, IMAP, SQL, etc.)	\$	8	\$	\$	\$	\$
WMI counters: CPU load, memory usage, disk usage, network traffic, etc.	>		-	I	1	-
Windows actions: service status change (start, stop, restart), event log entries	>	-	1	I	-	-
SNMP v1/2/3 counters (network traffic, temperature, humidity, power supply	>	-	-	1	-	-

Functionality	Network	Inventory	Users	HelpDesk	DataGuard	SmartTim e
voltage, toner level, etc.)						
Support for syslog messages	>	-	-	I	1	-
SNMP traps	>	-	-	1	-	-
Routers and switches: port mapping and network traffic monitoring	>	1	-	I	I	-
File distribution with use of WMI	>	-	-	1	1	-
MIB file compiler	>	-	-	1	I	-
	Alerts and	d reports				
Event/action alerts (e.g. when important parameters fall outside of the user-defined range)	>	8	ø	>	>	v
Notifications (on desktop, by e-mail, by SMS) and repair actions (program launch, computer restart, etc.)	8	8	ø	8	8	S
Reports (for user, group, device, network maps or entire atlas)	>	V	V	8	>	~
Everyday report on employee productivity	1	-	-	1	-	>
Hardwa	re and so	ftware inv	ventory			
List of applications and Windows updates on single workstation (based on system registry and disk scan)	1	8	-	1	1	-
Software serial numbers (keys)	I	2	-	-	1	-
Information on executable files and register entries on a workstation	I	V	-	I	I	-
Information on multimedia files (mp3, avi, etc.) and zip archives and their metadata (file title and author, contents of zip file)	1	8	-	-	1	-
Overview of workstation hardware	I	2	-	1	1	-
Details of workstation hardware configurations (model, motherboard, CPU, memory, disk drives, adapters, etc.)	1	8	-	-	-	-
System info (startup commands, user accounts, shared folders, SMART details, windows task scheduler monitoring, etc.)	-	ø	-	-	-	-
Hardware and software inventory audit	I	2	-	1	1	-

Functionality	Network	Inventory	Users	HelpDesk	DataGuard	SmartTim e
Possibility to distribute and uninstall software by MSI packages	I	ø	-	-	I	-
Management of installations/uninstallations of the MSI package manager-based software	I	8	-	-	I	-
Software template database	1	2	-	1	1	-
License management	1	2	-	1	1	-
Hardware and software change history	1	 Image: A set of the set of the	-	1	1	-
Assets: IT assets register database (defining own fixed asset types, their attributes and values, attachments, data import from CSV file)	1	S	-	1	I	-
Alerts: software installation, change in hardware and system resources	I	S	-	I	I	1
Offline inventory scanner	1	V	-	1	1	-
Scanning and printing barcodes and QR codes	I	 Image: A set of the set of the	-	I	I	-
Android application enabling inventory taking with use of barcodes (for archiving and comparing fixed asset audits)	I	8	-	I	I	I
Scanning user files and ability to preview them	I	ø	-	-	1	-
User activity	, monitori	ng and vi	sualizati	on		
User activity overview	1	-	V	1	1	-
Detailed work time (activity/break start and end time)	I	1	V	I	I	8
Used applications (actively and non- actively, i.e. the total time of application running, the time of actual use by a user and the information on processes with enhanced permissions)	1	-	ø	1	1	>
Blocking of launched applications	I	-	V	1	1	-
Visited web pages (number of page visits, with headers and duration of visits)	I	-	V	-	-	ø
Blocking web pages	1	-	V	-	-	-

Functionality	Network	Inventory	Users	HelpDesk	DataGuard	SmartTim e
Printouts: Audit (per printer, user, computer), printing costs	I	1	V	-	-	-
Sent and received e-mails (headers)	1	-	V	-	-	-
Bandwidth usage: user-generated network traffic (incoming and outgoing, local and in the Internet)	1	1	V	-	I	-
Static remote view of user desktop (without access)	I	1	ø	8	I	8
Screenshots (user work history "screen by screen")	I	1	V	-	I	1
Activity data available from the web browser	I	1	-	-	-	~
Determination of the productivity level and application category	-	-	-	-	-	8
Access of superiors to their subordinates' data	I	-	-	-	-	8
Insight into their own activity data by users	I	1	-	-	I	~
Не	Ip for net	twork use	rs			
Trouble ticket database in the web browser	-	-	-	>	-	1
Creating and managing trouble tickets (assigning to administrators with e-mail notification)	I	1	-	8	1	1
Comments, attachments and screenshots in the trouble tickets	I	1	-	8	I	1
Internal instant messenger (chat)	1	-	-	~	I	-
Messages sent to users/machines with available mandatory receipt confirmation	I	1	-	>	-	-
Static remote view of user desktop (without access)	I	1	<	ø	-	-
Remote access to machines (an employee and administrator can see the same window) with possible request for consent from the user and optional mouse/keyboard blocking	-	-	-	>	-	-

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Functionality	Network	Inventory	Users	HelpDesk	DataGuard	SmartTim e
File distribution and running tasks (if a computer is turned off when the distribution is started, it will be performed after the machine is turned on)	1	1	-	>	1	I
Integration of the user database with Active Directory	I	-	I	>	>	1
Assigning HelpDesk employees to tickets' categories	I	1	I	>	-	I
Processing tickets from e-mail messages	I	-	-	~	-	-
Knowledge base	1	-	-	~	-	-
Remote command execution (ability to send command lines to workstations)	I	1	-	>	1	I
SLA metrics, i.e. support of the guaranteed service level agreements.	I	1	-	>	-	1
Device/c	lata medi	ia access	control			
Devices currently connected to computers	I	-	I	1	>	I
List of all devices connected to computers in the network	I	-	I	-	>	I
Audit (history) of connections and operations on mobile storage devices and network shares	I	I	-	I	Ś	1
Management of access rights (writing, launching, reading) for devices, computers and users (e.g. authorization of company encrypted flash memory drives, and blocking of employees' private drives)	1	I	-	1	\$	I
Central configuration by setting policies for the entire network, for selected network maps and for Active Directory groups and users	1	1	1	I	\$	I
Integration of user and group database with Active Directory	I	-	-	>	ø	>
Alerts: portable device connected/disconnected, file operation on a portable device	-	-	-	-	ø	-
	Miscella	aneous				
Protection of Agent against deleting	I	V	V	2	2	2

Functionality	Network	Inventory	Users	HelpDesk	DataGuard	SmartTim e
Axence netTools	>	~	V	>	>	2
Windows Agent	1	~	>	>	>	v

1.4 Administrator Access Log

nVision allows the Administrator Access Log to be viewed.

To navigate to the Access Log, select the **Users** tab from the map panel, and click the **Access Log** tab. Information on actions taken by all Administrators including the date and exact time can be viewed here.

The clock and calendar icons allow information from the last hour/day/week/month to be viewed. The calendar icon allows information from a specific day to be viewed.

W Axence nVision 11						- @ ×
Main Tools About nVision						
Generate MSI nackanes Print har Assets			vice permissions	Printout Configure Be	Begoris Yeaw Alerta Burlindon Anononcenses Den Options tasks Denational Smartling	
Inventory		DataGua	rd	Printouts	Reports and alerts HelpDesk	^
Devices Users Assets	All users L	Users (64) Conso	ole log			
Q Search (Ctrl+F)	← → @ 0	🗂 🗂 🛄 🛱 mar	zec 2020 * 🖸		Filter Q	
All users	Name	Date & time 🔹 👻	Object	Action	Details	
击 Hierarchy	Administrator 3	24.03.2020 14:10:27	Console	Logged in	IP Address = 127.0.0.1; Computer name = Mikuz@DESKTOP-N0QNHI1	
▷ GROUPS	Administrator 3	24.03.2020 13:22:39	Console	Logged out	at Adres IP = 127.0.0.1; Nazwa komputera = Mikuz@DESKTOP-N0QNHI1	
> 🐣 Axence nVision > 🚜 axence.local	Administrator 3	24.03.2020 13:22:25	Console	Logged in	Adres IP = 127.0.0.1; Nazwa komputera = Mikuz@DESKTOP-N0QNHI1	
> - B Built-in	Administrator 3	23.03.2020 16:00:18	Console	Logged out	ut Adres IP = 127.0.0.1; Nazwa komputera = Miku@WIN10	
SMART GROUPS	Administrator :	23.03.2020 10:26:38	Counter	Created	Nazwa = HTT(; Typ = Zmiana treści strony; Urządzenie = WIN10, 192.168.69.206	
-do intelektualisci (51)	Administrator :	23.03.2020 10:22:35	Counter	Created	Nazwa – www.wp.pl; Typ – Zmiana treści strony; Urządzenie – WIN10, 192.168.69.206	
ig- Testowa (2)	Administrator :	23.03.2020 10:22:03	Device	Viewed	Urządzenie = WIN10, 192.168.69.206	
	Administrator 3	23.03.2020 10:21:02	Console	Logged in	Adres IP = 127.0.0.1; Nazwa komputera = Miku@WIN10	
	Administrator 3	23.03.2020 10:16:25	Console	Logged out	ut Adres IP = 127.0.0.1; Nazwa komputera = Miku@WIN10	
	Administrator :	23.03.2020 10:12:54	Console	Logged in	Adres IP = 127.0.0.1; Nazwa komputera = Miku@WIN10	
	Administrator :	21.03.2020 00.01:26	Console	Logged out	ut Adres IP = 127.0.0.1; Nazwa komputera = Miku@WIN10	
	Administrator 3	20.03.2020 11:11:52	Device	Viewed	Urządzenie – WIN10, 192.168.69.206	
	Administrator 3	20.03.2020 10:00:56	User	Modified	Nazwa = Hello; Ustawienia	
	Administrator 3	20.03.2020 10:00:47	User	Viewed	Nezwa = Hello	
	Administrator :	20.03.2020 09:56:18	Device	Viewed	Urządzenie = Poseidon3266, 192.168.0.27	
	Administrator	19.03.2020 15:13:43	User	Modified	Nazwa = Mikuz; Uprawnienia	
	Administrator	19.03.2020 15:07:13	Desktop preview	Viewed	Nazwa = Miku@WIN10; Urządzenie = WIN10, 192.168.69.206	
	Administrator	19.03.2020 15:07:12	User	Viewed	Nazwa = Mikuz	
	Administrator	19.03.2020 15:06:42	Console	Logged in	Adres IP = 127.0.0.1; Nazwa komputera = Miku@WIN10	
	Administrator	19.03.2020 14:58:08	Console	Logged out	at Adres IP = 127.0.0.1; Nazwa komputera = Miku@WIN10	
	Administrator	19.03.2020 14:55:05	Console	Logged in	Adres IP = 127.0.0.1; Nazwa komputera = Miku@WIN10	
	Administrator	19.03.2020 14:48:08	Console	Logged out	ut Adres IP = 127.0.0.1; Nazwa komputera = Miku@WIN10	
	Administrator	19.03.2020 10:47:20	License	Modified	Oprogramowanie - Licencja teatowa	
	Administrator	19.03.2020 10:37:54	License	Modified	Oprogramowanie – Licencje google	
	Administrator	19.03.2020 10:36:37	Console	Logged in	Adres IP = 127.0.0.1; Nazwa komputera = Miku@WIN10	
	Administrator	19.03.2020 10:36:11	Console	Logged out	at Adres IP = 127.0.0.1; Nazwa komputera = Miku@WIN10	
	Administrator	17.03.2020 10:59:20	Console	Logged in	Adres IP = 127.0.0.1; Nazwa komputera = Miku@WIN10	
	Administrator	16.03.2020 17:37:03	Console	Logged out	at Adres IP = 127.0.0.1; Nazwa komputera = MikugWINTO	
	Administrator	16.03.2020 13:35:56	Report	Viewed	Nazwa = DG audyt: Atlas	
	Administrator	16.03.2020 13:35:50	Report definition	Modified	Nazwa = DG audyt; Raport dla = Mapa	
	Administrator	16.03.2020 13:35:33	Report definition	Created	Nazwa = DG audyt; Raport dla = Mapa	
What's new?	\$				Event Log	
Devices: 235 (2 Ok, 3 Warning, 192 Down)	Services: 558 ((5 Ok, 547 Down)	Alerts: 1 (Dev	rice with alerts: 1)		

To display the **Access Log** for a specific Administrator, double left-click their account name, navigate to the **Events** tab, and then open the **Access Log** tab.

	RATOR				
GENERAL	← → Q 11 11	🗂 🖽 marzec 2020 •	c		Filter Q
ACTIVITY	Date & time 🔹 0	bject	Action	Details	
ACTIVITY	24.03.2020 14:25:09 U	ber	Viewed	Name = Administrator	
SCREENSHOTS	24.03.2020 14:10.27 C	onsole	Logged in	IP Address = 127.0.0.1; Computer name = Mikuz@DESKT0P-N0QNHI1	
auneenanura	24.03.2020 13:22:39 C	onsole	Logged out	Adres IP - 127.0.0.1; Nazwa komputera - Mikuz@DESKTOP-N0QNHI1	
ASSETS	24.03.2020 13:22:25 C	onsole	Logged in	Adres IP = 127.0.0.1; Nazwa komputera = Mikuz@DESKTOP-N0QNHI1	
- AUGETO	23.03.2020 16:00:18 C	onsole	Logged out	Adres IP = 127.0.01; Nazwa komputera = Miku@WIN10	
SOFTWARE		ounter	Created	Nazwa = HTT[; Typ = Zmiana treści strony; Urządzenie = WIN10, 192.168.69.206	
		ounter	Created	Nazwa = www.wp.pl; Typ = Zmiana treści strony; Urządzenie = WIN10, 192.168.69.206	
EVENTS		evice	Viewed	Urządzenie + WIN10, 192.168.69.206	
	23.03.2020 10:21:02 C	onsole	Logged in	Adres IP - 127.0.0.1; Nazwa komputera - Miku@WIN10	
CHANGE HISTORY	23.03.2020 10:16:25 C	onsole	Logged out	Adres IP = 127.0.01; Nazwa komputera = Miku@WIN10	
		onsole	Logged in	Adres IP = 127.0.0.1; Nazwa komputera = Miku@WIN10	
ACCESS LOG	21.03.2020 00:01:26 C	onsole	Logged out	Adres IP = 127.0.01; Nazwa komputera = Miku@WIN10	
DATAGUARD	20.03.2020 11:11:52 D	evice	Viewed	Urządzenie = WIN10, 192.168.69.206	
DATAGUARD			Modified	Nazwa = Hello; Ustawienia	
A BLOCKADES			Viewed	Nazwa - Hello	
00000000	20.03.2020 09:56:18 D	evice	Viewed	Urządzenie – Poseidon3266, 192.168.0.27	
	19.03.2020 15:13:43 U	ser	Modified	Nazwa = Mikuz; Uprawnienia	
	19.03.2020 15:07:13 D	esktop preview	Viewed	Nazwa = Miku@WIN10; Urzędzenie = WIN10, 192 168.69.206	
PERMISSIONS	19.03.2020 15:07:12 U	ser	Viewed	Nazwa = Mikuz	
	19.03.2020 15:06:42 C	onsole	Logged in	Adres IP = 127.0.0.1; Nazwa komputera = Miku@WIN10	
		onsole	Logged out	Adres IP - 127.0.0.1; Nazwa komputera - MikugiWIN10	
		onsole	Logged in	Adres IP - 127.0.0.1; Nazwa komputera - MikugiWIN10	
			Logged out	Adres IP = 127.0.0.1; Nazwa komputera = Miku@WIN10	
			Modified	Oprogramowanie = Licencja testowa	
			Modified	Oprogramowanie = Licencje google	
		onsole	Logged in	Adres IP = 127.0.01; Nazwa komputera = Miku@WIN10	
			Logged out	Adres IP = 127.0.0.; Nazwa komputera = MikugiWIN10	
			Logged in	Adres IP - 127.0.0.1; Nazwa komputera - MikugiWIN10	
			Logged out	Adres IP = 127.0.0.1: Nazwa komputera = Miku@WIN10	
			Viewed	Nazwa = DG eudit: Atlas	
			Modified	Nazwa = D Geudyt, Raport dla = Mapa	
			Created	Nazwa = DG sudyt; Raport dla = Mapa	
			Logged in	Adres IP = 127.0.0.1; Nazwa komputera = Miku@WIN10	
			Logged out	Adres IP - 127.0.0.1; Nazwa komputera - Mikug@WIN10	
		woort	Viewed	Narwa - Attvantoli. Uzitkomiklori Narwa - Mikoz	

1.5 Axence account

1.5.1 Description

To improve the comfort of our Users, along with the Axence nVision® update to version 7.5, we have introduced the Axence Account, enabling you to manage licenses.

- Starting from version 7.5, Axence nVision® license has no license key in the form of .ALS file (old keys are valid only for older versions, e.g. 7.1, 6, etc.).
- At the moment **the license has the form of an activation code** which is manually pasted into the programme or downloaded from the Axence Account. (<u>How to activate the full version of Axence NVision® ?</u>
- The activation code generated by Axence is automatically sent directly to the assigned Axence Account user (in the case of the first purchase, the administrator also receives licensing information by e-mail).

• Who should have an Axence Account set up?

Each license is associated with an Axence Account which should be created for a specified user, preferably the administrator, who will be responsible for Axence nVision® within a given company. (Enter Axence Account >>) Thus, Axence nVision® will automatically download all updates or license changes.

• Who can set up an Axence Account?

The Account may be created by the user on their own or by Axence (at the user's request).

What data are necessary to create an Axence Account?

The following information is necessary to set up an Axence Account:

- full name of the administrator (or another specified user who will be responsible for Axence nVision® within the company/ institution),
- an e-mail address,
- name of the company/institution which owns the license.
- If a user already has an Axence Account set up, this information will allow them to be found in the user database and to merge their account with the new license.

• Do I have to have an Axence Account for trial licenses?

Yes, the requirement to create the Axence Account applies to all types of licenses: trial, timelimited and time-unlimited ones.

If you already are our Customer:

We have already created an Axence Account for you and we have generated the license for version 7.5. Please check your mailbox and proceed according to the received instructions. If you have received no information, please contact our Sales Department at: <u>sales@axence.net</u>.

Each license change, including expansion of the license, change of the Maintenance Agreement period, or extension of the license validity period, is performed with the use of the Axence Account, and the Customer does not receive any additional/ new code. The automatically modified license is sent to Axence nVision®.

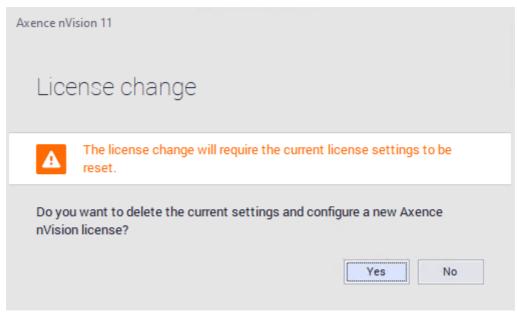
1.5.2 Registration

In nVision 7.5, integration with Axence Account was introduced. The account facilitates purchase and the easy management of licenses – both the free ones and the paid licenses for Axence nVision®.

Axence accounts are being set automatically on the e-mail address from the order form. For accounts set automatically, an email with a link to reset the password is sent.

Axence Account can be registered:

- during Axence nVision® installation click here to display the step-by-step instruction (Internet access is required);
- 1. In the license-selection window, click the I want to get free license for Axence nVision® option, then click Next button:



2. Fill the e-mail address field, and then fill the form:

Axence nVision 11	
Register free license	
Create a free license to: - monitor an unlimited number of network - get details on up to 10 workstations	ork devices
* E-mail address:	
Start again	Next Cancel
Providing data and granting consent are voluntary but necessary to re The data controller is Axence Sp. z o.o. Sp. K., NIP (Tax Identification conclusion and performance of license agreement, and direct market granted consent. The consent is voluntary and may be withdrawn at a compliance of the processing that has taken place on the basis of the may be withdrawn by sending a relevant request to the following addr	Number): 6751399589. Purpose of processing: ing of the data controller on the basis of the any moment, which shall not affect the legal e consent prior to its withdrawal. The consent
Ordering a paid license or ending the use of software is not automatic consent (it may be withdrawn at any time in the way described above Withdrawal of consent may block the non-paid license.	
More: Privacy Policy.	

NV Axence nVision 11			×
Register free lic	ense		
Please fill in the missing info	ormation required to regis	ter the free lic	ense.
* E-mail address:			
* First name:	Enter your first name		
* Last name:	Enter your last name		
* Organization:	Enter your organization n	ame	
* Phone number:	Enter your contact phone	number	
*	I hereby grant my consen information from Axence indicated email address a	Sp. z o.o. Sp. K.	to the
Registration means that you giv personal data for the purposes or over the phone.		-	
Providing data and granting cor a non-paid license.	nsent are voluntary but neces	sary to receive	
Start again		Register	Cancel
The data controller is Axence Sp. z o.o. Sp. f conclusion and performance of license agre granted consent. The consent is voluntary a compliance of the processing that has take may be withdrawn by sending a relevant rec	eement, and direct marketing of the o and may be withdrawn at any momen in place on the basis of the consent p	lata controller on the nt, which shall not at prior to its withdrawa	e basis of the ffect the legal al. The consent
Ordering a paid license or ending the use of consent (it may be withdrawn at any time in Withdrawal of consent may block the non-p	the way described above).	tood as withdrawin	g the marketing
More: Privacy Policy.			

• with the use of a web browser at https://account.axence.net/.

1.5.3 Log in

To log in to an Axence account, select the **Axence nVision** tab in the upper left corner of the window, and then click **Change license** button in the **License** section.



W Axence nVision 11			- 8
	Program	User	
Information Close application	nVision]]	User logged. Administrator Log out	
	Axence nVision8, version: 11.5.0.28748 License Agreement Check for update		
	License		
	License for Mikolaj Maturazry (mikolaj maturazry) Barence net) Azence Support - Mikolaj Moduka: Horoval, Invertory Lane, Helposh, DataGuard, SmartTime <u>Namber of licensed</u> Agents: 40 (used 2) Shange license		
	Technical Support Service agreement till 2020-12-31		
	Online lego Report problem		

The following window will be displayed:

Axence	nVision 11
Lic	cense change
A	The license change will require the current license settings to be reset.
-	you want to delete the current settings and configure a new Axence sion license? Yes No

By clicking on Yes button, you will remove the currently installed license key, and the Axence account login window will be displayed (data gathered in monitoring and nVision's configuration will be kept). Then enter the e-mail address and password of the registered account associated with the license.

1.5.4 Language management

In order to change language, go to Edit profile settings after logging in:

OXCOUCT OCCOUNT		Mikolaj Matusmy 🖨
OCCOUNT	Settings	
Your licenses		
🗮 Ask for price	* First name:	Mikolaj
🔺 Edit profile	* Last name:	1
	* Company:	Axence
	* Phone:	791736965
	* Language:	English V
		Save changes
	Account settings	
	E-mail:	mikolaj angene net
		change e-mail change password

1.5.5 Manage Axence account

To manage an Axence account, log in at: <u>https://account.axence.net</u>.

axence®						Mikołaj 1 🕞
	Your Axence nVision licenses					2
E Your licenses	LICENSE CODE:		MODULES: 🚠 NETWORK 🧧 INV	'ENTORY 🤱 USERS 🤀 HELF	PDESK 🔰 DATAGUARD 🖅 SMARTTIME	
🚢 Edit profile	99KHQK-TBMV6-CWBXF	ረግ	Issued for: Axence Support - Mikołaj Matuszny Licencja testowa Versions: 10, 11			
	Agents (used/licensed): Last updats: 1:38 PM, 3/24/2020	2/40	Used by DESKTOP-NOQNHI1 (89.64.55.73)	Expiration date 12/31/2020	Service agreement till 12/31/2020	
	License Agreement					
	LICENSE CODE: W6692J-FVX2R-9T96H	ሪ	MODULES: A NETWORK A INVENTORY & USERS () HELPDESK () DATAGUARD () SN		PDESK 🔰 DATAGUARD 🕗 SMARTTIME	
	Deactivate		Versions: 9, 10, 11(Free)			
	Agents (used/licensed): Last update: 8:41 AM, 11/5/2019	1/10	Used by WIN10VM (31.172.177.154)	Expiration date PERPETUAL	Service agreement till NO AGREEMENT	
	License Agreement					
	How to activate the full version of Axence nVision Pro					

The main page of Axence account includes an administration panel in the left part of the window. The panel offers links to the following sub-pages:

Menu	Description			
Your licenses	Enables details on purchased licenses to be viewed.			
Request a quote	Enables contact with the Axence's Commercial Department for a quote.			

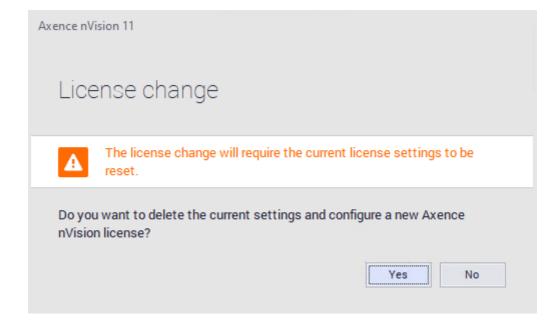
Edit profile	Enables the basic account information to be viewed and edited.			
We are currently working on	Shows a list of functions on which programming work is currently in progress.			

1.5.6 Activation

Details of used license are displayed after clicking Axence nVision in the window's ribbon.

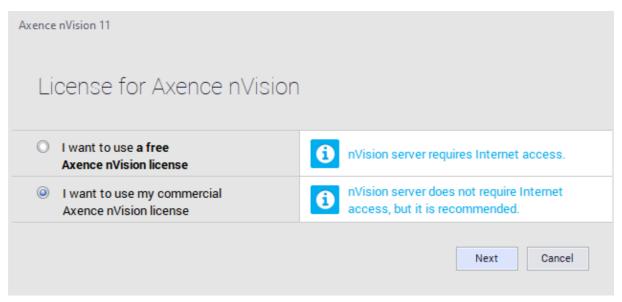
W Axence nVision 11			– 8 ×
\odot			
	Program	User	
Information	nVision 1	User logged: Administrator	
Close application		Logout	
	Avence M/sion9, version: 11.5.0.28748 License Agreement Check for update		
	License		
	License for Mildelj Matturery (mildelj matutery) (Barnere nat) keeree Support - Mildelj, Moder: Herberg, hverder, Ulen, Huljbelt, DataGuard, SmartTime Mathematical Flammer, Agents: 40 (used 2)		
	Technical Support		
	Service agreement till: 2020-12-31 Online help		
	Report problem		

In order to enter the license key, click Change license. The following window will be displayed:



By clicking on **Yes** button, you will remove the currently installed license key, and the Axence account login window will be displayed (*data gathered in monitoring and nVision's configuration will be kept*).

In the license-selection window, click the **I want to use my own Axence nVision® license** option, then click the **Next** button:



Free version activation:

In order to activate free license, you have to select **I want to get free license for Axence nVision**® option, even if the free license has been created before.

If there is no active Internet connection (**Axence nVision** service cannot connect to the activation server), follow the onscreen instructions:

±Online activation

1. Enter the e-mail address and password of the registered Axence account associated with the license. Click the **Next** button:

Axence nVision 11	
Log in to Axend	e Account
* E-mail address: * Password:	Enter the Axence Account password Forgot password?
Start from beginning	Next Cancel
	cense for Axence nVision Pro ? uiry or contact sales@axence.net

- In the Enter license window, type or paste the license key copied from e-mail or <u>Axence Account</u> webpage.
- 3. After clicking the Enter license button, nVision is activated.

•Offline activation

Follow the onscreen instructions.

- 1. On the machine with Internet access, visit the following webpage: <u>https://account.axence.net/#/offline</u>.
- 2. Fill in the offline-license generating form:

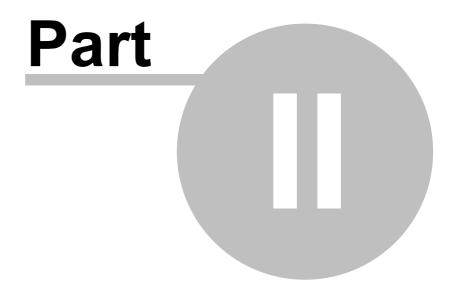
Computer's name: (any computer name)

License key: (the license-key copied from You're the webpage

https://account.axence.net/licenses e.g.: 4B4MC9-MG4PQ-XYZXY-XYZXY)

Machine key: (12-alphanumeric key copied from Enter license window in step 1).

- 3. In the offline-license generating form, click the **Download the offline license** button, then **Save the file**.
- 4. Save and copy the offline-license **AxenceOfflineKey.txt** file on hard drive on nVision Server machine, click the **Import license** button and select the file. Click **Enter license** button.



2 Requirements and configuration

2.1 System requirements

Operating system (with up to date Service Pack installed)	nVision Server ¹	nVision Console	nVision Agent
Windows XP	×	×	2, 4
Windows Server 2003	×	×	2
Windows Vista	×	×	 2, 4
Windows Server 2008	×	×	2
Windows 7	×	v 2	2
Windows Server 2008 R2	×	v 2	2
Windows 8	×	×	2</td
Windows Server 2012	2	2	2
Windows 8.1	2	₽</td <td>2</td>	2
Windows Server 2012 R2	√ 2	₽</td <td> ✓ 2 </td>	 ✓ 2
Windows 10	Ś	 Image: A second s	 Image: A second s
Windows Server 2016	 Image: A set of the set of the	<	v 3
Windows Server 2019	 Image: A set of the set of the	<	√3
Windows Server 2022	 Image: A set of the set of the	 Image: A set of the set of the	v 3
Windows 11	 Image: A set of the set of the	v	v

1 - Usage of nVision Server: The nVision server should only be utilized on server editions of Windows due to Microsoft's licensing policies, which do not permit hosting applications on client editions of Windows.

2 - You can install the program, but it's important to note that this version of the system is no longer supported. As a result, some features may not be available.

Please be aware that if you encounter technical difficulties, we may not be able to provide a solution due to the unsupported system version. Therefore, we strongly recommend updating your system to a version that is supported by the manufacturer.

Microsoft Product and Services Lifecycle Information

3 - Limitations on Windows Version: On this version of Windows, with SecureBoot enabled, network filtering, email monitoring, and DataGuard functionality may not function properly.

4 - Changes in Remote Access Feature: Starting from nVision version 15.0, the remote access feature within the HelpDesk module will no longer operate on computers running **Windows XP** or **Windows Vista**. It's recommended to upgrade the system accordingly.

Recommended Hardware Requirements for nVision Server:

Axence nVision Help

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- Intel Xeon Scalable Series 63XX/64XX processor or equivalent, with a CPU clock speed of 2.8 GHz or higher,
- Operating system: Windows Server 2019 or newer (64-bit).

Suggested machine configurations based on the number of monitored computers.

Number of monitored computers	250	500	1000	2000	3000	4000
vCPU [2,8+ GHz]	4	4	4	6	8	10
RAM [GB]	4	4	8	16	24	32
Disk Space [GB]	50	100	200	400	600	800
Transfer to/from Server [GB/day]	0.75	1.5	3	6	9	12

IMPORTANT

The nVision server must operate on a static IP address or under a fixed DNS name.

nVision Console:

- double core CPU,
- 2 GB RAM,
- 400 MB of free disk space,
- 64-bit operating system,
- Windows 8 or newer,
- connection to the nVision Server on TCP port 4436 (it is possible to change the port),
- for accurate report generation, Internet Explorer version 11.

Minimum requirements for the nVision Agent:

- single core CPU,
- 128 MB RAM,
- 100 MB of free disk space,
- Windows XP or newer,
- Connection to the nVision Server on TCP port 4436.

The following components are necessary for the application to operate properly. nVision downloads and installs them during installation. If this is not possible, manual installation may be required.

nVision Server/Consoles:

Microsoft Visual C++ Redistributable 2015-2022 (x86 oraz x64) - <u>https://learn.microsoft.com/en-us/cpp/windows/latest-supported-vc-redist?view=msvc-170</u>

Microsoft Edge WebView2 (x86 oraz x64) - <u>https://developer.microsoft.com/en-us/microsoft-</u> <u>edge/webview2/?form=MA13LH#download</u> (Tip: The link may not open correctly in Google Chrome browser. Please use Microsoft Edge browser instead.)

nVision Server:

Microsoft .NET Framework 4.8 - <u>https://dotnet.microsoft.com/en-us/download/dotnet-framework/net48</u> Microsoft .NET 6.0 (Hosting Bundle) - <u>https://dotnet.microsoft.com/en-us/download/dotnet/6.0</u>

To guarantee the correct operation of nVision Server, nVision Consoles, nVision Agents and net-Tools, add the installation folder

(e.g.: "C:\Program Files (x86)\Axence") to the list of exclusions of the anti-virus software on each machine – examples:

- Eset Antivirus
- Kaspersky Antivirus 2018
- AVG Antivirus
- <u>Bitdefender</u>.

After adding the exclusion, restart the configured computers.

nVision operates correctly with Bitdefender antivirus version 6.12.1-1 or newer.

Browsers monitored by nVision:

- Internet Explorer,
- Microsoft Edge,
- Mozilla Firefox,
- Google Chrome.

2.2 Ports

To enable communication between the Agents and nVision, it is necessary to open specific ports on the devices with Agents and on the device with nVision running. Agents and nVision automatically open the required ports in Windows Firewall. However, if any other firewall is present, these ports must be opened manually. These ports must also be open on the router, if the Agents work outside of the local network containing the nVision machine.

Ports open on the device with nVision

TCP port	Description
4434	diagnostic information
4436	Communication with Agents (permanent connection).
8080*	WebAccess – access to nVision via web browser.

TCP port

Description

* Configurable value. Can be changed in nVision: **Tools / Options / Services Configuration / Web Access**.

Ports open on the remote devices

If the ports on the device with the Agent are closed, the Agent will continue to collect monitored data and send them to nVision; however, some operations made in nVision will not have an immediate effect in the Agent.

TCP port	Description
4433	I diagnostic information.
135.139, 445, 593	WMI, including the monitoring of Windows counters (<u>Monitoring and managing</u> <u>Windows with WMI</u> [30]). Important: Windows counters can also be monitored by Agents (see <u>Monitoring Windows services</u> [63]).

Additionally, when monitoring TCP/IP services, the respective ports on the remote device, depending on the monitored service e.g. TCP 80 for HTTP, must be open.

For more information about the remote access and permanent connection between the Agent and nVision, see the chapter <u>Remote access</u> [488].

For more information about configuring Agents on mobile machines, see the chapter <u>Configuration of</u> <u>Agents installed on mobile machines</u> **1**

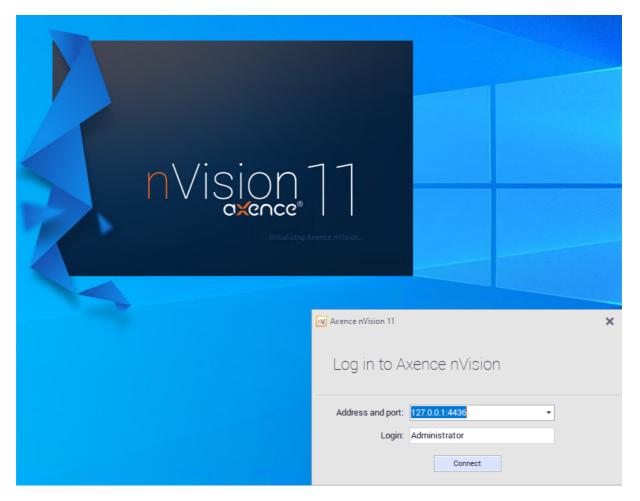
2.3 Remote nVision Console

Version 7 of nVision introduced the option to separate the installation of nVision Console from the nVision Server. The installation of a remote Console allows for the simultaneous work of several Administrators with the software.

To install only the nVision management console, use the same setup file as in the case of the basic Server installation. The setup will allow the choice of the components which are to be installed – select option "Install only the management console".

When the Console is installed and the nVision installation folder is added to the scanned exclusions of the anti-virus software, the software can be run.

In the login dialog box, enter the login and password of the nVision Administrator, the IP address and the port of the remote computer where nVision Server is installed:



2.4 Window layout

The nVision window layout is intuitive and easy to use.

👕 🤜 📅 🚱 🔜 Ma	olication categories nage templates nfigure license type	Connecto Co Manage Co Manage DataG	device permi trustee perm	issions Prir	o tout Config dit print o Printouts	gure <u>R</u> eports	View Alerts gvents orts and alerts		Open elpDesk		Options							
Devices Users Assets	All devices (Atlas)	List (235)	Agent	s (2) Hard	ware Hist	ory											Filter Q	
Search (Ctrl+F)		Device				Address		Services					response ti					Ale
All devices (Atlas) NETWORKS	* Status Type	Name	Info	IP	DNS	Mac	NIC Vendor	Services	Age Status		Average	Min	Max	Last response tin		requests/packe	% Lost	Last alert
NETWORKS	Linux	UBNTEdo		192.168.0.2	Direct Control	muc	THO VEHICL	PING SNMP HTTP SSH2 SS		60	Arcivyc		max	23.03.2020 16:0		270	_	_
CUSTOM MAPS	Network Devi	e Poseidon		192.168.0.18				PING SNMP HTTP		1				18.03.2020 13:2		135	100 %	
	Network Devi			192,168,0,23				PING		1				23.03.2020 15:5		45	100 %	
DEPARTMENTS	Network Devi	ce		192.168.40.88				HTTPS HTTP		1				23.03.2020 16:0	90 0	90	100 %	_
SMARTMAPS	Network Devi	ce .		192.168.111				HTTP		1				19.03.2020 09:4	45 0	45	100 %	21.03.202.
one of the other	Network Devi	ce .		192.168.20.67				ROP NetBIOS (TCP) SMB3 SN	182	1				23.03.2020 16:0	178 0	178	100 %	21.03.202.
	Network Devi	ce .		192.168.111				HTTP		1				23.03.2020 16:0	45 0	45	100 %	21.03.202.
	- Network Devi	ce		192.168.50.1				ROP NHEBIOS (TCP) SMB3 SN	182	1				02.03.2020 15:2	178 0	178	100 %	21.03.202.
	- Network Devi	ce .		192.168.60.99				ROP NetBIOS (TCP) SMB2 SN	183	1				02.03.2020 14:5	178 0	178	100 %	21.03.202
	e Network Devi	ce .		192.168.111				HTTP		1				28.02.2020 17:1	45 0	45	100 %	21.03.202.
	Network Devi	ce .		192.168.40.1				ROP NetBIOS (TCP) SMB3 SN	182	1				13.03.2020 16:1	178 0	178	100 %	21.03.202.
	- Network Devi	ce		192.168.50.1						1				Never	0 0	0	0%	21.03.202.
	m Network Devi	ce		192.168.40.1						1				Never	0 0	0	0%	21.03.202.
	- Network Devi	ce urlopy.ax		192.168.0.35	urlopy.axe			PING HTTP SSH2 SSH		1				23.03.2020 16:0	180 0	180	100 %	21.03.202
	Metwork Devi	ce .		192.168.40.1				ROP NetBIOS (TCP) SMB3 SN	182	1				23.03.2020 16.0	178 0	178	100 %	21.03.202.
	Network Devi	ce .		192.168.111				HTTP		1				28.02.2020 15:5	45 0	45	100 %	21.03.202
	Network Devis	ce		192.168.111				HTTP		1				28.02.2020 17:1	45 0	45	100 %	
	- Network Devis	ce		192.168.111				ITTP		1				28.02.2020 17:1		45	100 %	
	Metwork Devi	De .		192.168.50.1				NetBIOS (TCP) SMB3 SMB2		1				03.03.2020 16:2		133		21.03.202.
	Network Devi			192.168.111				нпр		1				29.02.2020 00.0		45		
	Network Devi			192.168.111				HTTP		1				29.02.2020 00:0		45	100 %	
	Network Devis			192.168.111				япн		1				28.02.2020 15:5		45	100 %	
	Network Devi			192.168.20.1				ROP NetBIOS (TCP) SMB3 SN	182	1				23.03.2020 16:0		178	100 %	_
	Metwork Devi			192.168.111				(4TTH)		1				28.02.2020 15:5		45	100 %	
	Network Devi			192.168.0.90				HITE SINCE HITES		1				23.03.2020 16.0		135	100 %	
	 Network Devis 			192.168.60.1				HTTP SIMMP HTTPS		1				26.02.2020 13:5		135		21.03.202.
	Network Devi			192.168.111				HITP		1				28.02.2020 20.2		45	100 %	
	Network Devi			192.168.111				HILE		1				28.02.2020 15:5		45	100 %	21.03.202.
								dded to exclusions list in antimalwar						24.02.2020.0000		45	100.6	- 21 n3 707

Menu bar

The nVision functions are grouped into in 3 tabs on the menu bar:

This tab presents information about nVision version, logged in user, entered license and service contract termination date.

표 "Main" tab

Group	Functions	Description
	Generate protocol	Allows to generate asset transfer protocols.
	Asset settings	Asset settings management <u>ustawieniami zasobów.</u> ²⁰⁰
	Print bar codes	Categories <u>creation and management.</u>
Inventory		Manage printouts of bar codes for assets. Allows to configure <u>additional fields</u> [278] for all licenses.
	Manage templates	-
	Manage templates MSI packages	Allows to manage software templates synchronized with the /
	manager	Allows to manage software installation via MSI packages. 479
	Audit	Allows the review of the history of connections and file
	Audit	operations on external media.
	Connected devices	Presents a list of devices connected to hosts with Agents.
DataGuard	Manage devices	Allows the configuration of <u>access rights to devices</u> <u>connected to Agents</u>
	Manage trustees	Allows the configuration of access rights to media for
	Manage trustees	<u>USERS</u> 328
	Printout audit	Allows a <u>list of printouts performed by users</u> [176] to be displayed.
Printouts	Configure Printing costs	Allows the configuration of Printing costs 177.
Reports and	Reports	Allows the preparation of templates and <u>generation of</u>
alerts	Event log	Displays all <u>generated alerts</u> ניזא.
	Alerts	Configuration of <u>alerts for Atlas</u> 590.
	Open HelpDesk	Opens the <u>Helpdesk web interface</u> [377].
HalmDaak	Distribution tasks	Allows files to be uploaded and executed remotely on Agents 479.
HelpDesk	Messages	Allows for easy <u>provision of information 475</u> to users with an installed Agent.
	Configuration	Opens the <u>Helpdesk settings</u> [358] window.
SmartTime	Opens SmartTime wel	b interface.
Settings	Opens nVision main s	ettings.

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🛨 "Tools" tab

	E	
Group	Functions	Description
	Add user	Creates a new user account.
	Add group	Creates a new group.
Devices and users	Add device	Allows an icon to be added for a new device (e.g. the one undetectable by ping scanning).
	Show duplicated devices	Presents a list of devices with duplicated IP/MAC addresses or DNS names.
	Create counter for devices	Allows the creation of performance counter on multiple devices िठी.
	Run netTools	Runs <u>netTools.</u>
Tools	Discover new network	Runs the <u>network discovery wizard</u> 55.
	Distribute file with WMI	Opens the distribution with WMI menu
	SNMP trap server	Server configuration and review of collected SNMP traps 73.
SNMP and Syslog	Syslog server	Server configuration and review of collected Syslog messages 76.
	MIB compiler	Allows MIB files to be imported 72.
	Install nVision Agent	Allows the preparation of the <u>Agent installer file in the form of MSI</u> package 117
	Uninstall nVision Agent	Allows for the remote uninstallation of Agents that connect with the Server.
Agants	Import inventory scans	Allows for the inventory of computers without installed Agents.
Agents	Propagate new Atlas address	Enables Agents to be prepared for <u>moving nVision server</u> installation to another machine 648.
	Manage your Agent profiles	Management of <u>Agent configuration</u> [127].
	Inventory scanner executable file	Allows the inventory scanner file to be saved.
	Options	Allows the <u>nVision operation options [326]</u> to be changed.
	Atlas properties	Basic Atlas properties (visualization style, ignored devices, etc.)
	Filters for smart maps	Allows the creation of <u>smart maps</u> [108] that group devices complying with specific conditions.
Options	Filters for smart groups	Allows the creation of smart groups that group user accounts complying with specific conditions.
	Manage	Configuration of: <u>events</u> [595] and <u>actions</u> [607], alerts, icon visualization styles, additional tools, login credentials and <u>departments</u> [107].

Atlas panel

The Atlas panel is located in the left part of the window and divided into two tabs: **Devices**, **Users and Assets**.

The **Devices** tab presents a list of all devices grouped as maps. To find out more about maps, see the chapter <u>Atlases, maps and hosts</u> 84.

After selecting devices in the tree, the list is presented in the central view.

The **Users** tab presents the nVision user accounts and their groups. Both the accounts and groups are carriers of monitoring and blockade settings. See the <u>monitoring</u> [32] and <u>locking settings</u> [35].

The **Assets** tab presents a list of all assets created in the program. It also gives you the ability to create application templates and check what programs are installed. Detailed information is presented in the <u>dedicated chapter</u>.

2.5 Configuration

2.5.1 Basic configuration

Planning the monitoring

To successfully monitor all devices in your network you must perform several steps even before you start the nVision network scanner. This is a list of all steps you need to take to be able to fully utilize all nVision features:

⊞Properly configure SNMP devices

To successfully monitor all devices in your network you must perform several steps even before you start the nVision network scanner. First of all you have to properly configure SNMP devices (the most important is setting the proper IP address and SNMP community). For more information about SNMP device configuration you should refer to the appropriate device documentation.

Configuring credentials

To monitor SNMP, you also need to provide the SNMP community. You can specify the community in the **Host info** window on the SNMP tab.

		Atence Wilsion Agent PING Drivice status - Drivice status - Drivice status - Drivice status - DOWN
		Last response: 18.03.2020 13
		SNMP manageable device Configure cred
	Device properties: Poseidon3268, 192.168.0.18	
	SNMP login credentials	
	SNMP credentials: Default SNMP credentials	
	Credentials details: SNMP v1	
	Credentials details: SNMP v1	
	Read community:	
	Write community,	
	public	
	Test credentials Edit custom credentials	
	These credentials will be used to read data through the SNMP browser and Port mapper.	
	Manage credentials Apply Qk Gancel	

Requirements for monitoring SNMP devices

Monitoring	Protocols used	Requirements
SNMP performance	SNMP	Login credentials properly set
counters		Host configured as SNMP manageable
		• At least one interface checked as supporting SNMP.
Ports and interfaces on switches and routers		• SNMP properly configured on the remote host.
		• Availability of specific SNMP OIDs and tables on the
Network traffic		remote host.

etwork traffic

Additionally to the above requirements, the firewall on the remote host must be properly configured. The following table lists the ports that must be open:

Protocol or monitor	Required open ports
SNMP	UDP 161,162

■Enable WMI on all Windows machines

Enabling WMI is described in detail in the Monitoring and managing Windows with WMI [30] topic. In order for the WMI to operate correctly, the login credentials (i.e. Windows credentials on the specific station) should be properly configured.

Install nVision Agents

Possible methods of installing Agents are described in detail in section Installing and uninstalling Agents 117.

HOpen specific ports on the computer running nVision and on remote computers

Agents and nVision automatically open the required ports in Windows Firewall. However, if any other firewall is present, these ports must be opened manually.

The ports are listed in the topic Ports 23.

Related topics

- Requirements
- Remote access
- Installing and uninstalling Agents
- Magent settings [127]

2.5.2 Monitoring and managing Windows with WMI

Enabling monitoring of Windows counters

WMI (used by WinTools, resource information selection and Windows performance counters monitoring) is fully enabled on Windows 2003 Server. But you need to perform several operations if you would like to get information from Windows XP Professional, Vista and Windows 7 computers. To speed up the whole operation, we prepared a program (WMIEnable.exe, available from the nVision installation folder) which automatically performs all necessary operations. To enable WMI, just run this program on the remote machine. You can run it from the login script, thus enabling WMI on all Windows XP, Vista and Windows 7 machines in your network at once. If you are using any third party firewall on the remote host, then you also need to open the following ports on your own: TCP 135, 139, 445, 593.

To be able to use WinTools or read resources from Windows, keep in mind that the remote system must have exactly the same login credentials (user name and password) as the user logged in on the computer running netTools and nVision. This is due to the limitations of the Home edition.

WMIEnable

This program enables WMI on the Windows XP Professional and Vista computers. This is exact list of operations performed by this program:

1. DCOM is enabled by setting registry key

[HKEY_LOCAL_MACHINE\Software\Mcrosoft\OLE\EnableDCOM] value to " \mathbf{Y} ".

2. Remote UAC on Windows Vista is enabled by setting registry key

```
[HKLM\SOFTWARE\Microsoft\Windows\CurrentVersion\Policies\system\LocalAccountTokenFilterPolicy]
```

value to 1.

3. The WMI ports (**TCP 135, 139, 445, 593**) are opened on the Windows firewall by performing the following command:

```
netsh firewall set service RemoteAdmin
```

- 4. Access to WMI on Windows Vista is enabled by adding a firewall exception for **Windows Management Instrumentation (WMI)**.
- 5. Authorization model is set to "Local user authorize as themselves" by setting registry key

[HKEY_LOCAL_MACHINE\System\CurrentControlSet\Control\Lsa\forceguest] value to 0.

In almost all cases the system restart is not necessary and WMI will be enabled right after the program execution, but you can also force Windows system restart after the above parameters are set by running the program with the **/restart** parameter. The program will not restart the system if it is not able to change system settings.

If the WMI is still not working

If you have run the WMIEnable program and WMI is still not working, then verify the following:

- Enter Local Security Settings (secpol.msc /s) and select Local Policies -> User Rights Assignement -> Access this computer from network. Check if all necessary users/groups are added here. At least the Administrators group or Administrator should be present.
- Enter Group Policy (gpedit.msc) and select Windows Settings -> Security Settings -> Local Policies -> Security Options -> Network access: Sharing and security model for local accounts. Set this option to Classic – local user authorize as themselves.
- 3. Check if WMI is operational by running the **wbemtest** command. WMI is running if this program can run properly.
- Check if the following services are running: COM+ Event System Remote Access Auto Connection Manager Remote Access Connection Manager Remote Procedure Call (RPC) Remote Procedure Call (RPC) Locator Remote Registry Server Windows Management Instrumentation Windows Management Instrumentation Driver Extensions WMI Performance Adapter Workstation

Memory leaks with outdated Rpcrt4.dll

If monitoring Windows counters, please make sure that you have the latest Rpcrt4.dll installed. All previous versions cause serious memory leaks in the system, which can lead to a system crash. This problem is described by Microsoft at http://support.microsoft.com/?kbid=911262.

System	Version	File size
Windows 2003	5.2.3790.2900	643.072
Windows XP	5.1.2600.2810	582.144

Your Rpcrt4.dll should have the following version (or higher):

Problem of RPC calls and high-numbered ports

By default, a RPC call uses ports from the one-time use range (1024-5000) during assigning ports to RPC application for listening in the TCP end point. Such behavior may limit access to these ports, and cause trouble in operating with nVision Agents. Information on how to configure a RPC call to use secure ports and facilitate port protection can be found at http://support.microsoft.com/kb/908472.

Connecting between different operating systems

You cannot connect to a computer that is running a Starter, Basic, or Home Windows edition.

More information: http://msdn.microsoft.com/en-us/library/windows/desktop/aa389284%28v=vs.85% 29.aspx#failure_to_connect

2.5.3 Monitoring and blockades

2.5.3.1 Monitoring settings

Unlike in nVision 9 (where settings were saved as a set of rules, i.e. in Agent profiles), the latest version of Axence nVision 10 configures the user monitoring and website and application blocking settings on user groups.

It is properties where the Administrator should configure the monitoring options as user accounts inherit their settings. Of course, each user account may be assigned to more than one group. If this is the case, the effective monitoring settings are applied in accordance with the principles described below.

The basic carriers of monitoring settings in the latest version of nVision are: Atlas, User groups, and user account.

■Atlas – default settings

Atlas is the primary object in nVision that contains the essential, global monitoring settings. It means that the user account which does not belong to any of the groups will adopt monitoring settings that are assigned to the Atlas.

Possible configurations:

Monitoring

Setting	Possible values	Default value
Bandwidth usage	monitor/don't monitor	monitor
Visited web pages	monitor/don't monitor	monitor
Application usage	monitor/don't monitor	monitor
Work time	monitor/don't monitor	monitor
Printouts	monitor/don't monitor	monitor
E-mails	monitor/ don't monitor	don't monitor
Send activity over time	monitor/ don't monitor	don't monitor
Activity breaks	monitor/don't monitor	monitor
Save breaks above "X" minutes	minutes	5 minutes

Setting	Possible values	Default value
Monitoring time	At any time / between / except (hours, days of the week)	at any time

Remote access

Setting	Possible values	Default value
Enable desktop preview	enable/don't enable	enable
Enable remote access	enable/don't enable	enable
Show notification	don't notify/notify	don't notify
Ask for user consent	don't ask/ ask	ask
Enable if user does not respond	enable/don't enable	enable

· Displaying Agent

Setting	Possible values	Default value
Show Agent icon	show/ don't show	show
After logging in show information about Agent	show/ don't show	show
Show information about user activity overview	show /don't show	show

By default, the Atlas contains the set of monitoring settings so that each new user is covered by the maximally restrictive monitoring.

User groups

User groups may contain any number of user accounts and sub-groups. If a user group is not a subgroup, then its parent object, from which it inherits settings, is the Atlas.

In the configuration of group (or sub-group) settings, you can only define the settings that are less restrictive exceptions than the parent settings (of the Atlas or group which contains the specific sub-group). For example, the printout monitoring is enabled at the Atlas level. So, at the group level, you can only disable printout monitoring. This approach allows a certain user group to be excluded from monitoring.

Possible exception configurations at the group level:

Monitoring

Setting	Possible values
Bandwidth usage	don't monitor
Visited web pages	don't monitor
Application usage	don't monitor
Work time	don't monitor
Printouts	don't monitor
E-mails	don't monitor
Send activity over time	don't monitor

33

Setting	Possible values
Activity breaks	don't monitor
Monitoring time	The monitoring time can only be set in the Atlas or individually for each user.

Remote access

Setting	Possible values
Enable desktop preview	don't enable
Enable remote access	don't enable
Show notification	notify
Ask for user consent	ask
Enable if user does not respond	don't enable

• Displaying Agent

Setting	Possible values
Show Agent icon	don't show
After logging in show information about Agent	don't show
Show information about user activity overview	don't show

By default, no group contains any exceptions from the parent settings (Atlas).

The exceptions defined for a group are also propagated to all its sub-groups. In no way you can "exclude" a group from the propagation of settings or exceptions from the parent entities.

The exceptions defined for a group affect the settings of all users who belong to it (except for those who have individual settings defined). If a user is in more than one group, all exceptions from all these groups apply to them.

⊞User

The user account can be subject to monitoring settings which are the result of Atlas and group settings, or may use the individual monitoring settings.

The monitoring and usage blockade settings can be configured in the **User info** window that is displayed after double-clicking on the user account name.

The **individual settings** allow the configuration of individual monitoring settings that will apply only to the user account for which they are set, regardless of the global settings and group exceptions.

The **resulting setting** is the global Atlas settings after considering the exceptions from all groups to which the specific user account belongs. If the user account belongs to several groups for which different settings of the same monitoring parameter are configured, the result will be the application of the less restrictive setting (e.g. don't monitor the application usage).

For each of the settings the Administrator can choose the application of the resulting or individual

setting (e.g. the resulting setting will be the working time setting and that assigned individually will be the application usage setting).

The introduction of the new model of monitoring settings allows the application of the intuitive way of aggregating settings which results from the fact that the specific user account belongs to multiple groups (the account will be covered by all exceptions from the groups it belongs to).

A completely new approach to the management of monitoring settings indicates that group settings cannot be used to increase the rights, but only to limit them. This allows the use of the good practice of using Axence nVision 10 – building transparent network monitoring rules.

For example: enabling the work time and application usage monitoring on a global level, and then disabling this setting by way of exceptions at the user group level.

2.5.3.2 Blocking settings

The basic carriers of blocking settings in the latest version of nVision are: Atlas, User groups, and user account.

Unlike the monitoring settings (which have a predefined list of possible settings), the blocking settings are based on defining as many blocking rules as you like.

The Atlas does not contain any default blocking settings unless they have been created as a result of the data migration from nVision 9.

Axence nVision 11		
All users	Axence nVision 11	
d. Herarchy SeGOUPS Axence nVision Second according	Monitoring properties: Atlas	Apert online Wooking Activity today Last application tai tapplication to Last page URL Last
Bartence.local Built-in SMART GROUPS	DATAGUARD	PAGE AND APPLICATION BLOCKING
ag intelektualisci (51) ag Testowa (2)	BLOCKADES	WWW filtering Application blocking Downloaded files
	SETTINGS	Rules for blocking websites
	DEFAULT PERMISSIONS	Rule name Domain/IP Action Effective time Custom rule 110 01 114 mitration rate https://nconu.like
		Facebook * facebook.* Check the operation of rules Inter the wather address to check if it is blocked at the mannent
		Configure the blockede message
		QK Cancel
		on Agents. Check if port 435 is open and if Agent installation path is added to exclusions Bat in advinatione infinite.
		Event Log
Devices: 236 (4 Ok, 2 Warning, 191 Down)	Services: 553 (7 Dk, 545 Down)	Alerta: 1 (Dervice with alerta: 1)

Blocking websites

In nVision 10, the default website blocking action: "Block all websites except for the following ones" has been removed. If the Administrator has not configured any website blocking rules, access to all websites is still possible (nVision behaves as if the default action was always set to "Enable for all websites except for the following ones"). In practice, this means that the website which does not match any of the defined rules is not blocked.

In the program, you can define as many website blocking rules as you like.

Each rule contains its own name, type of action, domain (or IP address) and effective validity time.

- The rule's action is one of the two options: "Allow" or "Block".
- Domain (or IP address) is a pattern to which the visited websites will be matched. In the pattern, you can use the "*" which indicates matching of any string.
- The effective validity time is a time pattern in which you can specify the days of the week or hours within the day.
 - If the validity time has been defined, the rule is ignored outside this time.

If the visited website matches more than one rule, then:

- If all of these rules have the "Block" action set, the website is blocked.
- If at least one of these rules has the "Allow" action set, the website is not blocked.

If the website being visited does not match any rule, it is also not blocked.

Blocking applications

Similarly to website blocking, you can define as many application blocking rules as you like in nVision.

Each rule contains its own name, name of executable file to be blocked and effective validity time.

- For the application blocking rules, you cannot define the "Allow" action (each of these rules always comes with the "Block" action).
- You can also use the "*" in the pattern of the name of the executable file to be blocked.

If the application being run does not match any rule, it is not blocked.

Blocking downloaded file extensions

Similarly to website blocking, you can define as many downloaded file extension blocking rules as you like.

Each rule contains its own name and file extension to be blocked.

- For the downloaded file extension blocking rules, you cannot define the "Allow" action (each of these rules always comes with the "Block" action).
- You cannot also use the "*" in the pattern of file extension to be blocked.
- The downloaded file extension blocking rules do not have the effective validity times (they are valid all the time).

If the extension of the file to be downloaded does not match any rule, it is not blocked.

Inheriting blocking settings

Atlas

Atlas is the primary object in nVision 10 that contains the essential, global blocking settings. It means that the user account which does not belong to any of the groups will adopt monitoring settings that are assigned to the Atlas.

Atlas does not inherit settings from any other entity.

The Atlas does not contain any default blocking settings unless they have been created as a result of the data migration from nVision 9.

User groups

Each user group contains all blocking rules of the Atlas and parent groups it belongs to.

At the group level, you cannot modify in any way the rules inherited from the Atlas or parent groups. You also cannot remove them or exclude from inheritance.

At the group level, you can define as many individual rules to be added to the set of inherited rules as you like.

The individual rules defined in a group are inherited by all descendant groups assigned to it.

User

The user account uses the rules inherited from groups (and the Atlas) and the individual rules. For a single user you can disable inheriting the blocking rules from the Atlas and groups.

If the user has the rule inheritance function **enabled**, the summary collection of the following is applicable to them:

- rules inherited from the Atlas (if the user is not assigned to any group),
- rules inherited from all the groups the user is assigned to,
- individual rules defined at the level of this user.

If the user account is assigned to several groups for which different blocking rules are configured, the resulting blocking rules will be applied.

If the user has the rule inheritance **disabled**, only the individual rules are applicable to them.

Summary

- If any website was blocked globally, you can define the group of users who will have access to it.
- If any website was not blocked globally, you can define the group of users for whom it will be blocked.
- If a user is assigned to a group that has the "Allow" rule set for any website, you cannot override it by the "Block" rule and assign the user to another group.
- The "White List" function ("Block all websites except for the following ones") can still be executed by means of the "Block" rule for the "*" domain.
- If any application or downloaded file extension was blocked globally, you cannot unlock them at the group level.
- If any application or downloaded file extension was not blocked globally, you can define the group of users for whom these entities will be blocked.
- At the user setting level, you can always define an individual set of rules, regardless of the inheritance mechanism operation.

2.5.4 Settings migration (nVision 9 to 10)

2.5.4.1 User accounts

As a result of the data migration from nVision 9 to user accounts synchronized with Active Directory, the activity will be copied from device icons in the older version of the program.

For each Windows local account from nVision 9 Agent which someone logged in to at least once, a user account will be created in nVision 10.

In version 11 of nVision, the rights included in user roles (User, HelpDesk Employee and Administrator) have been restructured into a new system of rights. Please read the <u>chapter</u> which describes these changes in detail.

2.5.4.2 Monitoring settings

The monitoring settings available in Agent profiles in nVision 9 were moved to users and groups in the new version of nVision 10.

Default settings

The default settings are settings that were migrated from nVision 9 and assigned to the Atlas. Determination of the default monitoring settings in nVision 10 comes down to the aggregation of all settings in the Agent profile from nVision 9 that were used by at least one user account, whereas:

- if the selected option was monitored in at least one Agent profile in nVision 9, it is monitored in the default settings after data migration to nVision 10,
- if activity over time was being sent in at least one profile, it is sent in the default settings after migration,
- if breaks in activity were detected in at least one profile, they are also detected after migration,
- the migrated break time in the default settings is the minimum time selected from all existing Agent profiles,
- the monitoring time range in the default settings is the sum of all the time ranges in existing Agent profiles:
 - if time ranges do not overlap, a new range is determined during data migration, starting at the earliest and ending at the latest time from all existing profiles (e.g. the ranges of 8:00 12:00 and 15:00 18:00 will be migrated to the range of 8:00 18:00),
 - special case: if the continuous monitoring time was set for at least one profile, the default setting after migration will also be continuous monitoring,
- if any profile in nVision 9 allowed desktop preview, remote access or bypassing the user's approval for remote access, they will also be allowed in the migrated default settings,
- if any profile in nVision 9 allowed the Agent icon to be displayed, it will also be allowed in the default settings.

Group settings

In the migration process, user groups are created, and they are the carrier of monitoring settings from the existing Agent profiles. Each group contains monitoring settings such that the user belonging to this group is covered by the same monitoring settings as those in the Agent profile in nVision 9.

During data migration, the parent group "Monitoring" is created and includes 3 built-in subgroups:

- Groups from profiles,
- Groups from maps,
- Groups from devices.

The parent group and the built-in subgroups do not contain any built-in settings.

In the built-in subgroups, the user groups will be created and take the names after:

- monitoring profiles used in nVision 9,
- maps if they used individual settings in nVision 9,

• devices if they used individual settings (i.e. did not use the Agent profile or map settings).

Then, the accounts of users that were working on devices in the relevant profiles in nVision 9 will be added to the groups.

Additional information:

- The monitoring time range at the profile (group) level is not migrated. You may not establish
 these ranges at the group level in version 10 of the program. All time ranges from all profiles are
 aggregated into a single global range in the settings.
- None of the users receives individual settings in the migration process.
- As a result of the migration, the effective rights of the user working on more than one computer may be increased. For example, if the user was working on a computer with **enabled** monitoring and on another one where it was **disabled** in nVision 9, after migration the user **will not** be monitored on both computers (because the "Don't monitor" exception will apply to the user on both computers).
- The monitoring and blocking settings in nVision were connected with the device icon and the
 map on which the device was located. Thus, it was possible to define different security policies
 for new users (depending on the computer location). In nVision 10, there is a single set of
 default rights for each new user, therefore the Administrator has to manually create groups with
 rights and assign new users to them each time.

2.5.4.3 Blocking settings

Blocking websites

Default settings

The default settings are settings that were migrated from nVision 9 and assigned to the Atlas. Determination of the default website blocking settings in nVision 10 comes down to the aggregation of all "Block" rules in the Agent profile from nVision 9. Thus, a default set containing all website blocking rules is created.

Group settings

In the migration process, user groups are created, and they are the carrier of website blocking settings.

During data migration, the parent group "Filtering" is created and includes 3 built-in subgroups:

- Groups from profiles,
- Groups from maps,
- Groups from devices.

The parent group and the built-in subgroups do not contain any built-in settings.

In the built-in subgroups, the user groups will be created and take the names after:

- monitoring profiles used in nVision 9,
- maps if they used individual settings in nVision 9,
- devices if they used individual settings (i.e. did not use the Agent profile or map settings).

Then, the accounts of users that were working on devices in the relevant profiles in nVision 9 will be added to the groups.

Method for transferring settings:

- For the Atlas and each of the networks and Agents using the individual website blocking rules, the groups of blocking settings are created and placed in the parent group "Filtering". Users are assigned to the groups (similarly to the transfer of monitoring settings).
- Each group of website blocking settings contains all the filtering rules that were previously assigned to the profile. These rules are set as individual rules for each of the groups.
- For each "Block" rule from the default settings which does not interfere with any individual group rule, the opposite "Allow" rule is created and assigned as an individual rule of the group. This action unlocks the websites that have not been locked so far, but could be locked as a result of the migration.
- After the transfer of settings, the removal of redundant rules in the default settings is performed: the "Block" rules that are included in other rules are removed (e.g. the rule for the "*.pl" domain contains the rule for the "domain.pl" website).

Additional information:

- In the migration process, none of the users receives individual website filtering rules.
- As a result of migration, the user that was working on more than one computer may have less websites blocked.
- If the global settings block the "*" domain and the individual group settings block the "domain.pl" domain only, the "Allow" rule will not be created for the "*" domain at the group level because this would make the "domain.pl" blocking rule ineffective. For this reason, after migration, some of the groups may potentially block more websites than the corresponding profiles in version 9 of the program.

Blocking applications

Default settings

The default settings for blocking application execution are created by aggregating all existing blocking rules from all profiles (similarly to the default website blocking rules).

Group settings

During data migration, the parent group "Blocking" is created and includes 3 built-in subgroups:

- Groups from profiles,
- Groups from maps,
- Groups from devices.

The parent group and the built-in subgroups do not contain any built-in settings.

In the built-in subgroups, the user groups will be created and take the names after:

- monitoring profiles used in nVision 9,
- maps if they used individual settings in nVision 9,
- devices if they used individual settings (i.e. did not use the Agent profile or map settings).

Then, the accounts of users that were working on devices in the relevant profiles in nVision 9 will be added to the groups.

However, these settings will always be ineffective because the default settings will always be as restrictive or even more so. The purpose of this migration is only to find out what these profiles previously contained.

Blocking downloaded file extensions

Default settings

The default settings for blocking downloaded file extensions are created by aggregating all existing rules from all profiles (similarly to the default website blocking rules).

Group settings

Similarly to the migration of the application blocking rules, the settings in profiles are transferred to the corresponding subgroups that were previously created in the parent group "Filtering". These settings are also ineffective and retained for information purposes only.

Additional information:

- The port blocking settings are not migrated to the user as they are interrelated with the device settings in nVision 10.
- Settings from all application blocking profiles and downloaded file extension blocking profiles are merged into one item of the default settings and apply to all users after migration. If you were using various profiles on multiple devices, the manual adjustment of the program configuration will be required after the migration process.

2.5.4.4 Blockade notifications

In nVision 10, for each of the following 4 types of blocking notifications, you can configure **exactly one version** of:

- notification of blocking a website,
- notification of blocking an application,
- notification of blocking a file,
- notification of blocking ports.

Therefore, during the migration process, the number of unique blockade notifications in version 9 will be checked, and the most numerous notification (for each of the 4 types listed above) will be copied to the new version of the system.

To configure blockade notifications:

1. On the ribbon, select the **Tools and Options** page, and then click **Options**.

2. Select the Messages and blockades tab.

2.5.4.5 Screenshots

The screenshots taken at the device level in version 9 of the program will be transferred to the user for whom they were taken.

The device level screenshot collection setting is not migrated. After the migration process, this setting must be enabled manually at the level of each of the users for whom screenshots are to be saved.

By assumption, the screenshot mechanism is temporary and enabled periodically, hence its settings are not migrated.

2.5.4.6 DataGuard settings

Default rights

As a result of the migration of settings from nVision 9, a set of default rights is created by aggregating the rights that have been granted so far to the Agents and to the superior entity of Active Directory (the highest level of "AD trustees") so that it will include the maximally restrictive set of rights. As a result of the aggregation, more restrictive are:

- blocking the carrier,
- enabling the audit of file operations on the carrier.

Setting the maximally restrictive set of rights as the "Default rights" is necessary to ensure the continuity of data protection against data leaks for each new user directly after the migration.

Transferring DataGuard settings:

- The parent group "DataGuard Rules" with no defined custom settings will be created.
- The DataGuard rights assigned to the Atlas in nVision 9 are compared to the default rights in nVision 10. Then, the "Group from Atlas" is created as a subgroup of the "DataGuard Rules" parent group where any rights different from the default rights are assigned. The rights with the same values as those that previously existed in the Atlas are assigned to this group. The assigned rights are the individual rights for this group.
- For each map a group named "Group from map X" is created. It is a subgroup of the Atlas group or the superior map from the previous version of the program. Any rights different from the rights of the superior map group or the Atlas group are assigned to this group as individual rights.
- For each Agent that was using the individual DataGuard rights, the "Group from device X" is created where users working on this Agent in nVision 9 are assigned.
- The account of each non-domain user is placed in groups corresponding to the Agents they
 were working on. If a user was working on more than one computer, they will be assigned to all
 groups corresponding to the Agents they were working on.

The result of the migration is the representation of rights resulting from the structure of Atlas, maps and Agents in nVision 9 by means of a diagram of user groups which is simplified as much as possible. The final structure of nVision 10 only includes the groups that change the rights in any way. The DataGuard rights of domain users are not changed.

Additional information:

- After the migration to nVision 10, more restrictions may be imposed on each new user, even if they are created on an Agent that previously had no blockades in the DataGuard module.
- As the superior entity of "Active Directory" that aggregated rights for all users from AD is deleted, all settings which were defined in it will be lost. The remaining rights of groups and users from Active Directory are in no way modified during the migration process.
- As a result of the migration, it may turn out that users from Active Directory receive higher restrictions. This may be the case when the data carrier in nVision 9 was blocked at the Atlas level and a user from Active Directory had access to it as the additional rule providing access to this carrier was defined in the superior entity of "Active Directory".
- Program in version 10 irretrievably loses the ability to define DataGuard rules at the host level. Thus, it is no longer possible to block and audit users on indicated devices only. Each user always has the same set of rules regardless of the computer they are currently logged on to.

2.5.4.7 Alerts and reports

Alerts

Alerts are in no way processed during the migration. Like in nVision 9, you can also configure alerts at the device icon level in nVision 10. Alerts created in nVision 9 will be transferred in the same form to device objects in the new version.

Reports

As a result of the data migration to nVision 10, the reports with information on user activity from specific maps or on indicated devices will be lost. Templates for these reports will still be available

in the system, but a report generated by means of them will be empty. This is due to the fact that the user activity segments were moved to the section of reports generated for groups.

Therefore, before the migration process is started, the required reports for maps and devices using the existing templates should be drawn up, and then the report templates in the context of groups after the migration should be reconstructed manually.

2.5.4.8 Downgrade to nVision 9

Running the Axence nVision 10 installer will automatically backup the nVision 9 database. The backup copy contains program settings as well as data collected in monitoring.

To restore the data from nVision 9:

- If the installation of nVision 10 (or the migration process) is not successful and the Server does not start in the new version, the Agents will not be upgraded. If this is the case:
 - $\circ~$ stop the "Axence nVision" service,
 - $\circ~$ delete the nVision.exe file from the program installation path on the server,
 - o download the nVision 9 installer (https://cdn.axence.net/nVision9.zip),
 - \circ install the program,
 - restore the database backup copy by launching the **DBRestore** tool (by default: C:\Program Files (x86)\Axence\nVision\Backups).
- If upgrade to nVision 10 is successful and the program starts, the Agents that connected to the server will be automatically upgraded to the latest version.

In this situation, to make a full downgrade to nVision 9:

- uninstall Agents (e.g. by running the relevant command from the context menu in the nVision console 10),
- \circ disable the nVision console,
- stop the "Axence nVision" service,
- o delete the nVision.exe file from the program installation path on the server,
- o download the nVision 9 installer (https://cdn.axence.net/nVision9.zip),
- o install the program,
- restore the database backup copy by launching the **DBRestore** tool (by default: C:\Program Files (x86)\Axence\nVision\Backups),
- re-install Agents from the installer copied from the folder specified after clicking in the nVision console: [menu] Agents / Install nVision Agents.

2.5.5 Main program settings

To change program options:

- 1. On the ribbon, select the Main page, and then click Options.
- 2. Select the desired tab.
- 3. Edit properties according to the description below.

						Open martTime			
All devices (Atlas)	Device								
NETWORKS	Status Type Name Info								
	v Options				×				
DEPARTMENTS	GENERAL	GENERAL							
		Manage the basic settings of the pr	ogram						
	MONITORING	Additional information in atlas tree	Show device states						
			Show alerts						
	to ACTIONS	Program icon on system tray	Show always						
	SERVICE CONFIGURATION	Program icon on system tray	 Show only when there were un 	resolved along					
	WA SERVICE CONFIGURATION		 Show only when program wind 						
	3 MAINTENANCE								
		Minimization of the console	Minimizing moves the applica	tion icon to the tray					
	BLOCKADE MESSAGES	Logout from nVision	Log out of nVision after 5	minutes of inactivity					
	USER ACTIVITY	Configure automatic updates for Ax	ence nVision						
		Automatic updates is currently:	~						
	INVENTORY	Check for updates:	Daily + at 02:00 +						
	HELPDESK								
				Qk Gano	el l				

Tab	Options	Description				
	Additional	Additional icons that are displayed in the map tree, next to the map name. Possible settings:				
	information in the	 host states, 				
	tree	• alerts,				
		both or nothing.				
		• always,				
	Program icon on system tray	 only on unresolved alerts, 				
General	.,,	 only when minimized. 				
	Minimize console	Determines whether minimization moves the application icon to the tray.				
	Log out of nVision	Logging out of nVision after the inactivity time as set in this option.				
	Automatic updates	At this tab, you can enable automatic updates and change interval of checking for new versions of nVision.				
• Monitoring	Services	The list of TCP services that will be scanned on each host by Axence nVision®. If you would like any service to be discovered automatically by nVision, you have to add this service to this list.				
	Discover services on every interface	Check this option to scan for services on all the host addresses/interfaces. If unchecked, services will be scanned on the primary address only.				

Tab	Options	Description				
	Resolve addresses every X minutes	Time interval according to which nVision resolves IP addresses =>DNS.				
	Maximum concurrent incoming Agent	This parameter determines how many Agents can send information at the same time, e.g. about user activity.				
	connections	Note: use lower values if you encounter too high bandwidth usage.				
for Actions	Some actions require being setup to function correctly, for example sendin an ICQ message requires a UIN/password to login to the ICQ server. For a description of each action setup refer to <u>Setting up actions topic</u>					
	Web Access, see <u>Ho</u>	Web Access can be enabled in this tab. If you want to learn more about Web Access, see <u>How to get access to nVision via Web browser?</u> [622] and <u>How to create Web Access user accounts?</u> [623].				
	•	In this tab, you can also change API server settings for access from mobile applications. If you want to learn more, see Mobile application topic.				
	WebAccess console	Define the port number for access via Web browser $\overline{622}$.				
Setting up services	HelpDesk	Define the port number for the port on which HelpDesk will be running. To enable encrypted communication in HelpDesk, you must install a certificate for the domain 352.				
	SmartTime	Define the port number for the port on which SmartTime will be running.				
	API Server	Define the port number for the Mobile Fixed Assets application for Android.				
	Clean-up all data in database	Set the number of days after which the old data (of specific type) are removed from the database.				
Some maintenance	Backup	Automatic backup profiles are managed in this tab. To learn more, see <u>Automatic backup</u> [532]. In addition to program setup, backup also includes the data collected in network monitoring, inventory data and HelpDesk module data.				
	Restart nVision if not responding for X minutes	Axence nVision® is a very stable program, but we understand that it may be used to monitor critical assets. Therefore, it has a failover feature that will automatically restart the program in case of any problems to ensure continuous network monitoring.				

Tab	Options	Description				
		Check this option and set the time in minutes if you want Axence nVision® to restart if not responding.				
Blockade	In this tab, you can s case of an attempt to	setup your own messages that will be displayed in the o:				
messages	• access a blocked	website,				
	 run a blocked appl 	ication,				
	 make an operation 	 make an operation on external carrier in DataGuard, 				
	 download a file with 	h locked extension by the browser.				
	Applications	Defines groups of applications. You can create, edit and delete groups. The name of the application's executable file is compared to the name of file run by the process user. They are used in the user activity monitoring module (Users).				
And an an ar	Local networks	Defines addressing of local networks. A list of proxy ports separated with commas. They are used in the user activity monitoring module (Users) for monitoring of bandwidth usage and appropriate classification of network traffic (LAN/Internet traffic).				
User activity	Protocol patterns	Defines groups of protocol patterns – they are used in the user activity monitoring module (Users) for monitoring of bandwidth usage. You can create, edit and delete groups. The packet will be included in the selected group if it meets at least one of the criteria: application's executable file name or ports on which it is running.				
	Domains	Defines groups of visited webpages. You can create, edit and delete groups.				
Inventory	This tab presents a list of directories that are not scanned during inventory monitoring. You can create, edit and delete entries. In this tab, you can also create the categories of file extensions that will be detected by Agents.					
0	This tab enables the tickets processing	management of HelpDesk's <u>core settings</u> ाउउँ। and ो options.				
HelpDesk	Remember to configure also the HelpDesk port in the Remote Web access tab of nVision.					

2.5.6 Information for advanced users

The following functions are recommended for advanced users only.

Agent service calls from the browser

In all of the following calls substitute *_IP with the IP address of the machine on which the nVision Server or Agent is installed.

1. Checking information on the active Server:

http://SERVERS IP:4434

2. Checking information on the active Agent (checking the Machine GUID):

http://AGENTS IP:4433

3. Checking information of the active Atlases:

http://AGENTS_IP:4433/atlases

4. Downloading Agent setup file:

http://SERVERS IP:4436/nVAgentInstall.exe

5. Downloading Remote Console setup file:

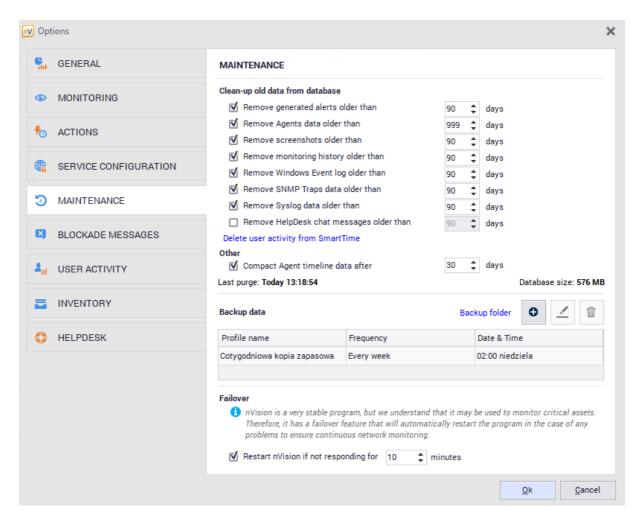
http://SERVERS_IP:4436/nVisionSetup.exe

2.6 nVision performance

In case of a large number of Agents that send their data to nVision, perform the following actions to obtain high performance.

More than 250 Agents

- 1. Navigate to the main program configuration and click the Maintenance tab.
- 2. Enable the Compact Agent timeline data after option.



More than 1000 Agents

- 1. Navigate to the Settings window for the Atlas or group or to the User info window.
- 2. In the Settings window, change the Send timelines data to Don't monitor.

2.7 "Report a problem" function

Axence nVision® 10 offers simplified problem reporting, available by using the **Axence nVision / Report a problem** option in the menu bar. The purpose of the function is provide the Administrator with an easy way to report any observed issues or faults in the software operation.

In order for the function to work, the machine needs to have an active connection with the installed Axence nVision® Server with the Internet.

To report a problem:

- 1. Click the About nVision page in the menu bar and then the Report a problem link.
- 2. In the new Report a problem dialog box, fill in a brief form:

M Atence nVision 11					
\odot					
		Axence nVision 11		×	
Information Close application		Report probler	n		
			have encountered in a few words.		
	License License for Alfordag I (mindag mathazarygiazense net) Arence Buppot - Module. Hetropic, investory, Licen, HelpCas, Databased, SmartTime Famber of Boomed Agents, 40 (and 2) Change Boome Technical Support Gront a generater (18 2020-12-31 Coder hai Agent proferer 🛋	• E-mail address: • First name: • Last name: • Organization: Phone number: • Organization: • Organizat	1 Axence		

- 3. Checking the I agree to attach the compressed "Logs" folder from Axence nVision® installation path field will add an attachment with a cleaned and compressed (2MB) archive of the nVision Server log folder (by default: C:\Program Files (x86)\Axence\nVision\Logs). Sending the software runtime logs facilitates the problem analysis and shortens the report processing time.
- 4. When the Report a problem button is clicked, the message is sent to: pomoc@axence.net.

The first response from a Technical Support Employee is sent within a few hours and not later than on the next working day (in the case of problems requiring a thorough log analysis, the time can be longer).

The administrator can check the ticket status by logging into <u>https://service.axence.net/hc/en-us/requests</u> portal with the e-mail address given in the **Report a problem** form. The link for the password setup is sent automatically to the specified e-mail address after the ticket is created. The password can also be reset manually with use of the form available at: <u>https://axence.zendesk.com/auth/v2/login/password_reset</u>.

2.8 GSM device configuration

nVision enables an admin alert notification to be defined by means of SMS messages.

Sending notifications via SMS is a convenient way of informing in case of occurrence of predefined events [595], such as significant change in the website content (attack suspected), files copied to the mobile device, or hardware resources changed. Messages can be sent via mobile phones connected via USB, COM and cable driver and the GSM modem (usually also connected via USB). It is easy, because many operators provide long-term SIM cards.

Important: operators do not guarantee immediate delivery of SMS. In the case of critical notifications do not rely on SMS text messages or e-mails.

Tested devices

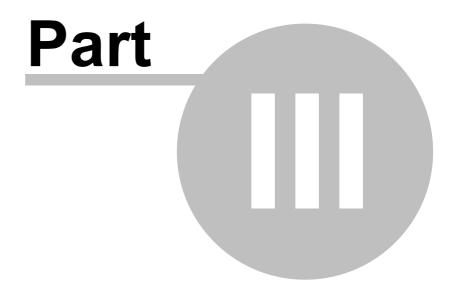
The following common telephones and modems were tested for cooperation with the software:

- Falcom: Twist, Swift, Samba 55, Samba 75,
- iTegno: WM1080A, WM1080A1I, WM1080A1E, 3000, 3232E, 3232I, 3898,
- Multitech: MTCBA-G-UF1, MTCBA-G-UF2,
- Nokia: N30, N32, 6100, 6210, 6220, 6310, 6310i, 6820 (Bluetooth), 8910,
- Siemens: TC35, TC35i, TC45, TC65, MC35, MC35i, MC45, MC55, MC65, MC75, A65, AC75, AC45, C35, C45, M35, M45, S35,
- SIMCOM: SIM100S, SIM100T,
- Sony Ericsson: T310, T610, T630, T68, T68i, K310, K320, K500, K510, K600, K700, K750i, K800i, V800, W300, W550, W600, W700, W800i, W810, W900, Z1010, GC75, GC79, GC83, GC85, GC89,
- Teltonika: T-ModemUSB, T-ModemCOM,
- Wavecom: Fastrack M1206B, Fastrack M1306B, Integra, WMOi3.

In addition to the models listed above, all USB modems should function properly.

Note: GSM device needs to be configured using software provided by its manufacturer (especially SIMcard's PIN needs to be entered).

If you want to learn more about notification actions, go to Defining action properties with topic.



3 Network discovery and monitoring

3.1 Introduction

Requirements and planning

Please read the <u>Requirements and configuration</u> 20 topics before you start monitoring your network. These topics describe how to configure hosts and nVision to get all the information you need.

Discovering the network

nVision has a built-in very advanced automatic network scanner allowing you to not only discover all hosts in your network, but also it can discover all routers and go through them to scan all neighboring networks. It discovers all hosts and services running on them, like: HTTP, FTP, mail, database servers, etc.

You can add as many networks to the Atlas as you need. When adding a network, it will be scanned for hosts so first you have to go through the network discovery wizard to define scanning options.

When the discovery process is finished, the program will create a network map or a set of maps for all discovered IP networks. The networks will be created as a tree. This tree shows network dependencies between them.

For more information about network discovery refer to Discovering the network 53 topic.

Monitoring hosts

nVision can monitor network services, system and SNMP counters. It not only monitors them, but also logs all the information and allows viewing historical data for reporting purposes.

For more information about network monitoring refer to Monitoring 57 topic.

Host status

Host status in nVision is such an important idea that we dedicated it separate topic for it: <u>Host status</u> <u>concept</u> $\overline{52}$. You should definitely read it to fully understand how nVision presents host status.

3.2 Host status concept

Host status as calculated value

Unlike in other similar products, host status in nVision can be changed by events. You can define conditions when a host is considered to have a status <Unknown>, <Up>, <Down> or <Warning>. Of course, host status changes also automatically to reflect the status of services.

Automatic host status changes

Host status is initially set to <Unknown>. It changes when nVision starts to monitor services. After the first service is determined to be running, status changes to <Up>. The status is <Warning> when one or more services are down, but there is still at least one responding service. The host status changes to <Down> when every service is down i.e. not responding.

Host status changed by event

It is very important to understand that nVision also determines the host status according to currently raised events. For this purpose you can define the **Change host status to** field of each event. When an event for a host is raised, then host status may change according to the host status value defined in this event.

There are three host status values that you can define in this field: <No change>, <Warning> and <Down>. Status <Down> has the biggest priority, which means that if there is at least one event raised with such status, then the host status also becomes <Down> (no matter the status of services). If there are several events with <Warning> and <Down> status raised, then the host status will also be <Down>. If there are only a few events raised with <Warning> status, then the host status becomes <Warning> (unless it is already <Down> due to all services being down - then the status remains <Down>).

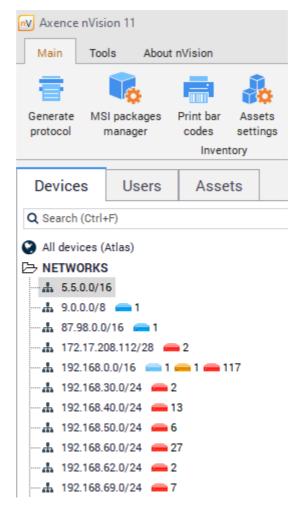
3.3 Discovering the network

3.3.1 Discovering the network

You can add as many networks to the Atlas as you need. When adding a network, it will be scanned for hosts so first you have to go through the network discovery wizard to define scanning options.

- Click the **Discover new network** option (on the **Tools** tab). The Scan network wizard will open. This wizard will help you to scan your network, discover all hosts and create maps of your network.
- 2. Follow the screens of the wizard. For a description of all options available in it, refer to <u>Network</u> <u>discovery wizard</u> stopic.

When the discovery process is finished, the program will create a network map or a set of maps for the discovered network. The networks will be created as a tree. This tree shows network dependencies between them - the networks created as children are networks connected to the parent map. Let's see the following example:



As you can see, the network 192.168.0.0 is a child of the network 172.17.208.112. It means that those networks are connected through a router. nVision discovers all routers and connected networks, which allows you to see the network logical structure.

nVision can also discover hosts automatically by selecting the **Discover a new host** option from the map context menu. This process can be carried out periodically.

- 1. Select the map on which you want to enable the automatic discovery.
- 2. Open the **Map properties** window and select the **Automatic discovery** tab, which allows the discovery process to be configured and started. This tab also shows the current status and progress on the status bar.
- 3. Select the **Periodically discover new hosts** option.
- 4. Configure the frequency and time of discovery.
- 5. You can also start the discovery by clicking the **Discover now** button.

NV Axence nVision 11		×
Map properties: 9.0.0.0/8		
GENERAL	DISCOVERY OF NEW DEVICES	Discover now
AUTO DISCOVERY	 Periodically discover new devices daily every 60 min(s). Scanning method: ICMP (Ping) Local ARP SNMP Test the following SNMP credentials: Vertical SNMP credentials 	Scanning progress Status: - Scanned devices: 0 New devices found: 0
	Tools	
Agent profile Background	Ignored addresses Setup credentials	<u>Ok</u> <u>Cancel</u>

3.3.2 Network discovery wizard

The network discovery wizard helps you to define all options required to properly scan a new network. This wizard opens when you want to add a new network or when you are creating a new Atlas.

New network scan options

They allow you to define which network will be scanned and how.

Property	Description
Address	Enter the IP/DNS address of the host located in the network you want to scan. The program automatically enters the local address, which you can leave unchanged if you want to scan your local network.
Mask	The network mask. In most cases you need not to change this field which defaults to "255.255.255.0". If changed it can result in a very long discovery time.
Scan all subnets	Check if you have a router in your network and also want to scan neighboring networks behind this router.

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Property	Description
	nVision can scan not only the network you entered, but it can also go "through" routers in this network and scan all connected networks. This function works if the router is SNMP manageable and you will provide (or already provided) the SNMP community. The program will read the routing table from the router and try to scan all networks connected to this router.
Set scan limit for routers/jumps to	Allows you to limit the number or hops (routers) while scanning.
lf possible, determine dependencies between devices	This feature allows for the limiting of the alerts from devices behind the router. If the router is inactive, the devices behind it will not be monitored.
Axence nVision 11	
Main Tools About n	Vision
user group device	Image: Server devices Image: Server devices <td< td=""></td<>
Devices Users	Assets 9.0.0.0/8 Map (1) List (1) Agents (0
Q. Search (Ctrl+F)	🕨 🖌 🎞 🖬 A 🗹 Properties Q G
All devices (Atlas)	
Axence nVision 11	
Retwork	k scanning

Network scanning
Network address/mask: 192.168.0.108
Scan all subnets
Set scan limit for routers/jumps to: 1
☑ If possible, determine dependencies between devices
This function allows you to suppress alerts from devices behind the router. If the router does not work, the machine behind it will not be monitored.
Start scanning Cancel

Click **Scan**. This will start the discovery process. You will be able to see the discovery progress. You can stop the network discovery anytime. If you stop it before it finishes scanning the network, you will still be able to add the networks and hosts discovered so far.

When the discovery process is finished, you will see a message specifying the number of hosts/networks discovered. Click the **OK** button to close the scanner window and add all discovered hosts and networks to the Atlas.

3.3.3 Adding a new host

For instructions on how to add a new host, refer to Managing hosts 103 topic.

3.4 Monitoring

3.4.1 Introduction to monitoring

What can be monitored?

nVision can monitor the following:

Host status

This is monitored for every host and it allows you to get reports about each host availability over time.

• Services

- Availability: in case the service stops responding nVision will present such information on the map and can raise an alert.
- Performance: response time and percent of packets lost. You can monitor any TCP/UDP service. There is a large predefined list of available services including MS SQL Server, Oracle, Notes/Domino, etc.

Mail and web servers

Specific service tests: nVision has several built-in probes that can check the performance of several high level features of service. It includes probes such as:

- Web page load time measures the time of loading a specific web page.
- Web page contents change checks for any change of web page contents.
- POP3 Login time measures the time it takes to successfully login to a POP3 server.
- SMTP send time measures the time it takes to successfully send an e-mail with an SMTP server.

• Routers and switches (MRTG)

- Network interfaces: status and in/out network traffic.
- Switch ports: the information about every port status, MAC and IP of computers connected to any port and their total network in/out traffic.
- Host network traffic: the network traffic generated by a network device (monitoring RMON with SNMP)

• Performance counters

- o SNMP: you can monitor any SNMP counter that returns numeric values.
- Windows: nVision allows monitoring Windows counters, which helps to monitor system performance itself and also the performance of applications running on it. So you can monitor counters of such services like MS SQL Server, Exchange server, etc.

Visualization

nVision has the ability to present all the monitored parameters (both for services and counters) on clear charts. Not only you get the reports of the values over time, but you can watch them in real-time also.

Monitoring time

When you setup the monitoring time in the host properties, it does not mean that the services and counters will be monitored exactly every such period. When nVision has to monitor a large network with many hosts, the monitoring interval may increase because nVision can send only a specific number of requests per second. Consequently, host monitoring time is just the shortest time that can be used for monitoring services and counters. In case of several number of hosts this time may increase significantly.

How monitoring data is handled

nVision collects all monitoring data in the program's memory first. This information is gathered in the form of consecutive probes stored at the time of each poll. You can see all of those probes on the 15-minute chart only. After all gathered data exceeds the limit of allocated memory then the oldest probe is removed every time a new one is added.

Monitoring information is saved to the database in 1-minute averages. Therefore, when viewing performance charts for long intervals you can see those data with a 1-minute resolution at best. nVision does not save all probe values because the program is designed to monitor large networks. In such networks with many hosts, the amount of data gathered every day is significant and it would be not possible to process it in reasonable time. It would also fill up even a very large hard drive very fast.

3.4.2 Concepts

Service scanner and monitor

After discovering all hosts in your network, nVision scans for services running on them. It scans only a sub range of all available services. To read how to select services to be scanned, refer to <u>Program</u> <u>Options</u>[43] topic.

Service scanner not only checks if a service port is open. It also sends a specific request and checks if a response matches predefined criteria. If so, the service is being added to the host and nVision starts to monitor it.

The service monitor uses a similar mechanism as the service scanner: it sends specific requests to the TCP/UDP port (service) and logs the response time and percent of requests (packets) lost. It also checks if the received response matches specific criteria.

Counter monitor

You can also monitor several types of counters with nVision. The table below lists available counters:

Counter type	Description
Host status	Indicates host status for every minute. Allows reporting of hosts availability.
SNMP	SNMP counters are provided by SNMP protocol available on routers and most servers. They allow the information such as network transfer, number of users, CPU utilization, etc. to be monitored.
Windows	nVision can monitor all Windows counters including those provided by non-system applications like MS SQL Server or Ex- change Server.
Page load time	Measures the loading time of a specific web page.
Page content change	Indicates selected web page changes.
POP3 login time	Checks the time to login to the POP3 server.
SMTP send time	Measures the time required to send an e-mail.

Host status

Unlike in other similar products, host status in NVision is a calculated value, not a hard coded one. So you can define conditions when a host is considered to have status <Up>, <Down> and <Warning>. For more information about host status refer to Host status concept [52] topic.

3.4.3 Monitoring services

3.4.3.1 Service discovery and monitoring

How services are detected and monitored

nVision monitors UDP/TCP services based on a predefined set of rules. It not only checks if the specific port is open, but sends a request and waits for a response. Then, the response is examined to meet specific criteria. Only those services where a response is valid are considered as properly functioning services. The same mechanism is used to discover services running on hosts. It ensures that services are not mistakenly discovered when any service is running on the port supposed to be for another one. For example if FTP would be running on port 80, nVision will not discover service HTTP, as the response is not valid as an HTTP response.

Service down

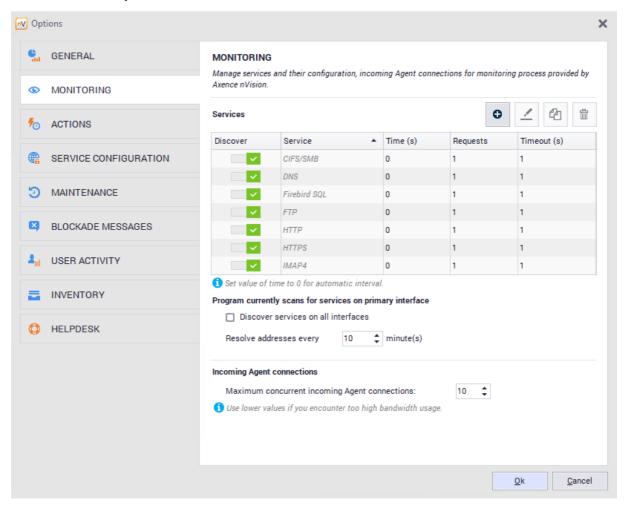
After a service stops responding, then it gets the status <Down>. You can see that as a red colorized icon in the service grid (available on the **Services** tab in the **Host Info** window).

Leading service

There is always one **leading** service for each host. This service is indicated by bold font in the service grid located in the **Host info** window. The **leading** service is the most important service of the host. Its response time can be presented on the host icon.

How to monitor hosts and services?

After discovering hosts in your network, nVision automatically scans for the most important services running on them. So, there is no need to take any further actions in addition to discovering the network to begin monitoring of hosts and their services. However, you can add a new service manually or by calling the service discovery tool.



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Adding services

To add a new service to the default list of monitored services:

- 1. Go to nVision settings located on main toolbar. Navigate to the **Monitoring** tab.
- 2. If you want to add a service, click the add button and select the service that is to be monitored from the list. To manage the service definitions, click the **Manage services** button.

Services on hosts

A list of monitored services including charts that represent the response time and percent of packets/requests lost is available in the <u>Host status</u> and window.

For more information about services refer to Managing hosts 103 topic.

3.4.3.2 Managing monitored services

This topic provides more information on how to manage service monitoring.

HOpening host info window in the Services tab

With this window you can list, modify, create and remove monitored services. It not only lists all Services, but also presents charts, where you can review the service response time value over time. Charts can present the service monitoring information in real-time.

- 1. Double-click the host icon or select Host info from its context menu.
- 2. Select Performance / Services tab.

HAdding a new service to the monitor or modifying existing one

- 1. Open Host info window on the Performance / Services tab.
- Click the add icon (located on the right-bottom side of the services grid) to add a new service or select the existing service and click the edit icon to modify service properties. The Service properties window will open.
- 3. Now you have to configure the options. This is described in detail in the following table.

Property	Description
Service to monitor	
Name	Select the service you want to monitor.
	This field cannot be changed when editing the existing service. To start monitoring another service, you have to create it.
On interface/IP	Select the address on which this service will be monitored.
Monitoring parameters	
Monitoring time	After selecting Auto , nVision will control the monitoring interval to ensure frequent polls (based on the number of

Property	Description
	monitored hosts). If you want to set this to any specific value, then select Set and enter this value in the edit box.
Requests	This is the number of requests sent on each poll. For all TCP services this value should be set to 1, as the protocol has its own mechanism to prevent lost requests (TCP services have their own mechanism to repeat lost requests, so it usually does not make sense to enter a higher value). For ICMP and UDP based services, you should set it to 2-3 to ensure that one incidentally lost packet will not trigger false alerts.
Timeout	The time to wait for a response. If not received by that time, a request is considered lost. For ICMP and UDP services value of 1000 - 2000 ms will be usually sufficient. For TCP services, because of their nature, you should enter much higher values of 15 000 - 30 000 ms.

Deleting a service

- 1. Open Host info window on the Performance / Services tab.
- 2. Select a service to delete.
- 3. Click the dustbin icon to delete the service.

ERediscovering host services

- 1. Open Host info window on the Performance / Services tab.
- 2. Click the **Discover again** option.

nVision will start scanning for new services on all interfaces/addresses of the host. When finished, new services will be added to the list and monitoring of the new services will start.

∃Selecting a leading service

For information about the leading service refer to the Monitoring services [59] topic.

- 1. Open Host info window on the Performance / Services tab.
- 2. Select a service and select **Set as leading** from its context menu. The leading service is indicated by bold font.

3.4.3.3 Setting-up alert for services

If you would like to be notified when any service experiences any problems then you need to create an alert. This topic describes all the necessary steps that are required to do that.

- 1. Click the Alerts icon located on the Main page ribbon to open the alerts window.
- Click the Add alert icon located on the main toolbar to create a new alert. The alert properties window will open. With this window you will create an event that will trigger the alert and add actions to be executed when the alert is raised.

3. Click the **New** button located on the right side of the event combo box. This will allow you to create an event.

For services you should select the **Service down** or the **Service performance** event type. Create an event according to the information in the Event properties [599] topic.

4. Click the add icon and define the action to be executed when an alert is raised. You can select any existing action or also create a new action. To create a new action, click the New button located on the right side of the action combo box. Create an action according to the information in the <u>Action</u> properties with topic.

3.4.3.4 Monitoring Windows services

nVision can monitor Windows services. In case of any problem with any service (i.e. service going down) you can configure an alert action that may start or restart the service. Service monitoring is performed with WMI or by Agents.

In order to monitor by WMI, you have to properly configure credentials in the host properties window. Also WMI has to be enabled on the remote host. Please refer to <u>Requirements and configuration</u> [28] topic for more information.

To monitor Windows services without opening remote access to WMI, install Agents 117.

To turn Windows service monitoring on:

- 1. Open the Host properties window 84.
- 2. Select the **Windows** tab.
- 3. Navigate to the **Windows services** window, click the **Configure login credentials** link and enter the details of the administrator account on the remote host.

🍂 Device: dns9.quad9.net, 9.9.9.9			
DNS9.QUAD9.NET		Akence nVision Agent Install DNS ●	
	Device properties: dns9.quad9.net, 9.9.9.9		
	Windows login credentials		
	System credentials: Default Windows credentials v Edit v		
	Username: (i)		
	Password: Iest credentials		
	These credentials will be used to log in so as to monitor system counters, windows services and Windows Event Log. These credentials are not needed for Agenta' computers.		
	Manage credentials Apply Qk Gancel		
	Manage credentals <u>Andry Dk Cancel</u>		

3.4.4 Monitoring device and system performance

3.4.4.1 Performance counters and host status

nVision can monitor several types of performance counters and host status.

Host status

This is a built in counter which monitors and logs the host status. This counter is logged every minute so you could track host availability over time.

Windows and SNMP counters

nVision can monitor Windows counters using WMI or Agents. The counters can be used to monitor Windows system performance, application performance (MS Exchange, IIS, SQL etc.), switches and routers (network traffic, errors, etc.), etc.

Specific service test (mail and web server monitoring)

This is a group of counters designed to monitor mail and web servers. For more information please refer to the Monitoring mail and web server feel topic.

3.4.4.2 Counter types

There are several general groups of counters. The following list describes the Host availability and Counter groups. For more information about the Specific service test group, please refer to the Monitoring mail and web server [68] topic.

Host availability	
Host status	This counter stores the host status for reporting purposes. It is a built-in counter and cannot be removed.
Counters	
SNMP counter	You can measure any SNMP counter with a numeric value format. The program may also read the whole table column and log min/max/avg/sum of its cell values.
Windows counter	You can measure any Windows counter with numeric value format. Windows provides system and application counters. So it allows monitoring the system itself as well as programs like SQL Server or Exchange Server.

Host specific counters

Some events have all the information required to check them already defined, including host address. Such events are called host specific. In general, all events of the **Specific service test** type are host specific.

3.4.4.3 Managing performance counters

This topic provides more information on how to manage performance counters.

HOpening Host info window on the Performance counters tab

With this window you can list, modify, create and remove counters. It not only lists all counters, but also presents charts where you can review the counter value over time.

- 1. Double-click the host icon or select the Host info from its context menu.
- 2. Select the Performance / Performance counters tab.

⊞Creating a new counter or modifying an existing one

1. Open the Host info window on the Performance / Performance counters tab.

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- Click the add icon located on the right-bottom side of the counter grid to add a new counter or select the existing counter and click the edit icon to modify its properties. The **Counter properties** window will open.
- 3. If you are creating a new counter, then select the counter type on the list and click the **Next** button. To find out about counter types, refer to the <u>Counter types</u> of topic.
- 4. Configure the counter options (depending on the counter type you selected). This is described in details in the <u>Defining counter properties</u> feel topic.
- 5. Click the Finish button.

Deleting a counter

- 1. Open the Host info window on the Performance / Performance counters tab.
- 2. Select a counter to delete.
- 3. Click the delete icon to delete the counter.

3.4.4.4 Setting-up alert for performance counter

This topic describes how to setup an alert to be triggered when a performance counter value goes out of range. For example, let's assume you would like to create an alert, which will notify you when a mail queue on any of your MS Exchange servers is too big. You will need such a counter on every host running Exchange server and the event defined to trigger an alert. nVision provides a tool to easily define an alert and automatically create the necessary counters on each host running MS Exchange.

- 1. Click the **Alerts** icon located on the **Main** page ribbon to open the alerts window.
- Click the Add alert icon located on the main toolbar to create a new alert. The alert properties window will open. With this window you will create an event that will trigger the alert and add actions to be executed when the alert is raised.
- 3. Click the **New** button located on the right side of the event combo box. This will allow you to create an event.

For counters you should select one of the **Specific service tests** or **Counters** event type. Create an event according to the information in the Event properties [599] topic.

4. Click the add icon and define the action to be executed when an alert is raised. You can select any existing action or also create a new action. To create a new action, click the **New** button located on the right side of the action combo box.

Create an action according to the information in the <u>Action properties</u> topic.

3.4.4.5 Creating a counter on many hosts at once

In many cases it is necessary to create the same counter on several hosts. You can do that using the automatic counter creation mechanism. It allows creating the same Windows or SNMP counter on many hosts.

It can also create it only on those hosts that support such counter by testing if it is present on the remote machine.

1. Select **Create a counter for a group of hosts** from the **Tools and options** page on the ribbon. The **Counter definition wizard** will open.

2. Select Windows or SNMP.

- 3. Select the counter and enter monitoring time.
- 4. Select **All** to create the counter on all hosts or select **Selected** to select hosts. Select hosts in the grid using Ctrl + Click and Shift + Click.
- 5. Check **Create only if the host supports the counter** if you want nVision to verify if the counter is present on the remote host before creating it. With this tool you can quickly create many counters only on hosts that have this counter.

Counter patterns

There is also a second option that allows you to easily set the same counter on different devices. For this purpose, we can use the so-called counter patterns. All created counters form a list of counters that can be used multiple times. Counter patterns can be added only on devices that support the given counter - the program will check if it is available on the remote device.

To use a counter pattern you have to:

- 1. Open the appropriate computer settings window.
- 2. Click on the **Performance** section.
- 3. Click on the Counters tab and then click on the "X" icon
- 4. In the window for adding a counter, click the **Duplicate existing counter** option, and then select an appropriate counter pattern from the list.
- 5. Click the Next button, and then click the Finish button.
- 6. After completing the above steps, the selected counter will be added to your computer.

3.4.4.6 Defining counter properties

This topic describes properties of different counter types from the Counters group.

Windows threshold

Property	Description
Name	The name that will be displayed on the list.
Counter	The counter to be monitored. To choose the counter, click the icon and select the appropriate class, counter and instance. You may need to setup credentials first so nVision could connect with the remote host and read the counter list.

Property	Description
Monitoring interval	After selecting Auto , nVision will control the monitoring interval to ensure frequent polls (based on the number of monitored hosts). If you want to set this to any specific value, then select Set and enter this value in the edit box.

Notes

- nVision will try to login to the remote host using the credentials defined in host properties.
- Windows counters are not monitored if the host is <Down>.

SNMP threshold

Property	Description
Name	The name that will be displayed on the list.
Choose SNMP counter	The counter to be monitored. To choose the counter, click the icon and select the appropriate SNMP counter. It is possible to read the whole table column and log min/max/avg/sum of its cell values. You may need to setup the SNMP read community first so nVision could connect with the remote host and read the counter list.
Enter SNMP counter OID	The counter to be monitored. When entering OID manually, you are responsible to provide a correct value. If this OID is not valid then the counter will not read any value.
Absolute	The program will store the value that has been read.
Average per second, unit	Based on the consecutive counter values, nVision will calculate the rate per second and store this value. This is a good option if you monitor the number of bytes sent/received and you want to monitor bandwidth usage. You can also select the units in which this value will be stored.
Monitoring interval	After selecting Auto , nVision will control the monitoring interval to ensure frequent polls (based on the number of monitored hosts). If you want to set this to any specific value, then select Set and enter this value in the edit box.
Notos	

Notes

- nVision will try to login to the remote host using the credentials defined in host properties.
- Windows counters are not monitored if the host is <Down>.

3.4.5 Monitoring mail and web server

3.4.5.1 Mail and web server monitoring counters

nVision has several special counters designed to monitor mail and web servers. These counters not only connect to the server, but also perform some test to ensure proper server operation: test the page load time and content, list incoming e-mails and try to send a test e-mail. To perform such test operations, you have to create the appropriate counter on the **Performance counters** tab in the **Host info** window. For more information about counter (test) types and operations performed, refer to the <u>Counter types</u> of topic. For information about creating counters refer to the <u>Managing performance counters</u> of topic.

3.4.5.2 Counter types

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The following list describes only Specific service test group responsible for mail and web server testing. For information about other groups (Host availability and Counters) please refer to the <u>Monitoring device</u> and system performance [63] topic.

Specific service test

Web page load time	Measures specific web page load time.
Web page content change	Checks for any accidental changes to the specific web page content.
POP3 login time	Measures the time required to login to the mail server.
Send mail time	Measures the time required to send an e-mail message.
Test HTTPS connection	Tests HTTPS connection; it is possible to use a client certificate.

Host specific counters

Some events have all the information required to check them already defined, including host address. Such events are called host specific. In general, all events of the **Specific service test** type are host specific.

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3.4.5.3 Defining counter properties

This topic describes defining properties of different counter types from the Specific service test group.

⊞Web page load time

This counter measures specific web page load time. When adding a counter for a given page, when the counter is read for the first time, the page is downloaded to the folder on the server (C: \ Program Files (x86) \ Axence \ nVision \ Downloaded Webpages) - provided that "its" is not there yet (downloaded the page may be in a folder, e.g. if the nVision database was restored using DBRestore).

Property	Description
Page URL	The page address of the page to be checked
Monitoring interval	After selecting Auto , nVision will control the monitoring interval to ensure frequent polls (based on the number of monitored hosts). If you want to set this to any specific value, then select Set and enter this value in the edit box.

⊞Web page content change

This counter indicates percentage changes to your web page content.

Property	Description
Page URL	The page address of the page to be checked
Monitoring interval	After selecting Auto , nVision will control the monitoring interval to ensure frequent polls (based on the number of monitored hosts). If you want to set this to any specific value, then select Set and enter this value in the edit box.

EPOP3 login time

This counter measures the time required to login to the mail server and check the list of available mails.

Property	Description
POP3 server address	The address of the mail server.
Username	The username required to login.
Password	The password required to login.
Monitoring interval	After selecting Auto , nVision will control the monitoring interval to ensure frequent polls (based on the number of monitored hosts). If you want to set this to any specific value, then select Set and enter this value in the edit box.

ESend mail time

This counter measures the time required to send an e-mail message.

Property	Description							
SMTP server address	The address of the mail server.							
Authorization required	Check this field if your SMTP server requires authorization to allow sending e-mail.							
Username	The username required to login.							
Password	The password required to login.							
Send e-mail message to	The e-mail address where the message will be sent. The time of sending this message will be measured.							
Reply address	If this address is not set properly or blank most mail servers will reject an e-mail. Enter the e-mail address, which you know will be accepted by the mail server (your e-mail address most likely).							
Monitoring interval	After selecting Auto , nVision will control the monitoring interval to ensure frequent polls (based on the number of monitored hosts). If you want to set this to any specific value, then select Set and enter this value in the edit box.							

3.4.6 Monitoring routers and switches

3.4.6.1 SNMP monitoring

With nVision you can monitor the following information with SNMP:

- Interfaces: status and current network traffic. You can also configure monitoring of network in/out traffic on every interface. Such information is available then on the **Performance counters** tab and you may see charts presenting the traffic.
- Switch ports: nVision automatically reads SNMP information related to switch ports if possible. When such information is available, then you will see a **Port mapper** tab in the **Host info** window. This tab shows the information about every port status, MAC and IP of computers connected to any port and their total/current network in/out traffic.
- **Network traffic**: some switches and routers collect the information about the network traffic generated by each device. This information is available with RMON tables. nVision automates the process of monitoring the network traffic generated by a specific host.

This helps to extensively monitor your network infrastructure, status of your switches, routers and network traffic.

3.4.6.2 Monitoring switch ports

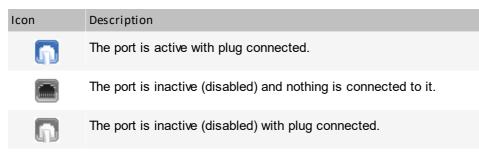
nVision automatically reads port information for every SNMP-manageable switch. This information is presented in graphical form in the **Host info / SNMP / Port mapper** window. The following table lists the meaning of every image:

Icon

Description

The port is active, but nothing is connected to it.

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The tab may not be available in the beginning (after the network is scanned). It will show automatically only when nVision reads the SNMP information from the "dot1dBasePortTable" table (OID: 1.3.6.1.2.1.17.1.4), which may take some time. If the tab is not shown for a long time, please make sure that SNMP on this host is available and you properly configured the SNMP community in the host properties.

To enable port mapping on a switch:

- 1. Navigate to the Host info window.
- 2. In the **General** tab, check **Enable monitoring** field (services, counters, SNMP, port mapping, Windows).
- 3. In the SNMP / SNMP browser tab, check the SNMP manageable device field and click the Configure login credentials link, and then configure a correct SNMP community (set in the device management panel). Make sure the login credentials are correct by clicking the Test login data button (the test should terminate with "SNMP community test successful" message).

The port mapping tab should appear in the **Device information** window.

If the above settings are configured correctly and the mapper port tab is still not generated, make sure the table "dot1dBasePortTable" is available at the given device (by reading its contents in the "SNMP" tab according to the tree specified in the link below).

http://tools.cisco.com/Support/SNMP/do/BrowseOID.do? local=en&translate=Translate&objectInput=1.3.6.1.2.1.17.1.4#oidContent

3.4.6.3 Monitoring node network traffic

Some switches and routers collect the information about the network traffic generated by each device. This information is available with RMON SNMP tables. nVision automates the process of monitoring the network traffic generated by a specific host.

Monitoring host network traffic

- 1. Open Host info window.
- 2. Navigate to the **Port mapper** tab. If such tab is not available, it means that there is no such information for this device. <u>Please refer to the 70 Monitoring switch ports</u> 70 topic for more information.
- Select the grid row which lists the information for the host, which you would like to monitor. Select Monitor host network traffic from the context menu. This will create two SNMP monitoring counters (for incoming and outgoing traffic). These counters will be available on the Performance counters tab.

3.4.7 MIB file compiling

MIB compiler enables you to add new, remove and compile MIB files, which facilitates gathering SNMP information from all network devices: switches, routers, printers, VoIP devices etc. The program can now effectively monitor thousands of different SNMP devices.

To use MIB compiler:

• Select **MIB compiler** from the **Tools** tab on the ribbon. A MIB compiler window will open.

N MIB Compiler					×
MIB Compiler Use this window to add, remov	re and compile MIB files <u>A</u> dd MIB file R	emove MIB			
Module name	Organization	Last updated	Objects	Traps	
ACSServer-MIB			87	0	
AGENTX-MIB	AgentX Working Group	2000-01-10	55	0	
This is the MIB module for the SNMP Ag	ent Extensibility Protocol (AgentX). This MIB	module will be implemen	nted by the m	aster ag	ent.
APM-MIB	IETF RMON MIB Working Group	2000-07-12	129	2	
The MIB module for measuring applicati MIB as specified in RFC 1757 and the RM	on performance as experienced by end-users. NON2 MIB as specified in RFC 2021.	This MIB module augme	ents the origin	nal RMO	N
ASTOZI-MIB			37	0	
ATM-MIB	IETF AToM MIB Working Group	1998-10-19	145	0	
This is the MIB Module for ATM and AAL entities, and and AAL5 connections.	5-related objects for managing ATM interface	s, ATM virtual links, ATM	I cross-conne	ects, AAL	.5
ATM-TC-MIB	IETF AToMMIB Working Group	1998-10-19	31	0	
This MIB Module provides Textual Conve	entions and OBJECT-IDENTITY Objects to be us	sed by ATM systems.			
ATM2-MIB	IETF AToMMIB Working Group	1999-09-16	249	1	
	· · ·			<u>C</u> lose	•
MIB count: 120 Objects cour	nt: 22866 Traps count: 161				11.

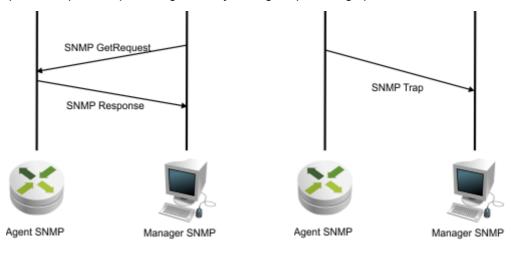
- 1. If you want to add a new file, click the add button.
- 2. Add a MIB module by clicking the add button and selecting a file from its localization. Compile log is shown after compilation.

MIB modules		
		0
Module	Filename	
	<no data="" display="" to=""></no>	
Compile log		

3. You can also define aliases in the Aliases editor (the Atlases button).

3.4.8 SNMP traps

The SNMP Trap allows SNMP Agents to report the change of its status to the manager, if a specified event takes place. The following diagram presents the differences between a contact established by a manager (on the left) and Trap message sent by the Agent (on the right).



SNMP Trap Server

To manage the SNMP Trap server:

- 1. Select SNMP Trap Server from the Tools tab on the ribbon.
- 2. Traps detected by the server are displayed in the SNMP Trap Server window. You can choose the period of the displayed data (hour, day, week, month).
- 3. To configure the server, click the **Configure** button in the top part of the window.
- 4. Set the listening port and access policy options. Mark the **Server autostart** field, if it should be launched automatically on application startup.

NMP Trap Server		
SNMP Trap Serve Use this window to manage St and received packets	NMP Trap Server Configure	
← → @ 11 17 11 marzec 2	019 * 0	Filter Q
Received * Notification	Device Up time Objects	
	SNMP Trap Server Configuration SNMP trap server enabled Port Number: 162 Community: public OK Cancel	
		Close

• SNMP Trap as action

To define the SNMP Trap as an action:

- 1. Select **Manage actions** from the **Tools** tab on the ribbon.
- 2. In the Action Definition Wizard window, enter the action name and select Send SNMP Trap.
- 3. Fill out the fields Host name, Port, Community and PDU type.

N Action definition wizard							×
	Define SN	MP T	rap Prope	erties	;		
	Remote Device						
	Device Name:	localhost			<u>P</u> ort: 162	\$	
	Credentials						
	<u>C</u> ommunity:	public					
	PDU <u>t</u> ype:	Trap V1		•			
	Trap Properties						
	<u>Ag</u> ent:						
	Trap <u>G</u> eneric:	coldStart		•			
	Notification ID:	1.3.6.1.6.3	.1.1.5		<u>V</u> alue: 0	\$	
H	MIB Objects						
~	🔁 Add <u></u> Rem	ove 🗾 E	Edit				
	OID		Туре	Val	ue		
<u>·</u>			<no data="" o<="" td="" to=""><td>lisplay></td><td></td><td></td><td></td></no>	lisplay>			
<u>T</u> est <u>S</u> etup			<	<u>B</u> ack	<u>F</u> inish	Canc	el

- 4. The Notification ID field is required if enterpriseSpecific is selected as Service type.
- 5. According to the specification of the SNMP Trap, it is possible to specify the SNMP Agent address if different than the address of the sending device, and MIB object with additional notification details.

Related topics

Mainter Alerting

Mactions 606

SNMP Trap as event

To define the SNMP Trap event:

- 1. Select Manage events from the Tools and options tab on the ribbon.
- 2. Enter the event name and select the event type Other / SNMP Trap. Select Next.
- 3. In the Event definition wizard set the **MIB Filter**. If the second option is chosen, OIDs of MIB objects to be included in the defined event.

NV Event definition wizard		×						
	SNMP Trap							
	SNMP Trap MIB filter.							
	 <u>Any</u> <u>Matching any entry from the list specified below.</u> 							
	🕒 Add 💼 Remove 🔟 Edit							
A	<no data="" display="" to=""></no>							
	< <u>B</u> ack <u>F</u> inish <u>C</u> an	cel						

Related topics

Mainter Alerting

<u>Events</u> ا

3.4.9 Syslog server

ESyslog server

To manage the Syslog server:

- 1. Select **Syslog server** from the **Tools** tab on the ribbon.
- 2. Messages detected by the server are displayed in the Syslog Server window. You can choose the period of the displayed data (hour, day, week, month).
- 3. To configure the server, click the **Configure** button in the top part of the window.
- 4. Set the listening port. Mark the **Server autostart** field, if it should be launched automatically on application startup.

N Syslog Server	– ×
Use this window to manage Syslog Server and received data	
$\leftarrow \rightarrow \mathbb{Q} \stackrel{\text{\tiny{(1)}}}{=} \stackrel{\text{\tiny{(2)}}}{=} \mathbb{B} \text{ Last hour } 2$ Filter Q	
Received * Hostname * Facility * Severity * Message	
Syslog Server Configuration Syslog server enabled Port Number: 514 OK Cancel	
	<u>C</u> lose

5. In the administration panel of a particular device, give the address and port of the Syslog server to which messages will be sent. It is the address of the nVision server and the port configured in 4.

⊞SysLog message as action

To define the SysLog message as an action:

- 1. Select Manage actions from the Tools and options tab on the ribbon.
- 2. In the Action Definition Wizard window, enter the action name and select **Send SysLog message**.
- 3. Fill out the Address and Server port fields and the Syslog message to be sent.

N Action definition wizard						×
	Define Syslog	messa	ige prope	erties		
E A	Syslog server					
	SysLog server address:					
RU	SysLog server port:	514 🛟				
	Syslog message					
	Message:				•	
	Facility:	User-level m	essages		•	
\wedge	Severity:	Informationa	l - informative m	essage	•	
45						
						_
Test Setup			< <u>B</u> ack	<u>F</u> inish	<u>C</u> ancel	

Related topics

Maint Alerting

Mactions 606

⊞SysLog message as event

To define the SysLog message event:

- 1. Select **Manage events** from the **Tools and options** tab on the ribbon.
- 2. Enter the event name and select the event type Other / SysLog message. Select Next.
- 3. In the Event definition wizard window, set the **SysLog keywords filter**. The event may consider **Any** Syslog messages or those matching to the keywords. If the second option is chosen, **Add** keywords to be included in the defined event.

Related topics



ڬ <u>Events</u> 🕬

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3.4.10 Wake On LAN

The Wake On LAN feature allows machines to be turned on remotely. It is available, if the MAC address of the machine to be turned on or woken up is known (in case of an error, the relevant message is displayed). Apart from this, the machine must be preconfigured (as described below) and, if the machine will be woken up from outside of LAN, port redirection must be set up in the router.

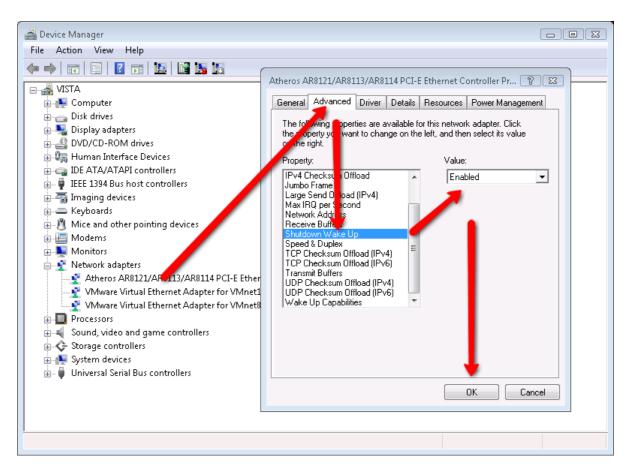
⊞ Configuration of the device to be woken up

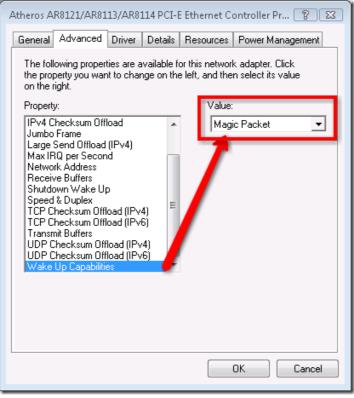
The settings depend on a specific device. Examples of requirements and settings:

- 1. To enable Wake On LAN feature, an ATX power adapter, at least 1A, +5Vsb is necessary.
- 2. BIOS settings:

in Power (Management) or Advanced tab, enable Wake On LAN – the option can have different names, e.g. Wake On LAN, MAC Resume From S3/S4, MACPME Power Up Control, Power On By Onboard LAN, Power Up By Onboard LAN, Resume by LAN, Resume By WOL, Resume on LAN, Resume on LAN/PME#, Wake on LAN from S5, Wake Up On LAN, WakeUp by Onboard LAN or WOL (PME#) From Soft-Off.

- 3. Network adapter settings:
 - a. Navigate to the network adapter settings in Windows / Control Panel / Device Manager.
 - b. Set the options in the Energy Management tab to enable the waking up of the machine (option names depend on the network adapter, e.g. "Allow the device to wake the machine from sleep mode").
 - c. Enable waking and Wake On LAN in the Advanced tab option names can differ depending on the network adapter. Examples of settings are presented below:



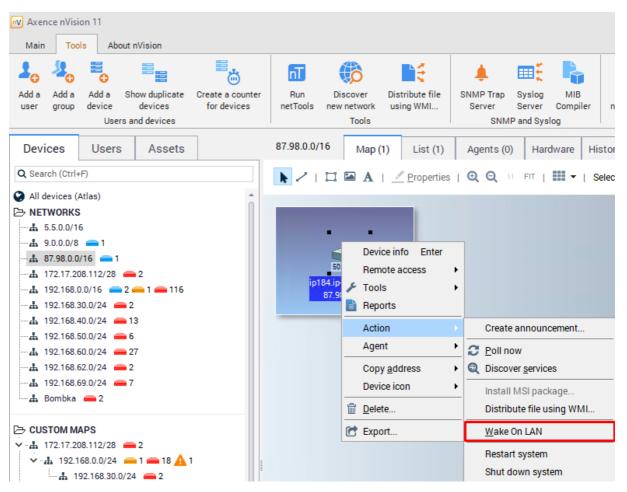


HWaking up of the device

To wake up the monitored device, perform one of the following steps:

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1. In the map or device view in the main nVision window, right click the device and select **Wake On LAN**.



2. In the device info window, **General** tab, right click the interface where the packet should be sent to, and select **Wake On LAN**.

HWake On LAN as action

To define Wake On LAN as action:

- 1. Select Manage actions from the Tools and options tab on the ribbon.
- In the Action Definition Wizard window, enter the action name and select the Send Wake On LAN packet type.
- 3. If you want to use the address of the host where the action is being defined, mark **Use host address** field and go to item 5. Otherwise, it is necessary to define the host (item 4).
- Specify the MAC address of the device and one of the following target addresses for the Wake On LAN packet:
 - a. broadcast address: 255.255.255.255 (if the device is within the same LAN),
 - b. broadcast address of the subnet (if the device is in another LAN e.g. 192.168.0.255 for subnet 192.168.0.1 with mask 255.255.255.0),

- c. IP address of the router configured for packet redirection (if the device is located outside of LAN).
- 5. It is not necessary to specify SecureOn password; however, some network adapters may require it. The password format is six bytes in hexadecimal notation: AA:BB:CC:DD:EE:FF.

NV Action definition wizard	×	
	Define Wake On LAN packet properties	
	Lise device address MAC Address: Local Broadcast Address: 255.255.255.255 Port: 7 SecureOn password:	
Test Setup	< <u>B</u> ack <u>F</u> inish <u>C</u> ancel]

Part V

4 Hosts, maps and ActiveDirectory sync.

4.1 Introduction

Atlas

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The atlas is a set of maps holding monitored hosts along with defined alerts, events, visualization styles etc.

Atlas tree

The atlas tree lists all available maps. There are several map types, described in detail in the <u>Map</u> <u>types</u> (92) topic. The atlas tree is designed to allow you to select the map, which is presented on the right side of the window, and set map properties, etc. You can change the order of maps in the tree (refer to the <u>Managing Maps</u> (93) topic for more information).

Maps

The map is a graphical representation of your network or a part of it. It holds the hosts for visualization. There are several types of maps. For more information please refer to the <u>Map types</u> 92 topic.

Styles

All map objects (except text) use the style mechanism. Style determines how the object is presented. For example it defines colors, fonts, frames, etc. To change the object appearance you have to select its style while defining object properties. For more information about styles, refer to <u>Styles</u> and <u>Maps</u> 2 topics.

Hosts

A host is a representation of any physical device present in your network. It can have several IPs and nVision can monitor all services running on this host on any of its addresses. It means that multi-IP hosts like routers or web servers can be represented in nVision as one icon (object) and all of its interfaces, addresses and services will be monitored.

4.2 Host info window

To see host info, double-click the host icon or select Host info from its context menu.

General

The tab presents:

- basic information about the host being monitored: host name, importance, department, type,
- the **Monitor if this host is up:** field allows setting the "parent" host (a host will not be monitored and alerts will not be raised if the "parent" host is down),
- additional information in info 1 / info 2 fields: downloaded by the Agent from the description of the machine and domain being monitored,
- additional fields for notes,
- list of all addresses and interfaces available on a given machine.

Performance

Services

nVision can monitor ICMP, TCP and UDP services. You can see all monitored services listed in the grid available in the Services tab. The information about response time and requests sent/received is presented for each service. After you select one or more services, you will see the chart showing response time and % of requests/packets lost (only if one service is selected). You can see historical data in several time periods (e.g. the last 15 minutes, 1 hour, 1 day, 1 week, 1 month and a whole year). To select the appropriate period, just select the corresponding icon on the chart toolbar. To scroll the chart backward and forward, use the arrow icons located on the chart toolbar. For more information about services refer to the Monitoring services [59] chapter.

Performance counters

nVision can monitor several types of performance counters (for the complete list of available counters refer to the <u>Counter types</u> 64 topic). You can see all monitored counters listed in the grid available in the **Performance counters** tab. The information about last and minimum/maximum/average value is presented for each counter (except the Host status counter which does not have min/max/avg values). After you select a counter, you will see the chart showing its value. You can see historical data in several time periods (e.g. the last 15 minutes, 1 hour, 1 day, 1 week, 1 month and a whole year). To scroll the chart backward and forward, use the arrow icons located on the chart toolbar. For information about counters refer to the <u>Monitoring performance</u> 63 chapter.

Bandwidth usage

This tab shows the bandwidth usage by processes that are grouped according to the settings in the nVision's <u>options</u> $\boxed{43}$. To monitor the bandwidth usage, it is necessary to install an Agent and enable this option in the <u>Agent settings</u> $\boxed{127}$.

Inventory

Hardware

This tab contains the information about hardware configuration of the machine monitored by the Agent, a list of connected devices and the history of connections and file operations are preserved.

Software

This tab shows a list of all applications installed on computers. For more information, see the Hardware and software inventory topic.

Fixed assets

This tab shows a list of assets for a given host. It also allows detected events to be managed. For more information, see the Fixed assets topic.

User files

Shows a list of files in the specified format scanned by the Agent according to the settings in the Agent profile 127

File manager

Allows data to be transferred between the local computer (nVision server) and the workstation being managed.

History

This tab shows the history of changes in hardware configuration and programs installed on the host. It also displays the information about IP address from which the Agent has connected to the nVision server. If this is a public address, you can double-click the row to open a new browser window with the web page that presents the estimated address geolocation.

SNMP

SNMP browser

If the host is SNMP manageable, you will see a SNMP tab with a SNMP browser. In order for the data to be read, configure the SNMP community data after clicking the **Configure credentials** link on this tab.

Port mapper

The port mapper tab shows a list of all devices connected to the switch port. It is available only when nVision is able to read the <u>appropriate SNMP information</u> and the host (which is available mostly on switches).

SNMP traps

The SNMP Traps tab presents the list of all generated SNMP traps 73.

Windows

System information

Information about the operating system collected in the Inventory module.

Windows services

Shows a list of Windows services monitored on a given host 63.

In order to monitor by WMI, you have to properly configure credentials in the host properties window. Also WMI has to be enabled on the remote host. Please refer to <u>Requirements and configuration</u> [28] topic for more information.

To monitor Windows services without opening remote access to WMI, install Agents 17.

Windows event log

Shows a list of events saved in the Windows Log, monitored according to the specific criteria on a given host.

In order to monitor by WMI, you have to properly configure credentials in the host properties window. Also WMI has to be enabled on the remote host. For more information refer to the <u>Requirements and</u> <u>configuration</u> topic. To monitor Windows services without opening remote access to WMI, install Agents.

Processes

Shows a list of processes currently running on a given host.

Remote commands execution

Allows a command line to be run remotely on the host. This function can apply to several machines at the same time.

Events

Event log

This is a list of all raised alerts on the host along with the action execution log for every alert. You can view alerts sorted by several fields and also filter them to see only alerts that are interesting to you. Click the **Configure device alerts** link to create individual <u>alerts</u> [590].

Syslog

The Syslog tab presents the list of all generated Syslog messages 761.

4.3 Global Browser

Searching for a specific piece of information from a number of datasets, e.g. Users, Resources, Maps, Devices, Documents, etc., has been quite onerous so far, since to find an object you should first have accessed a window with the relevant list and then filtered it. This inconvenience has been eliminated by the introduction of the **global browser** which is used to search multiple datasets in one place. This global browser is located at the top of the console, above the menu bar. The global browser is always available in the main window of the nVision console and its display is not affected by the currently viewed bookmark.

To use the global browser:

- 1. Click in the search box and enter the keywords/property names to be searched (the search starts with at least 3 characters in the search box).
- 2. Double-click the object that appears in the list and you will be taken to the appropriate tab. For instance, when you click the user's name, the account window for this user appears.

Generate MSI nackanes Print har Asset	Application regories Manage tem lates Configure license type		Printout Config	ure Reports	View Alerts Distri gvents s and alerts	oution Announcements	Open	Open martTime A	Open dminCenter	Options					
Devices Users Assets	Jap List	Agents Hardware	History Security												
Q Search (Ctrl+F)														Filter Q	
All devices (Atlas)		Device		Address		Services	Agent	Interfaces		Services response			equests/packets		Alerts
NETWORKS	Statu Type	into into	IP DNS	Mac		Services	Status	Interfaces	Average	Min Max	Last response tin		ed Lost	% Lost	Last alert Op
CUSTOM MAPS	IP Phone		192.168.111 lobortis.ve			PINS HTTP		1	_		28.02.2020 15:5		4		Today, 08: 0
COSTOM MAPS	IP Phone		192.168.111 adipiscing			PINS HTTP		1	3	1 5	Today, 10:22:42		0	0%	14.11.201 0
DEPARTMENTS	Phone IP Phone		192.168.111 curae.felis			PING HTTP		1			28.02.2020 15:5	-	4	100 %	Today, 08: 0
	IP Phone		192.168.111 mattis.ma					1			29.02.2020 00.0		4	100 %	Today, 08: 0
SMARTMAPS	IP Phone		192.168.111 commodo			PING HTTP		1	2	1 12	Today, 10:22:38		0	0%	23.11.2010
ACTIVE DIRECTORY	IP Phone		192.168.111 metus.part			PING HTTP		1	5	12	Today, 10:22:36		0	0%	29.03.2010
Addite bineston	IP Phone		192.168.111 curae.hend			HTTP PING		1	4	1 12	Today, 10:22:41		0	0%	14.11.2010
	IP Phone		192.168.111 congue.pot 192.168.111 convallis.s			HTTP PING		1			28.02.2020 15:5		4		Today, 08: 0
			192.168.111 consectetu			HTTP PING		1		1 1	Today, 10:22:43 20.02.2020 11:3		0	0%	23.07.202 0
	IP Phone		192.168.111 facilisi.alig			PING HTTP		1			28.02.2020 15:5		4		Today, 08: 0 Today, 08: 0
	IP Phone		192.168.111 tincidunt.tu.			PING HTTP		1					4	100 %	14.11.201 0
	IP Phone		192.168.111.8 netus.aliqu			PING HTTP		1			Today, 10:22:41		0	0%	14.11.201 0
			192.168.111.8 netus.angu			PING HTTP		1		1 1	Today, 10:22:38 28.02.2020 20:2		4		Today, 08: 0
	IP Phone		192.168.111 ultrices.tur			PING HTTP		1			06.10.2021 12:5		4		Today, 08: 0
	IP Phone		192.168.111 vivamus.s			PINS HTTP					29.02.2020 00.0		4	100 %	Today, 08: 0
	IP Phone		192.168.111 praesent.ti			PINS HTTP		1			28.02.2020 17.1		4		Today, 08: 0
	IP Phone		192.168.111 accumsan			PING HTTP					28.02.2020 17:1			100 %	Today, 08: 0
	IP Phone		192.168.111 posuere.su			PING HTTP					28.02.2020 15:5		4	100 %	Today, 08: 0
	IP Phone		192.168.111 sociosqu.p.			PING HTTP				1 2	Today, 10:22:38			0%	14.11.201 0
	IP Phone		192.168.111 fames.sod			PING HTTP					05.06.2019 07:2		4		Today, 08: 0
	P Phone	HABITAS Cisco SP	192.168.111 habitasse.t			HTTP PING		1			28.02.2020 17:1	4 0	4		Today, 08: 0
	IP Phone		192.168.111 lectus.sen			HTTP PING		1			29.02.2020 00.0		4		Today, 08: 0
	IP Phone	MOLESTI Cisco SP	192.168.111 molestie.g			HTTP PING		1			28.02.2020 17:1	4 0	4	100 %	Today, 08: 0
	IP Phone	LUCTUS-P Cisco SP	192.168.111 luctus.puru			HTTP PING		1	3	3 7	Today, 10:22:41	4 4	0	0.%	14.11.2010
	IP Phone	FAMES-VI Cisco SP	192.168.111 fames.vita			HTTP PING		1			29.02.2020 00:0	4 0	4	100 %	Today, 08: 0
	IP Phone	MAECEN Linksys S	192.168.111 maecenas			PING HTTP		1	4	1 12	Today, 10:22:41	4 4	0	0 %	14.11.201 0
	IP Phone	SUSPEND Cisco SP	192.168.111 suspendiss			HTTP PING		1			28.02.2020 17:1		4	100 %	Today, 08: 0
	IP Phone	PARTURIE Linksys S	192.168.111 parturient			PING HTTP		1			28.02.2020 15:5	4 0	4	100 %	Today, 08: 0
		Commence in 1	100.000.000			ours) immed									7 1 00

					8	Option	Open IdminCenter	Open hartTime A	Open HelpDesk S	stribution tasks HelpDesk	View Alerts gvents orts and alerts	ure Reports	rintout Config sudit print o Printouts	hissions Pr				MSI packages Print bar A manager codes se Inventory
													Security	e History	dware			Users Assets
ilter Q	Filter															rs	Enter at least 3 characte	Ctrl+F)
A	ests/packets				response tir			Interfaces	Agent	Services		Address						es (Atlas)
% Lost Last alert		Received		Last response tin	Max	Min	Average	Interfaces	Status	Services	NIC Vendor	Mac	DNS	IP				RKS
100 % Today, 08:		0		28.02.2020 15:5				1		PING HTTP				. 192.168.111.				AMAPS
0% 14.11.201		4		Today, 10:22:42	5	1	3	1		PING HTTP				. 192.168.111.				n mar o
100 % Today, 08:		0		28.02.2020 15.5 29.02.2020 00:0				1		PING HTTP				. 192.168.111. 192.168.111.				MENTS
100 % Today, 08: 0 % 23.11.201		4		Today, 10:22:38			2	1		PING HTTP				192.168.111.				
0 % 29.03.201		4		Today, 10:22:36	12			1		PING HTTP				192.168.111.		METHOD.	IP Phone	MAPS
0% 14.11.201		4		Today, 10:22:36	12		4			PING HTTP				. 192.168.111.			P Phone	DIRECTORY
100 % Today, 08:		-		28.02.2020 15:5				1		HTTP PING				. 192.168.111.			IP Phone	
0 % 23.07.202	_	8		Today, 10:22:43	2			1		HTTP PING			convallis.s.			ice CONVALL		
100 % Today, 08		0		20.02.2020 11:3				1		HTTP PING			consectetu.		Linksys S.	CONSECT	P Phone	
100 % Today, 08:		0		28.02.2020 15.5						PING HTTP			facilisi.aliq				IP Phone	
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Global browser rules

The global browser works according to the following rules:

- 1. Search results are not case-sensitive.
- 2. The global browser ignores Polish characters (a, c, e, l, n, ó, s, z, z); for instance, if you want to search for a user named Maczynski, you can enter both "Maczynski" and "Maczynski" in the global browser. The search result will be the same.
- 3. The global browser also finds the search item when the string entered in the search box occurs in some of the items being searched; for instance, when you type "Print", the list of search results may include "Printer".

4. The global browser does not recognize any special characters such as a space, an asterisk ('*'), quotation marks ('"'), or a question mark ('?'). Any non-alphanumeric characters are considered as part of the search term by the global browser.

List of objects to search for

Search item	Searched properties /
	keywords
Document	document name
	file name
	description
Group, smart group	name
Hierarchy	element name
Map (network)	map name
	network IP address
Department, user map, smart	name
map, OU (Organizational Unit)	
from Active Directory	
Resource type	name
Document type	name
(Device) host	device name
	DNS name
	IP address
	MAC address
User	user name
	full name
	e-mail address
	position
	phone number
	local account name (shown in
	the Related Accounts section)
Resource	name
	serial number
	inventory number
	"location" field
Software audit, Applications,	element name
Licenses	
Generate protocol	element name

[
MSI package manager	
Print barcodes	
Resource settings	
Application categories	
Manage templates	
Configure license type	
DataGuard audit	
Connected devices	
Manage devices	
Manage trustees	
Printout audit	
Configure printing costs	
Reports	
Event log	
Alerts	
Distribution tasks	
Messages	
Open HelpDesk	
Open SmartTime	
Open AdminCenter	
Options	
Show duplicated devices	
SNMP trap server	
Syslog server	
MIB compiler	
Filters for smart maps	
Filters for smart groups	
Manage events	
Manage actions	
Manage styles	
Manage tools	
Manage accounts	
Manage departments	
Options - Setting up services	phrase "Options - " + bookmark
Options - Maintenance	name
Options - Blockade messages	
Options - HelpDesk	
Resource settings - Resource	phrase "Resource settings - " +
types	bookmark name
Resource settings - Resource	
type folders	
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Resource settings - Resource	
statuses	
Resource settings - Resource	
detection	
Resource settings - Global	
fields	
Resource settings - Action	
templates	
Resource settings - Data	
sources	
Resource settings - Document	
types	
Resource settings - Protocol	
settings	

4.4 Maps

4.4.1 Overview

The map is a graphical representation of your network or a part of it. The map can contain icons, links between them and three types of static objects available for your convenience: shape, picture and text. The full list of map objects is described in the <u>Map objects</u> [93] topic.

There are three map types: network, routing and custom - described in the Map types [92] topic.

Styles

All map objects (except text) use the style mechanism. Style determines how the object is presented. For example it defines colors, fonts, frames, etc. To change the object appearance you have to select its style while defining object properties.

All new objects are created with default style. Default style means that the object will use the default map style. The default map style can be set to any specific style or to atlas default style. Atlas always has a default style selected. When you start the program for the first time, all objects will use those atlas default styles. You can adjust styles later. To read more about styles, refer to the Managing styles topic.

4.4.2 Map types

There are three map types in nVision. This topic describes each of them and discusses their characteristics.

Map type	Description	Allowed operations
Network	The map created by the program as a representation of the discovered IP network.	• Renaming is allowed, but even when renamed, the map still represents the same network.
	nVision can periodically rescan such network and add new hosts.	

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Map type	Description	Allowed operations
		 Delete – when the network map is deleted it also deletes all hosts belonging to this network. All other operations are allowed without limitations.
Custom	This is map created by the user. It can consist of any hosts copied or moved from any other map.	 All operations are allowed without limitations.
<u>Smart map</u> ाळी	A smart map groups devices, which meet the specified conditions at a given moment. Smart maps are based on user-	• You can change the map name, but even after such a change the map shows the same network.
	defined filters – the map is generated dynamically.	• You cannot remove or arrange device icons. What happens at each stage?

4.4.3 Map objects

The map can contain icons, links between them and three types of static objects available for your convenience: shape, picture and text. Here is a full list of map objects:

Map objects	Description
lcons	Hosts are represented by icons. The icon represents the status of the host - refer to the topic <u>Host visualization about host</u> for more information about host visualization.
Link	lcons can be linked together to show logical or physical connections between hosts.
Shape	Background object used to group icons.
Picture	Similar to the shape, but a specific image file is used as content.
Text	Text which you can place anywhere on the map.

Object precedence

Objects on the map have a precedence. It means that some objects are always painted over others. For example, icons are always painted over any other object type. However, you can change the precedence of objects of one type. You can bring objects to the front or send them to the back which changes the way the overlapping objects are painted.

4.4.4 Managing maps

This topic discusses all aspects related to managing maps.

Creating new map

1. In the Atlas tree, select the map or folder under which you want to create a new map. You can select Custom group.

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2. Select New / Map from the context menu.

Note

• New maps can be created only in the Custom maps group.

Editing map properties

- 1. Select the map.
- 2. Select Properties from the context menu.
- 3. Set map properties according to the description in the table below.
- 4. You can also open the alert management window for this map just click on the link under the **Alerting policy** label available at the bottom of the window.

Property	Description
Name	Map name
Network	This is the network which is visualized by the network map (look at <u>Map types [92]</u> topic to see what is network map). This is a read-only field.

Default map styles – determine how maps and hosts will be visualized. Refer to the <u>Styles</u> topic for more information about styles.

Host visualization	Default icon visualization style.
Shape style	Default shape style.
Line style	Default line style.

Removing the map

- 1. Select the map.
- 2. Select **Remove** from the context menu.

4.4.5 Working with maps

This topic describes all tools required to work with a map.

Tools

The tools are available on the map toolbar located usually at the left side of the map window (the map toolbar may be moved to any map edge). The tools allow you to select objects on the map, link icons and create background objects like shapes, pictures and texts.

Tool - selection

Selection is the default tool. It allows you to select objects on a map, drag them, arrange them and perform specific actions like opening the host status window or properties window.

To use the selection tool, click the k icon in the map toolbar. This tool will be active until you select any other tool.

Tool – linking icons

The linking icons tool allows you to link icons together – i.e. draw graphical connections between host icons on the map.

- 1. To use the linking icons tool, click the
- 2. To link two icons, just click them in succession, i.e.:
 - Click one of the icons you want to link. The link line will appear indicating that now you have to click the next icon to link.
 - Click the next icon. The link will be created between those two icons.
- 3. Now, you can repeat steps 2-3 to link another icon pair.

Tool – creating shapes

This tool allows creating different shapes on the map (background graphical objects – rectangles, ellipses, etc.).

- 1. Click the ^{III} tool icon in the map toolbar. This tool will be active until you create a shape. Then the active tool will change back to selection.
- 2. Click and hold the left mouse button in the place where you want to have the top-left corner of the shape and drag the cursor to the place where the bottom-right corner should be. Release the button.

Tool – creating pictures

This tool allows creating pictures on the map. After creating a picture, you have to set it up by selecting the graphics file to be shown.

- 1. Click the is tool icon in the map toolbar. This tool will be active until you create a picture. Then the active tool will change back to selection.
- 2. Click and hold the left mouse button in the place where you want to have the picture's top-left corner and drag the cursor to the place where bottom-right corner should be. Release the button.
- 3. The picture properties window will show. You have to select the image file now and <u>set options</u> set options between the picture.

Tool – creating texts

This tool allows creating texts on the map. After creating a text, you have to set it up by selecting the font and entering the text to be shown.

- 1. Click the **A** tool icon in the map toolbar. This tool will be active until you create a text. Then the active tool will change back to selection.
- 2. Click the place where you want to have the text.

3. The text properties window will show. You have to enter the text now and <u>set options</u> be properly create the text.

Tool - Grid aligning icons

This tool allows you to precisely arrange icons on the network map, as well as align icons on the network map according to the grid. To align icons on the network map:

- 1. Click on the ^{IIII} icon on the map toolbar.
- 2. In the window that opens, click the **Yes** button.

The icons on the network map will be aligned to the closest waypoint on the grid. It will also display a grid on the map (dots representing grid landmarks).

To disable the display of the grid, click the above icon again.

Working with map objects

Copying objects to other map

- 1. Select the object or objects.
- 2. Select **Copy To...** from the context menu. The map selection window will open.
- 3. Select the map to which the selected object(s) will be copied.

Deleting objects

- 1. Select the object or objects.
- 2. Select **Delete** from the context menu.

Changing the order of objects (bring to front / send back)

You can change the order of objects of the same type – the way they are painted and how they overlap. The precedence of different type objects is fixed (refer to the <u>Map objects</u> 93) topic for more information).

- To show the object above any other object, select **Position / Bring to front** from the object context menu.
- To put the object under all other objects, select **Position / Send back** from the object context menu.

Other operations

Automatic map arrangement

There are two ways to arrange your map automatically: using the map arrangement function and using the map layout assistant.

Arrange all

This function is best for a network or custom map, especially if hosts are not linked together. It just places icons in several rows.

- 1. Click the icon located in the map toolbar and select **Arrange all** from the menu.
- 2. Select how you would like to arrange the map and click OK.
- By selecting **Connections from port mapper** option, the icons will be linked automatically with switches they are connected with (in order to enable this function, the <u>monitoring switch ports</u> roth must be enabled at switch icon's properties).

Arrange linked hosts

To arrange a routing map (or any other map where all hosts are linked) properly, the icons may not be just placed in rows since such arrangement will produce unreadable map with all icon links crossing each other. Thus, you need to use the Arrange linked hosts option, which will arrange the whole map to avoid crossings and make the whole map readable as much as possible.

- 1. Click the arrow at the icon located in the map toolbar and select **Arrange linked hosts** from the menu.
- 2. The option will be turned on and arranging the map will begin. You can interact with the arrangement process to adjust it to your needs. You can move icons and add/remove links between them.

Zoom – changing a map scale

You can adjust the scale in which the map is presented. The default scale is 100% and you can set this scale anytime by the clicking **1:1** icon.

Zoom in

To enlarge the map, click the [@] icon.

Zoom out

To reduce the map, click the <a>(icon.

Zoom to fit

To have the map scale adjusted automatically so it adapts to the map size, click the **FIT** icon. nVision will try to show the whole map at the biggest possible scale.

Locking the map

If the map arrangement is finished and you want to make sure that something will not be changed by mistake, you can lock the map by clicking the **Edit map** switch in the upper right corner of the window. Objects cannot be moved or resized on the locked map, but you can still edit host properties.

4.4.6 Static map objects – properties

This topic discusses modifying static map object properties. For more information about map objects refer to the <u>Map objects</u> static map topic and for the information about creating objects refer to Working with the map topic.

Link

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lcons can be linked together to show logical or physical connections between hosts.

- 1. Double-click the link or select **Properties** from its context menu.
- 2. Set the properties according to the description in the table below.

Property	Description
Caption	The caption to be shown over the link line.
Style	The style with which the link will be painted. Refer to \underline{Styles} topic for more information about styles.

Shape

Background object used to group icons.

- 1. Double-click the shape or select **Properties** from its context menu.
- 2. Set the properties according to the description in the table below.

Property	Description
Text	The text to be shown on the shape.
Style	The style with which the shape will be painted. Refer to <u>Styles [103]</u> topic for more information about styles.

Picture

Similar to the shape, but a specific image file is used as content.

- 1. Double-click the picture or select **Properties** from its context menu.
- 2. Set the properties according to the description in the table below.

Property	Description
File name	The image file name. Enter it or select by clicking the icon.
Show	 Determines the way the picture is sized: Normal – no image sizing, but when you try to down-size it, only a part of the image will be shown (if the image is bigger than the picture size it will be clipped). Stretch – the image will be sized to match the size of the picture object.

Property	Description
	• Tile – the image will be tiled to fill the picture object rectangle.
Actual size (1:1)	Image fully shown with no sizing available.
Keep aspect ratio	When sizing, keep image aspect ratio (proportions) unchanged.
Transparent	If the image has any transparency layer - use it.
Opacity	Sets the opacity of the image.

Text

Text which you can place anywhere on the map.

- 1. Double-click the text or select **Properties** from its context menu.
- 2. Set the properties according to the description in the table below.

Property	Description
Text	The text on the map.
Font name	Font of the text.
Size	Font size.
Font color	Color of the text.
Angle	Angle of the text.
Shadow	The text shadow.

Background

1. Select **Background** from the map context menu.

2. Select the background type and set its properties according to the description in the table below.

Property	Description
Gradient	Select beginning and ending colors and a direction of filling.
Solid color	Select a color.
Мар	Select the map to be shown as a background.
Texture	Select the texture.
Picture	Enter the image file name or select by clicking the […] icon. Set the show mode:
	 Normal – image shown in the top-left corner.
	 Center – image centered on the map.

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Property	Description
	 Stretch – the image will be sized to match the size of the map.
	 Tile – the image will be tiled to fill the map.

4.5 Hosts

4.5.1 Overview

Hosts are visualized on the maps as icons. The same host can be shown as an icon on an unlimited number of maps.

Host properties and info

There are two main windows related to the host: host properties and host info. You can setup the host properties, monitoring and alerting options with host properties window. The host info window presents all the information gathered by the monitor. You will see SNMP information (for SNMP manageable hosts), services and counters performance information, and charts.

Finding the device

You can easily find the device with the search engine located on the main toolbar in the right hand section of the main nVision window and in the **Device Information** window. A list of properties which are taken into account during searching can be found below:

- Name
- IP, DNS, and MAC addresses of each interface
- Info1 and Info2.

When you keep entering characters in the search box, the results that contain the entered string are filtered out.

To find a device where at least one of the above fields contains:

a string ending with the entered characters – should finish with a |,
 e.g.:

54|

• a string starting with the entered characters – should be preceded with a |,

```
e.g.:
|AABBCC
```

• the exactly the entered string - should start and finish with a |,

```
e.g.:
|office-pc|.
```

Important: DNS identification is turned on only if IP - DNS lookup gives the same result in both directions.

4.5.2 Host visualization

There is a wealth of information regarding the host status presented along with the host icon. That information helps to quickly check the whole network status and find problematic hosts.

Sample host icon

The host icon presents a wide range of information right on the map – displayed in these examples:

HTTP 2m 1s
 Host type Windows XP

• Leading service (usually PING) response time is 10ms

William 192.168.0.172

0 ms

- Host status <Warning> (yellow icon) because service HTTP has been down for 4min 1s
- This is SNMP manageable host



- Host type Linux server
- Host status <Down> (red icon) since 1 day 2h
- There are 3 currently open (unresolved) alerts.

host46 192.168.0.1

Visualization options

The following table lists all possible information that can be presented graphically along with the host icon.

Name	Description
lcon with a caption, host status: Up	The base form of the icon. It shows the type of the host and the name or address of the host in the caption.
Host status: Down	The icon is colorized in red and the duration of the down status is written at the top of the icon. For more information about host status refer to Events [595] topic.
Host status: Warning	The icon is colorized in yellow. It means that at least one service does not respond or a warning alert was raised on the host. For more information about host status refer to Events first topic.
Host status: Archived	The icon is greyed out. It means that the given device Agent data were archived. For more information, see <u>Agent Archiving</u> [120] chapter.
Non responding service(s)	The name of the problematic service with the duration of the problem is written on the icon.
Response time of selected service	Last or average response time of the selected service is placed at the bottom of the icon. Usually it shows the average PING response time. Its background changes its color according to the service performance.

Name	Description
Alerts	This icon, located at the right side of the host icon, indicates non acknowledged alerts raised on the host.
SNMP manageability	This icon, located at the right side of the host icon, indicates that the host is SNMP manageable.
Performance chart	You can see up to 6 performance bars that show service response times or any counter.

4.5.3 Managing hosts

This topic discusses various aspects of managing the host and its services.

ESetting host properties

- 1. Select Host info from icon context menu.
- 2. Set host properties according to the description available in the <u>Host properties</u>^[84] topic.

HAdding a host

- 1. Select Add host from the Tools tab on the ribbon.
- 2. Enter the host DNS name or IP address and the mask.
- 3. You can also setup host type and importance options.

Deleting a host icon

- 1. Select **Delete** from the icon context menu.
- 2. Confirm delete. When deleting the last host icon in the specific host, the whole host will be removed along with all its data. So you can safely remove icons from custom maps, even if icons of those same hosts are still located on other network maps.

Displaying host info window

- 1. Select **Host info** from the icon context menu or double-click the icon.
- 2. View the host info window the description of the information presented in this window is located in the Host info window ⁸⁴ topic.
- 3. You can leave this window on the desktop and still work with the program. The information presented in the window will be automatically refreshed to reflect changes and the host status.
- 4. You can open an unlimited number of host info windows.

■ Managing host services & counters

Hanaging services

For information about services refer to the Monitoring services 59 chapter.

Managing performance counters

For information about counters refer to the Monitoring device and system performance and chapter.

4.6 Styles

4.6.1 Overview

Styles define the map visualization. This topic discusses default styles and setting styles for specific objects. To read about creating and editing styles, refer to the <u>Managing styles</u> topic.

Default styles

Atlas default styles

Atlas default styles are defined in the Atlas properties. Those styles define the default styles, which are used by all new and existing objects that have their style defined to <default> (however, the map holding those objects can override Atlas styles). When a map is created, its styles and styles of all objects it contains are set to <default>, thus the atlas styles will be applied. Of course, when you change Atlas default styles, it changes the appearance of such maps and objects.

To change the default Atlas styles, do it in the Atlas properties window.

Map default styles

A map has its own default styles, similar to the Atlas's. With those styles you can override global styles to more specific ones. You can also use <default> as the map default style. Then the style defined in the Atlas properties will be used.

The <default> style in that case means that the map is using the style defined in the Atlas properties. You can consider it as a reference to the Atlas style. Therefore, the <default> style cannot be edited or deleted, because it is only a reference.

Map object styles

Host visualization style

With host visualization style you define how the host is presented on the map. You can decide which information is displayed along with the icon: down time, information about non-responding services, last response time, SNMP and alert indicators, etc.

Shape style

Shape style fully defines the appearance of the shape (background map object): frame, colors, etc.

Link style

Link style defines graphical properties of links between icons.

4.6.2 Defining styles

This topic describes the properties of different style types. For information about creating, editing and removing styles, refer to the Managing styles topic.

Host visualization style

With host visualization style you define how the host is presented on the map. Here is the list of this style properties with the description.

Property	Description
Name	Name of the style.

Property	Description
When changing state blink for	The duration of icon blinking after a host status change. Blinking helps to easily locate the hosts that changed status.
Icon Caption	Defines the text of the icon caption.
Transparent caption	The icon caption will be transparent if this option is checked.
Host and services down time	If checked then in case of host down you will see the duration of down time.
	If the host is up, but some services are not responding, you will see the information about down services with the duration of down time.
Leading service response time	This property defines if the specific service last response time should be shown in the icon.
SNMP manageability	If the host is SNMP manageable the snm icon will be shown at the bottom-right side.
Alert warning	If the host has unacknowledged alerts, the Δ icon along with the number of open alerts will be shown at the right side.
Agent installed	If the Agent is installed on the host, the $ extsf{a}$ icon will be shown at the right side.

Shape style

Shape style fully defines the appearance of the shape (background map object): frame, colors, etc.

Property	Description
Style name	Name of the style.
Shape type	Type of the shape. Currently there are 4 types available: rectangle, rounded rectangle, ellipse and star.
Font name	The font name of the shape caption.
Font color and size	Color and size of the caption font.
Background	 Solid – shape background is painted with the selected color.
	 Gradient – paints gradient background with the defined colors and direction.
Frame	• Color – frame color.
	• Size - width of the frame.
Opacity	Defines transparency of the shape.
Shadow	Defines the size of the shadow.

Line style

Line style defines graphical properties of links between icons.

Property	Description
Style name	Name of the style.
Thickness	Width of the link line.
Color	Line color.
Туре	 Simple – straight line. Polyline – broken line.
Font name	Name of the font.
Font size and color	Size and color of the font.
Show caption on line	If marked, caption is shown on the line.

4.6.3 Managing styles

All map objects (except text) use the style mechanism. Style determines how the object is presented. For example, it defines colors, fonts, frames, etc. To change the object appearance, you have to select its style while defining object properties.

⊞Style management window

- 1. Select Manage styles from the Tools tab on the ribbon.
- 2. Select the style type to manage (i.e. host, shape or link) in the navigation bar located on the right side of the window.

ECreating new style

- 1. Open the style management window.
- 2. Click the ¹ icon.
- 3. Define the style according to the information available in the <u>Defining styles</u> topic.

Editing the style

- 1. Open the style management window.
- 2. Select the style to edit and click the $\begin{array}{c} \end{array}$ icon.
- 3. Change the style properties according to the information available in the <u>Defining styles</u> topic.

EREMOVING STYLES

- 1. Open the style management window.
- 2. Select the style to edit and click the ^{III} icon.

4.7 Departments

4.7.1 Overview

Departments allow the reflection of the real structure of a monitored computer group in nVision. Therefore, it allows for easier browsing, management and the creation of reports related to selected devices.

The department list is displayed in the left part of the application window, below the networks and user maps. It has a hierarchical structure, which allows the relationship of the dependency of organizational units (parent/subsidiary department) to be represented. An example hierarchy is presented in the image below.

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Main	Тоо	ls Abou	ut nVision	
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Add a user		device	devices	Create a counter for devices
		Users	and devices	
Devi	ces	Users	Assets	
Q Sear	ch (Ctrl+			
😧 All d	evices (/	Atlas)		
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CUS	том м	APS		
	Oddział 1 🔲 Izolat			
	_	operacyjna		
× 🛄 🤅				
	Izolat	ka		

Related topics

- <u>لا Creating a department structure</u>
- Maing devices to departments
- 109 Reports 109
- 🔟 <u>SmartMaps</u> 🕬

4.7.2 Creating a department structure

When creating the department hierarchy, start from the most general units and go towards the lowest sub-departments in the hierarchy. Branches enable to graphically determine the relationships only. In

terms of operation, they are "at the same level". Such a procedure will facilitate the creation process, as it will not be necessary to go back to sub-department properties to supplement information.

To create a department structure:

Select the **Manage departments** option from the **Tools** tab. The department window will open, displaying all the departments defined for the atlas.

1. To create a new department, click the • Add department button. In the department property dialog, enter the name of the created department and an optional description. If it is a sub-department, mark an appropriate field and select a parent department.

nv Departments		
Departments Manage your department	Add department	
Name	· Description	
+ Oddział 1	Szpital	
Izolatka		
Sala operacyjna		
- Szpital		
Izolatka		
	Department properties	×
	Add new department	
	Department name:	
	Description:	
	Is a sub-department of	-
		ancel
		Close

- 2. Confirm the entered changes and the created department will appear in the list. Repeat the above procedure, until all departments are created.
- 3. If it is necessary to make corrections, click the *Edit department* button.

4.7.3 Adding devices to departments

To put a device into a previously created department:

- 1. Navigate to the **Device info** window, **General** tab.
- 2. Expand the menu at the **Department** field and select a department from the list. Click **OK** and close the window.

4.7.4 Reports

It is possible to generate reports for selected departments. To create such a report, right click the department for which the report will be created, and select the **Reports** option. You can also select the specific departments directly in the report generation window.

To learn more about the report creation, see <u>Reports</u> section.

4.8 SmartMaps

4.8.1 Overview

Smart maps differ from the traditional ones due to their dynamic operation. Smart maps include devices which meet the specified conditions at the given moment. It is possible to set the refresh frequency for the map and for the set of conditions (i.e. filter) to be checked.

The operation of smart maps is based on user-defined filters. To enable the proper operation of the smart map, associate it with an appropriate filter.

Related topics

Dilters 109

Creating a filter

Creating a SmartMap

Departments 107

4.8.2 Filters

The following table presents the conditions, which can be used for filter creation:

Group	Conditions
Host properties	• Name
	Info1/Info2
	Device type
	Server / Router
	Importance
	Status
Monitoring services	• Service installed (e.g. SMTP)
	Working/not working
Monitoring counters	Counter installed (e.g. CPU)
Alerts	Open alerts exist
Agents	Agent installed
	Agent working/not working
	Agent version is outdated

Departments	Department nameDevice without assigned department
Software inventory	Installed application existsThe given application is not installed

4.8.3 Creating a filter

To create a filter:

Select Filters for smart maps from the Tools page on the ribbon. In the Managing filters window, click the
 Add filter button.

Axence nVision 11								
Main Tools About nVision								
10 10 0 0 0 0					2		A. 2.	
							Filters for smart maps Options	
Devices Users Assets	NV Axence nVision 11			• ×				
	Manage your filters	•	_					
All devices (Atlas)		ns <u>A</u> dd filter <u>E</u> dit f	filter <u>R</u> emove filter					
CUSTOM MAPS	Filtr 1 Firefox	mozilla						
	chrome	mozina						
✓	Filtr 23 Workgroup							
Sala operacyjna	test							
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B SMARTINES								
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-d ₀ firefox -d ₀ Firefox								
do Mapa1 👝 10				Close				

In the Filter conditions dialog, enter Filter name and Description. Then set the filter conditions. To add another condition, click the New condition button. To use an alternative instead of the sum of conditions, click the word <u>all</u> – to change it to <u>at least one of</u>. An example of a filter with conditions is presented in the image below.

v Filtering condition					×
Filter Configure filtering condition	ons				
Filter name:					
Description:					
Match all of the following rules:					
Opened alerts 👻	greater than 🛛 🔻	0	÷		۲
New condition					
Preview				<u>O</u> k	Cancel

3. To view the list of devices meeting the defined conditions, click the **Preview** button. When the changes are accepted, the newly created filter will appear in the filter list.

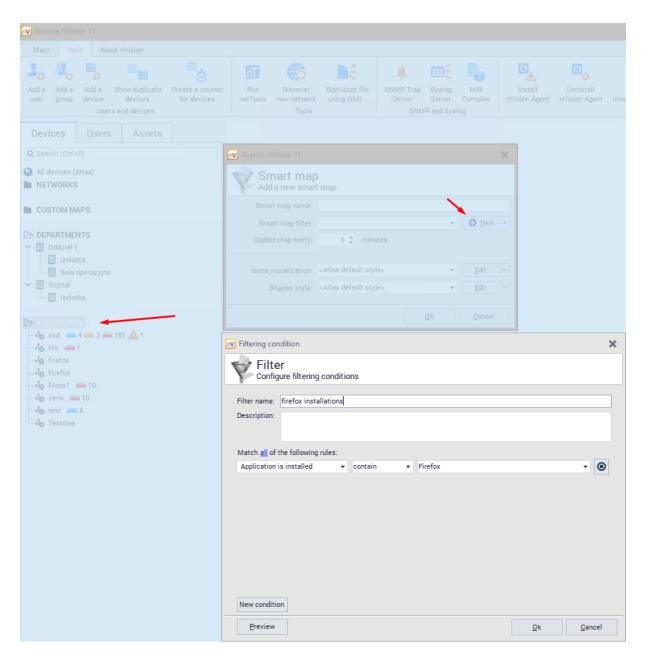
4.8.4 Creating a SmartMap

To create a smart map:

- 1. Right click the **SmartMaps** in the list in the left part of the nVision window. Select the option **New** *I* **Smart map**.
- 2. In the smart map properties window, enter the **Name** and select a **Filter** from the list which will be associated with the created map. If such a filter has not been created yet, expand the menu at the

Edit button, select the ^C **Create new** option and proceed according to the <u>Creating filter</u> description.

3. Set the map refresh time and visualization styles. In the case of smart maps it is not possible to set the graphical elements manually – smart maps are created automatically.



4.9 ActiveDirectory devices

nVision enables the import and synchronization of data from ActiveDirectory. The following objects can be synchronized:

- Users,
- Groups
- · Computers,
- · Organizational units

Adding a domain controller is described in the next chapter.

After successful synchronization with the domain, information about organizational units of the devices should be visible in host information window:

113

ZENDESKSAMU IP. 192.168.56.1 DN	RAJ- 5: ZendeskSamuraj-MJ.axence.local	Axence nVision Agent Connected Remote access	RDP • NetBIOS (TCP) • SMB3 •	Device status OK
GENERAL	PERFORMANCE AND RESOURCES			
PERFORMANCE	CPU RAM			Total time Session
HARDWARE	-(30%)- Model: -(30%)- (34%)- U	otal: 31,71 GB sed: 10,67 GB ree: 21,04 GB	Up time Ok Warning	60d 1h 44r 56d 5h 43r 3d 19h 1r
SOFTWARE	System disk S.M.A.P.T. St	atus	Down	2h 22m
ASSETS	Total: 232,27 GB C: Samsun (44%) Used: 102,87 GB D: Samsun	3 SD 870 EVO 250GB ATA Device (3 SSD 750 EVO 120GB ATA Device 1 10 SF0612C ATA Device 750B		56
FILES	Free: 129,41 GB	A STORIZO XI K DEVICE I SAB	Open alerts: 0	
			Open alerts: 0	View Configure
SNMP	Basic information:		Open alerts: 0	view Contigure
	Basic information: Device name: ZENDESKSAMURAJ-	Role: 📄 Server 📄 Router	Upen alerts: U	view Configure
	Device name: ZENDESKSAMURAJ- Importance: Normal •	Info 1: axence.local	Upen aierts: U	view i configure
WINDOWS	Device name: ZENDESKSAMURAJ- Importance: Normal • Department: Wsparcie • Clear		Upen aierts: U	view Configure
WINDOWS	Device name: ZENDESKSAMURAJ- Importance: Normal •	Info 1: axence.local	Upen aierts: U	view Configure
WINDOWS	Device name: ZENDESKSAMURAJ- Importance: Normal • Department: Wsparcie • Clear Visualization style: «Map default style» • Edit Type: Windows 10 • Manu	Info 1: axence.local Info 2: ZendeskSamuraj-MJ ge ge	Upen aierts: U	view i conigure
WINDOWS	Device name: ZENDESKSAMURAJ- Importance: Normal • Department Wsparcie • Clear Visualization style: Map default style> • Edit	Info 1: axence.local Info 2: ZendeskSamuraj-MJ ge ge	Upen aierts: U	view i compute
WINDOWS	Device name: ZENDESKSAMURAJ- Importance: Normal • Department: Wsparcie • Clear Visualization style: «Map default style» • Edit Type: Windows 10 • Manu	Info 1: axence.local Info 2: ZendeskSamuraj-MJ ge ge	Upen aierts: U	view i compute

It is also possible to display all devices belonging to the selected organizational unit. To do this, select a specific organizational unit from the devices tab:

NV Axence nVision 12									– 8 ×
Main Tools About nVision									
Generate MSI packages Print bar Assets	plication catego mage templates nfigure license t	Aud	trianage dev	ice permissio stee permissi	· · · ·		erts <u>O</u> pen	Open Open AdminCenter	Options
Devices Users Assets	User ma	chines	Computers (49)	Agents					
Q Search (Ctrl+F)	🚽 Active	<u>D</u> irectory c	ontrollers					F	ilter Q
All devices (Atlas)	*	Devi	ice	Agent		Computer			
NETWORKS	* Status	IP	Info	Status	Name	DNS Address	Operating system		
_	_	192.168	axence.local La	•			Windows 10 Pro 10.0 (1904.		
CUSTOM MAPS	_	192.168	axence.local	•			Windows 10 Pro 10.0 (1904.		
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ACTIVE DIRECTORY		192.168	axence.local Ze	•			Windows 10 Pro 10.0 (1904.		
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Part V

5 nVision Agent

5.1 Introduction

Agents are programs running on monitored hosts. They are necessary for:

- User activity monitoring,
- Hardware and software inventory,
- DataGuard protection and
- HelpDesk (some features).

5.2 Basic information about Agents

Security

All information sent by the Agent is secured with TLS 1.2. The database is also password protected. To ensure that only one nVision instance can communicate with the Agent, set the Agent password in nVision.

Agent-generated network traffic

All data are compressed before sending and uncompressed after reaching nVision. Agents send small packages every few hours (this parameter can be set in nVision). Daily traffic generated by a single Agent is approx. 100 kB. The first package sent after Agent installation can be bigger (up to approx. 500 kB). The Agent is updated automatically when a new nVision installation is detected. This operation can increase the network traffic (it is necessary to send the Agent's installation file). To prevent the network from being significantly burdened, the number of connections between Agents and nVision can be limited to a single connection (Agents will be updated one after the other).

Resources

An Agent stores approx. 30 - 50 MB of data. CPU usage should be very low (0 - 5%), up to 15% for short periods. One module, which can cause a significant CPU load is the monitoring of data sent by the users. It is caused by a Windows mechanism, which can appear on older systems, sending large amounts of data (e.g. database servers). Disabling network traffic monitoring in the profile of an Agent installed on such a computer is recommended.

Features

Files executable by Agents must be added to the exception list of the anti-virus software and DEP list in Windows. The nVision Agent has the function of e-mail monitoring and website blocking. These functions use TCP/IP stack integration and are disabled by default. This results from the fact that anti-virus software does not allow for correct integration and can lead to connection loss.

5.3 Installing and uninstalling Agents

5.3.1 Overview

The Agent can be installed in several ways. Select the one which is most appropriate to your needs:

- Installation by means of Active Directory (GPO) with the use of MSI installer 117,
- Remote installation with the use of the anti-virus software management console [119],
- Manual installation 119.

Installing a new version of the Agent

The Agent has an automatic update mechanism. It checks for a new Agent version every time it connects with nVision. If a new Agent version is available (after you install a new nVision version), the Agent will download it and restart automatically.

Agent archiving

For more information on how to uninstall Agent and release its license without losing the user activity data, see <u>Agent archiving</u> to hapter.

Uninstalling Agents

Refer to Uninstalling Agents 120 topic.

5.3.2 Installation by means of Active Directory (GPO) with the use of MSI installer

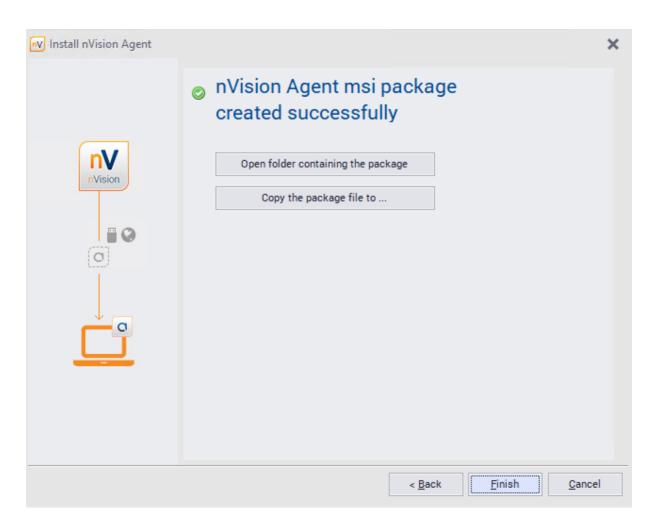
MSI Agent installation package

The following chapter describes how to prepare an MSI Agent installation package. It can be used both for installation through Active Directory and for manual installation on selected computers. In such cases please remember that MSI installation is performed in the non-interactive mode. To install the Agent service, the installation requires local computer administrator rights.

1. Select Install nVision Agent on Tools tab

nv Install nVision Agent				×
	Prepare MSI packa	age		
	nVision IP or DNS address: Providing nVision IP or DNS Comunicate with nVision right Choose this option if you want to workstations with the use of MS - distributed through Active Dire - distributed through Active Dire - distributed through antivirus m - located on a network share - located on a Flash drive <u>Read more about distributing m</u> Download and install Agent on L	nt after the installation pr to perform nVision Agent SI package: ectory's GPO policy nanagement console on v <u>si package.</u>	installation on	
		< <u>B</u> ack	<u>P</u> repare	<u>C</u> ancel

- 2. Give the IP address where the Agent will send its data to. By default, this is the address of the computer where nVision runs. However, if the Agent is installed on a computer working outside the company and the Agent will send the data through the Internet, enter here the public IP address or the DNS name of the router where the TCP 4434 port will be redirected to the nVision machine. The entered address is permanently stored in the MSI package built on the next step. To change the address, you need to rebuild the package.
- **3.** Click one of the buttons, respectively, to open the folder with the prepared MSI installation package or to copy it to the specified folder.



Related topics

Agent installation with use of Active Directory [638]

5.3.3 Remote installation with the use of the anti-virus software management console

The generated Agent installation package can also be distributed with the use of remote anti-virus software management consoles. Please refer to your software developer's guides in order to remotely install nVision Agent.

5.3.4 Manual installation

In order to install Agents manually, perform one of the following:

- Copy nvagentinstall.exe file on flash memory drive or network resource (this file is located in the "Agents" subdirectory of the nVision directory). Execute the file on each computer where you want to install the Agent.
- You may also prepare an MSI installation package and execute it on each computer or distribute by means of Active Directory GPO (details in the <u>Installation by means of Active Directory (GPO) with the use of MSI installer</u> the second sec

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5.3.5 Agent archiving

The Agent archiving tool allows to disable Agents on devices, which should not be monitored, without the loss of data collected by the Agents. Archiving of Agent data has the following results:

- Agent is uninstalled and its license is **released**,
- user activity data are saved,
- inventory and assets data are **deleted**,
- service and counter monitoring is **disabled**.

Archiving of Agent data

To archive Agent data:

- 1. In nVision, right click the icon of device with Agent.
- 2. Choose Agent / Archive. Click OK.
- 3. After archiving the Agent is presented with "Archived" status.

5.3.6 Uninstalling Agents

To uninstall Agents remotely, select the **Agent / Uninstall...** option from the context menu of each host. Uninstallation is performed without the use of WMI, so Agents will be uninstalled whether WMI is or is not enabled on the host. Agents will be uninstalled automatically after starting up and connecting to the console.

You can also uninstall the Agent manually by executing the file unins000.exe located in the Agent folder.

5.4 Agent configuration

5.4.1 Agent password

Agent in Axence nVision® is password protected from being uninstalled by the user (even that with the administrator rights in Windows).

The password that protects the Agent from being uninstalled is simultaneously the password of the **Administrator** account built into nVision (the basic account with **Administrator** login – its name is bold in the view of the <u>Users</u> window). The Agent is automatically password protected after the installation, upon the first successful connection to the nVision Server.

Hagent's password in Axence nVision® 8 and older versions.

To change the Agent password in the Atlas:

- 1. Choose Atlas / Properties.
- 2. In the Atlas properties window, click the Agent password button.
- 3. Enter old and new passwords, then press **OK**.

5.4.2 **Profile management**

If many Agent profiles are defined, it is recommended to use the profile management tool for profile creation and editing. For this purpose:

1. Select the **Manage your Agent profiles** option on the ribbon (in the **Tools and options** page). The **Manage configuration profiles** window will open.

W Axence nVision 11		_ # ×
Add a Add a Add a Show duplicate user group device devices Users and devices		
	w Manage configuration profiles	
All devices (Atlas) NETWORKS	Manage your profiles Contraction of the Contraction	
CUSTOM MAPS	Profile name	
OPANTMENTS OPANTMENTS Opanetyn Opanetyn Opanetyn Opanetyn Opanetyn Opanetyn	[befault profile	
-do firefox	place	

- 2. The defined profiles are displayed in the list. To **Add**, **Edit** or **Remove profile**, use the appropriate button.
- If a new profile is to be created, click the Add profile button and in the displayed Agent configuration window enter the name of the created profile and set its properties. The properties are described in the Agent settings section.

5.4.3 Profiles

5.4.3.1 Profiles - introduction

Profiles are sets of policies. A single profile is composed of one policy of each kind. The configuration and management of profiles, i.e. viewing, adding, editing, deleting profiles (the default policy cannot be removed) or indicating which profile is to be the default one, are only available to the administrator with the appropriate rights.

The profiles and <u>policies</u> have been introduced as a new solution for the <u>Agent Profiles</u> that have ceased to exist since Axence nVision® version 13.

Axence nVision 13				×
🛛 Add 🛗 Delete 🗹 Properties 📀 Set as default Automations				
Profile name 🔺	Default	Used by		
Default profile	⊻	226		
		C	lose	

Related topics:

- Creating a profile
- Setting the default profile
- Editing a profile
- Deleting a profile
- Profile automations
- Dolicies

5.4.3.2 Creating a profile

- To create a new profile:
- 1. In the nVision console, click the **Tools** tab.
- 2. Click the Manage profiles button.
- 3. In the Profile Management window, click the **Add** button or right-click in the list of profiles and then click the **Add** button.
- 4. Configure the profile, and then click **OK**.

Once you have completed the steps above, the profile you have created will be displayed in the list of profiles.

5.4.3.3 Default profile

The default profile is the profile assigned to each new Agent detected in nVision (unless the <u>profile</u> <u>automation</u> mechanism assigns a different profile to the Agent). The default profile cannot be deleted.

To set the default profile:

- 1. In the nVision console, click the **Tools** tab.
- 2. Click the Manage profiles button.
- 3. Click the profile that appears in the list of profiles (it cannot be set as the default one!) and click the **Set as default** button or right-click the profile you want to set as the default one, and then click the **Set as default** button.
- 4. Click in the default profile setting confirmation window.

Once you have completed the steps above, the selected profile will be the default profile (the **Default** column checkbox in the list of profiles is checked).

5.4.3.4 Editing a profile

To edit a profile:

- 1. In the nVision console, click the **Tools** tab.
- 2. Click the Manage profiles button.
- 3. In the Profile Management window, click the selected profile, click the **Properties** button above the list or right-click the selected profile in the list and then click the **Properties** button.
- 4. Configure the selected profile, and then click OK.

Once you have completed the steps above, the profile configuration will be edited successfully.

5.4.3.5 Deleting a profile

To delete a profile:

- 1. In the nVision console, click the **Tools** tab.
- 2. Click the Manage profiles button.
- 3. In the Profile Management window, click the selected profile, click the Delete button above the list or right-click the selected profile in the list and then click the **Delete** button.
- 4. Click Yes in the profile deletion confirmation window.

Once you have completed the steps above, the selected profile will be deleted and will not be displayed in the list anymore. If you delete a profile that is used in a given device, the default profile will be set for that particular device.

Note! The default profile cannot be deleted. If you want to delete a profile that is the default one, you must first set a different default profile.

5.4.3.6 Automations

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5.4.3.6.1 Profiles automations

The profile automation mechanism allows you to create a rule to assign specific profiles to new devices. The automation can replace the assignment of the default profile. The administrator who has access to all maps and departments in nVision can view, create, reorder, edit, and delete rules.

Axence nVision 13				×
👼 Manage your profiles				
O Add 🗑 Delete 🗹 Properties Set as default 🛛 Automations				
Profile name 🔺	Default	Used by		
Default profile	⊻	226		
			Close	

5.4.3.6.2 Creating a profile automation

To create an automation rule:

- 1. In the nVision console, click the **Tools** tab.
- 2. Click the **Manage profiles** button.
- 3. Click the **Automations** tab.
- 4. In the Profile Automation window, click the **Add** button or right-click in the list of profiles and then click the **Add** button.
- 5. Configure the rule (the Rule name and the defined Condition are required).
- 6. Click OK.

Once you have completed the steps above, the new automation rule will be displayed in the list.

5.4.3.6.3 Editing a profile automation

To edit an automation rule:

- 1. In the nVision console, click the **Tools** tab.
- 2. Click the Manage profiles button.
- 3. Click the Automations tab.
- 4. In the Profile Automation window, select the automation and click the **Properties** button or right-click the specific automation line and then click the **Properties** button.

- 5. Configure the rule (the Rule name and the defined Condition are required).
- 6. Click **OK**.

Once you have completed the steps above, the automation rule properties will be updated.

5.4.3.6.4 Deleting a profile automation

To delete an automation rule:

- 1. In the nVision console, click the **Tools** tab.
- 2. Click the Manage profiles button.
- 3. Click the Automations tab.
- 4. In the Profile Automation window, select automation and click the **Delete** button or right-click the specific automation line and then click the **Delete** button.
- 5. Click **Yes** in the automation rule deletion confirmation window.

Once you have completed the steps above, the selected automation rule will be deleted and will not be displayed in the list anymore.

5.4.4 Policies

5.4.4.1 Policies - introducton

Policies are sets of defined settings that are automatically applied by the Agent installed on a specific machine. The Agent periodically verifies that the policy settings and the settings of the particular machine are identical. If not, the Agent reconciles them so that they are compatible with the assigned policy. Each policy has its own name. In addition, policies are divided into different types which are distinguished by the subject of the settings they regulate. Policies of different types are clearly separated from each other, i.e. they are not displayed in the same list and their previews are available in separate tabs. In each policy type, there is a so-called default policy (which is automatically indicated in each newly created profile). The default policy cannot be deleted. The configuration and management of policies, i.e. viewing, adding, editing, deleting policies (the default policy cannot be removed) or indicating which policy is to be the default one, are only available to the administrator with the appropriate rights.

To display the policy configuration panel:

- 1. In the nVision console, click the **Tools** tab.
- 2. Click the Manage button.
- 3. In the drop-down list, click the **Manage policies** button.

Available policy types

- 1. Scanning user files
- 2. Windows Defender
- 3. Windows Firewall
- 4. nVision Agent compatibility

Related topics:

- Creating a policy
- Distance of the second second
- Editing a policy
- Deleting a policy

5.4.4.2 Creating a policy

To create a new policy:

- 1. In the nVision console, click the **Tools** tab.
- 2. Click the Manage button.
- 3. In the drop-down list, click the Manage policies button.
- 4. In the Policy Management window, click the **Add** button or right-click in the list of policies and then click the **Add** button.
- 5. Configure the selected policy type, and then click OK.

Once you have completed the steps above, the policy you have created will be displayed in the list of policies.

5.4.4.3 Setting a default policy

The default policy is a policy that is automatically assigned to each newly created profile. The list of policies of each type must include the default policy. The default policy cannot be deleted.

To set the default policy:

- 1. In the nVision console, click the **Tools** tab.
- 2. Click the Manage button.
- 3. In the drop-down list, click the **Manage policies** button.
- 4. Click the policy that appears in the list of policies (it cannot be set as the default one!) and click the Set as default button or right-click the policy you want to set as the default one, and then click the Set as default button.
- 5. Click Yes in the default policy setting confirmation window.

Once you have completed the steps above, the selected policy will be the default policy. If the selected policy is already the default policy, the **Set as default** button will be grayed out.

5.4.4.4 Editing a policy

To edit a policy:

- 1. In the nVision console, click the **Tools** tab.
- 2. Click the **Manage** button.
- 3. In the drop-down list, click the **Manage policies** button.
- 4. In the Policy Management window, click the selected policy, click the **Properties** button above the list or right-click the selected policy in the list and then click the **Properties** button.
- 5. Configure the selected policy, and then click OK.

Once you have completed the steps above, the policy configuration will be edited successfully.

5.4.4.5 Deleting a policy

To delete a policy:

- 1. In the nVision console, click the **Tools** tab.
- 2. Click the Manage button.
- 3. In the drop-down list, click the Manage policies button.
- 4. In the Policy Management window, click the selected policy, click the **Delete** button above the list or right-click the selected policy in the list and then click the **Delete** button.

5. Click Yes in the policy deletion confirmation window.

Once you have completed the steps above, the selected policy will be deleted and will not be displayed in the list anymore. If you delete a policy that is used in the profile, the default policy will be set for that particular profile.

Note! The default policy cannot be deleted. If you want to delete the policy that is the default one, you must first set a different default policy.

5.4.5 Agent settings

The data collected by the Agent and its behavior depend on:

- Agent profile configuration,
- Agent configuration for selected group or user.

The individual settings are described in detail in the following subsections.

5.4.5.1 Agent profile settings

In order to change the Agent's profile, select the **Manage your Agent profiles** option on the ribbon (in the **Tools** page).

Agent profile settings are divided into 2 tabs:

General

General settings allow to:

• enable scanning user files by extensions.

The legality of the files kept by the user may constitute a problem. Therefore, nVision allows files with an extension suggesting the involvement of copyrights to be monitored. It is possible to add and remove the files from the list of monitored user files. In particular, to add the most common multimedia file extensions to the list, click the **Add multimedia extensions** button. To monitor a different file type, enter their extension in the list (comma separated),

• define the TCP ports on which traffic in applications is to be blocked by the Agent.

Compatibility

- Monitoring bandwidth usage Allows the monitoring of total inbound and outbound transfers, with a division into local and Web transfer, and the bandwidth usage by browsers, e-mail client, etc.
- Application blocking integration

Allows the Agent to block the applications defined in nVision configuration.

• DataGuard integration

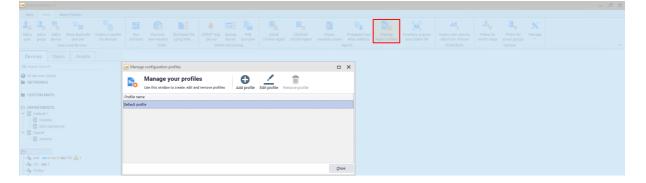
If data protection is enabled, data media used by the user are monitored and access rights management is enabled.

• Integration with TCP/IP stack

If this option is unchecked, blocking websites and monitoring e-mail headers is impossible. If there are problems with specific applications or access to web pages (e.g. internet banking websites) after the integration is enabled on the computer with Agent, add the process names of these applications or domains to the exception list.

• Monitor SSL/TLS traffic

This option allows monitoring e-mail headers even where such correspondence is encrypted.



5.4.5.2 Monitoring and visibility settings

The second part of Agent configuration is Agent monitoring and visibility settings.

These settings can be defined for the Atlas (all users), user groups and individuals. They can be found in different locations:

1. The Users / Atlas info / Settings window:

Avence nVision 11						
Add a Add a Add a Show duplicate user group device devices Uters and devices						
Devices Users Assets	All users Use	Axence nVision 11				
Q Search (Ctrl+F)	Add user / Use Name	Monitoring properties: Atlas				
Hierarchy → GROUPS → 畿 Axence nVision	Axence hVision Ar	DATAGUARD	MONITORING PROFILE AND SETTINGS			
> 🍪 axence.local	Administrator	BLOCKADES	Monitoring			
→ SMART GROUPS	Super Administrat	SETTINGS	Application usage Visited web pages	Monitor •		
dg, Testowa (2)	Administrator	DEFAULT PERMISSIONS	Printouts	Monitor +		
			E-mails Bandwidth usage	Monitor Do not monitor		
			Work time	Do not monitor		
	Mikuz@DESK1		Breaks in activity	Monitor 👻		
	axence.local\A		Save breaks longer than	5 🗘 minutes		
	acronis@axen		Time of monitoring			
	andrite) gontar		Time range	Between		
	anna, kaminski			 ✓ Tuesday 		
	anna.kikiica@i			🗹 Wednesday		
	Helpdeskowie			🗹 Thursday		
	bartosz bedna			✓ Friday		
	dorian.pozyczi			🗹 Saturday		
	gabriela.kowal					
	grzegorz.oleka			<u>OK</u> <u>Cancel</u>		

The Group information / Settings window.

2. The Group information / Settings window.

Atlas is the "general" setting, which by default is inherited by groups and users. However, this behavior can be changed for individual units by navigating to the above-mentioned setting windows.

The settings include a few sections:

• Monitoring

The Administrator can specify what information is to be collected by the Agent. In addition, it can be determined here whether or not the breaks in activity (i.e. the time when the user does not type any characters from the keyboard or does not use the mouse) are to be monitored.

Axence nVision 11			
Monitoring properties: Atlas			
DATAGUARD	MONITORING PROFILE AND SETTINGS		
BLOCKADES	Monitoring		
SETTINGS	Application usage Visited web pages	Monitor	
DEFAULT PERMISSIONS	Printouts	Monitor 👻	
	E-mails Bandwidth usage	Monitor 👻	
	Work time	Do not monitor 🗸	
	Breaks in activity	Monitor 👻	
	Save breaks longer than	5 💠 minutes	
	Time of monitoring		
	Time range	Between 08:00:00 to 15:59:00 ✓ Monday	*
		🗹 Tuesday	
		☑ Wednesday	
		✓ Thursday	
		✓ Friday ✓ Saturday	
		V Saturday	
			OK Cancel

Monitoring time

This section defines the time periods during which the Agent should monitor the user activity.

Axence nVision 11		
Monitoring properties: Atlas		
DATAGUARD	MONITORING PROFILE AND SETTINGS	
BLOCKADES	E-mails	Monitor 👻
SETTINGS	Bandwidth usage Work time	Do not monitor
DEFAULT PERMISSIONS	Breaks in activity	Monitor 👻
	Save breaks longer than	5 💠 minutes
	Time of monitoring	
	Time range	Between ▼ 08:00:00 ♀ to 15:59:00 ♀
		Monday
		✓ Tuesday
		✓ Wednesday
		M Thursday
		V Friday
		✓ Saturday
		🗹 Sunday
	Desktop preview and remote access	
	Allow desktop preview	Allow 👻
	Allow remote access	Allow 👻
		<u>Q</u> K <u>Q</u> ancel

Desktop preview and remote access

The settings in this section allow you to define whether or not:

- remote access or desktop preview is allowed,
- the user must agree for taking over control of their machine,
- the user is informed when control of their machine is taken over.

• Agent visibility

The last section determines the visibility of the Agent and its icon on the taskbar.

Axence nVision 11			
Monitoring properties: Atlas			
DATAGUARD	MONITORING PROFILE AND SETTINGS		
BLOCKADES		 ✓ Tuesday ✓ Wednesday 	
		✓ Thursday	
SETTINGS		Friday	
		⊠ Saturday	
DEFAULT PERMISSIONS		☑ Sunday	
	Desktop preview and remote access		
	Allow desktop preview	Allow 👻	
	Allow remote access	Allow 👻	
	Settings for the above features		
	Show notification	Do not notify 👻	
	Ask user for approval	Do not ask 👻	
	Allow if the user is not responding	Allow 👻	
	Agent visibility		
	Show Agent icon	Show 🗸	
	Show Agent splash screen	Do not show 🔻	
	Show user's activity monitoring Info	Do not show 🔻	
			<u>O</u> K <u>C</u> ancel

5.4.6 Web filtering profile

The Agent profile allows selected websites to be blocked. To ensure proper blocking, it is necessary to check the **Turn on TCP/IP stack integration** option in the **Compatibility** tab. To learn more, see the <u>l</u> <u>cannot block websites</u> [132] section.

Website blocking is performed in a manner independent of the application or port. Websites are recognized on the basis of the request prefix. Blocking is executed on the level of:

- IP address,
- exact domain (on http level),
- regular expressions for the domain (also on http level).

Adding filtering rules is described in section How to block access to selected websites? [17].

5.4.7 Integration with TCP/IP stack

Monitoring e-mails and blocking websites is only possible for machines with the installed Agent and enabled integration with the TCP/IP stack. To learn more on Agent installation, see the <u>Installing and</u> <u>uninstalling Agents</u> [117] section.

The following protocols are supported at the moment: HTTP, HTTPS, SMTP:25, SMTP:587, SMTP via SSL, POP3 via SSL and POP3:110. The following protocols are not supported at the moment: IMAP, MAPI.

Enable integration with TCP/IP stack

If the Agent is installed, the reason for the problems with monitoring e-mails and blocking websites may be a disabled integration with the TCP/IP stack. By default, this integration is disabled due to the necessity of earlier tests, mostly in the scope of cooperation with anti-virus software. To enable TCP/IP stack integration:

- 1. Select the Managing Agent profiles option in the menu bar (in the Tools and options page).
- 2. Create a new profile or select the profile used by Agents, and then click the *Edit profile* button.
- 3. In the profile configuration, check the **Turn on TCP/IP stack integration** option in the **Compatibility** tab.

N Axence	nVision 11			×
Agent	configuration			
	Profile name:	Default profile		
General	Compatibility			
DataG	uard			
🗹 Da	ataGuard integration	enabled		_
Users				
	plication blocking in	tegration enabled		
	onitoring of bandwid	-		
	P/IP stack integrati			
			filtering and e-mail monitoring. vare, it may be necessary to restart the computer with the Agent after changing the options in	
this	s section.			
_	TDI driver only Monitor SSL/TLS tr	affic		
	cluded processes	Excluded domains		7
Pro	ocess name			
			<u>о</u> к <u>с</u> а	ncel

- On the tested computers, add all contents of the directory c:\Program
 Files\Axence\nVision Agent 2\ including subfolders to the exception list of anti-virus
 software.
- 5. Restart the computers.

6. If no negative symptoms, e.g. network loss, occur during the next few system restarts, it means that TCP/IP stack integration can be toggled on for the remaining machines.

5.5 "Agents" view

The "Agents" view in the main nVision window presents the following information:

- host status,
- host name,
- Agent version,
- Agent online (yes/no),
- last connection time,
- last data received,
- pending instructions (Agent uninstallation, Atlas address change, host data reset),
- status,
- configuration,
- screenshots,
- free disc space,
- free physical memory,
- CPU usage (average for the last minute),
- last logged-on user,
- bandwidth data (last hour)
- and other.

Axence nVision 11																– 🗗 🗙
Main Tools About nVision																
🚣 💑 🍓 📲 👘	Π	(i) 🗎	🔺 📖		₫.	Ø	→	S 🔤	, 1	ակի 🗊	- A-	- 4,	× 🕺			
Add a Add a Add a Show duplicate Create a counter user group device devices for devices		Discover Distribute file www.network using WMI	SNMP Trap Syslog Server Server		Install nVision Agent	Uninstall nVision Agent		opagate new Mana tlas address Agent pr		ory scanner Import user activi utable file data from nVisio				2		
Users and devices		Tools	SNMP and Sy		Transfer Agens	invision Agent	Agen		onica execu	SmartTime	Sindicting	Options				^
Devices Users Assets	All devices (A	tlas) List (236) A	gents (2) Hardwar	e History												
Q Search (Ctrl+F)															Filter Q	
All devices (Atlas)	•	Dev	ice				Agent			Configuration						System
NETWORKS	ø Status	Name	IP	Info	Version	Status	Last data received	Pending instruction		Profile		Status	System disk :	Free physical me	CPU usage	Last logged-on user
-	-	WIN10	192.168.69.206	ASD 123	· 2.0.4.2874	8 🦻	23.03.2020 16:00			< Use map "192.168.69.0/24" profil		<u>a</u>	n/a	n/a		n/a
CUSTOM MAPS	-	DESKTOP-NOQNHI1	192.168.0.108	WORKGROUP	@ 2.0.4.2874	8 🗢	Today, 11:05:00		O <	< Use map "192.168.0.0/16" profile	: Default profile >	8	28,53 GB	1,79 GB	31 1	Mikuz@DESKTOP-N
DEPARTMENTS -																

Part VI

6 Users in nVision

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6.1 General information

User accounts in nVision can be created in a few ways:

- manually via the Administrator in nVision (all types) in the Users tab, after clicking the Add user button,
- via the Administrator by downloading the account list from Active Directory controller in the **Users** tab, after clicking the **Active Directory controllers** button and configuring the domain controller,
- independently by the users (only the "User" type) in the HelpDesk web interface, without additional account activation, with activation via e-mail, or with manual activation via the Administrator,
- logging in to the Windows account should result in the creation of nVision account for this user (unless an account with such a SID already exists in nVision). Each Windows local account should have a unique SID.

The list of all users is available in the **Main / Users** tab. The list is divided into sections corresponding to the individual roles in nVision:

Main Tools About nVision																- 8 :
Add a Add a Show duplicate Greate a cou		Xistribute file using WML SNMP Trap Server SNMP and	og MIB er Compiler	Install NVision Agent	Uninstall nVision Agent		Propagate new Atlas address	Manage Agent profiles	Inventory scanner executable file	Import user data from Smart1	T activity nVision s	Filters for mart maps	Filters for smart groups Options	X Manage		
Devices Users Assets	Axence nVision Users														-	
Q Search (Ctrl+F)	G Add user III Hemove use	r Merge users 🛛 🏭 Active Direc	tory controllers Use							Device					Filter Q	
All users	e Name	Full name	 E-mail 	Domain	Activated	Enabled	Last login	Created		IP	Anent coline	Working	Activity today		Activity Last application tit	ast name LIDI
GROUPS GROUPS GROUPS Generation Generation Generation Generation	Axence nVision Administr	ator Administrator		Axence nVision	n 🗹	V	06.03.2020 09	01.07.2019 16								
SMART GROUPS	📩 Marcin1	Marcin Marcinkowski		Axence nVision	n ⊠	1		05.11.2019 09			2					
	Administrator		mikolai matu	Axence nVision	n M	V	23.03.2020 10	02 07 2019 14			A					
	Miko	Testowy user miko		. Axence nVision		⊻	26.02.2020 10				ø					
	User															
	Mikuz@DESKTOP-NOQ.			Axence nVision	n 🗹	2	25.03.2020 10	24.03.2020 14	DESKTOP-NOQNHI1	192.168.0.108	۰		n/	a nVision.exe	Axence nVision 11	nttps://www.r T
	📩 tester@WIN10VM			Axence nVision		1	10.10.2019 09				2					
	🔒 Helpdeskowiec	asd		Axence nVision	<u> </u>	ĭ.	05.08.2019 11				ø					
	- 🔥 Hello	Ole		Axence nVision	n 🕅	N	20.03.2020.10	11.07.2019 11			<i>2</i>					

6.2 Access log

The access log is located in the **Main / Users / Access Log** tab. It stores any operations taken by the Administrator with regard to user accounts (e.g. creation of an account, modification of settings).

W Axence nVision 11					– 8 ×
Main Tools About nVision					
Generate MSI nackanes Print har Assets	lication categories hage templates figure license type	Audit	Printout Configure	Brots View Arets Databalistican Arroancements Open Open Opens Brots ad allers HelpOcek HelpOcek Brantime Databalistican Arroancements Open Opens Opens	^
Devices Users Assets	All users	Users (64) Console log			
Q Search (Ctrl+F)		🗂 🗂 🛄 🛗 marzec 2020 • 🔒	3		Filter Q
All users		Date & time • Object	Action	Details	
All users		24.03.2020 14:10:27 Console	Logged in	IP Address = 127.0.0.1; Computer name = Mikuz@DESKTOP-N0QNHI1	
▷ GROUPS		24.03.2020 13:22:39 Console	Logged out	Adres IP = 127.0.0.1; Nazwa komputera = Mikuz@DESKTOP-NOQNHI1	
> 😬 Axence nVision		24.03.2020 13:22:35 Console	Logged in	Adres IP = 127.0.0.1: Nazwa komputera = Mikuz@DESKTOP-NOONHI1	
> 🔠 axence.local		23.03.2020 16:00:18 Console	Logged out	Adres IP + 127.0.0.1; Nazwa komputera + Miku@WIN10	
> 🐣 Built-in		23.03.2020 10.00.18 Counter	Created	Nazwa = HTT(; Typ = Zmiana treści strony; Urządzenie = WIN10, 192.168.69.206	
SMART GROUPS		23.03.2020 10.22:35 Counter	Created	Nazwa – www.wp.pl; Typ – Zmiana treści strony; Urządzenie – WIN10, 192,168,69,206	
- de Testova (2)		23.03.2020 10:22:35 Counter 23.03.2020 10:22:03 Device	Viewed	Urządzenie – WINTO, 192, 168,69,206	
•		23.03.2020 10:22:03 Device 23.03.2020 10:22:02 Console	Logged in	Adres IP = 127.0.0.1; Nazwa komputera = Miku@WIN10	
		23.03.2020 10:21:02 Console	Logged out	Adres IP = 127.0.0.1; Nazwa komputera = Miku@WIN10 Adres IP = 127.0.0.1; Nazwa komputera = Miku@WIN10	
		23.03.2020 10:12:54 Console	Logged in	Adres IP + 127.0.0.1; Nazwa komputera + Miku@WIN10	
		21.03.2020 10.12.54 Console	Logged out	Adres IP = 127.0.0.1; Nazwa komputera = Miku§WIN10	
		20.03.2020 00:01:26 Console	Viewed	Urządzenie – WIN10, 192,168,69,206	
		20.03.2020 11:11:52 Device 20.03.2020 10:00:56 User	Modified	Nazwa = Hello: Ustawienia	
		20.03.2020 10:00:56 User	Viewed	Nazwa = Hello	
			Viewed	Vrazvila = relio Urządzenie = Poseidon3266. 192.168.0.27	
		20.03.2020 09:56:18 Device 19.03.2020 15:13:43 User	Modified	Nazwa = Mikuz; Upravnienia	
				Nazwa – Mikug/WIN10; Urządzenie – WIN10, 192. 168. 69. 206	
		19.03.2020 15:07:13 Desktop preview	W Viewed Viewed	Nazwa = Mikug Wini U, Urządzenie = Wini U, 192. 100.09.200	
		19.03.2020 15:07:12 User 19.03.2020 15:06:42 Console	Logged in	Nazwa = Nikuz Adres IP = 127.0.0.1; Nazwa komputera = Miku@WIN10	
		19.03.2020 14:58:08 Console 19.03.2020 14:55:05 Console	Logged out	Adres IP = 127.0.0.1; Nazwa komputera = Miku@WIN10 Adres IP = 127.0.0.1; Nazwa komputera = Miku@WIN10	
		19.03.2020 14:55:05 Console 19.03.2020 14:48:08 Console	Logged in	Adres IP = 127.0.0.1; Nazwa komputera = Mikugi WIN10 Adres IP = 127.0.0.1; Nazwa komputera = Mikugi WIN10	
		19.03.2020 14:48:08 Console 19.03.2020 10:47:20 License	Modified	Oprogramovanie - Licencja testowa	
		19.03.2020 10:47:20 License	Modified	Oprogramowania = Licencija vezitiva Oprogramowania = Licencija vezitiva	
		19.03.2020 10:37:34 Eldense 19.03.2020 10:36:37 Console	Logged in	Adres IP = 127.0.0.1; Nazwa komputera = Miku@WIN10	
		19.03.2020 10:36:37 Console	Logged out	Adres IP = 127.0.0.1; Nazwa komputera = Miku@WIN10	
		17.03.2020 10:59:20 Console	Logged in	Adres IP = 127.0.0.1; Nazwa komputera = MikugiWIN10 Adres IP = 127.0.0.1; Nazwa komputera = MikugiWIN10	
		16.03.2020 10:59:20 Console	Logged out	Adres IP = 127.0.0.1; Nazwa komputera = MikugiWIN10 Adres IP = 127.0.0.1; Nazwa komputera = MikugiWIN10	
		16.03.2020 17:37:03 Console	Viewed	Nazwa = OG audyt; Atlas	
	Administrator	16.03.2020 13:35:50 Report 16.03.2020 13:35:50 Report definitio		Nezwa = DG audyt, Autos	
		16.03.2020 13:35:50 Report definitio 16.03.2020 13:35:33 Report definitio		Nezwe = DG edulyt, nejvit die = Mepe	
		re.us.zuzu 13:35:33 Heport definitio	ii credied		
What's new?	â			Event Log	
Devices: 235 (2 Ok, 3 Warning, 192 Down)	Services: 558	8 (5 Ok, 547 Down) Alerts: 1	(Device with alerts: 1)		

6.3 User information screen

After selection of user from the list, you can navigate to the user information screen.

nV Use	r: Mikuz					_ = ×
	MIKUZ Account: MIKU@WIN10	Icle: ADMINISTRATOR			Create announcement ×	User logged on: n/a Status: Waiting for data
2 _{id}	GENERAL	USER INFO AND STATUS	ROLE AND PERMISSIO	NS Change permissions	ACTIVITY PREVIEW	
ilit	ACTIVITY	User name: Mikuz	Role:	Administrator 🔹	Application: -	
O	SCREENSHOTS	Full name:	Job title:			
å	ASSETS	E-mail address: mikolaj.matuszny@ Account enabled:	axence.r SmartTime: Ticket system:			
	SOFTWARE	Password: Change	-	Full access		
	EVENTS	Created: 02.07.2019 14:17:40		Yes		
U	DATAGUARD	Last login: 23.03.2020 10:22:12 Phones: 70				
A	BLOCKADES					
ø	SETTINGS					
26	PERMISSIONS	Accounts and groups				
		Account type: nVision	Belongs to groups (3			
		Supervisor. n/a	testowa podgrupa	i nv		
		Direct reports: 1 Show				
		Miku@DESKTOP-39LPD00				
		Miku@WIN10				
						Add Remove

This program area provides basic information about the selected person. The following account attributes can be identified:

• User - the name under which the user can log in to the nVision console and to the HelpDesk module,

- Full name,
- E-mail address,
- Desk (and mobile) phone number,
- Role user roles are described in chapter <u>Types of user roles</u>.
- Title,
- Group membership allows to view the groups which the selected user is a member of,
- Superior user that is higher in the hierarchy than the currently selected person. A person who has subordinates will have access to the activity data for each of their subordinates in the SmartTime module,
- Attachments additional attachments related to the selected user.

In addition, the user information screen provides information about user rights in various areas of the program. For accounts created in nVision, you may modify all the above-mentioned attributes.

6.4 Synchronization with Active Directory

It is possible to synchronize users existing in Active Directory with the nVision database. However, it should be borne in mind that this synchronization is performed in one way only, which means that nVision reads data from Active Directory, but cannot make any changes. This means that most of the fields in the user information screen will not be available for editing.

Adding domain controller

To make the synchronization between Active Directory and nVision, add the domain controller. To do this, navigate to the **Main / Users / Active Directory Controllers** tab. Then click the **Add configuration** button and define the required parameters:

Axence nVision 11		
Main Tools About nVision		
Add a Add a Add a Show duplicate for devices for devices Users and devices		MiB MiSion Agent nVision Agent nVision Agent nVision Agent statis address Agents
Devices Users Assets		
Q. Search (Ctrl+F)	🔁 🗚 dd user 🔟 User info 💼 Remove user Merge users 🔛 Act	ive <u>D</u> irectory controllers
All users	Axence nVision 11	
Hierarchy GROUPS Axence nVision	Active Directory domain controllers	S Manage your Active Directory domain controllers.
> 🛞 axence.local > 🛞 Built-in	🕒 Add configuration 🗹 Properties 🛱 Remove 🛛 🛛 Synchronize	e 📄 Synchronization log
SMART GROUPS	Name + Address Description	Last read Synchronization
- do intelektualisci (49) - do Testowa (2)	asx 192.168.0,8	
		W Axence nVision 11
		Adding domain configuration
		* Name: Description:
		Description.
		Synchronization:
		Configuration details
		* Address:
		* Domain:
		* Account:
		* Password:
		OU: e.g. myOU.childOU or leave blank
		Test connection
		QK Qancel
	No connection from external Axence nVision Agents. Check if port	

If the data entered are correct, all users and groups created in Active Directory will be read.

Synchronization of selected organizational units (OUs)

In the configuration of domain controller, you can specify OUs with which the list of user accounts is to be synchronized. Specify OUs in the following form: MainOUName.SubOUName.

For example, when "Axence.Users.Krakow.Support" is entered in the "OU" field, then only the users from the Organizational Unit 'Support' in the Krakow branch of Axence will be taken from the entire forest.local domain:

	×
n configuration	
test	
test	
axence.local	
Axence.Users.Krakow.Support	
Test connection	
<u>O</u> K <u>Cancel</u>	
	test axence.local Axence.Users.Krakow.Support Test connection

Synchronization log

The synchronization log provides information on communication between nVision and Active Directory. This feature may be helpful if you encounter errors related to the synchronization.

Synchronized user attributes

Attribute in Active Directory	Name in nVision
displayName	First name + last name

Attribute in Active Directory	Name in nVision
primaryGroupId	Belongs to group
manager	Superior
Managed by (group setting)	Group manager
title	Title
telephoneNumber	Phone number
mobile	Mobile phone number
mail	E-mail address

6.5 User roles and rights management

6.5.1 Types of user roles

In version 11 of the program, the rights granted to users have been reorganized. The new system of rights identifies three global user roles:

- super administrator,
- administrator,
- user.

The "HelpDesk employee" role which entitles the user to process tickets in the HelpDesk module was moved to the **User information / Rights / HelpDesk** screen.

The individual roles are described in detail below, and the process of granting access rights to specific modules is described in section Management of access to program functions [150].

🗄 Super administrator

- A person having the super administrator rights:
- Can manage the entire program and the rights of other administrators,

- Can manage the rights of any other administrators and super administrators (except for the built-in administrator account). Can create, edit and delete other administrators and super administrators. In particular, they can also edit all properties of their own accounts,
- Has always unlimited access to all system functions. Their access to modules, maps or users cannot be disabled,

User with the super administrator role may be deprived of access to chats to hide their accounts on the contact list.

E Administrator

A person having the administrator rights:

- Cannot grant or take back the administrator or super administrator roles,
- Cannot edit the login, first and last name, e-mail address, password, role and rights in other administrator and super administrators accounts. Cannot also activate/deactivate or delete them,
- Can change their own login, first and last name, e-mail address and password. Cannot change their own roles or rights. Cannot also activate/deactivate or delete their own accounts,
- Can edit the properties of users they have access to (login, first and last name, e-mail address, password, etc.). Cannot change their roles or rights,
- Can have access to the nVision administration console and the selected configuration settings of individual modules,

Can be granted the HelpDesk and SmartTime administrator role (the prerequisite is to have access to the relevant modules).

🛨 Us er

User is a person that does not configure technical aspects of the program, but only uses it within the rights assigned to them:

- Cannot be granted access to the nVision administration console or the module configuration options,
- Cannot play the HelpDesk or SmartTime administrator role,

• Can play the HelpDesk support employee role,

Can be granted access to WebAccess.

6.5.2 Available permissions

This chapter describes the rights that may be granted to users under each of the roles.

Module/fun ctionality	Right	Value	Description
nVision administra tion	Access to the nVision desktop console	Yes/No	User can log in to the nVision administration console.
console	Access to the management of Agent visibility settings	Yes/No	User may manage the settings of the Agent icon visibility and the Agent screen visibility after logging in.
	Access to the Agent menu	Yes/No	User has access to the menu where they can execute remote commands on a machine with Agent (including disabling or uninstalling the Agent itself).
	Access to the WebAccess console	Yes/No	User can log in to the nVision's remote WebAccess interface.
			If user is not the administrator, this option allows to define maps and branches on which the user will be able to open the map view, view the device information and enable remote access.
	Access to maps and branches	Access to all or selected objects	Access to all: user can see the selected maps and branches. They have access to creating, editing and deleting them.
			Access to selected: user can see the selected maps and branches only. They cannot create new objects (or delete the existing ones). They can edit only those maps and branches they have access to. They cannot also create sub- branches in the branches managed by them.
	Access to users and groups	Access to all or selected objects	Access to all: user can see all users and groups and have access to creating, editing and deleting them.
			Access to selected: user can see the selected users and groups only. They cannot create new users and groups, or delete the existing ones. They can edit only those they have access to. They cannot also create sub-groups in the groups managed by them. They cannot change the users' (and groups') membership of groups

Module/fun ctionality	Right	Value	Description	
			other than those they have access to. They cannot delete or add any user (or group) to a group not managed by them.	
Network	Access to the management of the Network module functions	Yes/No	This right allows access to the Network module components via the nVision administration console. If user does not have access to the administration console, this setting is ineffective.	
Inventory	Access to the management of the Inventory module functions	Yes/No	This right allows access to the Inventory modu components via the nVision administration console. If user does not have access to the administration console, this setting is ineffective.	
			* Further options are only available when access to the module management is enabled.	
	Access to the management of settings in Agent profiles *	Yes/No	User can manage the Agent profiles and edit settings from the Inventory module in them.	
	Access to the file manager *	Yes/No	User can use the file manager function.	
			This setting is shared with the HelpDesk module (the function is available in both modules).	
	Access to the MSI package manager *	Yes/No	User can use the MSI package manager function.	
Users	Access to the management of the Users module functions	Yes/No	This right allows access to the Users module components via the nVision administration console and enables to grant the administrator rights in the SmartTime interface.	
			* Further options are only available when access to the module management is enabled.	

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Module/fun ctionality	Right	Value	Description
	Access to the management of settings in Agent profiles *	Yes/No	User can manage the Agent profiles and edit settings from the Users module in them.
	Access to the management of desktop preview settings *	Yes/No	User can manage the desktop preview settings for the users they have access to.
			This setting is shared with the HelpDesk module (the function is available in both modules).
	Access to the management of monitoring settings *	Yes/No	User can manage the monitoring settings for the users they have access to.
			This setting is shared with the SmartTime module (the function is available in both modules).
	Access to the management of blocking settings *	Yes/No	User can manage the blocking settings for the users they have access to.
DataGuard	Access to the management of the DataGuard module functions	Yes/No	This right allows access to the DataGuard module components via the nVision administration console (in Delphi). If user does not have access to the console, this setting is ineffective.
	Access to the management of settings in Agent profiles (yes/no)	Yes/No	User can manage the Agent profiles and edit settings from the DataGuard module in them.
HelpDesk	Access to the management of the HelpDesk module functions	Yes/No	This right allows access to the HelpDesk module components via the nVision administration console and enables to grant the administrator rights in the ticket system.
			* Further options are only available when access to the module management is enabled.

Module/fun ctionality	Right	Value	Description
	Access to the management of access settings *	Yes/No	User can manage the remote access settings for the users they have access to.
	Access to the management of desktop preview settings *	Yes/No	User can manage the desktop preview settings for the users they have access to.
			This setting is shared with the Users module (the function is available in both modules).
	Access to the file manager *	Yes/No	User can use the file manager function.
			This setting is shared with the Inventory module (the function is available in both modules).
	Access to remote management tools *	Yes/No	User can use the remote command execution, HelpDesk distribution task and process management functions.
	Level of rights in the ticket system	Administrat or	This right is available to users that have access to the management of the HelpDesk module functions.
			Users with the administrator role have access to technical settings of the HelpDesk.
		HelpDesk employee	Users with this role can perform operations related to ticket processing in the HelpDesk module. They can also plan their absences.
		User	User with the user role can only create new tickets and view those for which they are observers.
	Level of rights in the Chat system	Full access	User can log in to the chat and make full use of its features.

Module/fun ctionality	Right	Value	Description
		Access to technical support only	This right is only available if user has the "user" role in the ticket system. User can log in to the chat, but may use a limited number of its features. On the contact list, they can only see the users with the "administrator" or "HelpDesk employee" role in the HelpDesk, and can chat with them only. They can only be seen on the contact list by the users with the "administrator" or "HelpDesk
		No access	User cannot log in to the chat (when they try to log in, the message on lack of permissions is displayed). They cannot see the "Open chat" option in the Agent. A person with this right is also not shown on anybody's contact list and cannot be chatted with.
SmartTim e	Access to the management of the SmartTime module functions	Yes/No	This right allows access to the SmartTime module components via the nVision administration console and enables to grant the administrator rights in the web interface. * Further options are only available when access to the module management is enabled
	Access to the management of monitoring settings *	Yes/No	User can manage the monitoring settings for the users they have access to. This setting is shared with the Users module (the function is available in both modules).

Module/fun ctionality	Right	Value	Description
	Level of rights in the web interface *	Administrat or	This right is only available when someone has full access to the management of users and access to the management of the SmartTime module functions.
			A person with this role can manage all technical settings on side of the SmartTime. They can also see the activity data of all users.
		User	User has always access to their data.
			If they are set as group managers and have access to the group data enabled, they can manage the settings of their groups and see the activity data of their members.
			They can see the activity data of all their subordinates in the hierarchy.
		No access	User cannot log in to the SmartTime interface (when they try to log in, the message on lack of permissions is displayed).
			They cannot see SmartTime links in any other part of the program.
			They are still shown as users in SmartTime and their data can be viewed by their superiors and the administrator.
	Block access to data of any other users	Yes/No	This setting is only available if the user's level of rights in the SmartTime web interface is set as "user".
			This option blocks the activity visibility for any other users and overwrites any rights resulting from the groups and from the hierarchy.

6.5.3 Interrelated permissions

When assigning rights to users, some settings are interrelated with one another in various modules. Enabling or disabling such a setting in one module will result in switching it to the same position in the interrelated module. A change in setting that is interrelated with other module will display the relevant message:

N User: Mikuz					_ = ×
Account: MIKU@WIN10 R	ole: Administrator			Create announcement v	User logged on: n/a Status: Waiting for data
Image: Series of the series	SmartTime module management Access to settings Monitoring settings management Section in user settings User role	Users DataGuard HelpDeak	This feature has also been disc Direct reports Group reports and		Status: Waiting for data

The table below presents the settings interrelated with one another in various modules: These settings are described in detail in chapter <u>Available rights</u>.

Interrelated modules	Right
Inventory & HelpDesk	Access to file manager functions.
Users & HelpDesk	Management of remote access settings.
Users & SmartTime	Management of monitoring settings.
HelpDesk & Users	Management of desktop preview settings.

6.5.4 Assigning permissions to user

To manage rights of a specific user, you must log in to the built-in administrator account or to an account with the super administrator role.

A person with the super administrator role has always **unlimited access** to all functions of the program. Their access to modules, maps or users cannot be disabled selectively.

Note: The module access rights for the built-in Axence nVision Administrator account (i.e. the administrator whose account was created when you started nVision for the first time) cannot be changed.

Modification of user with "Administrator" role

To modify the rights, navigate to the User information screen, and then to the Permissions tab:

NV User: Mikuz					×
	Role: ADMINISTRATOR		Create announcement 🔻	User logged on: n/a Status: Waiting for data	
Image: General genera	ACCESS TO MODULES AND FEATURES Console	Users O DataGuard HelpDesk SmartTime Image: Comparison of the state of the st			
BLOCKADES SETTINGS BETTINGS BETTINGS	Access to devices Through maps and departments Access to users Through groups	 Full access Only selected maps and departments (24/24) Full access Only selected groups (76/76) 			

For users with the "administrator" role, it is possible to modify any rights described in chapter <u>Available</u> rights.

Modification of user with "User" role

To modify the rights, navigate to the **User information** screen, and then to the **Permissions** tab.

N User: Mikuz		_ ×
Account: MIH	@WIN10 Role: ADMINISTRATOR	Create announcement User logged on:
SENERAL	ACCESS TO MODULES AND FEATURES	
III ACTIVITY	Console Network Inventory Users DataGuard HelpDesk SmartTime	
SCREENSHOTS	Desktop Management Console	
🚴 ASSETS	Agent visibility Section in user settings	
SOFTWARE	Access to features	
EVENTS	Agent management menu ×	
U DATAGUARD	WebAccess console WWW access	
A BLOCKADES		
SETTINGS	Access to devices We full access Through maps and departments O Only selected maps and departments (24/24)	
2 PERMISSIONS	Access to users Through groups Only selected groups (76/76)	

For accounts with the "user" role, it is possible to modify the following rights:

nVision Administration Console

- Access to the WebAccess console: YES/NO
- Access to maps and branches (only available if access to the WebAccess console is enabled).

HelpDesk module

Level of rights in the HelpDesk ticket system:

- HelpDesk employee,
- user.

Access to Chat:

- full access,
- access to technical support only (only available if the person in the ticket system has the "user" role),
- no access.

SmartTime module

Level of rights in the web interface:

- user,
- no access.

Block access to data of any other users: YES/NO

All settings are described in chapter Available rights.

6.5.5 Default user permissions

It is possible to define the **default rights to be assigned to the newly created users and the users imported from Active Directory**. To do this, navigate to the **Users** tab, and then to the **Atlas information / Default rights** screen:

Axence nVision 11			
Monitoring properties: Atlas			
DATAGUARD BLOCKADES SETTINGS	DEFAULT PERMISSIO Permissions automatica Administrator role	NS Ily applied to all new users that are imported from Active Directory or created manually. Granted automatically for users that belong to the 'Domain Administrators' group Not granted automatically	
DEFAULT PERMISSIONS	SmartTime	 User Can access the user activity data of direct reports and users that belong to groups which this user manages. No access 	
	Chat	 Full access Technical support only No access 	
	Ticket system	O User	
	WebAccess console WWW access	No access	
			OK <u>C</u> ancel

6.5.6 Assigning permissions in bulk

To facilitate the configuration of rights for a significant number of users, you can use the option of assigning rights in bulk.

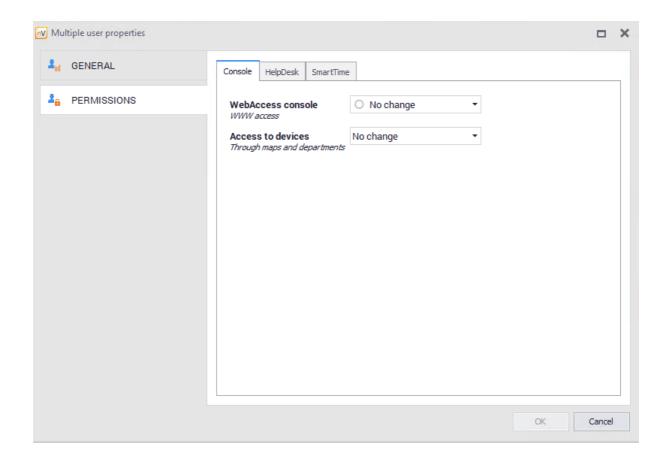
After you select a greater number of users by **right-clicking**, navigate to the **Properties** of selected accounts.

The **General** tab enables to define a superior for selected users, enable or disable them, and add selected persons to or delete from the group.

v Multiple user properties				
Lini GENERAL	BASIC INFORMATION			
Servissions		lo change No change		
	Add all users to the following gro	oups:		
			Add Rer	nove
			ОК Са	ancel

Note: Accounts imported from Active Directory do not allow the superior, group or account activity to be changed.

By using the **Permissions** tab, you can assign rights to selected parts of the program in bulk:



6.5.7 Migration of permissions from version 10

Below is described the way of migrating user rights for individual roles:

H Role "User" in nVision 10

User is always migrated with the following settings:

- Role: "user"
- nVision administration console
 - o Access to the WebAccess console: "no"
 - o Access to maps and branches: "no"

HelpDesk module

- Level of rights in the HelpDesk ticket system: "user",
- Level of rights in the Chat system: "full access",

SmartTime module

• Level of rights in the web interface: "user",

Block access to data of any other users: "no".

HelpDesk employee in nVision 10

HelpDesk employee is always migrated with the following settings:

• Role: "user".

nVision Administration Console

- · Access to the WebAccess console: "yes",
- Access to maps and branches: the same settings as in the WebAccess configuration window in nVision 10.

HelpDesk module

- Level of rights in the HelpDesk ticket system: "HelpDesk employee",
- Level of rights in the Chat system: "full access",

SmartTime module

• Level of rights in the web interface: "user",

Block access to data of any other users: "no".

H Role "Administrator" in nVision 10

If user had the "Management of administrator rights" option enabled, they are always migrated as "super administrator" with the chat option enabled regardless of any other settings.

Otherwise, user is migrated to the normal administrator role and their settings are migrated as follows:

nVision Administration Console

- o Access to the nVision desktop console: "yes",
- o Access to the management of Agent visibility settings:
 - The same value as the "Management of the user monitoring and blocking settings" right in nVision 10,
- o Access to the Agent menu:
 - The same value as the "Allow for access to the Agent menu" in nVision 10,
- o Access to the WebAccess console: "yes",
- o Access to maps and branches:
 - If user had prior access to all objects, then "full access" is assigned. Otherwise, they only retain the objects they had access to in nVision 10,

o Access to users and groups:

 If user had prior access to all objects, then "full access" is assigned. Otherwise, they only retain the objects they had access to in nVision 10,

Network

o Access to the management of the Network module functions:

The same value as the "Network" checkbox in the "Rights to the nVision modules" in version 10.

Inventory

o Access to the management of the Inventory module functions:

• The same value as the "Inventory" checkbox in the "Rights to the nVision modules" in version 10,

o Access to the management of settings in Agent profiles:

- If the "Inventory" checkbox in nVision 10 was set to "No", this right is always migrated as "No",
- Otherwise, this right has the same value as the "Management of Agent profiles" checkbox in nVision 10,

o Access to the file manager:

- If both the "Inventory" and the "HelpDesk" checkboxes in version 10 are set to "No", this right is always migrated as "No",
- Otherwise, the same value as the "Allow to use the file manager" checkbox in nVision 10.

o Access to the MSI package manager:

- If the "Inventory" checkbox in nVision 10 was set to "No", this right is always migrated as "No",
- Otherwise, this right has the same value as the "Allow to use the MSI package manager" checkbox in nVision 10.

Users

o Access to the management of the Users module functions:

• The same value as the "Users" checkbox in the "Rights to the nVision modules" in version 10,

o Access to the management of settings in Agent profiles:

- If the "Users" checkbox in nVision 10 was set to "No", this right is always migrated as "No",
- Otherwise, this right has the same value as the "Management of Agent profiles" checkbox in nVision 10,

o Access to the management of desktop preview settings:

 If both the "Users" and the "HelpDesk" checkboxes in version 10 are set to "No", this right is always migrated as "No",

- Otherwise, this right has the same value as the "Management of the user monitoring and blocking settings" checkbox in nVision 10,
- o Access to the management of monitoring settings,
- o Access to the management of blocking settings:
 - If the "Users" checkbox in nVision 10 was set to "No", both rights are always migrated as "No",
 - Otherwise, both rights have the same value as the "Management of the user monitoring and blocking settings" checkbox in nVision 10.

DataGuard

o Access to the management of the DataGuard module functions:

• The same value as the "DataGuard" checkbox in the "Rights to the nVision modules" in version 10,

o Access to the management of settings in Agent profiles:

- If the "DataGuard" checkbox in nVision 10 was set to "No", this right is always migrated as "No",
- Otherwise, this right has the same value as the "Management of Agent profiles" checkbox in nVision 10.

HelpDesk

o Access to the management of the HelpDesk module functions:

• The same value as the "HelpDesk" checkbox in the "Rights to the nVision modules" in version 10,

o Access to the management of remote access settings:

- If the "HelpDesk" checkbox in nVision 10 was set to "No", the rights are always migrated as "No",
- Otherwise, this right has the same value as the "Management of the user monitoring and blocking settings" checkbox in nVision 10,

o Access to the management of desktop preview settings:

- If both the "Users" and the "HelpDesk" checkboxes in version 10 are set to "No", this right is always migrated as "No",
- Otherwise, this right has the same value as the "Management of the user monitoring and blocking settings" checkbox in nVision 10,

o Access to the file manager:

- If both the "Inventory" and the "HelpDesk" checkboxes in version 10 are set to "No", this right is always migrated as "No",
- Otherwise, the same value as the "Allow to use the file manager" checkbox in nVision 10,

o Access to remote management tools:

- If the "HelpDesk" checkbox in nVision 10 was set to "No", the rights are always migrated as "No",
- Otherwise, this right has the same value as the "Allow to use the remote management tools" checkbox in nVision 10,

o Level of rights in the ticket system:

 If the "HelpDesk" checkbox in nVision 10 was set to "Yes", user is assigned the "administrator" role. Otherwise, they are assigned the "user" role.

o Level of rights in the Chat system: always "full access".

SmartTime

o Access to the management of the Business View module functions:

- If user had the "Users" checkbox in the "Rights to the nVision modules" in nVision 10 and access to all users and groups, they are assigned the right to manage the Business View module,
- In any other case, this setting is migrated as "No",

o Access to the management of monitoring settings:

- If user was assigned the right to manage the Business View module, this right has the same value as the "Management of the user monitoring and blocking settings" checkbox in nVision 10,
- Otherwise, this setting is migrated as "No",

o Level of rights in the web interface:

If user was assigned the right to manage the Business View module, they are assigned the "administrator" role. Otherwise, they are assigned the "user" role.

o Block access to data of any other users: always "No".

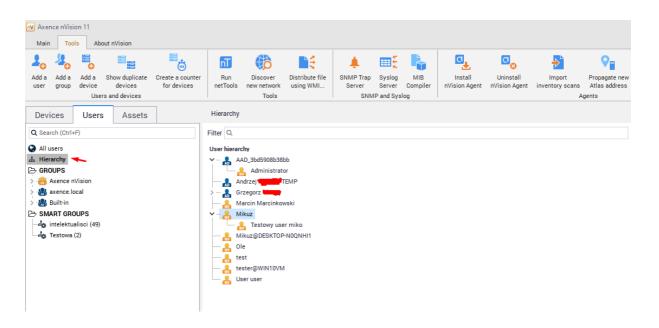
6.6 Hierarchy of users

The hierarchy of users was introduced in version 11 of nVision. It enables to determine the relationships among users.

Each user has the "superior" field, which may be left blank or contain exactly one user. The hierarchy of users is built only based on the relationships contained in this field. Any users that do not have a superior are located on the root level, but there is no relationship among them in the hierarchy.

This feature is closely related to the SmartTime module where a user that is higher in the hierarchy (superior) may have access to specific activities of a user that is lower in the hierarchy (subordinate). For more information about this relationship, refer to SmartTime chapter.

To view the hierarchy of users, click the Hierarchy button in the Main / Users tab:



Creating a hierarchy

The hierarchy of users can be created in two ways:

The first one is to **drag and drop users in the hierarchy view**. Please note that you cannot change the superiors/subordinates of the users downloaded from Active Directory.

The second way is to define the superior in the user information screen. To do this, navigate to this screen for the selected user and modify the "superior" field:

N Axence nVision 11			
Main Tools About nVision			
Generate MSI packages Print bar codes	Assets settings toy	Manage device permissions	Reports and alerts
Devices Users Asse	Hierarchy		
Q Search (Ctrl+F)	Filter Q		
All users Hierarchy Composition Axence nVision	User hierarchy - AAD_3bd590 - Admini - AD_3bd590 - AD_3bd590 - Admini - Admini - Admini - AD_3bd590 - AD_3bd590 - Admini - Admini - AD_3bd590 - AD_3bd590 - Admini -	strator ikuz Jestowy user miko	
> 🖓 axence.local > 🏰 Built-in E SMART GROUPS	Lini GENERAL	USER INFO AND STATUS	ROLE AND PERMISSIONS Change permissions
Testowa (2)	thi ACTIVITY	User name: Mikuz	Role: Administrator -
	SCREENSHOTS	Full name:	Job title:
		E-mail address: mikolaj.matuszny@axence.r	SmartTime: User
	💑 ASSETS	Account enabled:	Ticket system: HelpDesk Staff
	SOFTWARE	Password: Change	Chat: Full access
	EVENTS	Created: 02.07.2019 14:17:40	WebAccess: Yes
	U DATAGUARD	Last login: 23.03.2020 10:22:12 Phones:	
	A BLOCKADES		
	SETTINGS		
		Accounts and groups	
		Account type: nVision	Belongs to groups (4) Is manager of (0)
		Supervisor. Administrator	marketing Programmers
		Direct reports: 1 Show	
What's new?		Linked accounts:	
Devices: 238 (5 Ok, 2 Warning, 191 Down		Miku@DESKTOP-39LPD00	

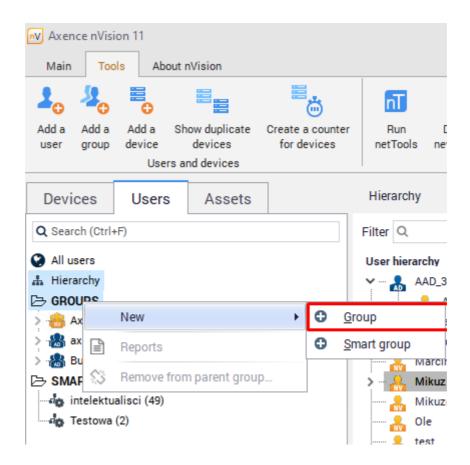
6.7 User groups

6.7.1 User groups

Groups allow to entering a greater number of users into a single organizational unit. This may prove useful when you want to assign access to a corporate pendrive or block access to web pages for greater group of users.

Adding a group

To add a group, right-click the Groups button, and then select New / Group from the context menu.



Adding users to a group

Users can be added to groups in the group property screen for the given group or directly in the user information screen for the selected user.

אַן Group: test					-		×
test Manager: No manager							
GENERAL	INFORMATION						
DATAGUARD	Name:	test	Manager.	No manager		•	
BLOCKADES		18.02.2020 15:01:16	Access to activity:	×			
SETTINGS	Type: Domain:	Axence nVision					
	Users and groups						
	Users in the group:		Belongs to groups	Subgroups			
	<no dat<="" td=""><td colspan="2"><no data="" display="" to=""></no></td><td>o data to display></td><td></td><td></td><td></td></no>	<no data="" display="" to=""></no>		o data to display>			
		Add Remove			Add R	emov	e

NV Use	r: Mikuz						×
		ole: ADMINISTRATOR				Create announcement	User logged on: n/a Status: Waiting for data
2 _{nd}	GENERAL	USER INFO AND STATU	5	ROLE AND PERMISSIO	INS Change permissions	ACTIVITY PREVIEW	
dd.	ACTIVITY	User name:	Mikuz	Role:	Administrator -	Application: -	
Ø	SCREENSHOTS	Full name:		Job title:			
å	ASSETS	E-mail address: Account enabled:	mikolaj.matuszny@axence.r	SmartTime: Ticket system:			
	SOFTWARE	Password:			Full access		
	EVENTS	Created:	02.07.2019 14:17:40	WebAccess:	Yes		
U	DATAGUARD	Last login: Phones:	23.03.2020 10:22:12				
A	BLOCKADES	Filones.					
ø	SETTINGS						
20	PERMISSIONS	Accounts and groups					
		Account type:			3) Is manager of (0)		
		Supervisor.		📩 testowa podgrup	a nv		
		Direct reports:	1 Show				
		Linked accounts: Miku@DESKTOP-39LPDO					
		Miku@WIN10	0				
							Add Remove

Subgroups

Subgroups are lower in the hierarchy than the selected group. They allow inheriting settings from the parent group and modifying selected settings. A subgroup can be defined in the group property screen.

₩ Group: test					_		×
Kest Manager: No manager							
GENERAL	INFORMATION						
DATAGUARD	Name:	test	Manager.	No manager		•	
BLOCKADES		18.02.2020 15:01:16	Access to activity:	×			
SETTINGS	Type: Axence nVision Domain: -						
	Users and groups						
	Users in the group:		Belongs to groups	Subgroups			
	<no data="" display="" to=""></no>		<n1< td=""><td>o data to display></td><td></td><td></td><td></td></n1<>	o data to display>			
		Add Remove		4	dd R	emov	e

Group settings

When in the group property screen, you can modify the following attributes:

- Group name,
- Group manager this feature is connected with the SmartTime module. Group manager has access to
 their own data as well as data of the entire group and individual members. This user can also edit the
 group productivity exceptions. If they edit productivity exceptions for such a group, they can see the
 global list of applications, their productivities and categories, however they cannot edit these items.
 For more information, refer to this <u>chapter</u>,
- Group members,
- Subgroups,
- DataGuard module settings,
- Filtering websites, blocking applications and downloaded files,
- Monitoring, remote desktop and Agent visibility settings.

6.7.2 Smart groups

Smart groups differ from normal groups of users in that they are created dynamically. To create a smart group requires the definition of certain conditions to be met by users to be added to this group.

Creating a smart group

To add a smart group, right-click the **Groups** button, and then select **New / Smart group** from the context menu.

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Main	То	ols Ab	out r	Vision					
10	20	•				ö		nT	
Add a user	Add a group	Add a device		ow duplicate devices		Create a counter for devices			[Is ne
		Use	rs a	nd devices					
Devi	ces	Users	6	Assets				Hierarc	hy
Q Sear	ch (Ctrl·	+F)						Filter Q	
😧 All us	sers							User hie	rarchy
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> 8 A		New			•	0	<u>G</u> ro	up	
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> 🚷 B	AU	Remove	fron	n parent grou	n			, M	Marcin
🗁 SMA			IIOI	in parent grou	J			2	Mikuz
		alisci (49)							Mikuz
T Que	estowa	(2)							Ole
l .								<u>.</u>	test

Creating a smart group filter

The next step is to create a filter. To do this, select **Filters for smart groups** on **Tools** tab or click **Add** near filter field while creating Smart Group

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	O Add user 🔟 User info 🖞 Bend							
All users								
	* Name Full na	ime 🔺 E-mail						
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do intelektualisci (49) do Testowa (2)	Users	hej2			25.07.2019 10			
ag lestowa (2)	Superadministratorzy				4			
				Close				

With the above filter in place, users with the "super administrator" role whose names begin with "A" will be added to the smart group.

Refresh time

The last step is to define the interval for checking the conditions defined in filters. The default setting is 5 minutes.

Part VIII

7 Users module

7.1 Introduction

Axence nVision® is equipped with an Agent designed to monitor user activity on Windows workstations. It collects the following information:

- Activity/inactivity time. Inactivity (break) is the time, when the user does not press any keys and does not move the mouse.
- Application usage time. This is grouped for easier analysis of the user activity.
- Visited web pages. The Agent analyzes low level network information to get this list.
- Hardware and software inventory (see the 'Hardware and software inventory' chapter).
- Data on sent e-mail messages.
- Printing information.

The Agent automatically sends the information about user activity every 1 hour. The hardware inventory is scanned every 24 hours.

User activity monitoring requirements

In order to collect user activity information, you have to install the nVision Agent on the remote host (which will also enable nVision to collect the inventory). You also have to open TCP port 4434 on the computer running nVision. Please refer to <u>Requirements and configuration</u> [28] topic for more information.

Please note, that all the communication between Agents and nVision requires authorization and no data may be communicated if the Agents and nVision are properly configured.

User activity information

- 1. Open the **User info** window.
- 2. Go to the User activity tab.
- 3. Select the page you would like to see:
 - Summary,
 - Work time,
 - Applications,
 - · Websites,
 - Printouts,
 - E-mails,
 - Bandwidth usage.
- 4. Select the time period of the presented data.

It is possible to view data concerning all users who were using this computer by expanding the **Users** menu in the upper part of the window.

Computers with DHCP assigned address

When a computer has a new IP address assigned by DHCP, then it will be updated in the nVision database upon a connection between the Agent and nVision. Therefore, you do not have to do that manually.

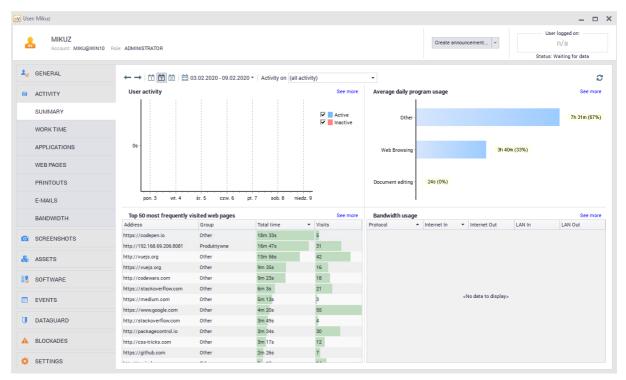
7.2 Overview

To view general information about user activity, go to the **User info** window, **User activity / Summary** tab.

Also, find out about the <u>monitoring settings</u> 32 model.

This tab shows information about:

- user activity (active/inactive time),
- average daily program usage by groups configured in <u>nVision options</u> [43],
- top 50 most frequently visited web pages,
- bandwidth usage in the local network and the Web, with a division into inbound and outbound traffic.



More details about network traffic can be found in the Bandwidth usage tab.

7.3 Blocking access to selected applications

Applications can be blocked for a workstation with an installed nVision Agent by the proper configuration of the Agent. By default, all applications can be executed.

The model blocking settings are presented in the <u>Blocking settings</u> ³⁵ chapter.

Blocking applications

To block an application:

- 1. Navigate to the Atlas information, Group information or User information window. Switch to the Blockades tab.
- 2. Open the Blocking applications page.
- 3. Click the ^C Add rule button.
- 4. Enter the rule name, executable file name and effective time. Click OK.

N Axence nVision 11												
Main Tools About nVision												
10 20 50 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5												2
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	test Users (3										SmartTime	
Q Search (Ctrl+F)	 Add user <u>Z</u>Use 	Monitoring p	operties: Atlas									
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> 🔐 axence.local	Administrator				es for blocking a							1
SMART GROUPS	Mikuz				: The "allow" action	can not be defin	ned for the applicat					
do Testowa (2)												
					name					ffective time		
					Add rule				×			
					Properties Rule nam	e: cscript						
					Executable nam							
	1						wildcard character ames, for example					
					Effective tim		*					
						✓ Monday ✓ Tuesday						
						✓ Wednesd	ay					
						✓ Thursday ✓ Friday						
						Saturday						
						🗹 Sunday						
								<u>Q</u> K <u>C</u> a	ncel			

In the <u>nVision options</u> 43, you can configure the text of the notification to be shown to users when they make an attempt to start a blocked application.

Excluding processes from blocking rules in the Agent profile

To exclude processes for all the devices used, you must properly configure the Agent profile.

- 1. Navigate to the **Tools and options** tab, and then to the **Manage Agent profiles** menu.
- 2. Select the Agent profile to be edited \checkmark or create a new one \bullet that will suit your needs.
- 3. In the Edit window, navigate to the Compatibility tab, and then to the Excluded processes tab.
- 4. Add the processes to be blocked and confirm with OK.

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General	Compatibility					
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7.4 Blocking access to selected websites

Websites can be blocked for a workstation with an installed nVision Agent by means of Agent profiles. By default, all websites can be accessed. To enable blocking, toggle on the integration with TCP/IP stack in the **Compatibility and performance** tab. To learn how to do this, see the chapter <u>l cannot</u> block websites <u>ls2</u>.

The following protocols are supported at the moment: HTTP, HTTPS, SMTP:25, SMTP:587, SMTP via SSL, POP3 via SSL and POP3:110. The following protocols are not supported at the moment: IMAP, MAPI.

Blocking access to websites

The model blocking settings are presented in the <u>Blocking settings</u> that chapter.

To block access to a website:

- 1. Navigate to the Atlas information, Group information or User information window. Switch to the Blockades tab.
- 2. Select the Web filtering page.
- 3. Click the Add rule button.

4. Enter the rule name, select the **Block** action and enter an IP address or domain to be blocked. An example of the rule is shown on the image below.

In the <u>nVision options</u> 43, you can configure the text of the notification to be shown to users when they visit a blocked website.

N Axence nVision 11										
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Excluding domains from blocking rules in the Agent profile

To exclude domains for all the devices used, you must properly configure the Agent profile.

- 1. Navigate to the **Tools and options** tab, and then to the **Manage Agent profiles** menu.
- **2.** Select the Agent profile to be edited \square or create a new one \square that will suit your needs.
- 3. In the Edit window, navigate to the Compatibility tab, and then to the Excluded domains tab.
- 4. Add a domain to be blocked and confirm with OK.

Agent configuration Profile name: Default profile General Compatibility DataGuard Image: Compatibility Image: Compatibility DataGuard	N Axence	nVision 11					×
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	.w	/p.					
OK Cancel						<u>о</u> к	<u>C</u> ancel

Time window

It is possible to set the time window (hours and days) when the given website will be blocked. For example, you can block access on business days during working hours. Thus, outside of the time window devoted to work, the user will be able to access the blocked website.

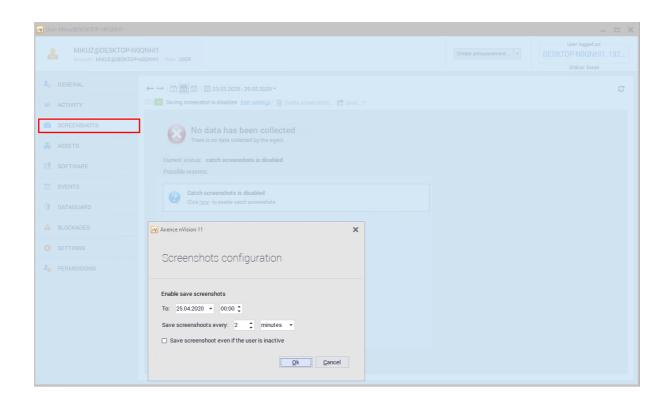
Problems

If any problems with blocking websites occur, see the chapter <u>l cannot block websites</u> to find a solution.

7.5 Screenshots

Saving screenshots is disabled by default. If you want to save screenshots cyclically:

- 1. Go to the **Screenshots** tab in the **User info** window.
- 2. If there is no data collected and the Agent is installed, **Enable screenshots saving**.



- 3. Set how often and until when you want the screenshots to be taken.
- 4. Wait for Agent to send data or refresh \mathcal{C} .
- 5. You can view screenshots and save them as *.jpeg files.

7.6 E-mails

If you want to monitor e-mails, enable this option in Agent settings (see Agent settings [127]).

If you encounter any problems with monitoring e-mails, refer to <u>I cannot block websites and monitor e-</u> mails 132 topic.

Monitoring e-mails is only possible for machines with the installed Agent and enabled integration with the TCP/IP stack.

The following protocols are supported at the moment:

- SMTP:25,
- SMTP:587,
- SMTP via SSL,
- POP3 via SSL,
- POP3:110.

The following protocols are not supported at the moment: IMAP, MAPI.

Important: Monitoring covers inbound and outbound mail. Sender, recipient, subject and size are recorded. Mail content is not monitored.

7.7 Printouts

7.7.1 Printout monitoring

It is possible to monitor printing on machines with installed Agents (if the appropriate option in the <u>monitoring settings</u> 32) is marked).

To enable printout monitoring:

- 1. Navigate to the Settings window for the Atlas or group or to the User info window.
- 2. Go to the **Settings** tab.
- 3. In the **Printouts** option, select **Monitor**.

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		Desktop preview and remote access			

If the mail server uses SSL/TLS encryption, you need to select the relevant option in the Agent profile to monitor correspondence:

Agent configuration Profile name: Default profile General Compatibility DataGuard Image: Compatibility Image: Compatibility Compatibility I	Axence nVision 11						
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 ✓ Application blocking integration enabled ✓ Monitoring of bandwidth usage enabled ✓ TCP/IP stack integration enabled TCP/IP stack integration is required for web filtering and e-mail monitoring. In the case of conflicts with third-party software, it may be necessary to restart the computer with the Agent after changing the options in this section. TDI driver only ✓ Monitor SSL/TLS traffic Excluded processes Excluded domains Process name cscript.exe *.bat 	llaara						
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✓ TCP/IP stack integration enabled TCP/IP stack integration is required for web filtering and e-mail monitoring. In the case of conflicts with third-party software, it may be necessary to restart the computer with the Agent after changing the options in this section. TDI driver only ✓ Monitor SSL/TLS traffic Excluded processes Excluded domains Process name cmd.exe script.exe *.bat	Application blockin	g integration enabled					
TCP/IP stack integration is required for web filtering and e-mail monitoring. In the case of conflicts with third-party software, it may be necessary to restart the computer with the Agent after changing the options in this section. □ TDI driver only ✓ Monitor SSL/TLS traffic Excluded processes Excluded domains Process name cmd.exe escript.exe	Monitoring of band	vidth usage enabled					
In the case of conflicts with third-party software, it may be necessary to restart the computer with the Agent after changing the options in this section. TDI driver only Monitor SSL/TLS traffic Excluded processes Excluded domains Process name cmd.exe cscript.exe *.bat	TCP/IP stack integ	ation enabled					
Monitor SSL/TLS traffic Excluded processes Excluded domains Process name cmd.exe cscript.exe *.bat	In the case of confli			rt the computer	with the Agent afte	er changing the opt	ions in
Excluded processes Excluded domains Process name	TDI driver only						
Process name cmd.exe cscript.exe *.bat	Monitor SSL/TLS	traffic					
cmd.exe cscript.exe *.bat	Excluded processe	s Excluded domains					
cscript.exe *.bat	Process name						
*.bat	cmd.exe						
	cscript.exe						
	*.bat						
						ОК	Cance

7.7.2 Printout audit

The printout audit window allows the printing history in selected periods to be viewed (day, week, month or year). Data are sorted in chronological order. To facilitate searching for necessary information, grouping options are available – by users, devices and printers.

To perform a printout audit, click **Printout audit** on the ribbon (in the **Main** page). The **Printout audit** window will open.

Audit your printers his				7									_
Filter Q	Group: Don't	group	• 🗂 🗂 🗂 🚟	1.01.2020	- 31.12.2020 -					Filter	Q		
Department	User	Device	Document	Printer	Pages			Paper				rintout statu	
II departments	Miku@WIN10	WIN10, 192.168.69.206	Raport	Microsoft Print	-		30.12.1899 09:31:30		600 DPI (Y Resolution: 600			Succes	
colatka	Miku@WIN10	WIN10, 192.168.69.206	Plik PDF	BackOffice OKI			30.12.1899 14:34:40					Succes	
colatka	Miku@WIN10	WIN10, 192.168.69.206	Plik PDF	BackOffice OKI	? (7 pg / 1 copies)	10.01.2020	30.12.1899 14:34:40	A4 sheet, 210- by	Low	Color	Vertica	👂 Unknow	n
zpital ala operacyjna zpital													

If the printout data are not collected, even though the computers with Agents have the printout monitoring options checked, see the section <u>Users' printouts are not monitored</u>.

7.7.3 Printing costs

Printout monitoring allows the costs borne in relation to document printing to be discovered. To ensure the proper cost assessment, configure the expenses, including the costs of paper and printing on specific printers.

Configuration

To configure the printing costs:

- 1. Select **Configure printing costs** in the menu bar (in the **Main** page). You can also do this from the level of the **Printout audit** window by means of the appropriate button. In both cases the **Configure print cost** window will open.
- 2. In the **Paper cost** tab specify the costs for paper formats (A3, A4, A5, envelope). The cost specified in the **Default** cell will be used for all formats for which the specific cost is not determined.

nV Configure print cost			×
Print cost Use this window to configure your p	print cost.		
Paper cost Printing cost Printers groups			
Provide paper cost:			
Paper format	 Cost per page 		
Default	0,100 zł		
A4 sheet, 210- by 297-millimeters	0,018 zł		
		Olare	
		<u>C</u> lose	

3. In the **Printing cost** tab specify the printing costs for specific printers. You can also specify different costs for black and white and color printouts or use default values. If the printer does not have a color mode, right-click to mark the appropriate option.

Configure print cost				3
Print cost Use this window to configure your pri	nt cost.			
Paper cost Printing cost Printers groups				
Provide print cost of a single page per printer	toner/ink:			
Paper format	Cost of 1 page (b/w)	Cost of 1 page (color)		
Default				
A4 sheet, 210- by 297-millimeters	Default	123,000 zł		
BackOffice OKI MC352 (przekierowana sesja: 2)				
A4 sheet, 210- by 297-millimeters	Default	23,000 zł		
Microsoft Print to PDF				
A4 sheet, 210- by 297-millimeters	Default	Default		
			Close	

4. To retrieve the default value of a field in both tabs, right click the field and select the option **Set cell** value as default.

Printing cost audit

Printing costs are displayed in the last column of the **Printout audit** window. At the bottom, the total printing cost for the given period is also specified.

7.7.4 Printer grouping

To reduce the number of entries and to avoid reporting printing costs for repeating devices, it is possible to group printers. The function is available in the **Printers groups** tab (the **Configure printing costs** window).

N Configure print cost				×
Print cost Use this window to configure you	r print cost.			
Paper cost Printing cost Printers groups				
Use the grid below to group printers:				
Printer name	Devices using this printer	Identify as		
Microsoft Print to PDF	"WIN10, 192.168.69.206, ASD 123"			
BackOffice OKI MC352 (przekierowana sesja: 2)	"WIN10, 192.168.69.206, ASD 123"			
			<u>C</u> lose	

The printer grouping tab contains a list of printers with information about the machines which were performing printing on these devices. Printouts identified as other assume their printing costs, but in all other presentations (printout audit, reports) are still considered as independent printers.

Practical information

While grouping printers, note the entries referring to the same device which has different names on a given machine, as well as devices used by multiple users. Also select one entry which will be used as the basis for the creation of the given printer group, because nVision blocks the ability to create cyclical associations.

To remove the association for a given printer, right click to expand the menu for the given entry and select the option **Clear 'identify as'**.

Part VIII

8 Inventory module

8.1 Introduction

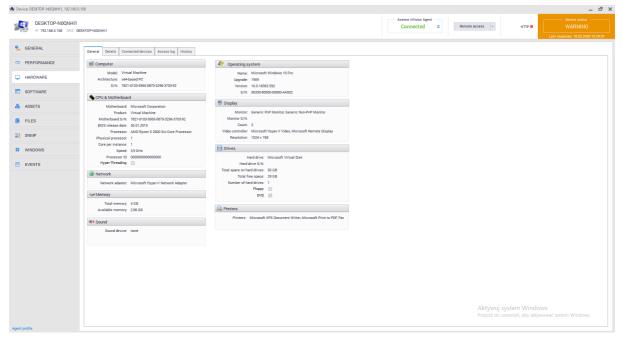
8.1.1 General information

The **Inventory** module automatically collects information about the hardware configuration of each computer and the software installed on it. 'Collect' task is performed by the nVision Agent once a day for each computer. Automatic download of hardware configuration and installed software data requires installation of the nVision Agent on selected hosts.

To enhance data synchronization for a selected device, select **Agent / Collect inventory** from the context menu of the selected device. You can also perform an inventory for the entire map (all computers) by selecting **Inventory** option from the context menu in the map tree. Please note that synchronization time for map data depends on the number of devices.

Device Information

Information about resources, software and hardware can be found in tabs located in **Device Information** window. Please note, this data may not be available immediately after scanning the network. They will appear automatically as soon as the Agents finish scanning the computers and send the data:



Assets

Starting from nVision 11.5, the phrase of a 'fixed asset' has been replaced by the phrase of a 'asset'.

Assets can be assigned to departments or users. Assets assigned to users are described in the <u>user</u> <u>assets</u> assets chapter. The list of all assets will be displayed after clicking the **Assets** tab in the main console window:

Axence nVision 11											- 8
Main Tools About nVision		_									
enerate MSI packages Print bar Assets rotocol manager codes settings	Configure license type Konage trustee permissions audit	Configure Reports View gvent	s tasks	icements <u>Q</u> Hel	pen	Open Options martTime					
Inventory		intouts Reports and	alerts Help	Desk							
Devices Users Assets	All assets Department: Any or none Assets History Add Delete Properties Group by (None)	Audit Events								Fit	ter Q.
	A Name	Asset type	Belongs to	CustomGlobal	0	Inventory number	1	D	ele Serial number		Value Warranty
All assets					Czas		Location	Person responsit	ile Serial number		
GENERAL	ZELMER	Karta	(Unassigned)			AGH002				W użyciu	150,00 zł
💑 Computer 💑 Display	PHILIPS	Karta	(Unassigned)			AGH001				W użyciu	120,00 zł 04.01.202
seyboard	Remote Desktop Mouse Device	Pointing device	WIN10, 192.168.69.206							W użyciu	0,00 zł
Se Pointing device	UPS APC 1000	Keyboard	(Unassigned)			SP/ST-1070	WOM Sala A			W użyciu	0,00 zł
COMPONENTS	Microsoft Remote Display Adapter	Video adapter	WIN10, 192.168.69.205								0,00 zł
🇞 Audio card	UPS APC 1000	Keyboard	(Unassigned)			SP/ST-1072	WOM Sala A			W użyciu	0,00 zł
💫 Floppy disk drive	Rozszerzona (101 klawiszy lub 102 klawisze)	Keyboard	WIN10, 192, 168, 69, 206							E	0.00 zł
🎭 Hard drive	Microsoft Virtual Disk	Hard drive	WIN10.192.168.69.206	0						W użyciu	0.00 zł
Section Memory	Microsoft Hyper-V Network Adapter		WIN10, 192, 168, 69, 206	0		NET4207107902				W użyciu	0.00 zł
Motherboard			WIN10, 192, 168, 69, 206			14201107502				-	
Network adapter	Rozszerzona (101 klawiszy lub 102 klawisze)	Keyboard								W użyciu	0,00 zł
head of the second seco	Microsoft Virtual DVD-RDM	Optical drive	WIN10, 192.168.69.206							W użyciu	0,00 zł
Notessor Video adapter	HID-compliant mouse	Pointing device	WIN10, 192.168.69.206							W użyciu	0,00 zł
INFRASTRUCTURE	UPS APC 1000	Keyboard	(Unassigned)			SP/ST1071	WOM Sala A			W użyciu	0,00 zł
& Camera	AMD A10-7890K Radeon R7, 12 Compute Cores 4C+8G	Processor	WIN10, 192.168.69.206							W użyciu	0,00 zł
Se Desk phone	Microsoft Corporation Virtual Machine	Motherboard	WIN10, 192.168.69.206						4783-1719-9041-9283-6900-3387-88	W użyciu	0,00 zł
Se Network device	Generic Non-PnP Monitor	Display	WIN10, 192, 168, 69, 205			6774329					0.00 zł
🔒 Printer	macierz1	NAS	(Unassigned)	0			Kraków			W użyciu	0,00 zł
here and the second sec	Microsoft Hyper-V Video	Video adapter	WIN10, 192, 168, 69, 206							W użyciu	0.00 zł
🔒 ups	DESKTOP-NOONHI1		DESKTOP-N0QNHI1, 192, 168.0, 108			6740502			7821-0103-5955-0870-3296-3703-92		
KRYTYCZNE		Computer							/821-0103-5955-0870-3296-3703-92		0,00 zł
NOWE	Generic PnP Monitor	Display	WIN10, 192.168.69.206			9146256				W użyciu	0,00 zł
OTHER	2 GB (Unknown)	Memory	WIN10, 192.168.69.206							W użyciu	0,00 zł
🐣 Karta	Kość 1	Memory	WIN10, 192.168.69.206		03:23:23	3522963			21esczxc	Nowy	0,00 zł
http://www.com/com/com/com/com/com/com/com/com/com/	Axence nVision Agent	Software (obsolete)	WIN10, 192.168.69.205							W użyciu	0,00 zł 18.02.202
Se Modem	123test	Testowy	Szpital			OFFLINE2861305	wwa			W użyciu	222,00 zł
As NAS	2134	Testowy	(Unassigned)			OFFLINE1124942525	Kraków			W użyciu	21 333,00 zł
Pendrive	Komputer admin	Network adapter	(Unassigned)	0		NET4202000564		Administrator		W użyciu	0.00 zł
SIM card	gwe	Testowy	(Unassigned)	0		OFFLINE1128006824	Kraków			W użyciu	6 666.00 zł
😓 Software (obsolete)	PANASONIC	Karta	(Unassigned)	0		AGH003				W użyciu	250.00 zł
😓 Tablet		Printer				6539449				_	0.00 zł
🎭 Testowy	drukarika1		(Unassigned)							W użyciu	
SOFTWARE	123	Computer	(Unassigned)			8423387				W użyciu	0,00 zł
Software audit	- test1	Testowy	192.168.69.1			OFFLINE1454424	Kraków			WOW W usyciu	m Win 500.zk
What's new?	â			Eve	ent Log						

See <u>"Assets"</u> [184] chapter to view new features.

Software

The software section can be accessed by clicking **Asset** tab in the main window pane and consists of three sections:

- Software audit displays list of detected applications, enables audit snapshot,
- Applications displays list of applications which installations can **be detected by the Agent.** Application installations can be assigned to users,
- Licenses allows to view, modify and add licenses. license can be bound with multiple applications and users.

History

Axence nVision stores the history of all assets statuses and actions performed on the asset. This information is presented in a list, including date, time and information about the user who performed the action. More information is described in the * hyperlink * chapter.

nVision agent inventory process

Automatic hardware and software inventory process requires installed nVision Agent on given computer. The administrator can specify which information is to be read by the Agent. The configuration window has been described <u>here</u> 2001.

More information about nVision Agent installation is described in the <u>Installing and Uninstalling</u> <u>Agents</u> [117] chapter.

Manual inventory process

Hardware and software inventory process can also be performed agent-less.

8.1.2 First steps

When starting work with the Inventory module, the Administrator should perform a few basic steps that will allow to customize the module. These steps may include the following:

1. Specification of resources, which must be automatically detected on computers with Agent installed, described in the <u>Asset autodetection</u> chapter.

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- 2. Add resource and folders types that will group these types. The activities are described in the <u>Asset</u> types 200² and <u>Asset types folders</u> 200⁶ chapters.
- 3. Adding additional fields, statuses and activity templates available from the <u>Asset settings</u> window.
- 4. Adding documents 1881 and associating them with resources or licenses 2841.
- 5. Adding licenses for the audited applications and determining the associated applications 2001.
- 6. Modifying the method of assigning licenses and change of related settings (assigning users to the application, changing the assigned serial numbers). To know how to assign a license, read the licensing methods [292] chapter.

8.1.3 Migration from previous versions

Assets Types

All types of assets (formerly: types of fixed assets) that were created by the user in the previous version of the module will be moved to the built-in folder "Other" types after migration.

The "Software" type will receive "(obsolete)" and will be placed in the "Other" folder:

Axence nVision 11				– 🗗 ×
Main Tools About nVision				
Generate MSI narkanes Print har Assets	cation categories per semplates per semplates pe			^
Devices Users Assets	Software (obsolete) Department: Any or none • Assets History Events			
Q Search (Ctrl+F)	O ≜dd 📋 Delete ∠ Properties Group by (None) ・		Filter Q	
All assets	Name	Belongs to	Status	Warranty to
GENERAL GENERAL	Axence nVision Agent	WIN10, 192.168.69.206	W użyciu	18.02.2020
COMPONENTS INFPASTNCTURE INFPASTNCTURE NOVE SNOVE SNOVE Grave Antiperson Ant				

Additional fields

The value of the "old" **Responsible person** field will be moved as a global field called **Responsible person** (obsolete).

Statuses

If the field "in service" was checked (regardless of the value of the field "in warehouse") the asset will receive the status "In repair".

If the "in warehouse" field was checked without "in service" marked field, the asset will receive the status "In working condition".

Other assets will receive "In Use" status.

Documents

All current attachments are converted during migration into documents of the "Other" type. Document name will be amended with file name.

8.2 Assets

8.2.1 Assets tab

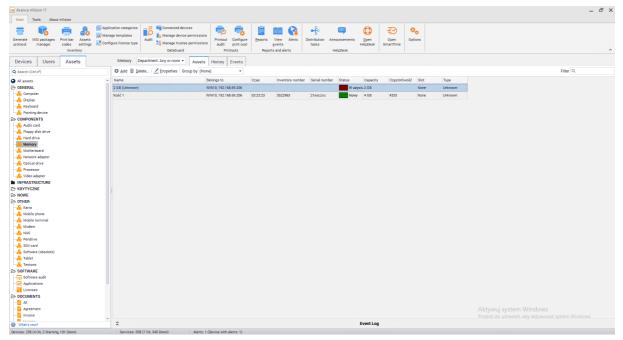
In nVision 11.5 a "assets" tab has been added that allows displaying assets saved in the database. To access it, go to the Main tab and then select Assets:

Axence nVision 11 Main Tools About nVision											- 8
anarata MSI narkanas Drint har Assats	Configure license type 76 Manage trustee permissions audit	t Configure print cost initouts Reports View gvent Reports and	ts tasks	ncements <u>0</u>	ipen	Open imartTime					
Devices Users Assets	All assets Department: Any or none - Assets History	Audit Events									
Search (Ctrl+F)	O Add	-								Filt	ter Q.
All assets	A Name	Asset type	Belongs to	CustomGlobal	Czas	Inventory number	Location	Person responsib	le Serial number	Status	Value Warrant
GENERAL	ZELMER	Karta	(Unassigned)			AGH002				W użyciu	150,00 zł
🎭 Computer	PHILIPS	Karta	(Unassigned)			AGH001				W użyciu	120,00 zł 04.01.20
💑 Display	Remote Desktop Mouse Device	Pointing device	WIN10.192.168.69.206							W użyciu	0.00 zł
& Keyboard	UPS APC 1000	Keyboard	(Unassigned)			SP/ST-1070	WOM Sala A			W użyciu	0,00 zł
A Pointing device	Microsoft Remote Display Adapter	Video adapter	WIN10, 192.168.69.206	0							0,00 zł
& Audio card	UPS APC 1000	Keyboard	(Unassigned)			SP/ST-1072	WOM Sala A			W użyciu	0.00 zł
Floppy disk drive	Rozszerzona (101 klawiszy lub 102 klawisze)	Keyboard	WIN10, 192, 168, 69, 205	0		0.701.1012					0.00 zł
🔒 Hard drive	Microsoft Virtual Disk	Hard drive	WIN10, 192, 168, 69, 205	0						W użyciu	0.00 zł
le Memory	Microsoft Hyper-V Network Adapter	Network adapter	WIN10, 192, 168, 69, 206	0		NET4207107902				_	0.00 zł
hotherboard						NE1420/10/902				W użyciu	
Network adapter	Rozszerzona (101 klawiszy lub 102 klawisze)	Keyboard	WIN10, 192.168.69.206							W użyciu	0,00 zł
& Optical drive 🐥 Processor	Microsoft Virtual DVD-RDM	Optical drive	WIN10, 192.168.69.206							W użyciu	0,00 zł
Nideo adapter	HID-compliant mouse	Pointing device	WIN10, 192.168.69.205							W użyciu	0,00 zł
NFRASTRUCTURE	UPS APC 1000	Keyboard	(Unassigned)			SP/ST1071	WOM Sala A			W užyciu	0,00 zł
🔓 Camera	AMD A10-7890K Radeon R7, 12 Compute Cores 4C+8G	Processor	WIN10, 192.168.69.206							W użyciu	0,00 zł
😓 Desk phone	* Microsoft Corporation Virtual Machine	Motherboard	WIN10, 192.168.69.206						4783-1719-9041-9283-6900-3387-88	W użyciu	0,00 zł
😓 Network device	Generic Non-PnP Monitor	Display	WIN10, 192.168.69.206			6774329					0,00 zł
Printer	macierz1	NAS	(Unassigned)				Kraków			W użyciu	0,00 zł
& Projector	Microsoft Hyper-V Video	Video adapter	WIN10, 192.168.69.205							W użyciu	0,00 zł
	DESKTOP-N0QNHI1	Computer	DESKTOP-N0QNHI1, 192.168.0.108			6740502			7821-0103-5955-0870-3296-3703-92	Ē	0,00 zł
KRYTYCZNE NOWE	Generic PnP Monitor	Display	WIN10.192.168.69.205	0		9146256				W użyciu	0.00 zł
OTHER	2 GB (Unknown)	Memory	WIN10.192.168.69.205	0						W użyciu	0.00 zł
🗞 Karta	Kość 1	Memory	WIN10. 192.168.69.205		03:23:23	3522963			21esozxo	Nowy	0.00 zł
hobile phone	Axence nVision Agent		WIN10, 192.168.69.206	0	00.20.20	0011000			LIGGERG	W użyciu	0,00 zł 18.02.2
🌜 Mobile terminal	123test	Testowy	Szpital			OFFLINE2861305	wwa			W użyciu	222.00 zł
& Modem	2134	Testowy	(Unassigned)	0		OFFLINE2001305				W użyciu W użyciu	
NAS							5 Nrakow			_	
Pendrive SIM card	Komputer admin	Network adapter	(Unassigned)			NET4202000564		Administrator		W użyciu	0,00 zł
Software (obsolete)	qwe	Testowy	(Unassigned)			OFFLINE112800682	4 Krakow			W użyciu	
Tablet	PANASONIC	Karta	(Unassigned)			AGH003				W użyciu	250,00 zł
Sectory Testowy	drukarka1	Printer	(Unassigned)			6539449				W użyciu	0,00 zł
SOFTWARE	123	Computer	(Unassigned)			8423387			Aktywuj system Winde	W użyciu	0,00 zł
Software audit	test1	Testowy	192.168.69.1			OFFLINE1454424	Kraków			NOW Wużyciu	m Win500.zk
What's new?	A			E.	ent Log						

The list of folders with their assigned types, list of applications and licenses as well as the document section divided into categories will be displayed on the left side of the screen The administrator can create their own folders and categories of documents. These settings are described in the chapters resource type folders and document types 212.

Assets

There are several ways to present resource data. Click on all assets to display a list of all collected assets. By selecting an asset type from the list, a list of all assets of this type of asset will be displayed. The table presenting data on a given type of resource will also contain data from additional and global fields, but only if a value has been entered. The following screenshot presents the table for the "Memory" type with the "Frequency" as additional field and the "Time" as global field:



You can filter the list, edit the asset, delete it or add a new asset by using the buttons at the top of the window. The process of adding a new resource is described in a separate chapter 220.

A few additional tabs are visible above the asset table. They include:

• History

Shows the history of operations performed on the selected asset type. See <u>history</u> the history for more information about data stored in History.

Axence nVision 11					- 6
Main Tools About nVision					
MSI packages manager Print bar Assets codes setting Inventory			Connected devices Manage device permissions Manage trustee permissions DataGuard	TIE Ver Alers gents dates HelpDesk Smartline Options	
evices Users Assets	Memory	Department:	Any or none - Assets History Events		
Search (Ctrl+F)	← → 🗂		m 01.03.2020 - 31.03.2020 ·		Filter Q
All assets	A Date *	Time	 Action 	Details	Belongs to
ENERAL	09.03.2020	14:49:12	Asset activity Modernization added by Administrator		Szpital: WIN10, 192, 168, 69
🔓 Computer	09.03.2020	14:49:12	Status field changed of Pamieć	Kość 1 from empty to Nowy	Szpital: WIN10. 192.168.69
Display	09.03.2020	14:48:23	Asset activity Poprawka added by Administrator		Szpital: WIN10, 192.168.69
Keyboard	09.03.2020	14:48:23	Status field changed of Pamieć	Kość 1 from se to empty	Szpital: WIN10, 192, 168, 69
Pointing device	09.03.2020	14:43:39	Relation to document Destawa luty added by Administrator	ware in our geto empty	Szpital: WIN10, 192.168.69
OMPONENTS	09.03.2020	14:43:39	Removed Pamieć	8gt, Status - empty, Numer seryjny - 4342, Typ kodu kreskowego - QR_CODE, Numer inwentarzowy - 213, Nazwa - 8gb	(Nieprzypisane)
Floppy disk drive	09.00.2020		in the second se	oge, otalos comply, namel seryply - tota, typ now neonomego - tot_oout, numel amenalizowy = 213, Nazwa = ogo	(contraction)
& Optical drive & Processor & Video adapter INFRASTRUCTURE					
Processor § Video adopter IFRASTRUCTURE RYTYCZNE OWE THER § Karta	a.				
, Processor Video adapter FRASTRUCTURE YTYCZNE WE HER Karta , Mobile phone Mobile terminal	B				
p Processor § Video adapter FRASTRUCTURE PTYTYCZNE WWE FIER § Mobile phone Mobile terminal Modem	B.				
by Tocsasor by Video adapter HFRASTRUCTURE RYTYCZNE OVE FIER by Totel by Arata by Mobile panne by Mobile	a.				
Trocsor Video edaptor	a.				
Trocssor Trocssor Trocssor Trocssor Trocssor Trocs	B				
Processor Vices stayster WHRASTRUCTURE WHRASTRUCT	2				
e mosser Verkas Atapeter Verkas Atapeter Verkas Atapeter Verkas Atapeter Verkas Kanta Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Malan Mala)				
e mossor WFAASTRUCTURE WFAASTRUCTURE WFAASTRUCTURE WFAASTRUCTURE MADE In the most work of t	β.				
Processor Vice sature	r				
by Processor by Views subpart WIFAATBUCTURE GYTYPCZNE GYTYPCZNE UKWE by Ukobale phone by Ukobale phone by Ukobale by Uko	x				
Processor Video salayter NFRASTRUCTURE GRYTPCZHE Video salayter Video falser Video falser <td>e U</td> <td></td> <td></td> <td></td> <td></td>	e U				
Processor Voide adapter Voide adapt	8				
Processor	X				
Constant	8				Aktywuj system Windows
Processor				Event Log	Aktywuj system Windows Przydz do ustawień, aby astywować system Windows.

• Events

Events were described in <u>dedicated chapter</u>. ³¹⁴

Software

By selecting an item in the software section (the list on the left of the screen), a list of all applications detected by Agents will be displayed. Detection and configuration of software inventory is described in <u>this</u> <u>chapter</u>. 256

Documents

By selecting an item in the documents section (the list on the left of the screen), a list of documents of the selected category along with the established relations to assets will be displayed. **"All"** position displays all documents added to nVision. Use the buttons above the table to add, delete, edit or open the selected document.

More information about documents can be found in <u>documents</u> [188] and <u>document types</u> [212] chapters.

8.2.2 Assets properties

8.2.2.1 General

In nVision 11.5 the phrase of a 'fixed asset' has been replaced by the phrase of a 'asset'. Anything that Administrator would like to catalogue can be called 'asset'. Example of asets may include: printers, computers, IP phones, and all types of equipment or licenses that have been purchased by the organization.

The asset properties window has been includes several tabs

- General,
- Documents,
- Actions,
- History,
- Alerts,

• User Access.

The following items will be visible in the **General** tab: **Basic information**

- Name name assigned to the asset,
- Asset type information about asset type. Configuration of types is described in <u>asset types</u> [202] chapter,
- Belongs to ... a branch or device associated with the asset,
- Responsible person nVision user assigned to the asset,
- Status current status of the asset is marked with color. The status can be changed manually or by adding a change action. More information about statuses can be found in <u>asset status</u> [210] chapter
- Inventory number,
- Serial number,
- Barcode.

Additional fields

- Global fields a field available in each type of asset. See <u>global fields</u> [207] chapter for more information
- Additional fields a field available only in the selected asset type, defined at the moment of creating or editing the type. For more information see <u>asset types</u> [202] chapter

Asset				
Kość 1				
GENERAL	BASIC INFORMATION			
	* Name:	Kość 1		
	Asset type:	Memory -	<u>C</u> onfigure	
ACTIONS	Belongs to:	WIN10, 192.168.69.206		
	Person responsible:		Transfer	
HISTORY			Iranster	
	Status:	Nowy		
ALERTS	Serial number.	21esczxc		
	Inventory number:	3522963	<u>G</u> enerate	
WHO CAN USE		QR_CODE	_	
	ADDITIONAL FIELDS			
		Filter Q		
	Name	▲ Value		
	Specific asset type fields			
	Bits			
	Capacity	4 GB		
	Częstotliwość	4333		
	Osoba odpowiedzialna (prze			
	Slot Speed	None		
	Туре	Unknown		
	Global fields			
	CustomGlobal			
			Close	

Information about the assets that user can use will also be displayed in the user information window. More information available in <u>user assets</u> 226 chapter.

8.2.2.2 Documents

The **Documents** tab allows you to add, display and delete documents related to the selected asset. The documents associated with the selected asset will be visible in the table:

Asse	t									3
ł	Kość 1									
R	GENERAL	DOCUMENTS RELA	TED TO THIS ASSET							
1	DOCUMENTS	🕒 Send files 🛱 De	lete 👱 Properties	Dper	n 蔖 Save	🔏 Add relat	tion 🔏 Remove	relation	Filter Q	
	ACTIONS		Name Dostawa luty			File name dev_liczniki			Description	
	HISTORY		Faktura1	I	nvoice	text.pdf	PDF			
	ALERTS									
	WHO CAN USE									

Adding new document

To add new document simply click the send files option. The window for adding a new document will be displayed:

NV Axence nVision 11		×
Adding a new o	document	
* File:	Drag files or click to select	
* Name:		
* Document type:	· · · · ·]
Description:		
Department:	No department 🔹	
Relations Link documents with asset C Add 🛱 Remove	S	
Related assets		
Kość 1		
Back	Add document Cancel	

Window is divided into two sections - document information section and document relations with assets.

Document information

The required fields are marked with ' * '.

- File select or drag a file to the selected place,
- Name the name of the document visible in nVision,
- Document type select one item from the list adding new document types is described <u>document</u> <u>categories</u> categories categori

- Description additional text fields describing the document,
- Chapter additional field to specify a branch.

Relations

To associate a document with an asset, click the Add button and select assets from the list

Document removal

To remove the document, click **Delete** button.

Please note that deleting a document from a selected asset results in complete removal of this document from nVision. A deleted document that was associated with other assets will no longer be visible in the nVision console, and the relation will be deleted.

Document edition

Added documents can be edited by double-clicking on the selected item or by clicking the **Properties** button.

Adding and deleting relations

To add or remove an asset link to a document, use the **Add Relation** and **Delete Relation** buttons. Then select an item from the list.

Alternative process for adding documents

You can also add **Documents** by using the "**Assets**" tab displayed in the main nVision window. At the bottom of the list in the documents section, click first the document type then the **Send files** button located at top window pane. A window for adding a new document will be opened:

W Axence nVision 11					- ª ×
Generate MSI packages protocol MSI packages manager Inventory	Jates Audit Bo Manage device permissions Audit Bo Manage trustee permissions DataGuard Printout	print cost gvents	• • • • • •	*co Options	^
	documents Department: Any or none - All				
Q. Search (Ctrl+F)	end files 🖺 Delete 🗶 Properties 🗎 Open 🕅 Save				Filter Q
All assets Date	 Name 	Type File name	Extension File size Description	Asset name	
	2020 14:32:52 Dostawa luty I	Invoice dev_liczniki_wykres_bu	PNG 53 kB	Kość 1, Licencja testowa	
COMPONENTS 09.03.2	2020 14:32:24 srodkiTrwale2 8	Picture srodkiTrwale2.PNG	PNG 8 kB	Licencja testowa	
INFRASTRUCTURE 27.02.2	2020 14:30:50 Faktura1 I	Invoice text.pdf	PDF 11 kB	Kość 1, Licencja testowa	
E KRYTYCZNE					
D OTHER					
SOFTWARE					
> DOCUMENTS					
- 🔁 IIA 🚰					
- Agreement					
- E Invoice					
- Dicense					
- Picture					
- Proposal					

Saving and opening of added document

Documents can be opened from nVision and saved if necessary. To perform such actions, use the **Open** or **Save** buttons.

8.2.2.3 Actions

The **Action** tab allows you to add, display and remove activities performed on the selected asset. This allows to precisely describe the cost and activities carried out on individual assets. Actions associated with the selected asset will be visible in the table:

DOCUMENTS	Date						
	Date	▲ Name	Technician	Time	Cost	Status changed to	Description
	28.02.2020	Inspection or main	. Administrator	00m	0,00 zł	W użyciu	
ACTIONS	09.03.2020 14:48:07	Poprawka	Administrator	4h 00m	25,00 zł		sad
ACTIONS	09.03.2020 14:49:01	Modernization	Administrator	00m	0,00 zł	Nowy	
HISTORY							
ALERTS							
WHO CAN USE							

Adding new action

To add a new action, select the **Add action** option. The window for adding a new action will be displayed:

N Axence nVision 11			×
Adding ass	et activity		
* Activity name:			• • 🗹
* Technician:	Administrator		•
* Date of execution:	25.03.2020 14:41:26 🔻		
Cost:		zł	
Execution time:		hours	
		minutes	
Current asset status:	Nowy		
Change status to:	No change		•
Description:			
		Add activity	Cancel

Required fields are marked with ' * '.

- Name name of the activity selected from the list of activity templates. Clicking ^① the button will open the window where new activity template cam be add,
- Technician select the user responsible for the selected activity,
- Date of Execution required field with 'date' format,
- Execution time select set hours or minutes for action execution
- Cost additional information field,
- Change status to status that will be set after adding the activity (multiple option to choose),
- Description additional text field

Removing actions

Select the action to be removed and press **Remove** button.

Editing actions

194 Axence nVision Help

Added activities can be edited by double clicking on selected position and/or by clicking **Properties** button.

General activity configuration is described in the <u>asset actions</u> chapter.

8.2.2.4 History

The **History** tab in the asset properties window allows you to see a list of all changes made to the selected asset. The entries will include the date, description and person who made the change:

sset				C
Kość 1				
GENERAL	ASSET HISTORY			
DOCUMENTS		→ 11 17 111 111 111	01.03.2020 - 31.03.2020 -	Filter Q
	Date	▼ Time	✓ Action	Details
ACTIONS	09.03.2020	14:49:12	Asset activity Modernization added by Admin	strator
	09.03.2020	14:49:12	Status field changed of Pamięć	Kość 1 from empty to Nowy
HISTORY	09.03.2020	14:48:23	Asset activity Poprawka added by Administrat	or
41 59 70	09.03.2020	14:48:23	Status field changed of Pamięć	Kość 1 from qe to empty
ALERTS	09.03.2020	14:43:39	Relation to document Dostawa luty added by A	dministra
WHO CAN USE				
WHO CAN USE				
				Clos

To view the history of changes for all assets, go to the **Assets** tab located in the main window and then select **All assets / History**:

Axence nVision 11		- 8
Main Tools About nVision		
😑 🧠 📅 🚱 📷	polication caregories Tanage termidates porfigure licene type torfigure licene type Dataget united permissions porfigure licene type Dataget united permissions Dataget united p	
Devices Users Assets	Memory Department: Any or none • Assets History Events	
Q Search (Ctrl+F)	← → 11 11 11 11 11 11 11 11 11 11 11 11 1	Filter Q
All assets	A Date Y Time Y Action Details	Belongs to
GENERAL	993.2020 14.4912 Asset activity Modernization added by Administrator	Szpital: WIN10. 192. 168. 69. 206
& Computer	09.03.2020 14.49.12 Status Field changed of Pamie é Koéč 1 from empty to Nowy	Szpital: WIN10, 192.168.69.206
& Display		Szpital: WINTO, 192, 168,69,206
🐣 Keyboard		
- 💑 Pointing device	09.03.2020 14-48:23 Status field changed of Pamięć Kość 1 from qe to empty	Szpital: WIN10, 192.168.69.206
> COMPONENTS	09.03.2020 14.43.39 Relation to document Dostawa luty added by Administrator	Szpital: WIN10, 192.168.69.206
- 💑 Audio card - 🐥 Floppy disk drive	09.03.2020 14.29:54 Removed Pamięć Bgb; Status - empty, Numer seryjny - 4342, Typ kodu kreskowego - QR_CODE, Numer inwentarzowy - 213, Nazwa - 8gb	(Nieprzypisane)
IN INFASTNUCTURE SVATVTCZNE SVATVTCZNE Svatve Mobile plane Mobile terminal Mobile Plante Plante State and Schware (colorien) Schware (colorien) Tealer		
SOFTWARE		
Goftware audit		Aktywuj system Windows
Software audit Applications DOCUMENTS All	2 Event Log	Aktywuj system Windows Przejstż do ustawień, aby aktywować system Windows.

8.2.2.5 Alerts

Asset alerts can be created for individual assets or for a selected type of assets. Alerts allow to configure notification for the Administrator when certain conditions are met.

Alert for selected asset type

To create alert for selected asset type:

- 1. Open the resource editing window, go to the Alerts tab.
- 2. Click Add button, then select Add alert for type option.
- **3.** In the **Alert rules configuration window** select event(field) for which you want to create the alert and set the date the alert is to be created. Enter alert description and click **OK**. Optionally you can also set the e-mail to get reminder messages.

nV Alerts for field		×
Configure alerts rule for Memory type Use this window to configure alert condition and description.		
Configuration		
Automatically create alerts 2 💠 week(s) 🕶 before time	•	
for field	•	
Description:		
Send the message to this e-mail address: E-mail send	ing settings	5
E-mail address		
	_	
<u>0</u> K	<u>C</u> ancel	

A different method of adding alerts for selected asset types is described in <u>asset types</u> 202 chapter.

Alert for selected asset

To create alert for selected asset:

- 4. Open the resource editing window, go to the Alerts tab.
- 5. Click Add button, then select Add alert for this asset option.
- 6. In the Alert rules configuration window select event(field) for which you want to create the alert and set the date the alert is to be created. Enter alert description and click **OK**. Optionally you can also set the e-mail to get reminder messages.

N Alert	for ass	et		×
		nfigure alert for Kość 1 asset this window to configure alert condition and description.		
Config	uration	1		
	date: ription	28.03.2020	•	
∎ s	end the	e message to this e-mail address: E-mail sending ess	settings]
		<u></u> Ωκ	<u>C</u> ancel	

To know more about alerts, see <u>alerting</u> bab chapter.

8.2.2.6 Who Can Use

The **Who Can Use** tab presents information about users who have access to the selected asset, but are not necessarily responsible for it. Each asset can have any number of users who use it. Relation is only auxiliary - it does not grant any access or permissions for users set to use the asset.

To add an authorized user to the asset, use the Add Relation button and select users from the list:

GENERAL	USERS WHO CAN USE	
DOCUMENTS	<u>A</u> dd relation	Filter Q
ACTIONS	User name	
ACTIONS	Mikuz Administrator	
HISTORY	Aummistrator	
ALERTS		
ALLING		
WHO CAN USE		

Information about resources that the user can use will be displayed in the user information window after switching to the **Assets / Can Use tab**:

							Status	: Waiting for data
GENERAL	G Add relation 🛱 Remov	e relation 🛛 👱 Properties	Show (Everything) -	Group by (None)	•		Filter Q	
ACTIVITY	Name		Asset type	Belongs to	Czas	Inventory number	Serial number	Status
SCREENSHOTS	Kość 1		Memory	WIN10, 192.168.69.206	03:23:23	3522963	21esczxc	Nowy
ASSETS								
RESPONSIBLE FOR								
CAN USE								
SOFTWARE								
EVENTS								
EVENTS								
EVENTS DATAGUARD BLOCKADES								
SOFTWARE EVENTS DATAGUARD ABLOCKADES SETTINGS PERMISSIONS								
EVENTS DATAGUARD BLOCKADES SETTINGS								

8.2.2.7 Barcodes

Kody kreskowe moga zostac przypisane do poszczególnych zasobów w nVision. Zasoby z nVision mozna powiazac z rzeczywistymi urzadzeniami poprzez naklejenie na nich etykiet z kodem kreskowym. Identyfikator zaszyty w kodzie kreskowym oznacza jednoczesnie (unikalny) numer inwentarzowy zasobu. Jesli urzadzenia posiadaja juz swoje unikalne identyfikatory z kodem kreskowym, to istnieje mozliwosc aktualizacji numeru inwentarzowego za posrednictwem aplikacji mobilnej.

Aby dowiedziec sie wiecej o drukowaniu etykiet, przejdz do rozdzialu <u>Drukowanie etykiet</u> 22⁹]. Aby dowiedziec sie wiecej o instalowaniu i korzystaniu z aplikacji mobilnej, przejdz do rozdzialu <u>Aplikacja</u> <u>mobilna</u> 23¹].

Podstawowe informacje

Kazdy zasób posiada pole zawierajace numer inwentarzowy. Moze on zostac podany recznie lub wygenerowany poprzez klikniecie przycisku **Generuj**. Standardowo numer taki składa sie z 7 cyfr, jest prezentowany w postaci kodu kreskowego QR Code i jest unikalny. Liczbe 7-cyfrowa mozna przedstawic w postaci kazdego ze wspieranych rodzajów formatów kodu kreskowego (jednowymiarowe: CODABAR, COD 39, CODE 93, CODE 128, EAN 8, EAN 13, UPC A, UPC E; dwuwymiarowe: QR CODE).

V Ass				
ł	WinTest			
R	GENERAL	BASIC INFORMATION		
	DOCUMENTS	* Name:	WinTest	
-		Asset type:	Computer 🗸	<u>C</u> onfigure
*	ACTIONS	Belongs to:	WinTest, 192.168.69.206 (WIN10)	
		Person responsible:		Transfer
છ	HISTORY	Status:		
~			Nowy	
6	ALERTS	Serial number:	4783-1719-9041-9283-6900-3387-88	
	WHO CAN USE	Inventory number:	4270568	<u>G</u> enerate
		Bar code:	QPLCODE Qptions CODE_128 CODE_39 CODE_93 CODE_93 EAN_13 CODE UPC_A UPC_E	
			Filter Q	
		Name	▲ Value	
		Specific asset type fields		
		Description	AT/AT COMPATIBLE	
		Info 1	ASD	
		Info 2		
		Manufacturer	Microsoft Corporation	
		Model Original username	Virtual Machine Miku	
		OS type	x64-based PC	
		Global fields		
		Location		
		Location		
				Close

8.2.3 Assets settings

8.2.3.1 Basic information

The asset settings window allows the Administrator to configure asset properties according to his needs. To display the asset settings window click **Asset settings** button located on **Main** ribbon.

					+ 📮 🔘				
MSI packages Print bar Assets									
manager codes settings									
AL	w Axence nVision 11						_ ×		
NENTS	- Avence in such th						L ^	życiu	
	Asset settings							zyciu	
	02							zyciu	
	ASSET TYPES	O Add 🗑 Delete 🗹 Prop	erties			Filter Q		zyciu	
	ASSET TYPE FOLDERS	Туре		Folder	Description	Audited			
	Addel TITE FOLDERS	Audio card	(built-in)	Components	Audio card	Not audit	d	życiu	
	ASSET STATUSES	Computer	(built-in)	General	Computer asset	 Audited 		życiu	
TRUCTURE		Display	(built-in)	General	Display	 Audited 		zyciu	
	ASSET DETECTION	Floppy disk drive	(built-in)	Components	Floppy disk drive	 Not audit 	đ	zyciu	
	•	Hard drive	(built-in)	Components	Hard drive	 Not audit 	đ	zyciu	
	GLOBAL FIELDS	Keyboard	(built-in)	General	Keyboard	 Not audit 	d	zyciu	
		Memory	(built-in)	Components	Memory	 Not audit 	đ	życiu	
	ACTION TEMPLATES	Motherboard	(built-in)	Components	Motherboard	 Not audit 	đ	życiu	
ZNE		Network adapter	(built-in)	Components	Network adapter	 Audited 			
	NATA SOURCES	Optical drive	(built-in)	Components	Optical drive	 Not audit 	d	zyciu	
		Pointing device	(built-in)	General	Pointing device	 Not audit 	d	zyciu	
	B DOCUMENT TYPES	Processor	(built-in)	Components	Processor	 Not audit 	d		
		Video adapter	(built-in)	Components	Video adapter	 Not audit 		Eyciu	
	PROTOCOL SETTINGS	Camera		Infrastructure		 Not audit 		życiu	
		Desk phone		Infrastructure		 Not audit 	ed	w.	
		Karta		Other		Audited		zyciu	
		Mobile phone		Other		 Not audit 	ed .	zyciu	
		Mobile terminal		Other		 Not audit 	ed	zyciu	
		Modem		Other		 Not audit 	d	życiu	
IRE		NAS		Other	Macierz	 Not audit 	d	życiu	
		Network device		Infrastructure	Network device	 Not audit 	ed	życiu	
								zyciu	
ENTS							Glose		

The settings window has been divided into several tabs:

- Asset Types,
- Asset Types Folders,
- Asset Status,
- Asset Detection,
- Global fields,
- Activity templates,
- Data sources,
- Document Types,
- Document Types

Each tab is described in detail in following chapters.

8.2.3.2 Asset detection

The Asset Detection tab allows to specify what resources will be automatically created based on the data collected by the Agent.

Automatic asset adding

Go to **Asset Settings** window, then open the **Asset Detection** tab. Here you can specify automatic detection only for the types of assets visible in the list in this window. Positions in this list cannot be edited:

🌡 Asset settings			
ASSET TYPES		Filter Q	
ASSET TYPE FOLDERS	Name Audio card	Discover	
ASSET STATUSES	Computer Display		
ASSET DETECTION	Floppy disk drive Hard drive		
GLOBAL FIELDS	Keyboard Memory		
ACTION TEMPLATES	Motherboard Network adapter		
DATA SOURCES	Optical drive Pointing device		
DOCUMENT TYPES	Processor	×	
PROTOCOL SETTINGS	Video adapter	×	
	Automatically delete assets that are no longer detected by the Agent and have	not been edited 🔽	
			C

By default, "Computer" and "Display" assets are automatically detected. To enable automatic detection for the selected type simply switch the button in the **discover** column by the selected position.

Automatic asset removal

For automatic asset removal simply click the switch placed at the bottom of the asset discovery tab:

ASSET TYPES			Filter Q
ASSET TYPE FOLDERS	Name	 Discover 	
ASSET TYPE FOLDERS	Audio card		×
ASSET STATUSES	Computer		
ASSET STATUSES	Display		
ASSET DETECTION	Floppy disk drive	(×
	Hard drive	(×
GLOBAL FIELDS	Keyboard	[×
	Memory	[×
ACTION TEMPLATES	Motherboard		×
	Network adapter		×
DATA SOURCES	Optical drive		×
	Pointing device		×
DOCUMENT TYPES	Processor		×
	Video adapter		×
PROTOCOL SETTINGS			

If the automatically detected resource becomes invisible to the Agent, then:

- if the switch is on, then asset remains unchanged. It is default setting for new nVision installations.
- if the switch is off, then asset will be removed provided it has not been edited by Administrator.

Removing device(host) does not remove the assets which have been automatically created by Agent if the switch was off.

8.2.3.3 Asset types

Asset Types tab is available in the Asset Settings window, which allows you to display the resource types from existing database and define new types. Types help for better categorization of individual resources.

The Administrator can add, edit and delete asset types, with the exception of built-in types that have the additional security settings described in this chapter. The data is shown in table:

				Distribution Announcements Open HelpDesk			
	Axence nVision 11					×	
	Asset settings					Value Warranty to	
	Asset settings					tyciu 150,00 zł	
						tyciu 120,00 zł 04.01.2020	
	ASSET TYPES	O Add 🖺 Delete 🧕	Properties		Filter Q	życiu 0,00 zł	
ard drive 🔫		Туре	▲ Folder	Description	Audited	życiu 0,00 zł	
	ASSET TYPE FOLDERS	Audio card	(built-in) Components	Audio card	O Not audited		
		Computer	(built-in) General	Computer asset	Audited	życiu 0,00 zł	
	ASSET STATUSES	Display	(built-in) General	Display	Audited		
		Floppy disk drive	(built-in) Components	Floppy disk drive	Not audited	życiu 0,00 zł	
	ASSET DETECTION	Hard drive	(built-in) Components	Hard drive	Not audited	tyciu 0,00 zł	
ASTRUCTURE		Keyboard	(built-in) General	Keyboard	O Not audited	zyciu 0,00 zł	
	GLOBAL FIELDS	Memory	(built-in) Components	Memory	 Not audited 	zyciu 0,00 zł	
		Motherboard	(built-in) Components	Motherboard	 Not audited 	zyciu 0,00 zł	
	ACTION TEMPLATES	Network adapter	(built-in) Components	Network adapter	 Audited 	zyciu 0,00 zł	
	-	Optical drive	(built-in) Components	Optical drive	Not audited	zyciu 0,00 zł	
	DATA SOURCES	Pointing device	(built-in) General	Pointing device	Not audited	Eyciu 0,00 zł	
YCZNE		Processor	(built-in) Components	Processor	Not audited		
	B DOCUMENT TYPES		(built-in) Components		Not audited	zyciu 0,00 zł	
R		Video adapter	(built-m) Components	Video adapter		zyciu 0,00 zł	
	PROTOCOL SETTINGS	Camera	Infrastructure		 Not audited 		
		Desk phone	Other		 Not audited 	zyciu 0,00 zł	
		Karta			Audited	zyciu 0,00 zł	
		Mobile phone	Other		 Not audited 	y 0,00 zł	
		Mobile terminal			 Not audited 	tyciu 0,00 zł 18.02.2020	
		Modem	Other		 Not audited 	życiu 222,00 zł	
		NAS	Other	Macierz	 Not audited 	zyciu 21 333,00 zł	
		Network device	Infrastructure	Network device	 Not audited 	zyciu 0,00 zł	
WARE		Pendrive	Other		 Not audited 	zyciu 6 666,00 zł	
		Printer	Infrastructure	Printer	Audited	zyciu 250,00 zł	
					Close		
				Event Lo			

Each asset type is placed in one folder. **The Assets tab**, available from the main program window allows you to display the folders and their associated types.

Built-in asset types

nVision contains a list of built-in assets types, which include the following:

- Basic (folder):
 - o Computer,
 - o Display,

- o Keyboard,
- o Pointing device.
- Components (folder):
 - o Hard drive,
 - o Memory,
 - o Optical Drive,
 - o Motherboard,
 - o Processor,
 - o Network adapter,
 - o Video adapter,
 - o Audio card,
 - o Floppy disk drive,
- Infrastructure devices (folder):
 - o Printer,
 - o Network device,
 - o Desk phone,
 - o Camera,
 - o UPS,
 - o Projector,
- Mobile devices (folder)
 - o Mobile phone,
 - o Tablet,
 - o SIM Card,
 - o Modem,
 - o Pendrive,
 - o Mobile terminal
- Other (folder):
 - o Car,
 - o Software (obsolete).

For built-in asset types:

- You cannot change the name or delete the built-in type.
- You cannot change the built-in folder.
- You can add additional fields for the built-in type, but you cannot delete fields that already exist

Each asset type has the following properties:

- Name type name,
- Folder folder where type is stored
- Inventory number sets prefix and suffix for selected type
- Audited mark to set, if the assets of particular type should be stored in audit archive

By double-clicking the asset type in the table, you can view its properties. Alternatively, you can use the Properties button.

Properties window presents the properties of the selected item together with **Additional fields** and **Alert rules** tabs.

Additional fields

Additional fields allow the Administrator to add field, which will be filled only with type for which it has been configured:

Axence nVision 11	
Asset settings	
ASSET TYPES ASSET TYPES	
Audited	
ASSET TYPE FOLDERS Configure asset type	
Audited	
Asset type configuration	
* Name: Desk phone	
Folder: Infrastructure	
B GLOBAL FIELDS Description.	
O. Not audited	
A ACTION TEMPLATES Inventory number: Prefix Suffix O Not audited	
Audited	
🗟 DATA SOURCES	
Additional fields Alert rules O. Not audited	
B DOCUMENT TYPES Delete. Properties Filter Q O Not audited	
Field name + Type Description Required Not audited	
PROTOCOL SETTING Axence nVision 11	
Not audited	
Add new field	
O Not audited	
Field configuration O Not audited	
* Name: O Not audited	
Description:	
C Audited	
Required:	
QK <u>Cancel</u>	se

You can add global fields that will be visible and can be filled for each resource. **Global fields** are described in the next [207] chapter. [207]

Alert rules

Asset alerts can be created for individual assets or for a selected type of assets. Alerts allow to configure notification for the Administrator when certain conditions are met.

The Asset rule tab allows you to add an alert for a selected resource type.

To add an alert:

- Go to Alert rules tab and click Add.
- In the **Alert rules configuration window** select event(field) for which you want to create the alert and set the date the alert is to be created.

Adding new asset type

To add a new asset type, go to the **Asset Types** tab in the **Asset Settings** window and click the **Add button**. The new asset type wizard will appear:

Axence nVision 11		
Asset settings		
ASSET TYPES	Filter Q	
	Audited	
Configure asset type	O Not audited	
ASSET STATUSES	Audited	
Asset type configuration	🥥 Audited	
* Name: Desk phone	O Not audited	
Folder. Infrastructure	O Not audited	
GLOBAL FIELDS Description:		
ACTION TEMPLATES Inventory number: Prefix Suffix		
Audited: 🔲 Include this asset type in snapshot	Audited	
👼 DATA SOURCES		
Additional fields Alert rules	O Not audited	
DOCUMENT TYPES I Add Delete	Filter Q O Not audited	
	Description Required O Not audited	
PROTOCOL SETTINGS	O Not audited	
	 Not audited 	
<no data="" display="" to=""></no>	Audited Not audited	
	O Not audited	
	O Not audited	
	QK Cancel O Not audited	
Pendrive Uther	O Not audited	
Printer Infrastructure	Printer Ø Audited	

Then fill the configuration fields. The required fields are "Name" and "Folder". You can also add additional fields for the asset type you are creating. Once the configuration, is complete, confirm the settings by pressing **OK**.

In the "Folder" field it is only possible to select an item from the list of available folders. For more information about folders, see <u>folder types</u> 206 chapter.

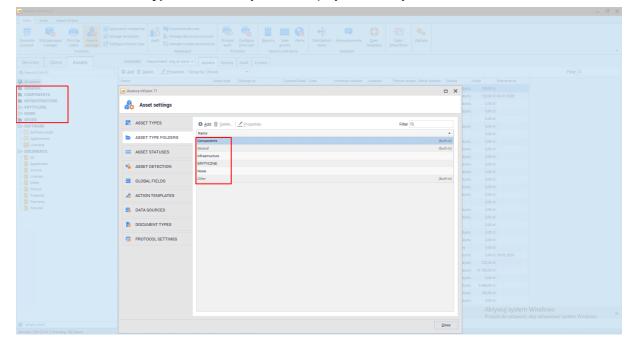
Removing asset type

To delete an existing (non-built-in) asset type, go to the **Asset Types** tab in the **Asset Settings** window and click the **Delete** button.

If the selected type is in use, removing it will also delete all assets of this type.

8.2.3.4 Asset type folders

Asset type folders allow the Administrator to assign types to organizational units. The **Assets** tab, available from the main program window, allows you to display the folders and their types. It is possible to display and modify the list of available folders. To do so, go to **Asset settings** window and then to the **Asset Type Folder** tab, you can display and modify the list of available folders:



Adding new asset folder

To add a folder, go to the **Asset Settings** window and then to the **Asset Type Folders tab**. Click the **Add** button, then enter the name of the new folder.

Adding an asset type to a selected folder is described in the asset types 202 chapter.

Removing new asset folder

To delete a folder, go to the **Asset Settings** window and then **Asset Type Folders** tab. After clicking **Delete**, the selected item will be deleted. After deleting the folder, all asset types present in this folder will be moved to the **"Other"** folder.

Built-in folders

nVision offers several built-in folders for asset types::

- Basic (built-in),
- Components (built-in),
- Infrastructure devices,
- Mobile devices,
- Other (built-in).

Folders marked as built-in cannot be deleted or edited.

8.2.3.5 Global fields

Global Fields tab in the **Asset Settings** window allows the Administrator to add additional fields to all types of assets. The Administrator can create his own global fields that will store data of the selected type. Global fields must have unique names. All created global fields are presented in tabular form:

	🕒 🗚 dd 🛱 Delete 📝 Prop	perties		Filt	ter Q
	Field name	*	Туре	Description	Required
ASSET TYPE FOLDERS	CustomGlobal		Logical	test	
	Inventory number	(built-in)	Text	Unique inventory number	
ASSET STATUSES	Last mobile save	(built-in)	Date and time	When asset was saved through M	obile
ASSET DETECTION	Last mobile scan	(built-in)	Date and time	When asset was scanned through	Mob
ASSET DETECTION	Location	(built-in)	Text	Where asset is located	O No
GLOBAL FIELDS	Name	(built-in)	Text	The name of asset	
OLODAL TILLEDO	Serial number	(built-in)	Text	Unique serial number	
ACTION TEMPLATES	Value	(built-in)	Currency	The value of asset	O No
	Warranty to	(built-in)	Date	Warranty expiration date	O No
DOCUMENT TYPES					
PROTOCOL SETTINGS					
PROTOCOL SETTINGS					
PROTOCOL SETTINGS					

Global fields allow you to add additional information about the resource and extend the possibilities of selecting assets from the list. For example: after adding the 'CustomGlobal' global field, an additional column will be created with the value set to this field. By clicking the filter icon in this column you can filter lists in every column:

Axence nVision 11										
Generate MSI packages Brint bar Assets	plication categories anage templates nfigure license type DataGuard	Printout audit	print cost e	View Alerts vents and alerts	tasks	nouncements	Open elpDesk S	Open martTime	¢ _o Dptions	
Devices Users Assets	All assets Department: Any or none 🔻 Asse	ts History	Audit Events							
Q Search (Ctrl+F)	Add	one)	-							
All assets	Name	Asset type	Belongs to	CustomGlobal	Inventory number	Location F	Person respon	Serial number	Status \	alue Warranty to
GENERAL	ZELMER	Karta	(Unassigned)		AGH002				W użyciu	150,00 zł
COMPONENTS	PHILIPS	Karta	(Unassigned)		AGH001				W użyciu	120,00 zł 04.01.2020
INFRASTRUCTURE	Remote Desktop Mouse Device	Pointing devi	WIN10, 192.168.69.206						W użyciu	0,00 zł
	UPS APC 1000	Keyboard	(Unassigned)		SP/ST-1070	WOM Sala A			W użyciu	0,00 zł
OTHER	Microsoft Remote Display Adapter	Video adapter	WIN10, 192.168.69.206							0,00 zł
⇒ SOFTWARE	UPS APC 1000	Keyboard	(Unassigned)		SP/ST-1072	WOM Sala A			W użyciu	0,00 zł
Software audit	Rozszerzona (101 klawiszy lub 102 klawisze)	Keyboard	WIN10, 192.168.69.206							0,00 zł
Applications	Microsoft Virtual Disk	Hard drive	WIN10, 192.168.69.206						W użyciu	0,00 zł
Licenses	Microsoft Hyper-V Network Adapter	Network ada	WIN10, 192.168.69.206	0	NET4207107902				W użyciu	0,00 zł
	Rozszerzona (101 klawiszy lub 102 klawisze)	Keyboard	WIN10, 192,168,69,206						W użyciu	0.00 zł
Agreement	Microsoft Virtual DVD-ROM	Optical drive	WIN10, 192, 168, 69, 206						W użyciu	0.00 zł
Invoice	HID-compliant mouse		WIN10, 192, 168, 69, 206						W użyciu	0.00 zł
	UPS APC 1000	Keyboard	(Unassigned)		SP/ST1071	WOM Sala A			W użyciu	0.00 zł
Other	AMD A10-7890K Radeon R7, 12 Compute Cores 4C+8G	Processor	WIN10, 192, 168, 69, 206						W użyciu	0,00 zł
	Microsoft Corporation Virtual Machine		WIN10, 192.168.69.206					4783-1719-904	-	0,00 zł
Proposal Warranty	Generic Non-PnP Monitor	Display	WIN10, 192.168.69.206		6774329			4100 1119-304	IV uzyciu	0.00 zł
Warunki					0//4329	11.11				
	macierz1	NAS	(Unassigned)			Kraków			W użyciu	0,00 zł

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Adding global field

To add a global field, go to the **Asset settings / Global fields** window and click **Add**. The new global field configuration window will open:

nv Axe	nce nVision 11								
	Asset settings								
		🕒 Add 🗊 Delete 🗾 Pit							
		Field name CustomGlobal		 Type Logical 	Descripti			iired	
		Axence nVision 11			·····		×		
		🛔 Add new glob	al field						
		Field configuration							
			NewGlobal						
		* Type: * Options:	1			▼ ■			
			2 3 4			か つ つ つ つ つ			
			4 Add option			ш			
		Description:	Add option						
		Required:							
						<u>O</u> K <u>C</u> ancel			
									Close

Once the fields are filled, confirm the configuration with the **OK** button.

Removing global field

To delete a global field, go to the **Asset settings / Global fields** window and select **Delete**. **Deleting a global field will affect all the values it posses being lost on all assets**.

Built-in global fields

nVision offers several built-in global fields:

- Warranty to,
- Location,
- Name,
- Inventory number,
- Serial number,
- Last mobile save,
- Last mobile scan,
- Value.

Global fields marked as built-in cannot be deleted or edited.

8.2.3.6 Action templates

The functionality of adding activities for an asset allows you to add, display and delete activities performed on a selected asset. You can precisely describe the cost and activities carried out on individual assets. Task templates allow the Administrator to define a series of actions that can be performed on an asset. Using templates, assigning activities to a resource takes a few seconds and gives the possibility of fast edition (e.g. cost) at the time of adding.

ASSET TYPES	Add template Delete	. 📝 Properties				Filter Q	
ASSET TYPE FOLDERS	Name	▲ Time		Cost		Description	
ASSET TITE FOLDERS	Inspection or maintenance		00m		0,00 zł		
	Internal repair		00m		0,00 zł		
ASSET STATUSES	Modernization		00m		0,00 zł		
	Poprawka		4h 00m		25,00 zł	sad	
ASSET DETECTION	Repair on the site		00m		0,00 zł		
	Replacement of component		00m		0,00 zł		
	Software installation		00m		0,00 zł		
GLOBAL FIELDS	Supplementing the consumable	item	00m		0,00 zł		
	Utilization Other actions		00m 00m		0,00 zł 0,00 zł		
DATA SOURCES DOCUMENT TYPES PROTOCOL SETTINGS							

Adding new action

To add a new action, go to the **Asset Settings** and select **Action Templates**. Click **Add template** button, the window for adding new asset action template will open.

"Name" is the only required field. The Administrator can add costs or date of performance information. "Change status to" field will allow you to automatically change the asset status after adding the selected action to the asset

Adding actions to an asset is described asset actions actions chapter.

Built-in actions

nVision offers several built-in action types::

- Upgrade,
- Internal repair,
- External repair,
- Maintenance,
- Software installation,
- Component replacement,
- Resupplementation,

- Utilization,
- Other action.

The Administrator can edit and remove items from the list of built-in actions (excluding the "Other action" item).

8.2.3.7 Asset statuses

Asset statuses tab allows adding additional asset distinction and categorization. Each asset must always have exactly one status set. The list of available statuses is available in the Asset settings / Asset statuses tab:

NV Axence nVision 11						×
Asset settings						
ASSET TYPES	🕒 Add 💼 Delete 🗹 Propertie	25		Filter Q		
ASSET TYPE FOLDERS	Name W użyciu	Color	Description	On	ler ·	•
ASSET STATUSES	Nowy Zepsute					
SASSET DETECTION					T	
GLOBAL FIELDS	Do wymiany					
ACTION TEMPLATES						
n DATA SOURCES						
DOCUMENT TYPES						
PROTOCOL SETTINGS						
					Clos	e

All statuses are presented on the asset lists so that it is possible to filter and sort by status (according to the order of statuses in the list):

Axence nVision 11 Main Tools About nVision											-
enerate MSI packages Print bar Assets	Application categories Manage templates	Printout		View Alerts		nouncements	Dpen		¢. Options		
	Configure license type 💏 Manage trustee permissi		print cost	gvents	tasks		HelpDesk 8	ImartTime			
Inventory	DataGuard	Phr	itouts Repor	ts and alerts		HelpDesk					
Devices Users Assets	All assets Department: Any or none • Ass	1	Audit Events								
Search (Ctrl+F)	O Add	lone)	-								Filter Q
All assets	Name	Asset type	Belongs to	CustomGloba	Inventory number	Location	Person respon	Serial numbe	Status •	Value Warranty to	
GENERAL	Microsoft Virtual Disk	Hard drive	WIN10, 192.168.69.206	1	7745617					0,00 zł	
COMPONENTS	Kość 1	Memory	WIN10, 192.168.69.206		3522963			21esczxc	New	0,00 zł	
INFRASTRUCTURE	test2	Testowy	(Unassigned)		OFFLINE11252596.	Kraków			New	223,00 zł	
KRYTYCZNE NOWE	ZELMER	Karta	(Unassigned)		AGH002				Used	150,00 zł	
DTHER	PHILIPS	Karta	(Unassigned)		AGH001				Used	120,00 zł 04.01.2020	
SOFTWARE	Remote Desktop Mouse Device	Pointing devi	WIN10, 192.168.69.206						Used	0,00 zł	
Software audit	UPS APC 1000	Keyboard	(Unassigned)		SP/ST-1070	WOM Sala A			Used	0,00 zł	
Applications	UPS APC 1000	Keyboard	(Unassigned)		SP/ST-1072	WOM Sala A			Used	0,00 zł	
Licenses	Microsoft Virtual Disk	Hard drive	WIN10, 192, 168, 69, 206						Used	0.00 zł	
AI	Microsoft Hyper-V Network Adapter	Network ada	WIN10, 192.168.69.206		NET4207107902				Used	0.00 zł	
Agreement	Rozszerzona (101 klawiszy lub 102 klawisze)	Keyboard	WIN10, 192, 168, 69, 206	0					Used	0.00 zł	
Invoice	Microsoft Virtual DVD-ROM	Optical drive	WIN10, 192.168.69.206	-					Used	0,00 zł	
🗎 License	HID-compliant mouse		WIN10, 192.168.69.206						Used	0.00 zł	
Other	UPS APC 1000	Keyboard	(Unassigned)	0	SP/ST1071	WOM Sala A			Used	0.00 zł	
Picture Proposal	AMD A10-7890K Radeon R7, 12 Compute Cores 4C+8G	Processor	WIN10, 192, 168, 69, 206	0					Used	0.00 zł	
Warranty	Microsoft Corporation Virtual Machine		WIN10, 192, 168, 69, 206					4783-1719-90		0.00 zł	
Warunki	magierz1	NAS	(Unassigned)	0		Kraków			Used	0.00 zł	
	Microsoft Hyper-V Video		WIN10.192.168.69.206						Used	0.00 zł	
	Generic PnP Monitor	Display	WIN10, 192, 168, 69, 206	0	9146256				Used	0.00 zł	
	2 GB (Unknown)	Memory	WIN10, 192, 168, 69, 206						Used	0.00 zł	
	Axence nVision Agent		WIN10, 192, 168, 69, 206	0					Used	0.00 zł 18.02.2020	
	123test	Testowy	Szoital	0	OFFLINE2861305	2010			Used	222.00 zł	
	2134	Testowy	(Unassigned)	0	OFFLINE11249425				Used	21 333.00 zł	
	Komputer admin	Network ada	(Unassigned)		NET4202000564		Administrator		Used	0.00 zł	
	dwe	Testowy	(Unassigned)	0	0FFLINE11280068	Kraków	100000		Lised	6 666.00 zł	
	PANASONIC	Karta	(Unassigned)		AGH003				Used	250,00 zł	
	drukarka1	Printer	(Unassigned)		6539449				Used	0.00 zł	
	123	Computer	(Unassigned)		8423387				Used	0,00 zł	
	test1	Testowy	(Unassigned) 192.168.69.1		0423307 OFFLINE1454424	Kraków			Used	5,00 zł	
		reality		_	01121421404424	N BOOM			Used		
	No connection from external Axence nVision Age	ents. Check if por	t 4436 is open and if Agent	installation path	is added to exclusion	s list in antimah	vare software.				ktywuj system Windows rejdź do ustawień, aby aktywować system Windows.
What's new?	â						Event Log				

Adding new asset status

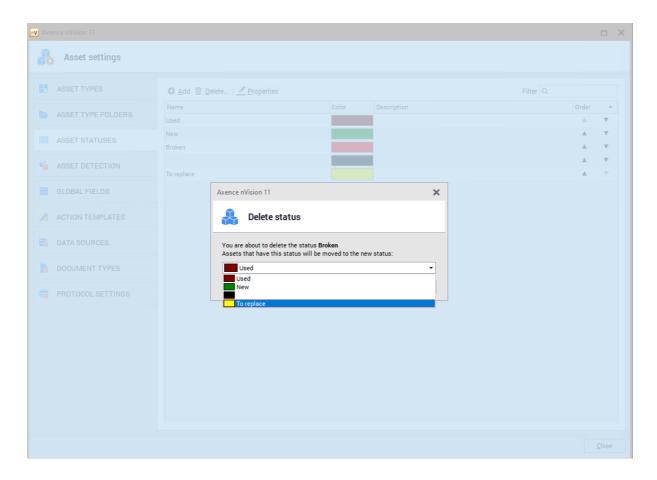
To add a new status, go to the Asset settings and select Asset statuses. After clicking the Add button, the window for adding a new status will open.

Fields "Name" and "Color" are required. The Administrator can include additional information and determine whether the status should be the default for new resources.

Adding status to a n asset is described in the asset status and chapter.

Removing asset status

To remove status, go to the **Asset Settings** window and select **Asset Statuses**. Status can be deleted by selecting it from the list and clicking **Delete** button. You must indicate a new status for assets that currently use the removed status.



Built-in statuses

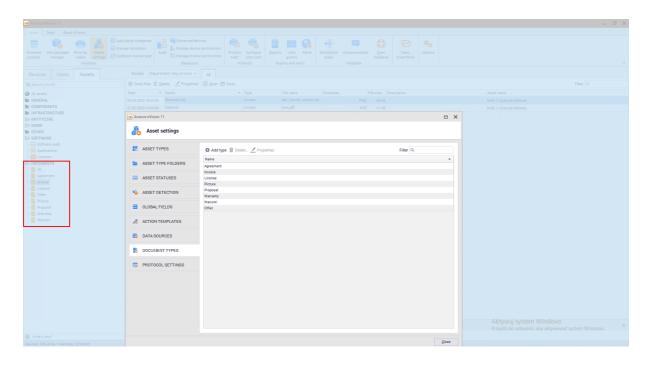
nVision offers several built-in status types:

- New (default for new resources);
- In use;
- In storage operational;
- In storage broken;
- In repair;
- To be disposed;
- Sold;
- Disposed;
- Lost.

8.2.3.8 Document types

Document types tab allows you to link an attachment (file) to an asset. The administrator can add, edit or delete document types.

Document types allow for more precise categorization of documents added to the program's database. You can also display documents by type from the **Asset** window in the main program console:



Adding new document type

To add a new document type, go to the **Asset Settings** and select **Document Types**. Click the **Add type** button, the window for adding a new type will open.

Types can be assigned to documents while documents are added or edited. These operations are described in <u>documents</u> the documents docu

Removing document types

To delete a document type, go to the **Asset Settings** window and select **Document Types**. Click **Delete** button to remove the selected item. Documents which type has been deleted will be assigned to the "Other" type.

Built-in document types

nVision offers several built-in document types:

- Invoice,
- Contract,
- Request,
- License,
- Warranty,
- Picture,
- Other (special type which cannot be edited or removed).

8.2.3.9 Protocol Templates

In the nVision 13.5 version, the functionality of the protocol template generator was introduced, replacing the existing solution, which allows for the generation of resource transfer protocols. The functionality of generating templates allows you to create many different templates depending on the requirements and needs of a given organization.

Protocol templates can be copied, deleted (all protocol templates cannot be deleted - nVision must have at least 1 protocol template) and edited. Every Administrator with access to the Inventory module in nVision has access to both the protocol generator and the list of created templates.

After going to the **Asset Settings** tab, and then to the **Protocol templates** tab, the Administrator has the option to set certain constants for each property protocol, and to add a <u>protocol template</u> 222.

The administrator can configure globally some of the protocol parameters, e.g .:

Company's data

1. Logo

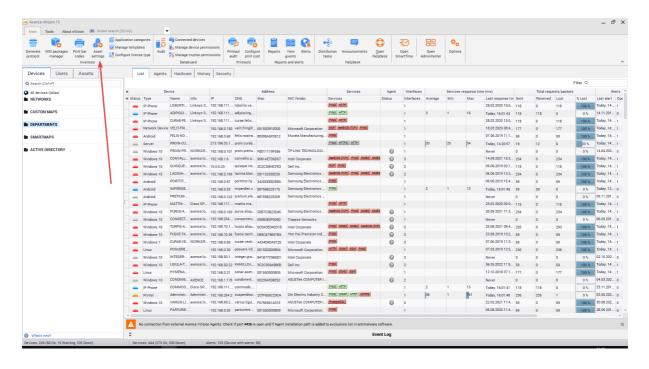
It is possible to add a logo that will be added to the header of all protocol templates. To add a logo,

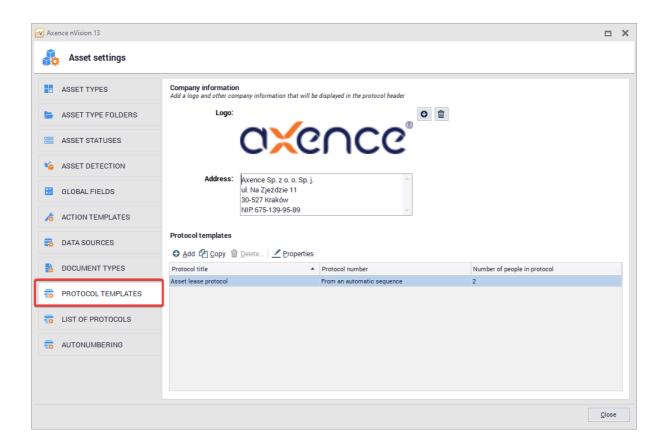
click the icon ${}^{{}_{ ext{con}}}$ and select a graphic file. To remove the logo, use the button ${}^{{}_{ ext{con}}}$.

2. Address

To add an address to the protocol header, this text field must be completed.

The process of adding protocol templates and generating protocols from them is described in the <u>Generating protocols</u> chapter.





8.2.3.10 Protocols

In the nVision 13.5 version, the functionality of the <u>protocol template generator</u> was introduced. In **Asset Settings**, in the **Protocols** tab, Administrators who have access to the Inventory module in nVision can view the list of protocols generated by the system in the form of a table. The table consists of several columns:

- Protocol title
- Protocol number
- Date
- Assets (count)
- People (count)

The table can be filtered by the protocol title and also searched by keywords using the search engine.

The following actions are available from the protocol history window:

- Add opens the protocol generation window
- Delete deletes the given protocol
- Open opens the given protocol in the browser
- Save allows you to export a given protocol in .PDF format

Axence nVision 13				×
New protocol template				
Basic informations				
* Protocol title:				
* Protocol number:	Entered manually		•	
Protocol description:			A	
Closing remarks:				
People names Names for people who participate in the ac * Number of people in protocol: * Name of 1st person:	tivity described by the pr	otocol (for example: "Returner", "Rece	iver", "Acceptor" etc.)	
* Name of 2nd person:				
Protocol columns Add (up to 10) columns that will be include ① Add field		Add asset type		
Column name		Field type (not displayed in reports	3)	
	<no data="" t<="" th=""><th>to display></th><th></th><th></th></no>	to display>		
			<u>O</u> K <u>C</u> anc	el

8.2.3.11 Autonumbering

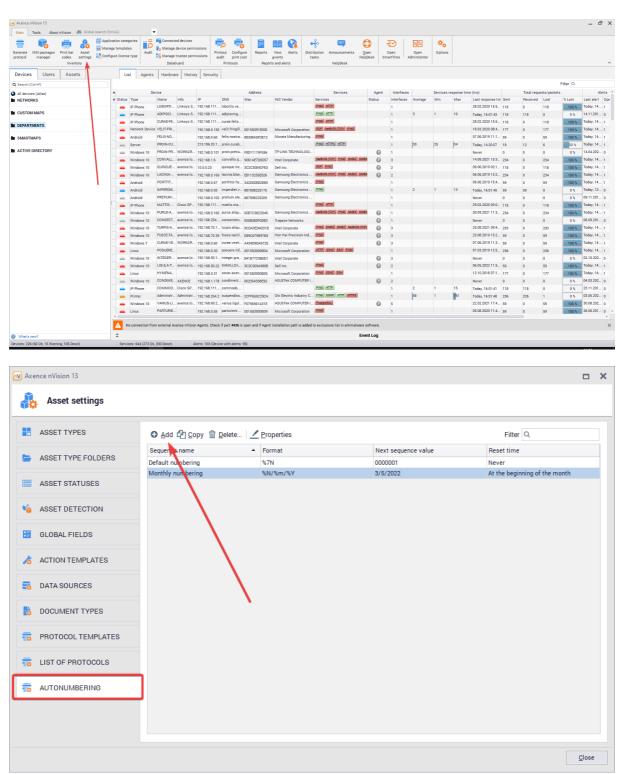
The autonumbering functionality has been introduced in nVision 13.5. This chapter describes how to add an auto-numbering sequence and how it applies to your system.

Autonumbering is primarily used to facilitate the inventory of assets and documents in the nVision console. Having created several autonumbering sequences, e.g. due to the type of asset, protocol or license, we can easily and transparently track the progress and changes in our organization.

Adding an auto-numbering sequence

To add an autonumbering sequence:

- 1. In the main nVision console window, click on the Main tab, and then on Asset settings.
- 2. Click on the AutoNumber tab.
- 3. Click on Add button.



In the window for adding autonumbering sequences, certain parameters have to be configured. First of all, establish a unique name for the AutoNumber sequence (there cannot be two sequences with the same name in your system), and then proceed to creating the AutoNumber Sequence format.

NV Axence nVision 13				×
Adding autonur	mbering sequence			
* Name:				
* Format:				
	The format must include the variables: %xN - Ordinal number (where x is number of digits) For example %3N gives a three-digit ordinal number For example: Doc/%Y/%M/%D/%4N - will give the autonumber resu	The schema can also contain vo %D - current day (with leading z %M - current month (with leadin %R - current month (roman num %Y - current year and any text It: Doc/2021/12/09/0123 where	ero or %d - without leadin 1g zero or %m - without le 1erals)	ading zero)
* Reset time:	never (default) 👻			
* Next ordinal number:	1			
Next sequence value:	The preview will be created after you enter the forma	t for the sequence		
			Add sequence	Cancel

The auto-number sequence format consists of several elements. The format must contain the %xN variable - where x is the number of digits, e.g. if we enter %5N, the sequence number will consist of five digits. The format may also contain other optional elements:

- %D current day, with a zero in front, %d without a zero in front
- %M current month, with a zero in front, %m without a zero in front
- %R current month (written in Roman characters)
- %Y current year
- any text, e.g. a hint as to what type of an asset is autonumbered

An example of an autonumbering sequence: **Printer %4N %D %M %Y**, that will translate into **Printer 0241 05 07 2022**.

Additionally, you can set whether the sequence is to be reset, so its value will be reduced to 1. Available reset options:

- never (default)
- at the beginning of the month
- at the beginning of the year

The auto-numbering sequence can be edited (after selecting a specific sequence and clicking on the **Properties** button), deleted (after selecting and clicking on the **Delete** button, or copied (after selecting and clicking on the **Copy** button).

There is no autonumbering sequence limit in nVision, therefore, depending on the needs, size of the organization, types of supported assets, licenses or documents, the administrator can create an appropriate number of unique auto-numbering sequences.

Assign an autonumbering sequence to an asset type

The procedure for adding an AutoNumber sequence is described above. Having at least 1 autonumbering sequence ready, we can use it in practice, i.e. assign it to a given type of resource. To do this, you must:

1. In the main nVision console window, click on the **Main** tab, and then on **Asset settings**. By default, the **Asset Types** tab is displayed, this is where we assign the autonumbering sequence.

2. If no asset type exists in the system, you must add [202] it first

3. When you have an asset type ready, you need to select it - by clicking on it in the table, and then clicking the **Properties** button (the autonumbering sequence can also be assigned when adding a new resource type).

4. Click on the **Inventory number** field, and then select **Automatically from sequence** from the pullout list.

5. After completing the above step, a previously unavailable field will be displayed below the Inventory number field. Click on them, and then from the list select the sequence that you want to assign to the given type of asset.

6. To confirm the changes made, click the **OK** button.

From now on, the selected autonumbering sequence will apply to the selected asset type. The same autonumbering sequence can be used for many different types of protocol, assets or licenses, but as it can create unnecessary confusion, it is recommended to create separate, unique autonumbering sequences for different types of objects (even if the only difference between the sequences will be on their unique name).

Assign an autonumbering sequence to a protocol template

Autonumbering sequences can be assigned not only to a asset type, but also, inter alia, to also to the individual protocol templates. The procedure is the same as for resources. First, add an auto-numbering sequence and create a protocol template on the system.

To assign an auto-number sequence to a document type you must:

1. In the main nVision console window, click on the Main tab, and then on Asset settings.

2. Click on the Protocol templates tab..

3. Click on the protocol displayed on the list, and then click on the **Properties** button (the autonumbering sequence can also be assigned when adding a new protocol template)

4. Click the **Protocol number** field, and then select **Automatically from sequence** from the drop-down list.

5. After completing the above step, a previously unavailable field will be displayed below the Protocol number field. Click on them, and then from the list select the sequence that you want to assign to the given type of an asset.

6. To confirm the changes made, click the **OK** button.

From now on, the selected autonumbering sequence will apply to the selected asset type. The same autonumbering sequence can be used for many different types of protocol, assets or licenses, but as it can create unnecessary confusion, it is recommended to create separate, unique autonumbering sequences for different types of objects (even if the only difference between the sequences will be on their unique name).

Assign an autonumbering sequence to a license

You can assign an autonumbering sequence to a license in two ways. First of all, it can be done already at the stage of configuring a new license type. For this you should:

1. In the main nVision console window, click on the Main tab and then on Configure license type.

2. Click the **Inventory number** field, and then select **Automatically from sequence** from the pull-out list.

3. After completing the above step, a previously unavailable field will be displayed below the Inventory number field. Click on them, and then from the list select the sequence that you want to assign to the given license type.

4. The next step is to correctly fill in the remaining fields of the form, and then click the **Ok** button.

From now on, the selected autonumbering sequence will apply to the selected asset type. The same autonumbering sequence can be used for many different types of protocol, assets or licenses, but as it can create unnecessary confusion, it is recommended to create separate, unique autonumbering

sequences for different types of objects (even if the only difference between the sequences will be on their unique name).

The auto-numbering sequence can also be assigned to a license type that already exists in the system. To do this::

1. In the main nVision console window, click on the Main tab, and then on Assets.

2. Then find the Software folder and click Licenses.

3. The list on the right will display all the licenses saved in the nVision system. To view the properties of a selected license, double-click it or select the appropriate license and click the **Properties** button.

4. In the license information window, click on the **Inventory number** field, and then select **Automatically from sequence** from the pull-out list.

5. After completing the above step, a previously unavailable field will be displayed below the Inventory number field. Click on them, and then from the list select the sequence that you want to assign to the given license type.

From now on, the selected autonumbering sequence will apply to the selected asset type. The same autonumbering sequence can be used for many different types of protocol, assets or licenses, but as it can create unnecessary confusion, it is recommended to create separate, unique autonumbering sequences for different types of objects (even if the only difference between the sequences will be on their unique name).

8.2.4 Asset creation and modification

Assets in nVision can be created automatically using data from the Agent or manually. The configuration and removal of automatic asset detection is described in the chapter <u>asset autodetection</u>.

Adding new asset

To add a new asset, go to the **Assets tab** accessible from the main program window. To add a new asset, select the **Add** option from the toolbar above the assets table or select **Add** from the context menu. The window for adding a new resource will open:

		– 7 ×
	ten carageries ter enduces ter formations ter formations t	
Devices Users Assets	All assets Department: Any or none - Assets History Audit Events	
Q, Search (Ctrl+F)	🖸 Edd 🗟 Detete 🗹 Eroperties Group by (None) -	
Alexandri Addition Addition	Ante Ante Add asset Add asset Add asset Add asset Add asset Asset type Ante Asset type Asset Asset type Asset	Waterstep to ADD of 1 ADD of 2 ADD of 1 ADD of 1
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The next steps include completing the individual fields that specify assets properties. The available fields are explained in the asset properties the chapter.

Asset modification

To change the asset properties, go to the **Assets** tab available from the main program window. Find the asset on the list, go to the properties window, select appropriate button or double-clicking on the selected item. The asset editing window will open:

/ Asse	et				×
ł	Kość 1				
	GENERAL	BASIC INFORMATION			
	DOCUMENTS	* Name:	Kość 1		
		Asset type:	Memory Configur	e	
*	ACTIONS	Belongs to:	WIN10, 192.168.69.206		
อ	HISTORY	Person responsible:	Transfe	r	
		Status:	New		
<u> (</u>	ALERTS	Serial number:	21esczxc		
		Inventory number:	3522963 <u>G</u> enerat	P	
1	WHO CAN USE	Bar code:		-	
		ADDITIONAL FIELDS			
			Filter Q		
		Name	▲ Value		
		Specific asset type fields			
		Bits			
		Capacity	4 GB		
		Częstotliwość	4333		
		Osoba odpowiedzialna (prze			
		Slot	None		
		Speed Type	Unknown		
			UNKIDWI		
		Global fields			
		CustomGlobal			
				Close	ł

Available modifications and explanations are described in the asset properties the chapter.

Asset removal

To remove a resource, go to the **Assets** tab available from the main program window. Find the asset in the list, click the **Delete** button or select the option from the context menu.

8.2.5 Generating protocol

In the nVision 13.5 version, the functionality of the protocol template generator was introduced, replacing the existing solution, which allows for the generation of asset transfer protocols. The functionality of generating templates allows you to create many different templates depending on the requirements and needs of a given organization.

Protocol templates can be copied, deleted (all protocol templates cannot be deleted - nVision must have at least 1 protocol template) and edited. Every Administrator with access to the Inventory module in nVision has access to both the protocol generator and the list of created templates.

To go to the template generator tab, in the main console window, click the **Asset settings** button (located on the main toolbar), and then select the **Protocol templates** tab.

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			Linux	POSUERE					Microsoft Corporation	HTTP SSH2 SSH PING	0	1				07.03.2019 12:5		0	236	100 %	Today, 14
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		_	IP Phone			192.168.1.178		002354308E92	ASUSTER COMPUTER I.	PING HTTP	U	2	2	1	15	Never Today, 16:01:41		0	0	0%	23.11.201
			Printer					- 2CFF655C29CA	Oki Electric Industry C.	PING SNMP HTTP HTTPS		1	48	1	161	Today, 16:01:48		235	1	0%	03.05.202
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Protocol cofiguration

PROTOCOL TEMPLATES
 IIST OF PROTOCOLS
 AUTONUMBERING

The general settings for all handover protocols are described in the <u>Protocol settings</u> [215] chapter. In the Protocol templates tab, the Administrator can modify many parameters. The protocol template consists of three sections - Basic Info, People Names, Protocol Columns. **Basic info**

- Protocol title * (it is also the name of the template. The title of the protocol template must be unique, i.e. nVision cannot create two protocol templates with the same name. The protocol is displayed as centered, bold text),
- Protocol number * (Two available options: assigned manually / automatically from sequence. Manual broadcasting means that the Administrator will have to fill in the protocol number manually each time. Using the auto-numbering option requires selecting the <u>autonumbering sequence</u> [216]),
- Protocol description, (displayed in front of the table with the protocol columns)
- Final remarks, (displayed after the table with protocol columns)

People names

- Number of people on the protocol * (from 1 to 6)
- Names of individual people * (They will be displayed at the bottom of the generated protocol. In the window for adding a protocol template, only the number of people and their names are selected, when generating a given protocol from the template, it is also necessary to indicate a specific user his name will be displayed under the name of the person in the protocol .)

* - required fields

Protocol columns

Protocol columns (Admin can define up to 10 columns that will be included in the protocol)

Additional fields in the template generator are divided into two types: global and local - depending on the resource, e.g. the processor may require additional and different parameters than the printer. Global fields:

- Value
- Warranty to
- Model
- Bar code type
- Inventory number
- Last mobile scan
- Last mobile save
- Name
- Serial number
- Location
- Person responsible
- Status

The fields added in the window for adding a new protocol template are displayed in the form of a table (column name / field type). You can delete the added fields (**Delete** button) and change their position on the list (**Move up** / **Move down** buttons). There is also an **Add Asset Type** option that adds a column to the log template called **Asset Type**.

After completing the configuration of the protocol template, create it by clicking the **Ok** button. The created protocol template will be displayed in the list of all templates.

By default, nVision includes 6 protocol templates:

- Asset hand-over protocol
- New asset receipt protocol
- Asset disposal protocol
- Asset release protocol
- Asset lease protocol
- Asset return protocol

Axence nVision 13			>
New protocol template			
Basic informations			
* Protocol title:			
* Protocol number:	Entered manually		•
Protocol description:			*
Closing remarks:			*
Names for people who participate in the ac * Number of people in protocol: * Name of 1st person:	2 ‡	otoon (of example, netamer, net	
* Name of 2nd person:			
Protocol columns Add (up to 10) columns that will be include <u>A</u> dd field		Add asset type	
Column name		Field type (not displayed in report	s)
	<no 1<="" data="" th=""><th>to display></th><th></th></no>	to display>	
			OK <u>C</u> ancel

Generating a report

The protocol generation window will be opened after clicking the Generate protocol button visible on the main toolbar:

This window can also be opened when the user responsible for the asset is changed.

There are several fields in the protocol template generation window (different from the protocol template adding window) that must be filled in by the Administrator. The most important of them is the **Protocol template** - click on this field to display a list of all nVision protocol templates. The Administrator should

choose one of them. In the protocol generation window, you can create a new template (by clicking on

오) and edit the existing one (by clicking on 🚄).

In addition, it is necessary to fill in the **Date** field, which displays today's date by default, but the Administrator can change it freely. In the further part of the form there are fields, the names of which will differ depending on the selected template, they should be completed by selecting users who take part, for example, in the transfer of the resource. The last required element of the form is adding a resource / resources (optionally commented).

After configuring all the fields, click the Generate button. The log is generated and exported in .PDF format.

N Axence nVision 13 • × Asset settings ASSET TYPES 🖸 Add 🛗 Delete... 🔍 Open 🕝 Save... Filter Q Protocol title Protocol number People Date Assets ASSET TYPE FOLDERS 10.05.2022 Asset lease protocol 2/5/2022 ASSET STATUSES ASSET DETECTION GLOBAL FIELDS ACTION TEMPLATES DATA SOURCES **DOCUMENT TYPES** TROTOCOL TEMPLATES LIST OF PROTOCOLS Close

All generated reports are displayed in the Protocols tab in Asset Settings.

8.2.6 User information

To view all assets assigned to the selected user, go to the **User Information** window and then go to the **Assets** tab.

In the **Responsible for** tab you can find information about the assets in which the selected user has been designated as the person responsible for the asset:

Account. Millogrammer	Role: ADMINISTRATOR							Status: Waiting for	r data
GENERAL	Assets Document	s History 🛕	Events						
	G Add 🛱 Delete.		Show (Everything)	▪ Group by (None)	•			Filter Q	
	Name		Asset type	Belongs to	Inventory number	Person responsible	Serial number	Status	
SCREENSHOTS	Komputer		Computer	MIKOLAJ-PC, 192.168.69.201	0085933	Mikuz	4783-1719-9041-9283-69	900-3387-88 Us	sed
ASSETS									
RESPONSIBLE FOR									
RESPONSIBLE FOR									
CAN USE									
CAN USE									
CAN USE SOFTWARE EVENTS									
CAN USE SOFTWARE EVENTS DATAGUARD									
CAN USE SOFTWARE EVENTS DATAGUARD & BLOCKADES									
CAN USE SOFTWARE EVENTS DATAGUARD BLOCKADES SETTINGS									
CAN USE SOFTWARE EVENTS DATAGUARD BLOCKADES SETTINGS									

Defining the person responsible for the asset is possible at the time of editing or creating the asset. In the Can use tab you can find information about assets that can be used by selected user:

User: Mikuz MIKUZ Account: MIKU@WIN	10 Role: ADMINISTRATOR			Creat	te announcement 🔻		- □ eer logged on: n/a :: Waiting for data
	• Add relation 🛗 Remove relation	<u>Properties</u> Show (Everything)	- Group by (None)	•		Filter Q	
III ACTIVITY	Name		et type Belongs to	Czas	Inventory number	Serial number	Status
	Kość 1	Me	mory WIN10, 192.168	8.69.206 03:23:23	3522963	21esczxc	Nowy
SCREENSHOTS							
💑 ASSETS							
RESPONSIBLE FOR							
CAN USE							
SOFTWARE							
EVENTS							
DATAGUARD							
A BLOCKADES							
SETTINGS							

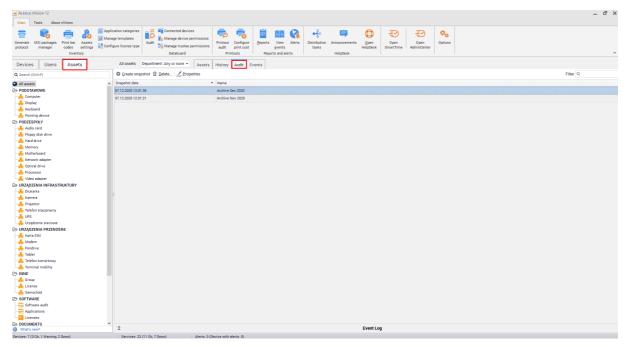
Setting the access to assets for particular users is available during asset edition 1971.

8.2.7 Asset audit

The audit of assets consists in comparing two snapshots, i.e. the archived states of assets. Any two snapshots or the selected snapshot and current state can be compared.

To perform the audit of assets:

1. In the main nVision window, select the **Assets** tab. Then select **All assets** from the list on the left and navigate to the **Audit** tab visible above the table of assets.



- 2. The prerequisite for a snapshot is that the number of events waiting for user acceptance is zero. Otherwise, you will be asked to accept all the events before it is possible to name the snapshot.
- 3. Select the archive (snapshot) to be compared and open its Properties.
- 4. During the audit, the individual types of assets are compared, provided that they were saved in both compared snapshots.
- 5. By double-clicking the chosen snapshot, , select the archives for comparison in the **Compare audit archive** window and use the **Show (state)** and **Audit status** options (described below).

Audit state and status

The **Show (state)** and **Audit status** options limit the number of displayed records and enable quick access to the most important information. The dependencies between states and statuses are presented in the table below:

State	Possible status
Unchanged	AuditedUnaudited

State	Possible status
Added	AuditedUnaudited
Deleted	Unaudited
Changed	AuditedUnaudited

The **Audited/Unaudited** status is closely related to whether a mobile application was used between the two snapshots which are compared in the audit.

Important: if <u>Mobile application</u> is used, all devices (barcodes) should be scanned. Those that have not been scanned will be considered as unaudited and should be treated as the missing ones. The use of mobile application consists in searching for an asset by scanning the barcode or by means of other parameters (e.g. entering a part of the name) and saving.

8.2.8 Printing labels

To print labels for selected assets, use the **Add to bar codes print queue** option. This can be made in one of the following two ways:

- 1. In the specific asset editing window (see the following screenshot).
- 2. In the **Assets** tab displayed in the main application window, by selecting the **Add to bar codes print queue** option from the context menu of the selected asset.

W Axence nVision 12		_ @ ×
Main Tools About nVision		
	lication categories 📫 🛱 Connected divices 👘 🤹 📋 目 🚱 🍫 🤜 😳 <table-cell></table-cell>	
Generate MSI packages Print bar Assets	Audit Printout Configure Beports View Alerts Distribution Announcements Open Open Open Open Options	
		^
Inventory	DataGuard Printouts Reports and alerts HelpDesk	^
Devices Users Assets	All assets Department: Any or none - Assets History Audit Events	
Q Search (Ctrl+F)	O Add 🗊 Detete ∠ Properties Group by (None) -	Filter Q
All assets	Asset type Belongs to Inventory num Status Name Serial number	
D PODSTAWOWE	Display WinTest, 192.168.69.206 (5591927 Nowy Generic PnP	
- 💑 Computer	Computer WinTest, 192.168.89.206 (427056) 🗘 Add Ins 778-1719-90.	
- 💑 Display		
- 💑 Keyboard	<u>Relete</u> Del	
- 💑 Pointing device	Migrate	
PODZESPOLY	Transfer.	
- 🚣 Audio card		
- 💑 Floppy disk drive	III Add to bar codes print queue	
- 💑 Hard drive	Properties Enter	
- 💑 Memory		
- 🔏 Motherboard	Device info	
- An Network adapter	Ctrl+P	
- 💑 Optical drive		
- 🐣 Processor		
- 🚣 Video adapter		
URZADZENIA INFRASTRUKTURY		
- A Drukarka		
- 💑 Kamera		
- September 2010		
- Station Stacjonarny		
- & UPS		
🔥 Urządzenie sieciowe		
URZĄDZENIA PRZENOŚNE		
- Karta SIM		
- A Modem		
- A Pendrive		
- A Tablet		
- A Telefon komórkowy		
Terminal mobility		
> INNE		
- 💑 Group - 💑 License		
- 🏀 Samochód		
▷ SOFTWARE		
- op Software audit		
- Applications		
Licenses	A No connection from external Axence nVision Agents. Check if port 4436 is open and if Agent installation path is added to exclusions list in antimalware software.	×
DOCUMENTS V	â Event Log	
	· ·	
Devices: 7 (3 Ok. 1 Warning, 2 Down)	Services: 22 (11 Ok. 7 Down) Alerts: 0 (Device with alerts: 0)	

Printing

After all assets whose labels are to be printed have been added to the queue, perform the following procedure:

- 1. In the main nVision window, select the **Print barcodes** option.
- 2. All the assets for which the above-mentioned **Add to...** option was used are displayed in the **Print barcodes** window.

Main Tools About rWision							
			Q +				
Consulto MCI apphages Digit has Append							
protocol manager codes settings							
Inventory							
All assets							
PODSTAWOWE Computer	w Print bar codes					_ >	¢
	D 1 44		-		~		
	Print bar co	manage bar codes print que		III.	1		
	for assets.	manage par copes print que	Preview and pri	nt Generate B	lemove all		
D PODZESPOŁY	Name	Asset type	Person responsible		Inventory number		
	Generic PnP Monitor	Display			5591927		
	WinTest	Computer			4270568		
	www.est	Computer			4210000		
🗁 URZĄDZENIA INFRASTRUKTURY							
- 🂑 Urządzenie śleciowe ট⇒ URZADZENIA PRZENOŚNE							
Karta SIM							
						Close	
🗁 INNE							
E> SOFTWARE							
DOCUMENTS Vitation of the second seco					Event Log		
g marshere							

- In order to remove a specific asset from the list, select the **Remove** option in the context menu. To clear the list, use the **Remove all** option. Note: the above-mentioned options do not remove assets, but only items to be printed.
- 4. If there is still at least one selected asset without an assigned inventory number, the button is active to automatically fill in the missing data.
- 5. To go to the next step, press the $\stackrel{\frown}{=}$ button.
- 6. The print preview screen reflects the settings of the selected printer, in particular paper size and page orientation in 1:1 scale. The block, whose parameters are being configured, is a single rectangle with a barcode and other information to be printed on the label. The number of blocks per page results directly from set margins and dimensions. Barcodes are printed in a manner allowing the fixed size of a single point (bar) in millimeters, regardless of the print resolution (accuracy).

The following screenshot presents a typical print preview for A4 page. In the case of label printers, the preview will show only one block and the number of pages will be equal to the number of labels to be printed.

7. Select **Print / Print all** to print all pages. When finished, the **Print preview** and the **Print barcodes** windows will be closed automatically and the list of assets for printing will be cleared.

8.2.9 Mobile application

Preparing nVision console for access from mobile applications

User account

The system administrator's login data are required to authorize the mobile application. The relevant account should be created in the **Users** window by selecting the **Add** option or use an account that was previously synchronized with Active Directory.

NV User	: Miku@WIN10							_ = ×
	MIKU@WIN10 Account: MIKU@WIN10 Ro	e: ADMINISTRATOR				Remote access	Viser logged WinTest, 192.1 Status: Work	68.69
2 _{id}	GENERAL	USER INFO AND STATU	8	ROLE AND PERMIS	SIONS Change permissions	ACTIVITY PREVIEW		
th	ACTIVITY	User name:	Miku@WIN10	Ro	e: Administrator +	Application	n: nVision.exe Obsolete services	
Ø	SCREENSHOTS	Full name: E-mail address:		Job tit SmartTir]	Obsolete services]
&	ASSETS	Account enabled:	~		n: HelpDesk Staff			
	SOFTWARE	Password:	Change	Ch	at: Full access		Loading data	
	EVENTS		28.09.2020 14:37:41 07.12.2020 12:05:22	WebAcce	s: Yes]
U	DATAGUARD	Phones:						
A	BLOCKADES							
٥	SETTINGS							
28	PERMISSIONS	Accounts and groups	nVision	Polonas to grou	is (1) Is manager of (0)			
		Supervisor:		Poziom 2a	s (i) i is manager or (o)			_
		Direct reports:		Poziom za				
		Linked accounts:						
		Miku@WIN10						

Working with the mobile application

Download

The application is available for download under the name "Assistant Inventory" from the Google Play store - <u>https://play.google.com/store/apps</u>

or directly from Axence:

https://axence.net/downloads/app-android-assistant-inventory

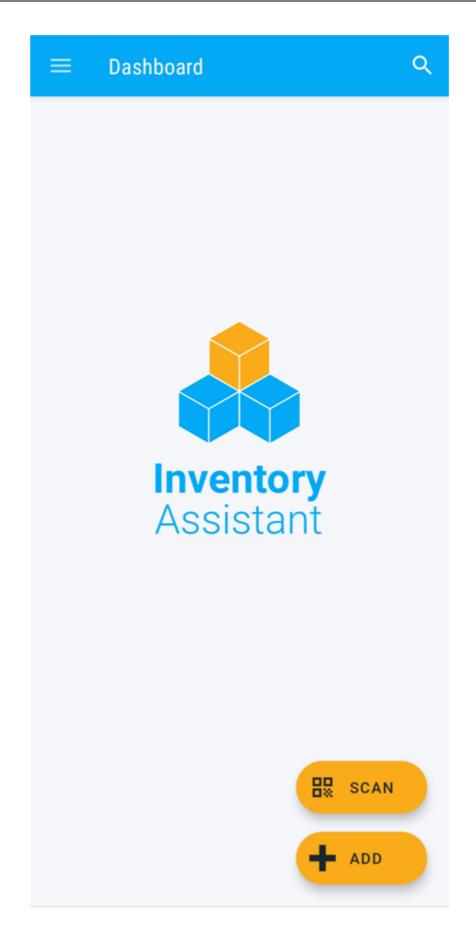
Logging in

On the login screen, enter the address of the computer on which the nVision console works. When working outside the corporate Wi-Fi network, it may be necessary to properly redirect the port on the access router. By selecting the **Remember me** option, the entered password will be remembered and the next time the application is started, the data in the login form will be automatically filled.

To log in to the application, enter the correct data for the account existing in nVision in the **Login** and **Password** fields, and then click the **Log In** button. Please note that only users with the **Administrator** or **Super Administrator** role in the nVision console have access to the mobile application. A regular user cannot log in to the Inventory Assistant application.

Caution: Inventory Assistant application uses the same port as the nVision console, i.e. TCP 4336.

	Inventory Assistant	
	nVision server address	
	Login Enter login or e-mail address	
	Password	Ø
	Remember me	
	LOG IN	
Main screen option	s	



1. Add an asset – option to create a new asset. First, enter the type of fixed asset, and then the rest of the data in the asset edit window. The Add asset button confirms the changes made. The resource added in this way will be included in nVision.

← Add asset	
Name	
Type Computer	-
Inventory number	
Belongs to	•
Person responsible	•
Status	~
Serial number	
Specific asset type fields	
Info 1	

- 2. **Scan** scanning the barcode. If there is an asset with an assigned code in the database, it will be displayed. Otherwise, the application suggests creating a new asset with the entered code as **Inventory number**.
- 3. Search asset searching assets by name, type and (optionally) department. The search starts after entering 1 character into the search field. If at least one matching resource is found, a selection list will be displayed. Selecting a record from the list opens the resource in edit mode. Pressing the Back button will take you back to the list of found results. In addition, the search engine remembers recently searched resources, which greatly facilitates the work.

÷	<u>dell</u> ×
٩	Dell P2717H (Analog) 8901404
٩	Dell P2717H (HDMI) 7094811
٩	Dell P2719H (DP) 1380329
٩	Dell P2719H (HDMI) 2653238
٩	Dell P2721Q (HDMI 2_0) 2496948
٩	DELLE5470-LAP AX-2020\PC\2151467
٩	HV01 (DELL PHISYCAL) AX-2020\PC\5136833
٩	HV01 Dell R240 AX-2021\SRV\2895030
Þ	dell Dell sell 🌵
q	$w^{2} e^{3} r^{4} t^{5} y^{6} u^{7} i^{8} o^{9} p^{0}$
а	nsdfghjkl
仑	z x c v b n m 🗵
?123	8 [©] , ⊕ EN·PL . <

Other options in Assistant Inventory app

1. Edit an asset - Inventory Assistant allows you to edit information about a given resource.

Information edited in this way is updated in the nVision console. To edit an asset, first find it using the search engine.

Name Dell P2717H (HDMI) Type Display Inventory number 7094811 X Belongs to Management: FUSCE-SEMPER, 192.168.20.61 Y Person responsible Status New Status New Status New Status New Status New	← Dell P2717H (HDMI)	ē
Type Display Inventory number 7094811 X Belongs to Management: FUSCE-SEMPER, 192.168.20.6: Yerson responsible Status New Status New Serial number 4P9HC88BBKBL		
Display Displa		
7094811 × Belongs to Management: FUSCE-SEMPER, 192.168.20.6: × Person responsible • Status New • Status New • Serial number 4P9HC88BBKBL • Specific asset type fields Manufacturer •		
7094811 × Belongs to Management: FUSCE-SEMPER, 192.168.20.6: × Person responsible • Status New • Status New • Serial number 4P9HC88BBKBL • Specific asset type fields Manufacturer •		
Management: FUSCE-SEMPER, 192.168.20.6: Person responsible Status New Serial number 4P9HC88BBKBL Specific asset type fields Manufacturer		\times
Management: FUSCE-SEMPER, 192.168.20.6: Person responsible Status New Serial number 4P9HC88BBKBL Specific asset type fields Manufacturer		
Status New Serial number 4P9HC88BBKBL Specific asset type fields Manufacturer		×
Status New Serial number 4P9HC88BBKBL Specific asset type fields Manufacturer		
New Serial number 4P9HC88BBKBL Specific asset type fields Manufacturer	Person responsible	•
Serial number 4P9HC88BBKBL Specific asset type fields Manufacturer		•
4P9HC88BBKBL Specific asset type fields Manufacturer	New	
Manufacturer		
Manufacturer	Specific asset type fields	
	Doll Inc	

2. Add an activity - This option allows you to adding activities, i.e. updating information that does not relate to the resource, but relates to it directly. To display the tab for adding activities, click on the icon displayed in the tab of a specific resource.

← Dell P2717H (HDMI)	ē
Name Dell P2717H (HDMI)	
Type Display	
Inventory number 7094811	×
Belongs to Management: FUSCE-SEMPER, 192.168.20.6.	×
Person responsible	•
Status New	•
Serial number 4P9HC88BBKBL	
Specific asset type fields	
Manufacturer Doll Inc	3

When adding an activity, first of all, select the activity by clicking on the **Activity name** field and selecting the appropriate activity template from the pull-down list. The list of activities is a closed directory - new activity templates can be added in the nVision console: Asset settings> Activity templates> Add template). The remaining fields to be completed are:

- Cost
- Exeecution hours
- Execution mins
- Change status to (there is an information about current asset's status above it)
- Description

← Add activity	
Activity name	-
Cost	
Execution hours	
Execution mins	
Current asset status	
Change status to	•
Description	

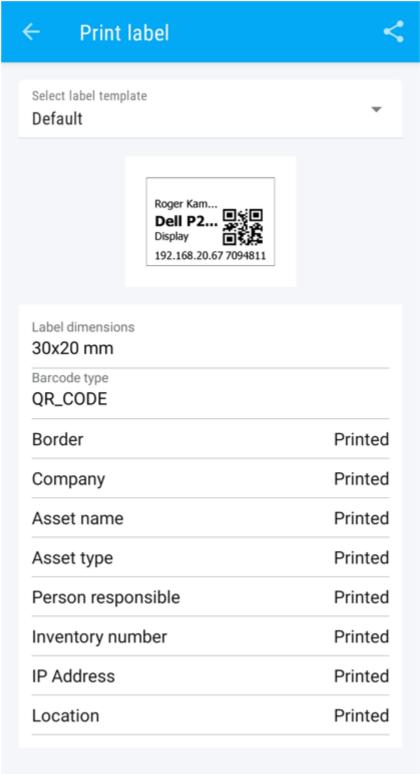
Copyright ©2023 Axence sp. z o. o. sp. j. All rights reserved.

3. **Print label** - The nVision mobile application, apart from barcode scanning, also enables label printing. To print a label, the device on which the Inventory Assistant is installed should be connected to the printer. To display the label printing tab, click the icon displayed in the tab of a specific resource.

← Dell P2717H (HDMI)	ē
Name Dell P2717H (HDMI)	1
Type Display	
Inventory number 7094811	×
Belongs to Management: FUSCE-SEMPLR, 192.168.20.6.	×
Person responsible	Ŧ
Status New	•
Serial number 4P9HC88BBKBL	
Specific asset type fields	
Manufacturer Doll Inc	3

From the label printing tab, you can select a label template, share the label and select the printer you want to use. After selecting the appropriate label template, its visualization and asset parameters will

be displayed below, along with information about which of them will be printed. After completing the configuration, in order to print the label, click the **PRINT** button.





8.3 Hardware

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8.3.1 Introduction

Equipment inventory allows you to control the number and type of devices in monitored networks. nVision provides detailed information about all components of the device and all devices connected to it. You need to install the nVision Agent on every computer to be monitored.

DESKTOP-INDQNPITI, 192.10	66.0.106				-
DESKTOP-NOQNHI IP. 192.168.0.108 DNS:			Axence nVision Agent Connected Berno	te access + HTTP •	
ENERAL	General Details Connected devices Access log History				
RFORMANCE	S Computer	Operating system			
ARDWARE	Model: Virtual Machine Architecture: x64-based PC	Name: Microsoft Windows 10 Pro Upgrade: 1909			
DFTWARE	S/N: 7821-0103-6955-0870-3296-3703-92	Version: 10.0.18363.592 S/N: 00330-80000-00000-AA932			
SETS	Motherboard: Microsoft Corporation Product: Virtual Machine	S Display Monitor: Generic PnP Monitor: Generic Non-PnP Monitor			
ES	Motherboard S/N: 7821-0103-5956-0870-3296-3703-92 BIOS release date: 30.01.2019	Monitor S/N: Count: 2			
MP	Processor: AMD Ryzen 5 2600 Six-Core Processor Physical processor: 1	Video controller: Microsoft Hyper-V Video, Microsoft Remote Display Resolution: 1024 x 768			
DOWS	Core per instance: 1 Speed: 3,9 GHz Processor ID: 00000000000000	Hard drive: Microsoft Virtual Disk			
NTS	Hyper-Threading:	Hard drive: Microsoft Virtual Dak Hard drive S/N: Total space on hard drives: 50 GB			
	Network	Total free space: 26 GB			
	Network adapter: Microsoft Hyper-V Network Adapter	Number of hard drives: 1 Floppy:			
	Get Memory	DVD: 🗹			
	Total memory: 4 GB Available memory: 2,95 GB	😂 Printers			
	Nound Sound	Printers: Microsoft XPS Document Writer, Microsoft Print to PDF, Fax			
	Sound device: none				
				Aktywuj system Windo Przejdź do ustawień, aby akty	

Scanning hardware information function is always **enabled**. In the device information window, after navigating to the **Hardware** tab, you can view the current hardware configuration of the device Inventory of hardware and software can also be performed without installing Agents.

8.3.2 Monitored data

The collected device data can be viewed in the **Device Information** window after going to the **Hardware** tab. Due to the large amount of information collected, data has been divided into three tabs: **General**, **Details and History.** Fields **Connected devices** and **Access log** are a part of Data Guard module.

DESKTOP-NOQNI			Connected 0	Remote access * HTTP ●	WARNING
GENERAL	General Details Connected devices Access log History				
PERFORMANCE	ei Computer	🎸 Operating system			
HARDWARE	Model: Virtual Machine Architecture: x64-based PC 5//k: 7821-0103-6955-0870-3296-3703-92	Name: Microsoft Windows 10 Pro Upprade: 1909			
SOFTWARE	S/N: 1821-0103-998-0870-3296-3703-92	Version: 10.0.18363.592 S/N: 00330-80000-00000-AA932			
ASSETS	Motherboard: Microsoft Corporation	👼 Display			
FILES	Product: Virtual Machine Motherboard S/N: 7821-0103-9965-0870-3296-3703-92 BIOS release date: 30.01.2019	Monitor: Generic PnP Monitor, Generic Non-PnP Monitor Monitor S/N: Count: 2			
SNMP	Processor: AMD Ryzen 5 2600 Six-Core Processor Physical processor: 1	Video controller: Microsoft Hyper-V Video, Microsoft Remote Display Resolution: 1024 x 768			
WINDOWS	Core per instance: 1 Speed: 3,9 GHz	🔚 Drives			
EVENTS	Processor ID: 00000000000000 Hyper-Threading:	Hard drive: Microsoft Virtual Diak Hard drive S/N:			
	Network	Total space on hard drives: 50 GB Total free space: 26 GB			
	Network adapter: Microsoft Hyper-V Network Adapter	Number of hard drives: 1 Floppy:			
	Ger Memory	DVD: 🕑			
	Total memory: 4 GB Available memory: 2,95 GB	Printers			
	No Sound	Printers: Microsoft XPS Document Writer, Microsoft Print to PDF, Fax			
	Sound device: none				
				Aktywuj system Windows	

General view

The general view shows the most important information about the equipment associated with the device. In particular - selected information about the computer, processor, memory, operating system, display and more.

It is not possible to manually amend the missing data.

Detailed view

To access the information about the hardware on the monitored computer, go to the **Details** tab. You can view data divided into categories:

- Operating system
- Computer
- CPU & Motherboard
- BIOS
- Proccessors
- Memory
- Floppy drives
- Hard drives
- Optical drives
- Logical drives
- Monitors
- Video controllers
- Input devices
- Sound devices
- Network devices
- Printers
- Ports

History

The **History** tab gives access to a list of all hardware modifications made on the selected device:

DESKTOP-NOQN	HII IS: DESKTOP-NOQNHII				Connected @	Remote access + HTTP •	WARNING Last response: 18.03.2020 13:2
GENERAL	General Details	Connected devices Access log	History	1			
PERFORMANCE	←→ @ ☆	î 🛅 🏥 marzec 2020 -	Show: De	tails	•		Filter Q
HARDWARE		tion Edit annotation Remove an	notation				
		 Type 			le na		
SOFTWARE	Date * 26.03.2020 11:17:45	Type Type Hardware - Input device	Y Ope		Description (Input devices) Name=Rozszerzona (101 klawiszy lub 102 klawisze)		
	26.03.2020 11:17:44	Hardware - Video controller		Add	(Video controllers) Name-Microsoft Remote Display Adapter		
ASSETS	26.03.2020 11:17:44	Hardware - Monitor	0	Add	[Monitors] Monitor type=Genetic Non-PnP Monitor		
	25.03.2020 16:15:11	Hardware - Input device		Remove	[Input devices] Name=Rozszerzona (101 klawiszy lub 102 klawisze)		
FILES	25.03.2020 16:15:11	Hardware - Video controller	_	Bemove	[Video controllers] Name=Microsoft Remote Display Adapter		
SNMP	25.03.2020 16:15:11	Hardware - Monitor	1	Remove	[Monitors] Monitor type=Generic Non-PnP Monitor		
Jun	25.03.2020 14:14:11	Other		Change	System information change in task scheduler		
WINDOWS	25.03.2020 10:16:04	Other		Change	Agent 2.0.4.28748 has connected from IP address 192.168.0.108		
	24.03.2020 14:20:01	Other		Change	Agent 2.0.4.28748 has connected from IP address 192.168.0.108		
EVENTS	24.03.2020 14:20:01	Hardware - Network device		Change	Computer's DNS name on the interface 192.168.0.108 has been changed.		

The history of all modified devices with installed Agent is described in the History [251] chapter.

8.3.3 Hardware audit

To go to the **Hardware** inventory audit, go to the Devices tab available from the main program window, and then select the **Hardware** tab above the list of devices:

Main Tools About nVision							- 8 ×
🖀 📢 🖶 👘 🔥 🛱 Appli	figure license type Audit 🔀 Manag	ted devices e device permissions e trustee permissions sGuard	t gvents tasks	noements Open HelpDesk	Options		^
Devices Users Assets	All devices (Atlas) List (236	i) Agents (2) Hardware Histor	,				
Q Search (Ctrl+F)	View: Podstawowy -		•			Filter Q	
All devices (Atlas) NETWORKS							
	Device	Operating system Name * Service Paci	Proces		Merr	Hard drives	Monitors
CUSTOM MAPS	DESKTOP-NOQNHI1, 192.168.0.108		AMD Ryzen 5 2600 Six-Core Processor	1	1 3,9 GHz 4 GB	 50 GB 26 GB	47% 1024 x 768
> DEPARTMENTS	WIN10, 192.168.69.206	Microsoft Windows 10 Pro 1903	AMD A10-7890K Radeon R7, 12 Compute Cores 4C+8G	i		 29 GB 78 GB	39%, 1024 x 768
 ↓ □ Sala operacyjna ↓ □ Szpital ↓ □ Izolatka ▷ SMARTMAPS 							
22 SMATTADPS → Φ ₂ at d → 11 12 Δ 1 → Φ ₂ for m 1 → Φ ₃ firston → Φ ₃ Firston → Φ ₃ Firston → Φ ₄ Testone	Ĩ						

Here you can view all hardware data gathered by Agents installed on monitored computers and hardware scans that have been imported into the program. For ease of use, the option of grouping data using views is enabled. You can use one of the existing views (e.g. All columns, Basic, Multimedia) or create your own.

Creating custom view

To create your own view, select the columns that you want to add and follow with the steps as below:

- 1. Select the All columns view from the list of available views.
- 2. Click on one of the buttons * located in the upper left corner of the table. The upper one contains the list of column groups (listed in the Monitorowane dane 252 chapter), and the lower one lists all columns that can be displayed. Select the columns you want to display.
- 3. To save the created view, click the **Save current view as** button and enter a unique view name. From now on you can select the created view from the list.

8.3.4 History

The **History** tab allows to view changes in hardware and software in a selected period of time for all monitored devices belonging to a given Atlas.

To view the history of hardware changes, go to **Devices** tab available from the main program window, then select the **History** tab above the list of devices:

Axence nVision 11							– & ×
Main Tools About nVision							
👕 🧠 🔚 🚱 🕁 Mar	lication categories hage templates	ected devices ige device permissions	👼 🔹 📋			+÷ 📮 🗘 🔁 🍬	
		ge trustee permissions	Printout Configure Beports audit print cost	View gvents	Alerts	Distribution Announcements <u>Open</u> Open Options tasks HelpDesk SmartTime	
Inventory	Da	itaGuard	Printouts Repo	rts and al	erts	HelpDesk	^
Devices Users Assets	All devices (Atlas) List (23		Hardware History				
Q, Search (Ctrl+F)	←→ ◎ ☆ ☆ ☆	a marzec 2020 * Show	v: Details 🔹				Filter Q,
All devices (Atlas) NETWORKS	Drag a column header here to group		* Type	9 Oper		Description	
-							
CUSTOM MAPS	WIN10, 192.168.69.206	10.03.2020 10:15:30	Other	4	Change	Agent 2.0.4.28692 połączył sie z adresu IP 192.168.69.206 Agent 2.0.4.28683 połączył sie z adresu IP 192.168.69.206	
P> DEPARTMENTS	WIN10, 192.168.69.206	10.03.2020 10:14:42	Other	4	Change		
V 🗐 Oddział 1	WIN10, 192.168.69.206	09.03.2020 08:56:39	Other	4	Change	Zmiana w informacjach systemowych w harmonogramie zadań Agent 2.0.4.28683 połączył sie z adresu IP 192.168.69.206	
- 💭 Izolatka	WIN10, 192.168.69.206	09.03.2020 08:56:32		4	Change	Agent 2.0.4.28683 połączył sie z adresu IP 192.168.69.206 Agent 2.0.4.28678 połączył sie z adresu IP 192.168.69.206	
Sala operacyjna	WIN10, 192.168.69.206	09.03.2020 08.55:44	Other	4	Change	Zmiana w informacjach systemowych w harmonogramie zadań	
V - Szpital	WIN10, 192.168.69.206 WIN10, 192.168.69.206	09.03.2020 08:34:56	1 Other	4	Change	Agent 2.0.4.28678 połaczył sie z adresu IP 192.168.69.206	
Lording .	WIN10, 192.168.69.206 WIN10, 192.168.69.206	09.03.2020 08:33:01	Hardware - Input device	~	Add	[Urządzenia wejścia] Name=Rozszerzona (101 klawiszy lub 102 klawisze)	
▷ SMARTMAPS	WIN10, 192.168.69.206 WIN10, 192.168.69.206	09.03.2020 08:33:01	Hardware - Input device	0	Add	[Karty graficzne] Name=Microsoft Remote Display Adapter	
- 🗛 asd 👝 4 🧰 1 📻 192 🛕 1	WIN10, 192.168.69.206 WIN10, 192.168.69.206	09.03.2020 08:33:00	Hardware - Video controller	0	Add	[Monitory] Manitar type=Generic Non-PnP Monitor	
	WINTO, 192.100.09.200	dasd	S Hardware - Monitor	•	Add	Including the operation of the second second	
-do firefox -do Firefox	WIN10, 192, 168, 69, 206	06.03.2020 17:34:42	(*) Hardware - Input device	ŝ	Bemove	[Urządzenia wejścia] Name-Rozszerzona (101 klawiszy lub 102 klawisze)	
- 4 Mapa1 - 10	WIN10, 192, 168, 69, 206	06.03.2020 17:34:42	Hardware - Video controller		Remove	[Karty graficzne] Name=Microsoft Remote Display Adapter	
dg serw 👝 10	WIN10, 192.168.69.206	06.03.2020 17:34:42	🛃 Hardware - Monitor		Remove	[Monitory] Monitor type=Generic Non-PnP Monitor	
- to test - 4	WIN10, 192.168.69.206	06.03.2020 12:34:08	C Other	1	Change	Agent 2.0.4.28678 połączył sie z adresu IP 192.168.69.206	
- do Testowa	WIN10, 192.168.69.206	06.03.2020 12:33:26	Other	1	Change	Agent 2.0.4.28667 połączył sie z adresu IP 192.168.69.206	
	WIN10, 192.168.69.206	05.03.2020 10:25:13	C Other	1	Change	Agent 2.0.4.28667 połączył sie z adresu IP 192.168.69.206	
	WIN10, 192.168.69.206	05.03.2020 10.23:27	Other	1	Change	Agent 2.0.4.28655 połączył sie z adresu IP 192.168.69.206	
	WIN10, 192.168.69.206	04.03.2020 09:58:02	Other	1	Change	Agent 2.0.4.28655 połączył sie z adresu IP 192.168.69.206	
	WIN10, 192.168.69.206	04.03.2020 09:57:20	C Other	1	Change	Agent 2.0.4.28646 połączył sie z adresu IP 192.168.69.206	
	WIN10, 192.168.69.206	03.03.2020 09:54:19	🖸 Other	1	Change	Agent 2.0.4.28646 połączył sie z adresu IP 192.168.69.206	
	WIN10, 192.168.69.206	03.03.2020 09:53:33	C Other	1	Change	Agent 2.0.4.28624 połączył sie z adresu IP 192.168.69.206	
	WIN10, 192.168.69.206	02.03.2020 09.36:37	C Other	1	Change	Zmiana w informacjach systemowych w harmonogramie zadań	
	WIN10, 192.168.69.206	02.03.2020 08:38:40	🗋 Other	1	Change	Zmiana w informacjach systemowych w harmonogramie zadań	
	WIN10, 192.168.69.206	02.03.2020 08:38:34	C Other	1	Change	Agent 2.0.4.28624 połączył sie z adresu IP 192.168.69.206	
	WIN10, 192.168.69.206	02.03.2020 08:36:43	🖔 Hardware - Input device	0	Add	[Urządzenia wejścia] Name=Rozszerzona (101 klawiszy lub 102 klawisze)	
	WIN10, 192.168.69.206	02.03.2020 08:36:43	📾 Hardware - Video controller	۰	Add	[Karty graficzne] Name=Microsoft Remote Display Adapter	
	WIN10, 192.168.69.206	02.03.2020 08:36:43	🛃 Hardware - Monitor	٥	Add	[Monitory] Monitor type=Generic Non-PnP Monitor	
	WIN10, 192.168.69.206	02.03.2020 08:36:43	🎱 Hardware - Optical drive	ŝ	Remove	[Napędy optyczne] Name+Microsoft Virtual DVD-ROM	
	WINTE 101 169 60 106	02.02.2020.08.36.49	Automatical drive	^		Nanady ontwornel Namas Microsoft Virtual DVD-ROM	Przejdź do ustawień, aby aktywować system Windows.
What's new?	\$					Event Log	
Devices: 236 (4 Ok, 1 Warning, 192 Down)	Services: 558 (6 Ok, 546 Down)	Alerts: 1 (De	evice with alerts: 1)				

For convenient history view, you can group information relative to one of the columns by dragging its header to the blue field above the list. You can also add notes (after clicking the **Add own annotation** button) and comments to selected entries (right mouse button on the selected entry / **Add comment**).

W Axence nVision 11							_ 8 ×
Main Tools About nVision							
Concepte MSI applyance Diret bar Assate	Audit	levice permissions rustee permissions	Printout Configure audit print cost Printouts	orts View gvents Reports and a	Alerts	Image: space of the space o	^
Devices Users Assets	All devices (Atlas) List (236)	Agents (2) Ha	rdware History				
Q Search (Ctrl+F)	⊢→ Q 🗂 🗂 🗑 📾 m	arzec 2020 • Show.	Details •			Filter	Q
All devices (Atlas) NETWORKS							
	Device 9	Date 💌 📍	Туре	[†] Ope	ration	Pescription	٣
CUSTOM MAPS W	IIN10, 192.168.69.206 1		Other		Change	Agent 2.0.4.28692 połączył sie z adresu IP 192.168.69.206	
	IIN10, 192.168.69.206 1	0.03.2020 10:14:42	Other		Change	Agent 2.0.4.28683 połączył sie z adresu IP 192.168.69.206	
DEPARTMENTS Oddziel 1	IIN10, 192.168.69.206 C	9.03.2020 08:56:39	Other		Change	Zmiana w informacjach systemowych w harmonogramie zadań	
V- Joodzian W	IIN10, 192.168.69.206 C		Other		Change	Agent 2.0.4.28683 połączył sie z adresu IP 192.168.69.206	
	IIN10, 192.168.69.206	9.03.2020 08:55:44	Other	1	Change	Agent 2.0.4.28678 połączył sie z adresu IP 192.168.69.206	
	IIN10, 192.168.69.206	9.03.2020 08:34:56	C Other	<u> </u>	Change	Zmiana w informacjach systemowych w harmonogramie zadań	
- 🛃 Izolatka 🛛	IIN10, 192.168.69.206	09.03.2020 08:34:49	Other	1	Change	Agent 2.0.4.28678 połączył sie z adresu IP 192.168.69.206	
P> SMARTMAPS	IIN10, 192.168.69.206 C	09.03.2020 08:33:01	🏷 Hardware - Input device	0	Add	[Urządzenia wejścia] Name+Rozszerzona (101 klawiszy lub 102 klawisze)	
-dg asd -4 - 1 - 192 A 1	IN10, 192.168 Add comment	0 08:33:00	Hardware - Video contro	oller O	Add	[Karty graficzne] Name-Microsoft Remote Display Adapter	
	IIN10, 192.168 Remove commer	nt 0 08:33:00	繴 Hardware - Monitor	0	Add	[Monitory] Monitor type=Generic Non-PnP Monitor	
dg firefox dg Firefox W	Export	0 17:34:42	Hardware - Input device		Remove	lUrzadzenia wejściaj Name-Rozszerzona (101 klawiszy lub 102 klawisze)	
			i Hardware - Video contro	-	Remove		

8.4 System Information

8.4.1 Introduction

System information are collected by the nVision Agent. To gather this data, you must install Agents on all computers that you want to monitor.

To go to the system information window, select the device and go to the **Device Information** window. Then select the **Windows** tab.

Sevice: DESKTOP-N0QNHI1, 192.168.0.10)8			_ = ×	
DESKTOP-NO(IP. 192.168.0.108 DNS: DESK		ence nVision Agent Connected T Remote access	▼ HTTP●	Device status WARNING Last response: 18.03.2020 13:29:07	
GENERAL	System information Windows ser	rvices Windows Event Log Processes Remote	e command execution	Configure credentials	
PERFORMANCE	Operating system	✓ Operating system			
	Startup commands	 Microsoft Windows 10 Pro 			
HARDWARE	Environment	Boot device	\Device\HarddiskVolume2		
	-	Build number	18363		
SOFTWARE	🚪 Local users	BuildType	Multiprocessor Free		
SUFTWARE	Stroups and user	Caption	Microsoft Windows 10 Pro		
	Route table	CodeSet	1250		
ASSETS		CountryCode	48		
	Yetwork shares	CreationClassName	Win32_OperatingSystem		
FILES	S.M.A.R.T.	CSCreationClassName	Win32_ComputerSystem		
	Task Scheduler	CSDVersion			
SNMP		CSName	DESKTOP-N0QNHI1		
SINIT SINIT		CurrentTimeZone	60		
		DataExecutionPrevention_Available	True		
WINDOWS		DataExecutionPrevention_32BitApplications			
		DataExecutionPrevention_Drivers	True		
EVENTS		DataExecutionPrevention_SupportPolicy	2		
		Debug Description	False		
		Distributed	False		
		EncryptionLevel	256		
		ForegroundApplicationBoost	250		
		FreePhysicalMemory	1382556		
		FreeSpaceInPagingFiles	1416296		
		FreeVirtualMemory	1890684		
		InstallDate	24.03.2020 11:28:09		
		LargeSystemCache			
		LastBootUpTime	25.03.2020 09:10:02		
		Local datetime	25.03.2020 13:14:04		
Agent profile	-				

In this section you can find System Information, Windows Services and Windows Event Log tabs. The Processes and Remote Command Execution tabs are associated with the HelpDesk module, while the other belong to Inventory module.

8.4.2 Monitored data

Table shows the system data that can be monitored

Data	Description
💸 Operating system	Detailed information about the operating system, including name, manufacturer, version, serial number and other.
🐝 Startup commands	List of startup commands including name, command, user and location of executed files
Environment	Information about environment variables.
Local users	Data on local users includes the account name, information related to the password (whether it is mandatory or has expired), account status (enabled/disabled) and other.
Sroups and users	Information about user groups with description

Data	Description
Routing table	The computer's routing table.
😴 Network shares	Information about resources, disks and shared folders.
S.M.A.R.T.	Information collected using the S.M.A.R.T system. To change the drive for information display, select it from the menu at the top of the window. To learn more about the S.M.A.R.T. system, see <u>S.M.A.R.T. 255</u> chapter
Task scheduler	Presents information about running Windows applications along with the schedule dates, last launches and the result of the last launch

8.4.3 Windows services

The Inventory module includes a feature that allows you to monitor Windows services. Windows Services tab displays all services associated with the device. By checking the Monitor services box, you can enable the visibility of this list.

This view allows you to get detailed information about individual items in the table.

Windows service tab gives you the option to start, pause, stop or resume the service. Such actions can be performed using the buttons available on the bar above the list or in the context menu of a given service (right click of the mouse).

DESKTOP-NO(DESKTOP-N00NHI1	Axence nVisio	-	Remote acces	S *	HTTP 🖲		vice status ——— ARNING
							Last response	e: 18.03.2020 13:29:07
GENERAL	System information	Windows services W	/indows Event L	og Processes Rem	ote command	(execution		Configure credential
				by Processes Rein	ote command	execution	=::: 0	-
PERFORMANCE	Monitor services	C Poll now					Filter Q	
	Name 🔺	Display name	Status	Description		Log On As	Path	Dependencies
HARDWARE	AarSvc_48811	Agent Activation Runti	Stopped	Runtime for activating	··· Manual		C:\Windows\syste	
	AJRouter	Usługa routera AllJoyn	Stopped	Kieruje wszystkie kom	·· Manual	NT AUTHORITY\L	. C:\Windows\syste	
SOFTWARE	ALG	Usługa bramy warstw	Stopped	Zapewnia obsługę wtyc	Manual	NT AUTHORITY\L	C:\Windows\Syste	
	AppIDSvc	Tożsamość aplikacji	Stopped	Określa i weryfikuje to.	·· Manual	NT Authority\Loc	C:\Windows\syste	AppID,CryptSvc,Rp.
ASSETS	Appinfo	Informacje o aplikacji	Running	Umożliwia uruchamiani	··· Manual	LocalSystem	C:\Windows\syste	ProfSvc,RpcSs
	AppMgmt	Zarządzanie aplikacja	Stopped	Przetwarza żądania ins	Manual	LocalSystem	C:\Windows\syste	
FILES	AppReadiness	Przygotowywanie apli	Stopped	Przygotuj aplikacje do	·· Manual	LocalSystem	C:\Windows\Syste	
	AppVClient	Microsoft App-V Client	Stopped	Manages App-V users a	Disabled	LocalSystem	C:\Windows\syste	AppvStrm,AppvVfs.
SNMP	AppXSvc	AppX Deployment Ser	Stopped	Provides infrastructure	··· Manual	LocalSystem	C:\Windows\syste	RpcSs,StateReposi.
	AssignedAccessMan	Usługa AssignedAcce	Stopped	Usługa AssignedAcces	·· Manual	LocalSystem	C:\Windows\syste	
WINDOWS	AudioEndpointBuilder	Konstruktor punktów k	· Running	Zarządza urządzeniam	Auto	LocalSystem	C:\Windows\Syste	
	Audiosrv	Windows Audio	Running	Zarządza audio w progr	Auto	NT AUTHORITY\L	C:\Windows\Syste	AudioEndpointBuil
EVENTS	autotimesvc	Czas komórkowy	Stopped	Ta usługa ustawia czas	Manual	NT AUTHORITY\L	C:\Windows\syste	RpcSs
	AxDBSrvr	Axence DB Server (Ax		Axence nVision Databa	Manual	NT AUTHORITY\	"C:\Program Files (
	AxDBSrvrA	Axence DB Server (Ax	Running	Axence nVision Agent .	Auto	LocalSystem	"C:\Program Files (
	Axence nVision	Axence nVision	Running	Axence nVision Service	Auto	LocalSystem	"C:\Program Files (AxDBSrvr
		Axence nVision Agent 2		Axence nVision Agent 2		LocalSystem	"C:\Program Files (
				199914				
	Count: 253	Last poll: Today 12:06:	54	Next poll: Today 1	0.11.54	Dall at	atus: Ok	

To force checking the current services status, use the $^{ heta}$ Poll now button .

8.4.4 Windows processes

HelpDesk module allows you to view the system processes with management options. More information is available in the following chapter.

8.4.5 Windows Event Log

The Inventory module allows you to monitor Windows event log.

GENERAL							RNING
GENERAL						Last response: 1	8.03.2020 13:29:07
GENERAL	Syste	em information W	indows services Windows Event	Log Processes Remote com	mand execution	С	onfigure credential
PERFORMANCE	₫ м	onitor Event Log	C Poll now			Confi	gure Remove dat
	← -	• 😱 1 1 3	🖞 🛗 Last hour 👻 Windows	s log file: All 🔹	Type: All	▼ Filter Q	
HARDWARE	Туре	Logfile	Time	Source	Category	Event U	ser
	0	System	26.03.2020 12:06:20	Microsoft-Windows-Distribu	(None)	10028 Z	ARZĄDZANIE NT\S
SOFTWARE	0	System	26.03.2020 12:03:56	Microsoft-Windows-Distribu	(None)	10028 Z	ARZĄDZANIE NT\S
100570	1	System	26.03.2020 12:00:00	EventLog	(None)	6013 n/	a
ASSETS	1	System	26.03.2020 11:59:10	Service Control Manager	(None)	7040 Z	ARZĄDZANIE NT\S
FILES	1	System	26.03.2020 11:57:06	Service Control Manager	(None)	7040 Z	ARZĄDZANIE NT\S
FILES	1	System	26.03.2020 11:57:04	Service Control Manager	(None)	7040 Z	ARZĄDZANIE NT\S
SNMP	0	System	26.03.2020 11:56:53	Microsoft-Windows-Distribu	(None)	10028 Z/	ARZĄDZANIE NT\S
	1	System	26.03.2020 11:55:00	Service Control Manager	(None)	7040 Z	ARZĄDZANIE NT\S
WINDOWS		System	26.03.2020 11:52:08	Microsoft-Windows-Distribu	(None)	10028 Z/	ARZĄDZANIE NT\S
		System	26.03.2020 11:49:45	Microsoft-Windows-Distribu	(None)	10028 Z/	ARZĄDZANIE NT\S
EVENTS		System	26.03.2020 11:45:02	Microsoft-Windows-Distribu	(None)	10028 Z/	ARZĄDZANIE NT\S
	1	System	26.03.2020 11:41:24	Service Control Manager	(None)	7040 Z	ARZĄDZANIE NT\S
	1	System	26.03.2020 11:39:20	Service Control Manager	(None)	7040 Z/	ARZĄDZANIE NT\S
	1	System	26.03.2020 11:39:18	Service Control Manager	(None)	7040 Z	ARZĄDZANIE NT\S
	i	System	26.03.2020 11:37:14	Service Control Manager	(None)	7040 Z/	ARZĄDZANIE NT\S

To run the event log monitoring, go to **Device Information / Windows**, then select **Windows Event Log** tab and choose **Monitor event log** option.

WARNING! Enabling event log synchronization for a large number of devices can significantly load the network and increase the size of the database.

By default, nVision updates the event log every hour. Using the **Configure** option, you can modify both the monitoring interval and specify additional rules. Setting a low monitoring interval may result in high network load. The default Windows Event Log monitoring filter does not collect user login information.

DESKTOP-NO	Axence nVision Agent Connected Remote access HTTP	
	System	
	Windows EventLog monitoring propertis	Configure Remove dat
	← → Monitoring interval: 60 ¢ min. (1)	
	☑ Ignore "Security" log entries in order to reduce database size	▼ Filter Q
	Type Ld Monitor entries matching the rules	Event User
	Match at least one of the following rules: New condition	
	Event ID + Equals + 0 + 🕥	
		6013 n/a
	() šj	
	() sy	
	- 0 sy	
	0 5	
	() s	
	() Sy Ok Cancel	
	Model DCOM nie mógł komunikować się z komputerem 87.98.235.184 za pomocą żadnego ze skonfigurowanych protokol identyfiktatora PID 11flo (C\Program Files (x86)\Axence\nVision\nvWMIProvider.exe) podczas aktywowania identyfika D0C04FB68820).	

To force immediate event log synchronization, click ² Poll now button.

8.4.6 Remote command execution

Remote command execution is a part of the HelpDesk module. See chapter <u>remote cmd</u> [486] for more information.

8.4.7 S.M.A.R.T.

S.M.A.R.T. (ang. Self-Monitoring, Analysis and Reporting Technology) is a system for monitoring and notification of hard disk operation errors to increase the security of stored data. The use of this system allows to anticipate and prevent impending failures (e.g. by monitoring the temperature overheating risks). **S.M.A.R.T**. monitors many parameters of the hard disk by constant access to a device status. Monitoring includes:

- number of start / stop cycles (Start / Stop Count),
- disk temperature (Celcius),
- frequency of errors during reading process (Read Error Rate),
- the number of reallocated sectors (Reallocated Sector Count),
- the number of attempts to start the disk axis (Spin Retry Count).

Error analysis, based on the prediction of disk damage based on constantly monitored parameters (attributes), allows for earlier notice about potential problems.

8.5 Software

256

8.5.1 General information

Software inventory function enables control over applications installed on the computers of monitored users. It allows to control the legality of programs and multimedia files, in line with licenses management. In order to collect information about installed programs, you must install the nVision Agent on each of the computers to be monitored.

In nVision 11.5 an "assets" tab has been added, allowing to display resources, applications, licenses and documents saved in the database. To access it, select the **Main** tab and then select **Assets**:

Generate MSI nackanes Drint har Assets	alication categories anage templates figure license type figure license type DetaGuard	ure <u>R</u> eports View	ts tasks	н	Open jelpDesk 8	Open SmartTime						
Devices Users Assets	All assets Department: Any or none - Assets History Audit											
Q Search (Ctrl+F)	O Add										Filter O	
All assets	Name	Asset type	Belongs to	CustomGlobal	l Czas	Inventory number	Location	Person responsit	le Serial number	Status	Value	Warranty t
> GENERAL	ZELMER	Karta	(Unassigned)			AGH002				W už	yciu	150,00 zł
- 💑 Computer	PHILIPS	Karta	(Unassigned)			AGH001				W už	yciu	120,00 zł 04.01.2020
💑 Display	Remote Desktop Mouse Device	Pointing device	WIN10.192.168.69.206							W už	vciu	0.00 zł
- Keyboard	UPS APC 1000	Keyboard	(Unassigned)	-		SP/ST-1070	WOM Sala A			W uz		0.00 zł
💑 Pointing device	Microsoft Remote Display Adapter	Video adapter	WIN10, 192, 168, 69, 205			01/01/010	TOT OUR A			_	Jeie	0.00 zł
COMPONENTS												
🐣 Audio card	UPS APC 1000	Keyboard	(Unassigned)			SP/ST-1072	WOM Sala A			W u2	yciu	0,00 zł
A Floppy disk drive	Rozszerzona (101 klawiszy lub 102 klawisze)	Keyboard	WIN10, 192.168.69.206									0,00 zł
💑 Hard drive 🐣 Memory	Microsoft Virtual Disk	Hard drive	WIN10, 192.168.69.206							W už	yciu	0,00 zł
A Motherboard	Microsoft Hyper-V Network Adapter	Network adapter	WIN10, 192.168.69.206			NET4207107902				W ut	yciu	0,00 zł
A Network adapter	Rozszerzona (101 klawiszy lub 102 klawisze)	Keyboard	WIN10.192.168.69.206							W uz	veiu	0.00 zł
A Optical drive	Microsoft Virtual DVD-ROM	Optical drive	WIN10.192.168.69.206	0						W už		0.00 zł
A Processor										=		
& Video adapter	HID-compliant mouse		WIN10, 192.168.69.205							W u2		0,00 zł
INFRASTRUCTURE	UPS APC 1000	Keyboard	(Unassigned)			SP/ST1071	WOM Sala A			W už		0,00 zł
🐥 Camera	AMD A10-7890K Radeon R7, 12 Compute Cores 4C+8G	Processor	WIN10, 192.168.69.206							W už	yciu	0,00 zł
🐣 Desk phone	¹ Microsoft Corporation Virtual Machine	Motherboard	WIN10, 192.168.69.206						4783-1719-9041-9283-6900-3387-88	W už	yciu	0,00 zł
🐣 Network device	Generic Non-PnP Monitor	Display	WIN10, 192.168.69.206			6774329						0,00 zł
🐣 Printer	macierz1	NAS	(Unassigned)				Kraków			W uz	veiu	0.00 zł
💑 Projector	Microsoft Hyper-V Video	Video adapter	WIN10, 192, 168, 69, 205	-						W u2		0,00 zł
🐣 ups	DESKTOP-NOONHI1	Computer	DESKTOP-N0QNHI1, 192,168.0.108	0		6740502			7821-0103-5955-0870-3296-3703-92		10.0	0.00 zł
KRYTYCZNE									1021-0103-3930-0010-3290-3103-92	=		
NOWE	Generic PnP Monitor	Display	WIN10, 192.168.69.206			9146256				W už		0,00 zł
OTHER	2 GB (Unknown)	Memory	WIN10, 192.168.69.206							W už	yciu	0,00 zł
🚴 Karta	Kość 1	Memory	WIN10, 192.168.69.206		03:23:23	3522963			21esczxc	Now	1	0,00 zł
http://www.com/com/com/com/com/com/com/com/com/com/	Axence nVision Agent	Software (obsolete)	WIN10, 192.168.69.206							W už	yciu	0,00 zł 18.02.202
A Modem	123test	Testowy	Szpital			OFFLINE2861305	wwa			W už	yciu	222,00 zł
🐣 NAS	2134	Testowy	(Unassigned)			OFFLINE1124942525	Kraków			W už	vciu 21	333.00 zł
A Pendrive	Komputer admin	Network adapter	(Unassigned)			NET4202000564		Administrator		W už	veiu	0.00 zł
SIM card	gwe	Testowy		0		OFFLINE1128006824				=		666.00 zł
Software (obsolete)			(Unassigned)				N BAUN			Wuż		
🐣 Tablet	PANASONIC	Karta	(Unassigned)			AGH003				W už		250,00 zł
💑 Testowy	drukarka1	Printer	(Unassigned)			6539449				W už		0,00 zł
SOFTWARE	123	Computer	(Unassigned)			8423387				W uz	yciu	0,00 zł
Software audit	test1	Testowy	192,168,69,1			OFFLINE1454424	Kraków					500.21

The list of folders with their assigned types, the list of applications and licenses, and the document section divided into categories will be displayed on the left side of the screen. The administrator can create his own folders and document categories. These settings are described in the <u>foldery typów zasobów</u> and <u>typy</u> dokumentów 212 chapters.

This chapter focuses on software. The remaining segments of the **Assets** tab are described in the **Assets** chapter.

Software

The software section consists of three sections:

- Software audit displays list of detected applications, enables audit snapshot
- Applications displays list of applications which installations can be detected by the Agent,
- Licenses allows to view, modify and add licenses.

Each of items shown above is described in the following chapters.

In nVision 11.5, programs and software templates have been combined into one object called the 'application'. This allows more application management more powerful and intuitive. Also, the possibility of various settlements of license usage (e.g. per user) has been introduced. To assign a license to an application, the application must be marked as audited.

8.5.2 Detection and application properties

8.5.2.1 Applications

To display the list of applications, select the **Assets** tab visible in the main program window, and then scroll down for **Applications** in the **Software** section:

Axence nVision 11					-
Main Tools About nVision					
¦₀ ¾, ≅, ■	5 🛅 🎲 📑 .	🖡 📑 🐂 🔤 👘	💁 💊 🖓 🔩	չ 🗃 հել հ	Ny 🦀 🗙
d a Add a Add a Show-duplicate Create a er group device devices fordev			Jninstall Import Propagate new Mana sion Agent inventory scans Atlas address Agent pr		ters for Filters for Manage art maps smart groups *
er group device devices for dev Users and devices	Tools	rver Server Compiler nVision Agent nVi SNMP and Syslog	Agents Agents	SmartTime	Options
A CONTRACTOR OF	A set list lists				
Devices Users Assets	Applications Applications Installation	history			
Search (Ctrl+F)	Add <u>Properties</u>				Filter Q.
All assets	Name	 Category 	Version	Company	Type
BENERAL	7-Zip 19.00 (x64)	Default	19	Igor Pavlov	Application
COMPONENTS	Axence nVision	Licencjonowane	11.0	Axence Inc.	Application
NFRASTRUCTURE	Axence nVision Agent	Licencjonowane	2	Axence	Opplication
IOWE	Axence nVision Agent 2.0.4.28624				S Application
OTHER Brave		Default	77	Brave Software Inc	Application
OFTWARE	Brave	Default	78	Brave Software Inc	Application
o Software audit	Brave	Default	79	Brave Software Inc	Application
Applications Licenses	Brave	Default	80	Brave Software Inc	() Application
OCUMENTS	ESET Endpoint Security	Default	7	ESET, spol. s r.o.	S Application
All	GOG Galaxy	Default		GDG.com	S Application
Agreement	Google Chrome	Default	75	Google LLC	Application
Invoice	Google Chrome	Default	76	Google LLC	Application
License Other	Google Chrome	Default	77	Google LLC	Application
Picture	Google Chrome	Default	78	Google LLC	Application
Proposal	Google Chrome	Default	79	Google LLC	S Application
Warranty	Google Chrome	Default	80	Google LLC	Application
Warunki	Help & Manual 7	Default	7	EC Software	Application
	HelpXplain by EC Software	Default	1	EC Software	Application
	Internet Explorer	Default	11	Microsoft Corporation	Application
	LibreOffice	Default	6	The Document Foundation	Application
	manualApplication	so	5		Application
	Microsoft Edge	Default	79	Microsoft Corporation	Application
	Microsoft Edge	Default	80	Microsoft Corporation	Application
	Microsoft Edge Update	Default	1		Application
	Microsoft Visual C++ 2015 Redistributable (x64) -	Default	14	Microsoft Corporation	Application
	Microsoft Visual C++ 2015 Redistributable (x86) -	Default	14	Microsoft Corporation	S Application
	Mozilla Firefox 68.0.1 (x86 pl)	Default	68	Mozilla	S Application
	Mozilla Firefox 69.0.1 (x86 pl)	Default	69	Mozilla	S Application
	Mozilla Firefox 70.0.1 (x86 pl)	Default	70	Mozilla	S Application
	Mozilla Firefox 71.0 (x86 pl)	Default	71	Mozilla	Aktywuj syste 🖗 🚧 🚧
	Mozilla Firefox 72.0 (x86 pl)	Default	72	Mozilla	Przejdź do ustawi 🚇 🏘 Przejdź do ustawi
What's new?	\$		Event Log		

The displayed list contains applications that:

- have been detected on the host with installed Agent and have been assigned to the embedded application patterns,
- have been manually added by the Administrator,
- were detected on the host with the installed Agent through a system registry scan and a pattern was created for them.

Patterns based on which application installations are detected are described in detail in the <u>App template</u> 262 chapter.

Applications on the selected host

Going to the **Device Information** window and then to the **Software / Installations** tab you can see the list of applications installed on the selected host:

WIN10 10 IP. 192.168.69.206 DNS:	WIN10		nce nVisio CONNEC	-	Remote access		ив2 •		DOWN
						SI	MB3 •	Last respons	e: 23.03.2020 16:00:
GENERAL	Installations History								
PERFORMANCE	Installation properties	Uninsta	all 🛛 🕞	Process appli	cations			Filter Q	
	Name 🔺	Ver 🔺	Compar	Installed	MSI Installer	Category	User	License	Serial number
HARDWARE	Audited applications								
	7-Zip 19.00 (x64)	19	Igor P	03.02.2020	Waiting for data	Default	Mikuz	Licencja te	53412
SOFTWARE	Axence nVision	11.0	Axenc	10.12.2019	Waiting for data	Licencjonowane			
ASSETS	Google Chrome	80	Googl	10.02.2020	Waiting for data	Default	Administrator		
ASSETS	Mozilla Firefox 73.0.1	73	Mozilla	19.02.2020	Waiting for data	Default	Mikuz	Licencja te	4422004
FILES	Security Update (KB44		Micro	12.06.2019	Waiting for data	Default			
11220	Windows 10 Pro	10	Micro	01.07.2019	Waiting for data	SO	Mikuz		
SNMP	Not audited applications								
	Axence nVision Agent	2	Axence	05.12.2019	Waiting for data	Licencjonowane	Administrator		
WINDOWS	Brave	80	Brave	11.02.2020	Waiting for data	Default			
	Internet Explorer	11	Micro	05.12.2019	Waiting for data	Default			
EVENTS	LibreOffice	6	The D	21.11.2019	Waiting for data	Default			
	Security Update (KB45		Micro	12.06.2019	Waiting for data	Default			
	Security Update (KB45		Micro	20.08.2019	Waiting for data	Default			
	Security Update (KB45		Micro	10.03.2020	Waiting for data				
	(G) Update (KB4551762)		Micro	16.03.2020	Waiting for data				
	Unknown applications								
	SET Endpoint Security	7	ESET,	17.01.2020	Waiting for data	Default			
	GOG Galaxy		GOG.c	07.01.2020	Waiting for data	Default			

Application properties

To go to the application properties, double-click on the item in the list or click the **Properties** button above the list:

	O Add Z Properties			
All assets				
I GENERAL	W Application		- ×	
COMPONENTS			L .	
IN INFRASTRUCTURE ▷ KRYTYCZNE	7-Zip 19.00 (x64)			
I OTHER	OT TEMPLATE	APPLICATION PROPERTIES AND TEMPLATE		
E SOFTWARE	of TEMPORE			
	INSTALLATIONS	Name: 7-Zip 19.00 (x64)		
		Type: S Application	•	
DOCUMENTS	LICENSES	Category: Default	- 1	
		Descripton		
	11 USERS	Descripton:		
		Company: Igor Pavlov	-	
		Version: 19		
		Audited: Yes		
		Autodetection: Yes Manage		
				wuj system Windows
				lź do ustawien, apy ඉස්හුwować system Windows.
			Close	

Properties window will be opened. The individual elements shown here are described in the following chapters.

An important parameter of the application is the "Audited" field - if the application is audited, it is possible to assign a license to it.

8.5.2.2 Application categories

The Administrator has the option of assigning the application to categories that can be created and edited if need to. The categories allow to create your own way of organizing applications displayed in the program. Initially, the program contains only one "Default" category.

Creating new category

To create a new category, click the **Application categories** button on the main toolbar of the program. A list of categories will appear:

N Axence nVision 11								
Generate protocol MSI packages manager	Print bar Asse codes settin Inventory	Mana			levice permissions rustee permissions	Printout audit print cost Printouts	Beports Reports Alerts Reports and alerts	
	Assets							
Q. Search (Ctrl+F)			🕒 Add 🗹 Prope					
All assets			Name		A			Version
GENERAL COMPONENTS			N Applications					— ×
INFRASTRUCTURE KRYTYCZNE NOWE			Mana	ge applicatior	n categories			
OTHER			G Add 🛱 Dele	te 🗹 Properti	es		Filter Q	
			Name					
			Default					(default)
Licenses			Licencjonowane					(acrossly)
			so					
All			Testowe					
Agreement Invoice								
License								
Proposal								
Warranty Warunki								

To create a new category, click the **Add** button and enter the name of the new category. While creating a category, you can specify a default category. This means that for **newly detected applications**, the selected category will be used as the default. A maximum of one category can be specified as default.

N Applications				
Manage applicat	ion categories			
🕒 Add 🛅 Delete I 🗡 Prop	perties		Filter Q	
Name				A
	Axence nVision 11		×	
Licenc]onowane				
	Add a category			
Testowe				
	test			
	Set as default			
		<u>O</u> K <u>C</u> ancel		

Removing category

To delete a category, go to the **Application Categories** window from the main toolbar, select the category on the list and click **Delete**. All applications that were in this category will be moved to the default category.

Assigning application to category

To assign an application to a category, select the appropriate item when creating or editing the application:

nv App	lication				×
APP	7-Zip 19.00 (x64)				
От	TEMPLATE	APPLICATION PRO	PERTIES AND TEMPLATE		
	INSTALLATIONS		7-Zip 19.00 (x64)		
-	LICENSES	Type: Category:	Application Default Tefault Tefault		
12	USERS	Descripton:	Default Licencjonowane SO		
		Company: Version: Audited: Autodetection:	Yes	•	
				<u>C</u> lose	

Category use case

Categories can support other administrative activities eg. present applications belonging to the selected category. Such information can be displayed in the **Assets** tab available from the main program window:

Axence nVision 11 Main Tools About nVision					- 8 ×
Constate MSLatekana Dist har Assats	ication categories age templates Igure license type Igure license type	Printout Configure audit printouts Printouts Reports View Alerts grents Reports and alerts	• • • • • • • • • • • • • • • • • • • •	P	
Devices Users Assets	Applications Applications Installation histo	У			
Q, Search (Ctrl+F)	O Add Z Properties				Filter Q.
All assets	G Found results: 2				26
GENERAL COMPONENTS	Name	Category	▼ ▼ Version	Company	Туре
INFRASTRUCTURE	manualApplication	SO	5		(S) Application
B KRYTYCZNE	Windows 10 Pro	\$0	10	Microsoft Corporation	篖 Operating system
Powe Nove Nove Software Noves Software Noves Software Noves Software Noves Noves					

8.5.2.3 Application templates

Application templates are used to identify the installation of various types of applications. Patterns are divided into two types - created locally and synchronized with the Axence pattern database. Together with the nVision program, approx. 600 manually created patterns are provided to recognize the most-used applications.

nVision distinguises the following types of patterns:

- Applications and operating systems
- Security updates,
- Drivers,
- Operating Systems.

In the further part of the chapter, all four as above are to be understood as applications.

Application pattern

By going to the **Assets** tab visible in the main program window, and then double-clicking on any item on the **Application** list in the **Software section**, you can edit the application. The first available tab is pattern that defines basic information about the application:

N App	lication				×
АРР	manualApplication				
от	TEMPLATE	APPLICATION PRO	PERTIES AND TEMPLATE		
	INSTALLATIONS		manualApplication		
80	LICENSES	Type: Category:		• 🔟	
42	USERS	Descripton:	asd		
		Company:		•	
		Version:			
		Audited: Autodetection:	Yes	•	
		Autodetection.	No Monage		
				<u>C</u> lose	

Application has following attributes:

- Name,
- Type,
- Category,

- Description (optional),
- Company (optional),
- Version (optional),
- Audited,
- Autodetection.

After clicking the **Manage** button next to the **Autodetection** item, the automatic installation detection settings window will open. To enable automatic application detection, its pattern must contain at least one registry or file entry that is marked as identifying:

Axence nVision 11						×
OT Windows 10 Pro						
AUTODETECTION SETTINGS						
To enable autodetection of the appli as identifying the application. Autodetection:	cation, the applica	tion template must conta	in at least one registry	template or at least one file t	template that is marked	as
🕒 Add 🛗 Delete 👱 Prope	rties			Filter	Q	
Name	Version	*	Company	Identificatio	on	
OS: Microsoft Windows 10 Pro	*		Microsoft Corporation		Image: A state of the state	
FILES						
O Add m Delete ✓ Prope	rties			Filter	۹	
File name Version		Company	Product name	Original file name	Identification	
		<no data="" t<="" th=""><th>to display></th><th></th><th><u>Q</u>K <u>C</u>ancel</th><th></th></no>	to display>		<u>Q</u> K <u>C</u> ancel	

Autodetection of installalled applications

The registry entries are checked first. If there the application already **has an entry in the registry**, it is considered to **be installed on the computer**. If the entry is not present, the files marked in the patterns as identifying are searched (most often it is the * .exe file that allows program run). If found, the application is considered to be on the computer. Otherwise (no registry entries and identification files) the application will not be detected.

Patterns synchronized with Axence database

The templates included in nVision were created manually based on the programs most frequently used by users. More information on managing embedded patterns is described in the builtin templates chapter.

Patterns created automatically

Other templates are created automatically by nVision based on entries in the registers of monitored computers. Applications detected with this method are displayed in the list of detected and unknown applications where type of license is unknown to them.

These patterns can be edited, updated with license type, files associated with the application or files identifying it. If the Administrator is aware of an application from the list of detected and unknown, then it is recommended to edit its template.

8.5.2.4 Built-in templates managment

To go to the built-in templates management window, select Manage templates from the main toolbar:

Generate MSI packages Print bar Assets	ation categories or template: gare license type Audit to Manage trustee p DataGuard		Distribution Announ tasks Helpt		
Q. Search (Ctrl+F)	🖸 Add 🔟 Properties				
Q All assets		w Application templates			— ×
GENERAL	Name	Z Edit template 🕃 Update template database Process templ	lates on all devices		
COMPONENTS INFRASTRUCTURE	manualApplication			Filter Q	
		Show. O Applications & OS			
D NOWE		Name	▲ Version ▲	Company	Enabled
OTHER SOFTWARE		Is audited : Audited applications	-		
Software audit		NET Memory Profiler	3	SciTech Software	
Applications		.print Client Windows	7	ThinPrint 1C	
Licenses		О 1С:предприятие 10:Предприятие 10:Налогоплательщик	8	10	
		© 2007 Microsoft Office system	12	Microsoft Corporation	
		3D Constructor Pro	12	Reactor	
Invoice		SD SUBSTRATES FTO SD Mark 11	1	Futuremark Corporation	
License		3DMark03	3	Futuremark Corporation	×
Other Picture		3DMark05	1	Futuremark Corporation	
Proposal		3DMark06	1	Futuremark Corporation	
Warranty		ABBYY FineReader 10 Corporate Edition	10	ABBYY	
		ABBYY FineReader 10 Professional Edition	10	ABBYY	
		ABBYY FineReader 11	11	ABBYY	
		ABBYY FineReader 6.0 Professional	6	ABBYY Software House	×
		ABBYY FineReader 8.0 Corporate Edition	8	ABBYY Software House	
		ABBYY FineReader 8.0 Professional Edition	8	ABBYY Software House	Image: A state of the state
		ABBYY FineReader 9.0 Cornorate Edition	9	ARRYY	
					Close

Patterns visible on the list have been synchronized with the Axence database and only the category to which they belong can be modified. Administrator has the ability to disable selected items using the context menu or by switch located on the right side of the window.

Patterns database update

Click **Update template database** button and nVision will download the latest available templates from the Axence server and add them to nVision.

8.5.2.5 Adding new application

To add a new application, go to the **Assets** tab visible in the main program window, scroll down for **Applications** in the **Software** section. Above the list of applications, locate and click the **Add** button. The window for adding a new application will open

Axence nVision 11							
	nage templates figure license type		Printout audit Print cost Printouts	Distribution Announcement tasks HelpDesk			
Q. Search (Ctrl+F)	• Add <u>Properties</u>						
All desets GENERAL COMPONENTS INFRASTRUCTURE EXRYTYCZNE KRYTYCZNE CONVE OTHER Software audit Genese DOCUMENTS All Clenses DOCUMENTS Agreement Clense Documents Clense Documents Distance Documents Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance D	APPLICATION PRO	Yes				× ×	Complexity of the second secon
					<u>о</u> к	Cancel	

In the next step, enter the values for the required fields such as "Name", "Type" and "Category". The remaining fields are optional.

The option of automatic application discovery has been described in <u>app template</u> chapter.

8.5.2.6 Application installations

Installations are instances of applications that have been automatically detected on computers with installed Agents. You cannot manually add or remove installations. Installations can also be assigned to users and licenses.

If you need to edit the application, go to the **Assets** tab visible in the main program window and double-click on any item on the **Application** list in the **Software** section, .

The **Installations** tab allows you to see a list of devices on which the installation of the selected application has been detected:

Application Mozilla Firefox 73	0.1 (x86 pl)					
TEMPLATE		S OF THIS APPLICATION	1			
INSTALLATIONS	🗾 Installation	properties			Filter Q	
	Installed	Device	▲ MSI Installer	User	License	Serial number
LICENSES	Audited application	ons				
LUSERS	19.02.2020	WIN10, 192.168.69.206	Waiting for data	Mikuz	Licencja testowa	4422004

Double-clicking an item on the installation list or selecting Properties option allows you to view detailed information about the selected installation:

Application					□ ×			~
Mozilla Firefox 73.0.1	(206 -1)							
	(xoo pi)							
							Type	
		A 101 A4						
	Installation properties	Axence nVision 11						×
	Installed Device	💼 Installa	tion					
		INSTALLATION						
		Name:	Mozilla Firefox 73.0.1 (x	x86 pl)		Use	r. Mikuz	
		Type:	Application			▼ License	e: Licencja testowa	
		Category:	Default			Serial numbe	r: 4422004	
		Descripton:						
		Company:	Mozilla			-		
		Version:	73					
		Audited:	Yes (default)			•		
		REGISTRY						
								Filter Q
		Name		Version	0	ompany	Path	
		Mozilla Firefox 73.0.1	(x86 pl)	73.0.1	м	ozilla	C:\Program F	Files (x86)\Mozilla Firefox
		FILES						
								Filter Q
		File name	Version	Company	P	roduct name	Original file name	Path
Default		crashreporter.exe	73.0.1	Mozilla Found	lation Fi		crashreporter.exe	C:\Program Files (x86)\Moz
		helper.exe	73.0.1	Mozilla Corpo			HelpenexeVindows	C:\Program Files (x86)\Moz
		firefov eve	79.0.1	Mozilla Corpo	ration Fi	refox Przejdź do usta	wieć aby aktywować	
								Close

In the installation properties window you can assign user and license. This will impact the <u>licensing</u> <u>methods</u> and <u>license</u> on certain configurations.

If the application is audited, it is possible to exclude its selected installation from the audit. To achieve this, change the value of the **Audited field** in the installation properties window:

installa	tion					
Installa	tion					
STALLATION						
Name:	Mozilla Firefox 73.0.1 (x86 pl)		User: Mikuz		
Type:	Application		•	License: Licencja	testowa	
Category:	Default		s	erial number: 4422004	ł	
Descripton:						
Company:	Mozilla		•			
Version:			•			
Audited:	Yes (default) Yes (default)		•			
REGISTRY	Exclude from audit					
						ilter Q
Name	•	Version	0		Path	
vame Aozilla Firefox 73.0.1		73.0.1	Company Mozilla			les (x86)\Mozilla Firefox
lozilla Firefox 73.0.1	(xoo pi)	73.0.1	Mozilia		C:\Program Fi	les (xoo) (mozilia Firerox
ILES						
ILE3						
					Fi	lter Q
File name	Version	Company	Product name	Original file	name	Path
rashreporter.exe	73.0.1	Mozilla Foundation	Firefox	crashreport		C:\Program Files (x86)\Mo:
		Mozilla Corporation	Firefox Aktv	wuj systepenexel	indows	C:\Program Files (x86)\Mo:
helper.exe	73.0.1	Mozilia Corporation				VETERO WINE OWS BEN MOS

8.5.2.7 Licenses and users

To edit applications, go to the **Assets** tab visible in the main program window, then double-click on any item on the **Applications** list in the **Software** section.

Licenses

Licenses tab allows to display a list associated with selected application:

Inventory	module	269
-----------	--------	-----

INSTALLATIONS O Add Delete Properties Group by (None) Filter Filter Usage Belongs to Name Person responsible Purchase date Quantity Usage Szpital Licencja testowa Mikuz 05.03.2020 5 2	TEMPLATE LICENSES FOR THIS APPLICATION INSTALLATIONS Image: A constraint of the second se
INSTALLATIONS	INSTALLATIONS IC Add Delete C properties Group by (None) Filte Belongs to Name Person responsible Purchase date Quantity Usage Stotial USERS IUSERS
Belongs to Name Person responsible Purchase date Quantity Usage LICENSES Szpital Licencja testowa Mikuz 05.03.2020 5 2	Belongs to Name Person responsible Purchase date Quantity Usage Szpital Licencja testowa Mikuz 05.03.2020 5 2
LICENSES Szpital Licencja testowa Mikuz 05.03.2020 5 2	LICENSES USERS USERS

To add a new license associated with the selected application, click the **Add** button and fill in the required fields:

Add license BACK INFORMATION Information in function 73.0.1 (d8 pl) Asset type Lense Departament: Ubassigned) Select Departament: Ubassigned) Select Person responsible: Select Quentity: Image: Ubassign application Filter Q. Name Version ADDITIONAL FIELDS Filter Q. Name Value Displication date Displication Select and the date Select and the date Displication date Select and the date Select and the date Select and the date </th <th>V License</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>×</th>	V License								×
*Name: Mozilla Firefox 73.0.1 (x86 pl) Asset type: Lienne Departament: (Unassigned) Person responsible: Select Inventory number: Select Quantity: 1 Name Version Company 1 Maxe: Value Purchase date 26.03.0209 Yalue 1 Quantity: 1 Quantity: 26.03.0209 Yalue 1	Add license								
Aset type: icense 	BASIC INFORMATION								
Departament: Utassigned) Person responsible: Select Inventory number: Quantity: Quantity: 1 Dulminted Filter Q	* Name:	Mozilla Firefox 73.0.1 (x86 pl)							
Departament: Utassigned) Person responsible: Select Inventory number: Quantity: Quantity: 1 Dulminted Filter Q	Asset type:	License				•	Configure		
Person responsible Select Inventory number									
Inventory numbe: Quartity: Quartity: Quartity: Dulimited RELATED APPLICATIONS RELATED APPLICATIONS Rame Version Version Company Mozilia Assign application Version Version Company Mozilia ADDITIONAL FIELDS Filter Q. Supplier Value South Company Purchase date South Company Purchase d		(ondolighta)					Oslast		1
Quantity: Image: Chassign application Image: Image: <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>Select</td><td></td><td>i .</td></t<>							Select		i .
Inimited	Inventory number.								
RELATED APPLICATIONS									
Assign application Filter Q Name Version Mozilla Mozilla ADDITIONAL FIELDS Filter Q Name Value Filter Q Name Value Supplier Value Supplier Value		Unlimited							
Name Version Company Mozilla Firefox 73.0.1 (x86 pl) 73 Mozilla ADDITIONAL FIELDS Filter Q International Adde Filter Q International Adde Explainal Adde License type Osoba odpowiedzialna (przestarzałe) Purchase date Supplier Value Value International Adde Interna	RELATED APPLICATION	IS							
Name Version Company Mozilla Firefox 73.0.1 (x86 pl) 73 Mozilla ADDITIONAL FIELDS Filter Q. Filter Q. Name Value Filter Q. Name Value Opponue Company Expiration date 0 Opponue Company License type Opponue Company Opponue Company Purchase date 26.03.2020 Opponue Company Supplier Opponue Company Opponue Company Value Value Opponue Company									
Mozilla Firefox 73.0.1 (x86 pl) 73 Mozilla ADDITIONAL FIELDS Fitter	Assign application	Unassign application				Filter Q			
ADDITIONAL FIELDS Fiter Name Xame Xame Xame Xame Xalue X	Name	*	Version	*	Company				
Name Value Expiration date	Mozilla Firefox 73.0.1 (x86)	pl)	73		Mozilla				
Name Value Expiration date									
Name Value Expiration date									
Name Value Expiration date	ADDITIONAL FIELDS								
Name Value Expiration date						Filter O			
Expiration date International Content of Conten									
License type Osoba odpowiedzialna (przestarzałe) Purchase date Supplier Value			•	Value					-
Osoba odpowiedzialna (przestarzałe) Purchase date Supplier Value									
Supplier Value		estarzałe)							
Value	Purchase date			26.03.2020					
	Value								
<u>OK</u> <u>Cancel</u>						<u>0</u> H	(<u>c</u>	ancel	

Creating new licenses is described in <u>add license</u> [276] chapter.

Existing licenses can be associated with any applications. This process has been described in general information 280 chapter.

Users

Licenses tab allows to display users assigned to the license associated with the application:

TEMPLATE	USERS WITH LICENSE FO	R THIS APPLICATION	
INSTALLATIONS	Properties		Filter Q
	User name	▲ Serial number	▲ License
LICENSES	Administrator	4422004	Licencja testowa
	Mikuz	53412	Licencja testowa
USERS	tester@WIN10VM	53412	Licencja testowa

Process of associating users with licenses is described in <u>license users</u> that the license is described in <u>license users</u> and the license is described in th

8.5.2.8 Installation History

The installation history feature allows you to collect information about removed and installed applications on computers with the Agent installed.

To go to the installation history, select the **Assets** tab in the main program window, then scroll down for **Applications** in the **Software** section. The installation history of all applications will be displayed above the application list:

W Axence nVision 11									- 8
Main Tools About nVision									
Generate MSI nackanar Print har Assate	figure license type Audit 🔀 Mana	ge device permissions	Printout Configure audit print cost Printouts	Beports Repo	View events orts and ale	Alerts Distribution Announcements Open tasks HelpDesk	Open SmartTime	Options	
Devices Users Assets		s Installation history							
Q Search (Ctrl+F)		marzec 2020 *	Show application updat	es					Filter Q.
All assets	Device	° Date ▼ °	Type 9	Operat	ion ⁹	Description			
GENERAL	DESKTOP-N0QNHI1, 192.168.0.108	26.03.2020 01:20:39	📷 Software updates	Û	Remove	Detected removal of Update (KB4528760) application			
COMPONENTS INFRASTRUCTURE	DESKTOP-N0QNHI1, 192.168.0.108	26.03.2020 01:20:39	👼 Software updates	官 二	Remove	Detected removal of Update (KB4532938) application			
	DESKTOP-N0QNHI1, 192.168.0.108	26.03.2020 01:20:38	📷 Software updates	•	Add	Detected Update (KB4551762) application			
> NOWE	DESKTOP-N0QNHI1, 192.168.0.108	26.03.2020 01:20:38	📷 Software updates	0	Add	Detected Security Update (KB4537759) application			
OTHER	DESKTOP-N0QNHI1, 192.168.0.108	26.03.2020 01:20:38	📷 Software updates	0	Add	Detected Update (KB4534132) application			
> SOFTWARE	DESKTOP-N0QNHI1, 192.168.0.108	26.03.2020 00:30:03	📷 Software updates	0	Add	Detected Security Update (KB4541338) application			
Software audit	DESKTOP-N0QNHI1, 192.168.0.108	24.03.2020 14:24:01	🔯 Software	0	Add	Detected Mozilla Firefox 74.0 (x64 pl) application			
Licenses	DESKTOP-N0QNHI1, 192.168.0.108	24.03.2020 14:24:01	🔯 Software	•	Add	Detected Mozilla Maintenance Service application			
	DESKTOP-N0QNHI1, 192.168.0.108	24.03.2020 14:24:00	📷 Software updates	0	Add	Detected Update (KB4513661) application			
	DESKTOP-N0QNHI1, 192.168.0.108	24.03.2020 14:24:00	📷 Software updates	0	Add	Detected Update (KB4517245) application			
- 🚊 Agreement	DESKTOP-N0QNHI1, 192.168.0.108	24.03.2020 14:24:00	🔯 Software	0	Add	Detected Internet Explorer application			
- Invoice	DESKTOP-N0QNHI1, 192.168.0.108	24.03.2020 14:23:59	🔯 Software	0	Add	Detected Windows 10 Pro application			
- Dicense Dither	DESKTOP-N0QNHI1, 192.168.0.108	24.03.2020 14:23:59	🔯 Software	0	Add	Detected Axence nVision Agent application			
Picture	DESKTOP-N0QNHI1, 192.168.0.108	24.03.2020 14:23:59	📷 Software updates	0	Add	Detected Security Update (KB4528759) application			
Proposal	DESKTOP-N0QNHI1, 192.168.0.108	24.03.2020 14:23:59	📷 Software updates	•	Add	Detected Update (KB4528760) application			
	DESKTOP-N0QNHI1, 192.168.0.108	24.03.2020 14:23:59	📷 Software updates	0	Add	Detected Update (KB4532938) application			
皆 Warunki	DESKTOP-N0QNHI1, 192.168.0.108	24.03.2020 14:23:59	oftware	0	Add	Detected Axence nVision application			
	DESKTOP-N0QNHI1, 192.168.0.108	24.03.2020 14:23:59	📷 Software updates	0	Add	Detected Security Update (KB4516115) application			
	WIN10, 192.168.69.206	16.03.2020 11:08:43	📷 Software updates	Ŷ	Remove	Wykryto usunięcie aplikacji Update (KB4540673)			
	WIN10, 192.168.69.206	16.03.2020 11:08:43	📷 Software updates	0	Add	Wykryto aplikację Update (KB4551762)			
	WIN10, 192.168.69.206	10.03.2020 20:47:30	📷 Software updates	ŧ.	Remove	Wykryto usunięcie aplikacji Update (KB4532693)			
	WIN10, 192.168.69.206	10.03.2020 20:47:30	📷 Software updates	0	Add	Wykryto aplikację Update (KB4540673)			
	WIN10, 192.168.69.206	10.03.2020 19:50:32	Diffware updates	0	Add	Wykryto aplikację Security Update (KB4541338)			
									Aktywuj system Windows Przejdź do ustawień, aby aktywować system Windows.
What's new?	\$					Event L	Log		
Devices: 236 (4 Ok, 1 Warning, 192 Down)	Services: 558 (6 Ok, 546 Down)	Alerts: 1 (De	vice with alerts: 1)						

Installation history of selected host

Go to the Device Information window, select **Software / History** tab to see the **installation history** of the selected host:

WIN10	NS: WIN10	Axence nVision Disconnect		Remote access	Device status		
					Last response: 23.03.2020 16:00:21		
GENERAL	Installations History	,					
PERFORMANCE	← → @ ₫ ₫	← → Q 1 1 1 III luty 2020 - 🗹 Show application updates					
	Date 👻 Ϋ	Туре 🦁	Operation	♥ Description	٩		
HARDWARE	19.02.2020 14:48:56	🔯 Software	Remove	Detected removal of Mozilla Firefox application			
	19.02.2020 14:48:54	🔯 Software	O Add	Detected Mozilla Firefox 73.0.1 (x86 pl) application			
SOFTWARE	14.02.2020 17:45:51	📷 Software updates	C Add	Wykryto aplikację Security Update (KB4524244)			
	13.02.2020 08:45:21	📷 Software updates	Remove	Wykryto usunięcie aplikacji Update (KB4528760)			
ASSETS	13.02.2020 08:45:21	📷 Software updates	C Add	Wykryto aplikację Update (KB4532693)			
	13.02.2020 05:41:28	📷 Software updates	Remove	Wykryto usunięcie aplikacji Update (KB4532938)			
FILES	13.02.2020 05:41:28	📷 Software updates	Add	Wykryto aplikację Security Update (KB4537759)			
	13.02.2020 05:41:28	📷 Software updates	C Add	Wykryto aplikację Update (KB4534132)			
SNMP	13.02.2020 04:46:59	📷 Software updates	O Add	Wykryto aplikację Security Update (KB4538674)			
WINDOWS	11.02.2020 04:40:35	oftware	Remove	Wykryto usunięcie aplikacji Brave			
WINDOWS	11.02.2020 04:40:34	📷 Software	C Add	Wykryto aplikację Brave			
EVENTS	10.02.2020 09:41:10	🔯 Software	Remove	Wykryto usunięcie aplikacji Microsoft Edge			
EVENTO	10.02.2020 09:41:10	oftware	Remove	Wykryto usunięcie aplikacji Google Chrome			
	10.02.2020 09:41:07	oftware	Add	Wykryto aplikację Microsoft Edge			
	10.02.2020 09:41:07	🔯 Software	C Add	Wykryto aplikację Google Chrome			
	03.02.2020 15:12:16	oftware Software	C Add	Detected Mozilla Firefox application			
	03.02.2020 12:08:18	oftware Software	Add	Detected Sublime Text 3 application			
	03.02.2020 11:07:51	🔯 Software	C Add	Detected 7-Zip 19.00 (x64) application			

8.5.3 License management

8.5.3.1 Licenses list

To display licenses list, go to the **Assets** tab in the main program window, and then scroll down for **Licenses** in the **Software** section. List displayed all licenses added to nVision:

Axence nVision 11		– 8 ×
👕 🤷 📅 🚱 📻 Mana	ation categories per ingitates per formet type Add Standard house per instates DataGiude Printices DataGiude Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printices Printic	
Devices Users Assets	Licenses Department: Any or none - Assets Documents History Events	
Q Search (Ctrl+F)	🗘 Add 🖹 Delete 🗹 Properties Group by (None) 🔹	Filter Q
All assets	Name Belongs to Person respon Purchase date Quantity Usage	
GENERAL COMPONENTS	Licencja testowa Szpital Mikuz 05.03.2020 6 2	
INFRASTRUCTURE	Licencje google (Unassigned) Mikuz 05.03.2020 1	
B KRYTYCZNE		
E> NOWE		
OTHER SOFTWARE		
- 50 Software audit		
Licenses		
> DOCUMENTS		
- 🖴 All		
- E Invoice		
Other		
- Picture		
- E Proposal - E Warranty		
Warunki		
-		
		Aktywuj system Windows Przeidź do ustawień, aby aktywować system Windows.
What's new?	Event Log	
Devices: 236 (3 Ok, 1 Warning, 193 Down)	Services: 558 (4 Ok, 548 Down) Alerts: 1 (Device with alerts: 1)	

Licenses are always created manually by the Administrator. Licenses can be associated with users or installations of selected applications. Licenses can only be assigned to audited applications.

Licenses assigned to user

To view the licenses assigned to user, go to the user information window and select the **Software / Licenses Used** tab:

general	Properties		Filter Q
ACTIVITY	License Licencja testowa	Serial number 4422004	
SCREENSHOTS			
ASSETS			
SOFTWARE			
USED LICENSES			
INSTALLATIONS			
RESPONSIBLE FOR			
EVENTS			
DATAGUARD			
BLOCKADES			
SETTINGS			
PERMISSIONS			

Application installations assigned to user

To view the application installations assigned to the user, go to user information window and then select the **Software / Installations** tab

nV Use	er: Administrator									-		×
2	ADMINISTRATOR Role: SUPER ADMINISTRATOR	٩										
2 _{ad}	GENERAL	✓ Installation properties Filter Q										
th	ACTIVITY	Name	▲ Versio ▲	Company	Device	Installed	MSI Installer	Category	License	Serial number		
		Audited applications										
0	SCREENSHOTS	Google Chrome	80	Google LLC	WIN10, 1	10.02.2020	Waiting for data	Default				
	ASSETS	Not audited applications										
-		Axence nVision Agent	2	Axence	WIN10, 1	05.12.2019	Waiting for data	Licencjonowane				
	SOFTWARE											
	USED LICENSES											
	INSTALLATIONS											
	RESPONSIBLE FOR											
	EVENTS											
U	DATAGUARD											
A	BLOCKADES											
٥	SETTINGS											
38	PERMISSIONS											

License responsibility

In the license properties window you can specify the person responsible for the selected license:

N Lice	nse								- ×
	Licencja testowa							Current state: 2/	5
	Licencja testowa							<u>Details</u>	
il.	GENERAL	BASIC INFORMATION							
	INSTALLATIONS		Licencja testowa License				•	<u>C</u> onfigure	
Ē	DOCUMENTS	Bepartament:					•	oningare	
44	USERS	Person responsible: Inventory number:	Mikuz				×	Transfer	
ອ	HISTORY	Quantity:	5 🛟						
9	ALERTS	RELATED APPLICATION	_						
	LICENSE TRACKING	Assign application	Unassign application				Filter Q		
		Name	•	Version	•	Company			
		7-Zip 19.00 (x64)		19		Igor Pavlov			
		Mozilla Firefox 73.0.1 (x86 p	(lc	73		Mozilla			
		ADDITIONAL FIELDS							
							Filter Q		
		Name		•	Value				
		Expiration date							
		License type Osoba odpowiedzialna (prze	estarzale)						
		Purchase date	estalzare)		05.03.2020				
		Supplier							
		Value							
								C	ose

To view the licenses for which the user is responsible, go to user information window and then select the **Software / Responsible** tab:

Account: MIKU@WI	N10 Role: ADMINISTRATOR				Create announcement 👻	N/a Status: Waiting for data
d GENERAL	Properties Group b	vy (None) -				Filter Q
ACTIVITY	Name	 Belongs to 	Person responsible	Purchase date	Usage	Quantity
	Licencja testowa	Szpital	Mikuz	05.03.2020	2	5
SCREENSHOTS	Licencje google	(Unassigned)	Mikuz	05.03.2020	0	1
ASSETS						
SOFTWARE						
USED LICENSES						
INSTALLATIONS						
RESPONSIBLE FOR						
EVENTS						
EVENTS						
EVENTS						
EVENTS DATAGUARD BLOCKADES						
EVENTS DATAGUARD						
EVENTS DATAGUARD BLOCKADES						
EVENTS DATAGUARD BLOCKADES SETTINGS						

8.5.3.2 Adding new license

To add a new license, go to the **Assets tab** in the main program window and then scroll down for **Licenses** in the **Software** section. Above the license list, click the **Add** button. The window for adding a new license will open:

Axence nVision 11										
	ication categories age templates igure license type									
Devices Users Assets		N License								- ×
	O Add D De	Add license								
All assets		BASIC INFORMATION								_
COMPONENTS		BASIC INFORMATION								
INFRASTRUCTURE		* Name:								
D NOWE		Asset type: Li	cense					-	Configure	
OTHER SOFTWARE		Departament:						-		
Software audit		Person responsible:							Select	
Applications Licenses		Inventory number:								
DOCUMENTS		Quantity: 1	\$							
			Unlimited							
		RELATED APPLICATIONS								
		Assign application	Jnassign application					Filter Q		
		Name		 Version 			Company			
Proposal						landar.				
Warunki					<no data="" di<="" td="" to=""><td>ispiay></td><td></td><td></td><td></td><td></td></no>	ispiay>				
		ADDITIONAL FIELDS								
								Filter Q		
		Name			▲ Val	lue				
		Expiration date License type								
		Osoba odpowiedzialna (przest	arzałe)							
		Purchase date			26.0	03.2020				
		Supplier Value								
	\$								QK Ca	ncel

Standard description fields include:

- Name,
- Department (optional),
- Person responsible (optional),
- Inventory number (optional),
- Related applications (you can only assign license to audited applications),
- Quantity.

Additional license configuration options are described in the following chapter.

Alternative license add process

You can add a license directly from the application edition window - select an item from the list of applications, go to its properties window, select the **Licenses** tab. In the upper part of the window you will see the **Add** button, which will open the window for adding licenses:

⊳v License						ſ	×
Add license							
BASIC INFORMATION							
* Name:	Mozilla Firefox 73.0.1 (x86 pl)						
Asset type:	License				•	Configure	
Departament:	(Unassigned)				•		
Person responsible:						Select	
						Scient	
Inventory number:							
Quantity: 1 🗘							
	Unlimited						
RELATED APPLICATION	IS						
Assign application [†]	Unassign application				Filter Q		
Name	•	Version	•	Company			
Mozilla Firefox 73.0.1 (x86	pl)	73		Mozilla			
ADDITIONAL FIELDS							
					Filter Q		
Name		*	Value				
Expiration date							
License type							
Osoba odpowiedzialna (prz	estarzałe)						
Purchase date			26.03.2020				
Supplier							
Value							
					<u>о</u> к	<u>C</u> ar	cel

License created with this process will be automatically bound with application, to which it's been added.

8.5.3.3 License additional fields

Additional fields for licenses

To add an additional field for all licenses, select **Configure license type** on the main toolbar. This will open the configuration window where additional fields can be added:

Axence nVision 11										
Main Tools About nVision										
Generate MSI packages Print bar Assets	cation categories age templates <u>stor location type</u> Audit Schwage trustee permissions DataDuard									
		e) 👻								
All assets GENERAL COMPONENTS INFRASTRUCTURE		Configure license type				6				
B KRYTYCZNE B NOWE I OTHER B SOFTWARE		License type configuration * Name: License								
Applications		Description: License Inventory number: Prefix								
- B All - B Agreement - D Invoice - D License		Additional fields Alert rules	Axence nVision 11			×				
Conse Other Picture Proposal		Field name * 1 Expiration date (built-in) 0	Add new field							
		License type (built-in) 7 Osoba odpowiedzialna (przestarzałe) 7	Field configuration * Name:							
		Purchase date (built-in) D Sapplier (built-in) T	* Type: Text Description:							
			Required:							
						QK Qancel				

You cannot add additional fields for single licenses.

8.5.3.4 License removal

To remove a license, go to the **Assets** tab in the main program window, and then scroll down for **Licenses** in the **Software** section. After selecting the item to be deleted, click the **Delete** button above the license list:

Axence nVision 11 Main Tools About nVision		- 8 ×
👕 📢 👼 🦓 Appli	alication categories swape templates Addr Space trustee permissions Tigure longer trustee permissions Databaule	^
Devices Users Assets	Licenses Department: Any of none * Assets Documents History Events	
Q Search (Ctrl+F)	© Add 👔 Detete. ∠ Droperties Group by (None) -	Filter Q
All assets GENERAL	Name Belongs to Person respon Purchase date Quantity Usage Licencja treatowa Szgóral Makuz 05.03.0000 \$ 1	
COMPONENTS INFRASTRUCTURE C> KRYTYCZNE NOWE OTHER		
SOFTWARE Software audit Applications Licenses		
All		
-		
- B Picture - Proposal - B Warranty		
Warunki		
	Aktywuj system Windows Przędz do utawień, aby adywon	
What's new?	2 Event Log	

Removing the license will result in deleting all assignments to other objects. If installations or users were assigned to the license, these associations will be removed.

Removing assigned applications

Removing the application associated with the license will result in **removal from the license properties** of the installation and other entries related to the application. To remove an associated application, remove the selected item from the list of related applications in the license properties window:

Licencja testowa						с	urrent state: 1/5	
Licencja testowa							<u>Details</u>	_
GENERAL	BASIC INFORMATION							
INSTALLATIONS		Licencja testowa					0]
DOCUMENTS	Asset type: Departament:					•	<u>C</u> onfigure	
USERS	Person responsible:	Mikuz				×	Transfer	
HISTORY	Quantity:							
ALERTS	RELATED APPLICATION	C Unlimited RELATED APPLICATIONS						
LICENSE TRACKING	Assign application f] Unassign applicatior	1			Filter Q		
	Name	*	Version	*	Company			
	7-Zip 19.00 (x64)		19		Igor Pavlov			
	Mozilla Firefox 73.0.1 (x86)	ol)	73		Mozilla			
	ADDITIONAL FIELDS							
						Filter Q		
	Name		*	Value				
	Expiration date							
	License type							
	Osoba odpowiedzialna (prz Purchase date	estarzałe)		05.03.2020				
	Supplier			05.03.2020				
	Value							

8.5.3.5 License editing properties

8.5.3.5.1 License properties

To access the License Properties window, select the Assets tab in the main program window, and then scroll down for Licenses in the Software section.

After selecting an item from the list, click the **Properties** button or double-click on the selected license:

Axence nVision 11				
		Licencja testowa		Current state: 2/5
				Details
	O Add 🛱 Delete 🗹 Properties Gr	GENERAL	BASIC INFORMATION	
	Name			
GENERAL		INSTALLATIONS	* Name: Licencja testowa	
COMPONENTS			Asset type: License	 Configure
NFRASTRUCTURE		DOCUMENTS	Departament: Szpital	*
KRYTYCZNE NOWE			Person responsible: Mikuz	× Transfer
		1 USERS		- Handrer
			Inventory number:	
Software audit		HISTORY	Quantity: 5	
		ALERTS	RELATED APPLICATIONS	
DOCUMENTS All				
		LICENSE TRACKING	Assign application Transition International Assign application	Filter Q
			Name Version Company	
			7-Zip 19.00 (x64) 19 Igor Pavlov	
			Mozilla Firefox 73.0.1 (x86 pl) 73 Mozilla	
			ADDITIONAL FIELDS	
				Filter Q
			Name Value	
			Expiration date	
			License type	
			Osoba odpowiedzialna (przestarzałe)	
			Purchase date 05.03.2020	
			Supplier Value	
			Value	
				.Clos
				Aktywuj sy

The license properties window will open, showing several tabs described in the following chapters. The General tab allows you to edit basic license information. This window includes three sections:

- Basic information basic license properties.
- Related Applications license related applications. Licenses can only be assigned to audited applications.
- Additional fields additional fields for the selected license.

In the top right corner you will find the Current status field, which informs about the current licenses usage status. The usage depends on the configuration described in the licensing methods 292 chapter:

8.5.3.5.2 Application installation

The **Properties** includes the **Installations tab** which presents information about detected application installations that are associated with the edited license:

icense								
Licencja testowa								Current state: 2/5
Liocitoja teotorita								<u>Details</u>
GENERAL	INSTALLATIONS USING	THIS LICENSE						
INSTALLATIONS Automatic license assignment Assign this license automatically to all new installations detected in the same department								
DOCUMENTS O Assign installation 🗇 Unassign installation 🗾 Installation properties O Assign serial number 🗑 Unassign serial number						erial number		
USERS	Device	Installed	Name 🔺	Vers 🔺	Company	MSI Installer	User	Serial number
USERS	Audited applications							
HISTORY	WIN10, 192.168.69.206	03.02.2020	7-Zip 19.00 (x64)	19	Igor Pa	Waiting for data	Mikuz	53412
	WIN10, 192.168.69.206	19.02.2020	Mozilla Firefox 73.0.1	73	Mozilla	Waiting for data	Mikuz	4422004

Double-clicking the selected installation or selecting the **Properties** button a window with detailed information of this installation will be displayed:

Application			_ >			
Mozilla Firefox 73.0.1 (x86 pl)						
APP Mozilla Firefox 73.0.1 (x86 pl)						
					Туре	
INSTALLATIONS	Axence nVision 11					×
Installed Device	installat	tion				
	168.69.2 INSTALLATION					
	Name:	Mozilla Firefox 73.0.1 (x86	pl)	User	. Mikuz	
	Туре:	Application		▼ License	: Licencja testowa	
	Category:	Default		Serial number	4422004	
	Descripton:					
	Company:	Mozilla		-		
	Version:					
		Yes (default)		•		
	REGISTRY					
						Filter Q
	Name	▲ Ve	rsion	Company	Path	
	Mozilla Firefox 73.0.1	(x86 pl) 73	.0.1	Mozilla	C:\Program	Files (x86)\Mozilla Firefox
	FILES					
						Filter Q
	File name	Version	Company	Product name	Original file name	Path
Default	crashreporter.exe	73.0.1	Mozilla Foundation	Firefox	crashreporter.exe	C:\Program Files (x86)\Moz
	helper.exe	73.0.1	Mozilla Corporation		terpenexeVindows	C:\Program Files (x86)\Moz
	firefox eve	73.0.1	Mozilla Corporation	Firefor Przejdź do usta	wieć aby aktywować	SYRTAD AND EIGHTSRENMAT
						Close

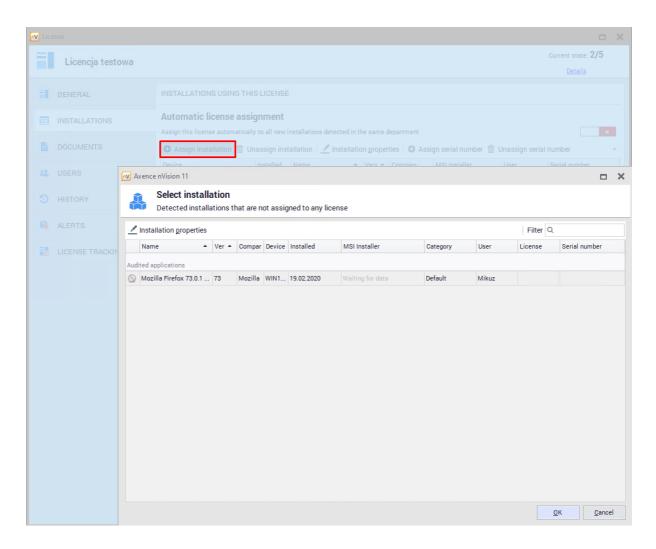
This function is described in app instances 265 chapter.

Assignment to installations

A switch is available at the top of the installation tab window that allows you to automatically assign licenses to new detected installations. Turning it on will automatically add more items to the list of installations once they are detected.

Adding instances

If the automatic license assignment is enabled, new items will appear once the installations are detected. To manually add an installation associated with the license application, click the **Assign installation** button and select an item from the list:



Removing instances

To remove the installation associated with the license application, select the item from the list and click the button **Unassign installation**.

If automatic license assignment is enabled, the deleted item may return to the installation list despite deletion.

Installation serial number

To assign a serial number to the installation, select an item from the list and then click the **Assign Serial Number** button.

Installations with the same serial number can be configured for using only one license. More information is described in <u>licensing methods</u> because the series of the same series of the series of th

8.5.3.5.3 Documents

The **Documents** tab in the **License Properties** window allows you to add, display and delete documents related to the selected license.

The documents associated with the selected are displayed in the table:

License									
Licencja testowa								Current state: 1	/5
-								<u>Details</u>	
GENERAL	DOCUMENTS RELA	ATED TO THIS LICEN	SE						
INSTALLATIONS	G Send files 📋 D	elete 👱 Properties	🖹 <u>O</u> pe	n 蔖 Save	🔏 Add r	elation 🔏	Remove relation	Filter Q	
	Date 🔻	Name 🔺	Туре	File name	Extension	File size	Description	Asset name	
DOCUMENTS	09.03.2020 14:32:52	Dostawa luty	Invoice	dev_liczn	PNG	53 kB		Licencja testowa	
	09.03.2020 14:32:24	srodkiTrwale2	Picture	srodkiTr	PNG	8 kB		Licencja testowa	
USERS	27.02.2020 14:30:50	Faktura1	Invoice	text.pdf	PDF	11 kB		Licencja testowa	
ALERTS									
LICENSE TRACKING									
									<u>C</u> lose

Adding new document

To add a new document, select **Send files** button. A new window will be displayed to add a new document:

⊳v License			□ ×
Licencja test	owa		Current state: 1/5 Details
GENERAL	DOCUMENTS RELATED TO		
INSTALLATIONS	🕒 Send files 🛱 Delete 🦯	Properties	×
DOCUMENTS	Date Name 09.03.2020 14:32:52 Dostawa		document
A USERS	09.03.2020 14:32:24 srodkiTi 27.02.2020 14:30:50 Faktura	1 Inv	
HISTORY		* File	
🚯 ALERTS			Drag files or click to select
LICENSE TRACKI		* Name	
		* Document type	
		Description	Σ.
		Department	t: No department 👻
		Relations Link documents with ass	sets
		● Add 💼 Remove	
		Related assets	
		Licencja testowa	
		Back	Add document Cancel

Displayed window has two sections: information section and section with document relations with assets.

Document Information

All required fields are marked with ' * '.

- File select or drag & drop file here,
- Name document name visible in nVision,
- Dcument Type select from available positions on the list adding new document types has been described in separate topic. 212
- Decription add-on description fields
- Department add-on fields for department selection

Relations

To link the document with license, click Add button and select license from the list.

8.5.3.5.4 Assigned users

The **Users** tab in the **License Properties** window allows you to add and remove relationships between the selected license and users.

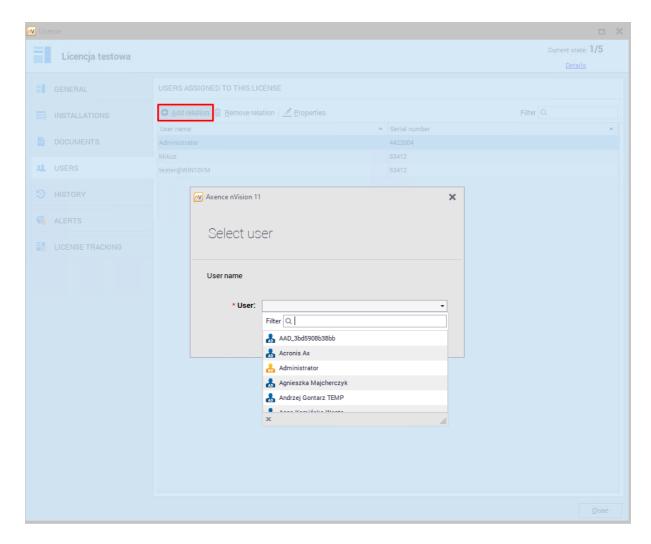
Users assigned to the selected license will be listed in the table:

NV License			— ×
Licencia testowa			Current state: 1/5
Licencja testowa			Details
GENERAL	USERS ASSIGNED TO THIS LICENSE		
INSTALLATIONS	O Add relation		Filter Q
DOCUMENTS		Serial number	•
DOCUMENTS	Administrator Mikuz	4422004 53412	
LUSERS	tester@WIN10VM	53412	
HISTORY			
🙀 ALERTS			
LICENSE TRACKING			
			<u>C</u> lose

User assignment is crucial when the application is licensed for a selected number of users. More information about license accounting configuration is described in <u>licensing methods</u> [292] chapter.

Adding relation

To add relation with user, click Add relation. A window with user selection will be displayed:



Once you select User, confirm choice by clicking Add relation button.

Removing relation

To remove the relation with the user, select relation from list and confirm choice by clicking **Delete relation** button.

8.5.3.5.5 History

License History feature allows you to collect information about license modifications. To view the history, select the **History** tab visible in the **License properties** window:

icense						
Lice	encja testowa				Current state:	1/5
					<u>Details</u>	
GENEF	RAL	LICENSE HISTORY				
	LLATIONS	G Add note ← → [1 7 🗃 🗰 🗰 01.03.20	20 - 31.03.2020 -	Filter Q	
		Date 🔻	Time 🔻	Action	Details	
DOCUN	MENTS	10.03.2020	10:38:46	Relation to document srodkiTrwale2 added by Administr		
		10.03.2020	10:38:43	Relation to document Dostawa luty added by Administra		
USERS	5	10.03.2020	10:38:41	Relation to document Faktura1 added by Administrator		
HISTO	RV	05.03.2020	10:42:09	Added Licencja	Licencja testowa	
LICENS	'S SE TRACKING					

All licenses history

To access the history of all licenses, select the **Assets** tab in the main program window, and then scroll down for **Licenses** in the **Software** section. The **History** tab will appear above the license list:

Axence nVision 11					
Main Tools About nVision					
enerate MSI nackanes Print har Assats	Application categories Manage templates Configure license type	Audit Connected devices	Printout Configure Repor 8 audit print cost	View Aferts Bithbulion Annoucements Open stad aferts HelpCesk MelpCesk Options	
Devices Users Assets	Licenses De	epartment: Any or none 👻 Assets	Documents History Eve		
Search (Ctrl+F)		1 🛗 🛗 🛱 01.03.2020 - 31.03.202	0 *		Filter Q.
All assets	Date 👻 Ti	Time • Action		Details	Belongs to
GENERAL	10.03.2020 10	0:38:46 Relation to document sro	kiTrwale2 added by Administrator		Szpital
COMPONENTS	10.03.2020 10	0:38:43 Relation to document Dos	tawa luty added by Administrator		Szpital
INFRASTRUCTURE	10.03.2020 10	0:38:41 Relation to document Fak	tura1 added by Administrator		Szpital
NOWE	10.03.2020 10	0:33:37 Removed Licencja		icencja ogólne, Użycie - 3, Osoba odpowiedzialna - Administrator, Rule_ManyInstallationsValue - 2, Rule_AutoInstallationAssignment - True, Rule_Assignment	ventToUser - True, Users - 3, Rule_Many Szpital
OTHER	10.03.2020 01	19:59:10 Migrated Licencja		icencja ogólne from (Nieprzypisane) to Szpital	Szpital
SOFTWARE	10.03.2020 0	19:59:10 Migrated Licencja		icencja ogólne from (Nieprzypisane) to Szpital	Szpital
Software audit	09.03.2020 11	1:32:52 Osoba odpowiedzialna fie	ld changed of Licencja	icencja ogólne from Mikuz to Administrator	(Nieprzypisa
Applications	09.03.2020 11	1:32:49 Osoba odpowiedzialna fie	ld changed of Licencja	icencja ogólne from Mikuz to Administrator	(Nieprzypisa
DOCUMENTS	09.03.2020 11	1:29:03 Removed Licencja		sd, Użycie = 1, Rule_ManyInstallationsValue = 1, Rule_InstallationAssignment = True, Rule_AutoInstallationAssignment = True, Rule_AssignmentToUser = Tr	ue, Users = 1, Rule_ManyInstallations = 1(Nieprzypisa
🗎 All	05.03.2020 14	4:34:05 Added Licencja		isd .	(Nieprzypisa
Agreement	05.03.2020 11	1:04:56 Nazwa field changed of Li	cencja	icencja ogólne from Licencje ogólne to Licencja ogólne	(Nieprzypisa
E Invoice	05.03.2020 11	1:02:43 Nazwa field changed of Li	cencja	icencje ogólne from Licencje mozilla to Licencje ogólne	(Nieprzypisa
License Other	05.03.2020 10	0:43:54 Added Licencja		icencje google	(Nieprzypisa
Picture	05.03.2020 10	0:43:17 Added Licencja		icencje mozilla	(Nieprzypisa
Proposal	05.03.2020 10	0:42:09 Added Licencja		Jcencja testowa	Szpital
Warranty	05.03.2020 10	0:32:14 Removed Licencja		estówkla2222, Użycie = 1, Osoba odpowiedzialna = Administrator, Rule_ManyInstallationsValue = 2, Rule_InstallationAssignment = True, Rule_AutoInstallation	onAssignment - True, Users - 6, Rule_Malzolatka
🗎 Warunki	05.03.2020 10	0:32:14 Removed Licencja		est2, Osoba odpowiedzialna = Administrator, Rule_ManyInstallationsValue = 1, Rule_InstallationAssignment = True, Rule_AutoInstallationAssignment = True	, Rule_AssignmentToUser = True, Rule_M (Nieprzypisa
	05.03.2020 10	0:32:14 Removed Licencja		irefoxxx, Użycie = 1, Rule_ManyInstallationsValue = 1, Rule_InstallationAssignment = True, Rule_AutoInstallationAssignment = True, Rule_AssignmentToUs	er = True, Rule_ManyInstallations = True, (Nieprzypisa
	05.03.2020 10	0:32:14 Removed Licencja		Aozilla Firefox 73.0.1 (x86 pl), Rule_ManyInstallationsValue = 1, Rule_InstallationAssignment = True, Rule_AssignmentToUser = True, Rule_ManyInstallations	s = True, Nazwa = Mozilla Firefox 73.0.1 (Izolatka
	05.03.2020 10	0:32:14 Removed Licencja		dozilla Firefox 73.0.1 (x86 pl), Rule_ManyInstallationsValue = 1, Rule_InstallationAssignment = True, Rule_AutoInstallationAssignment = True, Rule_Assignm	entToUser = True, Rule_ManyInstallation (Nieprzypisz
	05.03.2020 10	0:32:14 Removed Licencja		ez apki, Użycie – 1, Rule_ManyInstallationsValue – 1, Rule_InstallationAssignment – True, Rule_AutoInstallationAssignment – True, Rule_AssignmentToUse	r - True, Users - 1, Rule_ManyInstallation (Nieprzypisa
	05.03.2020 10	0:32:14 Removed Licencja		iowa testowa, Rule_ManyInstallationsValue = 1, Rule_InstallationAssignment = True, Rule_AutoInstallationAssignment = True, Rule_AssignmentToUser = True	e, Rule_ManyInstallations = True, Nazwa (Nieprzypisa
	05.03.2020 10	0:32:13 Removed Licencja		txence nVision Agent, Użycie = 1, Pule_ManyInstallationsValue = 1, Pule_InstallationAssignment = True, Pule_AutoInstallationAssignment = True, Pule_Assig	nmentToUser = True, Rule_ManyInstallat (Nieprzypisa
	05.03.2020 10	0:32:13 Removed Licencja		Google Chrome, Rule_ManyInstallationsValue = 1, Rule_InstallationAssignment = True, Rule_AutoInstallationAssignment = True, Rule_AssignmentToUser = Tr	rue, Rule_ManyInstallations = True, Custo (Nieprzypisa
	04.03.2020 11	1:58:49 Numer inwentarzowy field	I changed of Licencja	estówkla2222 from 2 to 2635	Izolatka
	04.03.2020 11	1:58:35 Osoba odpowiedzialna fic	ld changed of Licencja	estówkla2222 from empty to Administrator	Izolatka
	04.03.2020 1	1:58:30 Osoba odpowiedzialna fie	ld changed of Licencja	estówkla2222 from empty to Administrator	Izolatka
	04.03.2020 1	1:57:09 Migrated Licencja		estówkla2222 from Oddział 1 to Izolatka	Izolatka
	04.03.2020 11	1:57:09 Migrated Licencja		estówkla2222 from Oddział 1 to Izolatka	Izolatka
	04.03.2020 11	1:56:67 Migrated Licencja		estówkla2222 from (Nieprzypisane) to Oddział 1 Aktywuj syste	m Windows Oddzieł 1
	04.03.2020 11	1:56:57 Migrated Licencja			eń, aby aktywować system Winc Oddział 1
What's new?	\$			Event Log	
vices: 236 (3 Ok. 1 Warning, 193 Down)	Services: 658	(4 Ok. 548 Down) Alerts:	(Device with alerts: 1)		

History of individual licenses on the workstation

In nVision 13.5, the ability to track the license history on individual workstations has been added. To view the license history on a workstation:

- Select the **Software** tab in the settings window of the selected device.
- Click on the License history tab. This tab displays information on the licenses assigned to the software installed on a given device. The list can be sorted by the appropriate parameter, select the period for which information will be displayed, or filter the data using the search engine. The data is presented in the form of a table.

The following parameters are displayed in the table:

- Date
- Time
- Action, e.g. Manually assigned a license to an installation / Automatically assigned a license to an installation / Withdrawal of a license to an installation
- Details, e.g. data about the device on which the application using the given license is installed
- Belongs to data of the user who uses the license (the field may be blank, then information is displayed that the license is not assigned to a specific user)

Zakladka **Historia licencji** pozwala równiez na szybkie przejscie do okna konfiguracji licencji, która jest uzywana na danej stacji roboczej. Aby wyswietlic okno informacji licencji, nalezy dwukrotnie kliknac w odpowiedni zapis (rzad) w tabeli.

Zakladka Historia licencji pozwala równiez na szybkie przejscie do okna konfiguracji licencji, która jest uzywana na danej stacji roboczej. Aby wyswietlic okno informacji licencji, nalezy dwukrotnie kliknac w odpowiedni zapis (rzad) w tabeli.

8.5.3.5.6 Alerts

License alerts feature, which is located inside **License properties** tab can be created for individual licenses or for a group of licenses. Alerts allow to configure notification for the Administrator when certain conditions are met.

Alerts for selected license

To create alert for selected asset type:

- 1. Open the resource editing window, go to the Alerts tab.
- 2. Click Add button, then select Add alert for this license.
- **3.** In the **Alert rules configuration window** select event(field) for which you want to create the alert and set the date the alert is to be created. Enter alert description and click **OK**. Optionally you can also set the e-mail to get reminder messages.

n۷	Alert for	ass	et			×
			figure alert for Kość 1 this window to configure aler	description.		
	Configura	ation				
	Alert da Descript		28.03.2020		•	
	€-mail a		message to this e-mail address:	E-mail send	ding settings	
	L-mail a		20			
				<u>о</u> к	<u>C</u> ancel	

A different method of adding alerts for selected asset types is described in <u>asset types</u> 202 chapter.

Alerts for all licenses

To create alert for all licenses:

- 4. Open the resource editing window, go to the Alerts tab.
- 5. Click Add button, then select Add alert for this license.
- 6. In the Alert rules configuration window select event(field) for which you want to create the alert and set the date the alert is to be created. Enter alert description and click OK. Optionally you can also set the e-mail to get reminder messages.

n	V Alerts	for field						×
	4	Configure alerts Use this window to c		-		scription.		
	Configu	uration						
	Auton	natically create alerts	2 ‡	week(s)	-	before time	•	
	for fie	ld					•	
	Descr	iption:						
	Se	end the message to this e	-mail add	ress:		E-mail send	ing settings	
	E-mai	laddress						
						<u>о</u> к	<u>C</u> ancel	

To know more about alerts, see <u>alerting</u> [588] chapter.

8.5.3.5.7 Licensing methods

8.5.3.5.7.1 Rules

The **Rules** tab located under the **License tracking window** gives you extensive options for license accounting configuration. The configuration will affect how many licenses and how they will be downloaded.

NV License				□ ×
Licencja testowa				Current state: 1/5
				Details
GENERAL	LICENSE TRACKING	RULES		
INSTALLATIONS	Assignment to Assignment to an inst	installations allation will use up one license.		
DOCUMENTS	Assignment to			
USERS	-	will use up one license. ations of one user		×
HISTORY		ations that when assigned to one user w	ill use up only one license:	~
🙀 ALERTS	1 Serial number			
LICENSE TRACKING		s that have the same serial number ass	igned will use up only one license.	×
RULES		tions on one device ne application on one device will use up	only one license.	×
SERIAL NUMBERS	CURRENT LICENSE	S		
	Usage:: 1/5		F	ilter Q
	License usage	Tracking rule	Details	
	1	Assignment to installation	7-Zip 19.00 (x64), Version 19, Mikuz, Serial number 53412,	WIN10, 192.168.69.206
				Close

Below the licensing policy settings you can see a list of currently used licenses with description. Individual options and use cases are explained in the subsections of this chapter.

8.5.3.5.7.2 Serial numbers

Serial numbers tab allows you to define serial numbers compatible with the edited license. Serial numbers can be assigned to users using licenses or for installations assigned to licenses.

License			•
Licencja testowa			Current state: 1/5
			<u>Details</u>
GENERAL	SERIAL NUMBERS OF THIS LICENSE		
INSTALLATIONS	❶ Add		Filter Q
	Serial number	▲ Details	
DOCUMENTS	4422004	Used by 1 user(s)	
	53412	Used by 2 installation(s), 1 user(s)	
L USERS	54541		
_	6423		
HISTORY			
ALERTS			
LICENSE TRACKING			
RULES			
SERIAL NUMBERS			
			Close

To assign a serial number to a user, go to the **Users** tab in the **License Properties** window and then indicate the serial number by adding or editing the associated user.

To assign a serial number to the installation, go to the **Installations** tab in the **License Properties** window, then select an item from the list and click the **Assign Serial Number** button.

8.5.3.5.7.3 License accounting methods

The **License tracking** tab in the **License properties** window gives you extensive options for configuring the license accounting method. The configuration will affect how many licenses and how they will be downloaded.

N Licer	nse				- ×
	Licencja testowa				Current state: 1/5
	Liochoju teotomu				<u>Details</u>
- 88	GENERAL	LICENSE TRACKING	RULES		
	INSTALLATIONS	Assignment to in Assignment to an insta	nstallations llation will use up one license.		
	DOCUMENTS	Assignment to u			
-	USERS	Assignment to a user w Multiple installa	rill use up one license. tions of one user		× •
9	HISTORY		ions that when assigned to one user w	ill use up only one license:	
9	ALERTS	1 Serial number			
	LICENSE TRACKING		that have the same serial number ass	igned will use up only one license.	×
	RULES		ions on one device e application on one device will use up	only one license.	×
	SERIAL NUMBERS	CURRENT LICENSES			
		Usage:: 1/5			Filter Q
		License usage	Tracking rule	Details	
		1	Assignment to installation	7-Zip 19.00 (x64), Version 19, Mikuz, Serial number 534	12, WIN10, 192.168.69.206
					<u>C</u> lose

License can be accounted either to an installation or user:

• Assignment to installation

Turning this option on will affect the installation of the application being associated with the license is detected on the host and assigned to the license (automatically or manually). Then one license from predefined pool in the license properties will be used.

V License				_ >
Licencja testowa				Current state: 2/5
				<u>Details</u>
GENERAL	LICENSE TRACKIN	IG RULES		
INSTALLATIONS	Assignment to an in	D installations stallation will use up one license.		 Image: Control of the second se
DOCUMENTS	Assignment to	users		
USERS	Assignment to a use	er will use up one license.		×
VSER5	Multiple insta	llations of one user		
HISTORY	The number of insta	llations that when assigned to one user w	ill use up only one license:	×
ALERTS	1	\$		
ALLING	Serial number			
LICENSE TRACKING		ers that have the same serial number ass	igned will use up only one license.	×
RULES		cations on one device	only one license.	×
SERIAL NUMBERS	CURRENT LICENS	ES		
	Usage:: 2/5			Filter Q
	License usage	Tracking rule	Details	
	1	Assignment to installation	7-Zip 19.00 (x64), Version 19, Mikuz, Serial number	
	2	Assignment to installation	Mozilla Firefox 73.0.1 (x86 pl), Version 73, Mikuz, W	VIN10, 192.168.69.206
				Close
				<u>0</u> 1000

• Assignment to user

Turning this option on means, that <u>user assignment to license</u> will result in using one license from the pool of specified licenses

nV License				□ ×
Licencja testowa				Current state: 3/5
				<u>Details</u>
GENERAL	LICENSE TRACKIN	G RULES		
INSTALLATIONS	Assignment to Assignment to an ins	installations tallation will use up one license.		×
DOCUMENTS	Assignment to	users		
USERS		ations of one user		
	The number of install	ations that when assigned to one us	er will use up only one license:	×
🙀 ALERTS	1 Serial number	\$		
LICENSE TRACKING			assigned will use up only one license.	×
RULES		ations on one device one application on one device will us	e up only one license.	×
SERIAL NUMBERS	CURRENT LICENSE	ES		
	Usage:: 3/5			Filter Q
	License usage	Tracking rule	Details	
	1	Assignment to user	Administrator, Serial number 442	22004
	2	Assignment to user	Mikuz, Serial number 53412	
	3	Assignment to user	tester@WIN10VM, Serial number	: 53412
				Glose

See the following chapters for more information about other license accounting possibilities

8.5.3.5.7.4 Multiple user installations

Modification of described settings can be found in the **License tracking** tab in the **License properties** window. The following configuration allows you to configure the license in such a way that several installations assigned to the same user will result in the use of one license from the pool specified in the license properties.

To assign a user to an installation, use the **Installations** tab in the **License Properties** window. After doubleclicking the selected item, assign the selected person to the installation:

-							
STALLATION							
Name:	7-Zip 19.00 (x64)			User	: Mikuz		
Туре:	Application		•	License	: Licencja tes	owa	
Category:	Default			Serial number	53412		
Descripton:							
beschpton.							
Company:	Igor Pavlov		•				
Version:	19						
Audited:	Yes (default)		•				
EGISTRY							
EGISTRY							
EGISTRY						Filter	Q
	•	Version	Company			Filter Path	Q
Name		Version 19.00					
Name			Company			Path	
Name			Company			Path	
lame -Zip 19.00 (x64)			Company			Path	
Vame -Zip 19.00 (x64)			Company			Path C:\Program Files\	\7-Zip\
lame -Zip 19.00 (x64)	•		Company			Path	\7-Zip\
lame Zip 19.00 (x64) ILES	Version		Company			Path C:\Program Files\ Filter	\7-Zip\
lame Zip 19.00 (x64) ILES ile name		19.00	Company Igor Pavlo	ame (Path C:\Program Files\ Filter re P	(7-Zip)
REGISTRY Name -Zip 19.00 (x64) -TILES -File name 'zG.exe 'z.exe	Version	19.00 Company	Company Igor Pavlo	ame G	Driginal file nar	Path C:\Program Files\ Filter ne P C:	r Q. ath

Example: applications assigned to user Mikuz:

Licencja testowa									Current state: 2/ <u>Details</u>
GENERAL	INSTALLATIONS USING	THIS LICENSE							
INSTALLATIONS	Automatic license a		nstallations detected in t	he same (department				
DOCUMENTS	Assign installation						l number 🖞	🖞 Unassign se	
USERS	Device	Installed	Name 🔺	Vers 🔺	Company	MSI In:	taller	User	Serial number
ooeno	Audited applications								
HISTORY	WIN10, 192.168.69.206	03.02.2020	7-Zip 19.00 (x64)	19	Igor Pa	🙆 Waiting	for data	Mikuz	53412
	WIN10, 192.168.69.206	19.02.2020	Mozilla Firefox 73.0.1	. 73	Mozilla	💿 Waiting	for data	Mikuz	4422004

License **Tracking / Rules** tab shows active options for **assigning to installation** and multiple (**in this case, 2**) single user installations. For this purpose, 2 licenses are used from the pool:

Licencja testowa				
				Current state: 1/5
				Details
GENERAL	LICENSE TRACKIN	IG RULES		
INSTALLATIONS	Assignment to an in:	D installations stallation will use up one license.		- × -
DOCUMENTS	Assignment to	users		
USERS	Assignment to a use	er will use up one license.		×
- USENS	Multiple instal	llations of one user		
HISTORY		llations that when assigned to one user w	ill use up only one license:	~
ALERTS	2	÷		
	Serial number	ers that have the same serial number ass	inned will use up only one license	×
LICENSE TRACKING			igned will use up only one neerise.	
RULES		cations on one device one application on one device will use up	only one license.	×
SERIAL NUMBERS	CURRENT LICENS	ES		
	Usage:: 1/5			Filter Q
	License usage	Tracking rule	Details	
	1	Assignment to installation	7-Zip 19.00 (x64), Version 19, Administrator, Serial n	
		Assignment to installation	Mozilla Firefox 73.0.1 (x86 pl), Version 73, Administr	rator, Serial number 53412, WIN10, 1

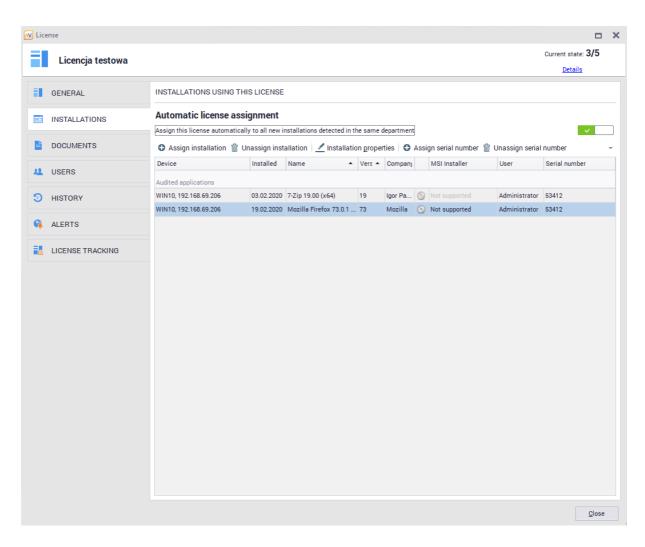
Changing the number of installations assigned to single user, to 3rd one only one license will be used:

8.5.3.5.7.5 Serial numbers assignment

Modification of described settings can be found in the License tracking tab in the License properties window.

The following configuration allows you to configure the licenses to use only **one license** from the selected pool in license properties for the **installations and users with the same serial number.**

Defining and assigning serial numbers has been described in <u>serial numbers</u> and <u>serial numbers</u> chapter. To assign a serial number to user, use the Installations tab in the **License Properties** window. After doubleclicking the selected item, assign the selected person to the installation:



To assign a serial number to installation, go to **Installations** tab, selected item and click **Assign serial number**. **License Tracking / Rules** tab allows you to set rules for:

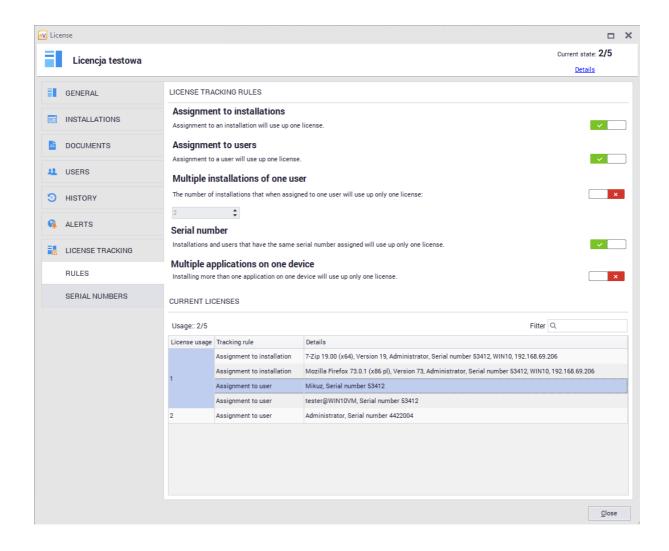
• installations with assigned same serial number

N Lice	nse					×
	Licencja testowa				Current state: 1/5	
	,				<u>Details</u>	
- 11	GENERAL	LICENSE TRA	CKING RULES			
	INSTALLATIONS	-	nt to installations an installation will use up one	license.	× 1	
B	DOCUMENTS	-	nt to users a user will use up one license.		×	.
22	USERS		stallations of one use		×	•
Θ	HISTORY			ed to one user will use up only one license:	×	
Q	ALERTS	2 Serial num	¢ ber			
	LICENSE TRACKING			erial number assigned will use up only one license.	× [
	RULES		plications on one deve than one application on one d	/ice evice will use up only one license.	×	
	SERIAL NUMBERS	CURRENT LIC	CENSES			
		Usage:: 1/5		Filter	Q	
		License usage	Tracking rule	Details		
		1	Assignment to installation	7-Zip 19.00 (x64), Version 19, Administrator, Serial number 53412, WIN10, 192.168.69	.206	
			Assignment to installation	Mozilla Firefox 73.0.1 (x86 pl), Version 73, Administrator, Serial number 53412, WIN1	0, 192.168.69.206	
					Close	

• license users with assigned same serial number

N License					_ ×
	Licencja testowa				Current state: 2/5
	Licencja testowa				Details
GE	ENERAL	LICENSE TRA	CKING RULES		
ins	ISTALLATIONS	-	nt to installations an installation will use up one	license.	×
🗎 DO	DCUMENTS	-	nt to users		
😃 US	SERS		a user will use up one license.		×
Э ніз	ISTORY	The number of	installations that when assign	ed to one user will use up only one license:	×
🖗 ALI	LERTS	2 Serial num	¢ ber		
🛃 LIC	CENSE TRACKING	Installations a	nd users that have the same se	rial number assigned will use up only one license.	 ✓
RU	ULES		pplications on one dev than one application on one de	ice evice will use up only one license.	×
SE	ERIAL NUMBERS	CURRENT LIC	CENSES		
		Usage:: 2/5			Filter Q,
		License usage	Tracking rule	Details	
		1	Assignment to user	Administrator, Serial number 4422004	
		2	Assignment to user	Mikuz, Serial number 53412	
		2	Assignment to user	tester@WIN10VM, Serial number 53412	

• installations and license users with assigned same serial numbers



8.5.3.5.7.6 Multiple applications on device

Modification of described settings can be found in the License tracking tab in the License properties window. The following configuration allows you to configure the licenses to use only one license from the selected pool in license properties for many installations of different applications (associated with the license) within one device.

Related applications are shown in the License Properties / General window

N Lice	nse								×
	Licencja testowa						Curr	rent state: 2/5	i
	Licencja testowa							Details	
1	GENERAL	BASIC INFORMATION							
	INSTALLATIONS		Licencja testowa License				•	<u>C</u> onfigure	
	DOCUMENTS		Szpital				•	<u></u>	
44	USERS	Person responsible: Inventory number:	Mikuz				×	Transfer	
ອ	HISTORY	Quantity:							
9	ALERTS	RELATED APPLICATION	Unlimited						
Ľ	LICENSE TRACKING	Assign application	j Unassign application			Filte	er Q		
		Name	*	Version	*	Company			
		7-Zip 19.00 (x64)		19		Igor Pavlov			
		Mozilla Firefox 73.0.1 (x86 p	l)	73		Mozilla			
	l	ADDITIONAL FIELDS							
						Filte	er Q		
		Name		*	Value				
		Expiration date							
		License type Osoba odpowiedzialna (prze	actoração)						
		Purchase date	estalzare)		05.03.2020				
		Supplier							
		Value							
								<u>C</u> lo	se

License Tracking / Rules tab allows you need to enable Assignment to installations and Multiple applications on one device options. Linked applications installed within same device will use one license only:

GENER	ncja testowa				Current state: 1/5
GENER					<u>Details</u>
	AL	LICENSE TRA	CKING RULES		
INSTAL	LATIONS	-	nt to installations an installation will use up one	license.	~
DOCUM	IENTS	Assignme			
USERS			a user will use up one license stallations of one use		
HISTOF	γY	-	installations that when assign	ned to one user will use up only one license:	
ALERT	S	2 Serial num	¢ ber		
LICENS	ETRACKING			erial number assigned will use up only one license.	
RULES			plications on one development of the one application on one development of the one application on one development of the one of the	VICE levice will use up only one license.	×
SERIAL	NUMBERS	CURRENT LIC	ENSES		
		Usage:: 1/5		Filter	2
		License usage	Tracking rule	Details	
		1	Assignment to installation	7-Zip 19.00 (x64), Version 19, Administrator, Serial number 53412, WIN10, 192.168.69.20	06
		'	Assignment to installation	Mozilla Firefox 73.0.1 (x86 pl), Version 73, Administrator, Serial number 53412, WIN10,	192.168.69.206

8.5.4 Software audit

To go to the **software audit**, enter **Assets** tab visible in the main program window, then scroll for **Software audit** in the **Software** section:

Main Tools About nVision												
anarata Mélanakanan Drint bar Anarata		device permissions trustee permissions Printout Configure audit print cost	eports View Alerts Dis	ribution A asks	nnouncements HelpDesk	Open HelpDesk	Open SmartTime	ф _о Options				
Devices Users Assets	Application audit Department	Any or none - Application audit Audit ar	chive									
(Search (Ctrl+F)	Properties Show 💿 Application	ons and OS-es 🔹 License compliance	All		•						Filter Q	
All assets	License compliance	Name	 License type 	 Used 	Quantity	Users	Application nam	e	Version	Company	Template type	Installation
GENERAL	Unknown applications											
COMPONENTS INFRASTRUCTURE	A New software has been found	ESET Endpoint Security	<unknown></unknown>				ESET Endpoint S	scurity	7	ESET, spol. s r.o.	Application	1
KRYTYCZNE	A New software has been found	GOG Galaxy	«unknown»				GOG Galaxy			GDG.com	S Application	1
NOWE	A New software has been found	Help Manual 7	«unknown»				Help & Manual 7		7	EC Software	S Application	1
OTHER	A New software has been found	HelpXplain by EC Software	<unknown></unknown>				HelpXplain by EC	Software	1	EC Software	Application	1
SOFTWARE	A New software has been found	Microsoft Edge	<unknown></unknown>				Microsoft Edge		80	Microsoft Corporation	Application	1
Applications	A New software has been found	Microsoft Edge Update	<unknown></unknown>				Microsoft Edge (Ipdate	1		Application	1
Licenses	A New software has been found	Microsoft Visual C++ 2015 Redistributable (x64) -	<unknown></unknown>				Microsoft Visual	C++ 2015 Redistributable (x64) -	14	Microsoft Corporation	S Application	1
DOCUMENTS	A New software has been found	Microsoft Visual C++ 2015 Redistributable (x86) -	«unknown»				Microsoft Visual	C++ 2015 Redistributable (x86) -	14	Microsoft Corporation	S Application	7
ali 📔	A New software has been found	Mozilla Maintenance Service	«unknown»				Mozilla Mainten	ince Service	68	Mozilla	S Application	1
Agreement	A New software has been found	Racket v7.5 (x86_64)	<unknown></unknown>				Racket v7.5 (x86	.64)	7	Racket	Application	1
License	A New software has been found	Skype	<unknown></unknown>				Skype		8	Skype Technologies S.A.	Application	1
Citerse	A New software has been found	Sublime Text 3	<unknown></unknown>				Sublime Text 3		3	Sublime HQ Pty Ltd	Application	1
Picture	Audited applications											
Proposal	O Deficit (2 license(s) missing)	Axence nVision	license not assigned>				Axence nVision		11.0	Axence Inc.	Application	2
Warranty	Deficit (1 license(s) missing)	Axence nVision Agent	license not assigned>				Axence rivision		2	Axence	Application	1
📔 Warunki	Deficit (1 license(s) missing)	Google Chrome	clicense not assigned>				Google Chrome	Agent	80	Google LLC	Application	
	Bench (Theense(s) missing)	Google Chrome	cilcense not assigneds				7-Zip 19.00 (x64		19	Igor Pavlov	Application	
	Redundancy (4 spare license(s))	Licencja testowa	license type empty>	1	5	3	Mozilla Firefox		73	Mozilla	Application	1
	O Deficit (2 license(s) missing)	Windows 10 Pro	license not assigned-				Windows 10 Pro	3.0.1 (X00 p)	10	Microsoft Corporation	Operating System	2
	-	WINDOWS TO PTO	circense not assigned				WINDOWS TO PTO		10	microsoft corporation	operating system	2
	Not audited applications											
	n/a	Axence nVision Agent	n/a				Axence nVision	Agent	2	Axence	Application	1
	n/a	Brave	n/a				Brave		80	Brave Software Inc	Application	1
	n/a	Internet Explorer	n/a				Internet Explore		11	Microsoft Corporation	Application	2
	n/a	LibreOffice	n/a				LibreOffice		6	The Document Foundation	Application	1
	n/a	Mozilla Firefox 74.0 (x64 pl)	n/a				Mozilla Firefox		74	Mozilla	Application	1
	n/a	Mozilla Maintenance Service	n/a				Mozilla Mainter	ance Service	74	Mozilla	Application	1
										ktywuj system Wind rzejdź do ustawień, aby ak		
What's new?	\$					Event Lo	g					

The **Software Inventory Audit** window contains a list of applications detected on the monitored computers. If the programs are recognized, the type of license and the number of licenses held appears in comparison with the number of licenses used (Installations column), i.e. the number of workstations on which a given application is installed and associated with a given license.

Devices with installed applications and licenses

Select an item from the list and go to its properties to view the application properties.

In the **Installations** tab you can view the devices where the application is installed. If the application is audited, it is possible to exclude its selected installation from the audit. - simply change the value of the **Audited** field in the **installation properties** window:

💼 Installa	tion						
VSTALLATION							
Name:	Mozilla Firefox 73.0.1 ()	x86 pl)		User: Mikuz			
Туре:	Application		• L	icense: Licencja	testowa		
Category:	Default		Serial r	number: 4422004			
Descripton:							
becompton.							
Company:	Mozilla		*				
Version:	73						
Audited:	Yes (default)		-				
	Yes (default) Yes (default) Exclude from audit		-				
	Yes (default)		-				
	Yes (default)		•			Filter Q	
REGISTRY	Yes (default)	Version	Company		Path	Filter Q	
REGISTRY Name	Yes (default) Exclude from audit	Version 73.0.1				Filter Q Files (x86)\Mozilla Firef	Fox
REGISTRY Name	Yes (default) Exclude from audit		Company				Fox
REGISTRY	Yes (default) Exclude from audit		Company				fox
REGISTRY Name Mozilla Firefox 73.0.1	Yes (default) Exclude from audit		Company				fox
REGISTRY Name Mozilla Firefox 73.0.1	Yes (default) Exclude from audit		Company				fox
REGISTRY Name Mozilla Firefox 73.0.1 FILES	Yes (default) Exclude from audit		Company	Original file	C:\Program	h Files (x86)\Mozilla Firef	fox
REGISTRY Name Mozilla Firefox 73.0.1 FILES File name	Yes (default) Exclude from audit (x86 pl)	73.0.1	Company Mozilla	Original file crashreporte	C:\Program	Files (x86)\Mozilla Firef	
Audited: REGISTRY Name Mozilla Firefox 73.0.1 FILES File name crashreporter.exe	Yes (default) Exclude from audit (x86 pl) Version	73.0.1	Company Mozilla Product name	-	C:\Program	Files (x86)\Mozilla Firef	

In the **License** tab, you can add, remove and edit licenses for each application. More information is described in <u>users and licenses</u> chapter.

Audit archive

You can view the changes in the installed software for the selected period.

8.6 Data import

8.6.1 Data import from CSV

You can import asset data to nVision. The condition for successful data import is to place them in a csv file and divide the data so that one file contains assets of one type. You can manage these files in Asset settings / Data sources window.

To add a data file for import in nVision:

- 1. Select the option Assets settings from the main toolbar and then go to the Data sources tab.
- 2. Click the ¹ Import from CSV file button.
- 3. Enter Name, data Description and Asset type to be assigned to this data.
- 4. In the CSV Options, indicate the path to the data file, specify the separator and the occurrence of headers. The file preview will be presented below

5. Indicate in Import configuration tab which column (or set of columns) of the source identifies the resource (is unique for a given resource).

6. Associate the CSV source columns with target field names. If necessary, go to Asset Type (by clicking Configure button) and add to it additional fields corresponding with selected columns.

7. To test the ability to import data, click Test button. then click OK.

The added file will be shown at the list of data sources. Now you can easily import data from this file eg. if its been changed (without the need to reset all the settings):

NV Axe	nce nVision 11				×
J.	Asset settings				
	ASSET TYPES	O Import from CSV file ☐ Delete ∠ Properties ▶ Import -	Filter	2	
-	ASSET TYPE FOLDERS	Data source name Asset type: Keyboard	Description	Last import	
	ASSET STATUSES	TEST	TEST	20.01.2020 15:33:39	
1	ASSET DETECTION				
B	GLOBAL FIELDS				
ł	ACTION TEMPLATES				
5	DATA SOURCES				
ō	DOCUMENT TYPES				
10	PROTOCOL SETTINGS				
				Clos	e

From the data source management window you can add data sources, delete them, change their properties and import data from them, as well as import data from Agents and view import logs.

8.6.2 Inventory scan import

The inventory scanner is a portable tool that allows manual collection and download of device data without Agent installation. It can also be used if the scanned computer cannot be connected to the network.

To manually import inventory scans, follow these steps:

- 1. Prepare executable file from inventory scanner
- a. In the Tools tab select the Inventory scanner executable option.
- b. Select the location where the inventory scanner files are to be created (e.g. flash drive).
- c. Set the inventory scanner profile, i.e. what information will be collected by the scanner. You can select from the list an existing profile, edit an existing profile or create a new one.
- d. Click the Save Scanner Files button.

Prepare the inventory scanner executable		×
Inventory scanner profile: Default profile Manage profile	s	
After clicking "Save scanner files" two files: nVision_InventoryScanner.exe and nVision_InventoryScanner.configuration will be created in the specified directory - please, be particular about them when you copy the scanner to a different location.		
Save inventory scanner executable to:		
Lysk lokalny (C:)	~	
Lysk lokalny (C:)	~	
Pliki programów (x86)		
Axence		
nVision		
Agents		
Backgrounds		
Backups		
Content		
Database		
Database_NetTools		
Downloaded Webpages		
Fonts		
Languages	۷.	
<u>N</u> ew folder		
Save scanner files	cel	

- 2. Perform inventory scan. If you copy the scanner to another location, make sure both scanner files are copied (nVision_InventoryScanner.exe and nVision_InventoryScanner.config). Run the inventory scanner executable file (nVision_InventoryScanner.exe) on the computer to be scanned to start the scanning process.
- 3. Data import
 - a. After scanning, copy the created folders (Data and Logs) to the location that will be visible from the nVision console.
 - b. In the window of importing inventory scans (Import inventory scans in the Tools tab) select the folder where the scans are located (i.e. the Data folder previously copied).

Axence nVision 11							
Main Tools About nVision							
Adda Adda Adda Show duplicate a counter for devices	Run netTools Discover new network Tools Discover	SINIP Trap Syslog MIB Server Server Compiler SINIP and Syslog	Uninstall Import Propag	ate new Manage Inventory scanne address Agent profiles	Import user activity data from nVision SmartTime	Filters for smart maps Options	Manage
Devices Users Assets							
Q Search (Ctrl+F)	W Import inventory scans					• ×	
All devices (Atlas) NETWORKS	Use this window Inventory Scanne	to import manual scans of workstations. Use the	ink at the bottom of window to locate t	he			
CUSTOM MAPS	Select directory containing coll-	ected data:					
DEPARTMENTS	Name	IP Information	Collected Version	Action Devic	e in nVision	Import	
SAARTMAPS			<no data="" display»<="" th="" to=""><th></th><th></th><th></th><th></th></no>				
		anner to specified folder (e.g. pendrive).			Import data	Glose	

- c. Check, if Import field is selected for scanned device, then click Import data buton.
- d. If the data import has been successfully completed, the message is shown (Import successful).

8.7 MSI Package manager

Axence nVision Agent also enables management of software installations on monitored computers through:

- Installing required company programs
- Uninstalling unauthorized programs

Software installation management is based on a repository of MSI package files. An MSI package is an object created based on an installation file with the extension MSI, which is compatible with Windows Installer (https://en.wikipedia.org/wiki/Windows_Installer). Installation packages are considered unique when the properties of the MSI file differ in terms of product code (productCode), product version (productVersion), and product language (productLanguage). The Agent's functionality also allows for installing updates but does not permit downgrading applications.

Agent Operation Scheme:

1. The Agent installs packages only after downloading all the ones configured for it, taking into account priorities specified in the package properties.

2. Agent action permits installation only if the application is either not installed at all or is installed in an older version than what the Agent received (update). The Agent periodically checks if all applications from the packages assigned to it are installed. If any are missing, it initiates a reinstallation. This process occurs independently of the option to scan information about software in the Agent's profile.

The list of applications (packages) for uninstallation is generated based on information collected by Agents through monitoring the registry entries of installed applications and reading information about installations from MSI packages. The Agent periodically checks if an application marked for removal has been installed; if detected, it proceeds with its uninstallation.

To manage MSI packages and software presets through the MSI packages manager:

1. Select "MSI package manager" from the main program menu.

2. In the "Manage MSI Packages" window, click the "Add" button.

MSI Packages	Software p	presets	Software repository	Installation log	Preset auc	dit			
🕽 Add 👱 Edit	Delete	🕝 Dov	wnload					Filter Q	
Name		Product	t name 🔺	Version	Ma	lanufacturer	Language	Priority	
7-Zip 22.01 (x64	edition)	7-Zip 22	2.01 (x64 edition)	22.01.00.0	Igo	or Pavlov	en	Default	
Google Chrome		Google	Chrome	69.90.16562	Go	oogle LLC	en	Default	
LibreOffice 7.5.0	.3 SDK	LibreOf	fice 7.5.0.3 SDK	7.5.0.3	Th	ne Document Foundation	en	Default	
Mozilla Firefox 1	07.0 x64 pl	Mozilla	Firefox 107.0 x64 pl	107.0.0.0	Mo	lozilla	-	Default	
					-	1			
PDFA		PDFA		3.0.0	Fo	xxit Software Inc.	en	Default	

3. In the dialog box, specify the MSI installer file.

4. In the package addition window, set the installation priority (considered when installing multiple packages within one group) and additional launch parameters (copied from the MSI installer's manufacturer's page). Click "Save."

nV .	Axence n\	/ision 14				×
	Add	MSI packag	e			
	Name:	7-Zip 22.01 (x64 edit	ion)			
	File: C	:\Users\Tester IRON	MAN\Downloads\7z2201-x64.msi		0	
		Product name: 7-Zip 22 . Product version: 22.01 .(Product language: en Manufacturer: Igor Pavl	0.0			
	Priority:	Default	•			
	Run para	ameters: msiexec	/i "7z2201-x64.msi" /qn ALLUSERS=1		۲	
				<u>S</u> ave	<u>C</u> ancel	

NOTE! Removing launch parameters or entering incorrect launch parameters can result in the MSI package not being correctly installed on the workstation.

5. Go to the "Software presets" tab, click the "Add" button. Create a new group by specifying:

- Preset name,
- Devices on which the designated applications should be installed or uninstalled,

- Packages to be installed (created in step 4) or applications to be uninstalled (based on information collected by Agents through monitoring the registry entries of installed applications). Click "Save." The task execution status on devices is presented in the next tab of the "Manage MSI Packages" window, i.e., "Preset audit".

	ence nVision 14						
E	dit softw	are prese	et				
Na	ame: Starter s	oftware preset					
De	evices:						
C	Add 🛗 Remo	ve					
Na	ame			► IP			
DE	SKTOP-1COSIFI			172.26.130.178			
F	Packages to inst	all (3) Applica	tions to uninst	all (0)			
	Packages to inst DAdd 💼 Remo		tions to uninst	all (0)			
¢	_			all (0) Manufacturer	Language	Prio	rity
¢	🕽 Add 💼 Remo	Ve Product name	Version		Language	Prio	
*	Add 💼 Remo	Ve Product name A 7-Zip 22.01 (x64.	Version 22.01.00.0	Manufacturer	en		ult
*	Add 🛗 Remo Name 7-Zip 22.01 (x64	Ve Product name A 7-Zip 22.01 (x64.	Version 22.01.00.0	Manufacturer Igor Pavlov	en en	Defa	ault
*	Add 🛱 Remo Name 7-Zip 22.01 (x64 LibreOffice 7.5	Product name A 7-Zip 22.01 (x64. LibreOffice 7.5	Version 22.01.00.0 . 7.5.0.3	Manufacturer Igor Pavlov The Document F	en en	Defa Defa	ault

Both packages and software presets can be edited by double-clicking or selecting and clicking the "Edit" button. There is also an option to change the priority and download the MSI package in the "Preset audit" tab, where you can check the progress of the installation.

Use thi	is window to manag	e the software prese	is and the software	repository						
VISI Packages	Software presets	Software repository	y Installation log	Preset audit						
Devices:				Details for DE	SKTOP-1CO	SIFI, 172.26	.130.178			
Name 🔺	• IP	Installations -	Uninstallations	Packages to i	install:					
ESKTOP-1COSIFI	172.26.130.178	0/3	3 0 / 0	* Status	Name	Version	Manufactu	Language	Priority	Software p.
				Waiting for	7-Zip 22.01	22.01.00.0	Igor Pavlov	en	Default	Starter sof.
				Waiting for	LibreOffice		The Docum	en	Default	Starter sof
				Waiting for	PDFA	3.0.0	Foxit Softw	en	Default	Starter sof.
				Applications t	to uninstall:					
				Applications t Status	to uninstall: Nar	me	▲ Manufi	acturer	Softwa	re preset

8.8 Inventory events

If the removal or change of any asset or application is detected by the agent, nVision does not decide to remove it from the list or change its properties. Information of such an event is presented in the **Events** tab. An example of the event list is shown below.

W Axence nVision 12					- @ ×
The second secon	cation categories get remainters gue license type DataGuard	View Alefs view Servers rts and alerts View HelpDeak View Provide Provided Provide	Open AdminCenter		^
Devices Users Assets	All assets Department: Any or nont Assets History Audit Events C Accept all events O Iqnore all events D Properties			Fitter Q.	
All assets	Asset name	▲ Belongs to	Date	 Asset type 	
PODSTAWOWE PODZESPOŁY	Generic Non-PnP Monitor Removal of this asset has been detected accept migrate ignore	WinTest, 192.168.69.206 (WIN10)	09.12.2020 17:44:24	Display	

Review the displayed events and perform one of the available actions:

- **Ignore** does not change the asset status and the asset is still allocated in the same location; this action is advisable for devices periodically connected and disconnected, e.g. a mouse connected to a laptop.
- **Move** describes the situation when the given device is disconnected from the computer and moved to another location. e.g. a display is reconnected to another computer; specify the new allocation.
- Accept means deleting the asset it is disposed of and will not appear in the asset list anymore.

If there are multiple similar events, you do not have to consider them separately. Simply use the button to **Accept** or **Ignore** all events. Asset properties can also be managed here.

Part U

9 DataGuard module

9.1 Introduction

Axence nVision® DataGuard allows the management of data access rights and the protection of data. In particular, the application of data protection improves corporate security, prevents against infecting the corporate network with viruses distributed on flash drives and protects against data leaks.

Blocking ports and media

All devices and media considered as logical disks can be blocked, including:

- flash drives,
- portable hard disk drives,
- Wi-Fi, Bluetooth, IrDA,
- photo cameras and portable MP3 players, working in *multimedia device* mode WPD,
- floppy disk drives,
- SD slots.

Managing access rights

Managing access rights can take place on different levels (atlas, map, Active Directory users, workstations). On each level, you can grant the appropriate rights related to the use of media and the rights to audit, read, write and execute files to specific users. Managing access rights by means of nVision facilitates the configuration of computer groups, and the authorization of corporate flash drives and hard disk drives and blocking private **devices**. For more information, see <u>Access rights</u> [316].

9.2 Access rights

9.2.1 Access rights – introduction

Implementation

There are two possible scenarios for implementing DataGuard module in the given system:

- 1. **Blocking all**/most rights on the atlas level, and then allowing some of these down the hierarchy tree.
- 2. Allowing for all actions on the atlas level and blocking on the level of maps and for specific workstations.

Choosing one of the above strategies depends on the nature of the system, where the data protection is implemented.

Access rights can be assigned for the following categories:

- **Audit** determines whether access to the given device should be logged. Logging includes information on file renaming, creating, copying or deleting and access with writing.
- **Reading** ability to read information from the specified medium.
- Writing ability to write information on the specified medium.

• **Executing** – ability to run programs located on the specified medium.

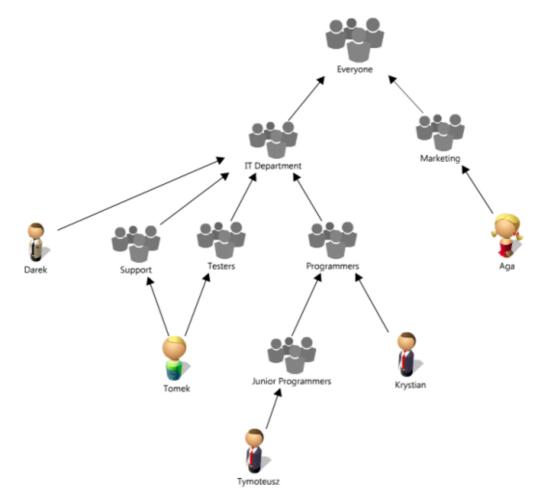
Each category (reading, writing, executing) can have one of two states: **allow** or **block**. An audit can be **enabled** or **disabled**. Devices without a file system can have only one access right category. It has the value of **enabled**, if the user is allowed to use the device, and **disabled**, if the opposite is true.

Axence nVision 11									
Add a Add a Add a Show duplicate Create a counter user group device devices for devices Users and devices									
Devices Users Assets	All users Use A	xence nVision 11							
Q Search (Ctrl+F)		Monitoring properties	: Atlas						
Hierarchy GROUPS Avence nVision	Name Axence nVision Av	DATAGUARD	MONITO	RING PROFILE AND	SETTINGS				
> 🍪 axence.local	Super Administrat	BLOCKADES		oring		Monitor			
SMART GROUPS	Axence,local\/	SETTINGS		ation usage d web pages		Monitor		•	
		DEFAULT PERMISSIONS	Printo			Monitor Monitor		•	
				vidth usage		Do not monitor		- -	
	User		Work			Do not monitor		•	
	📕 tester@WIN10			eaks in activity ve breaks longer than		Monitor 5 🛟 minu	ites	Ŧ	
	axence.local\A		Time	of monitoring					
	- 📩 agnieszka.maj		Time	range		Between	▼ 08:00:00 ‡	to 15:59:00	
	anna.kaminski					✓ Monday ✓ Tuesday			
	artur,waszcza					✓ Wednesday ✓ Thursday			
	Helpdeskowier					🗹 Friday			
	- dorian.pozyczi					Saturday			
	gabriela.kowal							C	<u>O</u> K <u>C</u> ancel

To define access rights to media, go to the atlas, group or user properties.

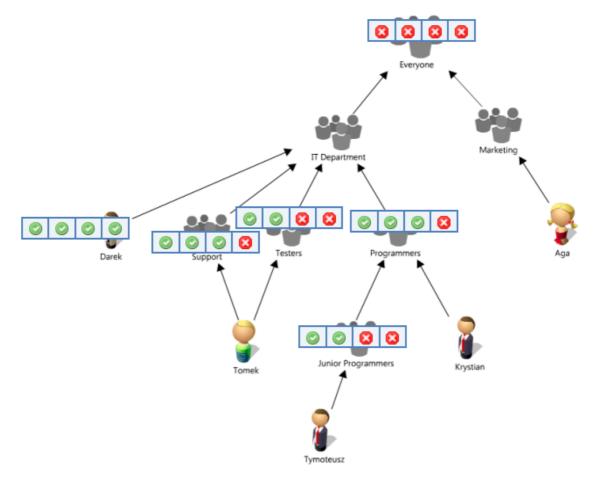
9.2.2 Example of structure

Below is an example structure, which will be used as a basis for discussing the rules of defining rights in the DataGuard module.



The rights can be defined on the level of internal nodes and leaf hosts. Rights effective for leaf nodes are calculated in the following manner: the subsequent nodes, starting from the leaf towards the root (in the present case - *Everyone*), are searched until the first node with assigned rights is found. These rights will be valid for the leaf node.

Please consider the fact that the given computer can belong to several different maps. In the present situation, this is the case of user *Tomek* whose workstation belongs to two maps: *Support* and *Testers*. In this case the effective rights are calculated on each path to the root, and the logical sum of calculated rights is considered as valid. In other words, if the right effective for any path allows for action in the given category, such action will also be allowed for the considered leaf node.



Rights effective for the leaf hosts:

Workstation	Effective rights	Description
Aga	8888	No rights. Effective right is calculated on the basis of affiliation to group <i>Everyone</i> .
Krystian	0008	No right to execute files. Rights result from affiliation to group <i>Programmers</i> .
Tymoteusz	0088	No writing and executing rights. Rights result from affiliation to group <i>Junior Programmers</i> .
Tomek	0000	No right to execute files. Tomek belongs to two groups with defined rights: <i>Support</i> and <i>Testers</i> . In this case, the sum of their rights is taken into consideration.
Darek		Full rights, assigned individually.

9.2.3 Inherited rights

The rights for the specific workstation or map can be assigned directly or inherited from parent levels. These are displayed in the above mentioned sequence, i.e. first the individually assigned rights, then the inherited rights. What is more, inherited rights are marked in gray and italics. It allows you to distinguish at a glance, which rights are specific for the given workstation, and which are the result of the rights granted on higher levels.

In the case of multiple maps and workstations, using the option of hiding inherited rights by means of the **Show inherited rights** button in the lower left corner of the device properties window is recommended.

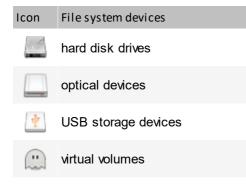
Dev	vice access rights				
	Device properties Manage properties and access rights for the	e device Compan	y USB		How does it work?
Devi	ice properties				
Nar	me: Company USB				
	Device type: Harddisk		or. Msft		Trusted device
_	Serial number. n/a	Siz	e: 2GB	U	Irusted device
Acce	ess rights Access log				
	Add access right 📝 Edit access right 🛱 Remove	access right		Filter Q	
O A					
•	Trustee	Audit	Read	Write	Execute
*		Audit	Read	Write	Execute
*	Trustee	Audit	Read	Write	Execute
Indivi	Trustee A				
A Indivî	Trustee dual rights Default rights	S Enabled	S Allow	S Allow	Allow
A Indivî	Trustee dual rights Default rights Mikuz (Axence nVision)	S Enabled	S Allow	S Allow	Allow
ndivi	Trustee dual rights Default rights Mikuz (Axence nVision) ted rights	EnabledEnabled	AllowBlock	AllowBlock	AllowBlock
Indivî	Trustee dual rights Default rights Mikuz (Axence nVision) ted rights test (Axence nVision)	 Enabled Enabled Enabled 	 Allow Block Allow 	 Allow Block Allow 	 Allow Block Allow
Indivi Indivi Inheri Inheri	Trustee ▲ dual rights □ Default rights ■ Mikuz (Axence nVision) ■ ted rights ■ test (Axence nVision) ■ test (Axence nVision) ■ test owa podgrupa nv (Axence nVision) ■	 Enabled Enabled Enabled Enabled Enabled 	 Allow Block Allow Allow 	 Allow Block Allow Allow 	 Allow Block Allow Allow Allow
Indivi Indivi	Trustee dual rights Default rights Mikuz (Axence nVision) test (Axence nVision) test (Axence nVision) testowa podgrupa nv (Axence nVision) Administrator (Axence nVision)	 Enabled Enabled Enabled Enabled Enabled Enabled 	 Allow Block Allow Allow Allow Allow 	 Allow Block Allow Allow Allow 	 Allow Block Allow Allow Allow Allow

9.3 Hosts

9.3.1 Devices and media

Devices and media are divided into several categories. Each category is marked with an appropriate icon.

Devices based on file system



Icon	File system devices	
	SD cards	
	floppy devices	
Other	devices	
Icon	Device type	Examples of devices
	network or communication devices	Bluetooth radio receivers, infrared devices, network adapters, modems
0	portable devices	wireless communication devices
	ports	Firewire, multi-port serial adapters, cable transfer devices, PCMCIA and multi-function devices, COM and LPT ports
-	printers	printers
?	PnP devices	imaging devices, smart cards, other devices

Assigning rights

File system devices can have assigned access rights in each of the four categories described in the section <u>Access rights</u> [318]. In turn, other devices can only have assigned rights related to the permission to use the device (the given device can be blocked or allowed). nVision automatically detects connected devices and media and assigns each of them to one of the above categories, depending on the device type.

9.3.2 Management

To manage the device access rights, click the Manage devices button in the main toolbar.

The following image presents an example of the **Devices** window. The upper part of the list includes specific devices discovered by nVision, the last specified group are **Other devices**. It includes all the remaining devices, i.e. still undefined ones, sorted into categories.

In order to show devices with individual DataGuard rights configured, press **Show only devices with individual access rights** button. Double-clicking on device name opens its properties window where the groups or hosts with individual permissions are specified.

Manage your devices Manage access rights for you	r devices.	How does it work
Devices Recenty used		
G Add access right Z Edit access rights	Show only devices with individual access rights	Filter Q
▲ Name		•
Other storage devices		
Other virtual volumes		
Other floppy devices		
Other optical devices		
Other SD cards		
Other devices		
? Other Plug&Play devices		
Other portable devices		
Other ports		

The connecting and disconnecting of a device is always monitored. Detected devices appear in the appropriate categories in the list.

To learn more about flash drive blocking, see section How to set the access rights to USB media? 346].

Recently used devices

The **Recently used** tab in the **Devices** window shows the list of recently used devices. All changes related to the connecting and disconnecting of the device are monitored. To review the history of monitored devices, select period (day, week or month) and if necessary, use arrows to view previous or next periods. If the amount of data is significant, use the option to search for required information.

V Device access rights	- x
Device properties Manage properties and access rights for the device Microsoft OneNote (Type: Print queues)	How does it work?
Device properties	
Name: Microsoft OneNote (Type: Print queues)	
Device type: Printer Vendor. Microsoft Serial number: n/a Size: n/a Image: Compared to the second to the	Trusted device
Access rights Access log	
← → 1 1 1 1 1 1 01.03.2020 - 31.03.2020 - Show All - Filter	Q
Time Action	
09.03.2020 Connected (enabled) 11:01:40 WIN10, 192.168.69.206	
☑ Show inherited rights	Close

9.3.3 Connected devices

To review the currently connected devices, select the **Connected devices** option in the main toolbar.

Main Tools	About	nVision													
Generate MSI pa protocol man	-	Print bar Asser codes settin Inventory	s Io	Application Manage ten Configure li	plates	Audit	Connected devices Connected devices Connected device permis Connected device permis DataGuard		Printout audit Prin	Configure print cost touts	Beports Repo	View events rts and al	Alerts erts	Distribution tasks	Anno
Devices	Jsers	Assets			onnected d	evices									×
Q Search (Ctrl+F)							connected to comp							How does it	work?
All users						storde	vices that are currently c	onnecte	ed to com	buters in yo	urnetwork				_
Hierarchy GROUPS				Sho	w All devie	ces		•				Filt	er Q		
Axence nVisi	on				Connecte	d devices	3								•
axence.local				Devi	ce : DESKTO	P-NOQNI	HI1, 192.168.0.108								
- 🔠 Built-in 3- SMART GROUP	s				Microsoft	Virtual D	VD-ROM (D:)								
intelektualis					Microsoft	Fax (prz	ekierowana sesja: 1) (Type: I	Print que	ues)						
Testowa (2)				-	Microsoft	Fax (Typ	e: Print queues)								
				-	Microsoft	OneNote	e (przekierowana sesja: 1) (T	ype: Prin	t queues)						
				-	Microsoft	OneNote	e (Type: Print queues)								
				-	Microsoft	Print to I	PDF (przekierowana sesja: 1)) (Type: F	Print queues	i)					
				-			PDF (Type: Print queues)								
				-			ument Writer (przekierowan		1) (Type: Pr	int queues)					
					Microsoft XPS Document Writer (Type: Print queues)										
				43		Hyper-V	Network Adapter (Type: Kart	y sieciov	we)						
														Clos	

It is also possible to view devices connected to a given computer from the level of the **Host info** window specific for a given computer (**Inventory / Hardware / Connected devices** tab).

The most general view with the option to switch between workstations, maps and different functionalities of the DataGuard module is offered by the **Manage trustees** window. To learn more, see section <u>Managing trustees</u> 328.

9.3.4 Changing a device name

Devices connected to monitored machines initially bear names assigned by nVision. It is possible to change such a name and to restore the default name.

To change the device name:

- 1. Navigate to **Device properties** tab by double-clicking the line with the selected device.
- N Device access rights × How does it work? **Device properties** Manage properties and access rights for the device Company USB Device properties Name: Company USB Device type: Harddisk Vendor: Msft Trusted device Serial number: n/a Size: 2GB Access rights Access log 🔂 Add access right 🔜 Edit access right 🛛 🛗 Remove access right Filter Q Audit Trustee Read Write Execute Individual rights Default rights Enabled Allow Allow Allow Mikuz (Axence nVision) Enabled Block Block Block Inherited rights Enabled Allow Allow Allow test (Axence nVision) 🔮 Enabled Allow Allow testowa podgrupa nv (Axence nVision) Allow Administrator (Axence nVision) Enabled Allow Allow Allow NV. Hello (Axence nVision) Enabled Allow Allow 🔮 Allow Helpdeskowiec (Axence nVision) Enabled Allow Allow Allow Show inherited rights Marcin1 (Avence nVision) Enabled 🔿 Allow Allow 🔿 Allow Close
- 2. Enter the custom device name in the Name field.

To restore the default device name, click the 🖾 button on the right side of the **Name** field.

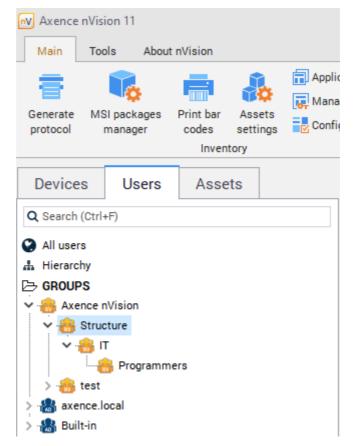
9.4 Trustees

9.4.1 Trustees – introduction

Trustees (trusted units) are workstations and computer groups for which the access rights are defined. Depending on the trust level, units can have various rights assigned. To learn more on the access rights, see section Access rights [318].

User groups

Defining separate access rights for each user would be a time consuming operation. Therefore, grouping the individual workstations into maps created by the system administrator is recommended. If the created map structure reflects the real interdependencies between the users, it is possible to set the access rights in a quick manner. An example of map structure is presented below.



To learn more on the calculation of effective access rights for the above structure, see section <u>Example</u> of structure [319].

There are two methods to manage the access rights:

- Management from the level of the properties of a given user, group or atlas <u>Managing via user</u> <u>hierarchy</u>
- Management with the Managing trustees [328] function

Axence nVision Help

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9.4.2 Managing via user hierarchy

To manage the access rights for a user, group or atlas (referred to as "units"):

- 1. Select a unit and right-click to open its *Info* window.
- 2. Navigate to the DataGuard tab.
- To change the previously defined rule, double-click the row with the chosen rule and go to step 5. To define a new rule, click the
 Add access right button.
- 4. Use the list to select a device for which you will assign the rights.
- 5. Set the access rights and press Enter.

To the edit access rights to the selected device, use the Edit access rights button. If you want to delete the previously granted rights, use the Remove access rights button.

The screenshot below illustrates the case of setting individual rights to a virtual disk drive in the **Atlas info** window (the default right, most important in the hierarchy).

Axence nVision 11							
	polication categories Isnage templates onfigure license type Audit Manage device permissions Audit Manage trustee permissions DataGuard	Printout Configure audit print cost Printouts					
	Manage trustees						• •
Q. Search (Cirl+F)	Manage trustee rights Manage the access rights for Active Direct	ory					How does it work
Hierarchy GROUPS GROUPS Axence nVision Structure	Filter Q. Name	Rights fo	r: Default rights hts Access log				
✓ ♣ IT Programmers > ♣ test	Structure (Axence nVision)	Members	ccess right <u></u> Edit acces d results: 4			Filter Q	×
> 📇 axence.local > 🎒 Built-in	🔒 Programmers (Axence nVision)		ights (File system devices)	Audit	Read	Write	Execute
SMART GROUPS	(D) marketing (Avenue al/inian)		VIN10, 172.168.10.2: Compa	. 📀 Enabled	Allow	Allow	Allow
do Testowa (2)	Administrator (Axence nVision)	1	VIN10, 192.168.69.206: Micr	Enabled	Allow	Allow	Allow
	Miko (Axence nVision)	N	VIN10, 172.168.10.2: Micros	🔮 Enabled	Enabled	Block	Block
	Mikuz (Axence nVision)	Individual r	ights				
	- 🚠 Hello (Axence nVision)	- 🐳 V	VIN10, 172.168.10.2: oki dr		Enabled		
	- 📥 Helpdeskowiec (Axence nVision)						
	- 🔒 Marcin1 (Axence nVision)						
	- 🛔 Mikuz@DESKTOP-N0QNHI1 (Axence nVision)						
	— 🔒 tester@WIN10VM (Axence nVision)						
	View as Tree	 Configure 	the blockade message				
							Close

9.4.3 Managing trustees

To manage the access rights to all units:

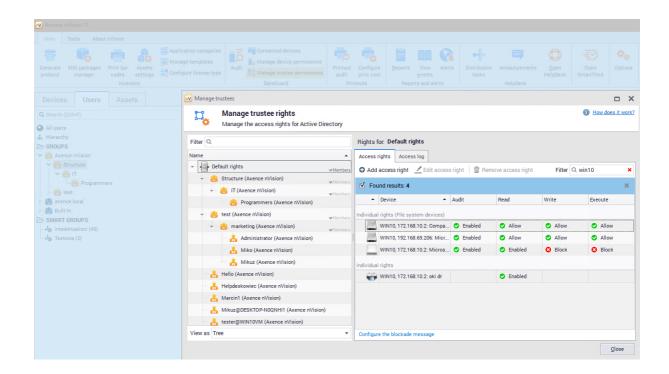
- 1. In nVision's main toolbar, select the **Manage trustees** option from the DataGuard section.
- 2. Select a unit in the list on the left side. If necessary, use the search function to find the appropriate unit quickly.
- 3. To change the previously defined rule, double-click the row with the chosen rule in the right part of

the window or select the row and click the *Edit access rights* button. To define a new rule,

click the ¹ Add access right button.

- 4. Use the list to select a device for which you will assign the rights.
- 5. Set the access rights and press Enter.

The rights assigned individually can also be edited directly in the management window. For this purpose, click the selected right to change it. Clicking the inherited access rights will open the **Define access rights** window.



9.4.4 Active Directory users

Data Guard module is integrated with Active Directory. Therefore, access rights can be assigned to AD users directly.

N Axence nVision 11								
Main Tools About nVision								
Canarata MSI parkanas Print har Assets	pplication categories anage templates onfigure license type	e permissions ee permissions	Printout Configure audit print cost Printouts	Beports View <u>events</u> Reports and alert	Alerts Distribution tasks	Announcemen HelpDesk	nts <u>O</u> per HelpDe	Open
Devices Users Assets	Structure Users (0) Console	log						
Q Search (Ctrl+F)	N Group: Administration							_ = ×
 → ⊕ Structure → ⊕ π → ⊕ Programmers > ⊕ test 	Administration Manager: No manager							
✓ ♣ axence.local			-					
	GENERAL	DATAGUAF	D					
		Access right	nts Access log					
	DATAGUARD	-	-					
ADSyncBrowse		Add ac	cess right 🛛 🛃 Edit acc	ess right 🛛 🗑 Remov	e access right	Filter C	ξ	
	BLOCKADES	▲ D	evice		-	Audit Read	Write	Execute
Allowed RODC Password Replication Group		Dichte inher	ited from: Default rights (I	File system devices)				
allisto \$ Acronis ApiGateway Users	SETTINGS	0000	IN10, 172.168.10.2: Compa			0 0	٢	0
> 🏭 callisto \$ Acronis Centralized Admins		-						
> 🍓 callisto \$ Acronis Remote Users		w.	IN10, 192.168.69.206: Mici	rosoft Virtual Disk 2GB (D):)	• •	•	•
		01	her harddisk devices			• •	•	0
> 🔠 Denied RODC Password Replication Group		1 01	her USB storage devices			0 0	•	•
		D ot	her storage devices			0 0	0	0
		-	her virtual volumes			0 0		0
		had					-	
			her floppy devices			• •	•	•
		W	IN10, 172.168.10.2: Micros	soft Virtual DVD-ROM (F:)		• •	0	0
Enterprise Key Admins		01	her optical devices			0 0	0	0
Renterprise Read-only Domain Controllers		i ot	her SD cards			0 0	•	•
HelpLibraryUpdaters		-						
		Rights inher	ited from: Default rights					
		Configure t	he blockade message					

To view and define access rights for AD users:

- 1. Select the **Manage trustees** option in the main toolbar in the DataGuard section.
- 2. Select a group or a user on the left side of the window. If necessary, use the search function to find the appropriate unit quickly.
- 3. To change the previously defined rule, double-click the row with the chosen rule in the right part of

the window or click the *Add access right* button. To define a new rule, click the **Add** access right button.

- 4. Select a device for which you will assign the rights.
- 5. Set the access rights and press Enter.

Manage trustee rights Manage the access rights for Active Directory										Ho	w does it wo
ter Q	Rights	for the g	oup: Administratio	on (a)	cence.local)					
me	Access	rights	Access log								
🔒 Hello (Axence nVision)	O Add	accessi	ight 📝 Edit acces	s righ	t 🗍 🛱 Rer	nove acces	s right	F	ilter Q		
🔒 Helpdeskowiec (Axence nVision)		Device		Aud	it	Read		Write		Exe	oute
harcin1 (Axence nVision)	-										
👷 🔒 Mikuz@DESKTOP-N0QNHI1 (Axence nVision)	Rights in		om: Default rights (Fil								
tester@WIN10VM (Axence nVision)			72.168.10.2: Compa		Enabled	Allo		 A A 		-	Allow
🚟 👪 Access Control Assistance Operators (Built-in)			92.168.69.206: Micr	-	Enabled	Allo		A		-	Allow
🐘 😹 Access-Denied Assistance Users (axence.local)	-		rddisk devices		Enabled	 Allo 		A			Allow
🚟 👪 Account Operators (Built-in)	4		B storage devices		Enabled	 Allo 		A			Allow
Administration (axence.local)			orage devices		Enabled	 Allo 		A		-	Allow
Administrators (Built-in)			tual volumes		Enabled	 Allo 		A			Allow
🗁 🆓 ADSyncAdmins (axence.local)			ppy devices		Enabled	Ilo 🕑		A		-	Allow
ADSyncBrowse (axence.local)	-		72.168.10.2: Micros		Enabled	🔮 Ena		O B		-	Block
ADSyncOperators (axence.local)			tical devices		Enabled	🕑 Ena		8			Block
ADSyncPasswordSet (axence.local)		Other SE	cards	0	Disabled	🔮 Allo	W	🗢 A	llow	0	Allow
ew as Tree	Configu	re the blo	ckade message								

Remarks

- Active Directory trustees access rights have priority over workstation rights.
- Active Directory trustees access rights may be defined for file system devices and for devices with a serial number.
- If a circular dependency between imported AD units is detected, nVision breaks every dependency in that circle. Such a situation is reported by a message in the **Manage trustees** window.

9.4.5 Access log

The access log stores information on the access to data and connected devices. To monitor access, enable audit for the device and unit (workstation, map, atlas) to be monitored. Rights can be defined individually or inherited (as shown below).

Manage trustee rights Manage the access rights for Ac	tive Direct	tory					
		Rights for. De	fault rights				
	efine device	access			• ×		
Default rights Structure (Axence nVision) Alignment of the second secon		efine device access se this window to define	-		w does it work?	Filter Q. Write	Execute
Programmers (Axenc	Device:	WIN10, 172.168.10.2: Micr	osoft Virtual DVD-RC)M (F.)	•		
+ 🦓 test (Axence nVision)	Rights for:	Default rights			·	Allow	Allow
- 8 marketing (Axence nVisio	Rights:	Audit	📀 Er	abled		Allow	Allow
Administrator (Axend		Read	😒 Er	abled			
Miko (Axence nVisio		Write	🙁 BI	ock		Allow	Allow
Mikuz (Axence nVisi		Execute	🕴 BI	ock		Allow	Allow
Hello (Axence nVision)						🛇 Allow	Allow
Helpdeskowiec (Axence nVis				011		Allow	Allow
Marcin1 (Axence nVision)				<u>О</u> К	Cancel	🕄 Block	😢 Block
					Enabled	🙁 Block	😢 Block
- 🏯 Mikuz@DESKTOP-NOQNHI1 (Axence				🕴 Disabled	Allow	Allow	Allow
iew as Tree		 Configure the bit 					

The connecting and disconnecting of a device is always monitored. With audit toggled on, file creation, renaming, writing and deleting are also monitored.

To view the access log:

- 1. Select the **Manage trustees** option in the main toolbar in the DataGuard section.
- 2. Navigate to the **Access log** tab.
- 3. Select a unit in the list on the left side. If necessary, use the search function to find the appropriate unit quickly.
- 4. Choose a period of information to be viewed.

V Device access rights	□ ×
Device properties Manage properties and access rights for the device Microsoft OneNote (Type: Print queues)	How does it work?
Device properties	
Name: Microsoft OneNote (Type: Print queues)	
Device type: Printer Vendor. Microsoft Serial number: n/a Size: n/a Image: Size: <td>Trusted device</td>	Trusted device
Access rights Access log	
← → 1 1 1 1 1 01.03.2020 - 31.03.2020 - Show All - Filter	Q
Time Action	
09.03.2020 🖄 Connected (enabled) 11:01:40 🏹 Microsoft OneNote (Type: Print queues) WIN10, 192.168.69.206	
☑ Show inherited rights	<u>C</u> lose

9.4.6 Access log for users

To view the access log for users from the level of Manage trustees window:

- 1. Select the **Manage trustees** option in the main toolbar in the DataGuard section.
- 2. Select a group or a user on the left side of the window. If necessary, use the search function to find the appropriate unit quickly.
- 3. Navigate to the Access log tab.

All data relating to connections and disconnections of devices and data relating to file operations will be show in this tab (audit on these devices must be toggled on).

It is possible to limit the view to a specific day, week or month. Use the navigation arrows to read data concerning the period you are interested in.

To check other methods to view connected devices, see section Connected devices 3251.

9.5 Local directories monitoring

9.5.1 Audit local directories - introduction

The DataGuard module in nVision 11.9 has been expanded with the auditing operations function performed on files in local directories.

Until now, the DataGuard module allowed auditing only at the level of the entire device, without the possibility of auditing the entire system disk. The purpose of extending the module was to enable the definition of additional auditing rules at the level of local directories (regardless of the disk and device on which the directory is located). Due to changes applied in nVision 11.9, it is possible to monitor operations also on system disks.

Defining the directories to be audited is done by the user (suchlike defining access rights to monitored devices), user group and Atlas level:

ATAGUARD	DATAGUARD		
LOCKADES	Access rights Access log Audited directories		
	Audited directories		
SETTINGS	🕒 Add 👱 Properties 💼 Remove		
DEFAULT PERMISSIONS	Description	Excluded	Directory
	Custom rule		
	Katalog domowy	Include	%USERPROFILE%
	Dokumenty	Include	C:\Dokumenty
	Inherited from Built-in		
	Roaming user application data	C Exclude	%APPDATA%
	Local user application data	C Exclude	%LOCALAPPDATA%
	Low access level application data	8 Exclude	%LOCALAPPDATA%\\LocalLow
	Program data	Exclude	%ProgramData%
	Program files	Exclude	%ProgramFiles%
	Program files (32 bit programs)	O Exclude	%ProgramFiles(x86)%
	Program files (64 bit programs)	Exclude	%ProgramW6432%
	System directory	🙁 Exclude	%SystemRoot%

9.5.2 Configuration

Local directory monitoring settings can be defined for Atlas (all users), user groups and for individual users. They can be accessed from several locations:

1. Window: Users / Atlas / DataGuard / Audited directories:

				Distribution Announcements tasks HelpDesk		
evices Users Assets	Axence nVision 11					
iearch (Ctrl+F) Jl users	Monitoring properties: At	llas				
Roups	DATAGUARD	DATAGUARD				
Axence nVision A axence local	BLOCKADES	Access rights Access log Ar	udited directories			
Built-in MART GROUPS	SETTINGS	Audited directories				
intelektualisci (53) Testowa (2)	DEFAULT PERMISSIONS	Add <u> Properties</u> R Description	lemove	Excluded	Directory	
		Custom rule				
		Katalog domowy		Include	%USERPROFILE%	
		Dokumenty		Include	C:\Dokumenty	
		Inherited from Built-in				
		Roaming user application da	ata	Exclude Exclude	%APPDATA% %LOCALAPPDATA%	
		Local user application data Low access level application	a data	Exclude Exclude	%LOCALAPPDATA%	all our
		Program data	uoto	C Exclude	%ProgramData%	alcow.
		Program files		Exclude	%ProgramFiles%	
		Program files (32 bit progra	ms)	Exclude	%ProgramFiles(x86)%	
		Program files (64 bit progra		C Exclude	%ProgramW6432%	
		System directory		C Exclude	%SystemRoot%	

2. Window: Group information / DataGuard / Audited directories

3. Window User information / DataGuard / Audited directories

Atlas is a general setting that is inherited by groups and users by default. This setting can be changed for individual units by going to the settings windows mentioned above.

To add a directory in which file operations are to be monitored, click the **Add** button. A new window will open to create an entry. The rule name and directory path should be specified there. The directory path can be given:

- In absolute form, starting with a drive letter (for example "C: \") and ending with the full name of the directory of audited directory
- In a form containing an environment variable that begins and ends with the character "%". A variable can appear anywhere in the path and replace any part of it. For example, if "% USER-PROFILE%" is "C: \ Users", you can add "% USERPROFILE% \ Data \" as the monitored directory.

Each added audited directory automatically causes that **its entire content is audited** (including subdirectories and files).

Once the rules are added, it will be possible to monitor file operations in a specific directory:

Axence nVision 11					
Main Tools About nVision					
Canastra MSI anakanan Brist bar Asarta	e license type Audit Manage trustee permissions audi	ut Configure Reports View Alerts Distribut	ion Announcements Open	Open Options	
Devices Users Assets	All users Users (66) Console log				
Q Search (Ctrl+F)	V DataGuard audit				- ×
All users Hierarchy GROUPS	List of all actions taken on devices in your net	vork.			How does it work?
> 🐣 Axence nVision	← → 🛅 📅 📅 🛗 16.09.2020 środa - Show All	•			Filter Q
> 🔮 Built-in	Date • Time • Device		Action		Source
SMART GROUPS	16.09.2020 09:38:29 Microsoft Virtual Disk 127GE	(C.E.)	💊 Renamed "\U	Jsers\Miku\ważne_dane – kopia.txt"	to "m 🎍 Miku@WIN10 on WIN10, 192.168.69.206
- ng, intelektualisci (53)	16.09.2020 09:38:19 Microsoft Virtual Disk 127GE	(C:,E:)	Created "\Us	sers\Miku\ważne_dane — kopia.txt* (0	B) & Miku@WIN10 on WIN10, 192.168.69.206
dg, Testowa (2)	16.09.2020 09:38:15 Microsoft Virtual Disk 127GE	(C:,E)	💊 Renamed "\U	Jsers\Miku\Nowy dokument tekstowy	r.txt" 💄 Miku@WIN10 on WIN10, 192.168.69.206
	16.09.2020 09:38:11 Microsoft Virtual Disk 127GE	(C:,E:)	Created "\Us	sers\Miku\Nowy dokument tekstowy.t	txt" (🔒 Miku@WIN10 on WIN10, 192.168.69.206
	16.09.2020 09:30:34 🚔 Microsoft DYMO LabelWrite	450 (przekierowana sesja: 2) (Type: Print queues)	🖄 Connected (d	disabled)	WIN10, 192.168.69.206
	16.09.2020 09:30:34 😽 Microsoft Administracja OKI	MC573 (przekierowana sesja: 2) (Type: Print queues)	🖄 Connected (d	disabled)	WIN10, 192.168.69.206
-	16.09.2020 09:30:34 😽 Microsoft XPS Document Wr	ter (przekierowana sesja: 2) (Type: Print queues)	🖄 Connected (d	disabled)	WIN10, 192.168.69.206
					Close

Default directories excluded from scanning

The DataGuard module has a list of built-in directories that are always excluded from system-wide scanning. The list of globally excluded directories is built into the program and cannot be edited.

ACTIVITY	Audited directories		
SCREENSHOTS	🕒 Add 🛃 Properties 📸 Remove		
SCREENSHUTS	Description	Excluded	▲ Directory
ASSETS	Custom rule		
100210	Wykluczenie Temp	S Exclude	C:\Dokumenty\Temp
SOFTWARE	Inherited from Atlas		
	Katalog domowy	Include	%USERPROFILE%
EVENTS	Dokumenty	Include	C:\Dokumenty
	Inherited from Built-in		
DATAGUARD	Roaming user application data	S Exclude	%APPDATA%
	Local user application data	C Exclude	%LOCALAPPDATA%
BLOCKADES	Low access level application data	Exclude	%LOCALAPPDATA%\\LocalLow
	Program data	Exclude	%ProgramData%
SETTINGS	Program files	Exclude	%ProgramFiles%
	Program files (32 bit programs)	Exclude	%ProgramFiles(x86)%
PERMISSIONS	Program files (64 bit programs)	Exclude	%ProgramW6432%
	System directory	S Exclude	%SystemRoot%

The list of excluded directories is visible in the DataGuard settings:

9.5.3 Audit exclusions

Excluded directories from auditing (exceptions) can be added for each user. This means that for a specific user, operations in the selected directory will not be monitored.

ACTIVITY	Audited directories			
SCREENSHOTS	🕒 Add 🛃 Properties 📾 Remove			
SUREENSHUTS	Description	Excluded	 Directory 	
ASSETS	Custom rule			
AUGETU	Wykluczenie Temp	C Exclude	C:\Dokumenty\Temp	
SOFTWARE	Inherited from Atlas			
	Katalog domowy	🗢 Include	%USERPROFILE%	
EVENTS	Dokumenty	Include	C:\Dokumenty	
	Inherited from Built-in			
DATAGUARD	Roaming user application data	Exclude	%APPDATA%	
,	Local user application data	Exclude	%LOCALAPPDATA%	
BLOCKADES	Low access level application data	Exclude	%LOCALAPPDATA%\\LocalLow	
	Program data	C Exclude	%ProgramData%	
SETTINGS	Program files	C Exclude	%ProgramFiles%	
	Program files (32 bit programs)	C Exclude	%ProgramFiles(x86)%	
PERMISSIONS	Program files (64 bit programs)	C Exclude	%ProgramW6432%	
-	System directory	S Exclude	%SystemRoot%	

These settings can be assigned for a specific user only from the level of the DataGuard module settings window:

For example: when monitoring operations in the "C: \ Documents \" directory, a directory "C: \ Documents \ Temp \" can be added as a directory excluded from auditing for the selected user. "Documents" directory will be audited excluding the sub-directory "Temp".

To add a new exclusion, select the **Add** button and enter the description and path of the directory to be excluded from the audit.

9.6 Alerts

9.6.1 Alerts for DataGuard

Alerts for the DataGuard module allow a warning to be sent in the case of actions related to mobile devices and their connection status. In particular, the administrator can be informed about each attempt of theft of confidential information.

Event types

- 1. Mobile device connected or disconnected
 - Device is connected
 - Device is disconnected
- 2. File operation on the mobile device
 - File was created

- File was deleted
- File was renamed
- Data written to existing file

As an additional condition, a file name wildcard can be specified.

In the case of both selected event types, alerts can be generated for all devices or for specified devices selected from the list.

9.6.2 Creating an alert

To learn more about the alert creation process, see section <u>Alerting</u>

Discovering the connection of a mobile device

- 1. Open the alert management window in the main toolbar.
- 2. Click the [•] Add alert button to create a new alert.
- 3. Click the **New** button in the alert definition window. Enter the event name and select the event type from the list: **Mobile device connected or disconnected**.

N Event definition wizard			×
	Define ev	ent name and type	
	Event name:	Mobile device connected or disconnected	
		Change device status to: 🦰 No change 🔻	
		When this event is raised the device status is changed to the one defined here. To prevent a status change by this event, select "No change". The device status is indicated on the map as a colored icon.	
		Severity: Moderate -	
	Select event type	you want to create:	
		2 DataGuard	-
		File operation on mobile device Mobile device connected or disconnected	
M		Agent status	
St 2		Change on switch ports	
Zna			
		< <u>B</u> ack <u>N</u> ext > <u>C</u> ancel	

4. Click Next. Mark the Device is connected field and select the Specified device, e.g. Other USB data media from the list.

5. Then use the alert definition window to add actions to be performed when the event defined above occurs. Such a created alert will detect a situation when an unknown USB media is connected to the monitored computers.

File operation on device

Similarly, at step 3. choose event type: **File operation on device** and select desired configuration. There is a possibility to toggle **generate an event for files in audited directories** - selecting this option will include local directories audit in this alert configuration.

N Event definition wizard			×
	File operation of	on device	
	Generate an event when fol ☑ File was created ☑ File was deleted ☑ File was renamed ☑ Write to exist file	lowing file operations were de	tected:
	Specify additional condition	ns for the event:	
	☑ File mask is *.doo	;	
		Note: you can use *	symbol as a wildcard symbol
	Generate this event for all o	devices	•
	🕒 Add 🛗 Remove	Filter	Q
	▲ Name		*
ANZ -		<no data="" display="" to=""></no>	
Znr	🗹 Generate an event for fi	les in audited directories	
		< <u>B</u> ack	<u>F</u> inish <u>C</u> ancel

9.7 Security

9.7.1 Windows Defender

Axence nVision® version 13 introduces the Windows Defender antivirus software control feature. This feature is available for computers with Windows 7 operating system or later.

To view the Windows Defender information on a particular device:

- 1. In the nVision console, click the **Devices** tab.
- 2. Click the Security tab.
- 3. Double-click the line with the selected device.
- 4. In the Device Info window, click the Security tab.
- 5. Click the Windows Defender.

The Windows Defender tab displays the following parameters:

- · Real-time security
- · Security from the cloud
- Automatic sample transfer
- Security against infringement
- Last scan
- Definition date
- Definition version

In addition, a list of threats detected by the antivirus software is displayed below.

Windows Defender - remote actions

The nVision console allows for remote interaction with Windows Defender on a machine which has the Agent installed. The available actions are as follows:

- Definition update
- Fast scan
- Full scan

To perform one of the above actions:

- 1. In the nVision console, click the **Devices** tab.
- 2. Click the Security tab.
- 3. Right-click the line with the specific device.
- 4. Select Windows Defender from the list, and then click one of the three actions.

Once the selected action is executed, the parameters that are displayed in the list, i.e. last scan date, definition date and definition version, will be updated.

You can create a <u>policy</u> to provide better control of the antivirus software.

9.7.2 Windows BitLocker

Axence nVision® version 13 introduces the BitLocker software control feature. This feature is available for computers with Windows 7 operating system or later.

To view the Windows Defender information on a particular device:

- 1. In the nVision console, click the **Devices** tab.
- 2. Click the Security tab, and then double-click the line with the selected device.
- 3. In the Device Info window, click the **Security** tab. If a tab other than BitLocker is displayed, click the **BitLocker** button.

The read parameters displayed in the BitLocker tab are as follows:

- 1. BitLocker:
- System disk status
- 2. TPM:

- Version
- Enabled
- Activated

9.7.3 Windows Firewall

Enter topic text here.

9.8 Audit

To perform a device audit:

- 1. Select the Audit option in the main toolbar in the DataGuard section.
- 2. Choose a period of information to be viewed.

	Application categorie sets sttings	Audit Manage device permissions	on Announcements Open HelpDesk		
Devices Users Assets	■ DataGuard audit				
Q. Search (Ctrl+F)	Device au List of all ac	dit tions taken on devices in your network.		How does it wo	
Hierarchy 3 GROUPS		3 01.03.2020 - 31.03.2020 * Show All *		Filter Q	
Axence nVision	Date • Time	▼ Device	Action	Source	
V 🔒 Structure	30.03.2020 11:04:34	icrosoft Fax (przekierowana sesja: 1) (Type: Print queues)	🖄 Connected (enabled)	DESKTOP-N0QNHI1, 192.168.0.108	
✓ - 📇 IT □- 📇 Programmers	30.03.2020 11:04:34	icrosoft OneNote (przekierowana sesja: 1) (Type: Print queues)	🖄 Connected (enabled)	DESKTOP-N0QNHI1, 192.168.0.108	
> 👸 test	30.03.2020 11:04:34	icrosoft Print to PDF (przekierowana sesja: 1) (Type: Print queues)	📩 Connected (enabled)	DESKTOP-N0QNHI1, 192.168.0.108	
axence.local	30.03.2020 11:04:34	icrosoft XPS Document Writer (przekierowana sesja: 1) (Type: Print queues)	🖄 Connected (enabled)	DESKTOP-N0QNHI1, 192.168.0.108	
SMART GROUPS	27.03.2020 15:01:50	icrosoft OneNote (przekierowana sesja: 1) (Type: Print queues)	🟦 Disconnected (enabled)	DESKTOP-N0QNHI1, 192.168.0.108	
do intelektualisci (49)	27.03.2020 15:01:50	icrosoft Print to PDF (przekierowana sesja: 1) (Type: Print queues)	🟦 Disconnected (enabled)	DESKTOP-N0QNHI1, 192.168.0.108	
Testowa (2)	27.03.2020 15:01:49	icrosoft XPS Document Writer (przekierowana sesja: 1) (Type: Print queues)	🟦 Disconnected (enabled)	DESKTOP-N0QNHI1, 192.168.0.108	
	27.03.2020 15:01:49	icrosoft Fax (przekierowana sesja: 1) (Type: Print queues)	🟦 Disconnected (enabled)	DESKTOP-N0QNHI1, 192.168.0.108	
	27.03.2020 10:15:10	icrosoft OneNote (przekierowana sesja: 1) (Type: Print queues)	🖄 Connected (enabled)	DESKTOP-N0QNHI1, 192.168.0.108	
	27.03.2020 10:15:10	icrosoft Print to PDF (przekierowana sesja: 1) (Type: Print queues)	🖄 Connected (enabled)	DESKTOP-N0QNHI1, 192.168.0.108	
	27.03.2020 10:15:10	icrosoft XPS Document Writer (przekierowana sesja: 1) (Type: Print queues)	🖄 Connected (enabled)	DESKTOP-N0QNHI1, 192.168.0.108	
	27.03.2020 10:15:10	Microsoft Fax (przekierowana sesja: 1) (Type: Print queues)	🖄 Connected (enabled)	DESKTOP-N0QNHI1, 192.168.0.108	
	26.03.2020 23:30:27	Hicrosoft Print to PDF (Type: Print queues)	🖄 Connected (enabled)	Mikuz@DESKTOP-N0QNHI1 on DESKTOP-N00	
	26.03.2020 23:30:27	icrosoft OneNote (Type: Print queues)	🖄 Connected (enabled)	Mikuz@DESKTOP-N0QNHI1 on DESKTOP-N00	
	26.03.2020 23:30:27	icrosoft Fax (Type: Print queues)	📩 Connected (enabled)	Mikuz@DESKTOP-N0QNHI1 on DESKTOP-N00	
	26.03.2020 23:30:27	General Microsoft XPS Document Writer (Type: Print queues)	🖄 Connected (enabled)	Mikuz@DESKTOP-N0QNHI1 on DESKTOP-N00	
	26.03.2020 23:29:55	Hicrosoft OneNote (Type: Print queues)	🚊 Disconnected when system was offline (enabled)	DESKTOP-N0QNHI1, 192.168.0.108	
	26.03.2020 23:29:55	icrosoft Print to PDF (Type: Print queues)	DESKTOP-N0QNHI1, 192.168.0.108		
	26.03.2020 23:29:55	icrosoft Fax (Type: Print queues)	Disconnected when system was offline (enabled)	DESKTOP-N0QNHI1, 192.168.0.108	
	26.03.2020 23:29:54	General Microsoft XPS Document Writer (Type: Print queues)	🟦 Disconnected when system was offline (enabled)	DESKTOP-N0QNHI1, 192.168.0.108	
	26.03.2020 15:18:42	icrosoft Fax (przekierowana sesja: 2) (Type: Print queues)	🟦 Disconnected (enabled)	DESKTOP-N0QNHI1, 192.168.0.108	
	26.03.2020 15:18:42	icrosoft Print to PDF (przekierowana sesja: 2) (Type: Print queues)	🟦 Disconnected (enabled)	DESKTOP-N0QNHI1, 192.168.0.108	
	26.03.2020 15:18:42	i Microsoft XPS Document Writer (przekierowana sesja: 2) (Type: Print queues)	Disconnected (enabled)	DESKTOP-N0QNHI1, 192.168.0.108	

Reviewing device access history can be also performed from the level of the **Manage trustees** window. To learn more, see section Access log 331.

9.9 Quick help – typical rights configuration scenario

This section presents the scenario for setting access rights in a typical situation: operations on undefined USB devices are blocked (in particular, writing to files and executing files), while extended rights are assigned to a specific device, in this case - a corporate flash drive. A corporate flash drive is used by a certain group of users (in the following example - a department represented by *Support* map), which allows the transfer of corporate data between the workstations.

Blocking the rights to write and execute for undefined USB devices

To set the rights for a USB device:

1. Right click Atlas (Users tab) and navigate to the Atlas info window.

- Navigate to the **DataGuard** tab and select the device group **Other USB storage devices** marked with the *icon*. Press **Enter** or double-click the selected row.
- 3. Set the access rights as shown in the following image and press Enter.

N Define device	access		– ×
	efine device access rights se this window to defnie access r	ights for Structure (Ax	• How does it work? ence nVision)
Device:	WIN10, 172.168.10.2: Microsoft Virtu	al DVD-ROM (F.)	¥
Rights for:	Structure (Axence nVision)		+
Rights:	Audit	Enabled	
	Read	Enabled	
	Write	🕴 Block	
	Execute	3 Block	
		<u>0</u> K	<u>C</u> ancel

With such a configuration of rights, it is possible to read files from external media, but the ability to write data or run executables is blocked. If the audit is toggled on, users' actions related to external media are monitored, i.e. the information on read files and writing/execution attempts are collected. The connecting and disconnecting of an external device is always monitored, regardless of the audit option setting.

Creating a map of users utilizing the corporate flash drive

If the corporate flash drive is available for a certain department or user group, creating a group enabling the easy management of access rights for these users is recommended.

To create a group:

1. Right click the selected group or folder and select New / Group option.

NV Axence nVision		nVision					
Generate MSI packages Print bar Assets					cation categories age templates gure license type		
Devices	Users	Asse	ts				Structure U
Q Search (Ctrl+F)							🕒 🗚 dd user 🗾 U
 All users Hierarchy GROUPS Axence nVi Structu 							* Name
~ €	New				•	0	<u>G</u> roup
<u> </u>	Group <u>i</u> nf	0				0	<u>S</u> mart group
> 🥵 axen 🗎	Reports					0	Subgroup
> 船 Built- 合 SMART	<u>R</u> emove						
intele 🛇	Remove f	rom paren	t grou	p			
Testowa (2)						

2. Click the caption or use the **Properties** option to assign a name to the created map.

To add a group to another (parent) group, navigate to its properties.

nv Group: Programmers					-		×
Programmers Manager: No manager							
GENERAL	INFORMATION						
DATAGUARD	Name:	Programmers	Manager.	No manager		•	
BLOCKADES		30.03.2020 11:19:38	Access to activity:	×			
SETTINGS	Type: Domain:	Axence nVision					
	Users and groups						
	Users in the group:		Belongs to groups	Subgroups			
			🚠 п				
	<no da<="" td=""><td>ta to display></td><td></td><td></td><td></td><td></td><td></td></no>	ta to display>					
		Add Remove			Add R	.emov	/e

The next step is to copy the appropriate users to the created group. For this purpose, just select the users and drag the to the appropriate group.

Setting rights for a corporate flash drive

A corporate flash drive allows data to be transferred within a certain group of users. Therefore, file reading and writing are allowed for the given device. Program execution is still blocked to prevent the distribution of viruses. The enabled audit allows all operations performed on the given USB drive to be monitored.

To set the access rights for a USB device:

- 1. In nVision's main toolbar, select the Manage trustees option from the DataGuard section.
- 2. Click the Add access rights button and select the corporate flash drive from the list.
- 3. Set the access rights as shown in the following image and press Enter.

Now users belonging to the Marketing group can read and write data from the Corporate Flash Disk" device.

Manager: Administrator						
GENERAL DATAG				_		
DATAGUARD	access		— ×			
	efine device acc	-	How does it work?	Iter Q		
BLOCKADES	se this window to de	efnie access rights for marketing (A	Axence nVision)	Read	Write	Execute
	WIN10, 172.168.10.2: 0	Company USB	•			
SETTINGS Rights for.	marketing (Axence nV	'ision)	*	0		
Rights:	Audit	📀 Enabled		0	0	۲
	Read	Allow		0		0
	Write	Allow		0	0	0
	Execute	3 Block		0	0	
				0	٢	۲
		<u>0</u> K	<u>C</u> ancel	0	0	
	-	. אויטרטער אוינענו איז אויא אויי		0	0	0
			0		8	0
			0	0	۲	۲

9.10 Quick help – setting default access rights to USB devices

A frequent cause of infecting computers with viruses is the distribution of malware via flash drives. These devices are started up automatically, which allows for the proliferation of viruses. The second factor posing a potential threat is the ability to copy sensitive data and carry it outside of the company on a USB flash drive. The DataGuard module ensures protection against those threats.

To block the ability to write and execute files on all USB devices (except for those for which the access rights were defined individually) for the entire atlas, i.e. for all users:

- 1. Right click Atlas (Users tab) and navigate to the Atlas info window.
- 2. Navigate to the **DataGuard** tab and select the device group **Other USB storage devices** marked with the *icon*. Press **Enter** or double-click the selected row.
- 3. Set the access rights as shown in the following image and press Enter.

NV Define device	access				×
	efine device access rights se this window to defnie access rig	ghts		<u>v does it w</u> nVision)	
Device:	WIN10, 172.168.10.2: Company USB			•	***
Rights for:	marketing (Axence nVision)			+	
Rights:	Audit	٢	Enabled		
	Read	0	Allow		
	Write	8	Block		
	Execute	Θ	Block		
			<u>0</u> K	<u>C</u> ance	I

To set the default rights for specific groups and users or to check their settings:

- 1. In nVision's main toolbar, select the Manage trustees option from the DataGuard section.
- 2. Use the list to select the group or user for which the changes will apply.
- 3. Select the device group **Other USB storage devices** marked with the *icon*. Press **Enter** or double-click the selected row.

If a user connects a blocked device, a pop-up with a notification about blocking will be displayed from the Agent icon.

To learn more about flash drive blocking and setting access rights for specific devices detected by nVision, see section <u>How to set the access rights to USB media?</u> 346.

9.11 Setting default access rights to USB devices

To block the ability to write and run files from a specific USB flash drive detected by nVision:

- 1. Click the **Connected devices** button located in the DataGuard section in the main toolbar.
- 2. Select the detected flash drive to be blocked in the list.
- 3. Click the ¹ Add access right button.
- 4. Use the list to select the user, group or atlas for which the access rights will be set, and block it as presented in the image below. Press **Enter**.

Device properties Manage properties and acce	ss rights for the device M	y VDI			
Device properties					
Name: My VDI nV Define de	evice access			3 × -	
Device type: 0 Serial number: n	Define device acces Use this window to defi	ss rights ne access rights for a devic	How does	10	Trusted device
Access rights Access log Dev	ice: DESKTOP-N0QNHI1, 192	.168.0.108: My VDI	~		
🕽 Add access right 📝 Eq 💦 Rights	for: IT (Axence nVision)		•	Iter Q	
▲ Trustee	nts: Audit	😒 Enabled			Execute
herited rights	Read	📀 Enabled			
Default rights	Write	8 Block		pck	🙁 Block
IT (Axence nVision)	Execute	8 Block		pck	Block
marketing (Axence nVision				pck	Block
Programmers (Axence nVi			<u>O</u> K <u>C</u> ar		3 Block
Structure (Axence nVision)		🗢 Enabled	S Enabled	C3 Block	🕴 Block
		📀 Enabled	📀 Enabled	8 Block	🕄 Block
				🙁 Block	🙁 Block

For more information on setting default access rights to USB flash drives, see section <u>Quick Help –</u> <u>setting default access rights to USB devices</u> 345.

Part View of the second second

10 HelpDesk module

10.1 Introduction

HelpDesk module provides the users with an interactive trouble ticket database, which simplifies reporting and solving problems. Moreover, the database is expanded on an ongoing basis with subsequent technical issues and the related histories of how issues have been solved, thus becoming a valuable knowledge base both for users and technical support employees.

= 😫 HelpDesk	Q Enter a search phrase or a	a ticket ID	Advanced	d search					A 🤤 🕒
Knowledge base	VIEWS My tickets 1 Observed 1	All my ti	ckets (1) Add ticket	CATEGORY	LAST UPDATE \lor	REQUESTER	ASSIGNEE	[⊘] Auto-refresh Disabled ⊙
	FILTERS STATUS Status Gree Gree Support Support Creat	٠	1654	Visual Studio Code Icense expired	Licenses	Vesterday at 1:13 PM	Bob	Mateurz	
	Collapse all Anonymous ticket	Tickets from 1 t	o 1 from 1	Show 25 v tickets per page			English (US)	First C	1 > Last

HelpDesk interface

- The trouble ticket database allows the users to report their technical issues with the use of the trouble ticket creation mechanism. Trouble tickets can be created both by users with an installed Agent and without (after logging in or by e-mail).
- The trouble tickets are solved by HelpDesk employees.
- In the part for Administrators and HelpDesk employees, the incoming trouble tickets are processed and assigned to the appropriate person who receives notifications about the delegated problem which requires solving.
- A User can monitor the solving of the reported issue and its current status, as well as exchange information with the administrator, by means of comments, which can be entered and read by both parties.
- The knowledge base is a space where Administrators and HelpDesk employees can publish articles describing the procedures which have been used in a given organization and the most common issues and their solutions.

An example of the view of the trouble ticket database from the Administrator level is presented above.

Related topics

HelpDesk module configuration

Distance Information Information

- Distanting the HelpDesk interface
- Main views
- Mannouncements
- **<u>File distribution</u>**

10.2 Management and configuration

10.2.1 Configuration

To start using the HelpDesk module, enable and configure the following settings in the main nVision window.

HelpDesk access configuration

To run the HelpDesk functionality, first enable access to this module in nVision:

- 1. Click the Main tab in the nVision console.
- 2. Click the **Options** button.
- 3. Click the Service Configuration section.
- 4. Click the Helpdesk Status slider.

In addition, enter the port number under which the HelpDesk is to operate and the URL with the port number under which the HelpDesk will be accessible for the Agents.

URL is the IP address of the nVision Server where the HelpDesk runs. **Important**: replace **localhost** with the appropriate URL of the nVision Server, e.g. 192.168.0.100:8081 in the local network.

Related topics

How to access nVision via Web browser? [622]

n ♥ Options			×
Seneral	SERVICE CONFIGURATION	(
MONITORING	Configure the status and parameters of HelpDesk service status:	v services.	
	SmartTime service status: AdminCenter service status:		
R SERVICE CONFIGURATION	Port number.	8081 🗘	
3 MAINTENANCE	Encryption: URL:	(None) http://192.168.40.88:8081	•
BLOCKADE MESSAGES	Additional diagnostic ports:	0	
FILE SCANNER			
HELPDESK			
			Obsolete services
			Obsolete services

10.2.2 HTTPS access

Requirements:

- An up-to-date certificate issued for the domain, where the HelpDesk is available, is a necessary prerequisite.
- The certificate must include a private key:

😠 Certyfikat	×
Ogólne Szczegóły Ścieżka certyfikacji	
Informacje o certyfikacie	-
Ten certyfikat jest przeznaczony do:	
 Gwarantuje tożsamość zdalnego komputera Udowadnia Twoją tożsamość zdalnemu komputerowi 1.2.616.1.113527.2.5.1.3 	
* Więcej informacji można znaleźć w oświadczeniu urzędu certyfikacji. Wystawiony dla:	
Wystawiony przez:	
Ważny od 2016-02-04 do 2017-02-03	
P Masz klucz prywatny, który odpowiada temu certyfikatowi.	
]
ОК	

• The certificate must be installed in the personal certificate store of the server where Axence nVision® is installed (System Certificate Store / Local Machine / Personal). A certificate installed in the user store cannot be used to configure encrypted access to the HelpDesk.

How to install a certificate

1. Double-click the certificate file. The window as shown below will open. Chose local machine and click the **Next** button:

	x
💿 嵾 Certificate Import Wizard	
Welcome to the Certificate Import Wizard	
This wizard helps you copy certificates, certificate trust lists, and certificate revocation lists from your disk to a certificate store.	
A certificate, which is issued by a certification authority, is a confirmation of your identity and contains information used to protect data or to establish secure network connections. A certificate store is the system area where certificates are kept.	
Store Location Current User Local Machine	
To continue, click Next.	
🚱 Next Cancel	

2. Choose certificate-file path. Click the Next button,

×
📀 🍠 Certificate Import Wizard
File to Import
Specify the file you want to import.
File name:
C:\Users\Administrator\Documents\company-cert.pfx Browse
Note: More than one certificate can be stored in a single file in the following formats:
Personal Information Exchange-PKCS #12 (.PFX,.P12)
Cryptographic Message Syntax Standard- PKCS #7 Certificates (.P7B)
Microsoft Serialized Certificate Store (.SST)
Next Cancel
Next Cancel

3. Choose Personal from certificate stores list:

	x
📀 🔄 Certificate Import Wizard	
Certificate Store	
Certificate stores are system areas where certificates are kept.	
Windows can automatically select a certificate store, or you can specify a location for the certificate. Automatically select the certificate store based on the type of certificate Place all certificates in the following store Certificate store: Browse	
Select Certificate Store	
Select the certificate store you want to use.	
Personal ^ Trusted Root Certification Authorities Image: Certification Authorities Intermediate Certification Authorities Intermediate Certification Authorities Active Directory User Object V Trusted Publishers V Image: Comparison of the state of th	ancel
Show physical stores OK Cancel	

4. In order to verify the certificate:

launch	: mmc.exe							
File \	Add/Remove snap-in	\	Certificates	\setminus	Add \setminus	Computer	account	\setminus
Local	computer \ Finish							

	Console1 - [Console Root\Certificates (Local Computer)\Personal\Certificates]	_ 🗆 X
🚡 File Action View Favorites Wir	ndow Help	_ <i>5</i> ×
🗢 🔿 🖄 🖬 🖌 🖬 😖		
	ssued To Issued By Expiration Date Intended Purposes Friendly Name Status Certificate Templa	Actions
⊿ ☐ Certificates (Local Computer) ⊿ ☐ Personal	Certificate X	Certificates 🔺
Certificates	General Details Certification Path	More Actions 🕨
Trusted Root Certification Au Enterprise Trust		*.axence.net
 Intermediate Certification Au Trusted Publishers 	Certificate Information	More Actions 🕨
Untrusted Certificates	This certificate is intended for the following purpose(s):	
Third-Party Root Certification Trusted People	Ensures the identity of a remote computer Proves your identity to a remote computer	
 Client Authentication Issuers 	• 1.2.616.1.113527.2.5.1.3	
▷ Other People		
 Remote Desktop Certificate Enrollment Reques 	* Refer to the certification authority's statement for details.	
Smart Card Trusted Roots	Issued to:	
Trusted Devices		
	Issued by:	
	Valid from 2016-02-04 to 2017-02-03	
	You have a private key that corresponds to this certificate.	
	Issuer Statement	
	ОК	

To configure secure access to the HelpDesk, navigate to nVision and remote access settings in the menu: **Tools / Options / Remote web access**.

In the HelpDesk section, use the Encryption list to select the certificates installed on the server:

N Options				×
SENERAL	SERVICE CONFIGURATION Configure the status and paramete	re of services		
MONITORING	WebAccess Console	_		
	Service status: Port number:	8080 🗘		
SERVICE CONFIGURATIO	N HelpDesk & SmartTime HelpDesk service status:	×		
MAINTENANCE	SmartTime service status:	×		
BLOCKADE MESSAGES	Port number: Encryption:	8081 🜲	•	
LISER ACTIVITY	URL:	http://localhost:8081		
INVENTORY	API Server Service status:			
HELPDESK	Port number:	8082 🗘		
			<u>O</u> k	<u>C</u> ancel

After the certificate has been specified, the URL address of the HelpDesk will be automatically changed to *https://FQDN:port* – you have to configure FQDN to suit it to the actual DNS name (for which the certificate was issued) – preferably then copy the URL and see if it opens in the browser. If the test pass with success, then you can accept the **Options** window by clicking [OK] button and the URL will be sent to Agents.

10.2.3 Settings

In order to manage the HelpDesk settings, in the main nVision window expand the menu and enter **Configuration**, **HelpDesk** tab.

Settings are located in two groups:

- Core settings
- Ticket processing
 Field Description
 Custom title Enter the text to be displayed on the HelpDesk module login window. You can also choose a logo by selecting an image from the disk.

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Field	Description
Custom logo	Allows to download the graphics to be displayed as a logo on the HelpDesk interface.
Account self-registration	Users of the module can create accounts on their own by checking the field. Alternatively, the accounts can be created directly by the administrator.
Account activation mode	Active fields, if the users can create accounts on their own. Activation can be performed in one of the following ways:
	• None – the account is active once it has been created by the user.
	 Activation e-mail – to activate, click the link sent in an e-mail. This option allows the e-mail address given by the user to be verified.
	 Administrator activation – the account must be activated in nVision under the Users icon by checking the "Account activated" field in the respective line.

Image: Service configuration Image: Service configurati	HelpDesk chat	Check the field to ena	ble the chat feature in nVision HelpDesk.	
MONITORINS ACTIONS ENVICE CONFIGURATION MAINTENANCE BLOCKADE MESSAGES USER ACTIVITY INVENTORY HELPDESK CORE SETTINOS TICKET PROCESSING	nV Options			×
MONITORING ACTIONS SERVICE CONFIGURATION MAINTENANCE BLOCKADE MESSAGES USER ACTIVITY NVENTORY HelpDesk CORE SETTINGS TICKET PROCESSING	🦫 GENERAL		ndesk module	
Image: Actions Image: Service configuration Image: Maintenance Image: Blockade Messages Image: Blockade Messages Image: User Activity Image: NVENTORY Image: HelpDesk CORE SETTINGS Ticket PROCESSING	MONITORING			
 SERVICE CONFIGURATION MAINTENANCE BLOCKADE MESSAGES USER ACTIVITY INVENTORY HELPDESK CORE SETTINGS TICKET PROCESSING A count activation and activation by administrator No needed HelpDesk chat See also Configure URL adress for HelpDesk 			1 It will be displayed on title bar in web browser.	
BLOCKADE MESSAGES Juser ACTIVITY INVENTORY HELPDESK CORE SETTINGS TICKET PROCESSING See also Configure URL adress for HelpDesk	R SERVICE CONFIGURATION	Custom logo		
INVENTORY INVENTORS CORE SETTINGS TICKET PROCESSING Account self-registration Account self-registration Account activation mode Manual activation by administrator Send activation e-mail No needed HelpDesk chat See also Configure URL adress for HelpDesk	MAINTENANCE		🛇 HelpDesk	
INVENTORY INVENTORY HELPDESK CORE SETTINGS TICKET PROCESSING	BLOCKADE MESSAGES			
 INVENTORY HELPDESK CORE SETTINGS TICKET PROCESSING See also Configure URL adress for HelpDesk 		Account self-registration		
O HELPDESK CORE SETTINGS TICKET PROCESSING See also Configure URL adress for HelpDesk		Account activation mode		
CORE SETTINGS TICKET PROCESSING See also Configure URL adress for HelpDesk	D HELPDESK		No needed	
	CORE SETTINGS	HelpDesk chat	✓	
	TICKET PROCESSING	See also	Configure URL adress for HelpDesk	
Ok Casal				
			<u>O</u> k <u>C</u> anc	el

Related topics

Management and configuration

Diser management

User registration

W HelpDesk interface 371

10.2.4 E-mail settings

The HelpDesk module can automatically send e-mail messages about new trouble tickets and changes in tickets, and can also process the users' trouble tickets sent to the defined e-mail address.

Action-related notifications

The default option, **Options / HelpDesk / Ticket processing | Use nVision e-mail action for sending notifications about changes in tickets**, enables e-mail notifications to be sent according to action settings.

To change <u>action</u> settings, open **Tools and options / Manage actions**.

E-mail processing in HelpDesk

This option enables e-mail notifications about changes made in the tickets to be sent and also allows e-mail messages sent by users to the defined e-mail address to be processed. As a result of this, users can create new trouble tickets without access to the HelpDesk trouble ticket database. In order for the tickets to processed, the requester must have a unique e-mail address assigned to their account in nVision.

To use HelpDesk settings for e-mail processing:

- 1. Open the Options / HelpDesk / Ticket processing option.
- 2. Select the Use external e-mail account for processing tickets option.
- 3. Define the **E-mail address** where the trouble reports should be sent (address of the mailbox in which nVision HelpDesk will detect messages and use them as a basis to create a ticket).
- 4. Configure the incoming and outgoing mail server settings. To test the entered settings, click the **Test connection** button.

Opt	ions		
e.	GENERAL	HELPDESK	
٩	MONITORING	Configure notifications and ticket processing. Ticket processing	
€0	ACTIONS	Use Axence nVision e-mail action for sending notifications about changes in tickets. (i) You can configure e-mail action under actions tab.	
P	SERVICE CONFIGURATION	Use external e-mail account for processing tickets 1 This option allows processing incoming e-mail messages as tickets in helpdesk. It provides	
ગ	MAINTENANCE	e-mail notifications about changes in tickets. E-mail address: nvisiogwegwn@axence.net	
X)	BLOCKADE MESSAGES	Incoming mail server IMAP4	
e na	USER ACTIVITY	 For creating new tickets based on e-mail messages. Server: ssl0.ovh.net 	
	INVENTORY	Encryption: SSL/TLS Port: 993 User name: nvisiqwen@axen Password: ************************************	
0	HELPDESK	Test connection Outgoing mail server (SMTP)	
	CORE SETTINGS	For sending e-mail notification about changes made in tickets. Server. ssl0.ovh.net	
	TICKET PROCESSING	Encryption: SSL/TLS Port: 465	
		User name: nviswqeion@axe Password: *********** Test connection	
		<u>Q</u> k <u>Q</u> an	cel

Note!

All messages in the inbox of the e-mail address provided will be deleted! Create an account dedicated to ticket processing.

Related topics

Actions

Management and configuration 351

10.2.5 User management

362

Management of HelpDesk users is performed from the level of the User info window in nVision.

N User: Mikuz		-	• ×
Account: MIKU@WIN10 Role:	Create announcement v	User logged on: n/a Status: Waiting for data	
Image: second	ACCESS TO MODULES AND FEATURES		
SETTINGS	Access to devices ^O Full access Through maps and departments ^O Only selected maps and departments (24/24) Access to users ^O Full access Through groups ^O Only selected groups (76/76)		

User types - roles in HelpDesk system

💦 User: Mikuz							- 0	×
Account: MIKU@WIN10 R	ole: ADMINISTRATOR				Remote access	~	User logged on: WIN10, 192.168.69.20 Status: Working	
	ACCESS TO MODULES AND FEA	TURES						
III ACTIVITY	Console Network	Inventory 🛇 Users 🛇 DataGuard	💙 HelpDesk	SmartTime				
SCREENSHOTS	HelpDesk module managemen	t	~					
🐣 ASSETS	Access to settings Remote Access settings n	nanagement						
SOFTWARE	Section in user settings Desktop Preview settings							
EVENTS	Section in user settings	5	~					
U DATAGUARD	Access to features File manager Allows the use of the file manag							
A BLOCKADES	information window		_					
SETTINGS	Remote management tool Allows the use of the remote pro command execution and the dis	cess management, the remote	×					
	Additional Remote Access	to user's own device	×					
	Ticket system	 Administrator HelpDesk Staff End-user 						-
	Chat	Full access Technical support only No access	0					

The user role can be changed in the user information window, using **Permissions / HelpDesk** tab:

Туре	Description
End-user	Can create, edit and close tickets. Can see the articles published in the knowledge base and own tickets.
Help-Desk Staff	People who provide assistance. In addition to the above rights, they can change ticket status, delegate a ticket and remotely access the computer from which the ticket originated. They can also have assigned branches and trouble tickets from these branches will be automatically assigned to these people.
Administrator	A user of this type has the most extensive rights, can see and edit all tickets and options. Can manage messages and priorities, and is the only one who can send messages (described in section Messages [475]). The user also has all of the rights described above.

Account creation

Accounts can be created in a few ways:

- manually via the Administrator in nVision (all types) in the Users window, after clicking the Add button,
- via the Administrator by downloading the account list from Active Directory controller in the Users window, after clicking the Active Directory controllers button and configuring the domain controller,
- independently by the users (only "End-user" type) without additional account activation, with activation via e-mail, or with manual activation via the Administrator.

For more information on possible user account creation scenarios, see section User registration 373.

User data change

To change user data (e.g. in order to set up a new password):

- 1. In the Users window, double-click the line of the user to be edited.
- 2. Enter the new user data and close the window.

Note: Names and e-mail addresses of users of all types must be unique.

Related topics

Settings

- User registration
- Management and configuration 351

10.2.6 Priorities

Priorities allow the specification of the severity of the reported issue. The Administrator can manage the existing priorities and add new ones. When creating a ticket, User cannot select a priority - only Administrators and HelpDesk Employees may change this field. It is recommended to precede the

names with digits, setting the priorities in ascending or descending order, so that after alphabetical sorting, their order of importance can be still easily identified.

Note: exactly one default priority must exist at all times and cannot be deleted.

= 😫 HelpDesk	Q Enter a search phrase or	a ticket ID Advanced search	## \$ 🖵 (M)						
Dashboard	SYSTEM SETTINGS Categories Submission forms	Priorities (5) Add priority Use the following priorities to define the ticket urgency.							
Knowledge base	한 Priorities	HIGHEST							
Event log	Whistleblowers	11 Critical							
Reports		ii High	Edit Set priority as default Remove						
		Normal Default priority							
		ii Trival							
		II Low							
		LOWEST							
8 Absence plan									
Ticket visibility									
Ticket assignment									
Automations									
SLA metrics									
🚯 Settings	Anonymous ticket	English (US) 🔨	Help Center Share an opinion All rights reserved © 2022 Axence Sp. z o.o. Sp. J.						

Priorities are managed from the level of the HelpDesk web interface.

To create a new priority:

- 1. Go to Settings / Priorities tab.
- 2. Click Add priority button.
- 3. Enter a new unique priority name and click Add priority.

To edit a priority:

- 1. Go to Settings / Priorities tab.
- 2. Select Edit option for the priority you want to edit.
- 3. Enter the new priority name and click **Save changes**.

To change the default priority:

- 1. Go to Settings / Priorities tab.
- 2. Select the Set priority as default option for the priority which should be the default one.
- 3. Click the Set as default button.

To delete a priority:

- 1. Go to Settings / Priorities tab.
- 2. Select the **Remove** option for the priority to be deleted.
- 3. Confirm the priority deletion by clicking Remove priority.

Related topics

1 HelpDesk

Adding a ticket 387

10.2.7 Categories and folders

Categories and folders enable tickets and articles to be assigned to the issue types they belong to. For instance, the Administrator can create the "Network" folder and include categories related to network access issues, software issues, hardware issues, etc. in this folder.

While creating a trouble ticket, the user selects the existing category which best suits their problem from the list. At the beginning, only one category, **Default**, is available.

Folders are used for the further categorization of tickets. They allow the creation of visually separated groups to which you can add categories.

Note: there must be exactly one default category in the HelpDesk. The default category cannot be deleted.

= 🤃 HelpDesk	Q Enter a search phrase or	a ticket ID Advanced search	III 🗘 📮 (s)
Oli Dashboard) Tickets	SYSTEM SETTINGS Categories Submission forms	Categories (24) Add category Add folder Category and folder management. You can create a three-level folder structure and put categories into the folders.	
Knowledge base Event log	한 Priorities Q Notifications 영 Whistleblowers	E ^ C Software	_
Reports		# Applications # Ucenses	
		Controller Operating system	
		E License purchases	
		II A D Hardware	
Absence plan		# Other	
Ticket visibility		ii Computer	
Ticket assignment		ii Monitor	
Automations		E Smartphone	
SLA metrics		E IP phone	
Settings	Anonymous ticket	English (US) \land Help Center Share an opinion All rights res	erved © 2022 Axence Sp. z o.o. Sp. j.

Category management options

Adding categories

To add a category, log in to the HelpDesk module as the Administrator and then:

1. In the flyout menu on the left side of the window, click the Settings.

2. Display the category settings by clicking the Categories button (optionally - it should be displayed

by default when you click the Settings).

3. Click the Add category button.

4. Enter the unique category name in the **Category name** field (there cannot be two categories with the same name in the HelpDesk).

5. Select the appropriate Trouble ticket form from the list (by default, it is the Basic form).

6.	. Select the category folder from the list (optionally).								
7.	Enter the	category d	escription in th	ne Descr	iption field (optionally).				
8.	Click the	Add categ	ory button.						
=	🗘 HelpDesk	Q Enter a search phrase or	a ticket ID Advanced searc	th				ii ¢ ¢	⊋ (M)
	Dashboard Tekets Knowledge base Event log Reports Ansence plan Teket vusbility Teket assignment	SYSTEM SETTINGS	Categories (24)		ter Vef folder structure and put categories into the folders.				
۲			IP phone						
			II Printer						
ø	Settings	Anonymous ticket				English (US) 🔨	Help Center Share an opinion All rights reserved © 27	J22 Axence Sp.	z o.o. Sp. j.
_	HelpDesk	0.000	and and and and						2.00
2 3 3 3 2 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4	Errepoles K pressure pressure pressure pressure pressure pressure pressure pressure pressure pressure pressure pressure pressure pressure pressure pressure pressur	C., Carlos a survival processor PSTEM SETTING Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company	Categories Addir Categories and a second and	ng a category • Category name: • Submission form: Category folder: Description:	Enter a unique category name Basic form Choose a folder or leave the field blank Enter a category description Add category Cance				
12 18			E Snatyhore						
0			1 Pyters						
0									

Editing categories

To edit a category, log in to the HelpDesk module as the Administrator and then:

1. In the flyout menu on the left side of the window, click the Settings.

2. Display the category settings by clicking the **Categories** button (optionally - it should be displayed by default when you click the Settings).

3. Hover over the category you want to edit and then click the **Edit** button.

4. Enter the unique category name in the **Category name** field (there cannot be two categories with the same name in the HelpDesk).

5. Select the appropriate Trouble ticket form from the list (by default, it is the Basic form).

6. Select the category folder from the list (optionally).

7. Enter the category description in the Description field (optionally).

8.	Click the	Add catego	ry button.	
=	🗘 HelpDesk	Q Enter a search phrase or a	Icket ID Advanced search	
IJ	Dashboard Tickets Knowledge base	SYSTEM SETTINGS Categories 오ubmission forms 화 Priorities	Categories (24) Add category Add folder Category and folder management. You can create a three-level folder structure and put categories into the fo E	ders.
5	Event log	 Notifications Whistleblowers 		
	Reports		H Applications	
			ii Controller	Edit Set category as default Remove
			Operating system	Click to edit
			License purchases	I
			II A D Hardware	
			ii Other	
යිම	Absence plan		II Computer	
(Ticket visibility		ii Monitor	
	Ticket assignment		H Smartphone	
	Automations		IP phone	
	SLA metrics		II Printer	
Ø	Settings	Anonymous ticket		English (US) 🔨 Help Center Share an opinion All rights reserved © 2022 Axence Sp. z o.o. Sp. J.
-	HelpDesk	Q, Enter a search phrase or a	Marriel auth	
68		SYSTEM SETTINGS	Editing categories	×
C13			Category name: Controller	
		 Process Institutions 	* Submission form: Basic form	·
		Q montoes	Category folder: 🗅 Software	×
8			Description: Enter a category description	
			Save changes Cancel	
			E Literat portant	
			I A D rations	
			1 Ore	
80			1 Grepher	
()			1 Mater	
R.			1 Seather	
8			E - Piptone	
4			1 here	
0				English 2010 A 1 Help Garter There an operant. All rights reserved in 2022 Assess (p. 2 to 5 (p.)

■ Setting the default category

To set a category as the default one, log in to the HelpDesk module as the Administrator and then:

1. In the flyout menu on the left side of the window, click the Settings.

2. Display the category settings by clicking the **Categories** button (optionally - it should be displayed by default when you click the Settings).

3. Hover over the category you want to be the default category and then click the **Set category as default one** button.

4. In the Setting the default category window, click the **Set as default** button.

= 😫 HelpDesk	Q Enter a search phrase or a ticket ID	Advanced search	## \$ \$ \$	9
Dashboard))) 기 Tickets	Categories	egories (24) Add category Add folder vy and folder management. You can create a three-level folder structure and put categories into the folders.		
Knowledge base	碰 Priorities Q Notifications	∧ □ Software		
Event log	+ Whistleblowers	H Applications		
Reports		E Licenses		
		ii Controller		
		Operating system		
		Edt: St	et category as default Remove	
		∧ □ Hardware		
		H Other		
Absence plan		H Computer		
Ticket visibility		Montor		
Ticket assignment		I Smartphone		
Automations		IP phone		
SLA metrics		II Printer		
ැරිූා Settings	Anonymous ticket	English (US) 🔨 i Help Center i Share an opinion i All righ	ts reserved © 2022 Axence Sp. z o.o. Sp.	J.
HelpDesk	C, Enter a search phrase or a tichet ID system settends Cat	Setting the default category ×		
[] mass	Categories	Do you want to set License purchases as the default category?		
The second states in the second	 Partie Nations 	Set as default Cancel		
E3 tooting	Q Problems	Click to set as default		
D Reports		1 see		
		I Consular		
		1 Opening system		
		E Garan portuan		
		A 🖸 return		
		i ov		
Sp. Anness plan		i Grane		
De trans outers		1 1000		
[2] Talast assignment		E Snaphus		
S Addressions		1 Apres		
A stress		1 Mar		
0	Anonymous ticket	English (St. A		

Deleting a category

To delete a category, log in to the HelpDesk module as the Administrator and then:

1. In the flyout menu on the left side of the window, click the **Settings**.

2. Display the category settings by clicking the **Categories** button (optionally - it should be displayed

by default when you click the Settings).

3. Hover over the category you want to edit and then click the **Delete** button.

4. In the category deletion window, click the **Delete** button.

= 🗘 HelpDesk	Q Enter a search phrase or	a ticket ID Advanced search 🚟 🗘 🖵 🔞
Oi Dashboard	SYSTEM SETTINGS	Categories (24) Add category Add folder
Tickets	Categories Categories Submission forms	Category and folder management. You can create a three-level folder structure and put categories into the folders.
Knowledge base	한 Priorities	II ^ D Software
Event log	() Notifications 중 Whistleblowers	Applications
Reports		E Lienses
		Econtroller
		E Operating system
		E License purchases
		II A D Hardware
		Edit Set category as default Remove
Absence plan		ii Other
Ticket visibility		E Computer
🛒 Ticket assignment		E Montor
Automations		E Smartphone
SLA metrics		H IP phone
💮 Settings	Anonymous ticket	English (US) 🔨 i Help Center i Share an opinion i All rights reserved @ 2022 Avence Sp. z o.o. Sp. j.
= 🕀 HelpDesk	Q, Enter a search phrase or	annen Menederant 🗮 û 🗣 🖲
E Contraret	SYSTEM SETTINGS	Removing a category ×
CD man	Campres	Do you want to irreversibly delete category Router?
E transferige base	 Provinsi Notifications 	Cancel Remove category
E3 teaching	· ····································	Click to delete a category
B Asperts		1 mm
		1 Gentle
		1 dented law
		1 tanapatan
		I A D reduces
		1 har
By Alexandra plan		1.004
Be take only		i Greater
[2] Tabel anguages		1 Mar
S Adventions		1 Snaphus
Ø stress		i types
0	Anarymous Schot	English (E. H. Hang Gener, Hang an approximate of 2011 Annual (p. 111. (p.)

The procedure of adding, editing or removing folders is similar.

It is also possible to assign HelpDesk- or Administrator-type users to a specific category, so the tickets of the given category are automatically forwarded to them. For more information see section <u>Assigning</u> <u>users to categories</u>.

Category description in HelpDesk

In Axence nVision® version 13, the categories that appear in the HelpDesk have been expanded by adding the optional parameter named **Description**. The category description allows for the additional explanation of the specific category, which makes it much easier for the user to add a new trouble ticket, or, for instance, a GDPR clause or other useful information can be included in the description. The category description in the HelpDesk is displayed in several forms, for instance

- a. as information that appears next to the category name and
- b. as a tooltip that appears when you hover over the relevant icon.

The category description may contain more than one character.

Examples of category description in the HelpDesk:

- 1. Category list in the Settings
- 2. Drop-down category list in the trouble ticket adding panel
- 3. Ticket list (with the table view configured accordingly)
- 4. Drop-down list in the browser

Related topics

- HelpDesk 350
- Maing a ticket
- Adding an article 421
- Distance in the second second

10.2.8 Trouble ticket forms

Forms allow different scenarios to be configured upon creating a trouble ticket. When creating a trouble ticket, the user selects the category which is most applicable to the severity of the problem from the list. If the relevant trouble ticket form is assigned to this specific category in the system, the page will be updated to include additional fields that will facilitate the identification of a problem and its solution. The Administrator can manage the existing forms and add new ones.

Note: exactly one default priority must exist at all times and cannot be deleted.

= 🤃 HelpDesk	\bigcirc Enter a search phrase or a ticket ID		Advanced search						, Q	M
GH Dashboard	SYSTEM SETTINGS Categories Submission forms		ion forms (1) Add form							
Knowledge base	Priorities Notifications	FORM NAME		CATEGORIES	AUTHOR	LAST UPDATE	ACTIONS		0	
Event log	Hothcations	Basic form		Domains - configu 🗸						
Reports		Printer		Printer	Stephen	a few seconds ago				
Absence plan										
Dicket visibility										
Ticket assignment										
Automations										
& SLA metrics										
🚯 Settings	Anonymous ticket				English (US) 🔨	Help Center Share an opinio	on All rights reserved	© 2022 Axen	ce Sp. z o.(o. Sp. j.

To create a new trouble ticket form:

- 1. Go to the Settings / Trouble ticket forms tab.
- 2. Click the Add form button.
- 3. Enter the form name and specify the additional fields to appear when creating a trouble ticket.
- The additional fields may take different types:
- text/numeric field,
- date,
- single- or multiple-selection list.

It is also possible to specify a default value, tips for the user or requirement for a specific field to send the ticket.

4. Select the categories in which this form will be used.

= 🤁 HelpDesk	Q Enter a search phrase or a ticke	et ID Advanced	search			III 🗘 🖵 M				
Gil Dashboard	SYSTEM SETTINGS	< Editing a tic	ket form							
Tickets	Categories									
Knowledge base	하고 Priorities	GENERAL								
EXent log	Notifications Whistleblowers	 Form name: 	Printer							
Reports		ADDITIONAL FIELDS								
			c form (with fields Subject and Descriptio							
		ORDER	FIELD NAME	ТҮРЕ	REQUIRED					
		⊞ 1	Empty toner?	Selection list	\checkmark					
		11 2	Paper stuck?	Selection list	\checkmark					
		Add a new field								
Absence plan		CATEGORIES Select categories that will i	se this form. Categories marked with the	icon 🔒 already have a non-basic form assigned.						
🔯 Ticket visibility		Printer x All categories All categories								
Ticket assignment										
(automations		Save changes	incel							
SLA metrics										
🚯 Settings	Anonymous ticket				English (US) 🔨 Help Center Share an opinion All rights resi	erved © 2022 Axence Sp. z o.o. Sp. j.				

5. Click **Add form** to complete the adding of a new form.

To edit a trouble ticket form:

- 1. Go to the Settings / Trouble ticket forms tab.
- 2. Select Edit option for the form you want to edit.
- 3. Enter the new form name and modify the fields that you are interested in, then click Save changes.

To delete a trouble ticket form:

- 1. Go to the Settings / Trouble ticket forms tab.
- 2. Select the **Remove** option for the form to be deleted.
- 3. Confirm the form deletion by clicking Remove priority

10.3 HelpDesk interface

10.3.1 Starting the HelpDesk interface

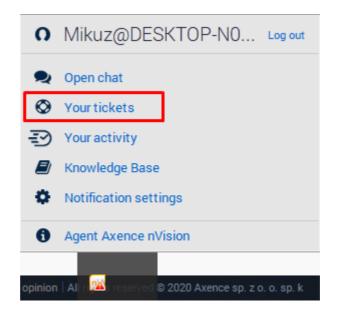
The HelpDesk interface can be started in several ways:

In the main nVision window

Click HelpDesk. The HelpDesk interface will be opened in the default browser.

From Agent

Right-click the Agent icon in the task bar. A menu similar to the one below will be opened. The displayed options depend on the Agent settings. If you do not see the options related to the HelpDesk module, you need to <u>enable the HelpDesk in Agent settings</u> [35^t]. Select the **Log in to HelpDesk** option.



Directly in the browser

Enter or copy the HelpDesk system's URL address into the browser or click the link (e.g. sent by email). The HelpDesk's URL address can be found by expanding the **Tools / Options / Services configuration** menu in the main nVision window.

	HelpDesk
Logging in HelpDesk	n to the system Axence nVision
· Login: Password:	Enter a user name or e-mail address Password
7/10	Have you forgotten your password?
	You do not have an account? <u>Beginter</u>
Anonymous ticket	English (US) A I All right reserved @ 2022 Avience Sp. z.o.o. Sp. j.

Related topics

- Management and configuration
- Settings
- User registration
- Logging in 375

10.3.2 User registration

Possible user registration scenarios

Accounts for Administrator and HelpDesk (technical support) users can only be set up by the Administrator (also by the <u>synchronization with Active Directory</u> [362]). In the case of self-registration by the user, only an end user account can be created. The account type can be later modified by the Administrator.

By the Administrator

To create a user account (of any type):

- 1. In the main nVision window go to the **Users** window.
- 2. In the Users tab, click the ^① Add button.
- 3. Enter the username and password for the entered user.
- 4. Define the user's Role (User, HelpDesk, Administrator).
- 5. Set the account as **enabled**.
- 6. You can enter the user details (e-mail, full name), and also other rights, depending on the defined user type.

Self-created by users, activated by the Administrator

Configuration:

- 1. In the main nVision window, expand the menu at the **HelpDesk** button, open the **Configuration** / **Core settings** option.
- 2. Check the Account self-registration field.
- 3. In the Account activation mode field, select the Manual activation by administrator option.

To create a user account:

- 1. <u>Run the HelpDesk interface</u> [371]. If a user is not logged in, the HelpDesk interface login window will appear.
- 2. Click Register button.
- 3. In the user registration dialog box, enter your E-mail address, which is also the interface login.
- 4. Enter **Password** and **Full name**.
- 5. Click **Register** button.
- 6. You can log in to the system when the administrator activates the newly created account.

Self-created by users, activation by e-mail

Configuration:

1. In the main nVision window, expand the menu at the **HelpDesk** button, open the **Configuration / Core settings** option.

- 2. Check the Account self-registration field.
- 3. In Account activation mode field, select the Send activation e-mail option.

To create a user account:

- 1. <u>Run the HelpDesk interface</u> [371]. If a user is not logged in, the HelpDesk interface login window will appear.
- 2. Click Register button.
- 3. In the user registration dialog box, enter your E-mail address, which is also the interface login.
- 4. Enter **Password** and **Full name**.
- 5. Click Register button.
- 6. An activation e-mail will be sent to the entered e-mail address. To complete the registration process, you need to click the link in the e-mail. You can now log in to the HelpDesk interface.

Self-created by users, without account activation

Configuration:

- 1. In the main nVision window, expand the menu at the **HelpDesk** button, open the **Configuration** / **Core settings** option.
- 2. Check the Account self-registration field.
- 3. In the Account activation mode field, select No needed option.

To create a user account:

- 1. <u>Run the HelpDesk interface</u> [371]. If a user is not logged in, the HelpDesk interface login window will appear.
- 2. Click **Register** button.
- 3. In the user registration dialog box, enter your E-mail address, which is also the interface login.
- 4. Enter **Password** and **Full name**.
- 5. Click Register button.
- 6. After the data is confirmed as valid (the e-mail address is unique and the password length is at least 8 characters), a registration completion message will appear. You can now log in to the HelpDesk interface.

		HelpDesk		and the second second	
Register HelpDes	in the sy k	/stem Axence nVision			
	* E-mail:	Enter your e-mail address			
		Your e-mail is used to log in to the system Axence nVision HelpDesk.			
	Password:	Password			
		Minimum password length is 8 characters.			
	Repeat the password:	Re-enter the password			
		Password must be identical to the previously entered one.			
* First and k	last name:	Enter your first and last name	×		
	Return to	the login page Register			
Anonymous ticket				English (US) 🔨 All	rights reserved © 2022 Axence Sp. z o.o. Sp. j.

Related topics

- Starting the HelpDesk interface
- User management
- Settings 358

10.3.3 Logging in

To log in to the HelpDesk interface:

- 1. Run the HelpDesk interface 371.
- 2. Enter **login** (username or e-mail address) and **password**. (If you enter the HelpDesk via the Agent, an attempt to auto-log in will be made.)
- 3. Click Log in button. If the entered data are correct, you can start using the HelpDesk interface.

	HelpDesk
Logging in HelpDesk	to the system Axence nVision
* Login:	Enter a user name or e-mail address
Password:	Password
	Have you forgotten your (password?
) You do not have an account? Register
Anonymous ticket	English (US) > 1 All rights reserved © 2022 Avence Sp. z.o.a. Sp. J

Logging out

To log out of the HelpDesk interface:

- 1. Click the avatar in the <u>user zone</u> [381] in the upper right corner of the HelpDesk interface.
- 2. Select Log out in the pop-up menu.

Related topics

Starting the HelpDesk interface

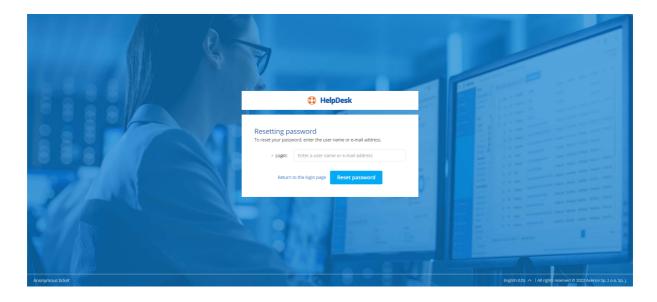
User registration

Dassword reset 376

10.3.4 Password reset

If the password has been forgotten:

- 1. <u>Run the HelpDesk interface</u> [371] and click the **Reset password** link.
- 2. To reset the password, enter the username or e-mail address which was used to log in to the HelpDesk interface.
- 3. Click **Reset password** button. If the entered data are valid, a message with guidelines will be sent to the e-mail address. Otherwise, follow the onscreen instructions.
- 4. Open your mailbox and click the password resetting link in the message received from the HelpDesk.
- 5. Enter a new password and **Save settings**. You can now log in to your account with the new password.



Related topics

Distarting the HelpDesk interface

User registration

Logging in 375

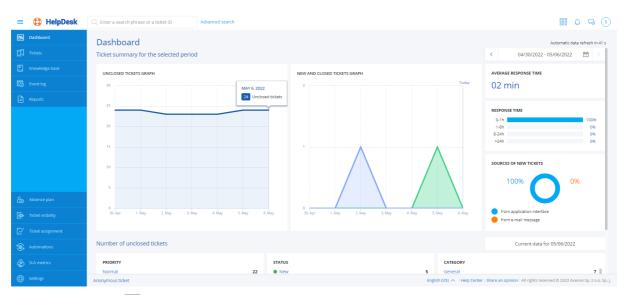
10.3.5 Main views

The main application views are ten views which can be opened by using the main navigation located on the left-hand side of the interface:

= 😫 HelpDesk	Q Enter a search phrase or	a ticket ID	Advanced	search				000	↓ ₽ (B)
Model Tickets Image: Construction of the second seco	Mytickets 1		:kets (1) 10 0	Add ticket SUBJECT Visual Studio Code license expired	CATEGORY O	LAST UPDATE \sim Yesterday at 1:13 PM	REQUESTER O	ASSIGNEE	© Auto-refresh Disabled ⊖
	STATUS New Kong Groups Supervised Code d Code d			how 25 * tickets per page					
	Collapse all	neweds from 1 to	inonii 3	and a per page					
	Anonymous ticket						English (US) 🔨	All rights reserved © 2022 /	ixence Sp. z o.o. Sp. j.

• Dashboard

General statistics about tickets are presented on dashboard, e.g. average response time, information about sources of new tickets, number of tickets by priority/status/category. A graph is also displayed, showing the number of tickets with a status other than "closed".



- Trouble ticket list 385
- Knowledge base 420
- Event log 424
- Reports 426
- <u>Trouble ticket assignment</u> 459
- Automations
 460

- SLA metrics 469
- Settings (Categories, Trouble ticket forms, Priorities, Notifications, Whistleblowers)

When a selected view is expanded, a quick preview column will appear. The quick preview options differ depending on which item was selected in the main navigation (trouble tickets, articles, etc.). The quick preview option allows for simple and rapid access to various trouble ticket threads, article types, etc.

Page titles are created dynamically, depending on the selected view options.

Related topics

- 1 Trouble tickets overview
- Mainte Strate A terring with the second strategy terring with the second strategy of the
- Matter Automations
- User zone
- Search bar 382

10.3.6 Text editor

The embedded text editor allows the entered article or ticket contents to be formatted.

Basic functions (adding/editing articles and trouble tickets)

Function	Description
В	Bold.
I	Italic.
$\underline{\mathbf{U}}$	Underline.
Ti	Text style (options: Small, Regular, Large, Very Large).
A	Text color (selectable after the menu at the button is expanded).
90	Embedding a link in the text. Click the icon and in the dialog box enter the URL address where the link will direct to, and the displayed link text.
1	Numbered list.
≡	Bulleted list.
c b	Retry/undo.

Function			Description
	0		Remove formatting.
≣	±	Ħ	Justification (options: left, center, right).
	>		Toggle between HTML and Rich Text.

Loading images (adding/editing articles)

To load an image into the article:

- 1. In the article adding [421] or editing [422] view, click the **Upload image** button.
- 2. In the dialog box select the image to be added.
- 3. You can add the image title and an alternative text shown in the place of the image, if it cannot be displayed.
- 4. Select the image justification style (default: left).
- 5. Click the Insert image button.

Adding an external video (adding/editing articles)

To add an external video to the article:

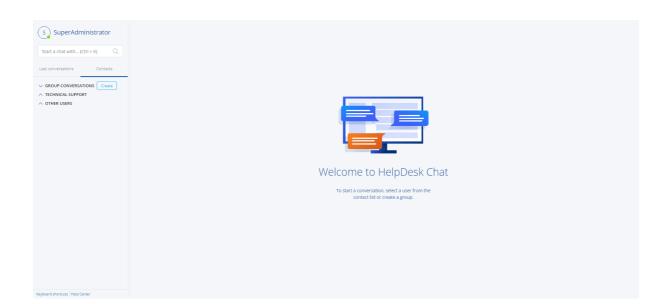
- 1. In the article adding 421 or editing 422 view click the **Insert video** button.
- 2. In the dialog box enter the link to the video.
- 3. Select the video justification style (default: center).
- 4. Click the Insert video button.

Related topics

- Adding a ticket
- Adding a comment
- Distance in the Adding an article
- Editing an article 422

10.3.7 Chat

Chat conversations can be initiated and received both with the use of the HelpDesk module in the browser and via the Agent. The functionality is identical in both cases. A conversation can be conducted between the users who are present in the list in the **Users** window (see <u>User management</u> 362).



Chat users

After clicking the **Chat** button (both in the browser and in Agent options), a window with three user groups is displayed:

Group	Description
Favorites	People added to the list of friend, i.e. marked with star $ \stackrel{}{\succ} .$
Technical Support	HelpDesk- and Administrator-type users (see <u>User management</u> [362]).
Other users	All types of users.

To add a user to your friends, click the star on the right-hand side of the username. From now on, the user will also be present in the friends (favorites) group. To remove a user from the friends list, click the star again.

□ Initiating a conversation from the HelpDesk interface

To use chat:

- 1. Log in to the HelpDesk interface. 371
- 1. Click the button in the upper right part of the window. The chat window will open. Users currently logged in to the HelpDesk are marked in green, users not logged in in grey.
- 2. Click the name of the user you want to talk to.
- 3. Type your message and press Enter. If the user is logged in (green in the user list), a chat window will appear on their desktop with the sent message.

Chat with the trouble ticket creator or with the person responsible for the ticket can be also initiated from the specific ticket by clicking the icon with the name of the appropriate user on the right of the ticket metrics.

■ Initiating a conversation from the Agent

Initiating a conversation:

- 1. Right-click the Agent icon in the task bar. A menu similar to the one below will be opened. The displayed options depend on the Agent settings. If you do not see the options related to the HelpDesk module and chat, enable the HelpDesk in Agent settings [351].
- 2. In the **Agent options** window select the **Open chat** option.
- 3. The chat window will open. It enables a conversation with another user to be started.

■ Answering a conversation

Answering a conversation - possible scenarios:

- If you have an open chat window with the user list and you receive a message, a window will open, which allows a conversation with the user who sent you the message.
- If the window is closed, but you are logged in to the HelpDesk from the Agent, and you receive a message, notification about the received message appears.
- If you are not logged in to the HelpDesk, the message will appear when you next log in.

Creating a group chat

To create a group chat, click the Create a new group chat link on the contact list.

During a private chat, you can create a group chat by clicking on the chart partner adding icon **the** in the upper part of the chat window.

Sending attachments

To send an attachment, click the attachment icon in the message entry field.

Sending attachments is an experimental function and it is not supported in group chats.

10.3.8 User zone

The user zone is the area in the upper right corner of the HelpDesk interface. It contains a universal user avatar, as well as additional information and actions available to the logged in user.

=	🗘 HelpDesl	C Enter a search phrase or a ticket ID	Advanced search				III 🗘 🖵 🌀
	Dashboard Tickets	Dashboard Ticket summary for the selected period	bd			< 04/30/2022	SuperAdministrator Administrator Dark mode Dark mode Dark mode
5		UNCLOSED TICKETS GRAPH	MAY 6, 2022	NEW AND CLOSED TICKETS GRAPH A MAY 2, 2022 C Created tickets	Today	average response time 02 min	Share an opinion Help Center Go Log out
		20	23 Undozed tickets	Create toots		RESPONSE TIME 0-11 1-80 8-241 >241 >241 SOURCES OF NEW TICKETS	100% 0% 0%
(5 0 30. Apr 1. Ukry 2. Ukry 3. U	tay 4. blay 5. blay 6. blay	20. Apr. 1. May 2. May 3. May	4. http:///5. http://6. http://	100% from application interfa from e-mail message	0% ce
		Number of unclosed tickets				Current data f	or 05/06/2022
-	SLA metrics Settings	PRIORITY Normal Anonymous ticket	status 22 New		5 General English (US) A Help Center	Share an opinion All rights res	7
Icc	n I	Description					

Click the avatar to expand a pop-up menu with the following options (depending on the user type):

- Help Center (Administrator and HelpDesk employee)
 - Change password
 - <u>Log out</u> 375

Click the icon to open chat 379.

The icon displays the number of new notifications related to changes in trouble tickets. Click the icon to display the new notifications (Administrator and HelpDesk employee).

Click this button to expand a list of available web modules. Click the module name to view the corresponding module, e.g. SmartTime

Related topics

Starting the HelpDesk interface

Main views 377

10.3.9 Search bar

The search field in HelpDesk module is located in the upper part of the window. The search is performed first in the view that is currently displayed. The scope of the search depends on the role of the user and his permissions regarding the visibility of tickets.

It is possible to search through submissions, comments, attachments and articles. Attachment search only searches attachment names in tickets, comments, and knowledge base articles.

=	😫 HelpDesk	Q Enter a sean	ch phrase or a ticket ID	A Basic search			Q (5)
OI	Dashboard	Search: [] Tic	:kets (0)	💬 Comments (0)		×	
C(1)		#ID:	Search	Û	What do you want to find?		
E		Subject:	Search	U	Please use the adjacent form.		
5		Description:	Search				
		Comment:	Search				
		Status:	Select •				
		Priority:	Select -				- 1
		Category:	Select				- L
		Requester:	Enter •				
		Assignee:	Enter 👻				
යි		Related device:	Enter				
Į.			Search				
R?				ii Monitor			
1				II Smartphone			
æ				II IP phone			
ങ	Settings						

Advanced Search

To use the advanced search, click **Advanced Search** at the top of the window. In the advanced view, outside the searched area of the system (Report List / Knowledge Base) you can specify additional parameters that will narrow the list of search results. Available parameters change depending on the searched area (notifications, articles, comments, attachments).

When using an advanced search engine with the option to search for applications, it is possible to define the following parameters:

- ID,
- Subject,
- Description,
- Comment,
- Status,
- Priority,
- Category,
- Requester,
- Assignee,
- Related device.

Related topics

Main views

User zone

ا³⁶² <u>User management</u>

10.4 Trouble tickets

384

10.4.1 Trouble tickets - overview

The trouble ticket database allows the users to report technical issues with use of the HelpDesk interface and via e-mail. The incoming tickets are processed and assigned to specific HelpDesk support employees who are notified about the assigned problems which need to be solved.

Each ticket is assigned to a specific category and has a priority defined to it. Ticket management and processing is simple due to the mechanism of statuses describing the ticket life cycle.

= 😫 HelpDesk	Q. Enter a search phrase or a	a ticket ID	Advanced se	earch				500 500	4 🖳 🖲
Tickets	VIEWS My tickets 1 Observed 1	All my tic		Add ticket	CATEGORY	LAST UPDATE \lor	REQUESTER	ASSIGNEE	⊗ Auto-refresh Disabled ⊖
	HLTERS STATUS New Support Support Cone Cone Cone Cone Cone Cone Cone Cone			Sugjet 1	Licenses	Yestenday at 1:13 PM	Bob	ASSRAFE Mateusz	0
	Collapse all Anonymous ticket	Tickets from 1 to	1 from 1 Sho	bw 25 • tickets per page			English (US)	First C	

Tickets statuses:

New - the ticket has been registered in system, but no action was performed by any user.

Open – the HelpDesk worker should update the ticket.

Waiting for response – the requester should update the ticket.

Suspended – ticket is set to suspended by HelpDesk worker (e.g. the issue should be discussed with third party).

Closed – the ticket has been closed by HelpDesk worker. Closed tickets cannot be deleted.

Related topics

- Starting the HelpDesk interface
- Ma Ticket list
- Distance in the text for the text of text
- Adding a comment
- Categories
- Priorities
- Editing a ticket subject
- Merging tickets

W VNC connection

Deleting a ticket 398

10.4.2 Ticket list

The ticket list is one of the main views of the HelpDesk interface. It shows information about trouble tickets sent to the HelpDesk system.

= 😫 HelpDesk	Q Enter a search phrase or a t	ticket ID Adv	Advanced search					
Knowledge base	VIEWS My tickets 1 Observed 1	All my ticket	S (1) Add ticket	CATEGORY	LAST UPDATE \lor	REQUESTER	ASSIGNEE	[⊗] Auto-refresh Disabled ⊖
	FILTERS STATUS New Supported Supported Calced Calce	sinius 10 ∲ 1654 }	Visual Studio Code Itoense expired	Licenses	Yesterday at 1:13 PM	REQUISIEN Bob	ASSIGNET	
	Collapse all	Tickets from 1 to 1 from	1 Show 25 🔻 tickets per page				First 🤇	> Last
	Anonymous ticket					English (US) 🔨	All rights reserved © 2022 A	kence Sp. z o.o. Sp. j.

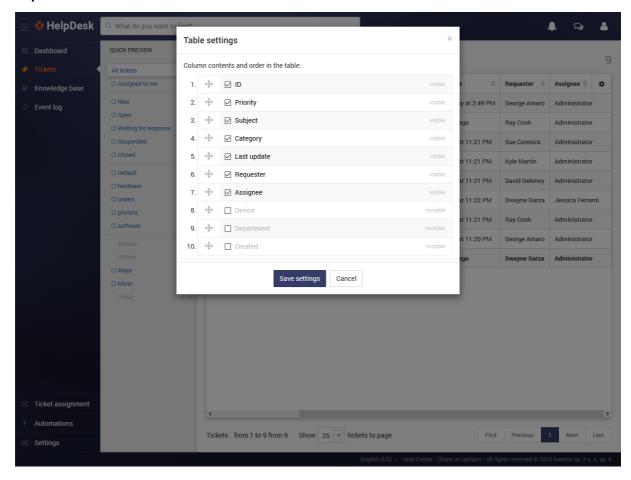
In the left part of the window, there is the main navigation (see <u>Main views</u>) and the quick preview column. The quick preview allows you to rapidly display a data set from the specific area of interest. For instance, you can display new highest-priority tickets, which additionally belong to one of two selected categories.

Ticket list table

The main part of the described view is the ticket list table. It contains the following columns:

- Status (color marking on the left-hand side of the table line)
- ID
- Date of <u>SLA</u> 469 violation
- Priority
- Ticket subject
- Category
- Related device (column hidden in the Administrator view)
- Department (column hidden in the Administrator view)
- Date of creation (column hidden in the Administrator view)
- Date of last update
- Full name of the assignee
- Full name of the requester

To select the displayed columns or their sequence in the table, click the table settings button [gear icon] in the upper right corner of the table. To sort the table contents by a given column, click the arrow at the column name. Below the table you can select how many tickets are to be displayed per page, and also go to the next pages.



Important: Unread tickets are in bold font.

Ticket preview

Click the ticket icon or line on the right-hand side of the interface to open a quick preview of the ticket. The quick preview displays the title and the short ticket excerpt, and the action block. The block enables you to quickly and comfortably add an internal or public comment to the ticket. Below, the last comments, short ticket summary and the navigation bar are shown.

Tickets							TICKET PREVIEW	
	All tickets	9	All tick	ets	Add ticket		MS Word crash	ing problem
Knowledge base	Assigned to me	8	Status ≑	ID 🔺	Priority \$	Subject	word is crashing c	
Event log	New	2	47	2	Minor	Printing issue	Post internal co	mment
Event log	🗆 Open	2	â	3	Major	MS Word crashing problem	Post Internal co	annient
	Waiting for response	2		3	мајог	MS word crashing problem		
	Suspended		47	4	Minor	new keyboard		
	Closed	2	47	5	Minor	cannot login to webportal		☑ Internal Comme
	Default	3	47	6	Minor	email automatic response	Administra	tor, 2 minutes ago wrote:
	hardware	1	_				Could you send me	
	orders	1	1	7	Minor	Applications keep crashing		
	 printers software 	3	47	8	Minor	slow download		
			47	9	Minor	"There is a problem with this website's security certific		
	Blocker Critical		47					
		2		10	Major	No response on call		
		7						
	Trivial							
							Status:	WaitingForResponse
							ID:	3
							Direct link:	http://192.168.0.97:8081/#/hel
							Created:	Last Sunday at 2:52 PM
							Last update:	2 minutes ago
Ticket assignment							Requester:	📥 Ray Cook
			<				Assignee:	Administrator

To go the detailed ticket view at once, click its subject.

Related topics

Starting the HelpDesk interface

1 Trouble tickets - overview

Main views

Maing a ticket

Adding a comment

Categories

Priorities 363

10.4.3 Adding a ticket

To create a new trouble ticket in the HelpDesk interface:

- 1. In the **Tickets** view click the **Add ticket** button.
- 2. Enter the **Subject** of the ticket.
- 3. Enter the **Description** of the issue in the embedded text editor 378.
- 4. You can <u>Add attachment</u> 393 to the ticket.

- 5. You can Add screenshot 333 if the Agent is installed on the device.
- 6. Fill in the **Requester** field (Administrator and HelpDesk employee may create a ticket on someone's behalf).
- 7. In the **Assignee** field use the list to select the person to whom the ticket is to be assigned (optionally).
- 8. Set the ticket's **Category** by selecting one of the available categories from the list. You can <u>add a</u> <u>new category</u> [365] without interrupting the article creation process.
- 9. Set the ticket's **Priority** by selecting one of the available priorities from the list. You can <u>add a new</u> <u>priority</u> without interrupting the article creation process.
- 10. Use the list to select the **Related device** which the ticket relates to (optionally).
- 11. After the ticket creation is complete, click the **Add ticket** button.

=	😫 HelpDesk	Q Enter a search phrase or a ticket ID	Advanced search	iii 🗘 🖵 🕥
Gi	Dashboard	Adding a ticket		
[]]J				
—		* Category: Select ca	gory •	
5		* Subject: Enter a	tet subject	
		* Description: B	E E F F C D E E E E E E	
		Attachmen	O (up to 20MB) C Add screenshot	
		* Requester: (S) Sup	Administrator 👻	
		Assignee: Enter a	Y •	
0		Priority: Normal	rfault) 👻	
(Related device: Enter a	ated device 👻	
C?		Add ticket Cancel		
۲		Concer		
È				
63		Anonymous ticket	English (US) 🔨	Help Center Share an opinion All rights reserved © 2022 Axence Sp. z o.o. Sp. j.

Related topics

- Wastarting the HelpDesk interface
- 1 Trouble tickets overview

Dicket list

Maing a comment

Merging tickets 397

10.4.4 Ticket visibility settings

The ticket visibility settings allow the ticket access restrictions to be configured for users with the **HelpDesk Employee** role.

You can check the current configuration in the **Ticket visibility** tab. The list will show all users with the **HelpDesk Employee** role:

Default settings

You can configure the default rights. They will be assigned to each new user who is granted the HelpDesk Employee role for the first time. If the default rule is edited, the users who have already been granted this role do not receive it in its updated form.

To edit the default settings, select the Set the default rule item:

The ticket visibility rule has the following configuration options:

- 1. Full visibility selected user will have access to all trouble tickets
- 2. Restricted visibility selected user will have access to tickets which **satisfy conditions**. The following conditions are available:
 - Ticket category is equal to or is not equal to the selected category,
 - The reporter belongs to or does not belong to a specific group

The administrator can specify how many conditions (one or both) must be satisfied for the rule to work.

Editing a visibility rule

Each visibility rule can be edited. To edit a visibility rule, log in to the HelpDesk module as the Administrator and:

1. In the flyout menu on the left side of the window, click the **Ticket visibility**.

2. Select the HelpDesk Employee whose visibility rule you want to edit (when you hover over the field of the relevant HelpDesk Employee, the **Edit**, **Copy to...**, **Copy from default rule** buttons are displayed).

Click the Edit button	3.	Click	the	Edit	button	
-----------------------------------------	----	-------	-----	------	--------	--

4. Configure the visibility rule, and then click the Save button.

= 😫 HelpDesk	Q Enter a search phrase or a	a ticket ID	Advanced search	III 🗘 📮 🕥
Ol Dashboard	VIEWS	Ticket v	bility (3)	
🗂 Tickets	All 3		ticket visibility rules for the HelpDesk Staff. Set the default rule, whose settings will automatically be copied to each new HelpDesk Staff mem	ber.
Knowledge base		USER:	VISIBILITY RULE:	
Event log		Bob	Full visibility	
Reports		Devon	Full visibility	
		George	Expanded visibility: • requester belongs to a group: Development_nV	Edit Copy to Copy from the default rule Click to edit
Absence plan				
Ticket visibility				
Ticket assignment				
Octomations				
SLA metrics				
🚯 Settings	Anonymous ticket		English (US) 🔨 Help Cen	ter Share an opinion All rights reserved © 2022 Axence Sp. z o.o. Sp. J.

= 🔂 HelpDesk	C), Ertter a search please or a ticket the	Alamad and
B tettert	vews Tic	Ticket visibility rule for user George
Tablets Toconfector laws	100	Basic Can browse tickets in which the user is the reporter, the assignee or is on the list of observers
 Because the general sector of the sector of t		Expanded Can browse tickets in which the user is the reporter, the assignee or is on the list of observers, can additionally browse the tickets where:
Augusti		User is shown the following tickets: when Requester belongs to a group RB Development_rNV × Add a condition Full Can browne all tickets Save Cancel
By Alexandra plan		
p take only		
E Contractions		
S Admitters		
Contraction of the second		
0	Assegment licket	English (Ed), A

Once you have properly completed the steps above, the visibility rule for the specific HelpDesk Employee will be updated.

Copying a visibility rule

HelpDesk allows a visibility rule currently assigned to a HelpDesk Employee to be copied to another HelpDesk employee. To do this:

1. In the flyout menu on the left side of the window, click the Ticket visibility.

2. Select the HelpDesk Employee whose visibility rule you want to edit (when you hover over the field of the relevant HelpDesk Employee, the **Edit**, **Copy to...**, **Copy from default rule** buttons are displayed).

3. Click the **Copy to...** button.

4. In the ticket visibility copying window, select the HelpDesk employee to copy the rule to (you can select more than 1 employee), and then click the **Copy** button.

≡ 🛟 HelpDesk	Q Enter a search phrase or a	ticket ID	Advanced search	III 4 🖵 🤅
에 Dashboard 때 Tickets	VIEWS All 3	Ticket vis You can define th	bility (3) ticket visibility rules for the HelpDesk Staff. Set the default rule, whose settings will automatically be copied to each new HelpDesk Staff	member.
		USER:	VISIBILITY RULE:	
Event log		Bob	Full visibility	
Reports		Devon	Full visibility	Edit Copy to Copy from the default rule
		George	Full visibility	Click to copy the rule to the other users
Ticket visibility				
SLA metrics				

= 🕀 HelpDesk	C, Enter a search phrase or a licket ID	(decod sect) III & G G (s)
Destinant If Name If Name If Name If Name If Name If Name	VERNS Ticket	Tucket visibility Full visibility Copy the content of this rule to users: Enter a HelpDesk Staff member Copy Cancel
B Reverse plane B State makeling [27] State makeling B Antonicalistics B State makeling (20) State makeling		

Assigning the default rule

HelpDesk allows the default rule to be copied to any HelpDesk employee (whose visibility rule is different from the default rule). To do this:

1. In the flyout menu on the left side of the window, click the Ticket visibility.

2. Select the HelpDesk Employee whose visibility rule you want to edit (when you hover over the field of the relevant HelpDesk Employee, the **Edit**, **Copy to...**, **Copy from default rule** buttons are displayed).

3. Click the **Copy from** button.

If the default rule and the employee's rule are identical, the **Copy from default rule** button is gray.

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O Dashboard	VIEWS All 3	Ticket vis You can define th	bility (3) ticket visibility rules for the HelpDesk Staff. Set the default rule, whose settings will automatically be copied to each new HelpDesk Staff member				
Knowledge base		USER:	VISIBILITY RULE:				
Event log					Bob	Full visibility	
Reports		Devon	Full visibility				
		George	Expanded visibility: • requester belongs to a group: Development_nV	Edit Copy to Copy from the default rule Click to copy the settings from the default rule			
Absence plan							
Ticket assignment							
Automations							
SLA metrics							
🚯 Settings	Anonymous ticket		English (US) A Help Center	Share an opinion All rights reserved © 2022 Axence Sp. z o.o. Sp. j.			

10.4.5 Ticket processing

10.4.5.1 Adding a comment

To add a comment to the ticket:

- 1. In the **Tickets** view click the ticket you want to process.
- 2. Enter a comment in the embedded text editor are in the field below the ticket description.
- 3. You can Add attachment 333 to the ticket.
- 4. You can <u>Add screenshot</u> 333 if the Agent is installed on the device.
- 5. By default, the form is set to publish internal comments (orange background), which are visible only to Administrator and HelpDesk users. If a comment is to be visible to end users (white background), uncheck the **Internal** field. An end user can only add public comments.
- 6. You can add a link to the Knowledge Base article (only the Administrator and the Helpdesk support employee). To do this, click the **Select article** button and enter the title or select the article you want to sublink from the list. In this way, you can sublink multiple articles. To finish, click the **Select article** button.
- 7. To publish the comment, click the **Comment** button.

=	🔁 HelpDesk	C Enter a search phrase or a ticket ID Advanced search			III 🗘 📮 🕥	
01	Dashboard	Visual Studio Code license expired	Þ	TICKET SUMMA	RY	
ŊJ	Tickets	н	5	Status:	 New Open ticket 	
۳	Knowledge base	I got an email this morning saying that my license for Visual Studio Code has expired. I am currently implementing an important functionality for our release in May, so please purchase a new license and send it to me as soon as possible. Regards	8	Identifier:	Close ticket	
5	Event log	Bob	¢	Direct link:	http://192.168.4	
B	Reports	ATTACHMENTS(0)	0		Yesterday at 1:10 PM an hour ago	
		Comments (1) Ticket history	3	Category:	Licenses +	
			13-	Priority:	Normal (default)	
			3	USERS		
		Ucense <u>sent</u> via email <u>Cheers</u>	6 d. 3 hour(s) 37 min		B Bob	
				Requester: Assignee:	B Bob V	1
20	Absence plan	Attachments: 🎧 🖞 🖉 log is 2008) Internal 🕥 🗛 Add comment		0	You and 3 other	
(é)	Ticket visibility	Mateusz, Vesterday at 1:13 PM wrote:		PROCESSING TI	users	
R⁄	Ticket assignment	Mateuss, resteroay at 1:3 s with working on resolving your issue. You will almost certainly get a new license today! As soon as I receive a new activation key I will send it to you by e-mail.		Started:		
۲	Automations			Completed:		
È	SLA metrics			Work time:	-	
ŵ	Settings	Anonymous ticket English (US) A i Help Center i Share an	n opinion	ADDITIONAL IN All rights reserved		

Related topics

- Starting the HelpDesk interface
- Distance for the text of t
- 1 <u>Ticket list</u>
- لا <u>Adding an attachment</u>

10.4.5.2 Adding attachments and screenshots

To add a comment with an attachment to the ticket:

- 1. In the <u>Ticket adding</u> or 'Adding comment to a ticket' view click the \bigcirc icon.
- 2. In the dialog box select the file to be attached.
- 3. Enter a comment and click the **Comment** button.

To add a comment with a screenshot to the ticket:

- 1. In the <u>Ticket adding</u> or 'Adding comment to a ticket' view click the **icon**.
- 2. In the dialog box click the **Screenshot** button. An image of the user's desktop will be displayed. Click the **Done** button to attach the displayed screenshot to the comment.
- 3. Enter a comment and click the **Comment** button.

Note: A screenshot can only be added by the author of the ticket, if the Agent with the configuration enabling screenshots is installed on their machine.

To add a comment with a link to an article in the knowledge base to the ticket:

- 1. In the 'Adding comment to a ticket' view click the **icon**.
- 2. In the dialog box select the articles to be added to the comment. The selected articles will appear in the box. Click the **Add to comment** button to attach the selected articles to the comment.
- 3. Enter a comment and click the **Comment** button.

Note: The link to an article can only be added by a user with the Administrator or HelpDesk Employee role.

Related topics

- Distarting the HelpDesk interface
- Distance in the second second

1 Ticket list

- Distance Adding a ticket
- Adding a comment الآية Adding a comment

10.4.5.3 Editing a ticket subject

To change the ticket subject:

- 1. In the Tickets view, click the ticket to be processed.
- 2. Hover over the ticket subject, and then click the pencil icon next to the ticket subject.
- 3. Enter the new ticket subject in the dialog box.
- 4. Click the Save changes button.

Related topics

Starting the HelpDesk interface

1 Trouble tickets - overview

1 Ticket list 385

10.4.5.4 Multi-ticket operations

HelpDesk employees are able to simultaneously perform operations on multiple tickets.

To perform operations on a number of tickets at the same time, go to the ticket list. After selecting items from the list and clicking the **Actions** button, you can make a mass change to:

- Ticket status
- Category
- Priority
- Assignee

In addition, two other actions are available:

- Add comment
- Delete tickets

Moreover, you can add a comment to the selected ticket(s) or delete the selected ticket(s) (unrecoverable operation).

10.4.5.5 Closing a ticket

A ticket can be closed in two ways.

Closing from the ticket processing window.

To close a ticket, click the **Close the ticket** button on the right side of the window. The ticket closing window opens where the employee can specify the time spent on processing the ticket and add the last comment to the ticket:

Closing from the ticket list level

To close more than one ticket at a time, go to the ticket list. After the required items are selected, you can change the ticket status on a mass scale:

10.4.5.6 Editing ticket details

10.4.5.6.1 Setting the ticket processing time

Setting the ticket processing duration allows a retrospective performance analysis and the estimation of the time required to solve similar issues.

To set the ticket processing duration:

- 1. In the selected ticket view, in the **Processing time** section, click the pencil icon.
- 2. Enter the time for which the ticket was being processed.

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A state	Save changes Cancel		() Bob
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Ø stars			ticket with another
Q			

3. In the dialog box set the ticket processing time and click **Save changes** button.

Related topics

Starting the HelpDesk interface

1384 Trouble tickets - overview

10.4.5.6.2 VNC connection

Note: the remote access feature is visible only for devices supporting such a function.

To make a remote connection with the device, which the given ticket pertains to:

- 1. In the selected ticket view, in the **Additional information** section, click **VNC** button on the righthand side of the related device name.
- 2. In the dialog box select the user session which you want to connect to and click **Connect** button. As a result, a new browser tab with the remote connection will open.
- 3. To control connection options, use the menu in the upper right hand corner.

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	Dashboard	ک اندینا کا	Created: Last update:	Yesterday at 1:10 PM an hour ago	
ŊJ	Tickets	H B	Category:	Licenses	•
E	Knowledge base	I got an email this morning saying that my license for Visual Studio Code has expired. I am currently implementing an important functionality for our release in May, so please purchase a new license and send it to me as soon as possible. Regards	Priority:	Normal (default)	•
5	Event log	Bob	USERS		
₿	Reports	ATTACHMENTS (0)	Created by:	B Bob	
			Requester:	B Bob •	- 📮
		Comments (1) Ticket history	Assignee:	S SuperAdmi	
			Observers:	You and 3 other users	0
		License <u>sent</u> via emailit <u>Cheers</u>	PROCESSING T	IME	
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20	Absence plan	Attachments: 🏠 🗒 🔗 (up to 20146) Internal 🕥 🗖 Add comment	Work time:	- 0	
Ma.	Ticket visibility		ADDITIONAL IN	IFORMATION	
		M Mateusz, Yesterday at 1:13 PM wrote:	Related device:	DESKTO× 🔻	VNC
13/	Ticket assignment	Hi Bob, I am currently working on resolving your issue. You will almost certainly get a new license today! As soon as I receive a new activation key I will send it to you by e-mail.	Department:	-	
1	Automations		AVAILABLE ACT	IONS	
æ	SLA metrics		Print the tio Merge this	ket ticket with another	
			Delete ticke		
¢	Settings	Anonymous ticket English (US) A Help Center Share an opinion	All rights reserved	© 2022 Axence Sp. z o.o	o. Sp. j.

Related topics

Starting the HelpDesk interface

1384 Trouble tickets - overview

10.4.5.6.3 Related tickets

The HelpDesk system allows tickets to be related. Each relation connects exactly two different tickets.

Ticket relations can be created and deleted by any person with a HelpDesk Employee or Administrator role and are visible only for such users.

Information about related tickets is visible in the ticket summary(as the last option).

The HelpDesk system offers the following relation types:

• Association (the same content in both directions)

Ticket A is associated with ticket B

Ticket B is associated with ticket A

• Blocking

Ticket A blocks ticket B

Ticket B is blocked by ticket A

• Multiplication

Ticket A replicates ticket B

Ticket B is replicated by ticket A

Reason and effect

Ticket A is a reason for ticket B

Ticket B is an effect of ticket A

• Follow-up

Ticket A is a follow-up to ticket B

Ticket B is a followed up by ticket A

Creating and removing relations

To create a relation between tickets:

- 1. <u>Go to details</u> 394 for one of the tickets.
- 2. Click Add relation button in the Related tickets section.
- 3. Specify:
 - relation type,
 - the other ticket to be related with the current one,
 - optionally: relation description (memo).

4. Click the Add relation button.

= 🕀 HelpDesk	C. Enter a search phrase or a ticket D	Assessed search		_			🔳 🗘 🖼 🗊
B terthoard	C Visual Studio Code lice	Adding a relation		×		0	ROCESSING TIME
[] takes	н	Ticket Visual Studio Code license e	xpired				
E transferige land	I got an email this morning saying that my license	Type:	is related to the ticket	•	to please purchase a new		manne - P
ES terring	Icense and send it to me as soon as possible. Reg Bob	* Ticket:	Specify a ticket	×		8	DOITIONAL INFORMATION
D Reports		Note:					dentari 💭 DESKTO • 🥅
	ATTACHMENTS (I)			150 characters			
	Comments (1) Toket hotory	ſ	Cancel Add a relation			8 4	VALABLE ACTIONS
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							4.3 hearts) 34 min of metric time left for
S Adventors							e ticket solution letre Cost occelimente na robelgoarne
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0	Anonymous ticket				English (Life) A		

Additional information

- Each ticket can have a custom number of relations.
- Relations can be created and removed even when one or both related tickets are closed.
- Creating and removing relations does not generate notifications for any users participating in ticket processing.
- A ticket created by means of an e-mail message as a follow-up to a closed ticket (by responding to an e-mail notification) is, at the moment of creation, automatically related to the ticket, which is followed up. ("<follow-up> ticket is a follow-up to ticket <closed ticket>")
- Creating or removing a relation is not a ticket update and therefore does not change the last ticket update date and does not trigger automations.
- Removing a ticket appearing in any relations results in removing all such relations (regardless of their direction).

10.4.5.6.4 Merging tickets

Note: you can only merge tickets, which are not closed (i.e. their status is New, Open, Response pending, Suspended) and which originate from the same reporting person. The operation is irreversible.

To merge tickets:

- 1. In the **Tickets** view click the ticket which is to be merged with another ticket.
- 2. Click the **Merge this ticket with another** action in the ticket summary, in the **Available actions** section.
- 3. In the ticket merging dialog box specify the name or ID of the ticket which the current ticket will be added to.
- 4. Click the Merge tickets button.

Related topics

Starting the HelpDesk interface

1384 Trouble tickets - overview

10.4.5.6.5 Deleting a ticket

Note: only the Administrator user can delete tickets (which are not in "closed" status). Ticket deletion operation is irreversible.

To remove a ticket:

- 1. In the **Tickets** view click the ticket to be deleted.
- 2. Click the Delete ticket action in the ticket summary, the Available actions section.
- 3. In the ticket deletion dialog box click the **Delete** button.

Related topics

- Starting the HelpDesk interface
- 1384 Trouble tickets overview

10.5 Whistleblower Protection

10.5.1 Whistleblower Protection - introduction

As of 17 December 2021, in accordance with Directive 2019/1937 of the European Parliament and of the Council (EU) of 23 October 2019, the vast majority of companies and institutions will have to provide protection to their whistleblowers, i.e. individuals who, without any legal consequence, identify any irregularities that occur in the organization or establishment and report them using special procedures. These persons must be provided with confidentiality and personal data protection. Therefore, one of the new features in **Axence nVision® version 13** is the system for creating and processing anonymous tickets which meets the requirements of the above-mentioned directive.

NOTE! For anonymous tickets to work properly, you must correctly configure the HelpDesk in nVision®, as described further in this manual.

Adding an	anonymous ticket	×
ЗĞĻ	This ticket will remain anonymous and will not be associated with your account	
* Category:	Select category	٣
* Subject:	Enter a ticket subject	
* Description:		
(i)	Providing your contact information is not obligatory. This data will not be used by the system to send you any updates or notifications. Only people approved by the administrator will have access to this data and can use it to contact you directly. After creating the ticket you will not be able to follow its processing.	
Contact information:	Enter an e-mail address or a phone number	
	Add ticket Cancel	

The anonymous ticket setting panel - including, for instance, the legal materials to help implement appropriate procedures within your organization - can be found in the **Settings > Whistleblowers** section in the HelpDesk. The initial settings are available in two different configurations, depending on whether nVision has been previously used and updated to the latest version 13 or it is a new installation.

Current installations (update from an older version of nVision®)

To display the Anonymous ticket setting panel, log in to the HelpDesk module as the Administrator and:

- 1. In the flyout menu on the left side of the window, click the Settings.
- 2. Enter the whistleblower settings Whistleblowers.

If you have already used nVision and updated it to version 13:

- 3. An additional message will appear in the anonymous ticket setting panel.
- 4. The anonymous ticket creation option is **disabled** by default.

If you click the "Yes, enable" button below the message, the anonymous ticket creation option will be **enabled**.

In addition, the category named Violations (with the category description - Anonymous violation tickets) will be created in the HelpDesk.

If you click the "No, do not enable" button, the message will no longer be displayed, the anonymous ticket creation option **will not be enabled**, and no category named Violations will be created in the HelpDesk.

You will need to manually enable the anonymous ticket creation option and create the category for anonymous tickets.

New nVision® installations

To display the Anonymous ticket setting panel, log in to the HelpDesk module as the Administrator and:

1. In the flyout menu on the left side of the window, click the Settings.

2. Enter the whistleblower settings by clicking the Whistleblowers link.

If you have not used nVision yet (new installation of nVision version 13):

3. In the anonymous ticket setting panel, the category created in the HelpDesk, **Violations** (with description - Anonymous violation tickets), is automatically assigned to anonymous tickets.

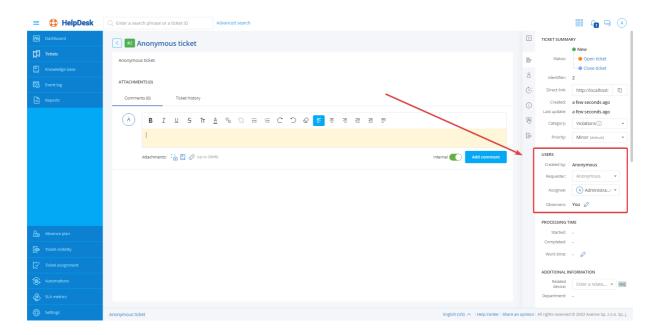
4. The anonymous ticket creation option will be **enabled** by default.

= 😫 HelpDesk	Q Enter a search phrase or a	a ticket ID	Advanced search			III 4 🤉 🔿
OH Dashboard	SYSTEM SETTINGS	Tools for	whistleblowers			
Tickets	Submission forms	Allow the crea	ition of anonymous tickets			4 🜑
Event log	Notifications Whistleblowers		ies that will be available for anonymous tickets			
		Violations () You can defin	• who can access anonymous tickets on the ticket visibility page.	8		
Absence plan						
Ticket visibility						
Ticket assignment						
Automations						
SLA metrics						
💮 Settings 🚺	Anonymous ticket				English (US) 🔨 Help Center Share an opinion All rights reserv	ed © 2022 Axence Sp. z o.o. Sp. j.

10.5.2 Restricting access to anonymous tickets

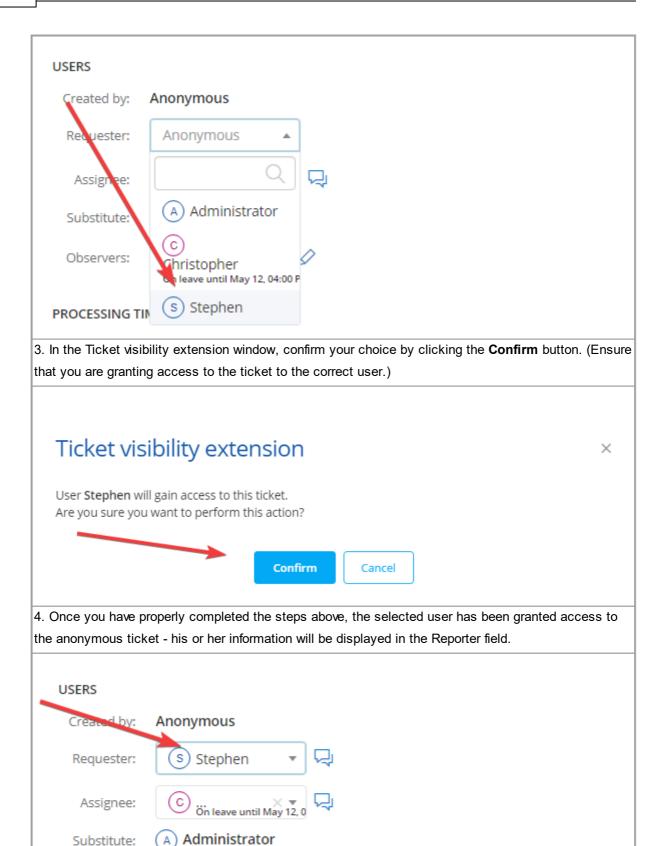
10.5.2.1 Anonymous ticket - restricted access

Since the Directive (EU) 2019/1937 of 23 October 2019 on the regulation of the legal status of the socalled whistleblowers applies, it is the primary responsibility of the employer to ensure the protection of the whistleblower's identity and to organize the process of receiving and processing tickets in a safe manner. Axence nVision® software includes tools that allow these requirements to be met in one of the modules on the Helpdesk. HelpDesk verifies on an ongoing basis that the user has access to a specific anonymous ticket. Access to an anonymous ticket can be granted from the ticket level by configuring the following fields: **Reporter**, **Assignee** or **Observers** (list of observers). If any change made to the ticket involves giving access to a user who has not previously had access to the anonymous ticket, the system will alert the user before the action is taken. The user who makes the change can read the message and decide whether they maintain their decision or maybe it is a mistake and the selected user should not be granted access to the anonymous ticket.



Giving access - Reporter

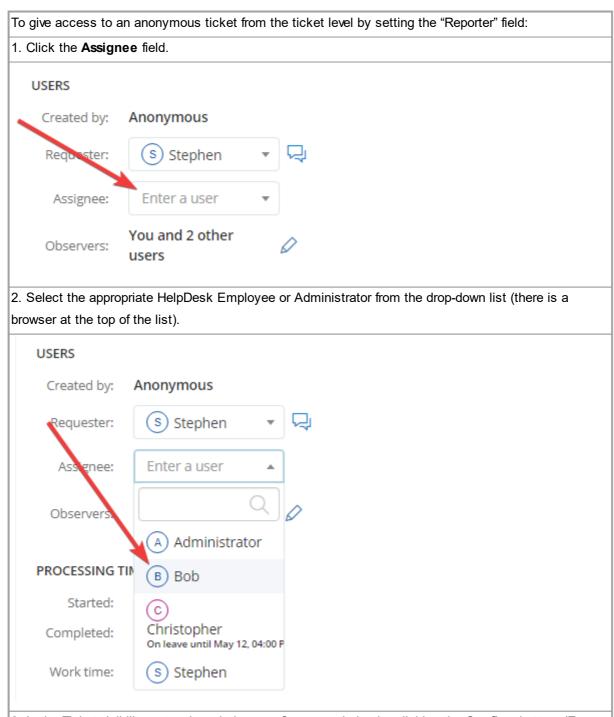
To give access to a	n anonymous ticket from the ticket level by setting the "Reporter" field:
1.Click the Reporte	ər field.
USERS	
Created by:	Anonymous
Requester:	Anonymous 👻
Assignee:	C X X X X X X X X X X X X X X X X X X X
Substitute:	A Administrator
Observers:	You and 1 other user 🖉
2. Select the user fi	rom the drop-down list (there is a browser at the top of the list).



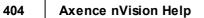
Observers:

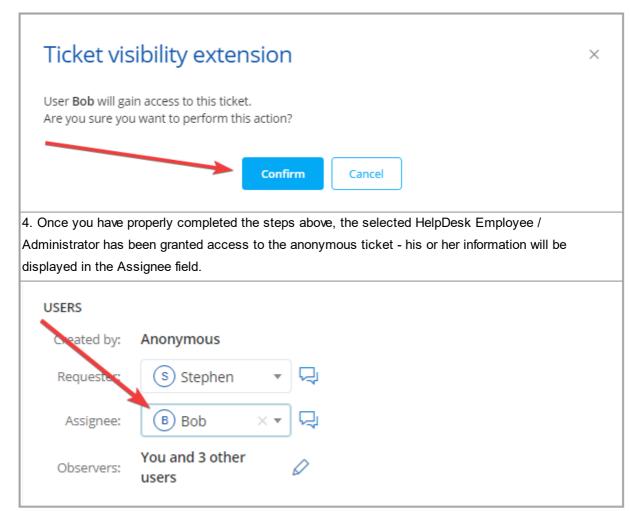
You and 2 other

users



3. In the Ticket visibility extension window, confirm your choice by clicking the **Confirm** button. (Ensure that you are granting access to the ticket to the correct assignee.)





Giving access - Observer

To give access to a	To give access to an anonymous ticket from the ticket level by setting the "Observers" field:					
1. Click the 🖉 id	con.					
USERS						
Created by:	Anonymous					
Requester:	S Stephen	▼ 只				
Assignee:	B Bob					
Observers:	You and 3 other users	\bigcirc				
2. Select the approp Appointing the tic		drop-down list (there is a browser at the top of the list) in the				

Change ticket observers	×
Select the users you want to set as ticket observers Anonymous ticket : Observers: A Administrator × C Christopher × S Stephen ×	
B Bob × R Robert ×	
User Robert will gain access to this ticket.	
Save changes Cancel	
3. In the Appointing the ticket observers window, confirm your choice by clicking the Save char button. (Ensure that you are granting access to the ticket to the correct assignee.) The selected us users will be displayed in the field. If the user you want to add to the list of the anonymous ticket observers does not have access to this ticket, a warning will be displayed.	ser or
4. Once you have properly completed the steps above, the selected user has been granted access the anonymous ticket - the number of observers will be displayed in the Observers field. To check t	
list of observers, click the 🧖 icon.	

Note! Anonymous ticket access is not granted from the ticket level only. The comprehensive protection of access to an anonymous ticket also requires configuration in other sections of the HelpDesk module:

- 1. Ticket visibility
- 2. <u>Ticket assignment</u>
- 3. Automations

User roles in HelpDesk - restricting access to an anonymous ticket

In nVision, we distinguish between the user roles and the roles in the Ticket system (HelpDesk). These roles are linked to each other, e.g. only a user with the Administrator or Super Administrator role can act as the Administrator in the HelpDesk. Depending on the user role and the HelpDesk role configuration, the ability to restrict access to an anonymous ticket may be disabled - this is the case with the Super Administrator role whose rights (except for a few exceptions) cannot be restricted in the entire nVision system.

Characteristics of the roles in HelpDesk - from the point of view of anonymous

tickets:

- 1. User the user with this role can add new anonymous tickets (if the feature is enabled). By default, the user does not have access to the anonymous ticket they have created themselves.
- 2. HelpDesk Employee the user with this role may be able to add new anonymous tickets and may also be designated to process anonymous tickets. To grant or restrict access to anonymous tickets, it is necessary to correctly configure the HelpDesk, including but not limited to the following sections:
- Ticket visibility
- Ticket assignment
- Automations
- 3. Administrator the user with this role has unrestricted access to all HelpDesk sections. The Administrator cannot have his access to anonymous tickets disabled or restricted.

Useful links:

User management 362

10.5.2.2 Anonymous ticket - ticket visibility

In the HelpDesk, in the **Ticket visibility** section, you can expand or restrict the ticket visibility to users with the HelpDesk Employee role, i.e. configure the parameters that are very important in the case of restricting access to an anonymous ticket.

The visibility rule configuration is divided into two main options:

- 1. Setting the default rule, i.e. the ticket visibility configuration which will automatically be assigned to new HelpDesk Employees.
- 2. Editing the visibility rule for a specific HelpDesk Employee.

= 🚯 HelpDesk	Q Enter a search phrase or a	a ticket ID Advanced sea	rch	iiii 4 📮 🖓
C Dashboard	VIEWS All 3	Ticket visibility (3) You can define the ticket visibility	1 rules for the HelpDesk Sta <mark>ff. Set the default rule, w</mark> hose settings will automatically be copied to each new HelpDesk Staff member.	
Knowledge base		USER:	VISIBILITY RULE:	
Event log		Bob	Basic visibility	
Reports		Christopher	Full visibility	2
		Stephen	Basic visibility	Edit Copy to Copy from the default rule
8 Absence plan				
🖗 Ticket visibility				
Ticket assignment				
Automations				
SLA metrics				
 Settings 	Anonymous ticket		English (US) 🔨 i Help Center i Sh	are an opinion All rights reserved © 2022 Axence Sp. z o.o. Sp. J.

In the visibility rule configuration window, three visibility levels can be distinguished:

- 1. Basic the HelpDesk Employee's ticket list will include the tickets for which the user is a reporter, assignee or observer
- 2. Extended the HelpDesk Employee's ticket list will include the tickets for which the user is a reporter, assignee or observer and the tickets where:
- a) Category is X
- b) Category is not X
- c) Reporter belongs to group Y
- d) Reporter does not belong to group Y

Two conditions concerning different parameters can be combined with each other in such a way that one or both the conditions have to be fulfilled to activate the visibility rule. For this purpose, the **or** and **and** conjunctions are used, for instance:

- The category is X AND the reporter belongs to group Y
- The category is not X OR the reporter does not belong to group Y
- 3. Full all tickets will be displayed in the HelpDesk Employee's ticket list

Ticket visibility rule for user Stephen

10	Basic Can browse tick	kets in which the user	is the rep	oorter, the assigne	e or is on th	e list of observers	
2 0	Expanded Can browse tick	ets in which the user	is the rep	oorter, the assigne	e or is on th	e list of observers, can additionaly browse	the tickets where
	User is shown	the following ticke	ts:				
	when	Category	Ŧ	is equal to	∇	Select categories	
		Add a condition					
3 0	Full Can browse all	tickets		Save	Can	rel	

An example ticket visibility configuration for a HelpDesk Employee whose task will be to proceed anonymous tickets could be like this:

Extended visibility rule - the HelpDesk Employee's ticket list will include the tickets for which the user is a reporter, assignee or observer and the tickets where the Category is <name of category for anonymous tickets>

Ticket visibility rule for user Stephen

Expanded	kets in which the user is the reporter, the assignee or is on the list of observers kets in which the user is the reporter, the assignee or is on the list of observers, can additionaly browse the tickets whe
User is shown	the following tickets:
when	Category
O Full Can browse all	Add a condition tickets Save Cancel

Important: please note that in addition to setting the appropriate visibility rule for the HelpDesk Employee whose task will be to proceed anonymous tickets, it is also important to ensure that other HelpDesk Employees do not have access to the anonymous tickets, e.g. through the "Full" ticket visibility rule.

Setting the default rule

To set a rule as the default one, log in to the HelpDesk module as the Administrator and:

- 1. In the flyout menu on the left side of the window, click the Ticket visibility.
- 2. Click the Set the default rule link.
- 3. Configure the visibility rule, and then click the **Save** button.

=	😫 HelpDesk	Q Enter a search phrase or a	a ticket ID Advanced searc	h		Q	
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			USER:	les for the HeipDesk Staff Set the default rule whose settings will automatically be copied to each new HeipDesk Staff member.			
		-	Bob	Basic visibility			
			Christopher	Full visibility			
			Stephen	Basic visibility			
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ŝ		Anonymous ticket		English (US) 🔨 Help Center Share an opinion All rights reserved	© 2022 Axence	50. z o.c	50. j.

Default ticket visibility rule

O Basic Can browse tick	ets in which the user is	the re	porter, the assignee	or is on th	ne list of observers
Can browse tick	ets in which the user is	the re	porter, the assignee	or is on th	ne list of observers, can additionaly browse the tickets where:
User is shown	the following tickets	5:			
when	Category	Ŧ	is equal to	~	Select categories
	Add a condition				
Full Can browse all t	ickets		★ Save	Can	cel

Once you have properly completed the steps above, the visibility rule in the HelpDesk will be updated.

Editing a visibility rule

To add a visibility rule, log in to the HelpDesk module as the Administrator and:

- 1. In the flyout menu on the left side of the window, click the Ticket visibility.
- Select the HelpDesk Employee whose visibility rule you want to edit (when you hover over the field of the relevant HelpDesk employee, the Edit, Copy to..., Copy from default rule buttons are displayed).
- 3. Click the Edit button.

Basic

4. Configure the visibility rule, and then click the Save button.

=	🔁 HelpDesk	Q Enter a search phrase or a	a ticket ID	Advanced search				# 4 <mark>2</mark>	Q (A
Gi	Dashboard	VIEWS	Ticket vi	ibility (3)						
		All 3			e default rule, whose settings will automatically be copied to ea	ich new HelpDesk Staff member.				
			USER:	VISIBILITY RULE:						
			Bob	Basic visibility						
	Reports			Full visibility						
			Christopl	Full Visibility					_	
			2 Stephen	Basic visibility			8 Edit Copy to Copy from	the default r	rule	
(1								
		Anonymous ticket				English (US) 🔨 Help Center	Share an opinion All rights reserved © 20	J22 Axence	Sp. z o.o. S	ip. j.

Ticket visibility rule for user Stephen

Once you have properly completed the steps above, the visibility rule for the specific HelpDesk Employee will be updated.

10.5.2.3 Anonymous ticket - ticket assignment

Ticket assignment rule configuration must be correct to properly restrict or extend access, among other things, to anonymous tickets. For more information on assigning tickets, click the link: <u>ticket</u> <u>assignment</u>.

≡	😫 HelpDesk	Q Enter a search phrase or a ticket ID		Advanced search	888 (2	R
	Dashboard Tickets	VIEWS All rules 1		assignment rules (1) Add rule		
	Knowledge base Event fog Reports	FILTERS	USER: Administra	AUTOMATICALLY RECEIVES NEW TICKETS:		
۲ ک		Collapse all	After ticket cre The algorithm s	CHANISM ACTIVATION SEQUENCE SEE ALSO Mon @ Execute automation > [2' Assign the ticket according to the rules Help center - Tic Nets the user who has the fewest unclosed tickets at the moment. If a few users have the same number of unclosed tickets, the person well ticket is the oldert will be selected.	Useful infor	mation \vee
¢		Anonymous ticket		English (US) 🔨 Help Center Sha	are an opinion All rights reserved © 2022 Axence	e Sp. z o.o. Sp. j.

10.5.2.4 Anonymous ticket - automations

The Automation section allows the effective and efficient anonymous ticket processing scheme to be created. You should be very careful when configuring automatic rules as you can mistakenly give access to anonymous tickets to someone who has not been designated to process them. For the guides on the main features of the Automation section, please refer to another part of this manual (links below).

Related topics:

- Matter Automation list
- Madding an automation 462
- Matter Automation conditions
- Automation actions
- 🔟 Editing an automation 🕬
- Distance in the section of the secti
- Deleting an automation 469

10.5.3 Anonymous Tickets

412

10.5.3.1 Launching Anonymous Tickets

The add anonymous ticket feature in the HelpDesk is not enabled permanently - depending on the rules applicable within the specific organization or institution, it may either be enabled or disabled. The anonymous ticket settings can only be configured by the user with the Administrator role in the Ticket system (HelpDesk).

W Axence nVision 13	V User: Bob		×	
Main Tools About nVision 🚳 Global search				
Generate MSI packages Print bar Asset R Asset R R R R R R R R R R R R R R R R R R R	Role: ADMINISTRATOR			
Inventory	4 GENERAL	ACCESS TO MODULES AND FEATURES		^
Devices Users Assets	the ACTIVITY	Console Network Inventory Users DataGuard HelpDesk SmartTime		
Q Search (Ctrl+F) All users Hierarchy	SCREENSHOTS	HelpDesk module management		Filter Q. Activity Last application tit Last page URL Last
Bourse nvision	👃 ASSETS	Access to settings Remote Access settings management		Least approximit Least approximit in Least page on L. Least
B⇒ SMART GROUPS	SOFTWARE	Section in user settings Desktop Preview settings management Section user settings		
	EVENTS	Access to features		
	DATAGUARD	File manager Allows the use of the file manager in remote access and in the device		
	A BLOCKADES	information window Remote management tools		
	SETTINGS	Allows the use of the remote process management, the remote command execution and the distribution tasks in HelpDesk		
	A PERMISSIONS	Remote access Allows remote access to devices of other users		
		Additional Remote Access to user's own device		
		Ticket system		
		Chat @ Full access		
		Technical support only O No access		
			Aktywuj system Przejdź do ustawień	i Windows , aby a ktywować system Windows.
What's new?				

To enable the Anonymous ticket feature, log in to the HelpDesk module as the Administrator and:

- 1. In the flyout menu on the left side of the window, click the Settings.
- 2. Enter the whistleblower settings Whistleblowers.
- 3. Click the slider.

=	🗘 HelpDesk	Q Enter a search phrase or	a ticket ID Advanced search		✓ Anonymous ticket creation was successfully enabled ×
Gi	Dashboard	SYSTEM SETTINGS	Tools for whistleblowers		
M	Tickets	Categories Categories Submission forms			
E	Knowledge base	Priorities Notifications	Allow the creation of anonymous tickets		
13	Event log	So Whistleblowers	CATEGORIES Select categories that will be available for anonymous tickets		
	Reports		Violations () ×	Save	
			You can define who can access anonymous tickets on the ticket visibility page.		
20	Absence plan				
1	Ticket visibility				
Ľ∕	Ticket assignment				
۹	Automations				
٨	SLA metrics				Aktywuj system Windows Przejdż do ustawień, aby aktywować system Windows.
63	Settings	A second second balance		For the second sec	

Once you have properly completed the steps above, a message will appear in the upper right corner of the window confirming that the creation of anonymous tickets has been enabled and on the left side of the footer a link which has not been visible so far will appear, i.e. **Anonymous ticket**.

You can disable the anonymous ticket creation feature at any time. To do this, click the slider again (if anonymous tickets are enabled). After clicking, a message confirming that the creation of anonymous tickets has been disabled and the Anonymous ticket link on the left side of the footer will disappear - creation of new anonymous tickets will not be possible from now on.

10.5.3.2 Configuring anonymous tickets

When configuring anonymous tickets, remember to select the appropriate category the anonymous tickets will be assigned to.

To select the <u>categories</u> that will be available when creating anonymous tickets, log in to the HelpDesk module as the Administrator and:

- 1. In the flyout menu on the left side of the window, click the Settings.
- 2. Enter the whistleblower settings Whistleblowers.
- 3. Click the field to the left of the **Save** button.

After clicking, a list of all categories that exist in the HelpDesk will drop down. Select the category (you can select more than one category) and confirm your selection by clicking the **Save** button.

= 🕻	HelpDesk	Q Enter a search phrase or a ticket ID		Advanced search			iii 42 🖵	
Gil Dasht		SYSTEM SETTINGS	Tools for	r whistleblowers				
[]]] Ticket		Categories Categories Submission forms Priorities	Allow the crea	ation of anonymous tickets)
Knowl	wedge base	Notifications			_			
Event	t log	So Whistleblowers	CATEGORIES					
Repor	rts		Select categor	ries that will be available for anonymous tickets				
			Default (default)					
			Violations	0				
2⊗ Abser	nce plan							
joo Ticket								
Ticket	t assignment							
🛞 Auton	mations							
🚷 SLA m	netrics							
🔅 Settin	ngs	Anonymous ticket				English (US) 🔨 Help Center Share an opinion All rights re	served © 2022 Axence Sp. z o.o). Sp. J.

Anonymous tickets - no dedicated category

In the HelpDesk, the anonymous ticket settings allow for a situation where no specific category is assigned for the tickets created using the anonymous ticket form. If this is the case, a message will be displayed and anonymous tickets will be assigned to the default category in the HelpDesk. This is not recommended because anonymous tickets are very likely to be mixed with non-anonymous ones, and additionally anonymous tickets may be accessed by the users who would otherwise be deprived of such access.

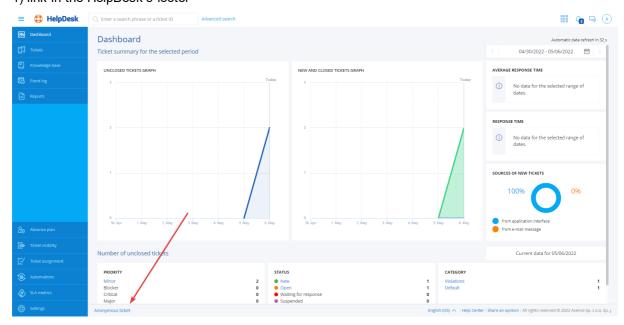
= 🔁 HelpDesk	Q Enter a search phrase or a tick	et ID Advanced search	III 42 📮 🔿
မြာ Dashboard	SYSTEM SETTINGS	Fools for whistleblowers	
Knowledge base	Submission forms Priorities Notifications	Allow the creation of anonymous tickets	
Event log	S Whistleblowers	CATEGORIES Select categories that will be available for anonymous tickets	
		Select one or more Save Image: Select one or more Save Image: Select one or more All new anonymous tickets will be created in the default category Default.	
Absence plan			
Dicket visibility			
Ticket assignment			
O Automations			
SLA metrics			
🚯 Settings	Anonymous ticket	English (US	All rights reserved © 2022 Axence Sp. z o.o. Sp. J.

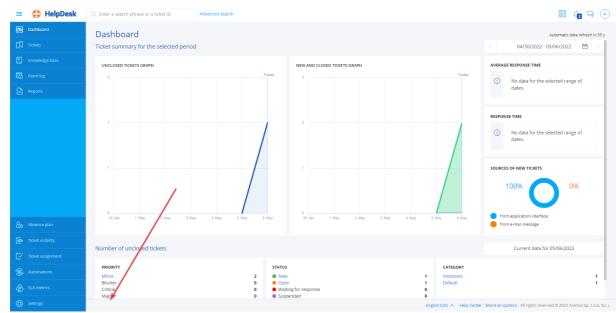
Useful links:

- Madding categories
- Restricting access to an anonymous ticket
- Access restriction ticket visibility
- Access restriction ticket assignment
- Access restriction automations

10.5.3.3 Anonymous ticket link visibility

The anonymous ticket form is available in two locations (if the anonymous ticket creation feature is enabled) and displayed for both the user logged in to the HelpDesk/Agent and the user not logged in: 1) link in the HelpDesk's footer





2) in the Agent's drop-down menu

10.5.3.4 Processing an anonymous ticket

In terms of processing by the HelpDesk employees, an anonymous ticket does not differ in its form from the processing of a regular ticket. The most significant difference is that the individual reporting a specific violation does not usually have access to the ticket. This person cannot monitor the progress of work on the ticket or participate actively for instance by adding comments. However, there is an exception to this rule. In the anonymous ticket adding form, the reporter may provide their contact details. This information can then be used by the assignee to contact the reporter and grant access to the ticket, e.g. by setting him as the reporter or by adding him to the list of anonymous ticket observers.

To view an anonymous ticket, you must log in to the HelpDesk using the account of the user who has access to the specific anonymous ticket and then:

- 1. In the flyout menu on the left side of the window, click the Tickets.
- 2. In the ticket list, click the selected anonymous ticket:
- a) click the link in the "Subject" column

b) click the specific anonymous ticket line, and then click the "View details" button at the bottom part of the flyout ticket preview on the right side of the window.

= 🚯 HelpDesk	Q Enter a search ph	irase or a ti	icket ID	Adv	anced search						000	A2 🤜 🦂
	VIEWS	٥	All tick	ots (2)	Add ticket							@Auto-refresh
Tickets	All tickets Assigned to me	2	All tick	ets (2)								Disabled 🔾
	Observed	2	0	STATUS	ID 🔅	PRIORITY	SUBJECT	CATEGORY	LAST UPDATE \lor	REQUESTER	ASSIGNEE	۲
Event log	As a substitute for C	0		٠	2	Minor	Anonymous ticket	Violations (i)	39 minutes ago	Stephen	Bob	
	FILTERS	0		۲	1	Minor	to internet	Deraun	3 hours ago	Administrator	Administrator	
Reports		- 1										
		0										
	Suspended	0										
	~ ASSIGNEE	<u>د</u>										
	Administrator											
	O Bob	1										
	A DATE OF CREATION											
	Last 12 hours	2										
	Last 24 hours	2										
	Last 48 hours	2										
	Last 7 days	2										
Absence plan	Last 30 days	2										
	Last year	2										
	PRIORITY											
	Blocker	0										
	Critical Major	0										
	Major	2										
	Trivial	0										
SLA metrics	Collapse all		Tickets from	1 to 2 from	2 Show 25 * t	ickets per page					First 🤇 1	> Last
C Settings alhost-8080/?v=13.5.0.31643#/helpdesk									English (US) 🔨 Help Cer	nter Share an opinion All ri	ghts reserved © 2022 A	kence Sp. z o.o. Sp

Both the graphic and functional layout of an anonymous ticket is identical to that of a regular ticket. The difference is that:

- 1. The "Created by" field will always display "Anonymous" as the parameter
- 2. The "Reporter" field by default displays "Anonymous" changes can be made during the processing of the ticket
- 3. If the reporter has provided their contact details, they will appear in the ticket content field, below the descriptive content of the ticket

Ol Dashboard	VIEWS				lvanced search						IIII 42 🖵 人
	VIE 443	0	Alltic	kete (2							
Tickets	All tickets	2	All tic	kets (2) Add ticket						Anonymous ticket
	Assigned to me	1	0	STATUS	ID 🕓	PRIORITY	SUBJECT	CATEGORY	LAST UPDATE V	REQUES	Anonymous ticket.
Knowledge base	Observed As a substitute for C	2									COMMENTS
Event log	As a substitute for c			۰	2	Minor	Anonymous ticket	Violations	39 minutes ago	Stephen	Add internal comment
D	FILTERS	۲		۶	1	Minor	No internet	Default	3 hours ago	Adminis	
Reports	~ STATUS										
		0									4
		1									Internal 🚺 🗛 Add
		0									
	Closed	0									Status: Open ID: 2
	∧ ASSIGNEE										
		1									
	🔘 Bob	1									Created: 53 minutes ago Last update: 40 minutes ago
	^ DATE OF CREATION										Requester: Stephen
	Last 12 hours	2									Assignee: Bob
	Last 24 hours	2									
	Last 48 hours	2									
	Last 7 days	2									
Absence plan	Last 30 days	2									X .
CO	Last year	2									\mathbf{X}
🔯 Ticket visibility	∧ PRIORITY										\mathbf{X}
		0									
Ticket assignment		0									
~											
🛞 Automations	Minor	2									X
SLA metrics			Tickets fro	m 1 to 2 fror	m 2 Show 25 -	tickets per page					< 2 View details >
	Collapse all										
🚯 Settings									English (US) 🔨 🛛 Help Cent	ter Share an o	pinion All rights reserved © 2022 Axence Sp. z o.o. Sp. j.

=	🗘 HelpDesk	Q Enter a sea	rch phrase or a ticket ID	dvanced search					🏭 👍 📮 🔺
Gi	Dashboard	< #2 A	nonymous ticket				Þ	TICKET SUMMA	RY
m									Open
		Anonymou	is ticket.	5	Status:	 Set as waiting for a response 			
		ATTACHME	NTS (0)				8		 Suspend ticket
							Ċ	Identifier:	Close ticket
	Reports	Comme	nts (0) Ticket history				0	Direct link:	http://localhost:
		(A)	BI <u>⊔</u> STr <u>A</u>	<u>ର</u> ର ⊟ ⊟ C ୦	<		8		53 minutes ago
		Ŭ	1		_		Į.	Last update:	40 minutes ago
			1				De.	Category:	Violations () •
			Attachments: 🔓 🖳 🔗 (up to 20MB)			Internal Comment		Priority:	Minor (default)
								USERS	
									Anonymous
									Anonymous
								Created by:	
								Created by: Requester: Assignee:	(S) Stephen 🔹 🖵
වේ								Created by: Requester: Assignee:	Stephen Image: Constraint of the stephen Image: Bob Image: Constraint of the stephen You and 3 other users Image: Constraint of the stephen
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ی ۲:2 (ه)								Created by; Requester: Assignee: Observers: PROCESSING TI Started: Completed:	Stephen Viu and 3 other users Stiminutes ago · O

Useful links:

- Madding a comment 392
- Adding attachments and screenshots
- Distance in the set of the set of
- Closing a ticket
- Restricting access to an anonymous ticket overview

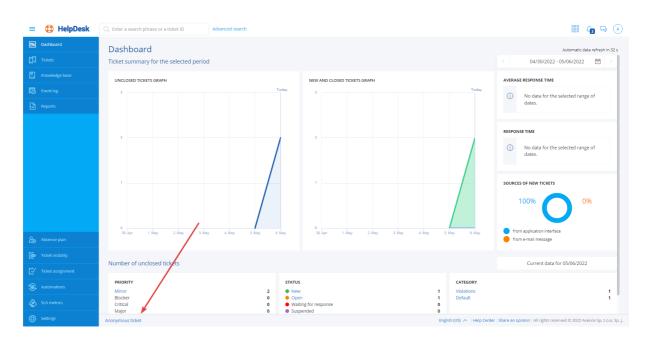
10.5.3.5 Adding an anonymous ticket

The creation of an anonymous ticket is very different from that of a regular ticket. The anonymous ticket is added using a special form. Besides, the reporter does not have access to the ticket after it has been created (unless they are granted access to the anonymous ticket in the course of its proceeding).

To add a new anonymous ticket from the HelpDesk interface:

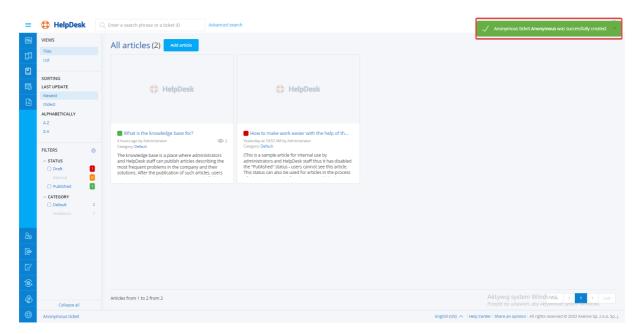
- 1. Click the Anonymous tickets link in the footer.
- 2. Click the Select category field and then click the selected category name.
- 3. Enter the subject of the anonymous ticket.
- 4. Describe comprehensively the violation you want to report.
- (OPTIONALLY) Provide your contact details so that the assignee can contact you Read carefully the message above the "Contact details" field!
- 6. Click the Add ticket button.

Note! Make sure that the anonymous ticket creation option is enabled!



	HelpDesk	C. Erter a search phrase or a ticket (D	Advanced	and .		
	vews Tex	All articles (2)	Adding an	anonymous ticket	×	
				This ticket will remain anonymous and will not be associated with your account	- 1	
	LAST UPDATE	C Helpi	2 * Category:	Select category		
	COMME ALPHABETICALLY 5-2		0	Enter a ticket subject		
		a new spectra second second	A • Description:			
	PETRIX 0 - STATUS - STATUS - Divid - Divid - Divid - Rational - CATEGORY - Divid - R	Tempera Default The Incode/ligh hase is a place and relighters soft care public most frequent problems in the solutions. After the publication				
				Providing your contact information is not obligatory.		
			5 ()	This data will not be used by the system to send you any updates or notifications. Only people approved by the administrator will have access to this data and can use it to contact you din After creating the ticket you will not be able to follow its processing.	ectly.	
			Contact information:	Enter an e-mail address or a phone number 6		
		Articles from 1 to 2 from 2		Add ticket Cancel		Aktywuj system Windows Przejdź do ustawień, aby aktywować system Windows.
•	Anonymous ticket					wije Center. Where an operation . All rights reserved & 2022 Assesse Sp. 2 min. Sp. 3

Once you have properly completed the steps above, the form window will close and the "Anonymous ticket <ticket name> has been successfully created" message will appear in the upper-right corner of the screen.



10.6 Knowledge base

10.6.1 Knowledge base - overview

The knowledge base is a space where Administrators and HelpDesk employees can publish articles describing the procedures used in the given organization, and the most common issues and their solutions. After such articles have been published, users can browse them or use the **Search** field to search for the article describing the solution to the issue which they have encountered. If the knowledge base search produces no results in the form of a description of the solution to the given issue, the user can create a trouble ticket and describe the issue.

= 🚯 HelpDesk	Q Enter a search phrase or	a ticket ID Advanced search		## A 🗣 🙆
🕞 Dashboard	VIEWS	All articles (2) Add article		
III Tickets	List			
Knowledge base	SORTING			
Event log	LAST UPDATE	HelpDesk	HelpDesk	
Reports	Oldest			
	ALPHABETICALLY A-Z Z-A	How to make work easier with the hel Yesterday at 10:52 AM by Administrator Category: Default	What is the knowledge base for? Yesterday at 10:52 AM by Administrator I 1 Category: Default	
	FILTERS () STATUS Draft () Insternal () Published () CATEGORY Odfault () Violations ()	(This is a sample article for internal use by administrations and Hebpek staff thus it has disabled the "Published" status - users cannot set this anticle. This status can also be used for	The knowledge base is a place where administrators and HelpDesk staff can publish articles describing the most frequent problems in the company and their solutions. After the	
Ticket assignment				
SLA metrics	Collapse all	Articles from 1 to 2 from 2		First C 1 X Last
ද්ටූ Settings	Anonymous ticket			English (US) 🔨 Help Center Share an opinion All rights reserved © 2022 Axence Sp. z o.o. Sp. J

Related topics

- Distanting the HelpDesk interface
- Marticle list

- Maing an article
- Editing an article
- Deleting an article
- 1 Trouble tickets overview
- Search bar 382

10.6.2 Article list

The article view shows the list of articles present in the knowledge base. The view is coherent with the ticket list 385 view.

= 😫 HelpDesk	Q Enter a search phrase or a	ticket ID Advanced search		III 4 🤜 🔿
🕲 Dashboard	VIEWS	All articles (2) Add article		
III Tickets	Tiles List			
Knowledge base				
Event log	SORTING LAST UPDATE	HelpDesk	😳 HelpDesk	
Reports	Oldest			
	ALFHADETICALLY AZ ZA NILTERS D'ont STATUS D'ont D'ont Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control	● How to make work easier with the hel Yeterridy at 1052 AM by Administrator Cargony: Default This is a sample article for internal use by administrators and HelpDesk staff thus it has disabled the "Aublikhed" status, users cannot see this article. This status can also be used for	What is the knowledge base for? Yearnedy are 1052 AM by Administration Cargory: Orbital The knowledge base is a pack where administrators and Helpbeck staff can publish and ice describing the most frequent problems in the company and their solutions. After the	
8 Absence plan				
Ticket visibility				
🛒 Ticket assignment				
Automations				
SLA metrics	Collapse all	Articles from 1 to 2 from 2		Pist C 1 > Last
🚯 Settings	Anonymous ticket			English (US) 🔨 Help Center Share an opinion All rights reserved © 2022 Axence Sp. z o.o. Sp. J.

In the left part of the window, there is the main navigation (see <u>Main views</u> 377)) and the quick preview column. The quick preview allows you to rapidly display a data set from the specific area of interest. For instance, you can display unpublished articles, which, additionally, belong to one of the two selected categories.

Article list

The main part of the described view is the article list table. Each article is represented by a single tile. The following data are displayed within a tile:

- Article status (red draft, green published, orange internal)
- Title
- Context actions: **editing** (only for the HelpDesk support employee and Administrator) and **deleting** (only for the Administrator)
- Article cover (if it was defined)
- Excerpt from the article text
- Date of creation
- Date of last update

Category

• Number of article visits by end users (only for the HelpDesk support employee and Administrator) To open the selected article, click its title.

Related topics

Starting the HelpDesk interface

- 1 Knowledge base overview
- 1 Trouble tickets overview
- Marticle list
- Maing an article
- Distance in the second second
- Deleting an article 423

10.6.3 Adding an article

To create a new article in the HelpDesk interface:

- 1. In the Knowledge base view click the Add article button.
- 2. Add article **Cover** (optionally).
- 3. Enter article Title.
- 4. Type the article contents in the embedded text editor 378.
- 5. You can attach an image or a link to an external video with the use of **Upload image** and **Insert** video options.
- Set the article Status as Draft, Published or internal (default setting: Draft). Articles marked as drafts are not visible to end users. Articles marked as internal are only visible to HelpDesk employees. You can supplement the article and edit its status [422] at a later time.
- 7. Select the article's **Category** from the list of available categories. You can <u>add a new category</u> without interrupting the article creation process.
- 8. You can view the created article by clicking **Preview**. To return to the article editing window, click **Back to editing** button.
- 9. When the article is completed, click the Add article button.

=	😫 HelpDesk	Q Enter a search	hrase or a ticket ID Advanced search	
Gi	Dashboard	< Addir	g an article	
CJJ	Tickets			
巴	Knowledge base	* Title:	Enter an article title	
5	Event log	* Content:	BIUSTAS COREEECO & EEECO	
₿	Reports			
			Attachments: 🔗 (up to 20048)	
			Arrechmentz: 🖉 (nh in zowich)	
		Cover:		
			NO COVER	
			Add cover	
		Status:	Draft	
	Absence plan		O Internal O Published	
(Ticket visibility	Category:	Default (default)	
ß	Ticket assignment			
۵.	Automations	Add article	Cancel	Preview
٢	SLA metrics	Addiarticle		Preview
ŵ	Settings	Anonymous ticket	English (US) A	telp Center Share an opinion All rights reserved © 2022 Axence Sp. z o.o. Sp. J.

Related topics

- Logging in to the HelpDesk interface
- Mainto Knowledge base
- Marticle list
- Distance in the second second
- Deleting an article 423

10.6.4 Editing an article

To edit an article in the HelpDesk interface:

- 1. In the Knowledge base view click Edit button on the tile of the article to be edited.
- 2. To edit the article title, click the pencil icon on the right-hand side of the title, enter the new title and click **Save changes** button.
- 3. Modify the article contents in the embedded text editor 378.
- 4. You can attach an image or a link to an external video with the use of **Upload image** and **Insert** video options.
- 5. To change the article cover, in the article summary in the right-hand side of the window, click the pencil icon on the cover (or **Add cover**).
- 6. To change the article status, in the article summary in the right-hand side of the window select **Status**: **Draft, Published or Internal**.
- 7. To change the article category, in the article summary in the right-hand side of the window select **Category** from the list of available categories. You can <u>add a new category</u> without interrupting the article creation process.

- 8. You can view the created article by clicking **Preview**. To return to the article editing window, click **Back to editing** button.
- 9. When modifications are complete, click the **Save changes** button.

=	😫 HelpDesk	Q. Enter a search phrase or a ticket ID Advanced search			III 🗘 📮 🔿
	Dashboard	What is the knowledge base for?	≥	ARTICLE SUMM	ARY
	Tickets Knowledge base	BIUSTASSECOVEEEEBØBO	80	Ν	IO COVER
	Event log	The knowledge base is a place where administrators and HelpDesk staff can publish articles describing the most frequent problems in the company and their solutions. After the publication of such articles, users can browset through them or use the 'Search' field to find an article describing the solution to the problem they have encountered. If a description of the solution for a problem cannot be found in the knowledge base, then the user can carefase a bicket description the problem.			Add cover
	Reports			Last update:	http://localihost/ Vesterday at 16:52 AM Yesterday at 16:52 AM by Administrator 2 Gimes Published Published
දිං	Absence plan				
)	Ticket visibility				
₿⁄	Ticket assignment				
۰	Automations				
æ	SLA metrics	Save changes Cancel Preview			
63	Settings	Anonymous ticket English (IS) A Helo Center Share a	n opinion 1	All rights reserved	© 2022 Axence Sp. z p.o. Sp. I.

Related topics

Dogging in to the HelpDesk interface

Maint Knowledge base

Marticle list

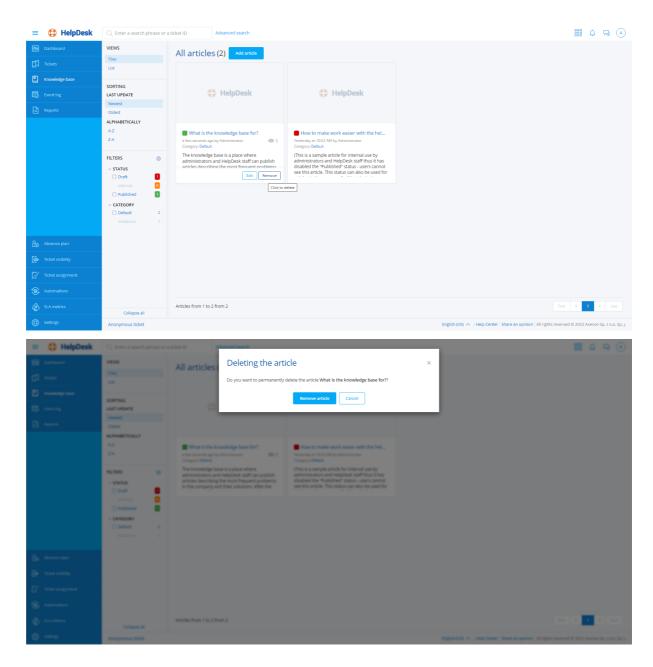
Madding an article

Deleting an article 423

10.6.5 Deleting an article

To delete an article in the HelpDesk interface:

- 1. In the **Knowledge base** view click the **Remove** button on the tile of the article to be deleted.
- 2. A dialog box will appear. Confirm your decision to delete an article by clicking the **Remove article** button. The deleted article cannot be restored.



Related topics

- Dogging in to the HelpDesk interface
- Mainte Market Ma
- Marticle list
- Madding an article
- Letiting an article 422

10.7 Event log

The event log view presents the list of all operations related to trouble tickets in the HelpDesk system. The event log allows the history of changes to tickets to be tracked, to optimize work and to clarify possible misunderstandings.

Note: the event log includes only ticket-related operations and it does not cover changes in the article database. The event log is visible for operations of Administrators and HelpDesk support employees.

= 😫 HelpDesk	Q Enter a search phrase or	a ticket ID Advanced search				
Gli Dashboard	VIEWS	All events (2)				
[]] Tickets	All events 2 My tickets of interest 0	All events (2)				
Knowledge base		DATE AND TIME \lor	TICKET SUBJECT	EVENT TYPE	ADDITIONAL INFORMATION	INITIATOR
EXTENT Log	FILTERS	a few seconds ago	No internet	Observer added	Ticket observer was added: Administrator	Administrator
Reports	Last 12 hours 2 Last 24 hours 2	a few seconds ago	No internet	Ticket created	New ticket 'No internet' created	Administrator
	Last 48 hours 2					
	Last 7 days 2 Last 30 days 2					
	Last year 2					
	 INITIATOR System engine 					
	Administrator 2					
	✓ EVENT					
🔯 Ticket visibility						
Ticket assignment						
Automations						
SLA metrics	Collapse all	Events from 1 to 2 from 2 Show 25 💌	events per page			First C 1 > Last
🚯 Settings	Anonymous ticket				English (US) 🔨 Help Center Share an opt	nion All rights reserved © 2022 Axence Sp. z o.o. Sp. j

The event log view is coherent with the <u>ticket list</u> 385 and <u>article list</u> 420 views. In the left part of the window, there is the main navigation (see <u>Main views</u> 377) and the quick preview column. The quick preview allows you to rapidly display a data set from the specific area of interest. For instance, you can display the events related only to applied automations and priority changes or all the events for a given ticket which have taken place in the last week.

To change the displayed columns or their sequence, click the table settings button [icon] in the upper right corner of the table. To sort the table contents by a given column, click the arrow at the column name. Below the table you can select how many tickets are to be displayed per page, and also go to the next pages.

Filters

The quick preview column in the left-hand side of the window offers the following event filters:

- all events related to the ticket object (default selection for the Administrator, option invisible for HelpDesk users),
- all events related to a ticket assigned to me (default selection for HelpDesk users),
- events from last week (option to select the types of displayed events),
- events from last month (option to select the types of displayed events),
- events from last year (option to select the types of displayed events),
- events by type (many items can be selected).

Filtering events by type includes the following options:

Event type	Additional displayed information	Event initiator
Comment added	Comment text	User name
Automation action failed	Name of the failed automation action	HelpDesk mechanism

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Event type	Additional displayed information	Event initiator
Tickets merged	Name of the ticket, which was closed and merged into another ticket	User name
Automation started	Name of applied automation	HelpDesk mechanism
Ticket has been removed	Name of removed ticket	User name
Ticket has been created	Name of created ticket	User name
Work time has been changed	Ticket processing time	User name
Category has been changed	Current category	User name
Assignee changed	Name of the assigned user	User name
Related device has been changed	Name of related device	User name
Relation has been changed	Name of related ticket	User name
Priority has been changed	Current priority	User name
Status changed	Current status	User name
Subject has been changed	Current ticket subject	User name
Requester has been changed	Name of the requested user	User name

Related topics

Starting the HelpDesk interface

Main views

1 Ticket list

Marticle list

Automations - overview 460

10.8 Reports

10.8.1 Report generation

There are 32 types of HelpDesk module reports, covering the most common scenarios allowing statements to be generated for:

Tickets:

✓ <u>Closed tickets:</u> 429

- ✓ Closed tickets by days
- Closed tickets by weeks
- ✓ Closed tickets by months
- Closed tickets by assignees
- Closed tickets by priorities
- Closed tickets by categories
- Closed tickets by departments
- ✓ <u>Activity and ticket response time:</u> [42]
 - Response time by days
 - Response time by weeks
 - ✓ Response time by months
 - ✓ Summary number of events
 - ✓ User activity in tickets
 - ✓ First response time by users
- ✓ Unclosed tickets reports: 449
 - Unclosed tickets summary
 - Unclosed tickets by assignees
 - Unclosed tickets by priorities
 - Unclosed tickets by categories
 - Unclosed tickets by departments

SLA reports:

- ✓ Closed tickets under SLA reports 4561:
 - Closed tickets under SLA summary
 - Closed tickets under SLA by days
 - Closed tickets under SLA by weeks
 - Closed tickets under SLA by months
 - Closed tickets under SLA by assignees
 - Closed tickets under SLA by departments

✓ <u>SLA metric course reports</u> 457:

- SLA metric course summary
- ✓ SLA metric course by days
- ✓ SLA metric course by weeks
- ✓ SLA metric course by months
- ✓ SLA metric course by assignees
- SLA metric course by departments

- ✓ <u>SLA metric violation reports</u> 457:
 - SLA violations by metric violation date
 - SLA violations by ticket closure date

To generate a report:

- 1. Log in to the HelpDesk interface as the Administrator, navigate to the Reports view.
- 2. Select a report group, click the report type name.
- 3. In report wizard, specify the preconditions (arguments), range and the form in which the results are to be presented.
- 4. The generated report can be exported to CSV or XLS.

TICKETS REPORTS

Closed ticket reports are generated for tickets which have already completed the processing (in read-only form – cannot be edited). Reports of this group enable the control of ticket handling quality (for specific days, months, by individual technical support employees).

The reports are archival and unchangeable. Re-generation of a report with the same arguments will always produce the same results.

Activity and ticket response time reports summarize the total number of system events in a given period. Reports from this group offer information about the data volumes processed by the system.

The reports are archival and unchangeable. Re-generation of a report with the same arguments will always produce the same results.

Unclosed tickets reports show data on tickets currently being processed in the system. Reports from this group offer information about the current system status, e.g. the current number of tickets.

The reports work as views – re-generation of the report can produce different results each time.

SLA METRIC REPORTS

Closed tickets under SLA reports display the statistics of closed tickets processed under SLA metrics. This group of reports enables the investigation into how the service level agreement provisions were fulfilled.

The reports are archival. Re-generation of a report with the same arguments will always produce the same results.

SLA metric course reports display the events that occurred during the SLA metric run. The purpose of this group of reports is to monitor the tasks executed under the service level agreement.

SLA violation reports display the tickets with a violated SLA metric. The purpose of this group of reports is to investigate the incidents of service level agreement breaches.

Dates in reports pertain to the local time of the machine where the Axence nVision® Server (HelpDesk service) is installed.

10.8.2 Tickets reports

10.8.2.1 Closed ticket reports

Reports are generated for tickets which have already completed the processing (available in read-only form – cannot be edited). Reports of this group enable the control of ticket handling quality (for specific days, months, by individual technical support employees).

The reports are archival and unchangeable. Re-generation of a report with the same arguments will always produce the same results.

Reported data:

Response time – time from ticket creation to the first public comment by a user with "administrator" or "technical support" role.

Work time - duration of work on the ticket, entered by a technical support employee.

Average number of comments from requester – number of comments authored by the requester divided by the total number of tickets.

The total **time average** and **comment average** is a weighted value: (*number of objects in a row* * *row value*)/total number of objects.

Types of closed ticket reports (click the report name to expand the description):

Closed tickets by days

The report presents an overview of ticket processing in range of days.

Argument name	Possible values	Selection method	Default value	Remarks		
Closing date until:	date (range: 1 day)	date selection	last day of the last month	not possible to select the current day; maximum time from the start date: 100 days		
Closing date from:	date (range: 1 day)	date selection	first day of the last month	no date limitations		
Category:	(any), multiple choice from category list	multiple choice	(any)	-		

Argument name	Possible values Selection E method		Default value	Remarks
Assignee:	(any), (none), multiple choice from assignee list	multiple choice	(any)	-
Department:	Department: (any), (none), multiple choice from department list		(any)	-
Show unassigned tickets:	true, false	checkbox	true	-
Show tickets without department:	true, false	checkbox	true	-
Priority:	(any), multiple choice from priority list	multiple choice	(any)	-

Example:

Day	tickets		Time in 'Open' status		Time in 'Waiting for response' status		Time in 'Suspende d' status		Time from opening to closing		Work time		Average number of requester
	se ti	se time	aver age	total	aver age	total	aver age	total	aver age	total	aver age	total	comments
January 1, 2016	8	30 min	1 h	8 h	1 h	8 h	1 h	8 h	1 h	8 h	1 h	8 h	3.5
January 2, 2016	10	45 min	1 h 30 min	8 h 30 min	1 h 30 min	8 h 30 min	1 h 30 min	8 h 30 min	1 h 30 min	8 h 30 min	1 h 30 min	8 h 30 min	4
January 3, 2016	12	15 min	30 min	7 h 30 min	7 h 30 min	7 h 30 min	30 min	7 h 30 min	30 min	7 h 30 min	30 min	7 h 30 min	4.5
average	10	29 min	58 min	-	58 min	-	58 min	-	58 min	-	58 min	-	4.07
total	30	-	-	24 h	-	24 h	-	24 h	-	24 h	-	24 h	-

Visual presentation:

Chart: point/line chart of the number of tickets closed from the given day.

Chart: point/line chart of the average response time from the given day.

Chart: point/line chart of the average time in "open", "waiting for response", "suspended" status from the given day.

Chart: point/line chart of the average time from opening to closing from the given day.

Chart: point/line chart of the average work time from the given day.

Chart: bar chart of the total work time from the given day.

Chart: point/line chart of the average number of comments from the requester from the given day.

Closed tickets by weeks

The report presents an overview of ticket processing in range of weeks.

Argument name	Possible values	Selection method	Default value	Remarks
Closing date until:	date (range: 1 week)	date selection	last completed week	not possible to select the current week; maximum time from the start date: 15 weeks (105 days)
Closing date from:	date (range: 1 week)	date selection	four weeks back from the last completed week	no date limitations
Category:	(any), multiple choice from category list	multiple choice	(any)	-
Assignee:	(any), (none), multiple choice from assignee list	multiple choice	(any)	-
Department:	(any), (none), multiple choice from department list	multiple choice	(any)	-
Show unassigned tickets:	true, false	checkbox	true	-
Show tickets without department:	true, false	checkbox	true	_
Priority:	(any), multiple choice from priority list	multiple choice	(any)	-

Example:

Week	tickets		closed tickets		respon		Time in 'Waiting for response' status		Time in 'Suspende d' status		Time from opening to closing		Work time		Average number of requester
		se time	aver age	total	aver age	total	aver age	total	aver age	total	aver age	total	comments		
January, 4 - 10 2016	100	30 min	1 h	100 h	1 h	100 h	1 h	100 h	1 h	100 h	1 h	100 h	3.5		
January 11 - 17, 2016	150	45 min	1 h 30 min	200 h	1 h 30 min	200 h	1 h 30 min	200 h	1 h 30 min	200 h	1 h 30 min	200 h	4		
January, 18 - 24 2016	200	15 min	30 min	150 h	30 min	150 h	30 min	150 h	30 min	150 h	30 min	150 h	4.5		
average	150	28 min 59 sec	56 min 40 sec	-	56 min 40 sec	-	56 min 40 sec	-	56 min 40 sec	-	56 min 40 sec	-	4.11		
total	450	-	-	450 h	-	450 h	-	450 h	-	450 h	-	450 h	-		

Visual presentation:

Chart: point/line chart of the number of tickets closed from the given week.

Chart: point/line chart of the average response time from the given week.

Chart: point/line chart of the average time in "open", "waiting for response", "suspended" status from the given week.

Chart: point/line chart of the average time from opening to closing from the given week.

Chart: point/line chart of the average work time from the given week.

Chart: bar chart of the total work time from the given week.

Chart: point/line chart of the average number of comments from the requester from the given week.

Closed tickets by months

The report presents an overview of ticket processing in range of months.

Arguments:

Argument name	Possible values	ossible values Selection method		Remarks
Closing date until:	date (range: 1 month)	date selection	last completed month	not possible to select the current month; maximum time from the start date: 3 months
Closing date from:	date (range: 1 month)	date selection	first month of the quarter with the last completed month	no date limitations
Category:	(any), multiple choice from category list	multiple choice	(any)	-
Assignee:	(any), (none), multiple choice from assignee list	multiple choice	(any)	-
Department:	(any), (none), multiple choice from department list	multiple choice	(any)	-
Show unassigned tickets:	true, false	checkbox	true	-
Show tickets without department:	true, false	checkbox	true	-
Priority:	(any), multiple choice from priority list	multiple choice	(any)	-

Reported data:

Example:

Month	Number of closed tickets se time		status on		Time in 'Waiting for response' status		Time in 'Suspende d' status		Time from opening to closing		Work time		Average number of requester
		se time	aver age	total	aver age	total	aver age	total	aver age	total	aver age	total	comments
January 2016	100	30 min	1 h	100 h	1 h	100 h	1 h	100 h	1 h	100 h	1 h	100 h	3.5
February 2016	150	45 min	1 h 30 min	200 h	1 h 30 min	200 h	1 h 30 min	200 h	1 h 30 min	200 h	1 h 30 min	200 h	4
March 2016	200	15 min	30 min	150 h	30 min	150 h	30 min	150 h	30 min	150 h	30 min	150 h	4.5
average	150	28 min 20 sec	56 min 40 sec	-	56 min 40 sec	-	56 min 40 sec	-	56 min 40 sec	-	56 min 40 sec	-	4.11
total	450	-	-	450 h	-	450 h	-	450 h	-	450 h	-	450 h	-

Visual presentation:

Chart: point/line chart of the number of tickets closed from the given month.

Chart: point/line chart of the average response time from the given month.

Chart: point/line chart of the average time in "open", "waiting for response", "suspended" status from the given month.

Chart: point/line chart of the average time from opening to closing from the given month.

Chart: point/line chart of the average work time from the given month.

Chart: bar chart of the total work time from the given month.

Chart: point/line chart of the average number of comments from the requester from the given month.

Closed tickets by assignees

The report shows an overview of ticket processing for each technical support employee.

Argument name	Possible values	e values Selection Default v		Remarks
Closing date until:	date (range: 1 day)	date selection	last day of the last month	not possible to select the current month; maximum time from the start date: 100 days
Closing date from:	date (range: 1 day)	date selection	first day of the last month	no date limitations
Category:	(any), multiple choice from category list	multiple choice	(any)	-
Assignee:	(any), (none), multiple choice from assignee list	multiple choice	(any)	-
Department:	(any), (none), multiple choice from department list	multiple choice	(any)	-
Show unassigned tickets:	true, false	checkbox	true	-
Show tickets without department:	true, false	checkbox	true	-
Priority:	(any), multiple choice from priority list	multiple choice	(any)	-

Example:

Employee	tickets		Tim 'Op sta	en'	Time in 'Waiting for response' status		Time in 'Suspende d' status		Time from opening to closing		Work	time	Average number of requester
		se time	aver age	total	aver age	total	aver age	total	aver age	total	aver age	total	comments
Jan Kowalski	100	30 min	1 h	100 h	1 h	100 h	1 h	100 h	1 h	100 h	1 h	100 h	3.5
Piotr Nowak	150	45 min	1 h 30 min	200 h	1 h 30 min	200 h	1 h 30 min	200 h	1 h 30 min	200 h	1 h 30 min	200 h	4

Employee	tickets		Tim 'Op sta	en'	Time in 'Waiting for response' status		Time in 'Suspende d' status		Time from opening to closing		Work time		Average number of requester	
	tickets se tim	se time	aver age	total	aver age	total	aver age	total	aver age	total	aver age	total	comments	
Anna Nowak	200	15 min	30 min	150 h	30 min	150 h	30 min	150 h	30 min	150 h	30 min	150 h	4.5	
total	450	-	-	450 h	-	450 h	-	450 h	-	450 h	-	450 h	-	

Employee	tickets		Tim 'Op sta	en'	Time in 'Waiting for response' status		Time in 'Suspende d' status		Time from opening to closing		Work time		Average number of requester
		se time	aver age	total	aver age	total	aver age	total	aver age	total	aver age	total	comments
(no assignee)	2	30 min	1 h 30 min	2 h 30 min	1 h 30 min	2 h 30 min	1 h 30 min	2 h 30 min	8 h	2 h 30 min	8 h	2 h 30 min	3.5

Visual presentation:

Chart: bar chart of the number of closed tickets for the assignee + dotted line with mean value.

Chart: bar chart of the assignee's average response time + dotted line with mean value.

Chart: bar chart of the average time in "open", "waiting for response", "suspended" status for the assignee.

Chart: bar chart of the average time from opening to closing for the assignee + dotted line with mean value.

Chart: bar chart of the assignee's total work time + dotted line with mean value.

Chart: bar chart of the average number of requester's comments for the assignee + dotted line with mean value.

Closed tickets by priorities

The report shows an overview of ticket processing for specific ticket priorities.

Argument name	Possible values	Selection method	Default value	Remarks
Closing date until:	date (range: 1 day)	date selection	first day of the last month	not possible to select the current month; maximum time from the start date: 100 days
Closing date from:	date (range: 1 day)	date selection	last day of the last month	no date limitations
Category:	(any), multiple choice from category list	multiple choice	(any)	-
Assignee:	(any), (none), multiple choice from assignee list	multiple choice	(any)	-
Department:	(any), (none), multiple choice from department list	multiple choice	(any)	-
Show unassigned tickets:	true, false	checkbox	true	-
Show tickets without department:	true, false	checkbox	true	-
Priority:	(any), multiple choice from priority list	multiple choice	(any)	-

Example:

Priority	Number of closed tickets se time		ʻOp	Time in 'Open' status		Time in 'Waiting for response' status		Time in 'Suspende d' status		Time from opening to closing		time	Average number of requester
		se time	aver age	total	aver age	total	aver age	total	aver age	total	aver age	total	comments
High	100	30 min	1 h	100 h	1 h	100 h	1 h	100 h	1 h	100 h	1 h	100 h	3.5
Medium	150	45 min	1 h 30 min	200 h	1 h 30 min	200 h	1 h 30 min	200 h	1 h 30 min	200 h	1 h 30 min	200 h	4

Priority	tickets			e in oen' tus	Time in 'Waiting for response' status		Time in 'Suspende d' status		Time from opening to closing		Work time		Average number of requester
	tickets se time	aver age	total	aver age	total	aver age	total	aver age	total	aver age	total	comments	
Low	200	15 min	30 min	150 h	30 min	150 h	30 min	150 h	30 min	150 h	30 min	150 h	4.5
total	450	-	-	450 h	-	450 h	-	450 h	-	450 h	-	450 h	-

Visual presentation:

Chart: bar chart of the number of closed tickets for the priority + dotted line with mean value.

Chart: bar chart of the average response time for the priority + dotted line with mean value.

Chart: bar chart of the average time in "open", "waiting for response", "suspended" status for the priority.

Chart: bar chart of the average time from opening to closing for the priority + dotted line with mean value.

Chart: bar chart of the total work time for the priority + dotted line with mean value.

Chart: bar chart of the average number of requester's comments for the priority + dotted line with mean value.

Closed tickets by categories

The report shows an overview of ticket processing for specific ticket categories.

Argument name	Possible values Selection method		Default value	Remarks
Closing date until:	date (range: 1 day)	date selection	first day of the last month	not possible to select the current month; maximum time from the start date: 100 days
Closing date from:	date (range: 1 day)	date selection	last day of the last month	no date limitations
Category:	(any), multiple choice from category list	multiple choice	(any)	-

Argument name	Possible values	Selection method	Default value	Remarks
Assignee:	(any), (none), multiple choice from assignee list	multiple choice	(any)	-
Department:	(any), (none), multiple choice from department list	multiple choice	(any)	-
Show unassigned tickets:	true, false	checkbox	true	-
Show tickets without department:	true, false	checkbox	true	-
Priority:	(any), multiple choice from priority list	multiple choice	(any)	-

Example:

Category	tickets		ʻOp	Time in 'Open' status		Time in 'Waiting for response' status		Time in 'Suspende d' status		Time from opening to closing		time	Average number of requester
		se time	aver age	total	aver age	total	aver age	total	aver age	total	aver age	total	comments
Printers	100	30 min	1 h	100 h	1 h	100 h	1 h	100 h	1 h	100 h	1 h	100 h	3.5
Scanners	150	45 min	1 h 30 min	200 h	1 h 30 min	200 h	1 h 30 min	200 h	1 h 30 min	200 h	1 h 30 min	200 h	4
Monitors	200	15 min	30 min	150 h	30 min	150 h	30 min	150 h	30 min	150 h	30 min	150 h	4.5
total	450	-	-	450 h	-	450 h	-	450 h	-	450 h	-	450 h	-

Visual presentation:

Chart: bar chart of the number of closed tickets for the category + dotted line with mean value.

Chart: bar chart of the average response time for the category + dotted line with mean value.

Chart: bar chart of the average time in "open", "waiting for response", "suspended" status for the category.

Chart: bar chart of the average time from opening to closing for the category + dotted line with mean value.

Chart: bar chart of the total work time for the category + dotted line with mean value.

Chart: bar chart of the average number of requester's comments for the category + dotted line with mean value.

Closed tickets by departments

The report shows an overview of ticket processing for specific ticket departments.

Arguments:

Argument name	Possible values	Selection method	Default value	Remarks
Closing date until:	date (range: 1 day)	date selection	last day of the last month	not possible to select the current month; maximum time from the start date: 100 days
Closing date from:	date (range: 1 day)	date selection	first day of the last month	no date limitations
Category:	(any), multiple choice from category list	multiple choice	(any)	-
Assignee:	(any), (none), multiple choice from assignee list	multiple choice	(any)	-
Department:	(any), (none), multiple choice from department list	multiple choice	(any)	-
Show unassigned tickets:	true, false	checkbox	true	-
Show tickets without department:	true, false	checkbox	true	-
Priority:	(any), multiple choice from priority list	multiple choice	(any)	-

Reported data:

Example:

Department	Number of closed tickets	Averag e respon		e in ben' tus	'Wa		Tim 'Susp d' st	ende	Time openi clos	-	Work	time	Average number of requester
		se time	aver age	total	aver age	total	aver age	total	aver age	total	aver age	total	comments
Warsaw	100	30 min	1 h	100 h	1 h	100 h	1 h	100 h	1 h	100 h	1 h	100 h	3.5
Wroclaw	150	45 min	1 h 30 min	200 h	1 h 30 min	200 h	1 h 30 min	200 h	1 h 30 min	200 h	1 h 30 min	200 h	4
Krakow	200	15 min	30 min	150 h	30 min	150 h	30 min	150 h	30 min	150 h	30 min	150 h	4.5
total	450	-	-	450 h	-	450 h	-	450 h	-	450 h	-	450 h	-

Department	Number of closed tickets	Averag 'Op e sta respon		Time in me in 'Waiting Open' for atus response' status		Time in 'Suspende d' status		Time from opening to closing		Work time		Average number of requester	
		se time	aver age	total	aver age	total	aver age	total	aver age	total	aver age	total	comments
(no department)	2	30 min	1 h 30 min	2 h 30 min	1 h 30 min	2 h 30 min	1 h 30 min	2 h 30 min	8 h	2 h 30 min	8 h	2 h 30 min	3.5

Visual presentation:

Chart: bar chart of the number of closed tickets for the department + dotted line with mean value.

Chart: bar chart of the average response time for the department + dotted line with mean value.

Chart: bar chart of the average time in "open", "waiting for response", "suspended" status for the department.

Chart: bar chart of the average time from opening to closing for the department + dotted line with mean value.

Chart: bar chart of the total work time for the department + dotted line with mean value.

Chart: bar chart of the average number of requester's comments for the department + dotted line with mean value.

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10.8.2.2 Activity reports

The reports summarize the total number of system events in a given period. Reports from this group offer information about the data volumes processed by the system.

The reports are archival and unchangeable. Re-generation of a report with the same arguments will always produce the same results.

Types of activity reports (click the report name to expand the description):

Response time by days

The report provides statistics related to the first response time in range of days, for the tickets with the technical support employee's first response taken in the specified period.

Arguments:

Argument name	Possible values	Selection method	Default value	Remarks
Response date until:	date (range: 1 day)	date selection	last day of the last month	not possible to select the current day; maximum time from the start date: 100 days
Response date from:	date (range: 1 day)	date selection	first day of the last month	no date limitations
First response person:	(any), multiple choice from user list	multiple choice	(any)	list is limited to users with "administrator" or "technical support" role.

Reported data:

Response time: time from ticket creation to the first public comment by a user with "administrator" or "technical support" role.

The total **time average** and comment average is a weighted value: *number of objects in a row* * *row value/total number of objects.*

Example:

	Number of	Numl	ber of tickets	with response	time	Response time	
Day	tickets with first response made	up to 1 h	more than 1 h - up to 8 h	more than 8 h - up to 24 h	more than 24 h	average	maximu m
January 1, 2016	20	6	10	3	1	50 min	2 h
January 2, 2016	43	12	20	9	2	1 h	2 h 20 min

	Number of	Numl	ber of tickets	with response	time	Response time		
Day	tickets with first response made	up to 1 h	more than 1 h - up to 8 h	more than 8 h - up to 24 h	more than 24 h	average	maximu m	
January 3, 2016	14	3	5	6	0	1 h 10 min	1 h 40 min	
average	25.67	7	11.67	6	1	59 min 13 sec	-	
total	77	21	35	18	3	-	-	

Visual presentation:

Chart: point/line chart of the number of tickets with the first response taken from the given day.

Chart: point/line chart of the number of tickets with response time of up to 1 h, 1 to 8 h, 8 to 24 h, more than 24 h from the given day.

Chart: point/line chart of the average response time from the given day.

Response time by weeks

The report provides statistics related to the first response time in range of weeks, for the tickets with the technical support employee's first response taken in the specified period.

Arguments:

Argument name	Possible values	Selection method	Default value	Remarks
Response date until:	date (range: 1 week)	date selection	last completed week	not possible to select the current day; maximum time from the start date: 15 weeks (105 days)
Response date from:	date (range: 1 week)	date selection	four weeks back from the last completed week	no date limitations
First response person:	(any), multiple choice from user list	multiple choice	(any)	list is limited to users with "administrator" or "technical support" role.

Reported data:

Response time: time from ticket creation to the first public comment by a user with "administrator" or "technical support" role.

The total **average response time** is a weighted value: *number of objects in a row* * *row value/total number of objects.*

Example:

	Number of	Numl	ber of tickets	with response	time	Respon	se time
Week	tickets with first response made	esponse up to 1 h 1 h - up to 8 h - up		more than 8 h - up to 24 h	more than 24 h	average	maximu m
January, 4 - 10 2016	20	6	10	3	1	50 min	2 h
January 11 - 17, 2016	43	12	20	9	2	1 h	2 h 20 min
January, 18 - 24 2016	14	3	5	6	0	1 h 10 min	1 h 40 min
average	25.67	7	11.67	6	1	59 min 13 sec	-
total	77	21	35	18	3	-	-

Visual presentation:

Chart: point/line chart of the number of tickets with the first response taken from the given week.

Chart: point/line chart of the number of tickets with response time of up to 1 h, 1 to 8 h, 8 to 24 h, more than 24 h from the given week.

Chart: point/line chart of the average response time from the given week.

Response time by months

The report provides statistics related to the first response time in range of months, for the tickets with the technical support employee's first response taken in the specified period.

Argument name	Possible values	Selection method	Default value	Remarks
Response date until:	date (range: 1 month)		first month of the quarter	not possible to select the current day; maximum time from the

Argument name	Possible values	Selection method	Default value	Remarks
			with the last completed month	start date: 3 months
Response date from:	date (range: 1 month)	date selection	last completed month	no date limitations
First response person:	(any), multiple choice from user list	multiple choice	(any)	list is limited to users with "administrator" or "technical support" role.

Response time: time from ticket creation to the first public comment by a user with "administrator" or "technical support" role.

The total **average response time** is a weighted value: *number of objects in a row* * *row value/total number of objects.*

Example:

	Number of	Numl	per of tickets	with response	time	Respon	se time
Month	tickets with first response made	rst response up to 1 h 1 h - up to 8 h - up to		more than 8 h - up to 24 h	more than 24 h	average	maximu m
January 2016	200	60	100	30	10	50 min	2 h
February 2016	430	120	200	90	20	1 h	2 h 20 min
March 2016	140	30	50	60	0	1 h 10 min	1 h 40 min
average	256.67	70	116.7	60	10	59 min 13 sec	-
total	770	210	350	180	30	-	-

Visual presentation:

Chart: point/line chart of the number of tickets with the first response taken from the given month.

Chart: point/line chart of the number of tickets with response time of up to 1 h, 1 to 8 h, 8 to 24 h, more than 24 h from the given month.

Chart: point/line chart of the average response time from the given month.

Summary - number of events

The report provides numerical event statistics in form of a summary.

Arguments:

Argument name	Possible values	Selection method	Default value	Remarks
Activity date until:	date (range: 1 day)	date selection	yesterday	not possible to select the current day; unlimited maximum time from the start date.
Activity date from:	date (range: 1 day)	date selection	earlier of the following dates: • system installation/ migration date (zero date) • yesterday	no date limitations

Reported data:

Example:

	Number of tickets created from		Total number	Total	Number of comments			
Month	e-mail message s	applicati on interface	of created tickets	number of closed tickets	public	internal	total	
Number	500	1500	2000	1800	3500	4000	6500	
Average per day	1.37	4.11	5.48	4.93	9.59	10.96	17.81	

Visual presentation:

Chart: pie chart of the total number of tickets created from e-mail messages and the application interface.

Chart: bar chart of the number of created tickets and closed tickets.

Chart: pie chart of the total number of public comments and internal comments.

User activity in tickets

The report provides numerical user activity statistics in the specified period.

Arguments:

Argument name	Possible values	Selection method	Default value	Remarks
Activity date until:	date (range: 1 day)	date selection	last day of the last month	not possible to select the current day; maximum time from the start date: 100 days
Activity date from:	date (range: 1 day)	date selection	first day of the last month	no date limitations
First response person:	(any), multiple choice from user list	multiple choice	(any)	list is limited to users with "administrator" or "technical support" role.

Reported data:

Reports with which a user has been working: set of unique tickets, in relation to which the user performed any action (ticket editing, any comment) in the specified period.

The total **average response time** is a weighted value: *number of objects in a row* * *row value/total number of objects.*

Example:

	Public co	mments		d internal nents	Tickets with which the user has been working		
Employee	number	average per day	number	average per day	number	average per day	
Jan Kowalski	15	5	25	8.33	10	3.33	
Piotr Nowak	25	8.33	35	11.67	9	3	
Anna Nowak	20	6.67	30	10	11	3.67	
total	60		90		30		

Visual presentation:

Chart: bar chart of the number of public comments for the user + dotted line with mean value.

Chart: bar chart of the number of public and internal comments for the user + dotted line with mean value.

Chart: bar chart of the number of tickets with which the user has been working + dotted line with mean value.

Chart: bar chart of the daily average number of public comments for the user + dotted line with mean value.

Chart: bar chart of the daily average number of public and internal comments for the user + dotted line with mean value.

Chart: bar chart of the average daily number of tickets with which the user has been working + dotted line with mean value.

First response time by users

The report allows to compare the response times of specific technical support employees for the tickets with the first response taken in the specified period.

Arguments:

Argument name	Possible values	Selection method	Default value	Remarks
Response date until:	date (range: 1 day)	date selection	last day of the last month	not possible to select the current day; maximum time from the start date: 100 days
Response date from:	date (range: 1 day)	date selection	first day of the last month	no date limitations
First response person:	(any), multiple choice from user list	multiple choice	(any)	list is limited to users with "administrator" or "technical support" role.

Reported data:

Response time: time from ticket creation to the first public comment by a user with "administrator" or "technical support" role.

The total **average response time** is a weighted value: *number of objects in a row* * *row value/total number of objects.*

Example:

User	Number of	Numl	ber of tickets	time	Response time		
performing the first response		up to 1 h	more than 1 h - up to 8 h	more than 8 h - up to 24 h	more than 24 h	average	maximu m
Jan Kowalski	200	60	100	30	10	50 min	2 h

User	Number of	Numl	per of tickets	with response	time	Response time	
performing the first response	-		up to 1 h h - up to 8 h - up to		more than 24 h	average	maximu m
Piotr Nowak	430	120	200	90	20	1 h	2 h 20 min
Anna Nowak	140	30	50	60	0	1 h 10 min	1 h 40 min
total	770	210	350	180	30	-	-

Visual presentation:

Chart: bar chart of the number of tickets for the user who performed the first response + dotted line with mean value.

Chart: bar chart of the number of tickets with response time of up to 1 h, 1 to 8 h, 8 to 24 h, more than 24 h for the user who performed the first response.

Chart: bar chart of the average response time for the user who performed the first response + dotted line with mean value.

10.8.2.3 Unclosed tickets reports

The reports show data on tickets currently being processed in the system. Reports from this group offer information about the current system status, e.g. the current number of tickets.

The reports work as views - re-generation of the report can produce different results each time.

Types of currently processed ticket reports (click the report name to expand the description):

Unclosed tickets summary

The report presents properties of all of the currently unclosed tickets. It allows to assess their progress and time when the tickets remain without solution.

Argument name	Possible values	Selection method	Default value	
Category:	(any), multiple choice from category list	multiple choice	(any)	
Assignee:	(any), (none), multiple choice from assignee list	multiple choice	(any)	

Argument name	Possible values	Selection method	Default value
Department:	(any), (none), multiple choice from department list	multiple choice	(any)
Show unassigned tickets:	true, false	checkbox	true
Show tickets without department:	true, false	checkbox	true
Priority:	(any), multiple choice from priority list	multiple choice	(any)

First response – the first public comment added by a user in "administrator" or "technical support" role.

Example:

		Numb	Number of tickets in status				per of kets	Number of tickets			
	Total number of unclosed tickets	new	open	waiti ng for respo nse	suspe nded	assign ed to assign ee	not assign ed to any assign ee	witho ut first respo nse	for which the first respo nse was taken	Average time from creation for tickets without first response	Average time from creation for unclosed tickets
Num ber	40	5	10	20	5	38	2	7	33	30 min	1 h 10 min

Visual presentation:

Chart: bar chart of the number of tickets in "new", "open", "waiting for response", "suspended" status.

Chart: pie chart of the number of unclosed tickets not assigned and assigned to any assignee.

Chart: pie chart of the number of unclosed tickets without the first response and with the first response already taken.

Unclosed tickets by assignees

The report presents the current workload of the technical support employees within the system.

Argument name	Possible values	Selection method	Default value
Category:	(any), multiple choice from category list	multiple choice	(any)
Assignee:	(any), (none), multiple choice from assignee list	multiple choice	(any)
Department:	(any), (none), multiple choice from department list	multiple choice	(any)
Show unassigned tickets:	true, false	checkbox	true
Show tickets without department:	true, false	checkbox	true
Priority:	(any), multiple choice from priority list	multiple choice	(any)

First response: the first public comment added by a user in "administrator" or "technical support" role.

The total **average time** is a weighted value: *number of objects in a row* * *row value/total number of objects.*

Example:

		Nun	nber of tic	kets in sta	atus			
Employee	Employee Number of unclosed tickets new open for respon ded	suspen ded	Number of tickets without first response	Average time without first response	Average time from ticket creation			
Jan Kowalski	10	1	3	5	1	1	30 min	1 h
Piotr Nowak	19	1	5	10	3	2	45 min	1 h 30 min
Anna Nowak	5	0	1	3	1	0	-	30 min
average	10	0.67	3	6	1.67	1	40 min	1 h 30 min
total	30	2	9	18	5	2	-	-

		Num	nber of tic	kets in sta	atus			
Employee	Number of unclosed tickets	new	open	waitin g for respon se	suspen ded	Number of tickets without first response	Average time without first response	Average time from ticket creation
(no assignee)	1	1	0	0	0	0	-	10 min

Visual presentation:

Chart: bar chart of the number of unclosed tickets for the assignee + dotted line with mean value.

Chart: bar chart of the number of tickets in "new", "open", "waiting for response", "suspended" status.

Chart: bar chart of the number of tickets without the first response for the assignee + dotted line with mean value.

Chart: bar chart of the average time without the first response for the assignee + dotted line with mean value.

Chart: bar chart of the average time from ticket creation for the assignee + dotted line with mean value.

Unclosed tickets by priorities

The report presents the current number and status of unsolved tickets with the specified priority.

Arguments:

Argument name	Possible values	Selection method	Default value	
Category:	(any), multiple choice from category list	multiple choice	(any)	
Assignee:	(any), (none), multiple choice from assignee list	multiple choice	(any)	
Department:	(any), (none), multiple choice from department list	multiple choice	(any)	
Show unassigned tickets:	true, false	checkbox	true	
Show tickets without department:	true, false	checkbox	true	
Priority:	(any), multiple choice from priority list	multiple choice	(any)	

Reported data:

First response: the first public comment added by a user in "administrator" or "technical support" role.

The total **average time** is a weighted value: *number of objects in a row* * *row value/total number of objects.*

Example:

		Number of tickets in status						
Priority	Number of unclosed tickets	new	open	waitin g for respon se	suspen ded	Number of tickets without first response	Average time without first response	Average time from ticket creation
High	10	1	3	5	1	1	30 min	1 h
Medium	19	1	5	10	3	2	45 min	1 h 30 min
Low	5	0	1	3	1	0	-	30 min
average	10	0.67	3	6	1.67	1	40 min	1 h 30 min
total	30	2	9	18	5	2	-	-

Visual presentation:

Chart: bar chart of the number of unclosed tickets for the priority + dotted line with mean value.

Chart: bar chart of the number of tickets in "new", "open", "waiting for response", "suspended" status for the priority.

Chart: bar chart of the number of tickets without the first response for the priority + dotted line with mean value.

Chart: bar chart of the average time without the first response for the priority + dotted line with mean value.

Chart: bar chart of the average time from ticket creation for the priority + dotted line with mean value.

Closed tickets by categories

The report presents the current number and status of unsolved tickets with the specified category.

Argument name	Possible values	Selection method	Default value	
Category:	(any), multiple choice from category list	multiple choice	(any)	

Argument name	Possible values	Selection method	Default value	
Assignee:	(any), (none), multiple choice from assignee list	multiple choice	(any)	
Department:	(any), (none), multiple choice from department list	multiple choice (any)		
Show unassigned tickets:	true, false	checkbox	true	
Show tickets without department:	true, false	checkbox	true	
Priority:	(any), multiple choice from priority list	multiple choice	(any)	

First response: the first public comment added by a user in "administrator" or "technical support" role.

The total **average time** is a weighted value: *number of objects in a row* * *row value/total number of objects*.

Example:

		Number of tickets in status						
Category	Number of unclosed tickets	new	open	waitin g for respon se	suspen ded	Number of tickets without first response	Average time without first response	Average time from ticket creation
Printers	10	1	3	5	1	1	30 min	1 h
Scanners	19	1	5	10	3	2	45 min	1 h 30 min
Monitors	5	0	1	3	1	0	-	30 min
average	10	0.67	3	6	1.67	1	40 min	1 h 30 min
total	30	2	9	18	5	2	-	-

Visual presentation:

Chart: bar chart of the number of unclosed tickets for the category + dotted line with mean value.

Chart: bar chart of the number of tickets in "new", "open", "waiting for response", "suspended" status for the category.

Chart: bar chart of the number of tickets without the first response for the category + dotted line with mean value.

Chart: bar chart of the average time without the first response for the category + dotted line with mean value.

Chart: bar chart of the average time from ticket creation for the category + dotted line with mean value.

Closed tickets by departments

The report presents the current number and status of unsolved tickets with the specified priority.

Arguments:

Argument name	Possible values	Selection method	Default value
Category:	(any), multiple choice from category list	multiple choice	(any)
Assignee:	(any), (none), multiple choice from assignee list	multiple choice	(any)
Department:	(any), (none), multiple choice from department list	multiple choice	(any)
Show unassigned tickets:	true, false	checkbox	true
Show tickets without department:	true, false	checkbox	true
Priority:	(any), multiple choice from priority list	multiple choice	(any)

Reported data:

First response: the first public comment added by a user in "administrator" or "technical support" role.

The total **average time** is a weighted value: *number of objects in a row* * *row value/total number of objects*.

Example:

		Nun	Number of tickets in status					
Department	Number of unclosed tickets	new	open	waitin g for respon se	suspen ded	Number of tickets without first response	Average time without first response	Average time from ticket creation
Warsaw	10	1	3	5	1	1	30 min	1 h
Wroclaw	19	1	5	10	3	2	45 min	1 h 30 min

		Number of tickets in status						
Department	Number of unclosed tickets	new	open	waitin g for respon se	suspen ded	Number of tickets without first response	time st without first	Average time from ticket creation
Krakow	5	0	1	3	1	0	-	30 min
average	10	0.67	3	6	1.67	1	40 min	1 h 30 min
total	30	2	9	18	5	2	-	-

		Nun	Number of tickets in status					
Department	Number of unclosed tickets	new	open	waitin g for respon se	suspen ded	Number of tickets without first response	Average time without first response	Average time from ticket creation
(no department)	1	1	0	0	0	0	-	10 min

Visual presentation:

Chart: bar chart of the number of unclosed tickets for the department + dotted line with mean value.

Chart: bar chart of the number of tickets in "new", "open", "waiting for response", "suspended" status for the department.

Chart: bar chart of the number of tickets without the first response for the department + dotted line with mean value.

Chart: bar chart of the average time without the first response for the department + dotted line with mean value.

Chart: bar chart of the average time from ticket creation for the department + dotted line with mean value.

10.8.3 SLA reports

10.8.3.1 Closed tickets under SLA reports

Closed tickets under SLA reports display the statistics of closed tickets processed under SLA metrics. This group of reports enables the investigation into how the service level agreement provisions were fulfilled.

The reports are archival. Re-generation of a report with the same arguments will always produce the same results.

Reported data

The report only includes the metrics which have not been invalidated and are related to the tickets closed in the specified time interval.

Tickets with fulfilled SLA – counts the tickets with a metric which has not been violated and has completed its run due to an event which effectively closes it (first response, ticket closure).

Tickets with violated SLA – counts the tickets with a metric which has been violated and completed its run due to an event which effectively closes it.

SLA fulfillment (%) – number of tickets, for which the metric has been fulfilled / number of all tickets with any metric.

SLA violation / average / maximum / total – time running from the moment of violation (if a metric was exceeded by one hour, the violation time is one hour). Pertains only to the period when the metric was active. Includes all violated metrics (without the invalidated ones).

Average SLA measurement duration – average run time for all completed metrics. Pertains only to the period when the metric was active.

Total time average is counted by weight: *number of objects in a row * row value/total number of objects*.

10.8.3.2 SLA metric course reports

SLA metric course reports display the events that occurred during the SLA metric run. The purpose of this group of reports is to monitor the tasks executed under the service level agreement.

Reported data

The report does not include metrics in tickets removed by the administrator.

Tickets with SLA measurement – counts the tickets covered by the metric where the coverage started within the specified report time range.

Tickets with violated SLA – counts the ticket with a violated metric where the violation occurred within the specified report time range.

Tickets with completed measurement and fulfilled SLA – counts the tickets with a metric which has not been violated and has completed its run due to an event which effectively closes it (first response, ticket closure) within the specified report time range.

Tickets with completed measurement and violated SLA – counts the tickets with a metric which has been violated and has completed its run due to an event which effectively closes it within the specified report time range.

10.8.3.3 SLA violation reports

SLA violation reports display the tickets with a violated SLA metric. The purpose of this group of reports is to investigate the incidents of service level agreement breaches.

Reported data

The report contains one line per ticket with a violated SLA metric.

The report does not show tickets with invalidated metrics (even if the metrics had been violated). The report does not show tickets deleted by the administrator.

SLA violation is the time running from the moment of violation (if a metric was exceeded by one hour, the violation time is one hour). Pertains only to the period when the metric was active.

If the violated metric has not been completed yet or the ticket has not been closed yet, the cell displays an empty value.

The report does not perform any aggregation operations and does not include any visual representation.

If no ticket shows an SLA violation in the specified time range, the interface displays "No tickets with violated SLA metric" message instead of the table. Such a report cannot be exported.

10.9 Absence plan

The absence plan is a system for reporting the absences of HelpDesk Administrators and **Employees.** The purpose of the function is to plan the appropriate ticket system operation when the person assigned to ticket handling is absent.

Absence plan **does not support** vacation management, understood as calculating the number of vacation days eligible for an individual employee.

Absence times (start/end dates and hours) pertain to the local time of the machine where the Axence nVision® Server (HelpDesk service) is installed.

To add an absence plan, log in to the HelpDesk interface, go to the **Absence plan** view and click the **Add absence plan** button - a wizard will be displayed, which will allow to easily select the period of planned absence

Take the steps:

- 1. Find the name in drop-down list of the **HelpDesk employee** for whom the absence is to be planned.
- 2. Using the calendar, indicate the period of employee's absence
- Select the deputy the person who will receive notifications about changes in tickets assigned to the absent person. Then choose the color to mark the absence in the calendar. It is also possible to check the box that will extend the visibility of notifications for the person replacing absent employee.

In the period for which an absence is planned, tickets will still be assigned to the absent HelpDesk employee (according to <u>ticket assignment rules</u> [459] and <u>automations</u> [460]), and the substitute will receive e-mail notifications about new tickets assigned to the absentee and about the requesters' comments.

They can also see all the tickets assigned to the absentee. After the absence period is over, the defined substitution is disabled and the substitute will no longer receive the mentioned notifications.

≡ 🚯 HelpDesk	Q Enter a search phrase or a	ticket ID Advanced sear	ch					III 🗘 📮 📣
GH Dashboard	VIEWS Calendar	Absence plans - m	onthly calendar	Add absence plan			< M	ay 2022 🗎 >
Knowledge base	Table 0	SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
EVENT log	FILTERS	1	2	3	4	5	TODAY 6 Christopher, Substitute: Administ	rator ×
	Week PLANNED ABSENCES Christopher	8 Christopher, Substitute: Administra	9 tor	10	11	12 ~	13	14
		15	16	17	18	19	20	21
		22	23	24	25	26	27	28
Absence plan								
Ticket visibility		29	30	31				4
CV Ticket assignment								
Automations								
SLA metrics	Collapse all				8			
Settings	Anonymous ticket					English (US) 🔨 🗌 Help Cer	iter Share an opinion All rights res	erved © 2022 Axence Sp. z o.o. Sp. J.

10.10 Trouble ticket assignment

In the HelpDesk, in the **Ticket assignment** section, you can add, edit or delete the ticket assignment rules. The ticket assignment rules are used to automate the ticket assignment to a particular HelpDesk Employee or Administrator, thereby facilitating the work and effectively reducing the ticket processing time.

Adding a ticket assignment rule

To add a ticket assignment rule, log in to the HelpDesk module as the Administrator and:

1. In the flyout menu on the left side of the window, click the Ticket assignment.

2. Click the Add rule button.

3. Click the **Select user** field, and then select the HelpDesk Employee or the Administrator from the drop-down list.

4. Select whether the assignment rule is to apply to All or only the Selected tickets.

5. If you have chosen the option for Selected tickets, configure the conditions for this rule.

6. If you want the ticket assignment rule to be **disabled** after creation, click the slider (by default, the rule is **enabled** after creation).

7. Click the Add rule button.

8. Once you have properly completed the steps above, the ticket assignment rule will be created and the relevant message will appear in the upper right corner of the screen.

Editing a ticket rule

To create a ticket assignment rule, log in to the HelpDesk module as the Administrator and:

1. In the flyout menu on the left side of the window, click the Ticket assignment.

2. Hover over the user whose rule you want to activate/deactivate and click the Edit button.

3. In the ticket assignment rule edition panel, make changes to the rule, and then click the **Save** changes button.

Once you have completed the steps above, the ticket assignment rule will be permanently **deleted** and the relevant message confirming the successful completion of the action will appear in the upper right corner of the screen. The removed rule will not appear in the ticket assignment rule list.

Deleting a ticket rule

To create a ticket assignment rule, log in to the HelpDesk module as the Administrator and:

1. In the flyout menu on the left side of the window, click the **Ticket assignment**.

2. Hover over the user whose rule you want to activate/deactivate and click the **Delete** button.

3. In the ticket assignment rule deletion window, click the **Delete the rule** button.

Once you have completed the steps above, the ticket assignment rule will be permanently deleted and the relevant message confirming the successful completion of the action will appear in the upper right corner of the screen. The removed rule will not appear in the ticket assignment rule list.

Activating/deactivating a ticket assignment rule

To activate or deactivate a ticket assignment rule, log in to the HelpDesk module as the Administrator and:

1. In the flyout menu on the left side of the window, click the **Ticket assignment**.

2. Hover over the user whose rule you want to activate/deactivate and click the slider.

Once you have properly completed the steps above, the rule will be **activated or deactivated** and the relevant message will appear in the upper right corner of the screen. **From now on, new tickets will or will not be assigned according to the rule**.

Related topics

Categories

User management

Management and configuration 351

10.11 Automations

10.11.1 Automations - overview

Automations are a brand new, breakthrough function of the Axence nVision® HelpDesk. The purpose is to noticeably accelerate the trouble ticket processing by HelpDesk employees. Their everyday work scenarios include many regular, recurring activities. These happen in specific conditions and call for actions defined within the workflow. Automations enable the time necessary for efficient ticket processing to be reduced and they also accelerate the response to events occurring in the network and to improve processes within the organization.

The HelpDesk module includes a few pre-built automations, which help to introduce the administrator to the structure of such mechanisms.

= 😫 HelpDesk	Q. Enter a search phrase or a	ticket ID	Advanced search						
©ii Dashboard ∭] Tickets	VIEWS All automations 3		automations (3) Add subsmution						
Knowledge base Event log	FILTERS () ~ STATUS		Marking the ticket as response pending utomation marks the ticket as response pending when the technical support engineer provides a public response to the person reporting the problem.						
EØ Event log	Active Inactive	WHEN: After update	CONDITIONS: ACTIONS: ACTIONS: Public comment was not added by a user with the role 'User' O1. Change status to 'Walting for response' and ticket status is equal to 'Open'						
	After update 3 Opening the ticket after a response from the person reporting. Checked on the0 Automation reopens the ticket when the person reporting responds to the technical support engineer.								
	Action Adding to the lis 0 Adding text to t 0 Adding an inter 0	WHEN: After update	CONDITIONS: ACTIONS: ACTIONS: Public comment was added by a user with the role 'User' O1. Change status to 'Open' and ticket status is equal to 'Waiting for response'						
	Assignments of 0 Notifications se 0 Category change 0		ket after work on the ticket has been started the ticket when the technical support engineer starts to work on it or edits its properties.						
	Priority change 0 O Status change 3	WHEN: After update	CONDITIONS: ACTIONS: Updater does not have a role of 'User' 01. Change status to 'Open' and internal comment was not added and ticket status is equal to 'New'						
8 Absence plan									
Dicket visibility									
Ticket assignment		EMBEDDED ME	Losful information v EMBEDDED MECHANISM ACTIVATION SEQUENCE SEE ALSO						
Automations			EMBEDDED MELFANISM ACTIVATION SEQUENCE SEE ALSO After ticket creation: Execute automation > [7] Assign the ticket according to the rules Help center - Automations After ticket update and checked on the hour: Execute automation Ticket assignment						
SLA metrics	Collapse all								
Settings	Anonymous ticket		English (US) A Help Center Share an opinion All rights reserve	d © 2022 Axence Sp. z o.o. Sp. j.					

10.11.2 Automation list

The defined automation rules are presented as a list showing the specific rules in the form of tiles.

A single tile representing the specific automation includes:

- automation title,
- context actions allowing the editing, deleting and change of the status of the automation,
- automation status as a colored bar: red deactivated automation, green active automation,
- automation description,
- automation trigger,
- · list of conditions,
- list of actions.

= 🚯 HelpDesk	Q Enter a search phrase or a ti	cket ID Advanced s	earch					
Con Dashboard	VIEWS All automations 3	All automations Each ticket is subject to the folio						
Knowledge base Event log	FILTERS (2) STATUS Active 3	Marking the ticket as response pending. Automation marks the ticket as response pending when the technical support engineer provides a public response to the person reporting the problem.						
Reports	Inactive 0	WHEN: After update	CONDITIONS: Public comment was not added by a user with the role 'User' and ticket status is equal to 'Open'	ACTIONS: 01. Change status to 'Waiting I	for response'			
	After update 3 Checked on the 0 ACTION		response from the person reporting when the person reporting responds to the technical support engineer.					
	Adding to the lis 0 Adding text to t 0 Adding an inter 0	WHEN: After update	CONDITIONS. Public comment was added by a user with the role 'User' and ticket status is equal to Waiting for response '	ACTIONS: 01. Change status to ' Open '				
	Assignments of 0 Notifications se 0 Category change 0		ork on the ticket has been started hen the technical support engineer starts to work on it or edits its properties.					
	Priority change 0 Status change 3	WHEN: After update	COMPTONS: Updater does not have a role of "User" and internal comment was not added and ticket status is equal to "New"	ACTIONS: 01. Change status to 'Open'				
2 Absence plan								
🔯 Ticket visibility								
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Automations		EMBEDDED MECHANISM ACTIVATION SEQUENCE SEE ALSO After ticket creation: Execute automation > CAter ticket update and holdered on the hour: Execute automation Ticket according to the rules Ticket according to the signment						
SLA metrics	Collapse all							
🚯 Settings	Anonymous ticket			English (US) 🔨 Help Center Shar	e an opinion All rights reserved	D 2022 Axence Sp. z o.o. Sp. j.		

The left-hand part of the automation list displays a quick preview, which allows the automations to be efficiently filtered:

- state:
 - active,
 - deactivated,
- trigger:
 - performed when the trouble ticket is created,
 - performed when the trouble ticket is updated,
 - performed daily.

10.11.3 Adding an automation

The automation addition view enables the determination of the conditions and actions which are to be performed in a specified situation.

=	🚯 HelpDesk	Q Enter a search phrase or a ticket ID Advanced search	888 Q (R
01		Adding an automation		
C)J		GENERAL INFORMATION		
E		Name: Énter a unique automation name		
5				
₿		Description: Enter a description of the automation 300 minuteer		
		Status after creation:		
		CONDITIONS		
		If met all + conditions for ticket after it has been created +		
		if Ticket priority + Is equal to + Select priority + 🗊		
		and Add a condition		
		ACTIONS		
		•		
		Add action		
&⊗				
1		Add automation Cancel		
ß				
۰				
È				
Ô		Anonymous ticket English (US) A Help Center Share an opinion All rights reserv	ed © 2022 Axence Sp	. z o.o. Sp. j.

To add an automation:

- 1. Log in to the HelpDesk interface.
- 2. In the main navigation, on the left-hand side of the interface, select Automations.
- 3. In the automation list click the Add automation button.
- 4. Fill in the fields:
- name specify the name of the new automation,
- description you can add a short description of the automation operation.
- 5. Determine the automation status after it has been created.
- 6. Specify the automation trigger type when it should be performed:
- daily an automatic procedure for checking the list of unclosed tickets is launched every day. Within its operation, the conditions defined by the administrator are checked and determined actions are taken. **Example**: Set the status to "Closed" for tickets not updated for 14 days.
- after a new ticket has been created,
- after a ticket has been updated.
- 7. Define the condition application logic:

You can specify whether in order for the automation to be applied, the processed ticket should meet any or all of the conditions defined below.

To add another condition, click the Add condition link.

8. Specify the actions which are to be taken, if the trouble ticket meets the conditions:

To add another action, click the Add action link.

9. Save the automation by clicking the Add automation button.

10.11.4 Automation conditions

The automation rules which are created should be as simple as possible.

Object options	Condition
contains at least one of the words	
does not contain any of the words	
contains all of the following words	enter words divided by common
contains at least one of the words	enter words divided by commas
does not contain any of the words	
contains all of the following words	
is equal to	
is not equal to	
is higher than or equal to	a clast priority
is higher than	select priority
is lower than or equal to	
is lower than	
is the default priority	
is not the default priority	-
is equal to	a clast actor on (
is not equal to	select category
is the default category	
is not the default category	-
is equal to	onter the requestor
is not equal to	enter the requester
is equal to	enter the device name
is not equal to	
is set	
is not set	-
is equal to	enter the department
is not equal to	
is set	
is not set	
is is not	enter the ticket source
is equal to is not equal to is set is not set belongs to group	enter the assignee
	contains at least one of the words does not contain any of the words contains at least one of the words does not contain any of the words does not contain any of the words contains all of the following words is equal to is not equal to is higher than or equal to is higher than or equal to is lower than or equal to is lower than is the default priority is not the default priority is not equal to is set is not equal to is set is not set is not set is not set is not set is not equal to is set is not set is not set is not set is not set is not equal to is not equal to is set is not set is not set is not set is not equal to is

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Object	Object options	Condition
	was changed	
	was not changed	-
Ticket subject	contains at least one of the words	
	does not contain any of the words	enter words divided by commas
	contains all of the following words	
	was changed	_
	was not changed	-
	was changed to	
-	was changed to status other than	New
Ticket status	was changed from	Open
	was changed from other than	Waiting for response Suspended
	is equal to	Closed
	is not equal to	
	was changed	
	was not changed	-
	was changed to priority higher than or equal to	
	was changed to priority higher than	
	was changed to priority lower than or equal to	select priority
	was changed to priority lower than	
	was changed to default	
	was changed to priority other than default	-
Ticket priority	was changed to	
nokot phoney	was changed to status other than	
	was changed from	
	was changed from other than	
	is equal to	select priority
	is not equal to	Select phonty
	is higher than or equal to	
	is higher than	
	is lower than or equal to	
	is lower than	
	is the default priority	
	is not the default priority	
	was changed	
Ticket category	was not changed	-
	was changed to default	

	was changed to other than default was changed to was changed to other than was changed from was changed from other than is equal to is not equal to	select category
	is the default category is not the default category	-
	was changed	
	was not changed	-
	was changed to	
	was changed to other than	
Requester	was changed from	
	was changed from other than	enter the requester
	is equal to	
	is not equal to	
	was changed	
	was not changed	
	was changed to set	-
	was changed to not set	
	was changed to	
Related device	was changed to other than	
	was changed from	enter the device name
	was changed from other than	
	is equal to	
	is not equal to	
	is set	
	is not set	-
	was added	
	was not added	
Public comment	was added by user with the role	Administrator
	was not added by user with the role	HelpDesk Staff End-user
	was added	
	was not added	-
Internal comment	was added by user with the role	
	was not added by user with the role	Administrator
	has a role	HelpDesk Staff End-user
Updater	does not have a role of	

10.11.5 Automation actions

The following actions can be performed when the trouble ticket meets one or many of the conditions defined in the automation rule:

Action	Description		
Change category	Changes the ticket category.		
Change priority	Changes the ticket priority.		
Change status	Changes the ticket status.		
Assign a related device	Adds the specified device to the trouble ticket summary as a related device.		
Add text to subject	Adds predefined text, e.g. prefix "Important", at the beginning of the ticket subject line		
Add internal comment	Adds a predefined internal comment to the ticket history		
Send notification by e-mail	Sends an e-mail message defined by the administrator (subject + content) to selected users: ACTIONS Send notification by e-mail to: e-mail addresses: Enter an e-mail address selected users: Select a user requester (if set) Enter a subject Enter a message		
Add to the list of observers	Adds selected users to the list of ticket observers.		

Actions are available depending on the selected automation conditions.

10.11.6 Editing an automation

To edit an automation:

- 1. Log in to the HelpDesk interface.
- 2. In the main navigation, on the left-hand side of the interface, select Automations.
- 3. In the automation list select the one to be edited.
- 4. In the automation's context menu (upper right corner of the tile), click the Edit link.
- 5. Change the name, description, status, conditions or automation actions, just as in the case of Adding an automation 462.

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6. Save changes by clicking the Save changes button.

=	🚯 HelpDesk	Q. Enter a search phrase or a ticket ID Advanced search	ii 4 📮 🔿				
01		C Editing automations					
M		GENERAL INFORMATION					
E		* Name: Marking the ticket as response pending					
5							
		Description: Automation marks the ticket as response pending when the technical support engineer provides a public response to the person reporting the problem. Itsi guaranteer					
		Current state: 💽					
		CONDITIONS					
		If met all * conditions for ticket after it has been edited *					
		if Public comment v was not added by a user with t User v					
		and Ticket status • Is equal to • Open •					
		and Add a condition					
		ACTIONS					
		Change status v to • Waiting for response v					
ි		Add action					
(
R?		Save changes Cancel					
1							
È							
÷		Anonymous ticket English (US) A 11 Help Center 1 Share an opinion 1 All rights reserved 0.2	022 Axence Sp. z o.o. Sp. j.				

10.11.7 Activating/deactivating an automation

The created automations can be toggled off (deactivated) for a time when they should not be applied for trouble ticket processing, e.g. when the employee is on holiday. There is no need to remove the automation rule completely.

=	😫 HelpDesk	Q Enter a search phrase or a	ticket ID Advance	d search	888 A 🙀 🖵	
	Dashboard Tickets	VIEWS All automations 3	All automation Each ticket is subject to the f			
5		FILTERS (3) > STATUS - Active (3) Inactive (0) > WHEN	Marking the ticket as n Automation marks the ticket writen: After update	Esponse pending as response pending when the technical support engineer provides a public response to the person reporting conomons: Public comment was not added by a user with the role 'User' and ticket status is equal to 'Open'	he problem. ACTIONS: 01. Change status to 'Waiking for response'	D
		After creation 0 After update 3 Checked on the 0 Adding to the lis 0 Adding to the lis 0 Adding an inter 0 Adding an inter 0	Automation reopens the tic WHEN: After update	r a response from the person reporting et when the person reporting responds to the technical support engineer. Coupmonse Public commence and ticket status is equal to Waiting for response'	ACTIONS: 01. Change status to 'Open'	D
		Notifications se 0 Category change 0 Priority change 0 Status change 3		r work on the ticket has been started when the technical support engineer starts to work on it or edits its properties. Contomous: Updater does not have a role of 'User' and internal comment was not added and ticket status is equal to 'New'	ACTIONS: 01. Change status to 'Open'	
٩			EMBEDDED MECHANISM	ACTIVATION SEQUENCE After ticket creation: ③ Execute automation > [2] Assign the ticket according to update and checked on the hour: ④ Execute automation	Useful information SEE ALSO Useful information the rules Help center - Automations Ticket assignment	1 ~
Ô		Collapse all				
		Anonymous ticket			English (US) A Help Center Share an opinion All rights reserved © 2022 Axence Sp. z	o.o. Sp. j.

To deactivate (or activate) an automation:

- 1. Log in to the HelpDesk interface.
- 2. In the main navigation, on the left-hand side of the interface, select Automations.
- 3. In the automation list select the one to be edited.

- 4. In the automation's context menu (upper right corner of the tile) click the **Deactivate** link (or **Activate**, if the automation is already disabled).
- 5. Confirm the action in the dialog box by clicking the Deactivate (Activate) button.

The automation rule can also be toggled on or off by changing the automation status during editing.

10.11.8 Deleting an automation

To delete an automation rule:

- 1. Log in to the HelpDesk interface.
- 2. In the main navigation, on the left-hand side of the interface, select Automations.
- 3. In the automation list select the one to be deleted.
- 4. In the automation's context menu (upper right corner of the tile) click the **Remove** link.
- 5. Confirm deleting in the dialog box by clicking the **Remove** button.

10.12 SLA metrics

10.12.1 Overview

SLA (*Service Level Agreement*) is an agreement about the guaranteed level of the provided service. The HelpDesk enables the definition of various SLA metrics which allow the monitoring of whether objectives set forth in the SLA agreement are duly executed.

The chapter on the execution of the service level compliance provisions is divided into the following articles:

- <u>SLA metric types</u> 470
- <u>SLA metric conditions</u> 470
- SLA metric validity time 471
- Creating and versioning SLA metrics 472
- Violation of SLA 473
- <u>SLA metrics in tickets</u> 474

Related topics

- Closed tickets under SLA reports
- SLA metric course reports
- SLA violation reports 457

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10.12.2 SLA metric types

Each metric can have one of the two time measurement methods:

• Waiting time for the first response

The metric starts running when a trouble ticket is created.

The metric irrevocably stops when the first public comment, authored by a user with HelpDesk employee or administrator role, appears in the ticket.

• Total waiting time for ticket solution

The metric starts running when a trouble ticket is created.

The metric is suspended when the ticket status is changed to "waiting for response" or "suspended".

The metric is restarted (continues) when the ticket status is changed to "open". The metric irrevocably stops when the ticket status is changed to "closed".

10.12.3 SLA metric conditions

SLA metric can include a defined extensive list of conditions related to:

- ticket priority (is equal to / is not equal to),
- ticket category (is equal to / is not equal to),
- reporting person (is equal to / is not equal to / belongs to group / does not belong to group),
- assigned person (is equal to / is not equal to / belongs to group / does not belong to group),
- ticket source (is an e-mail message / is a web application interface).

Subsequent conditions can be combined only with the logical operator "AND" (i.e. all conditions are met). If a collection of N values is allowed within one condition, the entire item is considered as N conditions combined with the "OR"/"NOR" operator.

A ticket is eligible to be covered by the selected SLA metric if it meets all of its conditions in a continuous manner. If, due to change of a property (e.g. priority), the ticket no longer meets the metric conditions, it is automatically no longer covered by the metric. The metric which no longer covers a ticket automatically stops, regardless of whether it was fulfilled or not.

Analogically – if, after a change of a property the ticket is eligible to be covered by other additional metrics, it is automatically covered by such metrics. If the ticket is covered by the same metric once again, the system handles it as a restart (continuation) of the metric, not as the creation of another instance of the metric.

In certain cases, this may mean that after the change of ticket properties, the new SLA metric will be exceeded from the moment when it begins to cover the ticket.

Example:

There are two SLA metrics in the system:

- 1. Tickets with "high" priority shall be solved in 4 hours.
- 2. Tickets with "critical" priority shall be solved in 2 hours.

A ticket with "high" priority has already been processed for one hour. If its priority gets changed to "critical", it is no longer covered by the first metric and it becomes covered by the second metric. There is only one hour left until the metric is exceeded.

10.12.4 SLA metric validity time

Note: All mechanisms described below are based on the time zone set on the server where the Axence *n*Vision® application is installed. The HelpDesk system does not allow any time zone, other than the local time of the server (with Axence nVision®), to be indicated. It is also not possible to set different time zones for specific users.

Each SLA metric allows one of the two options to be selected during its creation:

- Metric valid without interruptions (All day, all week).
- Metric valid only in specified intervals (Defined days of the week and times of the day):
 - Validity hours can be defined separately for each day of the week (from Monday to Sunday). Each day of the week can have one time span (e.g. 09:00 to 17:00) or none (for days off work). Defining more than one time span for a given day of the week is not possible (e.g. Monday from 08:00 to 11:00, and then from 13:00 to 16:00).
 - A metric with the time span defined in such a manner is considered to be active in hours outside of the specified range, even though its time counter is not running during such periods.

Example:

A metric is valid from 08:00 to 16:00.

The metric requires the ticket to be solved within one hour.

The ticket covered by the metric appears at 15:30 and no-one starts to work on the ticket.

- At 15:31 the metric is running, with 59 minutes left.
- At 16:01 the metric is running, with 30 minutes left.
- At 07:59 on the next day, the metric is running, with 30 minutes left.

At 08:15 on the next day, the metric is running, with 15 minutes left.

At 08:30 on the next day, the metric is exceeded.

When creating the SLA metric, along with the definition of the validity hours, you can also determine whether the metric should stop on days configured as days off work.

Calendar of days off work

If the selected metric is defined as bound by the calendar of days off work, it stops for the days which are indicated in such a calendar. Each day off overrides the metric validity hours which are specified in its configuration.

The calendar of days of work can be configured during the creation of SLA metrics 4721.

The system has a calendar of days off work where specific days can be defined as days off:

- A day off work shall be considered as a specific day of a specific month and of a specific year, starting on 00:00 (inclusively) and lasting until the hour of time quantum prior to 00:00 on the next day, according to the server time where the Axence nVision® application is installed.
- Persons authorized to edit the days off work are solely the users with the Administrator role; only days which have not started yet can be edited. If a day off has already started, there is no way to cancel its definition.
- Days off work can be defined only as single days (it is not possible to specify a range of dates, e.g. "December 24-26, 2017").
- Defining cyclical days off is not possible.
- The calendar of days off work is shared by all SLA metric definitions.

10.12.5 Creating and versioning SLA metrics

Creating user groups in Axence nVision®

To create a user group:

- 1. In the main window of the Axence nVision® console, click the <u>Users</u> section icon.
- 2. Go to the Tools and options tab.
- 3. Click the Add group button.

To add a user to the group:

- 1. Go to the Users section in the Axence nVision® Console.
- 2. Drag the selected users to the target group.

To create an SLA metric:

- 1. In the HelpDesk web interface, navigate (as an administrator) to the SLA metrics view.
- 2. Click the Add SLA metric button.
- 3. In the metric adding dialog box, enter the metric properties:
 - Name for better identification of the SLA metric. Maximum length: 150 characters.
 - Description (optional) additional description field; can be used by the user for any purpose. Maximum length: 300 characters.
 - List of conditions 470 a collection of conditions describing the tickets which the metric will be applied to.
 - <u>Metric type [470] the method of time measurement by the given metric.</u>
 - Time limit the time value which, if exceeded, means that the SLA conditions are violated. Minimum value: 30 minutes, maximum value: 31 days.
 - Alert an additional e-mail address for sending notifications on each metric violation (optional).
 - <u>Validity time</u> 471 a field allowing the selection of either the mode without interruption, or the mode where time runs only in specified periods.

- List of hours (optional) if the interrupted mode was chosen, this field is used to define the hours within which the SLA limit is running (for a specific day of the week).
- <u>Calendar of days off work</u> [471] true/false field, which decides whether the SLA metric is stopped during days off work. Click the *With exclusion of days off work* link to define the list of days off work.
- 4. To save the metric, click the Add SLA metric button.

Versioning of SLA metrics

SLA metric is a versioned entity where all of its properties, except for the name, are subject to versioning. The name is the parameter which remains common for subsequent metric versions and is editable at any time.

Adding a new metric is equivalent to the creation of its first version. When a version is set, its "validity start date" is set as the current date. It means that only tickets reported after this date can by covered by this version of the metric.

When a version of SLA metric is created, it is not possible to re-edit it. Once created, the SLA metric version can be only archived or archived with the simultaneous creation of a new version.

Archiving SLA metric version

When archiving, the "validity end date" in the metric is automatically set to the current date. It means that all tickets created after that date cannot be covered by the metric. Tickets currently covered by the archived metric will remain covered by this version until the end of their life cycle (if they meet metric conditions).

Creating a new SLA metric version

In the case of a valid SLA metric, you can create a newer version of it (always with the simultaneous archiving of the current version). It allows the continuity of such a metric to be maintained.

If a new metric version is created, the system automatically substitutes values from the older version into the respective data fields.

A new version of the metric can also be created for each metric which had previously been archived without creating a new version of it.

Formally, each new version is an independent SLA metric. Metrics are grouped by name only to support their change management processes.

To simplify the system, it is not possible to edit the version validity dates manually. The current version is always valid from the moment of its creation, and has no end date until it is archived.

10.12.6 Violation of SLA

Violation of SLA metric is the expiry of the time limit defined in the metric. Once violated, the metric is permanently visible in the history of metrics covering the given ticket (even if the ticket no longer fulfills its conditions).

A metric can be violated only once. If a violated metric ceases to cover a ticket (and was stopped due to this), and then starts to cover the ticket once again, the metric is treated as if it had been running without interruption from the very beginning.

Metric running time and the duration of ticket covered by the metric are measured and processed separately by the system.

Example:

A ticket has a "critical" priority and is covered by metric: "critical priority tickets shall be solved in 4 hours".

The ticket is in "open" status all the time.

After 4 hours, the metric is exceeded.

After 5 hours, the ticket ceases to be of "critical" priority. The metric stops running, but it will be forever visible in the ticket as exceeded by one hour.

After 6 hours, the tick et still has the same metric visible as exceeded by one hour.

After 7 hours, the ticket is once again assigned with "critical" priority. The same metric is from now on visible as active and exceeded by 3 hours.

After 8 hours, the ticket status is changed to "closed". The metric is irrevocably stopped with a state of exceeded by 4 hours.

When SLA metric violation occurs, a notification is generated (in the interface and as an e-mail message) to the person currently assigned to the ticket and to the e-mail address defined in the metric (if any).

For the purposes of ticket visualization in the ticket list, a dynamically generated "SLA violation date" column is defined. The column shows the earliest SLA violation date (also including overdue items) of all metrics active in relation to the ticket. If no metric is currently active, the column holds no value. If SLA time limit has expired, the value in the column is highlighted in orange.

If the ticket starts to be covered by a new SLA metric for which the time limit has already expired, the system also distributes notification about such a fact. However, each ticket cannot generate more than one time limit expiry notification for each SLA metric.

Example:

Ticket "X" is covered by metric "A".

Metric "A" is violated.

Notification about the violation of metric "A" in ticket "X" is distributed.

Ticket "X" properties are edited in such a manner so that it is no longer covered by metric "A".

The ticket properties are re-edited in such a manner that it is once again covered by (already overdue) metric "A".

Repeated notification is not sent, as one notification about metric "A" in relation to ticket "X" has already been generated.

10.12.7 SLA metrics in tickets

A ticket can be covered by any number of metrics of any type. The metrics covering the ticket are only visible for users with "HelpDesk employee" or "Administrator" roles.

The <u>ticket details</u> wew (section "Service provision level") for the ticket covered with SLA metrics enables the metrics to be checked, according to the following classification:

1. Active metrics

These are metrics measuring the time until the first response (currently running) and metrics of the total ticket solution time (running or not running). The list must be sorted from the metric with the shortest time until expiry (or from the metric exceeded to the largest extent).

Sorting in such a way allows the user to focus on SLA metrics which are running or which can be restarted. It lets the user check the metrics which can be still fulfilled.

2. Completed metrics

These are metrics which are no longer running:

- metrics of time of waiting for the first response after the first response is given,
- metrics of **total ticket solution time** after the ticket is closed, or metrics which were violated and then ceased to cover the ticket (and therefore their run is also completed).

Completed metrics allow you to check in what period they covered the ticket, and whether they were violated or not.

It lets you confirm in detail whether the provisions of any SLA were violated in the history of work on the ticket.

For the purposes of ticket visualization in the ticket list, a dynamically generated "SLA violation date" column is defined. The column shows the earliest SLA violation date (also including overdue items) of all metrics active in relation to the ticket. If no metric is currently active, the column holds no value. If SLA time limit has expired, the value in the column is highlighted in orange.

Dates in the ticket list are not updated automatically and always show the system status at the moment when the list was loaded. Single ticket detail view is updated on a current basis (max. every minute).

If the ticket is closed, it cannot be covered by any new metrics (even if the users' assignment to groups are changed). All metrics stop running and the period covering the specific ticket is formally ended.

10.13 Announcements

The messaging mechanism available in HelpDesk module allows passing information to users with installed Agent in an easy way, setting their validity time, and collecting the message read notifications from the users.

A message can be created by the administrator after logging in to the **HelpDesk Console**, with use of the **Announcements** option located on the right-hand side of the interface.

Creating a message

In order to create a new message, select **HelpDesk / Announcements / Create a new announcement** and fill in the fields described below.

Field Description

Title	Message title.		
Туре	Depending on the type of information, one of the three available types can be chosen: Information , Warning , Alert .		
Send to	Send message to All hosts , Selected hosts (choose from the list of hosts) or Selected users (choose from the list of users).		
Message	Message contents.		
Confirmation	If the Confirmation field is checked, the user will see the confirmation text presented below. Similarly, if the Mandatory confirmation field is checked, the user will not be able to use HelpDesk any further, before they confirm the reading of the message.		
Enabled	An active (enabled) alert will be displayed in the time range specified by the start and end dates. It is possible to create an inactive message, i.e. one without a determined time of displaying. To change the message status or contents, click the Edit button.		
Moin Tools About NVision 36 Global search (Ctrl+G)	- 3 ×		
Tors Room International Control Room Intern	Image devices devices Image devices permissions Image devices Image devices		

Generate MSI packages Print bar Asset protocol manager codes settings	etempases and the Manage evence permissions and princed. Configure Reports View Alter's Distribution Announcements gain Open Open Open Open Open Open Open DataGawed Princed Princed Reports and detrist HelpDexk SmartTime AdminCenter	^
Devices Users Assets Q. Search (Ctrl+F)	Map List Agents Hardware History Security ▶ / 1 □ □ □ A _ Doperties Q, Q, □ rr 冊 + 冊 Sect gl +	Map edit 🗾 🔽
All devices (Atlas) NETWORKS	Network Device Down M1/6231	
CUSTOM MAPS		
DEPARTMENTS	CONVALUS-SOCIIS SUSPENDISE/HID/RENT 1921-8611118 1921-86111.141	
SMARTMAPS		
ACTIVE DIRECTORY	Prove Down End 220 Down End 230 Down End 230	
What's new?	2 Event Log	
Devices: 226 (59 Ok, 20 Warning, 106 Down)	Services: 644 (278 DK, 342 Down) Alerts: 0 (Device with alerts: 0)	

Announcements	Create new announcemen	nt 🖆 Copy announcement 👱 Ed	lit announcement 🛛 🖨 An	nouncement views	
pe	Send to	Title	Enabled	Created	
		<no <b="" data="" to="">tisplay:</no>	2		
Create new announceme Title:					Qk
Title: Type:	Information	O 🛕 Warning		O 🕖 Alert	Qk
Title:	 Information All devices 	🔘 🛲 Selected devices	C 🏶 Selected users	O 🕖 Alert	Qk
Title: Type: Send to:	Information All devices	🔘 🛲 Selected devices		O I Alert	
Title: Type: Send to:	 Information All devices 	🔘 🛲 Selected devices		Alert	
Title: Type: Send to: Message:	 Information All devices Open r Save 	🔘 🛲 Selected devices		Alert	
Title: Type: Send to: Message: Confirmation:	 Information A All devices Open	🔘 🛲 Selected devices		Alert	
Title: Type: Send to: Message: Confirmation: Confirmation mandatory:	 Information A All devices Open	🔘 🛲 Selected devices		Alert	
Title: Type: Send to: Message: Confirmation: Confirmation mandatory: Confirmation text: Enabled:	 Information All devices Open	🔘 🛲 Selected devices		Alert	
Title: Type: Send to: Message: Confirmation: Confirmation mandatory: Confirmation text: Enabled: Enabled from:	 Information All devices Open r Save 	🔘 🛲 Selected devices		Alert	

Message layout

The message layout depends on the selected options. An example message is presented below.

Axence nVision HelpDesk - A		
	Test announcement!	
Test announcement! <u>https://w</u>	Sion eccece® w.axence.net-visit our website!	
	ок	

Editing an announcement in the message

Create new announceme	nt			×
Title:	Test announcement!			
Type:	Information	🔘 🛕 Warning	🔘 🕕 Alert	
Send to:	All devices	🔘 🛲 Selected devices 🛛 🔘	A Selected users	
Message:	🕄 Open 💣 Save 📝	Edit		
	Test announcement! https://		ି ୧	
	4			
Confirmation:				0,30/20,00 MB
Confirmation mandatory:				
Confirmation text:				
Enabled:	\checkmark			
Enabled from:	10.05.2022 🔻			
Enabled until:	09.06.2022 🔻			
			Preview <u>O</u> K	Cancel
			\$	

message text, etc.		
Image: Image		- 0 × ^ 0
	nek Dati Vitaga Zamich nu Paint godine obiekt III Zamick wystko Vitavianie Edytowanie	
	3 + + 2 + + 1 + + 2 + + 4 + + + 2 + + + 4 + + + 5 + + + 4 + + + 5 + + + 4 + + + 4 + + + 4 + + + 4 + + + 4 + + + 4 + + + 4 + + + 4 + + + 4 + + + 4 + + + 4 + + + 4 + + + 4 + + + 4 + + + 4 + + + 4 + + + 4 + + + 4 + + + 4 + + + 4 + + + 4 + + + 4 + + + 4 + + + 4 + + + 4 + + + 4 + + + 4 + + + 4 + + + 4 + + + 4 + + + 4 + + + 4 + + + 4 + + + 4 + + + 4 + + + 4 + + + 4 + + + 4 + + + 4 + + + 4 + + + 4 + + + 4 + + + 4 + + + 4 + + + 4 + + + 4 + + + 4 + + + 4 + + + 4 + + + 4 + + + 4 + + + 4 + + + 4 + + + 4 + + + 4 + + + + 4 + + + 4 + + + 4 + + + 4 + + + 4 + + + + + + + + + + + + + + + + + + + +	
	nvision.	
		1005 🔾 🚽 🕢
		100.8 (5)
When you finish editing the me	essage:	
1. Save the file		
2. Close the word processor w	vindow	
When you close the word proc	essor, the comment text will be displayed i	n the Announcement field in
	Fill in the remaining fields in the form and y	
creation!	, , , , , , , , , , , , , , , , , , ,	. ,

10.14 File distribution

File distribution with the use of Agents

Files can be distributed to workstations with an installed Agent. For more information about Agents, see the chapter Agents 116.

To distribute files:

- 1. Select the **Distribution tasks** in the main menu.
- 2. In the **Distribution tasks** window, select ^① Add. Specify the task **Name** and **Description** (optionally).



Name: Deploy Firefox 74 Description: Image: Copy files Copy files Image: Copy files Add files Image: Copy files Ame Size Tirefox Setup 74.0.msi 50,67 MB Size Size Size Size Size Size Size Size Size Size Size Size Size Size Size Size Size Size Size Size Size Size Size Size Size Size Size Size Size Size Size Size Size Size Size Size Size Size Size Size Size Size Size Size Size Size Size Size	Distribution task properties	
Files Execute Copy files Add files Amme Size Firefox Setup 74.0.msi 50,67 MB Size Size <t< th=""><th>Name: Deploy Firefox 74</th><th></th></t<>	Name: Deploy Firefox 74	
C Opy files C Add files Remove files Name Size Firefox Setup 74.0.msi S0,67 MB S0,6	Description:	
Add files Image: Size Name Size irrefox Setup 74.0.msi 50,67 MB irrefox Setup 74.0.msi 50,67 MB irrefox Setup 74.0.msi 50,67 MB	오 Files 🛛 Execute 🔺 Devices	
Name Size iirefox Setup 74.0.msi 50,67 MB Size 50,67 MB Size Size	Copy files	
irrefox Setup 74.0.msi 50,67 MB 50,67 MB 50,67 MB arget directory: inter target directory name or leave blank for use temporary	Add files 🛗 Remove files	
50,67 MB Farget directory: Enter target directory name or leave blank for use temporary	Name	Size
arget directory: inter target directory name or leave blank for use temporary	irefox Setup 74.0.msi	50,67 MB
arget directory: Enter target directory name or leave blank for use temporary		
Enter target directory name or leave blank for use temporary		
		50,67 MB
OK Oracl	arget directory:	50,67 MB
		50,67 MB

- 3. If you want to copy files, **Add** the files to be distributed. You can specify a **Destination folder**. If the field is left empty, a temporary folder will be used (C:\Windows\Temp).
- 4. If you want to run files, go to the **Execution** tab. Specify the execution folder and parameters (optionally, e.g. silent and unattended installation).
- 5. In the **Devices** tab, select **Add devices**. Use the list to add devices on which you want to run or distribute files. When the action is complete, click **OK**.

The created distribution task will be added to the list. If the destination machine is turned off, tasks will be queued and executed upon the first contact between the Agent and nVision. Progress can be checked at any time in the **Distribution tasks** window.

NV Distribution tasks				- ×
Bistribution tasl		Add Copy Propert		
Name	Progress		Created	▼ Status
In progress				
Deploy FF		10%	Today 12:00:16	3
Completed				
Kopia Kopia Kopia tesadsasdasdasd		100%	10.02.2020 15:10:08	0
Kopia Kopia tesadsasdasdasd		100%	10.02.2020 15:08:05	0
				Close

Pending tasks are also displayed in the **Agents** tab in the main nVision window.

Remote software installation with MSI package

To distribute and install an MSI package:

- 1. Select the **Distribution tasks** in the main menu.
- 2. In the Distribution tasks window, select Add. Specify the task Name and Description (optionally).
- 3. Add the MSI package to be distributed and specify the destination folder.



								3
Name: Description:		fox 74			 		 	
	Execute	A Device	s					
✓ Copy files								
Add files	Bemov	e files				Size		
Name Firefox Setup	74.0 mai					50,67 MB		
						50,67 MB		
Target director	ry:					50,67 MB		
Target director Enter target di		e or leave bla	nk for use	temporary		50,67 MB		

4. Navigate to the **Execution** tab, check the **Run program** field and fill the options as shown in the following screenshot.

nV Distribution task properties		×
Name: a Description:		
S Files Execute 🛕 Devices		
✓ Execute program		
File or command:		
msiexec		*
Start in:		
C:\		•
Parameters:		
/i Firefox-74.0-pl.msi /qn		•
Execution time:		
Immediately		
O While users are logged out		
○ After specified hour of a day 17:00		
	<u>0</u> K	<u>C</u> ancel

5. In the **Devices** tab, select **Add devices**. Use the list to add the devices on which you want to distribute and run the MSI package. Then click **OK**.

The generation of the MSI package distribution task can also be automated in the following manner:

- 1. Check the Agent(s) icon.
- 2. Right click the Agent icon, use the pop-up menu to select Agent / Install an MSI package.
- 3. Select the MSI installer file in the dialog box.
- 4. When the installer file is specified, the distribution task properties window will appear with automatically filled task parameters. Along with adding the file, the following parameters will be filled automatically:
- name,
- description,
- command,

- default parameters for silent installation (unattended by the user),
- devices on which the task is to be executed will be added automatically.

All of the described parameters can be edited.

5. To finish the wizard and perform the task, click **OK**.

Remote software uninstallation

The Agent also allows for the remote uninstallation of the software installed with use of MSI packages. During the workstation inventory, the Agent also collects information on the manner of software installation (through scanning registry entries). The option of uninstallation from the level of the nVision Console is only available for the programs installed by the Windows Installer (MSI packages).

The software uninstallation task is performed immediately, if the Agent is connected to the Axence nVision® Server. Otherwise, the task is queued and performed at the next connection.

To uninstall software remotely:

- 1. Navigate to Device details / Inventory / Program window.
- 2. Find the program to be uninstalled in the installed applications list. Select it.
- 3. Use the toolbar to select Uninstall or right click and select Uninstall.
- 4. The status in the Uninstallation progress column will change to Pending.

or

- 1. Go to the Devices / view menu, Agents / Software audit.
- 2. Find the program to be uninstalled in the detected applications list. Double-click its name to open the detected installations window.
- 3. Select the name of the machine from which the program will be uninstalled, and use the toolbar to select **Uninstall** or right click and select **Uninstall**.
- 4. The status in the Uninstallation progress column will change to Pending.

The **Uninstallation progress** column presents information on the remote uninstallation support and task status:

- Supported remote uninstallation possible,
- Unsupported remote uninstallation not possible,
- · Pending task was ordered, waiting for Agent connection,
- Task in progress task is currently executed,
- Error an error occurred (additional message is displayed in a "bubble" by the mouse cursor).

The task can be cancelled if the Agent has not connected with the nVision Server yet. To cancel the task, make sure the status in **Uninstallation progress** is displayed as **Pending**, right click and select **Abort uninstallation** in the pop-up menu.

File distribution with the use of WMI

nVision allows for the remote distribution of files to Windows machines. This is performed with use of WMI service, which requires the appropriate configuration of login credentials in device properties. Additionally, WMI service must be enabled on all remote machines.

To distribute files:

- 1. Right-click the Agent and select Actions / Distribute file with WMI....
- 2. Select the file to be distributed.
- 3. The selected file can be an executable file (e.g. installation file). It is possible to run such a file after it has been copied to a remote machine. This mechanism can be used to distribute programs or updates (fixes). Specify the runtime settings in the **Parameters** field and enable the **Run file when copied** option.
- 4. Select All to distribute a file to all machines or Selected to choose a specific group.
- 5. Click the **Install** button. A window will appear, displaying the distribution progress and allowing its successful completion to be checked.

10.15 Windows processes

The HelpDesk module displays active processes on the machines with installed Agents within the network.

To view the active processes on a selected host, navigate to the **Host info / Windows / Processes** window.

DESKTOP-NO(Axence nVision Agent Connected Remote	access 🔻	HTTP 🖲		Device status ——— WARNING
				Last respo	nse: 18.03.2020 13:29:07
GENERAL	System information Windows services Windows Event Log Processes	Remote command ex	ecution		Configure credential
PERFORMANCE	Start new process			Filter	λ
TEN ONMANDE	PID Process name	User	CPU 62%	Memory	Started
HARDWARE	7076 ApplicationFrameHost.exe	Mikuz	0%	29 644 K	30.03.2020 09:25:1
	2828 AxDBSrvr.exe	USŁUGA SIECIOWA	0%	9 692 K	30.03.2020 09:23:4
SOFTWARE	2808 AxDBSrvrA.exe	SYSTEM	0%	23 564 K	30.03.2020 09:23:4
	8624 Axence.nVision.Web.exe	SYSTEM	0%	159 400 K	30.03.2020 09:26:1
ASSETS	3660 AxenceSvcGuard.exe	SYSTEM	0%	856 K	30.03.2020 09:23:5
	5352 browser_broker.exe	Mikuz	0%	8 252 K	31.03.2020 11:54:0
FILES	2756 conhost.exe	USŁUGA SIECIOWA	0%	6 728 K	30.03.2020 09:23:4
	532 csrss.exe	SYSTEM	0%	4 960 K	30.03.2020 09:23:4
SNMP	7464 csrss.exe	SYSTEM	0%	4 092 K	30.03.2020 11:02:1
	452 csrss.exe	SYSTEM	0%	4 872 K	30.03.2020 09:23:4
WINDOWS	7276 ctfmon.exe	Mikuz	0%	16 012 K	30.03.2020 11:02:2
	7476 dllhost.exe	Mikuz	0%	12 836 K	30.03.2020 09:25:14
EVENTS	5276 dllhost.exe	Mikuz	0%	7 028 K	30.03.2020 09:24:4
	5808 dwm.exe	DWM-3	0%	30 920 K	30.03.2020 11:02:1
	964 dwm.exe	DWM-1	1%	153 696 K	30.03.2020 09:23:4
	5464 explorer.exe	Mikuz	0%	116 052 K	30.03.2020 09:24:1
	11224 firefox.exe	Mikuz	0%	164 100 K	31.03.2020 11:54:2
	11784 firefox.exe	Mikuz	0%	70 508 K	31.03.2020 11:54:3
	6624 firefox.exe	Mikuz	0%	64 036 K	31.03.2020 11:54:29
	7504 firefox.exe	Mikuz	0%	38 036 K	31.03.2020 11:55:39
	7784 firefox.exe	Mikuz	0%	328 616 K	31.03.2020 11:54:21

The process view also enables to stop the selected process, for example when it is not responding. To force the termination of a process, right-click on it and select **Terminate process**. You can also **close the whole process tree** by selecting the appropriate option from the context menu.

10.16 Remote command execution

When using the Agent within the HelpDesk module, it is possible to use the **remote command execution** feature (similar to Windows system command line).

Perform the following steps:

- Find the icon of the machine with the installed Axence nVision® Agent. It is also possible to select several Agent icons – the remote command execution windows with tabs for all selected machines will open.
- 2. Select the icon of the computer with the Agent, right click it and select the **Web access / Remote command execution** option from the context menu.

The **Remote command execution** window can also be opened from the **Host info / Windows / Remote command execution** window.

- 3. A remote command execution window will open with the **Command** field where the required commands should be entered. To execute the command, click the **Execution** button or press **Enter**. When the remote command execution window is opened, a folder within which the commands will be executed and the result of *whoami* command (credentials on which command execution is based) are also displayed.
- It is possible to execute commands on multiple hosts at the same time.

	HelpDesk module	487	
	-		
Remote command execution			×

C DESKTOP-N0QNHI1, 192.168.0.108 ×	
[31.03.2020 11:56:13] C:\Windows\TEMP> whoami zarządzanie nt\system	^
	~
ENTER - execute the command on all open tabs, ESC - stop the command.	
Enter the command	•

Examples of commands:

Command	Action
systeminfo	system overview, e.g. whether virtualization is working
ipconfig /all	network interface setup, including DNS server address
netsh wlan show all	wireless network setup, including currently detectable wireless networks
netstat -abfo	list of ports used by specific processes for listening / connecting
tracert <ip_nvision></ip_nvision>	connection route between nVision Agent and nVision Server
query user	list of sessions for users logged in on the machine
tasklist /v	list of processes and sessions used by the processes, together with authorizations
taskkill /pid <pid></pid>	termination of the selected process
tasklist /svc	list of services active on the machine
sc qc <service></service>	detailed information on the selected service
chkdsk c: /f /r /b	checking and repair of data on C:

Command	Action
dir c:\users\ <user>\downloads /a /s</user>	list of downloaded files in the selected user's folder

10.17 Remote access

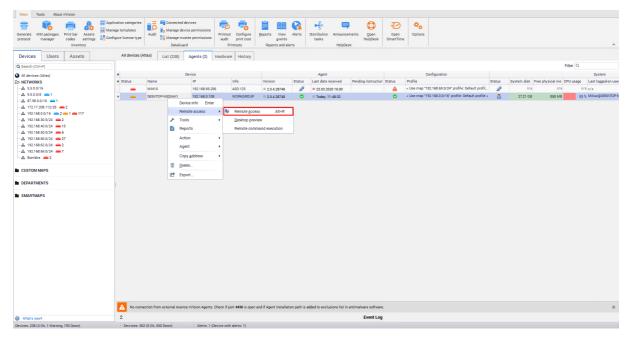
Requirements

The server, i.e. the central nVision program, must run on a static IP address.

Remote access tunneling in nVision

nVision listens on new TCP port 4436. During the installation, this port is configured only for Windows Firewall (to learn more, go to the Ports 23 topic).

The Agent establishes a connection with nVision – and the connection is maintained and used for communication. Therefore, remote access is available even if nVision cannot establish a direct connection to the Agent (e.g. the machine with the Agent is behind NAT). Remote access tunneling also works in nVision WebAccess.



Remote access options

In order to connect to the device remotely, right-click the device and select **Remote access** from the context menu. Then, select one of the **Access modes** in the remote access window:

Option	Description
Concurrent access (default)	Both the user and the remotely connected administrator can perform actions on the device.
View only	View user's window without the possibility of interfering with the user's device

Option	Description
Block user mouse and	Remotely connected administrator can perform actions on the device.
keyboard	User's mouse and keyboard are locked.

File manager

During the remote access session, it is possible use the file manager to transfer and copy data between workstation in a convenient manner.

10.18 End-user remote access

nVision 11.6 introduced the possibility of configuring remote user access to his computer. To configure this mechanism, follow the procedure described in this chapter.

- 1. On the edge router of the corporate network (with a public IP address), you should configure the redirection of incoming connections on the TCP port 4436 to the nVision server address in the local network (port-forwarding).
- 2. In the nVision console, enable "Additional remote access to own computer" in the "Permissions \ HelpDesk" tab in the user information window:

Vser: Intel COmpute Stick	_ = ×
INTEL COMPUTE STICK Account: ADMIN@INTEL-CS Role: USER	User logged on: n/a Status: Waiting for data
Image: Serie Console State Image: Serie Conse Image: Ser	Status: Waiting for data

- 3. Indicate the computer to which the user can connect in the "Permissions \ HelpDesk" tab.
- 4. If the user, on the company computer with the Agent, works under a local Windows account, set the nVision account password in the "General" tab in the user information window:

N User: Intel COmpute Stick					_ = ×
Account: ADMIN@INTEL-CS			Create a	nnouncement 🔻	User logged on: N/a Status: Waiting for data
Lini GENERAL	USER INFO AND STATUS	s /	ROLE AND PERMISSIO	ONS Change permissi	ACTIVITY PREVIEW
III ACTIVITY	User name:	Admin@Intel-CS	Role:	User	 Application:
SCREENSHOTS		Intel COmpute Stick	Job title:		
🚴 ASSETS	E-mail address: Account enabled:		SmartTime: Ticket system:		
SOFTWARE	Password:	Change	Chat:	No access	
EVENTS		19.04.2018 17:00:14	WebAccess:	No	
J DATAGUARD	Last login: Phones:	18.02.2020 15:26:04			
A BLOCKADES					

- The value of the "User" field is the login for the remote connection.
- In the case of domain accounts, the user will establish a connection using his domain credentials, e.g. name@domain.local + domain password

User-side actions:

When running the nVision installer, select "Install only Axence nVision remote user access" next to the installation components selection step:

Setup - Axence nVision 11.6.1.28843 —		×
Select Components Which components should be installed?		nV
Select the components you want to install; clear the components you do n install. Click Next when you are ready to continue.	not want t	0
O Install Axence nVision Server with Management Console		
O Install Axence nVision Management Console only		
Install Axence nVision User Remote Access only		
< Back Next >	Car	ncel

After starting, please provide your login details:

- Address and Port: Public IP address of the corporate router that has been configured with port forwarding
- Login: user account name in Axence nVision console

• Password: user account password in Axence nVision console

After remote access is established, you must enter your computer logon credentials.

Part View of the second second

11 SmartTime module

11.1 Introduction

11.1.1 General information

SmartTime is a module that has been introduced in nVision 11. It allows users to view their activity in applications and superiors to verify the activities of their subordinates. The SmartTime module uses the nVision Agent to collect data on user activity in applications and displays them in a user-friendly manner in the web browser window.

The main features of the module are:

- View of activity data for employees and teams,
- Detailed list of visited web pages and used applications,
- Reports for managers information about users who have not reached the preset productivity values,
- List of company employees' contacts.

Requirements for the collection of user activity

In order to collect user activity information, you **have to install the nVision Agent** on the remote device and open the TCP 4436 port on the computer running nVision. For more information, see the chapter Requirements and configuration.

Please note, that all the communication between Agents and nVision requires authorization and no data may be communicated if the Agents and nVision are properly configured.

11.1.2 Trial version

SmartTime is available in the trial version.

If the license covers the **Users** module, the **SmartTime** module will be activated automatically after downloading the nVision upgrade to version 11.

In the absence of the **Users** module, **SmartTime** will need to be activated manually in the nVision console by the administrator. When activating the module, the administrator will be asked for consent to enable the collection of user activity data.

When activating the **SmartTime** module **after 1 November 2019**, the test period will be available for **30** days.

After the activation of the trial license of SmartTime, a notification bar with the remaining time will be displayed in nVision.

11.1.3 Getting started

After the SmartTime module is activated in nVision, the administrator should take a few steps to ensure the desired and efficient operation of the system.

Listed below are the first steps to be carried out (in nVision):

- Review the current hierarchy of users and assign the relevant superiors/supervisors/managers, if required (<u>Hierarchy and superiors</u> 502),

- Assign access rights to the module for users (User roles 501),

- Define the user groups and designate group managers to have access to the activity data for the members of their groups (Groups and managers 502),

- If necessary, import data from nVision – if you want to have access to historical data in SmartTime (Importing data from nVision 497).

11.2 Module configuration

11.2.1 Installation

The SmartTime module is available from version 11 of Axence nVision. In order to collect user activity information, you **have to install the nVision Agent** on the remote device.

Access to the SmartTime module can be modified by the administrator at any time.

By going to the main options of the nVision program and then to the **Service configuration** tab, you can enable or disable the SmartTime module:

nv Opt	tions				×		
e.	GENERAL	SERVICE CONFIGURATION Configure the status and parameter	r of convince				
٩	MONITORING	WebAccess Console					
ار	ACTIONS	Service status: Port number.	8080 🗘				
R	SERVICE CONFIGURATION	HelpDesk & SmartTime HelpDesk service status:	_				
ື	MAINTENANCE	SmartTime service status:					
×)	BLOCKADE MESSAGES	Port number. Encryption:	8081 💠 (None) 👻				
2 _{III}	USER ACTIVITY	URL:	http://localhost:8081				
=	INVENTORY	API Server Service status:					
0	HELPDESK	Port number.	8082 🛟				
				<u>O</u> k	Cancel		
				<u></u>			

By default, the SmartTime module is automatically enabled after upgrading the software. Users also have access to the module and their data. To disable access to the data or module, select users on the list, select **Properties** in the context menu, and then navigate to the **Permissions / SmartTime** tab and modify the appropriate item:

w User: Mikuz				_ = ×
Account: MIKU@WIN10 Ro	ole: ADMINISTRATOR		Create announcement *	User logged on: n/a Status: Waiting for data
	ACCESS TO MODULES AND FEATURES			
IIII ACTIVITY	Console Network Inventory	오 Users 오 DataGuard 오 HelpDesk 🕻	SmartTime	
SCREENSHOTS	Smart Time module management	V		
ASSETS	Monitoring settings management			
SOFTWARE	Section in user settings	_		
EVENTS	User role (O Administrator		
J DATAGUARD		User Can access the user activity data of direct report users that belong to groups which this user may		
A BLOCKADES		No access		
SETTINGS	Block access to activity of other users Can be used only for SmartTime users	×		
 SCREENSHOTS ASSETS SOFTWARE EVENTS DATAGUARD BLOCKADES SETTINGS 	SmartTime module management Access to settings Monitoring settings management Section in user settings User role ①	Administrator User Can access the user activity data of direct repo users that belong to groups which this user ma No access	Direct reports Group members	

11.2.2 Importing and deleting data

Data collected by the SmartTime module are subject to full control by the administrator. They are sent and added every 20 minutes and upon disabling the system on which the agent is installed.

If the Users module was previously used, you can import the user activity data to the SmartTime module.

To do this, navigate to the **Tools** tab and select **Import activity data from nVision** in the SmartTime section.

The program will require you to specify the time from which the activity data are to be imported:

					– 8 ×
Add a Add a Add a Show duplicate Oreate a coun for devices Users and devices	Image: Second		Import user activity		
	Avence nVision 11				
G All users	Import user activity data from nVision to SmartTime				
A Hierarchy					
Concurs Annex offician Time range with data available for import. Status Concurs 24.03.2020 to 30.002000 (today)					
	Import data: from the last 7 days				
- 👸 marketing 2 🍓 axence.local	All imported user activity data will replace any previous data that already existed in the SmartTime module.				
) 🎒 Built-in	The import is carried out in two steps:				
E SMART GROUPS.	 The first step is performed by the Avence milision service. It may take several dozen minutes, depending on the number of Agents. Chat and HelpDesk will not be available in your organization at this time. 				
2. The second step is performed by the SmartTime service. It may take several hours, depending on the size of the database. It does not affect the operation of other Asence vificion services. Chat and HelpDea will be available.					
	Therefore, we recommend carrying out the process outside business hours.				
	Import Cancel				

Note! All imported user activity data will replace the data collected by SmartTime over the selected period.

To delete the activity data collected in the SmartTime module, navigate to the main options of nVision and then to the **Maintenance** tab:

nv Options	
	MAINTENANCE
MONITORING	Clean-up old data from database
	Remove Agents data older than 999 🗘 days
R SERVICE CONFIGURATIO	Remove monitoring history older than 90 days
MAINTENANCE	Image: Constraint of the second se
BLOCKADE MESSAGES	Image: Weight of the system Image: Weight of the
	Delete user activity from SmartTime Other ☑ Compact Agent timeline data after 30
	Last purge: Today 09:26:48 Database size: 583 MB
	Axence nVision 11
D HELPDESK	Delete user activity data from SmartTime
	, ,
	Delete data older than: 29.02.2020
	Delete all user activity data from SmartTime
	Delete Cancel

11.2.3 Starting SmartTime

You can access the SmartTime module in a few ways.

1. Access with the Agent icon

When you click the Agent icon, you can select **Your activity**. This will open the browser and start the SmartTime module.

2. Access from the HelpDesk module

To open the SmartTime module, click the appropriate icon at the top of the HelpDesk screen.

3. Access from the nVision console

To start SmartTime from the console, simply click **Open SmartTime** on the main toolbar:

W Axence	nVision 11															_ & ×
Main	Tools Abou	t nVision														
Generate protocol	MSI packages manager			Manage templates	Audit Connected devices	Printout audit	Configure print cost	Beports	View gvents	Alerts	Distribution tasks	Announcements	Open HelpDesk	Open SmartTime	Options	
		Invent	ory		DataGuard	Pr	ntouts	Repo	rts and ale	erts		HelpDesk				~

11.2.4 Productivity levels

Applications in the SmartTime module are grouped into the following three main productivity levels:

- Productive applications,
- Neutral applications,
- Unproductive applications.

For defining the productivity of applications, refer to chapter Applications 513.

Defining the productivity of applications does **not** apply to its category – these are two independent settings.

11.2.5 Setting the productivity and category

When in the Settings tab in the web interface, you can configure the SmartTime module.

The configuration in the **Productivity** tab allows you to define the following parameters:

- **Productivity threshold** (%) the required daily productivity threshold. If specific employees do not reach the productivity threshold on a given day, as configured in this field, they will be added to the report that can be sent to their superiors. This option is set to 40% by default.
- **Unproductivity limit** (in minutes) specifies the allowed time spent by users on unproductive applications. If employees exceed the time spent on unproductive applications on a given day, as configured in this field, they will be added to the report that can be sent to their superior. Such users will also be highlighted in the application. This option is set to 60 minutes by default.
- Send the daily alarm specifies whether or not the daily alarm is to be sent to the superiors or managers. The alarm will be sent to each user. The email will include information about the employees who have not reached the required efficiency threshold or exceeded the allowed unproductive time on the previous day. Sending alarms is enabled by default.

The email is sent on the next day at 7 a.m.

• **Delete older than x days** – specifies the period for which the employee productivity data are stored. Clearing takes place once a day at midnight. This function is enabled and set to 365 days by default.

Each of the above-mentioned options may be **enabled** or **disabled**. To enable or disable a specific option, use the toggle next to each of the items.

=	SmartTime		Hello, Administrator 🕛
ևե	Activity	Settings	
	Applications	-	
121	Group	Productivity Category	
2	Contacts	Productivity threshold 40 %	
· · · · ·	Settings	Daily productivity threshold required. If the employee does not reach the threshold value on a given day, they will be listed in the daily alarm.	
		Unproductivity limit 60 min Acceptable daily unproductive time. When an employee exceeds it, they will be lased in the daily alarm and highlighted in the application.	C
		Send the daily alarm Superiors will receive an email at 700. The e-mail will cortain information about employee who did not reach the required efficiency threshold or exceeded the unproductive time allowed on the previous day.	
		Deleting data older than 365 days After this penol, employee productivity data will be deress. Deleting data takes place once a day after midruger.	
		Help FAQ Privacy policy	English 🔺 🛛 Copyright © 2020 Axence sp. z o. o. sp. k

The Categories tab allows you to define the categories to which the applications can be allocated.

≡	🖅 SmartTime	e	Hello, Administrator	ሳ
ш		Settings		
		Q-		
120		Productivity Category		
8		List of categories to which applications can be assigned		
3Ê	Settings	La co Langure si or mino regolizatio la inte assigneu Add a category		
		Produkcja E-mail		
		Spoleczności		
		Biuro Newsy		
		Rozywka		
		Grafika		
		Marketing		
		Hélp FAQ Privacy policy English 🔺	Copyright © 2020 Axence sp. z o. o). sp. k

To add a category, click Add category. Then enter the category name and confirm your selection.

For adding applications to categories, refer to chapter <u>Applications</u> 513. By creating categories, you have the ability of the additional grouping of applications:

PRODUCTIVE		Show exceptions	NEUTRAL		UNPRODUCTIVE	
Axence nVision 11	.0 ★	11h 58m 12s	outlook.office365.com	1h 12m 21s	o reddit.com	14m 19
Microsoft Edge		1h 42m 58s	 youtube.com 	1h 09m 16s	linkedin.com	0m 01
Eksplorator Windo	ws	1h 40m 34s	tvn24.pl	46m 43s		
Firefox		53m 34s	e protection.office.com	42m 44s		
Google Chrome		51m 42s	pepper.pl	33m 22s		
			· · · · ·			
TEGORY			· · · · ·			
EGORY	88%		• • • • • •	24h 22m		
TEGORY No category	88%		• • • • •	24h 22m 1h 21m		
TEGORY No category Bluro			• • • • •			
No category Biuro Rozrywka Społeczności	496		• • • • •	1h 21m		

To change a name or delete a category, move the cursor over the selected category and select the appropriate icon.

Note! After the item is removed from the list, all applications assigned to this category will no longer have an assigned category.

11.3 Users and their permissions

11.3.1 User roles

Users may access the SmartTime module by using one of the following roles:

Administrator:

- This option is **only** available to the user that has access to the management of users and the modification of the Users module functionalities,
- The Administrator in the SmartTime module has access to the modification of settings for this module on the website,
- The Administrator has access to the activity data for all users.

User:

- Users have access to the SmartTime module and can view data on their activity,
- If users are group managers and have access to data enabled, they can view the activity data for the group members (see the next section for more information),
- If users are superiors, they have access to their subordinate's activity data.

No access:

- People with this level of rights are not able to log in to SmartTime,
- They cannot see the navigation buttons in any part of the program,
- They are still shown in the list of SmartTime users the activity data for these people can be viewed by their superiors and by the administrator.

NV Use	r: Mikuz			_ = ×
	MIKUZ Account: MIKU@WIN10	lole: ADMINISTRATOR	Create announcement	User logged on: n/a Status: Waiting for data
2 _{iii}	GENERAL	ACCESS TO MODULES AND FEATURES		
dd	ACTIVITY	Console Network Inventory Users DataGuard HelpDesk	SmartTime	
Ø	SCREENSHOTS	SmartTime module management		
å	ASSETS	Monitoring settings management		
	SOFTWARE	Section in user settings		
	EVENTS	User role 1 O Administrator		
U	DATAGUARD	Over Can access the user activity data of direct reports users that belong to groups which this user manage	Direct reports Group members s and ges.	
A	BLOCKADES	O No access		
٥	SETTINGS	Block access to activity of other users Can be used only for SmartTime users		
28	PERMISSIONS			

These settings are located in User information / Permissions / SmartTime:

11.3.2 Managers and superiors

Group manager

The manager is a person that may have access to the activity data for all members of their groups. These persons may or may not be members of the groups managed by them.

To assign the group manager rights to a user, navigate to the **Group information** screen and select the appropriate person from the drop-down list in the **Manager** field.

By default, access to the activity data of other group members is **disabled** and the manager **does not have access to them**. To enable access to the data, click the toggle shown in the screenshot below:

┍v Group: Programmers					_		×
Programmers Manager: Administrator							
GENERAL	INFORMATION						
DATAGUARD	Name:	Programmers	Manager.	Administrator		•	1
BLOCKADES	Created: 3	30.03.2020 11:19:38	Access to activity:	~			
SETTINGS	Type: 7 Domain: -	Axence nVision					
	Users and groups						
	Users in the group:		Belongs to groups	Subgroups			
	<no data<="" td=""><td>a to display></td><td>📩 IT</td><td></td><td></td><td></td><td></td></no>	a to display>	📩 IT				
		Add Remove		A	dd Re	emov	e

To check whether a user is a manager of any group, go to the **User information** screen for this user. The information will be displayed in the **Accounts and groups** section after clicking the appropriate option.

Note! When importing groups with assigned managers from Active Directory, it is not possible to modify this person in the nVision console (synchronized with the corresponding "managed to" field in Active Directory). Any changes should be made in the Active Directory.

Superiors and subordinates

These settings are related to the hierarchy of users in nVision. This functionality allows the administrator to define the relationships among employees. The **supervisor** field is assigned to each user, and it may be left blank or contain the user name. For users synchronized with Active Directory, the value in this field is a read-only value, and it is read from the field with the same name.

Axence nVision 11						
Main Tools About nVision						
Generate protocol MSI packages manager Codes Invento	Assets Configure license type	Manage device permissions	Printout Configure Be	Poorts View Alerts events Reports and alerts	Distribution tasks HelpDesk	
		batabala	- Intoito	Theporto and dierto		
Devices Users Assets	s Hierarchy					
Q Search (Ctrl+F)	Filter Q					
All users Hierarchy BGROUPS Axence nVision	NY .	strator likuz Testowy user miko				
> 🏭 axence.local						
> 船 Built-in	La GENERAL					
SMART GROUPS	GENERAL	USER INFO AND STATUS		ROLE AND PERMISSIONS Change permissions		
Testowa (2)		User name: Mi	kuz	Bole [.]	Administrator 🔹	
	SCREENSHOTS	Full name:		Job title:		
	🚴 ASSETS	Account enabled:	ikolaj.matuszny@axence.r	SmartTime: Ticket system:		
	SOFTWARE	Password: Ch	ange	Chat:	Full access	
	EVENTS	Created: 02.	.07.2019 14:17:40	WebAccess:	Yes	
		Last login: 23	.03.2020 10:22:12			
	DATAGUARD	Phones: 📨				
	A BLOCKADES	Ħ				
	SETTINGS					
		Accounts and groups Account type: nV	icion			
				Belongs to groups (4	I) Is manager of (0)	
		Supervisor. Ad	Iministrator 👻	🔒 marketing		
		Direct reports: 1	Show	Regrammers		
What's new?		Linked accounts:				
Devices: 238 (5 Ok, 2 Warning, 191 Down)		Miku@DESKTOP-39LPD00				

To manage the hierarchy of users, select **Hierarchy** in the **Users** tab. In this list, you can drag and drop the users to define subordinates and superiors for them.

Alternatively, in order to define a superior for a specific user, navigate to the **User information** screen for this user and select the superior for the person from the drop-down list in the **Accounts and groups** section.

In the SmartTime module, the **superiors** will be able to verify the activity of **their subordinates**, even if access to the activity data in the group is disabled.

11.3.3 Blocking access to data

One of the user permissions setting items is to **Block access to specific activities**. By enabling this setting, the users (regardless of whether they are managers or superiors) will see only **their own data**.

🛛 User: Mikuz		_ = ×
Account: MIKUZ	U@WIN10 Role: ADMINISTRATOR	Create announcement + User logged on: I/a Status: Waiting for data
LIII GENERAL	ACCESS TO MODULES AND FEATURES	n in the second s
SCREENSHOTS	SmartTime module management	
🚴 ASSETS	Monitoring settings management Section in user settings	
SOFTWARE	Section in user settings	
EVENTS	User role () Administrator	
U DATAGUARD	Otect to Can access the user activity data of direct reports and users that belong to groups which this user manages.	reports Group members
A BLOCKADES	O No access	
SETTINGS	Block access to activity of other users Can be used only for SmartTime users	

These settings are located in User information / Permissions / SmartTime:

By default, the newly added users will receive user access. To modify the default settings, go to the **Atlas information / Default permissions** and modify options in the **SmartTime** line:

Axence nVision 11		
Monitoring properties: Atlas		
DATAGUARD BLOCKADES SETTINGS	DEFAULT PERMISSION Permissions automaticall Administrator role	VS y applied to all new users that are imported from Active Directory or created manually. Granted automatically for users that belong to the 'Domain Administrators' group Not granted automatically
DEFAULT PERMISSIONS	SmartTime	 User Can access the user activity data of direct reports and users that belong to groups which this user manages. No access
	Chat	Full access Technical support only Technical support only Technical support only No access
	Ticket system	User
	WebAccess console WWW access	No access
		<u>Q</u> K <u>C</u> ancel

11.3.4 Data available to users

Depending on the level of rights of the logged in person, the items related to the activity visible for that user will be displayed. These settings can be modified in **nVision** by going to the **User information**, and then to the **Permissions / SmartTime** tab:

Account: MIKU@WIN10	D Role: ADMINISTRATOR		Create announcement *	n/a Status: Waiting for data
GENERAL	ACCESS TO MODULES AND FEATURES			Status: Waiting for data
ACTIVITY	Console Network Inventory	🛇 Users 🛇 DataGuard 🛇 HelpDesk 🔇	SmartTime	
SCREENSHOTS	SmartTime module management			
ASSETS	Access to settings Monitoring settings management			
SOFTWARE	Section in user settings			
EVENTS	User role 🚺	O Administrator		
DATAGUARD		Oser Can access the user activity data of direct repor users that belong to groups which this user man	Direct reports Group members rts and nages.	
BLOCKADES		No access		
SETTINGS	Block access to activity of other users Can be used only for SmartTime users	×		
PERMISSIONS				

The access rights are as follows:

User with no subordinates

A person with the user role and no subordinates will only have access to their own activity data.

· User with subordinates

A person with the **user** role and subordinates will have access to the activity data for each subordinate (also each person that is lower than their subordinates in the hierarchy) and to their own activity.

• User that is a group manager and has access to data of this group disabled

A person with these rights has access to their data. If they have any subordinates, their activity will be displayed too.

• User that is a group manager and has access to data of this group enabled

A person with these rights has access to their own data as well as the data of the entire group and the individual members. Such users can also edit the group productivity exceptions. If they edit productivity exceptions for such a group, they see the global list of applications, their productivities and categories, however they cannot edit these items.

Administrator

A person with the administrator rights has access to the activity data for each user and each group. The administrator has full access to all parts of the system, sees the global list of applications and can edit their productivities and categories. The administrator can also edit the productivity exceptions for all groups.

By going to the **User information** and then to the **Permissions / SmartTime** tab, you can enable **blocking access to the activity of other users**. A person with the lock enabled will only have access **to their own activity data**.

11.4 Groups

11.4.1 Group information

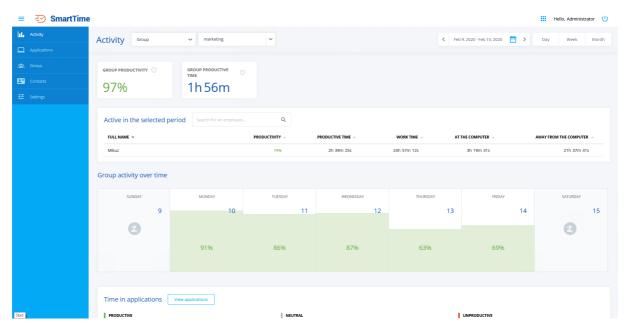
After selecting an item from the list of groups, you can go to **detailed** information. The following tabs are available there:

- Employees a list of employees belonging to the group or subgroup (see the "relationship within the group" column),
- Belongs to information about the parent group that the currently viewed group belongs to (this item is not displayed if the selected group does not belong to any other group),
- Subgroups information about the subgroups of the currently viewed group,
- Application exceptions provides information on whether or not any exceptions are defined for this group. The list of exceptions only includes **the applications in which the members of the selected group were active**. This tab also allows you to add exceptions for these applications.

= 🖅 SmartTime					Hello, Administrator
Lil. Activity	Group Search for a group Q				
Applications					
🤽 Group	GROUP NAME	EMPLOYEES	PRODUCTIVITY (LAST 7 DAYS)	MANAGER	ACCESS TO ACTIVITY
Contacts	Access-Denied Assistance Users	0	0%	None	
글는 Settings	Access Control Assistance Operators	0	0%	None	
	Account Operators	0	0%	None	
	Administration	5	0%	None	
	Administrators	2	0%	None	
	ADSyncAdmins	2	0%	None	
	ADSyncBrowse	0	0%	None	
	ADSyncOperators ADSyncPasswordSet	0	0%	None	
	Allowed RODC Password Replication Group	0	0%	None	
					Page 1 of 8 < > Show 10 -
	Help FAQ Privacy policy				English 🔺 🛛 Copyright © 2020 Axence sp. z o. o. sp.

After clicking the **View productivity** button, the application will take you to the page where the information on the productivity of the group as a whole and of individual members is displayed.

The **View applications** button displays the application settings for the selected group. The list will show only the applications in which the members of the selected group were active.



If the group manager does not have access to the data of this group enabled, the appropriate notification will be displayed (see the screenshot above).

11.4.2 Special markings

Special markings in the SmartTime module are used to allow for the better interpretation of activity data. These include:

Asterisk

An asterisk will be displayed on the user activity screen for the selected user if this user belongs to a group in which the application is added to exceptions:

Applications	9/%	1 N 56M	Axence nVisi	on			
🤽 Group							
Contacts	WORK TIME	AT THE COMPUTER	AWAY FROM THE COMPL	JTER			
] 子井 Settings	8h57m	2h00m	6h 57m				
	Activity over time						
	SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
	16	17	18	19	20	21	22
	8			8	8	8	8
						Neut	tral 📕 Productive 📕 Unproductive
	Time in applications	View applications					
	PRODUCTIVE	Show exceptions	NEUTRAL			UNPRODUCTIVE	
	Axence nVision 11.0	★ 1h 08m 55s	youtube.com			No data	
	Firefox Eksplorator Windows	Exception for the group marketing	Paint filmweb.pl		0m 44s 0m 41s		
	ox axence.net	3m 015	-	nagement Console	0m 32s		
	G google.com	1m 07s	addons.mozil	la.org	0m 18s		

Triangle

A triangle will be displayed on the group activity screen or after clicking the **View applications** button in the information screen for the selected group. The symbol appears when at least one of the group members has an exception for the selected application set in another group (which means that the user's time spent in this application is treated as productive). Move the cursor over the symbol to see additional information.

SmartTime					
14. mm	Group	-			
2 mainten					
a	Tapagandan	Applications - Programmers	Search for an application	٩, <	Any period 📩 >
1		All V All	Application type All	✓ Time of use Over 5min ✓	Only new 30 23 5
1.000	48004 PRODUCTION	NAME/ADDRESS	EXCEPTION	TIME OF USE	CATEGORY
	-	192.168.69.206:8081	☆	18m 51s	No category
		🔥 aad.portal.azure.com	☆	15m 36s	No category
	Amplepent (1)	admin.microsoft.com	☆	6m 39s	No category
		allegro.pl	☆	8m 51s	No category
	Employees in t	Axence nVision 11.0	☆	37h 35m 00s 🛕	No category
	P.0. NOT -	ox axence.net	☆	18m 56s Members	s with an exception from other
	-	Seach.fandom.com	☆	18m 54s groups	No category 37h 35m 00s
		😵 Brave Browser	☆		pup members ^{category}
		n bulldogjob.pl	☆	10m 50s Axence	nVision 11.0 0m 00s Total: 37h 35m 00s
		cdn.axence.net	☆	8m 36s	No category

11.5 Application settings

11.5.1 General information

The Applications screen provides information concerning all applications detected on all devices with the Agent within the network. An application can be both a program run on a computer and a web site visited by the user. Only the applications that were used by users are displayed. If any program has a desktop (e.g. winword.exe) and web (Word online – www.office.com) version, it is always treated as two different applications.

Data collected by the SmartTime module are subject to full control by the administrator. They are sent and added every 20 minutes and upon disabling the system on which the Agent is installed.

Applications in the SmartTime module are grouped by the following three main productivity levels:

- Productive applications,
- Neutral applications,
- Unproductive applications.

The above-mentioned productivity levels cannot be added, edited or deleted.

To make it easier to review the list of applications, the following filters have been developed:

- Calendar allows the selection of the time period in which the applications were detected,
- Productivity allows the application productivity to be defined,
- Category allows the application category to be defined,
- Application type allows the search to be narrowed down to desktop applications or web pages only,
- Usage time specifies the time of application usage,
- New only the applications that appeared in the system in the given time period are displayed.

The SmartTime module has a database of the most popular applications and is able to classify them as productive or unproductive. If an application not included in the database is detected, it is classified as neutral.

In order for the SmartTime module to utilize its full potential, the administrator should **regularly update** the list of applications in the system. To facilitate this, the **New only** option is available to show the new applications that appeared in the system **in the selected time period**.

A	Al v Dartes v Do			In the
				1. 1.
- New Country -	100.01		CATEGORY	ACTOR
C 8 10.100.00.000	account.axence.net	214	No-category	
🗆 🛔 🗛 sel porte asonom	Web page	300	Neconagery	•
C S scortserant	Show the metadata	~ m	No category	•
	Application: 💿 🛛 Neutral	-	No unigry	•
a shqeraf	Productive Unproductive	215	No category	•
C Kana Kana Kana Ta	Category: Select a category V	-	to-unigry.	•
C Kenner Hitser 11.3	Exceptions: Select a group	-	No category	•
		5%	Newsy	•
C Q Bachledonian	Cancel	345	No canality	•
C C Base Braner		an 14	Necodegry	•
				App 1 1/1 () 31

11.5.2 Application identification

Applications in the SmartTime module are divided into two types:

- Windows programs;
- websites.

The SmartTime module treats Windows programs and websites as equal applications in terms of user activity. If any program has a desktop (e.g. winword.exe) and web (www.office.com) version, it is always treated as two different applications.

Windows applications

Each "Windows program" application has the following properties:

- Application detection date (date of the first time quantum of an activity connected with this application),
- Application name (friendly name displayed as the application title in the interface),
- File name (OriginalFileName),
- Product name (ProductName),
- Supplier name (Company).

The unique determinant of such an application is the combination of the OriginalFileName, ProductName and Company fields. This means that two programs with the same name of the executable file may be detected as two applications (if they differ, for example, in the "Company" field).

Websites

Each "website" application has the following properties:

- Date of application detection (date of the first activity connected with this application),
- Application name (friendly name displayed as the application title in the interface),
- · Address (DNS name without "www" and without port or the IP address itself),
- Website titles (set of text values).

The unique determinant of such an application is the address only. This means that if any website uses different subdomains, each of them will be detected as a separate application. The information concerning protocol is automatically removed from the address.

Each user activity is matched to the application using the described unique determinant. If such an application does not yet exist in the system, a new one is automatically created.

The friendly application name is automatically retrieved from the executable file (for Windows programs) or from the most common site title (for websites).

Metadata

Metadata can be viewed by going to the **Applications** screen in the SmartTime module web interface. After clicking the gear icon next to the selected application, click **Show metadata**. The information concerning the application name, manufacturer and date of detection will be displayed:

11-14	Applications				1 Augustud
	Applications terms a second				< stypeted
	and the second s				
	A 4 A	w Al w Darbeit	× 0.000		16.16.1
	New Provide -	Axence nVision 11.0		Contractions*	4708
		Desktop application	214	No category	
		File: nvision.exe Product: axence nvision 11.0	-	Necosingery	
	C C Secondaria	Company: axence inc. Detected: Mon, Oct 21, 2019 1:33 PM	2%	No category	•
	🗆 📔 attenuestore	Sh	ow the metadata 🔨	No-category	•
	C A stage of	Application: 🔿 🛛 Neutral	274	No category	•
	C Kana Charles 11.8	Productive Unproductive	-	Necompry	•
	C Kenner Hiller 11.3	Category: Select a category	~	No category	•
		Exceptions: Select a group		Newsy	•
	Q Bachledon.com	marketing	100	No. category	•
	C C C C C C C C C C C C C C C C C C C	Cancel	Save	Necodegry	•
					Nage 1 of 1 2 Start

11.5.3 Application settings

Individual application settings

To go to the application settings, click the appropriate icon in the **action** column next to the selected item from the list.

A few parameters can be set in the application settings screen:

- specification of application productivity (neutral, productive or unproductive),
- specification of application category (the categories previously created in the Settings screen are available – <u>click here for more information</u> (49)),
- specification of exceptions for the user groups,
- ability to change the application name in the list.

Exceptions

The productivity settings for specific applications are global settings. By specifying the **exception** for groups, you can classify unproductive applications as productive ones for selected groups.

Setting the exception for an unproductive or neutral application means that the time spent in this application by users belonging to a group with the exception set will be treated as productive.

To further explain the concept of exceptions, let's consider the following situation:

The **Facebook** application is marked globally as **unproductive** in the SmartTime system. The user **Jacek** is a member of the **Marketing** and **Production** groups. The administrator has added this application to exceptions in the **Marketing** group. The consequence of this action is the following events:

- The time spent on Facebook by the members of the Marketing group will be treated as productive when calculating their productivities,
- However, if Jacek spent some time on Facebook, this time will also be treated as productive in the Productivity screen of the Production group (and in his activity screen). By spending time on Facebook, the other members of the Production group that do not belong to the Marketing group will increase their time in unproductive applications. The information that Jacek's time spent on Facebook is treated as productive will be highlighted accordingly by the warning sign icon in the group productivity view.

Categories

The specification of categories for an application will allow for the better graphic representation of collected data in the **Activity** screen. Each category must have a unique name and each application can be assigned to **only one category**.

When installed, the SmartTime module will include the initial list of categories fed from the built-in predefined list. The initial categories are the special type of categories and the destination place where the automatically assigned applications will be saved. However, in the user interface, they do not differ at all from the categories created manually by the administrator.

Configuration of multiple applications at the same time

To facilitate the configuration of applications, the option for the bulk change of their settings is available. To do this, simply select the applications in the list by clicking the relevant box on the left side of the list. By clicking the box at the top, you can select all items displayed on this page.

After selecting the desired applications, the administrator may assign these items to a specific category and specify the productivity of these applications.

≡ 🖅 SmartTime				Hello, Administrator
LL Activity	Applications Search for an application Q			< Any period 📩 >
Applications				
🙁 Group				
Contacts	Selected: 3 Move selected to Produkcja V Move	Set productivity to Unproductive V Set		×
국는 Settings	NAME/ADDRESS A	TIME OF USE 🗠	CATEGORY	ACTION
	☑ 192.168.69.206:8081	18m 51s	No category	\$
	aad.portal.azure.com	15m 36s	No category	\$
	account.axence.net	10m 21s	No category	\$
	admin.microsoft.com	6m 39s	No category	8
	allegro.pl	8m 51s	No category	\$
	Axence nVision 11.0	37h 35m 00s	No category	\$
	Axence nVision 11.5	3h 59m 06s	No category	8
	axence.net	18m 57s	Newsy	8
	bleach.fandom.com	18m 54s	No category	8
	Brave Browser	8m 24s	No category	8
				Page 1 of 6 < > Show 10 -
	Help FAQ Privacy policy			English 🔺 🛛 Copyright © 2020 Axence sp. z o. o. sp. k

11.6 Activity

The Activity screen provides information about the time spent in individual applications.

Depending on the level of rights of the logged in person, the items related to the activity visible for the logged in user will be displayed. This means that the page will look slightly different depending on who is viewing it.

By using the navigation at the top of the screen, the logged in persons may select their **users**, **groups or subordinates** and specify the time period they want to view the data from.

Once the item in the list is specified, you will see the statistics for the selected user. The subsections of this topic describe the individual views depending on the period and the person whose data are viewed.

11.6.1 Access to specific activities

Users may have access to their own activity data as well as the activity data of their subordinates or groups managed by them. Depending on the level of rights of the logged in person, the selected people whose activity is visible for that user will be displayed. This topic is described in detail in chapter Data available to users [506].

11.6.2 Individual user activity

11.6.2.1 Activity on the selected day

The user productivity screen is divided into a few sections.

Statistics

The first element of the user productivity screen is the general information about their work on the computer:

- Productivity the productivity is measured in the selected period. This is the productive time in this period divided by the duration of the user's entire activity on the computer in this period.
- **Productive time** shows the amount of time spent by the user in applications classified as productive.
- **Most popular** displays the name of the most popular application used by the user in the selected period.
- Working time the system calculates the working time for each employee as the difference between the time of the first and last activity on each day.
- On the computer this is the time during which the system detected user activity.
- Away from the computer this is the time during which the system did not detect user activity.

Screenshot

The screenshot makes it possible to view the user's screen snapshot. This allows the superior of this employee to get approximate information about what the user is doing at that moment. It is not possible to zoom in or see the screenshot in more detail. The aim is to provide a certain privacy for the user.

Activity over Time

The next area of the productivity screen is Activity over Time. This area looks different depending on the selected time period (day, week, month, period).

The daily data are presented on a timeline. Information on used applications is presented as bars representing 5-minute intervals. The chart is described in detail in chapter <u>Activity over Time chart</u> [517].

= 🖅 SmartTime							Hel	lo, Administrator (
L Activity	Activity User	✓ Mikuz	~		< Wedr	nesday, Jan 22, 2020 📄	> Day	Week Month
Applications								
Croup	Superior	Subordinates (1)	Member of groups (2)		ls a manager (0)		
Contacts	None	Testowy user	miko	marketing ()				
Settings								Expand 🗸
	PRODUCTIVITY 🔅	PRODUCTIVE TIME ()	MOST POPULAR					
	77%	54m	Axence nVision					
	7770	5411						
	WORK TIME	AT THE COMPUTER	AWAY FROM THE COMPUTER					
	7h08m	1h11m	5h 57m					
	Activity over time							
	100%							
	50%							
	096							
	090	10:00 11:00	12.00 13.00	14.00 15.00	18:00	17:00 18:	00 -	19:00 21
nost:8081/st/#/settings					Neutral Producti	ive 📕 Unproductive 📕 A	t the computer 🔳	Away from the compu

The screenshot below shows the view of activities within a single day:

When the user exceeds the time spent in unproductive applications as defined in the configuration section on a given day, that day will be highlighted. The time displayed on a highlighted background is the user's inactivity time on that date:

≡ 🛃 SmartTime							🔢 Hello, Administrator 🔱
L. Activity							Expand \checkmark
Applications	PRODUCTIVITY ①	PRODUCTIVE TIME	MOST POPULAR				
🧟 Group	56%	6h18m	📕 Sublime Text				
Contacts	5070	on rom					
辈 Settings	WORK TIME	AT THE COMPUTER	AWAY FROM THE COMPU	TER			
	28h 39m	11h12m	17h 27m				
	Activity over time						
	SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
	2	3	4	5	6	7	8
	8	1.0	1.1			8	
			1h 11m 16s	1h 53m 14s			
						Neut	al 📕 Productive 📕 Unproductive

Time spent in applications

This part shows the time spent in applications by the user. This area of the SmartTime module is divided into three sections: productive, neutral and unproductive applications. The available information is shown as a list. The applications marked with an asterisk indicate that an exception has been applied to the application.

The **Show exceptions** option displays the applications for which the user group exceptions have been set. For more information about exceptions, refer to chapter <u>Applications</u> [510].

The **category** charts show the usage of the applications belonging to the individual categories. Information about the most and least common category applications can be found here.

11.6.2.2 Activity over time chart

The daily user data are presented on the Activity over Time chart. Information about the used applications is presented as **bars representing 5-minute intervals**. The chart allows you to carefully analyze the used applications:



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The lower part of the chart shows the user activity time on a given day. In the above chart, the first activity on the selected day was recorded at around 9:00, while the last one at approximately 16:40. The slider can be used to move through the timeline.

On the left side of the chart, there is a percentage scale. It is provided to help visualize the application usage by the user in individual time quanta.

Below the activity chart, there is a legend which indicates the meaning of the colors used in the chart.

The first three items (Neutral, Productive, Unproductive) describe the colors of the bars visible in the chart.

The other two items (On the computer and Away from the computer) refer to the timeline. The colors applied to the timeline indicate when the user was working on the computer and when no activity was recorded at the workstation.

11.6.2.3 Activity in the selected period

When viewing the activity data for an individual user, the Activity over Time section **will look different** depending on the selected time period (day, week, month, period).

The daily data are presented on a timeline and were described in the previous chapter.

The **weekly and monthly** data are presented as a grid. It shows a summary of information about user productivity at the turn of the selected week or month. These are charts showing the percentage of usage of applications with specific productivity. The time displayed under the bars is the user's productivity time on a given day. By moving the cursor over the selected item, more accurate data is displayed. After clicking the selected day, a page containing information concerning that day only will appear.

Activity view for selected week:

Acknown 79% 2h39m Acknee rVision 11.0 Acknown 2h57m 3h19m 2hh38m Ackniy over time Suborr 9 10 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 10	Activity		PRODUCTIVE TIME ()	MOST POPULAR			Hello, Administrator
Over VORK TIME 24h 57m Attrict COMPUTE 3h 19m Attrict ComPUTE At		700/	21-20				
VORK THE AT THE CONFUTE AVENTURE AVENTURE 24h 57m 3h 19m 21h 38m Activity over time Image: Second Se		/9%	2n 39m	Axence nVision 11.0			
The set of th							
Activity over time SURAY 9 10 1 12 13 14 14 13 SURAY 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		WORK TIME	AT THE COMPUTER	AWAY FROM THE COMPUTER			
SURDAY MOREAY TUEENY WENHEDRY TUEENY		24h 57m	3h19m	21h38m			
9 10 11 12 13 14 19 S 9 10 11 12 13 14 19 Weight of the second of the		Activity over time					
Image: Solution S		SUNDAY	MONDAY	TUESDAY WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
Time in applications Versequences I record 100 110 I record 100		9	10	11	12	13 14	15
Time in applications Vew applications Impose the productions Productions		8	I.,	L L	- b-	- L.	8
Instruction Part Exceptions Account Management Console Marcen Alvison the Management Console 113 for Management Console 113 for Management Console 113 for Management Console 113 for Management Console for Management Console for Management Console for Management Console for Management Console for Management Console for Management Console for Management Console for Management Console for Management Console for Management Console for Management Console for Management Console for Management Console for Management Console for Management Console for Management Console for Management Console for Management Console							Neutral Productive Unproc
		Time in applications	applications				
Image: Participation of Mondows 24m 15s							
Image: Prefax Man 07s Steach and Cottana application 4m 12s Image: Prefax 10m 50s Image: Prefax 2m 37s Image: Prefax Image: Prefax 2m 37s 2m 37s Image: Prefax Image: Prefax Prefax 1m 16s						o reddit.com	4m 2
🕐 Microsoft Edge 9m OAs 🔳 Windows Command Processor 1m 18s							
		n bulldogjob.pl	10m 50s	wynagrodzenia.pl	2m 37s		
			9m 04s	Windows Command Processor	1m 18s		

Activity view for selected month:

= 🔁 SmartTime							Hello, Administrator 🕛
L. Activity	PRODUCTIVITY ()	PRODUCTIVE TIME	MOST POPULAR				
Applications	65%	10h 53m	💌 Axence nVis	ion			
stat. Group							
Contacts	WORKTIME	AT THE COMPUTER	AWAY FROM THE COMF				
금는 Settings	62h 34m	16h 32m	46h02m	ו			
	Activity over time						
	SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
	26	27	28	29	30	31	1
							8
	SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
	2	3	4	5	6	7	8
	8	1.0		1.1		8	8
			1h 11m 16s	1h 53m 14s			
	SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY

You can also specify any time period by selecting it from the calendar:

= 🖅 SmartTime	2						Hello, Administrator 🔱
LL. Activity	Activity User	✓ Mikuz	~			< Dec 4, 2019 - Jan 1, 2020 📩 >	Day Week Month
Applications				Today Yesterday	< December 2019	January 2020	
Croup	Superior	Subordinate	Subordinates (1)		Mo Tu We Th Fr Sa Su 25 26 27 28 29 30 1		
Contacts	None	Testowy us	ser miko	Select a day	2 3 4 5 6 7 8	6 7 8 9 10 11 12	
∃≓ Settings				Select a period	9 10 11 12 13 14 15 16 17 18 19 20 21 22		Expand 🗸
	PRODUCTIVITY ①	PRODUCTIVE TIME	MOST POPULAR		23 24 25 26 27 28 29 30 31 1 2 3 4 5		
	83%	5h 56m	Axence nVi	2	Dec 4, 2019 -	Jan 1, 2020 Cancel Select	
	WORK TIME	AT THE COMPUTER	AWAY FROM THE COM	APUTER			
	47h25m	7h05m	40h 20r	n			
	Activity over time						
				DECEMBER 2019			
	SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
	1	2	3	Т.	4	5 6	7

11.6.3 User group activity

11.6.3.1 Activity on the selected day

When displaying the group activity data, the following items are shown.

Statistics

- Productivity productivity is measured in the selected period. It is the sum of the productive time of the employees in the group, divided by the sum of the time of total activity on the computer in the selected period.
- **Productive time of the group** the sum of the time spent by the employees belonging to the group in the selected period.

When an application exception occurs, information that the user's time spent in the selected application is treated as productive will be highlighted accordingly by the warning sign icon in the group productivity view.

Active in a given period

Data on the activity of the group members for whom any activity was recorded in the selected time period will be displayed here.

Time spent in applications

This part shows the total time spent in applications by the group members. This area of the SmartTime module is divided into three sections: productive, neutral and unproductive applications. The available

information is shown as a list. The applications marked with an asterisk indicate that an exception has been applied to the application.

After clicking **View all**, the list of applications in which the group was active will be displayed. In this screen, you can quickly add an exception to the displayed group by clicking on the **Asterisk** icon in the **Exception** column.

The **category** charts show the usage of the applications belonging to the individual categories. Information about the most and least common category applications can be found here.

= E SmartTime						🗰 Hello, Administrator 🕛
Activity Group	✓ marketing	~			K Wednesday, Jan 22, 2020	> Day Week Month
Applications						
	GROUP PRODUCTIVE					
Contacts	54m					
辛 Settings	JHI					
Active in the selected period	Search for an employee	Q				
FULL NAME 👻		PRODUCTIVITY	PRODUCTIVE TIME	WORK TIME	AT THE COMPUTER	AWAY FROM THE COMPUTER
Mikuz		7796	54m 47s	7h 08m 25s	1h 10m 54s	5h 57m 31s
Time in applications	pplications	N	UTRAL		UNPRODUCTIVE	
Axence nVision 11.0	🗙 40m 55s		pepper.pl	4m 47s	💿 reddit.com	1m 59s
Google Chrome	6m 26s	۲	sitepoint.com	4m 35s		
Eksplorator Windows	3m 20s	4	Microsoft Management Console	4m 24s		
Axence nVision - DBCorrectPG	2m 33s		Search and Cortana application	0m 18s		
👙 Firefox	1m 12s	•	html5webtemplates.co.uk	0m 04s		
	1m 12s			0m 04s		
	1m 12s			0m 04s 1h 05m		
CATEGORY	1m 12s					
CATEGORY No category 91%	1m 12s			1h 05m		

11.6.3.2 Activity in the selected period

When displaying the group activity for a period longer than one day, one more section is added to the statistics described in the previous chapter [520], named **Group activity in a given period**.

This part of the screen shows the grid indicating the group productivity in the selected time period. After clicking the selected tile, you will be moved to the detailed data for the selected day.

Similarly to the user activity view, you can select the time period from the calendar and view the activity for it.

Weekly activity view:

🖅 SmartTime							Hello, Administrator
Activity	19%	2N 39M					
Applications							
Group	Active in the selected perio	Search for an employee	Q				
Contacts	FULL NAME 👻		PRODUCTIVITY	PRODUCTIVE TIME	WORK TIME	AT THE COMPUTER 🔺	AWAY FROM THE COMPUTER
Settings	Mikuz		79%	2h 39m 25s	24h 57m 12s	3h 19m 31s	21h 37m 41s
	Group activity over time						
	SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
	9	10	11	12		13	14 1
	8						8
		91%	86%	87%	63%	69%	
	Time in applications vie	w applications					
	PRODUCTIVE		NEUTRAL			UNPRODUCTIVE	
	Axence nVision 11.0	🗙 1h 31m 58s	-	oft Management Console	13m 15s	🎯 reddit.com	4m 2
	Eksplorator Windows	24m 15s	Notatni		10m 27s		
	 Firefox buildenink al 	14m 07s 10m 50s		and Cortana application	4m 12s 2m 37s		
	Microsoft Edge	10m 50s 9m 04s		odzenia.pl vs Command Processor	2m 37s 1m 18s		
	with opone Edge	9m 04s	window	vs.commanu Processor	111 185		

Monthly activity view:

= 🖅 SmartTime							Hello, Administrator 🔱
L Activity	GROUP PRODUCTIVITY	GROUP PRODUCTIVE					
Applications	65%	10h53m					
🤐 Group							
Contacts	Active in the selected per	iod Search for an employee	a. Q				
王士 Settings	FULL NAME 👻		PRODUCTIVITY	PRODUCTIVE TIME	WORK TIME AT	THE COMPUTER 🔺	AWAY FROM THE COMPUTER
	Mikuz		65%	10h 53m 55s	62h 34m 09s	16h 31m 43s	46h 02m 26s
	Group activity over time						
	SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
	26	27		29		31	1
							8
		72%	99%	90%	99%	83%	
	SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
	2	3	4	5	6	7	8
	8					8	8
		57%	41%	49%	99%		

11.6.4 Activity of subordinates

After selecting the activity of subordinates, the **activity data for all subordinates of the selected person** will be displayed. These data are presented in the same manner as the user group data.

The screenshot below shows the activity of all subordinates of the "User user" on selected day:

= 🕑 SmartTim	e						🚻 Hello, Administrator (
LL Activity	Activity Subordinate	 Administrator 	~			< Oct 1, 2019 - Oct 31, 2019	> Day Week Month
Applications							
	GROUP PRODUCTIVITY ①	GROUP PRODUCTIVE					
Contacts	85%	™ 1h13m					
	0370	mism					
	Active in the selected peri	od Search for an employee	٩				
	FULL NAME 👻	Р		PRODUCTIVE TIME	WORK TIME	AT THE COMPUTER	AWAY FROM THE COMPUTER
	Mikuz		85%	1h 13m 54s	35h 13m 19s	1h 25m 57s	33h 47m 22s

The option of displaying subordinates' activity distinguishes between two types of subordinates:

- The first type of subordinates is the so-called direct subordinate. The user (supervisor) who is currently logged in to SmartTime has access to the activities of his direct subordinates. The supervisor does not have to check each of his subordinates individually, because their activity is aggregated and is displayed after clicking on the **Your subordinates** option.
- The second type of subordinates is the so-called second-degree subordinates (subordinates of subordinates), i.e. users whose superior is subordinates of someone else. For example: Mariusz is Karolina's superior and Karolina is Robert's superior. In the SmartTime module, Mariusz has access to both Karolina's activity and her subordinates, i.e. Robert. Such subordinates are grouped depending on the person who is their supervisor. To view the activity of a second-degree subordinate, select a person from the list who is your direct subordinate

= 🖅 SmartTime							II (5)
LL Activity	Activity Subordinate	Vour subordinates	~			K Tuesday, May 10, 2022	Day Week Month
	GROUP PRODUCTIVITY	GROUF TIME Karolina					
	Active in the selected per FULL NAME -		Q_ PRODUCTIVITY	PRODUCTIVE TIME	WORK TIME	AT THE COMPUTER 🖽	AWAY FROM THE COMPUTER 🖽
	/	/					
				No activity No activity registered for the selecte	ed period		
	Help FAQ Privacy policy					E	inglish 🔺 🛛 Copyright © 2022 Axence Sp. z o.o. Sp. j.

1. After clicking on **Your subordinates**, the activity of the logged in user's direct reports will be displayed.

2. After clicking on **Karolina**, the activity of the subordinates of the user Karolina (who is the subordinate of the logged in user) will be displayed..

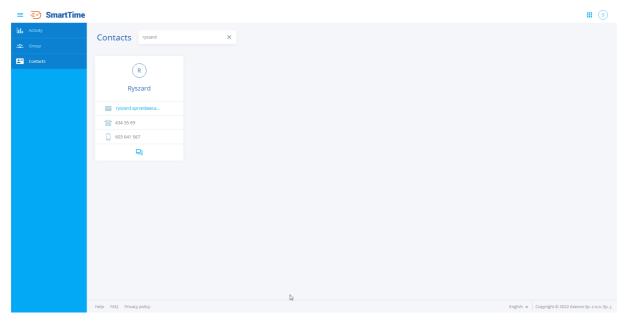
11.7 Contacts

The **Contacts** tab enables the contact data of the users in the nVision database to be searched for and checked if necessary.

The information displayed in this section are as follows:

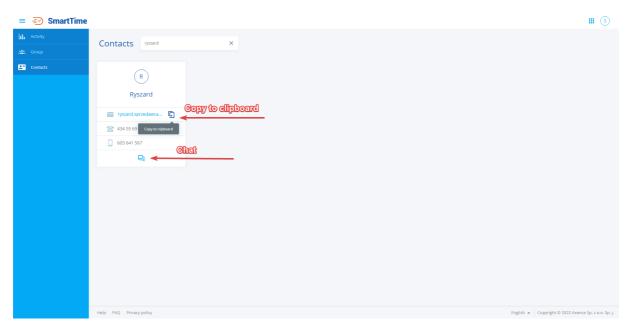
- First and last name of the user,
- E-mail address,
- Desk phone number,
- Mobile phone number.

The search engine in the upper part of the window allows you to quickly find the user you are interested in. The user is searched for by three parameters: **user name**, **first name** and **last name**, and **e-mail address**.



To quickly copy the e-mail address, desk phone number or mobile phone number of a given user, click on the **copy to clipboard** icon, which is displayed on the right, after hovering the cursor over the parameter of interest.

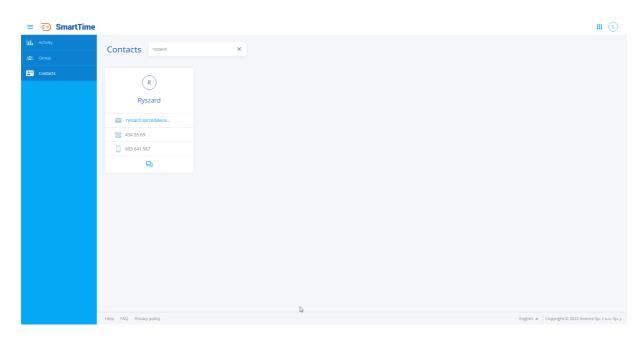
From the Contacts tab you can also go to the chat with the selected user. To start a conversation with a user, click the icon at the bottom of the user information field. After clicking on the icon, the chat will open in a new browser window.

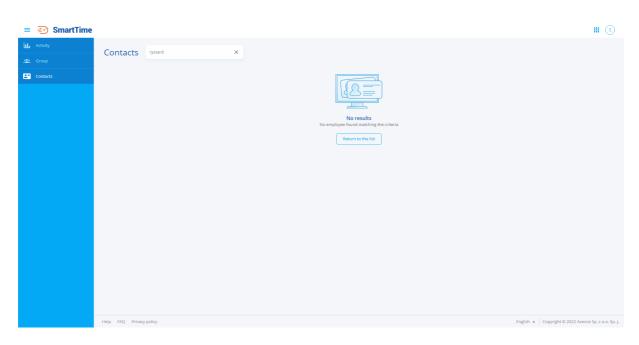


Note, if the chat access setting, both for the user currently logged in to SmartTime and the one we are looking for in the Contacts tab, is limited, the icon will not be available.

Restricting access to the Contacts tab

Axence nVision allows you to configure the user's access to the contact list. If the user has enabled access to contacts, it is displayed on the contact list and has access to it in the SmartTime module. If the user has disabled access to contacts, he does not appear in the contact list and he has no access to the contact list in the SmartTime module. This is a very useful feature as it allows you to hide technical accounts that would otherwise clutter your contact list.





From the console level, we can limit access to the contact list for both a single user and a group of users, or set a default configuration for new users.

To configure access to the contact list for a single user:

- 1. Search for the appropriate user in the nVision console, and then open the user settings window.
- 2. Click on the **Permissions** tab.
- 3. Click on SmartTime.

W User: Rysrard

4. By clicking on the slider, enable or disable access to the contact list.

After clicking on the slider, the permissions of a given user will be updated.

RYSZARD Role: USER	
4 GENERAL	ACCESS TO MODULES AND FEATURES
IN ACTIVITY	Dowley Heldook Smattme
SCREENSHOTS	User role 6 Caraccess the user activity data of direct reports and Caraccess the start had bolgs to program which this user manages.
🐣 ASSETS	 No access
SOFTWARE	Access to data
EVENTS	Access to activity of other users
J DATAGUARD	Access to contacts page User can view the contacts page an in visible on it for other users.
A BLOCKADES	Access to functions
SETTINGS	Enable grivet e time 🔹 User can declore using their work PC for private activities.
A PERMISSIONS	

To configure global contact list access settings:

- 1. Enter the Atlas settings.
- 2. Right-click All Users and then select Atlas Information.
- 3. Click the **Default Permissions** tab.

_ 7 ×

4. By clicking on the slider, enable or disable access to the contact list.

After clicking on the slider, the default settings for new users will be updated.

Axence nVision 13			
Monitoring properties: Atlas			
DATAGUARD BLOCKADES SETTINGS DEFAULT PERMISSIONS	DEFAULT PERMISSIO Permissions automatica Administrator role SmartTime	INS Illy applied to all new users that are imported from Active Directory or created manually. Granted automatically for users that belong to the 'Domain Administrators' group Not granted automatically User Can access the user activity data of direct reports and users that belong to groups which this user manages. No access Enable private time	
	Access to contacts p User can view the contac	age spage an is visible on it for other users.	
	Chat	 Full access Technical support only No access 	
			<u>O</u> K <u>C</u> ancel

11.8 System time

The time and hours presented in the SmartTime module (for example on the activity chart) are always referred to the time of the machine on which the nVision server is installed. Data sent from the Agents are treated as if their events always took place in the server's time. If the customer is in a different time zone, the time is also not converted to the server's time zone.

Working time of employees

The system calculates the working time for each employee as the difference between the time of the first and last activity on each day.

For example, when the first user activity was detected at 9:00 and the last one at 12:00, the working time is three hours.

Part VIIII

12 AdminCenter

12.1 Introduction

AdminCenter is a portal that allows you to create an unlimited number of dashboards to show key network information. Any dashboard can be composed according to your individual requirements. A dashboard is an area of specific size where you can place a number of widgets. The dashboard size can be modified to suit the needs of the Administrator. For details on how to create, modify or share dashboards with other users in read-only mode, see the following sections.

nce nVision event log					
vent name		Device	Priority	Start time	Status
mieniono konfigurację usługi Windows "BIT	- Background Intelligent Transfer Service* Stan: Działa -> Zatrzy	PEPSI (new VTEST) 192.168.0.9	normal	2020/14/12, 12:50 PM	Closed
nieniono konfigurację usługi Windows "BIT	5 - Usługa inteligentnego transferu w tle" Star: Działa -> Zatrzym	MICHAL-J-PC 192.168.69.224	normal	2020/14/12, 12:49 PM	Closed
mieniono konfigurację usługi Windows "BIT	5 - Background Intelligent Transfer Service" Stan: Zatrzymany →	PEPSI (new VTEST) 192.168.0.9	normal	2020/14/12, 12:45 PM	() closed
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mieniono konfigurację usługi Windows "BIT	5 - Background Intelligent Transfer Service" Stan: Działa -> Zatrzy	PEPSI (new VTEST) 192.168.0.9	normal	2020/14/12, 12:34 PM	() closed
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e most popular (All websites) websites for i	he mous Wenumu cheferenio				
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ttps://axence.zendesk.com		11	1 33m 37s	263	
		11	1 14m 18s	252	
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12.2 Management and configuration

12.2.1 Enabling AdminCenter

To enable AdminCenter, navigate to nVision main settings. In the **Service Configuration** tab, you can find the **AdminCenter service status** switch to enable this service:

N Axenc	e nVision 12			
Main				
		ation categories pe templates pre license type Audit 2000 Anange device permissions 2000 Anange trustee permissions 2000 Anange trustee permissions DataGuard		Open SmartTime AdminCenter
Devic	options			
Q Searci	GENERAL	SERVICE CONFIGURATION Configure the status and parameters of services.		
▷ NETW > · ▷ Pr		HelpDesk service status:		
# -#	5 ACTIONS	SmartTime service status:		
da	SERVICE CONFIGURATION	Port number: 8081 🜩		
	3 MAINTENANCE	Encryption: (None) URL: http://192.168.0.	9:8081	
	BLOCKADE MESSAGES			
-d.				
√-В-Ри Д				
¥-њ 1.				
¥.њ				
×-#				
			Obsolete services	
			<u>Ok</u> <u>C</u> ancel	

12.2.2 User permissions

To access AdminCenter, the user must have the role of the **Administrator** or **Superadministrator**. A person with the **Superadministrator** role always has access to all the enabled AdminCenter functionali-ties.

If the user has the **Administrator** role, it needs to be specified whether they may have access to Admin-Center functionalities. To do this, navigate to the user information screen, then select the **Rights** / **Console** tab and enable the **"AdminCenter access and management"** option:

🔂 User: Mikołaj Matuszny				
Account: MIKOLAJ.MATUSZNY	W@AXENCE Role: ADMINISTRATOR		Remote access 🔹 Mikołaj-P	logged on: IC, 192.168 s: Working
	ACCESS TO MODULES AND FEATURES			
IIII ACTIVITY	Console Network Inventory	🔇 Users 🛇 DataGuard 🛇 HelpDesk 🛇 SmartTime		
SCREENSHOTS	Desktop Management Console	v		
🍰 ASSETS	Access to settings Agent visibility			
SOFTWARE	Section in user settings Access to features			
EVENTS	Agent management menu	v		
DATAGUARD	WebAccess console WWW access			
A BLOCKADES	Access and manage AdminCenter			
SETTINGS	Access to devices	Full access		
	Through maps and departments	 Only selected maps and departments (88/88) 		
	Access to users Through groups	 Full access Only selected groups (190/190) 		

AdminCenter allows you to display widgets associated with the individual Axence nVision modules. If the Administrator logged in does not have access to the management of a specific module or

the module is not included in the software license, the Administrator will not be able to create widgets from that module. This information will be shown in AdminCenter:

nVi	sion AdminCenter Test Mild	Finish editing				🇊 C 🖩	
	No near pupies (Mith Scenery) applications for the proop for proop by a Application near National Application near National Applications (National Applications)	Add new widget Select the nVision module and the widget	: type		×		
	Andre H. Bitt	Network Inventory	Users HelpDes	ik DataGuard	SmartTime		
		You do not hav	ve access to the widget configura)) ation from Network modu	le.		
		Cancel			Add		

12.2.3 Free version limitations

The AdminCenter functionality is available in two versions - full and free:

- The full version is included in each ProPerpetual license and in Freemium licenses with the pur-chased technical support service. It allows an unlimited number of dashboards to be created.
- The Freemium license without active technical support allows the use of AdminCenter functionalities, but the user can only create one dashboard with up to three widgets.

12.3 Starting AdminCenter

The AdminCenter portal can be started in two ways.

Accessing AdminCenter from the nVision console

To access AdminCenter from the nVision console, locate the Open AdminCenter button in the main nVision ribbon:



Accessing AdminCenter from the web browser

AdminCenter can also be started from SmartTime or HelpDesk. At the top of the browser window, there is a button to toggle between these portals:

		00	<u> </u>		
≡ ⊗⊦	HelpDesk 🔍 En	ter a search phrase or a ticket ID	Advanced search		A_ Q
.	ashboard			AdminCenter	
4	Dashboard			Desk 🕄 HelpDesk	natic data refresh ir
-	Unclosed tickets			E SmartTime	unclosed tickets

12.4 Navigation within AdminCenter

The navigation buttons are located at the top of the browser window. Starting from the upper left corner of the screen, you can see a box that tells you which dashboard is currently displayed. By clicking the **Edit dashboard** button, you can enter the edit mode for the selected dashboard. Dashboard editing is described in detail in the next section.

nVision AdminCenter Server performance v	Edit	ashboard	🛞 II 🏢 🕚
Mikolaj-PC - Procesor/Czas procesora (%)/_Total 80	16	Mikołą PC - Pamięć/Dostępna pamięć (MB)/* (dowolna instancja) 15m 3000	
		2250	
20		750	
12:04 PM 12:14 PM 12:24 PM 12:34 PM 12:44 PM	12:54 PM	12:44 PM 12:46 PM 12:48 PM 12:50 PM 12:52 PM 12:54 PM 12:56 PM 12:58 PM	

In the upper-right corner of AdminCenter, there are a few buttons. When you hover the mouse pointer over a button, a brief description of this button is displayed:

 nVision AdminCenter
 Server performance
 Edit dashboard

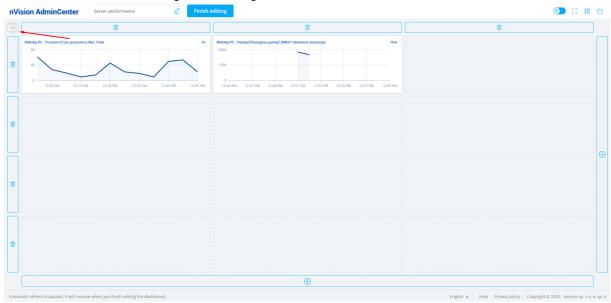
Below is a description of each of the buttons (from the left):

- Switches the AdminCenter color pattern (light or dark color pattern),
- Enters full screen mode,
- Switches to other nVision web-based applications (HelpDesk, SmartTime),
- Logs off the currently logged in user.

12.5 Dashboard management

12.5.1 Basic information

A dashboard is a grid of columns and rows where you can place a number of widgets. Each dashboard has a specific size which affects the maximum number of widgets that can be placed on it. The default size of a new dashboard is a grid consisting of three columns and four rows:



The size of the widget can be checked when adding it to a dashboard:

Select the nVision module and the widget type

Network	Inventory	Users	HelpDesk	DataGuard	SmartTime
			2:2		1:1
	ters from the selected evice	Event	log (alarms)		of the selected TCP/IP service

 \times

Cancel

Detailed information on creating, modifying and removing dashboards is described in the following sections.

12.5.2 Creating new dashboard

Create a new dashboard in the following way:

- 1. Expand the list of available dashboards by clicking the box at the top of the screen.
- 2. Click the **Add new dashboard button** at the bottom of the list.
- 3. Enter the name of the new dashboard and confirm with the Add button.

nVision AdminCenter	Server performance	~	Edit dashboard						🛞 🖸	 ט
	Domyślny	≪ ₫								
	Help	~ 🗊								
	Server performance	≪ ₫								
	Test MJ	~ 🗊								
	Test MM	≪ ₫								
	Testowy	≪ ₫	-							
	Add new dashboard	1								
nVision AdminCenter	Server performance		Edit dashboard						۰.	0
				New dashboard Dasboard name New dashboard	(Cancel				

Once you have completed the steps above, the new dashboard will be added and you will be able to edit it. Dashboard editing is described in the next section. 534

12.5.3 Editing a dashboard

12.5.3.1 Dashboard edit mode

Entering and exiting the dashboard edit mode

To enter the dashboard edit mode, click the **Edit dashboard** button next to the name of the dashboard displayed:

				AdminCenter	5	35
					L	
nVision AdminCenter	Help	✓ Edit dashboard			: 🛞	: Ⅲ ()

When you have finished modifying the dashboard, click the Finish editing button to save your changes:

sion AdminCenter Help	Finish e	diting		🛞 C) 🏢	

12.5.3.2 Changing the size of the grid

When you enter the dashboard edit mode, a grid appears on the screen where you can place widgets. You can increase the dashboard size so that you can place more widgets on it.

To add addi	tional c	columns or rows	to the gric	l, click the	e "+" button at t	he bottom right of	of the screen:	
nVision AdminCent	er Help	🖉 🛛 Fini	sh editing				🌒 C 🖩	ወ
(GRID)		m			n	(Internet in the second	m	٦ C

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To decrease the dashboard size, delete a row or column by clicking the trash icon next to each item:

nVisio	n AdminCenter Help	🖉 🛛 Finish editing				🛞 🛙 🖩 (
5:4		۵	1	Û	Û	Î
Ū						
7						

12.5.3.3 Adding widgets

Add a new widget to an existing dashboard in the following way:

- 1. Select a dashboard from the list, and then enter the edit mode.
- 2. Click the location on the grid where you want to place the new widget.

3. Select one of the available widgets. Widgets are described in detail in section <u>Available</u> widgets.

4. Click **Add** to confirm your selection.

Once you have completed the steps above, the widget will added to the dashboard.

1	1	1	1	1
Ð				

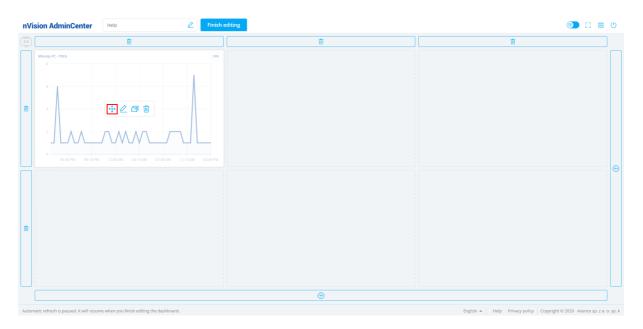
nVision AdminCenter	THE	2 Fields	editing			O #	O
		Add new widget Select the nVision module Network		HelpDesk DataGuard	SmartTime		
		Performance counters device	from the selected Event log	2:2 (alurms) Response time of	The selected TCP/IP mice		
		Cancel			Add		
•							
Automatic refresh is passed, it will res-					Sight a links		

12.5.3.4 Modifying widgets

There are several modification options available for widgets added to the dashboard.

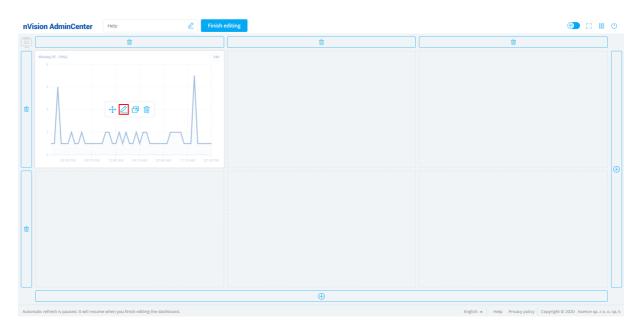
Moving a widget

To move a widget to a different location on the dashboard, simply hover your mouse over the arrow button, which appears after hovering over the widget, and drag it to the selected location:



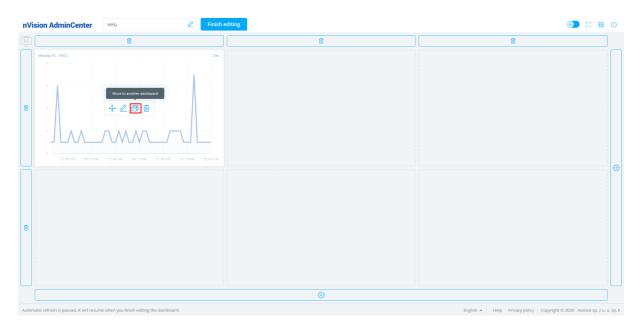
Editing a widget

To edit the widget configuration, click the pencil icon button which appears when you hover over the widget:



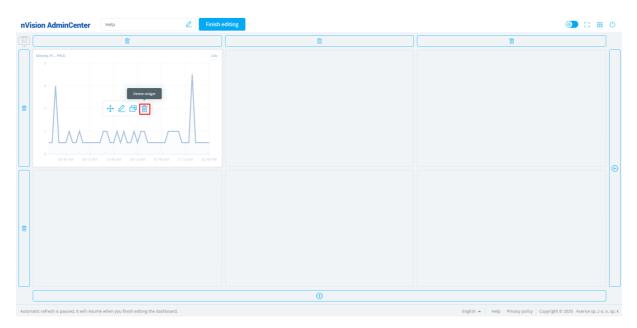
Moving a widget to another dashboard

To move a widget to another dashboard, select the movement button on the screenshot below, and then select the target dashboard and confirm with the **Move button**:



Deleting a widget

To delete a widget, click the trash icon button, and then confirm the delete operation with the **Delete button**:



12.5.4 Available widgets

AdminCenter allows you to create widgets to show data from any Axence nVision module. For adding widgets to dashboards, refer to the section <u>adding widgets</u> [536].

The following sections describe all the available widgets grouped by module. Select an item in the list to go to the desired chapter:

- Network module widgets 539
- Inventory module widgets 543
- Users module widgets 546
- DataGuard module widgets 551
- HelpDesk module widgets
- SmartTime module widgets 555

12.5.4.1 Network module widgets

Performance counter for a selected device

The widget makes it possible to view a graph showing the values of a specific performance counter for the selected device.

The configuration requires the selection of the device, the performance counter, and time range for the data to be shown:

Select widget details for Performance counters from the selected device

NETWORKS AND MAPS	mik				
 Sieci 	NAME	IP	ТҮРЕ	PRIORITY	
> 🗅 Mapy użytkownika	Mikołaj-PC	192.168.69.201	Windows 10	normal	
> 🗅 Oddziały	Telefon Mlkołaja - 321	192.168.111.211	IP Phone	normal	
> 🗅 Inteligentne mapy					
Select a counter available on this device:	Dysk fizyczny/Czas dysku (%)/_Tot	al V			
Select a time range of displayed data:	15 min	~			
Cancel				Back	Add

The screenshot below shows an example of the widget:

nVision AdminCenter	Edit dashboard	AdminCenter Server performance	dashboard
Miledaj PC - Processor/Case processor (N)/_Total	Ih Mikolaj-PC - P 3000 2250 1500 750 77 PM 12:47 PM	\sim	2250

Note! To add a widget with a performance counter, the performance counter must be added to the device beforehand.

Event log (alerts)

The widget makes it possible to view a table with the event log, which is also visible in the nVision console. The administrator can narrow down the displayed results depending on the importance of the event:

Х

			Au	minCenter	54
← Edit widget					
Select widget details for Event log (ala	rms)				
NETWORKS AND MAPS	SHOW EVENTS BY	SEVERITY			
Sieci	Select	t all events			
 > Mapy użytkownika > Oddziały > Inteligentne mapy 	CriticaImpo		Normal		
Cancel				Back	Updat
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Response time of selected TCP/IP service

The widget makes it possible to view a graph showing the values of responses from the selected TCP/IP service for the selected device.

The configuration requires the selection of the device, the TCP/IP service and time range for the data to be shown:

← Edit widget

Select widget details for Response time of the selected TCP/IP service

 Wszystkie urządzenia (Atlas) Sieci Mapy użytkownika 	NAME	IP	ТҮРЕ	
Mapy użytkownika			ITE	PRIORITY
	Mikołaj-PC	192.168.69.201	Windows 10	normal
🗅 Oddziały	Telefon Mlkołaja - 321	192.168.111.211	IP Phone	normal
Inteligentne mapy				
]		
Select the service available on this device:	PING	~		
Select a time range of displayed data:	: 1 h	~		
Cancel				Back



Note! To add a widget with a response time of the TCP/IP service, the service must be added to the device beforehand.

Recently discovered devices on the network

The widget allows you to view recently discovered devices on the network. It is possible to narrow down the results to a specific network map or departament selected by the Administrator:

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AdminCenter	543
L	

← Add new widget	×
Select widget details for Recently detected devices on the network	
NETWORKS AND MAPS	
🛞 Wszystkie urządzenia (Atlas)	
> 🗅 Sieci	
> 🗅 Mapy użytkownika	
> 🗅 Oddziały	
> 🗅 Inteligentne mapy	

Cancel	idaat ia ah	ours in the correspondet heles		Back Add
IT example of a w		own in the screenshot below	v.	🛞 C3 🗰
Recently detected devices in Wszystkie urządz	enia (Atlas)			
Device		Available services	IP Address	Detection date
DESKTOP-RBG47AH			10.0.2.15	2021/09/03, 10:19 AM
10.10.20.30			10.10.20.30	2021/03/03, 09:48 AM
192.168.0.127		PING	192.168.0.127	2021/23/02; 02:42 PM
GOPIWO-XPS			192.168.69.209	2021/11/02, 05:01 PM
192.168.69.245		PING	192.168.69.245	2021/08/02, 04:11 PM

12.5.4.2 Inventory module widgets

Recent changes in hardware configuration

The widget makes it possible to view a table with changes in the hardware configuration for a selected group of devices.

The configuration requires the selection of the map or department for which the data on changes in hardware configuration are to be shown. You can also define which machine components are to be included in this summary:

← Edit widget

Select widget details for Recent changes to the hardware configuration

NETWORKS AND MAPS	SELECT WHICH CHANGES TO DISPLAY	
💮 🛞 Wszystkie urządzenia (Atlas)	✓ Select all changes in the h	nardware configuration
> 🗅 Sieci		
> 🗅 Mapy użytkownika	Operating system	Logical drives
V DOddziały	Computer	Monitors
···· 뮮 Administracja		
	✓ Motherboard	Video controllers
	✓ BIOS	Input devices
	Processors	Sound devices
'	Memory	Network cards
	Disk drives	Printers
器 Stare_Komputery_DSW	✓ Hard drives	Ports
器 Wsparcie	Optical drives	
he screenshot below shows an ex	xample of the widget:	
	Cashboard	🍪 E 🎹 (
cent changes to the hardware configuration for Wsparcie Configuration changes Devic	ice Priority	Start date
Pample smithen big z 16 GB no 32 GB. MICh	MLJPC • moderate	2020/19/11, 12:49 PM

Recent changes in software configuration

The widget makes it possible to view a table with changes in the software configuration for a selected group of devices.

The configuration requires the selection of the map or department for which the data on changes in the configuration are to be shown. In addition, you can also define which operations are to be visible (installation, uninstallation, installation or uninstallation) and indicate the type of applications to be included in the summary (audited, unaudited, all applications):

 Edit widget Select widget details for Recent changes to a 	the software configuration	
NETWORKS AND MAPS	SHOW THE FOLLOWING APPLICATION CHANGES	
🐨 🛞 Wszystkie urządzenia (Atlas)		
> 🗅 Sieci	Uninstalled only V	
> 🗅 Mapy użytkownika		
> 🗅 Oddziały	Audited applications only	
> D Inteligentne mapy		

Cancel	Back	Update	

The screenshot below shows an example of the widget:

nVision A	dminCenter Serv	ver performance	v Edit dashbo	ard					۵ 🖩 🕄 🌑
Recent changes to	o the software configuration for Wszy	stkie urządzenia (Atlas)			Recent changes t	to the software configuration for Wszysti	cie urządzenia (Atlas)		
Actions	Application name	Device	Severity	Start date	Actions	Application name	Device	Severity	Start date
Uninstalled	Mozilla Firefox 82.0.3 (x64 pl)		 moderate 	2020/14/12, 08:13 AM	Installed	Mozilla Firefox 83.0 (x64 pl)		 moderate 	2020/14/12, 08:13 AM
Uninstalled	Google Chrome		moderate	2020/11/12, 11:47 AM	Installed	Intel(R) Dynamic Tuning		 moderate 	2020/11/12, 01:29 PM
Uninstalled	ell Command Update for Window	ws 1	moderate	2020/11/12, 11:47 AM	Installed	Realtek Audio Driver		 moderate 	2020/11/12, 01:29 PM
Uninstalled	Mozilia Firefox 76.0.1 (x64 pl)		 moderate 	2020/11/12, 11:10 AM	Installed	Google Chrome		 moderate 	2020/11/12, 11:47 AM
Uninstalled	licrosoft .NET SDK 5.0.100-rc.2.204	179.1	moderate	2020/10/12, 03:59 PM	Installed	ell Command Update for Windows	1	moderate	2020/11/12, 11:47 AM

Recent events on assets

The widget makes it possible to view a table with the events associated with assets (Assets / Events in the nVision console).

The configuration requires the selection of the map or department for which the data on asset events are to be shown.

Select widget details for Recent resource management events

NETWORKS AND MAPS
🛞 Wszystkie urządzenia (Atlas)
> 🗅 Sieci
> 🗅 Mapy użytkownika
> 🗅 Oddziały
> 🗅 Inteligentne mapy

Cancel			
he screensho	ot below sho	ows an exam	ple of the wid
NVision AdminCenter	Server performance	✓ Edit dashboar	rd
Recent resource management events in Wszy	stkie urządzenia (Atlas)		
Resource name	Resource type	Description	Date
Acronis Backup	Licencja	Purchase new license	2020/29/04, 12:00 AM
Acronis Backup	Licencja	sad	2019/09/05, 12:00 AM
Microsoft Office Professional Plus 2019	Licencja	sad	2019/22/02, 12:00 AM
MarcinM-PC	Komputer	ALARM - KONIEC GWARANCJI	2019/12/02, 12:00 AM
MarcinM-PC	Komputer	1	2019/12/02, 12:00 AM

12.5.4.3 Users module widgets

Top most visited websites

The widget shows the top most visited websites for a selected group of users in the last 24 hours.

The configuration requires the selection of the group of users and the category of websites. The categories of websites can be modified in the main nVision options using the **User activity / Domains** tab.

 \times

		AdminCenter	
← Add new widget			
Select widget details for The most popular	r websites		
SELECT AN ATLAS OR A GROUP	SHOW WEBSITES		
🛞 Wszyscy użytkownicy			
> GRUPY	All websites	~	
INTELIGENTNE GRUPY			
Cancel		Back	A
Cancel		Back	A
Cancel		Back	A
Cancel he screenshot below shows ar	n example of the widget:	Back	A
	n example of the widget:	Back	A
he screenshot below shows an Vision AdminCenter Server performance	Edit dashboard		
he screenshot below shows an Nision AdminCenter Server performance	Edit dashboard	Vas	
he screenshot below shows an Vision AdminCenter Server performance	Edit dashboard Total time 10n 30m 40g	Vors 3100	
he screenshot below shows an Nision AdminCenter Server performance	Edit dashboard Total time 190, 39m 40s 2h 20m 199	Vars 5160 575	
he screenshot below shows an Vision AdminCenter Server performance	Edit dashboard Total time 10n 30m 40g	Vuts 5100 575 410	
he screenshot below shows an Nision AdminCenter Server performance · · he not peptide (All websites for the group Wazyey utylsametry us: http://server.getiferce.su http://server.getiferce.su	Edit dashboard Total time 190, 39m 40s 2h 20m 199	Vorts 5100 573 410 443	
he screenshot below shows an Vision AdminCenter Server performance · the nost popular (All websites) websites for the group Wazyoy unfolgenetic the for performance vebsites for the group Wazyoy unfolgenetic the for the formation of the fore	Total time 19h. 20m. 40s 2h. 20m. 19s 1n. 50m. 01s	Vers 108 575 410 443 263	
he screeenshot below shows an vision AdminCenter Server performance	Test ime 10, 30m, 40p 20, 20m, 19p 1s, 50m, 60p 1n, 40m, 21p	Vorts 5100 573 410 443	
he screeenshot below shows an Vision AdminCenter Server performance · · · He most pepular (All websites for the group Watypey uigtsownicy UIL: http://www.e.undesk.com http://www.e.undesk.com	Total time 100, 200, 100, 200, 200, 200, 200, 200,	Vers 108 575 410 443 263	
he screeenshot below shows an Vision AdminCenter Server performance · · · Here spepuler (All vestates for the group Viszyes usystematic true rege/Tasence yestlores eu http://www.exandes.com http://www.exandes.com http://www.exandes.com	Tedit dashboard Tedat time Ian, 36m, 40s Ian, 36m, 40s Ian, 56m, 40s	Vites 5169 575 410 433 633 263	
New Socreeenshot below shows an Vision AdminCenter Server performance Top Jonation Server performance Interst popular (All vestistes) vestistes for the group Wazyey uitytswenty: tract Interst popular (All vestistes) vestistes for the group Wazyey uitytswenty: tract Interst popular (All vestistes) vestistes for the group Wazyey uitytswenty: tract Interst/Intersec.andreak.com Integr/Intersec.andreak.com Integr/Intersec.andreak.com Integr/Intersec.andreak.com Integr/Intersec.andreak.com Integr/Intersec.andreak.com	Test time Inn. 38m 40g 2n. 20m 19n 2n. 20m 19n 1n. 56m 60a 1n. 56m 60a 1n. 37n 371 In. 16m 55a In. 05m 244	Vars 388 398 398 419 203 203 203 203 118	

Top 10 applications with the longest run time

The widget shows the top 10 applications with the longest run time for a selected group of users.

The configuration requires the selection of the group of users and the category of applications. The categories of applications can be modified in the main nVision options using the **User activity** / **Applications** tab.

Select widget details for Top 10 applications by run time

SELECT AN ATLAS OR A GROUP	SHOW APPLICATIONS	
🐨 🛞 Wszyscy użytkownicy		
> 🗅 GRUPY	All applications	\sim
> 🗅 INTELIGENTNE GRUPY	All applications	^
	Development	
	Document editing	
	E-mail	
	Instant messengers	
	Maintenance	
	Multimedia	¥

C	ancel	

Back Add

 \times

The screenshot below shows an example of the widget:

nVision AdminCenter	Server performance	✓ Edit dashboard			ت 🛞	ወ
The most popular (All applications) application	s for the group Wszyscy użytkownicy by run time					24h
Application name			Total run time	Application users		
Microsoft Teams			487h 17m 04s	31		
Shell Infrastructure Host			431h 41m 14s	44		
Runtime Broker			431h 40m 05s	44		
nVision Session Agent			430h 58m 59s	44		
Windows Shell Experience Host			398h 24m 38s	42		
COM Surrogate			368h 39m 50s	42		
Usermode Font Driver Host			328h 52m 57s	33		
Application Frame Host			312h 47m 36s	34		
Proces hosta dla usług systemu Windows			309h 27m 39s	35		
Proces hosta dla zadań systemu Windows			309h 27m 38s	35		

Top 10 applications with the longest activity time

The widget shows the top 10 applications with the longest activity time for a selected group of users.

The configuration requires the selection of the group of users and the category of applications. The categories of applications can be modified in the main nVision options using the **User activity / Applications** tab.

by run time	
SHOW APPLICATIONS	
All applications V	
All applications	
Development	
Document editing	
E-mail	
Instant messengers	
Maintenance	
Multimedia	
	SHOW APPLICATIONS All applications All applications Development Document editing E-mail Instant messengers Maintenance

nVision AdminCenter	Server performance	V Edit dashboard			 CC 1	1 U
The most popular (All applications) application	ns for the group Wszyscy użytkownicy by active tin	e				24h
Application name			Total active time	Application users		
Firefox			39h 13m 05s	21		
Microsoft Teams			30h 48m 28s	27		
Microsoft Outlook			25h 04m 16s	26		
Google Chrome			13h 16m 21s	9		
Podłączanie pulpitu zdalnego			7h 33m 23s	4		
SonicWall Global VPN Client			6h 41m 12s	6		
Eksplorator Windows			4h 28m 27s	30		
Vivaldi			4h 19m 19s	2		
Microsoft Excel			2h 38m 41s	12		
Microsoft Visual Studio 2019			1h 54m 01s	2		

Users who print the most

The widget lists the users who have made the most prints in the last 24 hours.

The configuration requires the selection of the group of users for which the data are to be shown.

Select widget details for Users printing the most

SELECT AN ATLAS OR A GROUP			
Wszyscy użytkownicy			
> C GRUPY			
> 🗅 INTELIGENTNE GRUPY			
Cancel			Back Add
Cancel			Back
The screenshot below shows	an example of the wide	pet:	
	Edit dashboard	j =	🛞 El 🖩 🕛
nVision AdminCenter Server performance			
Users printing the most in Wszyscy użytkownicy	24h		
User name Anna	Number of pages		
Kamil	3		
Magdalena Grzegorz	3		

Users with highest bandwidth usage

The widget shows the statistics of bandwidth usage by users in the last 24 hours.

The configuration requires the selection of the group of users for which the data are to be shown and that the column by which the results are to be sorted is indicated.

 \times

LECT AN ATLAS OR A GROUP	ORDER RESULTS BY	
Wszyscy użytkownicy		
GRUPY	WAN input	\sim
INTELIGENTNE GRUPY	WAN input	
	WAN output	
	LAN input	
	LAN output	
Cancel		Back
Cancel		Back Add

AdminCenter

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		2.6 GB	97.2 MB	46.1 MB	1.8 MB
		2.3 GB	0 B	3.7 MB	0 B
		1.3 GB	0 B	3.1 MB	0 B
		900.7 MB	213.9 MB	2.0 MB	77.7 KB
		817.1 MB	0 B	844.0 KB	0.8
		405.4 MB	0 B	6.8 MB	0.8
		403.3 MB	0 B	10.9 MB	0 B
		296.6 MB	0 B	12.2 MB	0 B
		247.1 MB	141.3 MB	0.8	0.8

12.5.4.4 DataGuard module widgets

Last 10 devices attached

The widget lists the last 10 devices connected to machines with Agents.

The configuration requires the selection of the department or network map for which the events are to be shown. You can also narrow down the results by selecting the kind of device (trusted, untrusted, all) and the type of device (hard disk, floppy disk, etc.):

Cancel

Add new widget

Select widget details for The last 10 devices attached

SELECT ATLAS OR GROUP	SHOW DEVICES	
Devices Users	All (trusted and untrusted)	~
Construction of the second secon	SHOW SELECTED DEVICE TYPES	
> 🗅 Inteligentne mapy	 Hard disk USB storage device Storage device Virtual volume 	 Floppy drive Optical drive SD card Other

The screenshot below shows an example of the widget:

e last 10 devices attached (All) in the group	o Wszystkie urządzenia (Atlas)			
iser name	Device	Device type	Device name	Date
		Windows 10	OneNote for Windows 10	2020/14/12, 01:35 PM
		Windows 10	SAMSUNG Mobile US8 Modem	2020/14/12, 12:31 PM
		Windows 10	Galaxy J5 (2016)	2020/14/12, 12:31 PM
		Windows 10	OneNote for Windows 10	2020/14/12, 12:29 PM
		Windows 10	OneNote for Windows 10	2020/14/12, 11:48 AM
		Windows 10	SAMSUNG Mobile USB Modern	2020/14/12, 11:03 AM
		Windows 10	Galaxy J5 (2016)	2020/14/12, 11:03 AM
		Windows 10	HP w Support	2020/14/12, 11:00 AM
		Windows 10	HP w Marketing	2020/14/12, 11:00 AM
		Windows 10	SAMSUNG File-Stor Gadget US8 Device	2020/14/12, 10:59 AM

Last 10 operations on files

The widget lists the last 10 file operations for the selected department or map.

The configuration requires the selection of the department or network map for which the events are to be shown. You can also narrow down the results by selecting the type of file operations (created, modified, deleted, moved or renamed) and type of connected device:

Х

Back

				AdminCenter
← Edit widget				
	or Last 10 file operations	5		
SELECT ATLAS OR GROUP	p	SHOW SELECTE	D OPERATIONS ON FILES	
Devices	Users	🔽 Sel	ect all operations	
- 🛞 Wszystkie urząd	(zenia (Atlas)		eated	V Modified
> 🗅 Sieci			leted	Renamed
> 🗅 Mapy użytkowni	ika		oved	
 > C Oddziały > C Inteligentne maj 	ру	OPERATIONS C	ON DEVICES	All (trusted and untrusted)
		Sel	ect all types	
		На	rd disk	Floppy drive
			B storage device	Optical drive
			-	
		Sto	orage device	SD card
Cancel			rage device tual volume	Other
	elow shows an ex	Uir Vir	tual volume	Other
	elow shows an ex	Uir Vir	tual volume	Other
ne screenshot be Vision AdminCenter ast 10 operations (All) on files (All (trusted a	ttt ind untrusted)) (USB storage device, Optical drive	ample of the wid Catit dashboard	get:	Other Back
ne screenshot bo Vision AdminCenter	ttt	ample of the wid	tual volume	Other
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12.5.4.5 HelpDesk module widgets

HelpDesk ticket statistics

The widget makes it possible to view a table with information on HelpDesk tickets in the last 24 hours. The configuration requires the selection of the properties by which tickets are to be grouped (priority, status or category):

Select widget details for HelpDesk ticket statistics

SELECT A PROPERTY TO GROUP THE TICKETS BY

Priority	~	(j)
Priority		
Status		
Category		

Cancel

Back Add

 \times

The screenshot below shows an example of the widget:

nVision AdminCenter	Server performance	∨ Edit dashboard			🛞 🛛 🗰 😃
HelpDesk tickets by priority			24h	HelpDesk tickets by status	24h
Priority			Tickets	Status	Tickets
				New	0
Critical			0	Open	0
				Waiting for response	0
High			0	Suspended	1
Ū.					
Normal			1		
Low			0		
Trival			0		

Last 10 submitted tickets

The widget makes it possible to view a table with the last 10 tickets created in HelpDesk. No additional configuration is required for this widget.

The screenshot below shows an example of the widget:

10 richard	submitted to HelpDesk					
ID	Priority	Status	Category	Requester	Assignee	Subject
1360	Normal	Suspended	Komputer			Calisto - zmiana przeznaczenia - imformacje i wykonane działamia
1358	Normal	Suspended	Komputer			Analiza błędów/działania Laptopa Dell Latitude E5570.
1356	High	Suspended	Komputer			bardzo niska głośność głośnika w laptopie
1353	Normal	Suspended	***Ogóine			Przeniesienie szanowista pracy Pawła
1352	Normal	Suspended	Komputer			Konfiguracja komputera dla Grzegorz Wilk w firmie na 2021
1333	Normal	Suspended	Komputer			komputer się restartuje bez powodu
1309	Normal	Suspended	***Ogólne			Nie działa DNS na maszynie wirtualnej
1302	Normal	Open	Inne			Zakup wyposażenia dla DSW: słuchawki i telefony komórkowe
1301	Normal	Suspended	Telefon IP			Clapty restart telefonu od
1299	Normal	Walting for response	Komputer			Blokowanie komputera bez przyczyny

The oldest 10 opened tickets

The widget makes it possible to view a table with the 10 oldest tickets opened in the HelpDesk module. No additional configuration is required for this widget.

The screenshot below shows an example of the widget:

e oldest 10 tickets open in HelpDesk						
Date	ID	Priority	Category	Requester	Assignee	Subject
2017/19/07, D4:24 PM	224	Normal	Dostępy do usług			Zmiana hasel
019/10/06, 06:23 AM	880	Normal	Dostępy do usług			Resolwacja nazw DNS
2020/27/03, 01:31 PM	1170	Normal	Inne			Poczta i Teams na tel priv
1020/24/04, 07:01 AM	1198	Normal	Aplikacja			VPN - rozłączanie
020/09/10, 12:45 PM	1295	Normal	Inne			Uszkodzony kabel HDMI w s. konf. X p.
020/12/10, 02:45 PM	1299	Normal	Komputer			Biokowanie komputera bez przyczyny
020/13/10, 12:58 PM	1301	Normal	Telefon IP			Ciagly restart telefonu cd
020/15/10, 04:34 PM	1302	Normal	Inne			Zakup wyposażenia dla DSW: słuchawki i telefony komórkowe
020/20/10, 11:12 AM	1309	Normal	***Ogólne			Nie działa DNS na mazzynie wirtualnej
020/19/11, 05:44 AM	1333	Normal	Komputer			komputer się restartuje bez powodu

12.5.4.6 SmartTime module widgets

User activity

The widget shows a table representing the activity and productivity of users in a selected group. The configuration requires the selection of a group of users and the way in which the results are to be sorted (the most productive or the most unproductive users):

Select widget details for Users activity

SELECT A GROUP	P	SHOW US	SERS			
 Axence Wbudo forest.l forest.l axence ax	n Vision wane ocal .local 55_WPG terprise Key Admins listo \$ Acronis ApiGateway Users listo \$ Acronis Remote Users SyncBrowse IsAdmins y Admins	 mos leas 	t productive t productive			
Cancel	y Admins ISyncAdmins	n example of the	widget:		Back	Add
east productive users in the group						
er name	Productivity 96%	Productive time 3h 50m 29s	Work time	At the computer	Away from the computer	
	90%	3h 18m 21s	4h 28m 30s 4h 38m 57s	3h 59m 54s 3h 23m 46s	28m 36s 1h 15m 11s	

Users with longest unproductive time

The widget shows the top 10 users with the longest unproductivity time in a selected group of users. The configuration requires the election of the group of users for which the data are to be shown.

 \times

Select widget details for Users with the most unproductive time

Axence nVision			
🗁 Wbudowane			
🛞 Storage Replica Adı	ninistrators		
🗝 🛞 RDS Endpoint Serve	rs		
🗝 🛞 Certificate Service I	COM Access		
🗝 🛞 Access Control Assi	tance Operators		
> 🛞 Users			
🛞 Backup Operators			
8 IIS_IUSRS			
🗧 🛞 Event Log Readers			
8 Server Operators			

Cancel

Back Add

The screenshot below shows an example of the widget:

		i	0			
Vision AdminCenter	Server performance V	Edit dashboard			(3)	C3 🗱
e users with the most unproductive time in	a the group Users					
User name	Unproductive time	Productive time	Work time	At the computer	Away from the computer	
	36m 18s	3h 49m 10s	5h 38m 14s	4h 47m	51m 14s	
	22m 01s	2h 58m 06s	13h 11m 56s	3h 39m 10s	9h 32m 46s	
	15m 45s	3h 41m 45s	4h 56m 04s	4h 09m	47m 04s	
	9m 46s	4h 58m 10s	5h 42m 21s	5h 12m 38s	29m 43s	
	4m 43s	3h 13m 33s	4h 46m 03s	3h 42m 16s	1h 03m 47s	
	3m 35s	3h 06m 28s	5h 43m 57s	3h 26m 19s	2h 17m 38s	
	2m 37s	4h 26m 52s	5h 48m 17s	4h 35m 56s	1h 12m 21s	
	0m 42s	4h 41m 05s	5h 24m 43s	4h 58m 28s	26m 15s	
	0m 27s	3h 52m 53s	4h 40m 16s	3h 57m 56s	42m 20s	
	0m 19s	4h 30m 59s	5h 30m 33s	5h 02m 49s	27m 44s	
tomatic dashboard refresh in 51 secor	nds.			En	nglish 🔺 Help Privacy policy Copyright © 2020 Axe	nce sp. z o. c

12.5.5 Deleting a dashboard

Delete an existing dashboard in the following way:

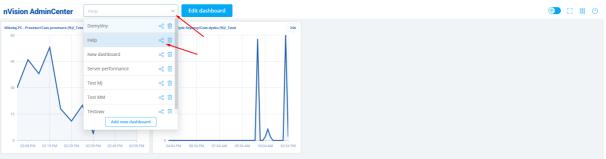
- 1. Expand the list of available dashboards by clicking the box at the top of the screen.
- 2. Click the trash can icon next to the item to be deleted.
- 3. Confirm the deletion by clicking the **Delete** button.

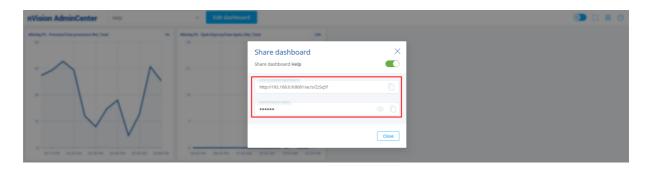
nVision AdminCenter	Help	~ Edi	dashboard		
Mikołaj-PC - Procesor/Czas procesora (%)/_Tota	Domyślny	😪 🗊 ysk fizycz	y/Czas dysku (%)/_Total		24h
60	Help	≪ ₫			
45	New dashboard	~ 🗊			
	Server performance	≪ ⊡			
30	Test MJ	≪ ₪			
	Test MM	≪ ₪			
15	Testowy	« m			
~	Add new dashboa	rd			
0		0		\square	
02:09 PM 02:19 PM 02:29 PM	02:39 PM 02:49 PM 02:59 PM	04:04 PM 08:3	PM 01:04 AM 05:34 AM 10	104 AM 02:34) PM

12.5.6 Sharing a dashboard

Sharing a dashboard

- 1. Share a dashboard in read-only mode with **any user** in the following way:
- 2. Press the **share button** next to the dashboard you want to share.
- 3. Move the **Share dashboard** slider. A unique link and access token allowing access to the dashboard will be displayed.
- 4. Copy the unique link and the access token and give them to the person who is to access the dashboard.





Opening a shared dashboard

Run a shared dashboard in the following way:

- 1. Use the link generated when sharing the dashboard to view it in your browser.
- 2. Enter the dashboard access token and click Log in.

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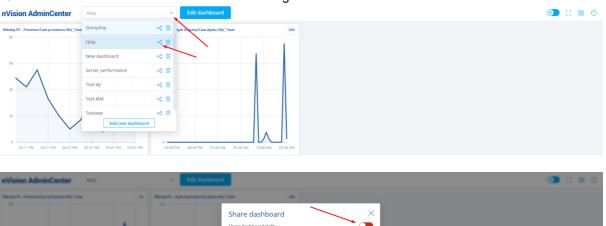
	Admino	SILGI	
Log in			
Token			
	Log	in	
	Log in	Log in Token	

Once you have completed the steps above, the dashboard will be displayed without the ability to edit it. It is not possible to share editable dashboards.

Disabling the sharing of a dashboard

Disable the sharing of a dashboard in the following way:

- 1. Expand the list of available dashboards by clicking the box at the top of the screen.
- 2. Press the share button next to the dashboard which is currently shared.
- 3. Move the Share dashboard slider. The sharing of the dashboard will be disabled.





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13 Reports

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13.1 Introduction

Axence nVision® includes very advanced, printable reports. There are several predefined reports, providing the most important information for every host and map. You can also easily create your own reports: read more in the <u>Creating reports</u> [562] topic.

Opening the report management window

Click the **Reports** button located in the navigation bar. This will open the report management window allowing you to view, print and create new reports.

nVision has several pre-defined basic reports. The administrator can also create their own reports, depending on their needs.

Viewing and printing reports

To prepare a report for a host, map, user or group:

- 1. Select report type. There are different report types defined for a host, map, user and group.
- 2. Select a host/user or a map/group (depending on the choice you made in the previous step).
- 3. Select the report on the left side bar.
- 4. Select the time period of the report.
- 5. Click the **Prepare and show report** button. This button is displayed only when this report has never been prepared. Once it is ready, it will show automatically when you define the same options. It may only need an update if the data has changed (i.e. if the report included the current day).
- 6. After the report is prepared, you can print it by clicking the **Print** button located on the report toolbar.

13.2 Creating reports

Axence nVision® very easily allows creating new reports. You just construct them by selecting several predefined segments. Segments are data collectors, which collect data gathered by nVision and process it to present it in grids and on charts.

To create your own report:

- 1. Open the report management window by clicking the **Reports** button located in the navigation bar.
- 2. Select the Host, Map, User or Group item which defines the type of report to be created.
- 3. Select the category in which you would like the report to be created.
- 4. Click the **New report** button located in the bottom part of the window.

Avence nVision 11		
Capacita MSL packages Brint har Assets	ication categories age templates igure license type igure license type igure license type Addit Begors and alerts BataGuard BataGuard	¢. Option
Devices Users Assets	All devices (Atlas) List (238) Agents (2) Hardware History	
Q Search (Ctrl+F)	Reports – 🗆 🗙	
All devices (Atlas) > NETWORKS → at 5.5.0.0/16 → at 9.0.0.0/8 → 1	Generate report for: Map Limit devices to: Time range: IIII IIIII IIIIIII IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	ofile Jse map Jse map
- d. 172.17.208.112/28 2 - d. 192.168.0.0/16 2 1 117 - d. 192.168.40.0/24 2 2 - d. 192.168.40.0/24 13 - d. 192.168.50.0/24 6 - d. 192.168.60.0/24 27 - d. 192.168.62.0/24 7 - d. Bornbita 2	In order to generate the report: Changes history Devices software list Mozilla Top to rankings audyt audyt audyt Do audyt odpowr qwee	
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	Qreate new report Automatic reports Qlose	

- 5. Enter the report name and description.
- 6. Add a new segment by clicking the ^O button located on the left side.
- 7. Enter the segment name and select segment type. Refer to the <u>Segment types for hosts</u> or <u>Segment types for maps</u> or <u>I topic for more information</u>.
- 8. Enter appropriate options as described in the <u>Segment types for hosts</u> or <u>Segment types for</u> <u>maps</u> [571] topic.
- 9. Enter short and long descriptions. These descriptions will be shown above and below the segment on the report, respectively.

13.3 Segment types for host reports

This topic describes different host report segment types and defines their properties (if required).

Headers

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Report header

Header with report details. This should be the first segment of every report.

Services

5 Services - general information

Lists all host services with the most important performance information.

⁵ Service performance chart

Presents charts with the response time and percent of packets lost of the selected or all services.

Property	Description
Generate for specific service	The chart will be generated only for the specified service. If it is not available on the host, then this segment will not be generated.
Generate for all services	The chart will be generated for every service available on the host.
Data presentation	Data may be presented in a normal way, distributed by hours of the day or by days of the week.
Show as	 Defines how the chart will look like: Service response time chart (default) – specialized chart designed to show response time and percent of lost packets on one chart.
	Line chart
	• Table.

5 Service think time

Presents the chart of service response compared to ping response.

Same properties as described in the table above.

^{fo} Services – up/down time

Time when services are up and down.

Counters

Performance counters

List of all performance counters for a given host.

Performance counter chart

Presents a chart of counter values over time.

Property	Description
Counter	The chart will be generated for the selected counter. If it is not available on the host, then this segment will not be generated.
Data presentation	Data may be presented in a normal way, distributed by hours of the day or by days of the week.
Show as	Defines how the chart will look like: Line chart Area chart Vertical bar chart Table

Table.

Interface bandwidth

Shows bandwidth on every interface. May be presented in a table or multi-line chart.

Host counters list

Demonstrates a list of all counters for a particular host.

Total time of counter state or value

Property	Description
Counter	The chart will be generated for the selected counter.
Show as	Defines how the chart will look like:
	Pie chart
	• Table.

Min/max/avg uninterruptible counter state or value

This segment presents minimal, maximal and average uninterruptible counter state or value.

Services and counters

Distribution of range values

Presents a range of values for the selected counter or service.

Property	Description
Data source	Optional: counter or service.
Data ranges	To add a new range, click the ^① button, give the title of the created range and provide boundary values.
Show as	Defines how the chart will look like: • Vertical bar chart • Pie chart
	• Table.

Alerts

붤 Most frequent events

A list of events sorted by their frequency.

Property	Description
Limit listing to <i>x</i> first events	Use this option if you want to constrain the list of events presented in the report.
Show as	 Defines how the chart will look like: Horizontal bar chart Vertical bar chart Pie chart Table.

🔥 Event log

Presents all event log entries for the selected time range.

Number of alerts over time	
Property	Description
Data source	This segment may contain all events or one, selected from the list of events.
Data presentation	Data may be presented in a normal way, distributed by hours of the day or by days of the week.
Show as	Defines how the chart will look like: Line chart Table.

Total time of alert activeness / inactiveness

Presents the total time when the selected alert was active.

Min/max/avg event / no event time

Property	Description
Data source	This segment may contain all events or one, selected from the list of events.
Calculate data for	The time of alert activeness or inactiveness may be calculated.

Nindows event log

Presents a list of entries in the Windows Event Log for selected hosts.

User monitoring

Printout audit

Presents information about printed documents: not grouped or grouped by user, host or printer, sorted in the selected way.

률 Bandwidth usage

Property	Description
Display	What type of information will be presented:
	Map / Atlas summary

Property	Description
	Host details
	Users ranking
	Hosts ranking
Sort by	Data may be sorted according to connections:
	• with Internet, in
	• with Internet, out
	• local, in
	local, out
Ranking settings	In order to obtain information about groups of protocols select option Show protocol groups details .

Inventory

💐 Changes in installed applications and hardware

Presents a list of changes in installed applications and hardware. May include add, remove and change operations for selected groups.

Rardware configuration

Hardware configuration may be presented in two ways – with selected view or selected columns. Available views enable presentation of overview information, multimedia, drives and other.

💐 Host(s) software list

Property	Description
Show	Select the type of software that will be included in the report (software, updates, drivers).
License type	Software with the selected license type will be presented.
Show serial numbers	Select if you want serial numbers to be presented in the report.
Show licenses	Select if you want licenses to be presented in the report.

💐 Applications on hosts

Lists all hosts with installed applications, drivers and updates with selected license types.

Property	Description
Show	Select the type of software that will be included in the report

Property	Description
	(software, updates, drivers).
License type	Software with the selected license type will be presented.

💐 Fixed assets list

Presents a list of all fixed assets for Map/Atlas.

Property	Description
Show	Select types of assets that will be included in this segment.
Show common fields	Common fields are: value, in maintenance, in warehouse, person responsible and inventory number.
Show type-specific fields	If marked, fields existing only for specific types will be presented.
Group by	 Fixed assets may be grouped by: (None) Asset type Belongs to Name.



Presents a list of all fixed assets for selected host(s).

💐 Host's customs files list

Presents list of all Custom Files found on host(s)

Property	Description
Mask	Check this box if you want to search files that match to a given mask.
Size	You can set a minimum and maximum size of files.
Category	 You can choose one or more out of the following options: Audio Video Graphic Other files.
ls legal	Shows result only for legal/illegal files.

System information

Presents a list of startup commands, network shares or task schedule for specific hosts.

Others



Table presenting all hosts status changes over time.



Host up/down time

Percent of host up/downtime.

Property	Description
Show as	Defines how the data will be presented:
	Horizontal bar chart
	Vertical bar chart
	Pie chart
	• Table.

💟 General host info

General information about the selected host.



Port mapper table.

DataGuard

DataGuard audit

Presents information about operations performed on protected files. Data may be presented for a specified user or device. The following operations may be included: device connected, device disconnected, file created, file renamed, file deleted, file written.



DataGuard known devices

List of devices used in network.

13.4 Segment types for map reports

This topic describes different map report segment types and defines their properties (if required).

Headers

Report header

Header with report details. This should be the first segment of every report.

Services

5 Services - general information

Lists all host services with the most important performance information.

⁵ Best/worst hosts by service performance

Lists hosts with the shortest or the longest response time.

Property	Description
Service	Select a service on the basis of which the devices will be compared. If a device does not have the selected service, it will not be included for comparison.
Sort by percentage of lost packets	The results will be sorted by the percentage of lost packets instead of response time.
Show the best devices	Select this option if you want to see the best devices (with the shortest response time or the lowest percentage of lost packets).
Show the worst devices	Select this option if you want to see the worst devices.
Limit the list	Select this option if you want to limit the number of devices displayed.
Show as	 Determines how the segment will be presented: Horizontal bar chart Vertical bar chart Table.

⁵ Service performance chart

Presents charts with the response time and percent of packets lost of the selected or all services.

Axence nVision Help

Property	Description
Generate for specific service	The chart will be generated only for the specified service. If it is not available on the host, then this segment will not be generated.
Generate for all services	The chart will be generated for every service available on the host.
Show as	 Defines how the chart will look like: Service response time chart (default) – specialized chart designed to show response time and percent of lost packets on one chart.
	Line chart
	• Table.

5 Service think time

Presents the chart of service response compared to ping response.

Same properties as described in the table above.

⁵ Services – up/down time

Time when services are up and down.

Counters

Performance counters

List of all performance counters for a given host.

Performance counter chart

Presents a chart of counter values over time.

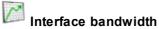
Property	Description
Counter	The chart will be generated for the selected counter. If it is not available on the host, then this segment will not be generated.
Show as	Defines how the chart will look like: • Line chart • Area chart • Vertical bar chart • Table.

Best/worst hosts by the performance counter

Lists hosts with the best or the worst performance.

	•
Property	Description
Performance counter	Select the performance counter on the basis of which the devices will be compared. If a device does not have a chosen performance counter, it will not be included for comparison.
Show the best devices	Select this option if you want to see a list of the best devices (with the lowest value of the performance counter).
Show the worst devices	Select this option if you want to see a list of the worst devices.
Limit the list	Enable this option if you want to limit the number of devices presented in the list.
Show as	Determines how the segment will be presented:Horizontal bar chartVertical bar chart
	Table.

1001



Shows bandwidth on every interface. May be presented in a table or multi-line chart.

Host counters list

Demonstrates a list of all counters for a particular host.

Total time of counter state or value

Property	Description
Counter	The chart will be generated for the selected counter.
Show as	Defines how the chart will look like:
	Pie chart
	• Table.



Min/max/avg uninterruptible counter state or value

This segment presents minimal, maximal and average uninterruptible counter state or value.

Most/least available hosts by specific counter state or value

This segment presents the most/least available hosts by a specific counter state or value.

Most/least available hosts by longest uninterruptible counter state or value

This segment presents the best/worst hosts. You can also limit list length to first *x* applications.

Services and counters

Distribution of range values

Presents a range of values for the selected counter or service.

Property	Description
Data source	Optional: counter or service.
Data ranges	To add a new range, click the ^① button, give the title of the created range and provide boundary values.
Show as	Defines how the chart will look like:
	Vertical bar chart
	Pie chart
	• Table.

Alerts

Best/worst hosts by the number of events

Presents the most or least problematic hosts by the number of alerts.

Property	Description
Generate for all events	Compares the devices in terms of the number of occurrences of all events.
Generate for the selected event	Compares the devices in terms of the occurrences of the selected event.
Show the best devices	Select this option if you want to see the best devices (with the smallest number of events)
Show the worst devices	Select this option if you want to see the worst devices (with the most number of alarms).
Limit to	Enable this option if you want to limit the number of devices presented.

Property	Description
Show as	Determines how the segment will be presented:
	Horizontal bar chart
	Vertical bar chart
	• Table.

Most frequent events

A list of events sorted by their frequency.

Property	Description
Limit listing to <i>x</i> first events	Use this option if you want to constrain the list of events presented in the report.
Show as	Defines how the chart will look like:
	Horizontal bar chart
	Vertical bar chart
	Pie chart
	• Table.



Presents all event log entries for the selected time range.

Number of alerts over time

Property	Description
Data source	This segment may contain all events or one, selected from the list of events.
Data presentation	Data may be presented in a normal way, distributed by hours of the day or by days of the week.
Show as	Defines how the chart will look like: Line chart Table.

Total time of alert activeness / inactiveness

Presents the total time when the selected alert was active.

Min/max/avg event / no event time	
Property	Description
Data source	This segment may contain all events or one, selected from the list of events.
Calculate data for	The time of alert activeness or inactiveness may be calculated.

Nindows event log

Presents a list of entries in the Windows Event Log for selected hosts.

User monitoring



Presents information about printed documents: not grouped or grouped by user, host or printer, sorted in the selected way.

💕 Bandwidth usage

Property	Description
Display	 What type of information will be presented: Map / Atlas summary Host details Users ranking
	Hosts ranking
Sort by	 Data may be sorted according to connections: with Internet, in with Internet, out local, in local, out
Ranking settings	In order to obtain information about groups of protocols select option Show protocol groups details .

Inventory

💐 Software inventory audit

Presents a list of installed applications.

Property	Description
Show	Defines the type of software that will be included in the report: only the applications and OSs, or also the updates the drivers.
License	Use the list to select the license types that will be included in the report.
License compliance	Select: • all • with assigned licenses • without assigned licenses • license number sufficient or redundant

• license number deficit

💐 Changes in installed applications and hardware

Presents a list of changes in installed applications and hardware. May include add, remove and change operations for selected groups.

💐 Hardware configuration

Hardware configuration may be presented in two ways – with selected view or selected columns. Available views enable presentation of overview information, multimedia, drives and other.

💐 Host(s) software list

Property	Description
Show	Select the type of software that will be included in the report (software, updates, drivers).
License type	Software with the selected license type will be presented.
Show serial numbers	Select if you want serial numbers to be presented in the report.
Show licenses	Select if you want licenses to be presented in the report.

Cop installed applications	
Property	Description
Limit listing to	You can limit list length to first <i>x</i> applications.
Show	Select the type of software that will be included in the report (software, updates, drivers).
License type	Software with the selected license type will be presented.

💐 Hosts with applications installed

Hosts which (optionally) have or do not have the selected applications installed are shown. A list of selected applications is shown in the lower part of the window. To add an application, click it and press the ^① button. To remove an application from the list, click it and press the ^Î button.

💐 Applications on hosts

Lists all hosts with installed applications, drivers and updates with selected license types.

Property	Description
Show	Select the type of software that will be included in the report (software, updates, drivers).
License type	Software with the selected license type will be presented.

💐 Fixed assets list

Presents a list of all fixed assets for Map/Atlas.

Property	Description
Show	Select the types of fixed assets that will be included in the report.
Group by	Fixed assets may be grouped by: • (None) • Asset type • Belongs to • Name.

💐 Host's fixed assets list

Presents a list of all fixed assets for selected host(s).

💐 Host's customs files list

Presents list of all Custom Files found on host(s)

Property	Description
Mask	Check this box if you want to search files that match to a given mask.
Size	You can set a minimum and maximum size of files.
Category	 You can choose one or more out of the following options: Audio Video Graphic Other files.
ls legal	Shows result only for legal/illegal files.

💐 System information

Presents a list of startup commands, network shares or task schedule for specific hosts.

Others

💟 Host status timeline

Table presenting all hosts status changes over time.

🖤 Host up/down time

Percent of host up/downtime.

Property	Description
Show as	What type of information will be presented:
	Horizontal bar chart
	Vertical bar chart
	Pie chart
	• Table.



General information about the selected host. You can select the type of hosts and additional information to be displayed:

- addresses and interfaces
- SNMP information
- monitoring
- monitoring time
- alerts.



Port mapper table.



Presents a graphical view of the map.

Maps' uptime summary

This segment shows the total number of devices whose uptime value is in between the ranges you define. Ranges points are defined by clicking the ^O Add point button.

Example

Adding points 10, 50 and 90 results in creating four intervals:

- 1. Uptime >= 0% and < 10%
- 2. Uptime >= 10% and < 50%
- 3. Uptime >= 50% and < 90%
- 4. Uptime >= 90% and <=100%

DataGuard

DataGuard audit

Presents information about operations performed on protected files. Data may be presented for a specified user or device. The following operations may be included: device connected, device disconnected, file created, file renamed, file deleted, file written.

DataGuard known devices

List of devices used in network.

13.5 Segment types for user reports

The following chapter describes the types of segments in user reports and their properties (if necessary).

User monitoring



Presents general information about the user's work time. The user activity report can be displayed as a separate segment for each user or as an overview list.



Presents a list of websites visited by users on a host. You may narrow down the list to websites that match a given mask.

🗳 Websites ranking

Shows a ranking of visited websites with the possibility to limit the list to x first websites. Data may be sorted by the total time or the number of visits.



Breaks in work time

Presents a list of breaks in work time for the selected host.



Application usage timeline

Presents the timeline of application usage by users.



Presents the summary application usage for the selected Map/Atlas or host.

💕 Bandwidth usage

Description
What type of information will be presented:
Map / Atlas summary
Host details
Users ranking
Hosts ranking

Property	Description		
Sort by	Data may be sorted according to connections:		
	• with Internet, in		
	• with Internet, out		
	• local, in		
	local, out		
Ranking settings	In order to obtain information about groups of protocols select option Show protocol groups details .		



Presents a list of e-mails sent or received by users.

Summary of e-mails

Presents summary information about e-mails. E-mails can be sorted by sent, received and size.

률 Printout audit

Presents information about printed documents: not grouped or grouped by user, host or printer, sorted in the selected way.

Printing costs

This segment shows information about print cost.

Ser configuration

Presents the monitoring or blocking configuration for the user.

DataGuard

DataGuard access rights

Presents the information about access rights to DataGuard devices.

13.6 Segment types for group reports

The following chapter describes the types of segments in user group reports and their properties (if necessary).

User monitoring

률 User activity

Presents general information about the user's work time. The user activity report can be displayed as a separate segment for each user or as an overview list.

yisited websites

Presents a list of websites visited by users on a host. You may narrow down the list to websites that match a given mask.

🗳 Websites ranking

Shows a ranking of visited websites with the possibility to limit the list to x first websites. Data may be sorted by the total time or the number of visits.

Freaks in work time

Presents a list of breaks in work time for the selected host.

Application usage timeline

Presents the timeline of application usage by users.

Summary application usage

Presents the summary application usage for the selected Map/Atlas or host.

扩 Bandwidth usage

Property	Description
Display	What type of information will be presented:
	• Map / Atlas summary
	Host details
	Users ranking
	Hosts ranking
Sort by	Data may be sorted according to connections:
	• with Internet, in
	• with Internet, out

Property	Description
	• local, in
	• local, out
Ranking settings	In order to obtain information about groups of protocols select option Show protocol groups details .

🗳 Website visitors ranking

Presents the ranking of website visitors.

Property	Description
Show ranking for selected option	Select this option if you want to display the ranking for websites matching the mask specified below.
Display	Select: hosts or users which visited the given website.
Limit listing to <i>x</i> first web sites	Use this option if you want to constrain the list of websites presented in the report.
Sort by	Data can be sorted by:the total timethe number of visits.



Property	Description
Application group	Information will be displayed for the selected groups of applications:
	 instant messengers,
	web browsers
	text editors
	• e-mail
	programming
	multimedia.
Executable file	Use the list to select the executable file the running of which is to be included in the segment.
Sort by	Data can be sorted by:
	• users
	application usage time
	application run time.

Reports 585

Property	Description
Limit listing to <i>x</i> first records	Use this option if you want to constrain the list presented in the report.

FApplication usage time statistics

Presents the application usage time statistics for the map.

Property	Description		
Application group	Information will be displayed for the selected groups of applications:		
	 instant messengers, 		
	web browsers		
	text editors		
	• e-mail		
	programming		
	multimedia.		
Executable file	Use the list to select the executable file the running of which is to be included in the segment.		

F List of e-mails

Presents a list of e-mails sent or received by users.

Summary of e-mails

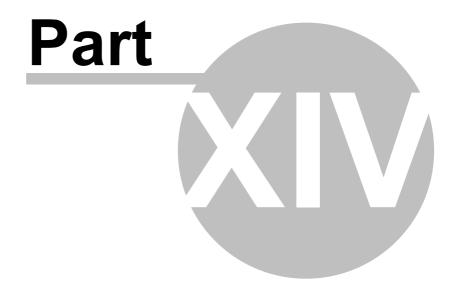
Presents summary information about e-mails. E-mails can be sorted by sent, received and size.

Printout audit

Presents information about printed documents: not grouped or grouped by user, host or printer, sorted in the selected way.

🗳 Printing costs

This segment shows information about print cost.



14 Alerting

14.1 Introduction

This part describes how to use the alerting policies available in nVision. With alerting you can be notified in case of any problems in your network. When a host stops responding, when a service has a slower response or when some applications are having problems, nVision may send you a message, show the information on the screen, or even run a corrective action.

How it works

First, you have to define a set of events. The example of such an event is when a host stops responding. nVision will constantly monitor all hosts to check if any of the defined events took place on them. In our example the event will be raised when all services running on the host do not respond.

Now, we have an event but what should the program do with this event? We need to define a set of actions which can be run in case of the event happening. When events and actions are defined, then we can set alerts. The alert defines which actions should be executed if a specific event takes place.

All raised alerts are logged in the database so you could prepare reports about your network performance. If you would like to collect the information about a specific event, but you don't want any actions to be executed, then you need to define an alert with this event but with no actions. It will tell nVision to just collect those events to the database.

Let's summarize the process of setting the alert:

- 1. Create an event. The occurrence of such event will trigger an alert. Examples of events: host down, service performance problem, web page load time over a threshold, etc.
- Create notification and corrective actions. You should create actions to be run when an event occurs. Example of actions: sending an e-mail or ICQ message, running an external application, restarting of Windows service, etc. This step is optional - you can create the alert without any action.
- 3. Create an alert. The alert defines which actions should be executed when a specific event occurs. When an alert is raised then the information about the event which triggered this alert will be stored to the program's event log. Such information will be stored even if the alert has no actions.

14.2 Concepts

This topic discusses concepts related to alerting.

Event

nVision constantly monitors your network, all hosts and services. As you can imagine – it can detect when a specific service slows down or stops responding at all. It will also detect when a whole host stops responding. For such situations you can define an event to be raised. Every event has its beginning and end time. For example in case of the host-not-responding event, the end will be when the host starts to respond. So with nVision you know not only when an event starts, but also when it ends. What's more, you can see a list of started events. For the purpose of this manual we call such events (that started and have not ended) open events.

You can also define your own events: let's say that you have to monitor an MSSQL Server. Then it's not enough to know how fast it responds to a simple request. You will most likely want to monitor several performance counters describing its current status to be able to react before any critical situation occurs.

For example, when free RAM memory is low or in case of cache performance degradation. Such events can be raised before any unrecoverable error allowing you to correct this situation quickly and prevent any data or productivity loss it might cause.

All raised events are logged in the program's event log. This allows making analyses of your network performance, for example to prepare reports showing the most problematic hosts or a report of the most frequent events.

Host status

Unlike in other similar products, host status in NVision is a calculated value, not a hard coded one. So you can define conditions when a host is considered to have status Up, Down or Warning. For more information about host status refer to Host status concept for topic.

Action

You can define two general types of actions: notification and corrective. When an event occurs, nVision uses the action mechanism to notify the administrator about the problem or to run any external program to correct it. So before you define alerts, you need to define a set of actions which will be used to notify you.

You can define such actions as: e-mail, ICQ, pager or SMS message, sounds, dialog box and running an external program. For a complete list of available action types please read <u>Action Types</u> [607] topic.

Alerts

Alert defines the program behavior in case of any network problems. First you select when the alert should be triggered - i.e. upon detecting a certain event. You also have to define which hosts should be checked for event occurrence. It can be defined directly for the host or at the atlas/map level. In such case the alert will be triggered if the event is raised on any host contained in the object for which an alert is defined (i.e. atlas, map or any descendant map).

14.3 Managing alerts

14.3.1 Requirements

To manage alerts, you have to familiarize yourself with several concepts first. You need to know what are events and actions. Before you start with alert management, please read at least the topic <u>Concepts</u>, which discusses these issues.

Prerequisites

To begin managing alerts, you have to define a set of events first. Events tell nVision in which situation the alert should be raised. For example, after installation there is a predefined event: "Host down". It describes the event when the host stops responding. You should define events for all possible problematic situations you want to monitor.

After events are defined you will probably want to define some notification actions. Actions describe what nVision should do when an event is raised. For example an action may define how to notify you with an e-mail. However, it is possible to define alerts without actions - it is sometimes useful when you only need the information about an event for future reports and you don't need any notification.

After the above steps are done, you can start managing alerts. Please refer to the following topics describing available functions.

Where we can define alerts

Alerts can be defined on several levels of the atlas. First, we can define global alerts for the whole atlas. Such alerts will be inherited by all hosts in the atlas, which means that such alert conditions will be checked for every host and it can be raised on any host (if it meets the criteria defined in the alert; for example, an alert defined to be valid only for important hosts will not be raised on hosts with importance set to low).

Alerts can be also defined for each map. In this case, such alerts are inherited by all hosts on this map and also by all descendant maps in the atlas tree. And finally, alerts can be defined for each host.

You have then several ways of setting alerts to configure proper alerting based on the importance of your hosts, network, services, etc. Keep in mind that alerts are inherited from parent objects to descendants. Refer to Inherited alerts [553] topic for more information.

14.3.2 Alert management window

To setup the program to notify you in case of any problems you use the alert manager window. This and the following topics provide more information on how to manage alerts.

Opening alert management window

With this window you can list, modify, create and remove alerts. To open this window, follow these steps.

- 1. Select the object for which you want to manage alerts. It can be any host, atlas or a map. In case you selected an atlas or a map, the alerts influence all hosts contained by those objects. Please read more about this in the topic Inherited Alerts [593].
- 2. Select **Alerts** from the context menu.

To manage alerts for a specific host, navigate to the Host info window and click Configure:

DESKTOP-NO(IP. 192.168.0.108 DNS: D	ESKTOP-N0QNHI1	Axence nVision A		note access	*	HTTP ●		vice status ARNING 18.03.2020 13:29:0
GENERAL	PERFORMANCE AND	RESOURCES						
PERFORMANCE	CPU		RAM				Total time	Session time
HARDWARE	18% Model: AMD Ryzer	1 5 2600 Six-Core Proces	Total: 4,00 64% Used: 2,56 Free: 1,44	GB		Up time Ok Warning	15d 3h 9d 10h 5d 16h 2d 17h	2h 20m 0s 2h 20m 54s
SOFTWARE	System disk		S.M.A.R.T. Status			Down	2017	545
SASSETS	45% Total: 49, Used: 22, Free: 27,	06 GB	-					
FILES		50 65				Open alerts: 0) View I	Configure
SNMP	Basic information:							
WINDOWS	Device name:	DESKTOP-N0QNHI1		Role:	Server	Router		
EVENTS	Importance:	 Normal 	-	Info 1:	WORKGROUP			
	Department:		▼ Clear ▼	Info 2:				
	Visualization style:	<map default="" style=""></map>	▼ Edit ▼	Notes:				^
	Type:	Windows 10	✓ Manage					
	Enable monitoring	(services, counters, SNMP,	port mapper, windows)					
	Monitor if this device	is up:						
					<			>
			··· Clear		`			-

Creating new alert or modifying existing ones

- 1. Open the alert management window for the object where you want to create an alert.
- 2. Click the ^① Add alert button to create a new alert or select the existing alert and click the ^[] Edit alert button.
- In the For the event field, select the event for which you would like this alert. If the event is not defined yet, you can define it by clicking on the New button located on the right side. For more information about managing events, refer to the Managing Events [597] topic.
- 4. The **Execute following actions** field allows you to add actions that will be run during the alert.

To add an action, click the ⁽⁾ icon located on the left side of the action list. The **Action** window will display. Define action properties as follows:

Property	Description
Execute action	Select the action to run. If the action is not defined yet, you can define it by clicking on the New button located on the right side. For more information about managing actions, refer to the Managing Actions for topic.
"When" group	
Immediately on event start	This is the default option meaning the action will be executed immediately the event is raised.

Property	Description
After	Select "After" option and enter the number of minutes the program has to wait before the action is executed. Please remember that if the event ends before this time, the action will not be executed.
On event end	Sometimes we need a notification when the problematic situation ends. You can use this option to be notified for example when an important host starts to respond after it has been down.
Time restriction	In this field you can define time limits when the action may be executed. It is often necessary when you want to setup different notification schemes for your work time and home time. For example the program can send just an e-mail when you are at the office and send a pager notification when you are at home (where you might not be able to read your mail).
Repeat action every	Allows you to setup actions which will be executed repetitively until the event ends. Enter the number of minutes you would like to repeat the action.

- 5. The last step allows you to restrict this alert to the specific host type and importance. This is helpful when you would like to setup a global alert for the whole atlas, but you don't want it to be raised for less important hosts administrators usually don't care that the user's workstation has been turned off, but they want to know when a server goes down.
 - a) Select host type in the "Type" field.
 - b) Check all appropriate boxes next to the "Importance" label to limit an alert to hosts with such importance only.
- 6. Please be sure to check the "Alert enabled" box. If unchecked, the alert will not be active.

Note

• Modifying inherited alerts may affect other hosts, so proceed with caution.

Removing the alert

- 1. Open the alert management window for the object where you want to remove an alert.
- 2. Select the alert on the list.
- 3. Click the Remove alert button located in the toolbar. Please remember that you can't remove inherited alerts (such alerts can be removed at the level where they have been defined).

Disabling or enabling the alert

- 1. Open the alert management window for the object where you want to disable or enable an alert.
- 2. Select the alert and click the button.
- 3. To disable the alert, uncheck the **Alert enabled** box. To enable it, you have to make sure that this field is checked.

Filtering inherited alerts off

- 1. Open the alert management window for the object where you want to disable inherited alerts.
- 2. Check **Don't inherit alerts** if you don't want the inherited alerts to be generated for the selected object. If this box is currently checked and you would like to use alerts inheriting, just uncheck it.

14.3.3 Inherited alerts

As you know from previous topics, you can define an alert for the whole atlas and for the map - not only for one host. If the alert is defined for the whole atlas, then it is valid for all maps and all hosts meeting defined host type criteria (except those objects where inheritance is turned off). Read the Managing <u>alerts</u> topic to find out how to filter out inherited alerts. Inherited alerts are those alerts that have been defined elsewhere, but we see them on the list of the currently selected host or map.

Similarly, alerts defined for a map will be inherited by all maps which are descendants of this map. Descendant maps are those which names appear under the selected map name. You can hide or expand the whole tree of descendant maps using the \blacksquare icon next to the map name.

Let's see an example of the atlas tree:

N Axence nVisi	ion 11			
Main Too	ols Abour	t nVision		
	il packages manager	Print bar codes Invent	Assets settings tory	App R Mar
Devices	Users	Asse	ts	
Q Search (Ctrl-	+F)			
 All devices (▶ NETWORKS ▲ 5.5.0.0/1 ▲ 9.0.0.0/8 ▲ 87.98.0.0 ▲ 87.98.0.0 ▲ 172.17.20 ▲ 192.168.3 ▲ 192.168.3 ▲ 192.168.3 ▲ 192.168.3 ▲ 192.168.3 ▲ 192.168.3 ▲ 192.168.4 	6 (16 = 1) (16 = 1) 08.112/28 = 0.0/16 = 2 30.0/24 = 40.0/24 = 50.0/24 = 50.0/24 = 50.0/24 = 52.0/24 = 59.0/24 =	2 13 6 27 2	17	
CUSTOM M	APS			
DEPARTME	NTS			
SMARTMAR	PS			

Filtering inherited alerts off

If you don't want alerts from higher level objects to be inherited, then you can filter them out. You can do that for every map and host independently.

- 1. Open the alert managing window for a map or a host.
- 2. Check **Don't inherit alerts** if you don't want the inherited alerts to be generated for the selected object. If this checkbox is currently checked and you would like to use alerts inheritance, just uncheck it.

14.3.4 Alert escalation

For especially important events you can use the alert escalation mechanism. It will trigger several actions for an event in predefined periods of time. For example, the first action can be run upon alert

start, the next one after 30 minutes and this action can be repeated every hour until the alert ends. When the event ends, another action can be run.

With this mechanism you can be sure that critical situations will be handled fast by the appropriate network administrator and in case that this administrator cannot deal with the problem, then another notification to a different person can be sent to avoid unhandled problems.

For information on how to setup actions to be run at different times and how to setup action repetitions, refer to <u>Managing Actions</u> topic.

14.4 Events

14.4.1 Configuration

To manage events, you have to familiarize yourself with the event concept first so please read the topic <u>Concepts</u>, which discusses this issue.

Before you begin setting up alerts you need to define all events you would like to monitor. The program will monitor all hosts with the appropriate alert defined for an occurrence of defined alerts. When the event is detected then nVision takes two steps:

- Generate all alerts based on this event. This will also cause the execution of actions defined in those alerts. Please remember that delayed actions may never be executed – it happens when an event ends before the action has been executed. Actions scheduled to run immediately on event start and on event end will be executed always (unless the program has been shut down).
- 2. The event is logged in the program event log. This allows performing future analyses of the host and network performance and helps preparing reports. To read about how to see events generated, read the topic Event log [617].

When the problematic situation ends the event is also ended and it causes all actions scheduled to run upon event end to be executed.

Severity

Each event has defined a severity, which is designed for informational purposes. When notified, you will see the severity of the alert, which will help you to react faster to important ones.

Host status

Unlike in other similar products, host status in nVision is a calculated value, not a hard coded one. So you can define conditions when a host is considered to have status $\langle Up \rangle$, $\langle Down \rangle$ or $\langle Warning \rangle$. For more information about host status refer to <u>Host status concept</u> [52] topic.

14.4.2 Event types

There are several general groups of events. The following list describes them:

Event	Description
Host and service availability	
Host down	None of the host services is responding.
Service down	The host service (HTTP, FTP etc.) is not responding.

Event	Description
Service performance	Raised when a service experience unusual slow down or too many request/packets is lost.
Interface down	Generated when any interface changes its status to down.
Host status change	Can be generated for any host status change, even when a host changes a status from "Down" to "Up".
New host found	The event will be generated when the new host is found and added to the map.
Specific service test	
Web page load	With this event you can test your web page load time.
Web page content change rate	Allows preventing accidental changes to your web page content (i.e. changed by hackers).
POP3 login time	Raised when there is a problem logging to the mail server.
Send mail time	Checks for any problems while sending an e-mail message.
Counters	
SNMP threshold	You can check for a specific counter value. An event can be generated when this value rises too high (over a defined threshold) and when it falls too low.
Windows threshold	As above, for Windows system and Windows application counters. Allows monitoring health of programs like SQL Server or Exchange Server.
Windows	
New entry in Windows Event Log	Event informing about the occurrence of a new Windows Event Log entry. Entries can be filtered.
Windows service status change	Raised whenever the nVision discovers any changes to the windows service status. You can use it to monitor important services on remote machines and restart them in case of any problems.
Inventory	
System information change	Notifies about changes in startup commands, network shares, and S.M.A.R.T. status.
Software inventory change	Notifies about any program installation/uninstallation.
Hardware inventory change	Notifies about any hardware changes on all computers, where the inventory is being collected.
Users	

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Event	Description
User visited domains from selected group	Generates the event when user visits specified domains.
User printed pages over the limit	Generates the event when user prints more than x pages (daily).
User used bandwidth over the limit	Generates the event when user downloads or uploads more than x MB (daily).
Other	
Time schedule	Generates the event within specified schedule (on specific days of week at specific time).
Agent status	Generates the event if Agent is not connected more than x days.
SNMP trap	Event informing about the received SNMP Trap message.
SysLog Message	Event informing about the received SysLog Message.
Change on switch ports	The event is generated if a device is connected, disconnected or its port has changed.
DataGuard	
Mobile device connected or disconnected	The event is generated if a device is connected or disconnected. You can define device types to be taken into account.
File operation on mobile device	Generates an event when following file operations are detected on a mobile device: file created, file deleted, file renamed, file written to existing file. You can specify additional conditions for the event (file mask).

14.4.3 Managing events

To setup alerting, first you have to define all problematic situations when an alert is to be raised.

Opening event management window

With this window you can list, modify, create and remove events. To open this window, select the **Tools** and options tab, and then select **Manage events** from the main menu.

Creating new event

- 1. Open the event management window.
- 2. Click the ^{CD} Add event button located in the toolbar. The Event definition wizard will open.
- 3. Enter the name of the event you would like to create in the **Event name** field.
- 4. Select the host status for this event in the **Host status field. This field determines the status of the host when the event is** raised Read more about host status in the topic Events
- 5. Select the severity of the event in the **Severity** field. This field is for informational purposes and it helps creating reports.

- 6. Select the event type on the list. To read more about event types, please read Event types set topic.
- 7. Click the Next button,
- 8. Now you have to configure the event options (depending on the event type you selected). This is described in detail in the topic <u>Defining event properties</u> [599].
- 9. Click the **Finish** button.

Modifying existing event

- 1. Open the event management window.
- 2. Select the existing event and click the *Edit event* button. The **Event definition wizard** will open.
- 3. Now you have to configure the event options (depending on the event type you selected). This is described in detail in the topic <u>Defining event properties</u>
- 4. Click the Finish button.

14.4.4 Defining event properties

This topic describes defining the properties of different event types.

😼 Host and service availability

Host down

This event is raised when every service on the host is not responding. You have to decide the way nVision determines the host is down. It can depend on number of minutes it does not respond or number of polls. This event will be monitored on every host that monitors at least one service.

Property	Description
Specified number of polls	Check this option if you want the event to be raised after all host services polls fail a specified number of times (with timeout).
	Enter the number of failed polls in the edit box after which the event will be raised and the host status will change to down.
Specified number of minutes	Check this option if you want the event to be raised after all host services polls fail during specified number of minutes (with timeout). Please remember that this period is measured since last successful poll. If it will be smaller than the monitoring time, you may get false alerts between every host poll.
	Enter the number of minutes in the edit box after which the event will be raised and the host status will change to down.

Service down

This event is raised when a specific service is not responding. You have to decide the way nVision determines the service is down. It can depend on number of minutes it does not respond or number of polls.

Property	Description
Service	Select the service you want to monitor. This event will be monitored on every host that actually monitors the selected service.
Specified number of polls	Check this option if you want the event to be raised after the specified number of service polls fail (with timeout). Enter the number of failed polls in the edit box after which the event will be raised.
Specified number of minutes	Check this option if you want the event to be raised after services polls fail during a specified number of minutes (with timeout). Please remember that this period is measured since the last successful poll. If it will be smaller than the monitoring time, you may get false alerts between every service poll.

Property	Description
	Enter the number of minutes in the edit box after which the event will be raised.
Service performance	
Raised when a service experiences unusual slow down or too many requests/packets are lost.	
Property	Description

Property	Description
Service	Select the service you want to monitor. This event will be monitored on every host that actually monitors the selected service.
Check last	The number of last minutes you would like to be checked.
Generate event when	Check at least one of the condition check boxes described below. If you check both then the event will be generated if at least one of the conditions is met.
Average/Each response time	 Check Average response time if you would like an event to be generated whenever a service experiences any slowdown. nVision checks an average value as a default. You can change it to check every value by clicking on the Average label. The label text changes to Each then to indicate that every probe will be checked separately. Enter the response time threshold in milliseconds. The event will be generated when the response time is higher than this value. Enter the reset threshold in the next field. Please read the Rising, falling and reset thresholds.
Lost packets percentage	 Check Lost packets percentage if you would like an event to be generated when the number of lost requests is too high. Enter the threshold value. The event will be generated when the percent of packets lost is higher than this value.

• Enter the reset threshold in the next field.

Interface down

This event will be generated (started) when any network interface goes down and it will end when the interface status is up again.

Host status change

Can be generated for any host status change, even when a host changes a status from "Down" to "Up". This event will be monitored on every host.

Property	Description
Generate event when	Select the status for which you would like an event to be raised. You can have an event raised whenever a host status changes to "Up", "Warning" or "Down". Just select the required option.

New host found

The event will be generated when the new host is found and added to the map.

Specific service test

Web page load

With this event you can test your web page load time. This event will be monitored on every host that actually monitors any page load (has such counter defined).

Property	Description
Check last	The number of last minutes you would like to be checked.
Generate event when	 nVision checks an average value as a default. You can change it to check every value by clicking on the Average label. The label text changes to Each then to indicate that every probe will be checked separately.
	• Enter the page load time threshold in milliseconds. The event will be generated when the page load time is higher than this value.
End event when	Enter the reset threshold in the next field. Please read the <u>Rising, falling and reset thresholds</u> for topic for more information about thresholds.

Web page content change rate

Allows preventing accidental changes to your web page content (i.e. changed by hackers). It will be raised whenever the probe discovers that the percent of page content has changed over the threshold. This event will be monitored on every host that actually monitors any page content change (has such counter defined).

Property	Description
Check last	The number of last minutes you would like to be checked.
Average page content change rate	 nVision checks an average value as a default. However, you can change it to check every value by clicking on the Average label. The label text changes to Each then to indicate that every probe will be checked separately.
	• Enter the page load time threshold in milliseconds. The event will be generated when the page load time is higher than this value.

Property	Description
End event when	The event will end when the page content returns to the (more) original and the percentage of change drops under the reset threshold.

POP3 login time

Raised when there is a problem logging to the mail server. This event will be monitored on every host that actually monitors any POP3 login time (has such counter defined).

Property	Description
Check last	The number of last minutes you would like to be checked.
Average POP3 login time	 nVision checks an average value as a default. You can change it to check every value by clicking on the Average label. The label text changes to Each then to indicate that every probe will be checked separately.
	• Enter the POP3 login time threshold in milliseconds. The event will be generated when the page load time is higher than this value.
End event when	Enter the reset threshold in the next field. Please read the <u>Rising, falling and reset thresholds</u> and topic for more information about thresholds.

Send mail time

Checks for any problems while sending an e-mail message. This event will be monitored on every host that actually monitors any send mail time (has such counter defined).

Property	Description
Check last	The number of last minutes you would like to be checked.
Average send mail time	 nVision checks an average value as a default. You can change it to check every value by clicking on the Average label. The label text changes to Each then to indicate that every probe will be checked separately. Enter the POP3 login time threshold in milliseconds. The event will be generated when the page load time is higher than this value.
End event when	Enter the reset threshold in the next field. Please read the <u>Rising, falling and reset thresholds</u> for for more information about thresholds.

🚾 Counters

SNMP threshold

Property	Description
Counter	Select the SNMP counter to be checked. Please remember that such counter will be checked only on hosts which actually monitor such counter. So to have the event properly working you have to setup such counter on every host.
Check last	The number of last minutes you would like to be checked.
Average value	 nVision checks an average value as a default. You can change it to check every value by clicking on the Average label. The label text changes to Each then to indicate that every probe will be checked separately.
	• Enter the POP3 login time threshold in milliseconds. The event will be generated when the page load time is higher than this value.
End event when	Enter the reset threshold in the next field. Please read the <u>Rising, falling and reset thresholds</u> for topic for more information about thresholds.

Note

• Please note that setting long time periods to check may slow the program down. If the counter is polled very often then many probes are collected and checking all of them consumes CPU. Do not set this period to more than 10 minutes for hosts that are polled more often than every 10 seconds.

Windows threshold

Property	Description
Counter	Select Windows counter to be checked. Please remember that such counter will be checked only on hosts which actually monitor such counter. So to have the event properly working you have to setup such counter on every host
Check last	The number of last minutes you would like to be checked.
Average value	• nVision checks an average value as a default. You can change it to check every value by clicking on the Average label. The label text changes to Each then to indicate that every probe will be checked separately.

Property	Description
	• Enter the POP3 login time threshold in milliseconds. The event will be generated when the page load time is higher than this value.
End event when	Enter the reset threshold in the next field. Please read the <u>Rising. falling and reset thresholds</u> for for more information about thresholds.

Note

• Please note that setting long time periods to check may slow the program down. If the counter is polled very often then many probes are collected and checking all of them consumes CPU. Do not set this period to more than 10 minutes for hosts that are polled more often than every 10 seconds.

💐 Windows

Windows service status change

Property	Description
Generate event when	Select the appropriate option when this event should be generated: when the service stops, pauses and/or starts.
All services	Select to generate this event for all Windows services.
Selected services	Select this option to monitor only one specific Windows service.
	Click the green plus icon and select the services to be monitored.

New entry in Windows Event Log

This event will be generated when a new Windows Event Log entry meets the filter.

🐣 Other

Change on switch ports

Property	Description
Generate event when	The event is generated if a device is connected, disconnected or its port has changed.
Only for new devices connected to the switch	Select to generate this event for new devices only.

SNMP trap	
Property	Description
MIB filter	Event will be triggered if the device sends a SNMP trap related to any OID or only to the selected OID.
Time schedule	
Property	Description
Time schedule	The event is generated on specific days and at specific time as defined by the administrator.
SysLog Message	
Property	Description
SysLog Message	The event is generated when the host sends SysLog message containing keywords specified in the filter set on configuration.
Agent status	
Property	Description
Agent status	The event is generated if Agent is not connected for a specific number of days.

한 DataGuard

Mobile device connected or disconnected

Property	Description
Generate event when	The event is generated if a device is connected or disconnected.
Generate this event for specified devices type	Select the types of devices for which the event is generated.

File operation on mobile device

Property	Description
Generate event when	The event is generated if a file is created, deleted, renamed or written to existing file.
Specify additional conditions for the event	Provide a file mask if necessary.

Property

Description

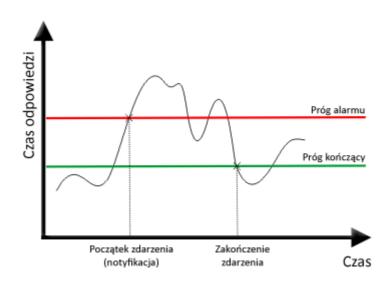
Generate this event for Select the types of devices for which the event is generated. specified devices type

14.4.5 Rising, falling and reset thresholds

In most events, you define a threshold value, which indicates when an event should start. For example – in case of service it defines how slow a service can be before it triggers an event.

In case of some event types you also have to define the "reset" threshold for the event. This is important – otherwise an alert would be generated every time the condition is met. That could cause the same alert to be repeated every minute. The measured value must first fall below the reset threshold before the next alert is generated.

The red line indicates the alert threshold. When the response time or packet loss rate rises above this threshold, an alert will be generated. But for the next alert to be generated, this value must fall below the reset threshold. This prevents repeated alerts for the same event.



Rising and falling thresholds

The threshold discussed above is called rising, because it is generated when a measured value rises above it. But you can also define an event when a value should stay above a threshold. Then an event is generated when this value falls under a threshold and such threshold is called falling.

Note

• The reset threshold may not be higher than the alert threshold for rising thresholds and lower for falling thresholds.

14.5 Actions

14.5.1 Introduction

In most cases when you define an event you want to be notified when it occurs or you would like to set a corrective action to be executed. nVision allows you to create both types of actions: notification and

corrective. So before you define alerts, you need to define a set of actions which will be used to notify you.

You can define such actions as: e-mail, ICQ, pager or SMS message, sounds, dialog box and running an external program. For a complete list of available action types please read the <u>Action Types</u> [107] topic.

14.5.2 Action types

There are several general groups of actions. The following list describes them:

	· _
Action	Description
Desktop notification	
Desktop alert	A small information box will show at the defined position. This box does not steal the focus and it does not disturb you in your current task.
Sound	nVision will play a defined sound.
Speech	This allows alert information to be read by the computer speech synthesis engine.
Send message	
E-mail	An e-mail with alert information will be sent (you can enter multiple addresses separated by semicolon (";")).
ICQ	An ICQ message with alert information will be sent.
SMS via GSM	This action sends an SMS message via an attached GSM phone or modem.
SysLog Message	The SysLog message will be sent to the specified SysLog server.
Program or script	
Run program locally	With this option you can run any program on the local machine, for example to take some corrective action.
Run program remotely	With this option you can run any program on a remote machine, for example to take some corrective action.
Other	
Write to file	The alert information can be written to the file.
Send SNMP Trap	Sending of SNMP Trap message.
Send Wake On LAN packet	Sending of the packet turning on/waking up the selected device.
Windows	
Start/Stop Windows service	It controls the service on the remote Windows workstation.
Shutdown/restart computer	This action allows you to shutdown or restart the remote Windows workstation.

Action	Description
Add entry to Windows Event	Creates an entry to Windows Event Log on a local or remote
Log	machine with Windows system.

14.5.3 Managing actions

To setup nVision so that it notifies you, you have first to define all possible notification actions you would like to use. The following topics provide more information on how to manage actions:

Opening action management window

With this window you can list, modify, create and remove actions. To open this window, select **Tools** / **Manage actions** from the main menu.

Creating new action or modifying existing one

- 1. Open the action management window.
- 2. Click the [•] Add action button to create a new action or select an existing one and click the *Edit action button.* The Action definition wizard will open.
- 3. If you are creating a new action, then enter its name in the **Action name** field and select the action type on the list. Click the **Next** button, To read more about action types, refer to the <u>Action types</u> and topic.
- 4. Configure the action options (depending on the action type you selected). This is described in detail in the topic Defining action properties 608.
- 5. At this point it may be necessary to define action setup options. These options are required to properly execute some actions (for example the program needs a mail server address to send an e-mail notification or a COM port to which the GSM is connected). Setting up the action is discussed in the topic <u>Setting up actions</u> [614].
- 6. If all options are configured you can test the action by clicking the **Test** button. This will perform the action and you can verify if it is properly defined and working.
- 7. Click the Finish button.

14.5.4 Defining action properties

This topic describes defining properties of different action types.

Desktop notification

Desktop alert

A small information box will show at the defined position. This box does not steal the focus and it does not disturb you in your current task.

Property	Description
Message	Allows you to select the message format which will be displayed in the box.

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Property	Description
Auto	Select it to display the predefined message.
Custom	Select to define your own message. To read more about defining your own messages, please go to the topic <u>Defining</u> custom alert messages area.

Sound

The program will play a defined sound.

Property	Description
nVision predefined sound	Select one of the predefined nVision sounds.
Windows system sound	Select one of the predefined Windows sounds.
Select file	Click the 🛄 icon and select the sound file to be played.

Speech

This allows alert information to be read by the computer speech synthesis engine.

Property	Description
Message	Allows you to select the message format which will be read by the speech engine.
Auto	Select it to display the predefined message.
Custom	Select to define your own message. To read more about defining your own messages, please go to the topic <u>Defining</u> custom alert messages at

🟓 Send message

E-mail

An e-mail with alert information will be sent.

Property	Description
Email to	The e-mail address to which the alert message will be sent. You can enter several e-mail addresses dividing them by commas, semicolons or spaces.
Subject	The subject of e-mail message. In the subject you can use variables described in the <u>Defining custom alert messages</u> [615] topic.
Message format	Allows you to select the message format which will be used to generate alert message.
HTML	This is the default message format.

Property	Description
Short text	This is text only format with short information.
Long text	This is text only format with complete alert information.
XML	This is the alert information in XML format. You can use this if you would like to build your own external alert actions. Your program may receive e-mails with XML information, interpret them and do some additional tasks.
Custom	Select to define your own message. To read more about defining your own messages, please go to the topic <u>Defining</u> custom alert messages as

ICQ

The ICQ message with an alert information will be sent.

Property	Description
ICQ number	The ICQ number to which the alert message will be sent.
Message format	Allows you to select the message format which will be used to generate alert message.
Custom	Select to define your own message. To read more about defining your own messages, please go to the topic <u>Defining</u> custom alert messages states.

SMS via GSM

This action sends an SMS message via an attached GSM phone or modem.

Property	Description
Phone number	The phone number to which the SMS message will be sent. It must start with a country code prefix (+1 for US).
Alert message	Check if you want the message to be presented on the phone screen immediately upon arrival.
Auto	This is the default message format.
Custom	Select to define your own message. To read more about defining your own messages, please go to the topic <u>Defining</u> custom alert messages at the second seco

SysLog Message

The SysLog message will be sent to the specified SysLog server.

Property	Description
SysLog server address	The address of the SysLog server.
Syslog server port	The port on which the server operates.

Property	Description
Message	Define your message in the edit box. To read more about defining your own messages please refer to the topic <u>Defining</u> <u>custom alert messages</u> [615].

🛸 Program or script

Run program locally

With this option you can run any program on the local machine, for example to take some corrective action.

Property	Description
Run the program	Click the ⊡ icon and select the program to be run.
With parameters	Enter the parameters of the execution. You can use variables described in the <u>Defining custom alert messages</u> [615] topic.

Run program remotely

With this option you can copy and run any other program remotely, for example to take some corrective action.

Property	Description
Copy local program to a remote host and run	Selecting this option causes both actions: copying and running a program.
	Click the button and select the source file of the local program to be run. Then, select the destination directory on the remote host.
Run remote program	Click the ⊡ button and select the remote program to be run.

실 Other

Write to file

The alert information can be written to a file.

Property	Description
Write to file	Click the ⊡ button and select the file name where the alert message will be written.
Message format	Allows you to select the message format which will be used to generate the alert message.
HTML	This is the default message format.
Short text	This is text only format with short information.

Property	Description
Long text	This is text only format with complete alert information.
XML	This is the alert information in XML format. You can use this if you would like to build your own external alert actions. Your program may receive e-mails with XML information, interpret them and do some additional tasks.
Custom	Select to define your own message in the edit box. To read more about defining your own messages, please go to the topic <u>Defining custom alert messages</u> [615].

Send SNMP Trap

Sends a SNMP Trap to a remote device.

Property	Description
Host Name	DNS name or IP address of the remote device.
Port	UDP port number of the remote device.
Community	SNMP community name.
PDU type	PDU packet header type.
Agent	IP address of SNMP Agent.
Trap generic	Type of SNMP Trap.
Notification ID	It is required if Service type is defined as "enterpriseSpecific".

Send Wake On LAN packet

Sends Wake On LAN packet to the remote device.

Property	Description
Use host address	Identification is performed based on the IP and MAC addresses of the device.
MAC Address	Target device address in the following notation AA:BB:CC:DD:EE:FF.
Local Broadcast Address	Target address of the Wake On LAN packet.
Port	UDP port number of the remote device.
SecureOn password	SecureOn password of the remote device in hexadecimal notation, e.g. AA:BB:CC:DD:EE:FF.

💐 Windows

Start/Stop Windows service

It controls the service on the remote Windows workstation.

Property	Description
Windows service, which has triggered the event	Check if you want this action to be performed on the host and service for which the event is generated.
Specific windows service	Select if you want the action to be executed on a specific Windows computer and for a specific service.
Host	Select the host on which the action is to be executed.
Service	Select the service.
Action	Select the action to perform: you can start, stop, restart, pause and resume the Windows service.

Shutdown/restart computer

This action allows you to shutdown or restart the remote Windows workstation.

Property	Description
Host, which the event has occurred on	Check if you want this action to be performed on the host for which the event is generated.
Specific host	Select if you want the action to be executed on a specific Windows computer.
Restart	Check to perform system restart.
Shutdown	Check to perform system shutdown.

Add entry to Windows Event Log

This action allows you to write an entry to Windows Event Log of the selected host.

Property	Description
Host, which the event has occurred on	Check if you want this action to be performed on the host for which the event is generated.
Specific host	Select if you want the action to be executed on a specific Windows computer.
Message type	Select a message type (Success, Error, Warning or Information).

14.5.5 Setting up actions

Most actions require setup options to be defined before the program is able to execute them. For example the program needs a mail server address to send an e-mail notification, etc. This topic describes defining properties of each action type setup (some action types do not require setup).

The action setup may be edited in the program options window and during creation of an action or when editing its properties.

Desktop notification

Desktop alert

A small information box will show at the defined position. This box does not steal the focus and it does not disturb you in your current task.

Property	Description
Position	The position in which the information box will display on the desktop
Duration	Duration in seconds for how long the box will show.
Fade	Check this option if you want the information box to fade.

Speech

This allows alert information to be read by the computer speech synthesis engine.

Property	Description
Speech engine	The speech engine you want to be used.
Voice speed	Speed of the voice.

🟓 Send message

E-mail

An e-mail with alert information will be sent.

Property	Description
Reply to address	If this address is not set properly or blank most mail servers will reject an e-mail. Enter the e-mail address, which you know will be accepted by the mail server (your e-mail address most likely).
Connection	Set the timeout, the number and delay of retries.
Use external SMTP server	nVision uses its own built-in mail server. But you can use any external one. Just check this option and define the following properties.

Property	Description
Address	The address of the external mail server.
Port	The port number on which the external mail server is operating.
Authorization required	If the server requires authorization, then check the appropriate box and enter your username and password in the Username/Password fields respectively.
User name	Username required to login.
Password	Password required to login.

ICQ

The ICQ message with an alert information will be sent.

Property	Description
ICQ server	ICQ server address.
Port	The port number on which the server is operating.
UIN	The UIN nVision will use to login to the server.
Password	Password required to login.

SMS via GSM

This action sends an SMS message via an attached GSM phone or modem.

Property	Description
COM port settings	Select a COM port, a baud rate, data bits, parity and stop bits.
SMS settings	Check the appropriate option for splitting long messages and for a custom service center number (SMSC).
Device information	Press the Detect device button to see its manufacturer and model.

14.5.6 Defining custom alert messages

When defining alert notification options, you can also define your custom messages to be used as information to be sent/saved. nVision allows you to use several variable names, which are changed to the appropriate value when an alert is raised. This topic lists those variables and describes how to use them.

Variables

Variable name	Description
\$Host.Name	Name of the host for which the alert is generated.

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Variable name	Description
\$Host.Type	Type of the host. To read more about host type or other host related variables defined here, check the topic Host properties.
\$Host.Importance	Host importance. See the topic Host properties.
\$Host.Status	Host status. It defines the status of the host in the moment when the alert message is composed. In case of delayed actions this status may be different than the status at the alert start.
\$Host.Info1	Host Info1 field. See the topic Host properties.
\$Host.Info2	Host Info2 field. See the topic Host properties.
\$Host.ParentHost	Host's parent host. See the topic Host properties.
\$Host.SNMPManagable	The information if the host is SNMP manageable. See the topic Host properties.
\$Host.SNMPSystem	The system description of the host read using SNMP. See the topic Host properties.
\$Host.SNMPLocation	The location of the host read using SNMP. See the topic Host properties.
\$Host.SNMPName	The name of the host read using SNMP. See the topic Host properties.
\$Alert.Name	Name of the alert - it is the name of the event that triggered the alert.
\$Alert.Description	Short description of the event.
\$Alert.Type	The type of the event. See the topic Event types $[595]$ for more information.
\$Alert.Severity	Severity of the event which triggered the alert.
\$Alert.StartTime	The time when an alert has been raised.
\$Alert.Duration	The duration of the alert.
\$Alert.Resolution	Current resolution status of this alert.
\$Alert.Owner	The owner of the alert.

How to use variables

When the program allows you to define your own message format, then you will be able to use variables.

You can just enter the variable name in the text of the message or you can use the [•] button. Click this button to get a list of available variables and select one. Then the variable name will be inserted in the text of the message in the cursor position.

14.6 Raised alerts

14.6.1 Processing alerts

How nVision processes alerts

In most network monitoring products, you can only define conditions to indicate when an alert is to be raised, but do not get any information about how long such conditions have existed. Also, you usually cannot setup actions to be executed when such conditions are no longer valid. In nVision, every alert raised has a start time and an end time. When the event conditions are met, nVision raises an alert. Then the program continually checks if such conditions are still valid and ends the alert when they are not. It means that you can see the start and end times of every alert along with its duration.

When an alert is raised, then it is called an open alert and the status of such alert is set to <Open>. It remains open until the conditions that caused it to be raised are not longer true, or if the condition required to end this alert is not yet true. After all conditions required to end the alert are met, nVision ends it and changes its status to <Closed>. It indicates not only that the alert ended, but that the event (that triggered this alert) also ended.

How actions are executed

When an alert is raised, all actions related to it and scheduled for immediate execution are started. All other actions set as delayed will be executed only if the alert is still open (i.e. raised). When an alert ends, the action being executed also ends. You can also stop action execution for currently open alerts by setting **Alert resolution**.

Every alert is raised with the Resolution set to "New". If you want to indicate that the alert notification has been successful and you are aware of the alert, then you must acknowledge the alert. To do that, just set alert resolution in nVision's Event Log to "Acknowledged". Similarly, when the problem causing an alert has been solved, then you can stop further actions by setting alert resolution to "Resolved". In general, changing the alert resolution has the effect of stopping the execution of remaining actions.

14.6.2 Event log

All raised alerts are logged by nVision and you can view them in the Event Log. There is a list of all raised alerts along with the action execution log for every alert. You can change the Alert resolution status and view alerts sorted by several fields and also filter them to see only the alerts that are interesting to you.

Icons used in the Alert & Action grids

 Icon
 Description

 Status - idicates the status of the alert

 Image: Imag

Icon	Description
	New alert
ACB	The alert has been acknowledged by the administrator and no more actions will be executed.
V	The alert has been resolved by the administrator and no more actions will be executed.
Event ty	pe – type of the event that raised the alert
2	Host & service availability
\$	Specific service test
~	Counter
Event se	verity – severity of the event that raised the alert
\bigcirc	Low severity
\bigcirc	Normal severity
0	Important severity
0	Critical severity
Host stat	tus change
	Up
5	Warning
8	Down
Action gri	d
Icon	Description
Type – t	ype of the action
	Desktop alert
\$	Message
۹.	Program or script
4	Others
Status –	indicates the status of the action
٢	Not executed yet
٥	Action is currently being executed
Ø	Successfully executed

Icon Description

Execution failed (see Info column for a problem explanation)

Opening Event Log window

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You can see alerts for a selected host only or for the entire atlas. To view the Event Log for atlas, select **Event Log** from the Reports and Alerts section. To view the Event Log for a single host, navigate to the **Host info** window and then to the **Events** tab.

Clearing Alerts (changing alert resolution)

To clear an alert, you have to change its Resolution to "Acknowledged" or "Resolved".

- 1. Select an alert or several alerts.
- 2. Select Acknowledge or Resolve from the context menu.

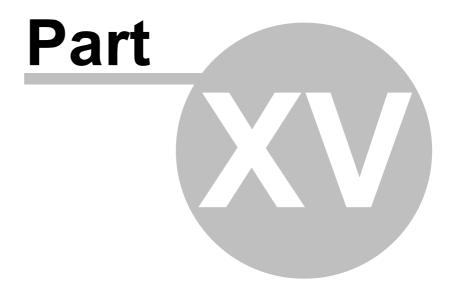
For more information about alert resolution refer to the <u>Raised alerts</u> topic.

Sorting & filtering

- You can sort both grids by any column just by clicking on the column header.
- You can filter events by status and resolution. To view only those alerts that have specific status/resolution, just select the appropriate entry in the **Filter** field.

Changing time period

You can view events for one day, week or a month. To select the time period, use the toolbar. To scroll through past alerts in the Event Log, use the arrows located on the toolbar. When scrolling, you will always see the current time range of presented alerts.



15 Web access

15.1 How to get access to nVision via Web browser?

To allow access to nVision via a Web browser (in read-only mode), first enable the Web access in the nVision application:

nv Opt	ions				×
e.	GENERAL	SERVICE CONFIGURATION Configure the status and parameter	rs of services		
٩	MONITORING	WebAccess Console	_		
ار	ACTIONS	Service status: Port number:	8080 🗘		
R	SERVICE CONFIGURATION	HelpDesk & SmartTime HelpDesk service status:			
Э	MAINTENANCE	SmartTime service status:			
×,	BLOCKADE MESSAGES	Port number: Encryption:	8081 🗘	•	
2 _{III}	USER ACTIVITY	URL:	http://localhost:8081		
=	INVENTORY	API Server Service status:	~		
0	HELPDESK	Port number.	8082 🛟		
				<u>0</u> k	<u>C</u> ancel

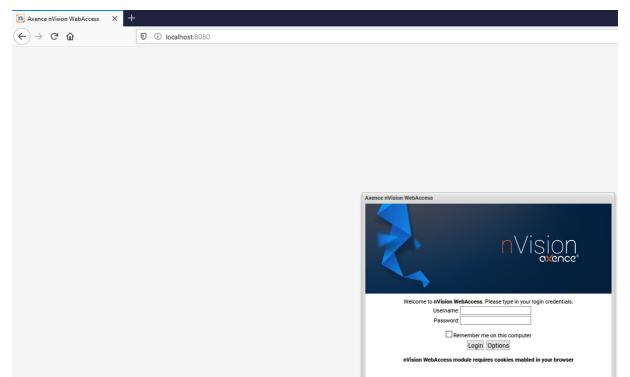
- 1. Select the **Options** icon in the main toolbar of nVision.
- 2. Navigate to the Service configuration tab, and then mark the **Enable Web access** option and enter the port number through which the Web Access will operate.

Warning! If Web access wasn't enabled prior to upgrading to nVision 14, it is no longer available.

Browser access

When the Web Access is toggled on in the manner described above, it is possible to use nVision by means of a Web browser. For this purpose, enter the IP address and port number of the machine running nVision in the browser address bar and then, after connecting to the access module, enter the user name and password to log in to nVision. Please notice that the Web Access is read-only, so no changes to nVision can be made through it.

The option of optimization for weaker machines (login window, **Options** button) allows the operation of the nVision Web Access module on slower computers, but increases bandwidth usage.



15.2 How to create Web Access user accounts?

It is possible to add multiple users who will have access to selected functionalities of nVision. To make this possible, their accounts should be properly configured. Please notice that the Web Access is readonly, so no changes to nVision can be made through it.

Web Access is enabled automatically for users of the **Administrator** type and may be enabled for users of the **HelpDesk** type. It is not possible for other user types to have Web Access.

Administrator users

Users of the Administrator type have access to all maps and devices, and also to reports, audit and access log.

HelpDesk users

The access rights to specific maps are defined for the HelpDesk user accounts:

- If the given map has no defined right, a default right is set for the given map.
- Users do not have access to audit, reports and the event log (the latter is visible only in device details, the global event log is not visible). The above-mentioned options are hidden for the users.
- The map for which the user has no "Map View" access right is not displayed in the atlas tree.

Access rights

Access rights	Required rights	Description
Map View		Displaying the given map in the atlas tree. Allows all devices with the given map to be seen.
Host Info	Map View	Access to all device details (services, counter, user activity, inventory, etc.).
Remote access		Ability to get remote access (VNC) to the devices from the given map.

Assign tickets

To create the Web Access user account:

- 1. For a new user: create a new HelpDesk user account. Click the **Users** button and press the ^① **Add** button; give the user name, the role (Help-Desk) and the password. Go to number 3.
- 2. For an existing user: click the **Users** button, and then right click the selected account and select the **User info** option.
- In the Access rights tab, you can edit default rights and add rights for selected departments and maps.

rv User: Mikuz			-	• ×
Account: MIKU@WIN10 R	Creat	ite announcement	User logged on: n/a Status: Waiting for data	
GENERAL GENERAL HI ACTIVITY SCREENSHOTS SCREENSHOTS SOFTWARE EVENTS DATAGUARD	ACCESS TO MODULES AND FEATURES Console Network Networ			
BLOCKADES SETTINGS Germissions	Access to devices Image: Second S			

To learn more about user accounts, see section User management 3621.

15.3 Window layout

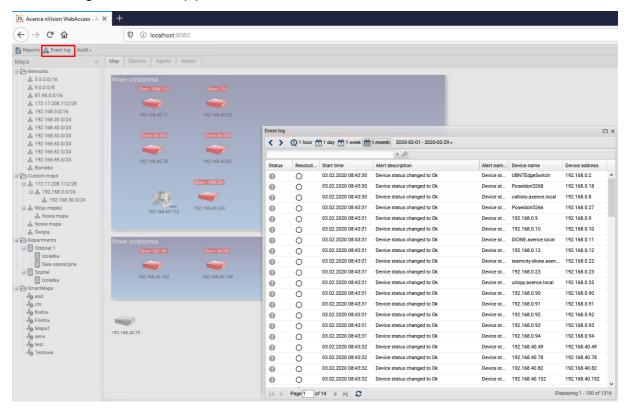
Atlas tree

Atlas tree located in the top left part of the window contains the list of all available networks, user maps, departments and smart maps. When the map is selected in the tree, it is displayed on the right. You can resize the atlas tree column width and also minimize it.

Axence nVision WebAccess - A									- a
-)→ ଫ ŵ	Iocalhost:8080							… ⊠ ☆	lii\ 🖸 🌒
Reports 🛕 Event log 🛛 Audit +									🚫 HelpDesk 🍙 L
	Map Devices Agents Assets								
Networks 5.5.0.0/16	Name	Туре	MAC Address	Primary IP	Primary DNS	Services	Last poll time	Last response time Info 1/2	
A 9.0.0.0/8	PIOTRF-PC axence.local, 192.168.40.172	Windows 8.1	6045CBA72A9B	192.168.40.172				•	
A 87.98.0.0/16	<u></u> 192.168.40.11	Network Device	08002792180E	192.168.40.11		PING	Today 12:10:54	26.07.2019 00:53:52	
山 172.17.208.112/28 山 192.168.0.0/16	— 192.168.40.25	Network Device	F46D04025E1A	192.168.40.25		PING MSSQL HTTPS RDP		19.03.2020 11:43:29	
- A 192.168.30.0/24	— 192.168.40.78	Network Device	6045CBA68C0B	192.168.40.78		PING NetBIOS (TCP) HTTP		23.03.2020 16:04:04	
- 击 192.168.40.0/24 - 击 192.168.50.0/24	— 192.168.40.82	Network Device	448A5B8EAFFF	192.168.40.82		PING SMB3 SMB2 RDP Ne		23.03.2020 16:00:16	
192.168.60.0/24	— 192.168.40.152	Network Device	AC220B503210	192.168.40.152		PING NetBIOS (TCP) RDP S		23.03.2020 16:00:15	
A 192.168.62.0/24	— 192.168.40.205	Network Device	847BEB0411A8	192.168.40.205		PING NetBLOS (TCP) SMB2		21.10.2019 16:24:45	
- 192.168.69.0/24	192.168.40.229	Network Device	6045CBA68874	192.168.40.229		PING SMTP SMB2 SMB3 F		21.10.2019 17:07:46	
Custom maps	192.168.40.243	Network Device	080027D21C6F	192.168.40.243		PING	Today 12:10:54	21.10.2019 15:16:54	
∃ ₼ 172.17.208.112/28	192.168.40.138	Network Device		192.168.40.138		PING RDP PostgreSQL NetB	Today 12:11:00	23.03.2020 16:00:18	
	192.168.40.176	Network Device		192.168.40.176		RDP NetBLOS (TCP) SMB3 S	5MB2 PIN Today 12:11:00	23.03.2020 16:00:17	
🗄 🚠 Moja mapka	192.168.40.102	Network Device		192.168.40.102		NetBLOS (TCP) RDP PING S	MB3 SMB Today 12:10:59	13.03.2020 16:48:31	
A Nowa mapa	192.168.40.254	Network Device		192.168.40.254		NetBIOS (TCP) PING RDP S	MB3 SMB Today 12:10:34	21.10.2019 14:47:44	
A Święta	192.168.40.200	Network Device		192.168.40.200		PING	Today 12:10:59	21.02.2020 14:22:36	
Departments	im 192.168.40.73	Network Device	00155DD98115	192.168.40.73					
a des operacijne a des operacijne a statute b Tarutate b Tarutates d o and d									
ent log Q 1 hour 11 1 day 11 atus Resoluti Start time	1 week (11) 1 month 2020-03-30 (12-13) - Alert description				Alert name			Device name	e Device address
4 Page1 of 1 ⇒ ⇒]	c								No data to d

Event log

The event log bar (bottom part of the window) allows recent alerts to be checked quickly. The field where the events are presented can be resized or minimized. To open the event log in a separate frame, click the **Event log** button in the top part of the window.



Мар

The tab contains a graphical presentation of the map selected in the atlas tree.

Hosts

The tab presents the list of devices belonging to the selected map.

Agents

The tab presents a list of devices with installed Agents. Among others, the basic stats and awaiting commands are displayed.

Fixed assets

The tab presents a list of all fixed assets.

15.4 Audit

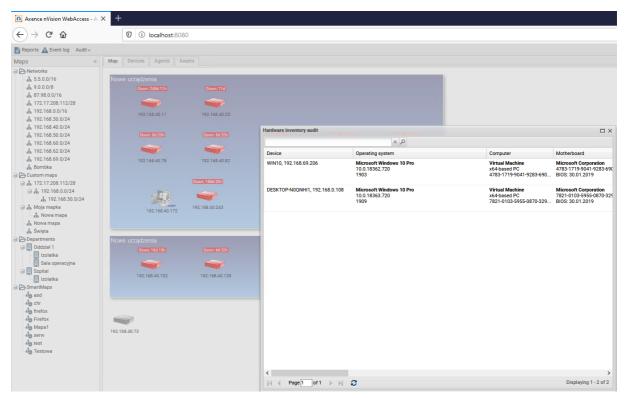
Axence nVision® automatically collects information on the hardware configuration of each machine with the Windows operating system and on the installed software.

Hardware

Hardware inventory allows the devices in the monitored networks to be controlled. The view displays information on the hardware configuration of all monitored devices – from the operating system to CPUs, displays and many others to local printers.

To view the hardware configuration of monitored devices:

- 1. Click the **Audit** button in the top part of the window.
- 2. Select the Inventory option.
- 3. To find the required entries more quickly, use the search feature in the top part of the window.
- 4. To change the number of displayed columns, sorting or grouping methods, expand the menu at the column headers.



Inventory history

The tab contains information on the changes of hardware and software for all monitored devices.

To view the inventory history:

- Click the Market Audit button in the top part of the window.
- 2. Select the Inventory history option.
- 3. To find the required entries more quickly, use the search feature in the top part of the window.

4. To change the number of displayed columns, sorting or grouping methods, expand the menu at the column headers.

< → ୯ ŵ	Iccalhost:808	80		
🖹 Reports 🛕 Event log 🛛 Audit 🗸				
Maps «	Map Devices Agents A	ssets		
▲ 5.5.0./16 ▲ 5.5.0./16 ▲ 9.0.0./8 ▲ 87.98.0.0/16 ▲ 172.17.208.112/28 ▲ 192.168.0.0/16 ▲ 192.168.0.0/24	Nowe urządzenia Down:248411h	Down: 11d		
- A 192.168.40.0/24 - A 192.168.50.0/24	Down: 6d 20h		Invenotry history	
晶 192.168.60.0/24	~			
- 192.168.62.0/24			Date Operation	Туре
- 🚠 192.168.69.0/24	192.168.40.78	192.168.40.82	EI DESKTOP-NOONHI1, 192,168.0.108	
Custom maps		Down: 160d 20h	24.03.2020 14:20:01 Computer's DNS name on the interface 192.168.0.108 has been changed. Added: DESKTOP-NOQN	HI1
∃ ♣ 192.168.0.0/24 ♣ 192.168.30.0/24	81	-	24.03.2020 14:20:01 C Agent 2:0.4:28748 has connected from IP address 192.168.0.108	
由 Moja mapka 品 Nowa mapa 品 Nowa mapa	192.168.40.172	192.168.40.243	24.03.2020 14:23:59 Detected Security Update (KB4516115) application	6
∴ Święta ⇒ Departments	Nowe urządzenia		24.03.2020 14:23:59 O Detected Axence nVision application	6
Gddział 1	Down: 16d 19h		24.03.2020 14:23:59 Detected Update (KB4532938) application	6
🔄 🛄 Sala operacyjna	192,168,40,102	192.168.40.136	24.03.2020 14:23:59 Detected Update (KB4528760) application	6
SmartMaps			24.03.2020 14:23:59 Detected Security Update (KB4528759) application	6
no aso no chr no firefox			24.03.2020 14:23:59 O Detected Axence nVision Agent application	6
Firefox Mapa1			24.03.2020 14:23:59 O Detected Windows 10 Pro application	1
- no serw - no test	192.168.40.73		24.03.2020 14:24:00 Otected Internet Explorer application	1
do Testowa			24.03.2020 14:24:00 Otelected Update (KB4517245) application	
			24.03.2020 14:24:00	1
			4 4 Page 1 of 20 ▶ ▶ 2	Displaying 1 - 100 of 200

Software inventory audit

Software inventory allows the applications installed on the monitored user machines to be controlled. There are three categories of entries: audited applications (licensed software recognized by nVision and subject to auditing), non-audited applications (software recognized by nVision, not requiring licensing and not subject to auditing) and unknown applications (detected by nVision, but without a determined fingerprint).

In the case of audited applications, the information on the license type, number of instances within the monitored network and the number of owned licenses is displayed. The data are used to calculate the licensing compliance, which is visually presented and any surplus or missing licenses are highlighted.

To view the software inventory audit:

- 1. Click the Audit button in the top part of the window.
- 2. Select the Software option.
- 3. To find the required entries more quickly, use the search feature in the top part of the window.
- 4. To change the number of displayed columns, sorting or grouping methods, expand the menu at the column headers.

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<) → ୯ ŵ	🛈 🛈 localhost:8080							
Reports 🛕 Event log 🛛 Audit 🗸								
Maps «	Map Devices Agents Asse	ets						
Retworks								
L 5.5.0.0/16	Nowe urządzenia							
h 9.0.0.0/8	Down: 248d 11h							
A 87.98.0.0/16	Contraction of the second							
A 172.17.208.112/28								
击 192.168.0.0/16	192.168.40.11							
h 192.168.30.0/24	192.108.40.11	192.108.40.20						
h 192.168.40.0/24		Software inventory audit						
h 192.168.50.0/24	Down: 6d 20h	Dev a statistic inventory addit						
h 192.168.60.0/24			×P					
h 192.168.62.0/24		Application	Version	License	Installations	Owned	License compliance	
L 192.168.69.0/24	192.168.40.78	192						
da Bombka		Audited applications						î
Custom maps		9 7-Zip 19.00 (x64)	19		1	5	Redundancy (4 spare license(s))	
⊟ ▲ 172.17.208.112/28		Igor Pavlov					-	
🖃 晶 192.168.0.0/24	100	Axence nVision	11.0	license not assigned>	2	0	Deficit (2 license(s) missing)	
h 192.168.30.0/24	81	Axence Inc.		-			•	
🖃 🚠 Moja mapka	192,168,40,172	192.168.4	73		1	5	Redundancy (4 spare license(s))	
👍 Nowa mapa		Mozilla Firefox 73.0.1 (x86 pl)					(+ spare licelise(s))	- 1
👍 Nowa mapa			2	license not assigned>	1	0	@	
🚠 Święta		Axence nVision Agent	2	cicense not assigned>	1	U	① Deficit (1 license(s) missing)	
Departments	Nowe urządzenia						-	
🖃 🕎 Oddział 1	Down: 16d 19h	🔤 🗳 Security Update (KB4498523)		license not assigned>	1	0	Deficit (1 license(s) missing)	
Izolatka		Microsoft Corporation						
Sala operacyjna 🔄 🔲 Szpital		📕 🔎 Windows 10 Pro	10	license not assigned>	2	0	① Deficit (2 license(s) missing)	
Izolatka	192.168.40.102	192.1 Microsoft Corporation						
SmartMaps		Google Chrome	80	license not assigned>	1	0	Deficit (1 license(s) missing)	
asd asd		Google LLC						
- o chr		Not audited applications						
in firefox								_
Firefox		Internet Explorer	11	n/a	2			
Mapa1		Microsoft Corporation						
do serw	192.168.40.73	LibreOffice	6	n/a	1			
de test		The Document Foundation						
Testowa		Mozilla Firefox 74.0 (x64 pl)	74	n/a	1			
*		Mozilla						
		Mozilla Maintenance Service	74	n/a	1			
		Mozilla						

Printouts

The printing audit window allows the printing history in selected periods (day, week or month) to be viewed. Data are sorted by printers, and then chronologically.

To view the printing audit:

- 1. Click the **Audit** button in the top part of the window.
- 2. Select the 🍃 Wydruki option.
- 3. Select the period for the displayed data.
- 4. To find the required entries more quickly, use the search feature in the top part of the window.
- 5. To change the number of displayed columns, sorting or grouping methods, expand the menu at the column headers.
- 6. To check the details of the specific printing job, click the H button to expand the entry.

DataGuard

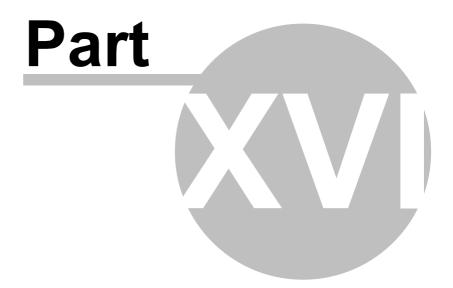
DataGuard audit window allows the history of printouts in the selected period (day, week or month) to be viewed. Data are sorted by printers, and then chronologically.

To view the printing audit:

- Click the Audit button in the top part of the window.
- 2. Select the DataGuard option.
- 3. Select the period for the displayed data.
- 4. To find the required entries more quickly, use the search feature in the top part of the window.

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5. To change the number of displayed columns, sorting or grouping methods, expand the menu at the column headers.



16 Database backups

16.1 How to make a backup of my Atlases?

All atlases' information is stored in the \Database\AtlasPG directory.

To make a backup, use the **DBBackup** tool from {**nVision**}**Backups** directory. Launching the **DBRestore** tool will restore nVision's database backup.

16.2 Automatic backup

Profiles

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Creating backups is based on defined profiles. Each profile may specify:

- the directory where the created backups will be saved,
- the profile name,
- backup date.

The backup can store the selected data:

- collected Windows system log entries,
- generated alerts,
- counter and service monitoring history,
- user activity data,
- inventory data.

Backup rules

To configure backups, multiple profiles can be used. Each profile stores backup frequency (each day, week or month) and the time when the backup is to be performed. In each case the hour of the backup start is specified. If the backup is performed weekly, additionally set the weekday, if monthly – set the day of the month. In the case of large databases, creating backups can be a time-consuming task, therefore planning full backups for such times when it will not interfere with nVision operation in business hours is recommended.

Configuration

To configure the automatic creation of backups:

- 1. In the main menu of nVision select **Tools / Options**.
- 2. Select Maintenance from the list.
- 3. Add a new rule with the use of the ${}^{\bullet \bullet}$ button or **Edit** one of the existing rules.
- 4. In the **Backup rules** window, select an existing profile or create a new one (to create a new profile, expand the menu at the **Edit** button, choose the **Add** option and configure the new profile settings).
- 5. Set the backup frequency and the times when the backup will be performed.

6. You can also define the number of stored backups.

16.3 Database size

As an effect of collecting a large amount of data in the monitored networks, the database size can grow rapidly. This chapter explains how to counteract the excessive database growth.

Database size management can be performed by means of:

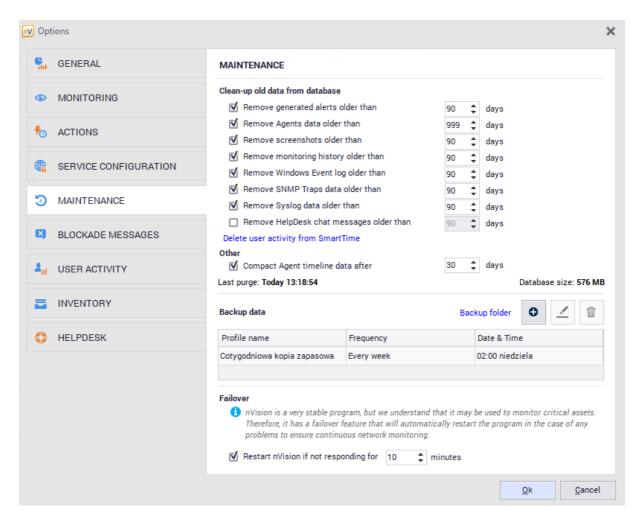
- Setting a time for the deletion of outdated data
- Compacting
- Windows event log monitoring options
- Database repairing

Setting the outdated data removal interval

To set the time after which the outdated data will be removed, use the cleaning option (**Options** *I* **Maintenance**). Data cleaning is performed once a day during the night.

Decreasing the time after which the outdated data are removed does not reduce the database size, but will stop its growth at a certain level. This is because the outdated data are not deleted from the database, but overwritten with the newly arriving data.

Screenshots are the main reason of the huge size of nVision's database. Because of that fact, during turning of this functionality in the **Host info** / **User activity** / <u>Screenshots</u> window, administrator has to point out a date when collecting them will be stopped.



Windows Event Log monitoring options

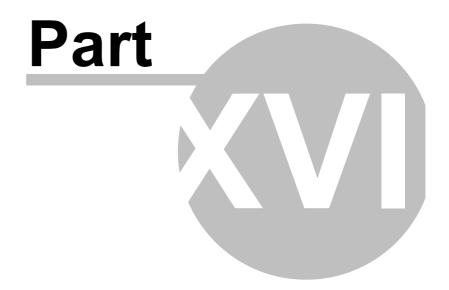
The large growth of the database is most often the result of collecting data on user logons (Windows Event Log). If the monitoring of Windows Event Log does not need to be collected, toggle the respective field in the device **Properties**, the **Monitoring** tab. If the data should be collected, set the appropriate monitoring interval and check whether the logon entries ignore option is enabled in the configuration (enabled by default). This setting allows unnecessary entries to be filtered (approx. 99% of all entries).

16.4 Backup folder change

nVision allows you to change the default backup location. To do this, in the **Main** tab select **Options**, and then **Maintenance**. Next, select the highlighted **Backup folder** option and specify the new location:

	GENERAL	MAINTENANCE							
>	MONITORING	Clean-up old data from	latabase						
		Remove generate	d alerts o	lder than	90	🗘 days			
,	ACTIONS	Remove Agents d	ata older	than	999	🗘 days			
	Actions	Remove screens	nots older	than		🗘 days			
	SERVICE CONFIGURATION	Remove monitori	ng history	older than		🗘 days			
	SERVICE CONFIGURATION	Remove Windows		-		days			
	MAINTENANCE	Remove SNMP T				days			
_		Remove Syslog d				🗘 days			
	BLOCKADE MESSAGES	Remove HelpDes		-	90	days			
	0200101020	Delete user activity fro Other	m smart i	lime					
	USER ACTIVITY	Compact Agent ti	meline da	ta after	30	🗘 days			
		Last purge: Today 10:16	07				Databas	e size: 5	77
	INVENTORY	Backup data			Ва	ckup folder	•	_	Ĩ
	HELPDESK	Profile name		Frequency		Date & Tir	ne		
		Cotygodniowa kopia zap	asowa	Every week		02:00 nied	ziela		
		Therefore, it has a	failover for re continue	gram, but we understand eature that will automa ous network monitoring. onding for 10 \$	tically resta				

Note! Modification of this setting is only possible from the level of the local nVision console connected to the server using the address 127.0.0.1.



17 Frequently Asked Questions

17.1 Agent data reset

In order to solve certain problems with some missing monitoring data (e.g. gaps in User activity or outdated inventory data), it might be necessary to restart the Agent data.

This will result in the resending of the missing data if they are available in the Agent's database.

DESKTOP-NOQN							HTTP Device status
	Axence nVision 11						
	Agent status on: DESKTOP-N0QNHI1, 192	2.168.0.108					
				181 Installer			
	Status: Connected		Actions:				
	The workstation has up-to-date configuration Agent version: 2.0.4.28748			ot supported			
	Last connection: Today 10:16:04			ot supported			
		-		ot supported			
	Transferred data:						
	Data type			ot supported			
	Applications timeline			ot supported			
	Bandwidth			ot supported			
	Custom files			ot supported			
	DataGuard device audit			of supported			
	DataGuard file audit			in supported			
	Distribution tasks results						
	E-mails			ot supported			
	Files			ot supported			
	Hardware inventory			et supported			
	HelpDesk announcements results			Reset device data			
	MSI packages manager (installations)						
	MSI packages manager (uninstallations)			NOTE this action will delete data on the	Accept and in the planing database		
	Pages timeline			Then the data will be read and sent again	Use this option in the case of		
	Printouts			incorrect data in nVision.			
	Screenshots			Select what type of collected data you w	ant to reset:		
	Software inventory						
	System information Temolates processed			Resources: software inventory			
	Templates processed User activity			 Resources: hardware inventory 			
	User outerly.			DataGuard: connected devices			
					Beset data Gancel		

For this purpose, perform the following steps in the Host Info window:

- 1. Click the "i" icon in the upper part of the Host Info window.
- 2. In the Actions section, select Reset host data.
- 3. In the **Reset Agent data** dialog box mark the selected data types which should be reset. Click the **Reset data** button.

Note: Checking the **Force Agent on this host to reset all its data and collect it once again** option will delete the data collected by the Agent from its database and from nVision database, and will restart the data collection from the moment of resetting. This option should be used only in the case of resetting hardware and software inventory data.

17.2 Agent installation with use of Active Directory

Instructions for software distribution with use of Active Directory:

1. Place the **MSI package (nvagentinstall.msi)** in the shared folder on the server so as the workstations and domain controller (the server supporting Active Directory) can access it: create such a folder, copy the package there and set the sharing rights appropriately (resource access as follows:

- \\[SERVER_NAME] \[DIRECTORY_NAME] \nvagentinstall.msi
- 2. Run Group Policy Management Console command:

gpmc.msc

3. Create a new group policy object: select the **Group Policy Objects** folder, right-click it and select **New** from the drop-down menu.

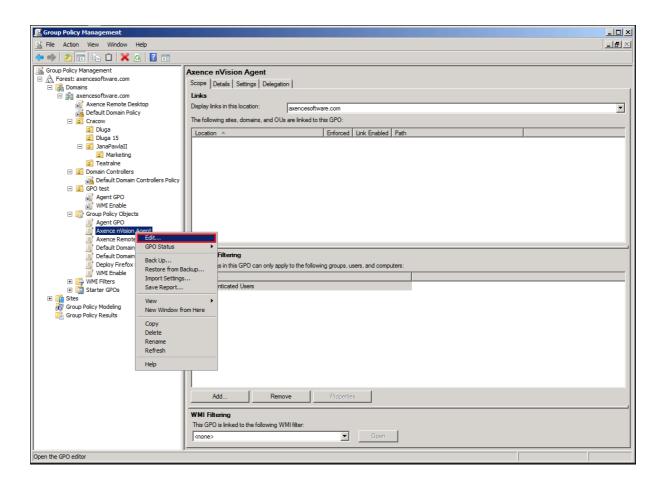
E com a la Managera											
🔜 Group Policy Management							_ 🗆 🗡				
File Action View Window Help							_ 8 ×				
🗢 🔿 📶 🔲 🔍 🖬											
Group Polcy Management Group Policy Objects in axencesoftware.com											
Forest: axencesoftware.com	A Forest: axencesoftware.com										
Domains	Delegation						1				
Axencesoftware.com	Name 🔶	GPO Status	WMI Filter	Modified	Owner						
Axence Remote Desktop	Agent GPO	Enabled	None	12/4/2009 5:09	Domain Admin						
	I Axence Remote Desktop	Enabled	None	3/22/2010 3:39							
Dluga	Jefault Domain Controllers P	Enabled	None	10/13/2009 5:4							
Dluga 15	Default Domain Policy	Enabled	None	10/13/2009 5:0							
🖃 📓 JanaPawlaII	Deploy Firefox Browser WMI Enable	Enabled Enabled	None	10/16/2009 4:0							
🖬 Marketing	UVMI Enable	Enabled	None	1/19/2010 5:35	Domain Admin						
🖬 Teatraine											
🖃 📓 Domain Controllers											
Default Domain Controllers Policy											
GPO test											
WMI Enable											
Group Policy Objects											
Agent GPO New											
Axence Remote [Back Up All											
📕 Default Domain C 🛛 Manage Backu											
Default Domain P Open Migratio	n Table Editor										
Deploy Firefox Br	•										
WMI Enable	from Here										
WMI Filters WMI Filters Time William Refrech											
El Ligi Starter GPOs Refresh											
Group Policy Modeling Help											
Group Policy Results											
]]											
Create an unlinked GPO											

4. In the New GPO dialog box, name the created Group Policy Object,

e.g. Axence nVision Agent.

New GPO	×
Name:	
Axence nVision Agent	
Source Starter GPO:	
(none)	
	OK Cancel

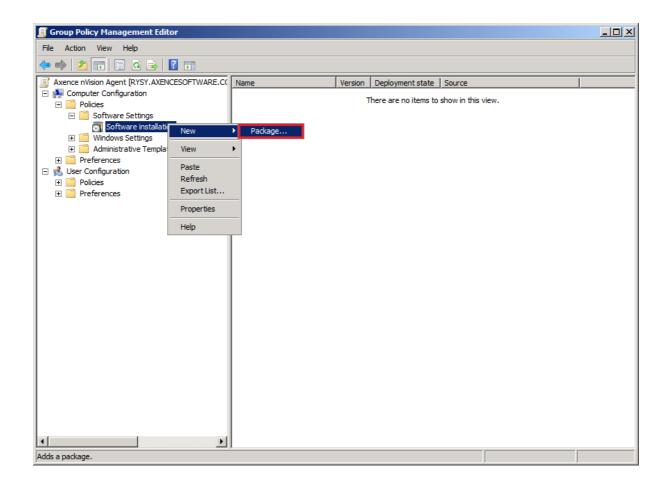
5. Navigate to edit the created GPO: right-click the object, select Edit from the drop-down menu.



6. In the Group Policy Management Editor dialog box, expand:

Computer Configuration \setminus Policies \setminus Software Settings \setminus Software installation

right-click it and select **New > Package** from the drop-down menu.



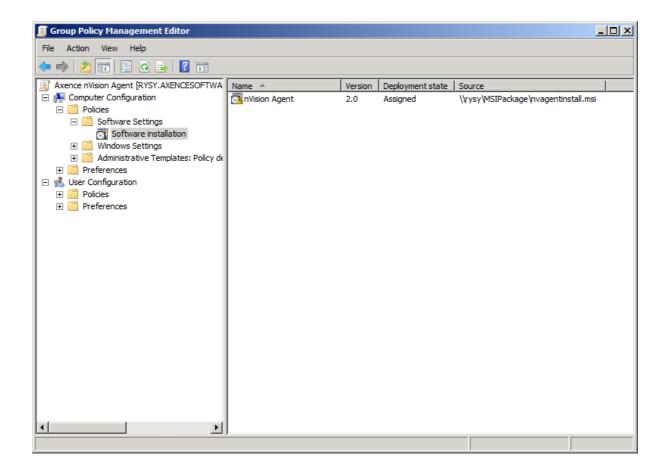
7. Select MSI package file in the resource sharing location (it is best to enter the address of the shared resource).

```
\\[SERVER_NAME]\[DIRECTORY_NAME]\
```

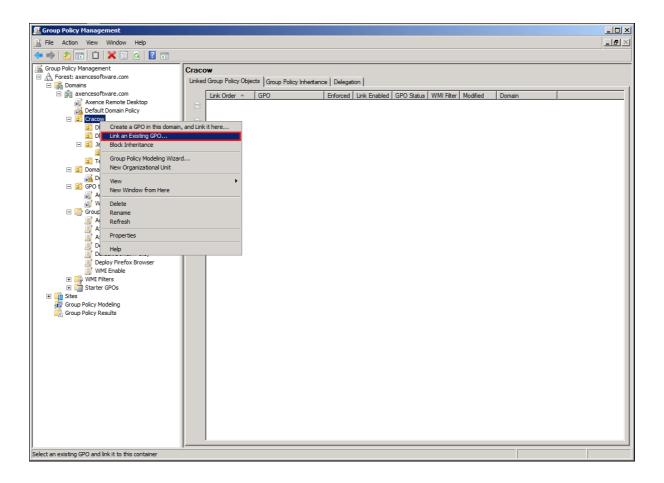
and choose the package type.

8. In the **Deploy Software** dialog box, select **Assigned**.

9. nVision Agent entry should appear in the Group Policy Management Editor dialog box.



10. Having created the GPO, return to the **Group Policy Management** dialog box and link the GPO to a container of the user group or machine group: select the container where the GPO should be assigned to, right-click it, select **Link an Existing GPO** from the drop-down menu, then select the created GPO.



Select	GPO X
Look i	n this domain:
	axencesoftware.com
Group	Policy objects:
	Name A
	Agent GPO
	Axence nVision Agent
	Axence Remote Desktop Default Domain Controllers Policy
	Default Domain Policy
	Deploy Firefox Browser
	WMI Enable
	OK Cancel

11. The object created in such a manner should be distributed to workstations. The group policy updating can take a few hours; to accelerate it, execute command:

```
gpupdate /force /boot
```

on workstations to force the group policy updates, and in consequence, the installation of the MSI package with nVision Agent. In the case of failure, error messages can be found in the **Windows Event** Log of the workstations and the server.

17.3 Antivirus software proper setup

In order to assure the correct operation of nVision in accordance with program requirements, add the following folders to the anti-virus software exclusion list (disk operations and network connection):

- C:\Program Files\Axence*.*
- C:\Program Files (x86)\Axence*.*

including subfolders on:

- the machine where nVision Server is installed,
- the machines where nVision Consoles are installed,
- the machines where nVision Agents are installed.

Then restart these machines:

Examples:

- Eset Antivirus
- Kaspersky Antivirus 2018
- AVG Antivirus.

17.4 Cloning the disk image with Agent installed

During installation, nVision Agent generates and saves its unique GUID identifier in the registry. If the Agent detects the change of machine SID, where it is installed on, it generates a new GUID during startup. The correct sequence of steps should include the preparation of the operating system with SysPrep utility before cloning the disk image to other machines. In such a case, when starting each cloned system, a new unique SID is generated, and Agents from these systems report in to nVision with different (unique) GUIDs and thus they create separate icons in nVision. Otherwise, each system reports to nVision under the same GUID, i.e. a few Agents send their data to the same icon in nVision.

If such a situation occurs, use SysPrep utility to reset SIDs on individual machines:

http://technet.microsoft.com/en-us/library/cc721973.

17.5 Configuration of Agents installed on mobile computers

In order to configure an Agent installed on a mobile machine (operating outside the local network):

- 1. open port **4436** on the router/firewall with an external address for incoming connections and redirect the traffic to port **4436** of the computer in the local network on which nVision Server is installed;
- 2. when installing nVision Agent on a mobile machine, provide it with an external **IP address of the router**.

If it is necessary to configure the connection of mobile machines with Agents, which at present are already using a local IP address of a computer with nVision, you can use the **Tools and options** tab, **Agents / Propagate new Atlas address** option and provide a new external IP address of the router. After propagating the new address (adding it to Atlas list in the configuration of nVision Agents), nVision Agents will attempt to connect with each of the addresses on their list. The connection will only be established if GUID and the password are identical in nVision Agent and in nVision Agent's list of Atlas to which the Agent cannot be connected for 21 days will be deleted from the nVision Agent's list of Atlases (if there is only one Atlas in the list, it will be never removed).

Related topics

Ports used by nVision 🕬

17.6 Duplicated hosts

If duplicate devices, visible in the **Tools / Show duplicates** menu, appear in nVision, run the following command in the command line in relation to the duplicate IP addresses and DNS names:

ping - a IP_ADDRESS

and:

ping - 4 DNS_NAME

and compare the results of these operations (there should be identical IP addresses and DNS names). If these do not match, look for the solution of the problem in incorrect DNS server configuration (aging / scavenging old records: <u>http://technet.microsoft.com/en-us/library/cc771677.aspx</u>) and/or too short IP address lease time on DHCP server (this time should not be shorter than aging / scavenging period of old DNS records).

17.7 File system audit

From the perspective of the file system, there is no such operation as "copy from... to ...". The application, which "copies" the file, as a matter of fact creates a new file and fills it with the content read (acquired) from any source: another disk, network, external device connected to the computer, text entered from the keyboard in the application window, etc. Therefore it is not possible to log information about the data source in DataGuard.

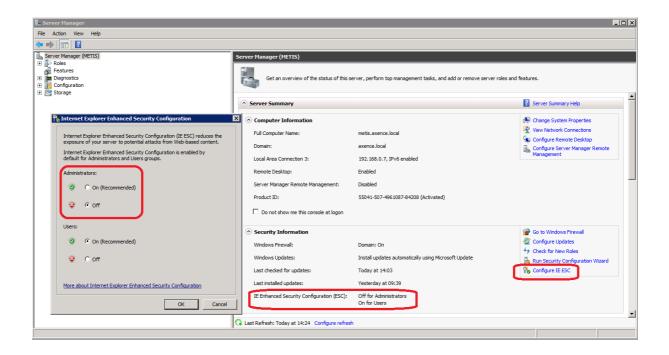
17.8 Generating reports on Windows Server systems

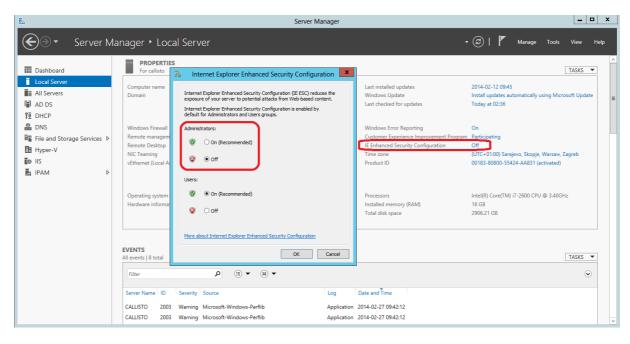
In case of problems with generating reports in nVision Console installed on Windows Server or in Internet Explorer on such a system, disable IE ESC (Internet Explorer Enhanced Security Configuration) setting for administrators on this system in the Windows Server configuration. After disabling it, restart nVision Console. Disabling this option changes web browser safety level on the server, therefore it is recommended to generate reports in nVision Console installed on the desktop version of Windows or in a web browser on a desktop system.

For details see:

http://blogs.technet.com/b/plitpromicrosoftcom/archive/2010/04/30/internet-explorer-enhanced-securityconfiguration.aspx

http://technet.microsoft.com/en-us/library/dd883248(v=ws.10).aspx





17.9 Hosts merging

To merge hosts with Agents:

- 1. In the Hosts / Agents view, select hosts to be merged.
- 2. Right-click and select the Agent / Merge hosts option. The Merge hosts window will open.
- 3. To start the merging process, press Merge button. The old host will be removed from the map.

Merge devices						
Source device:	WIN10, 192.168.69.206 Last connection with Agent: 23.03.2020 15:58:26					
Destination device:	DESKTOP-N0QNHI1, 192.168.0.108 Last connection with Agent: Today 10:16:04					
Merging progress:						
0 %						
	A Merge					

17.10 How "Uninstall nVision Agent" option works

The Agent will be uninstalled after receiving uninstallation command during connection with the nVision Server.

If the Agent is not connected with the nVision Server (e.g. the Agent was temporarily disabled or the machine where the Agent is installed is not running), uninstallation will proceed during the next connection with the nVision Server.

17.11 Installing Agent through WMI

To install nVision Agent remotely with the use of WMI, perform the following steps on the destination machine:

- 1. open the command line with administrator rights and run **WmiEnable.exe** (available in nVision installation folder)
- 2. make sure that "File and Printer Sharing" is enabled in Windows:
 - Windows 7 and 8: Control Panel / Network and Sharing Center / Advanced sharing settings (option on the left side of the dialog box);
 - o Windows Vista: Control Panel / Network and Sharing Center;
 - Windows XP: Control Panel / Windows Firewall / Exceptions;
- check the properties of the machine in nVision to make sure that the Windows logon data test is passed successfully

17.12 Launching SNMP in Linux system

How to run SNMP in Linux system (on the example of openSUSE distribution):

- 1. Install net-snmp packages (with dependencies)
- 2. Open ports 161 TCP and 161 UDP in the firewall
- 3. Open command line, enter:

su -

followed by the root user password

- 4. Run gedit from the command line and edit the /etc/snmp/snmpd.conf file
- 5. To have access to the entire SNMP tree for reading, enter:

```
view systemonly included .1
```

```
rocommunity public default
```

and save such modified file

- If you want SNMP service to start during each system boot, enter in the command line: chkconfig snmpd on
- 7. Now run SNMP service by entering in the command line:

service snmpd start

When the above procedure has been performed, open **Credentials** tab in the properties window of selected host in nVision, select **SNMP manageable host** option and click **OK**. Then, when a device information window is opened, it is possible to view SNMP counters tree in the **SNMP** tab.

Especially interesting system information can be found in branch:

. iso.org.dod.internet.mgmt.mib-2.host

OID: .1.3.6.1.2.1.25

17.13 Monitoring multiple locations in nVision

There are a few ways to monitor several locations in nVision:

- One installation of nVision Server and monitoring of devices in remote locations connected with the head office with use of VPN
- 2. One installation of nVision Server and monitoring of devices (in particular, sending data from nVision Agents) through the Internet
- 3. Independent installations of nVision Severs in remote locations:
 - o no central database (each nVision Server has an independent database)
 - Agents accept configuration changes and new versions only from one nVision Server (Master Atlas)
 - access to nVision Servers with nVision Console in LAN, with RDP in WAN or with a Web browser (nVision Web Access)

The **Users** tab allows the creation of user accounts and to assign each user to one of the three roles. It is described in detail in chapter Types of user roles.

17.14 Moving nVision to another machine

To move nVision to another machine, perform the following steps:

- 1. Use the **Tools / Agents / Propagate new Atlas address** menu option to propagate new Atlas address to Agents.
- 2. In the **Agents** view, in the **Last connection time** column, make sure all Agents have received new Atlas address (Agents' connection time should be later than the time when the new address was propagated).

- Copy the installer file nVisionSetup.exe from the <nVision>\Sources folder (it will be required in the further part of the procedure).
- 4. Make sure the amount of free disk space on the target machine is twice larger than the size of the <nVision>\Database folder.
- 5. <u>Make a full backup</u> [632] of the Atlas using the **DBBackup** tool, which is located in the **<nVision>\Backups** folder.
- 6. Uninstall nVision.
- 7. Install nVision on the new machine using the file downloaded in step 3).
- 8. Copy full backup made in step 5) to the target machine.
- 9. <u>Restore full Atlas backup</u> [632] using the **DBRestore** tool.
- 10. Start nVision.
- 11. Go to the main nVision settings. Then, in the service configuration tab, change the HelpDesk IP address to the address of the new nVision server.

17.15 Not all users have been imported from Active Directory

The default value of **MaxPageSize** parameter (maximum page size supported for LDAP response) in Windows is 1000 records. If there are more users and groups in the Active Directory, then increase the **MaxPageSize** value in the LDAP protocol configuration.

For details see:

http://support.microsoft.com/kb/315071

17.16 OFFLINE inventory scanner parameters

The nVision offline scanner executable file can be run with following parameters:

silent

program does not display the window reporting its operation

directory

program results are saved in the specific path

r unonce

if many files with previous scanning results are detected, the program will terminate immediately.

Example:

nVision_InventoryScanner.exe -silent -runonce -directory "c:\"

650

17.17 Ports used by nVision

The following ports should be open for incoming connections on the machines where nVision Server is installed:

nVision Server:

- 4434 diagnostic information
- 4436 permanent connection (socket) of the Agent
- 8080 Web Access
- 8081 API server
- 162 SNMP trap.

nVision Agent:

• 4433 - diagnostic information

Machine from which the data from counters / services / Windows event log will be collected:

• 135, 139, 445, 593 – WMI

Windows Firewall is automatically configured during the installation of nVision Server and nVision Agent.

You need to configure firewalls from other producers on your own - for examples, see:

- Eset Antivirus
- <u>Kaspersky Antivirus</u>
- AVG Internet Security

17.18 Printouts monitoring

A locally installed Agent collects information about printouts from the printers installed as local ones only. In the case of printers configured as network devices, the Agent must be installed in the system on which the printer is provided. If the Agent will not be used for other purposes there, the Agent profile can be configured so as to only collect information about printouts.

17.19 Silent installation and uninstallation of nVision Agent

To install the Agent without user interaction, use the following command on the selected machine:

```
nvagentinstall.exe /verysilent /nVisionon:ADRES_IP_nVision
```

or

msiexec.exe /i nvagentinstall.msi /qn

To uninstall the Agent without user interaction, mark selected machines in nVision Console, and then right-click and select the **Agent / Uninstall** options from the context menu

or use the following command on the selected machine:

unins000.exe /verysilent /password=AGENTS_PASSWORD

17.20 Updating and archival versions of nVision

Technical issues to be taken into consideration while updating nVision:

- Installation of nVision Server on Windows XP is no longer possible minimum required system for nVision Server is Windows Vista or Server 2008 or newer, for nVision Console and nVision Agent minimum required system is Windows XP SP3 or newer.
- 2. Updating of nVision (or restoration from backup) to version 7 is possible only from nVision (or its backup) of the latest build of version 6 (6.5.4.14214).
- 3. After updating nVision to the latest version 6, **run the program at least once (open Atlas)**, then close nVision and perform the database repair to verify the database before updating.
- 4. Atlas import can be performed only in the local console.
- 5. The software must be run first from the local console in order to set the administrator's password.
- You can install nVision Console on another machine using the same nVisionSetup.exe file downloaded for nVision 7 update - after executing this file selection of installation type will be available: nVision Server+Console or nVison Console.
- Updating of nVision to version 7.5 is possible only from nVision of the latest build of version 7.1 (7.1.3.15872). Because of database rewriting this process can take longer time.
- 8. Because of database engine change after updating nVision to version 7.5 backup settings will be reset so the best is to check it and adjust it according to your needs.
- 9. Because of database engine change restoring database from backup in nVision 7.5 is possible only from backup created also in nVision 7.5.
- 10. To update nVision to version 8.2, you should first install the latest version of nVision 7 (7.6.2.17769).
- 11. Updating of nVision to **version 9** is possible only from nVision of the latest build of **nVision 8.2** (8.2.1.20202) or nVision 8.6 (8.6.0.22469).
- 12. Direct update to **nVision 10** is possible since nVision 8.6. Before updating to version 10, read carefully the document concerning <u>technical issues of migration to version 10</u>.
- 13. Updating nVision to version 11 and 12 is possible by updating nVision 8.2 (8.2.1.20202) or newer.

Archival nVision installation files can be downloaded from the following sources:

- nVision 6 (6.5.4.14214)
- <u>nVision 7.1 (7.1.3.15872)</u>
- <u>nVision 7 (7.6.2.17769)</u>
- <u>nVision 8.2 (8.2.1.20202)</u>
- <u>nVision 8.6 (8.6.0.22469)</u>
- <u>nVision 9 (9.3.4.25361)</u>

- <u>nVision 10 (10.5.3.27614)</u>
- <u>nVision 11 (11.9.1.29555)</u>
- nVision 12 (12.5.3.31064)

17.21 Virtual machines

If you want to detect virtual machines in the network, you can create smart maps defining filters:

Primary MAC address / starts with / <type the first three octets from the list below>

If, on the other hand, you want the network scanner/rescanner not to detect virtual machines (e.g. due to exceeded limit of devices allowed by the license), add the first three octets from the following list, each followed by an asterisk, to the ignored addresses list (in the Atlas properties).

0003FF

Virtual PC

http://blogs.technet.com/b/medv/archive/2011/01/24/how-to-manage-vm-mac-addresses-with-the-globalimagedata-xml-file-in-med-v-v1.aspx

000569

VMware

http://technet.microsoft.com/en-us/library/jj590655.aspx

00155D

Hyper-V

http://technet.microsoft.com/en-us/library/jj590655.aspx

080027

VirtualBox

https://forums.virtualbox.org/viewtopic.php?f=1&t=26295

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