



Administrator's Guide

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List of abbreviations used

Workstation – automated workstation.

Workstation TC – automated workstation at the technical center.

CSC – Central Security Console.

CCRVS – Central Console of Remote Video Surveillance.

Administrator's Guide. Introduction

ATM-Intellect. Administrator's Guide is a reference and information guide that is designed for system administrators, installation and configuration engineers, users with the rights to administrate *ATM-Intellect*.

This guide contains the following information:

1. General characteristics of *ATM-Intellect*.
2. General characteristics of *ATM-Intellect*.
3. Hardware and software requirements.
4. Installation sequence for *ATM-Intellect*.
5. Configuring procedure for *ATM-Intellect*.

ATM-Intellect general description

ATM-Intellect purpose

ATM-Intellect is a video security system of ATM network (VSSoAN) designed for safe operating of bank ATM network.

ATM-Intellect VSSoAN is a part of the bank integrated security system.

ATM-Intellect VSSoAN purposes are:

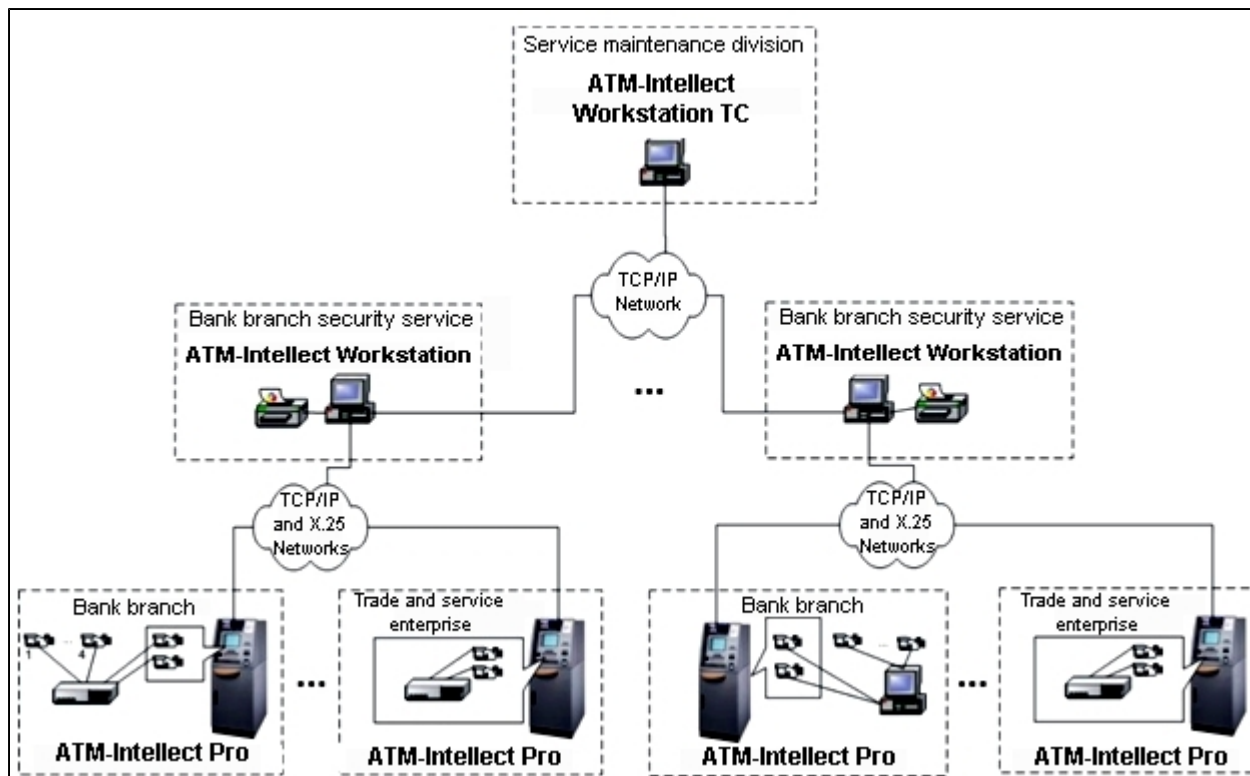
1. reduction of the bank's financial losses related to fraud while obtaining cash from an ATM;
2. reduction of the bank's financial losses related to the acts of vandalism against the ATMs.

VSSoAN is used for security of ATMs installed in bank branches, and in the trade and service enterprises.

ATM-Intellect description

ATM-Intellect is a territorially distributed system which consists of the following components:

1. Local ATM video security systems (ATM Intellect Pro).
2. Remote video controllers for ATM groups (*ATM-Intellect Workstation*).
3. Remote control of VSSoAN technical condition (ATM-Intellect Workstation TC).



ATM-Intellect Pro is placed directly at the installation site of ATMs in bank branches or trade and service enterprises. *ATM-Intellect Pro* provides a recording of the video coming from the camera into a local video archive, digital signal processing from discrete sensors installed on the ATM and transfer of alarm messages on *ATM-Intellect Workstation*.

ATM-Intellect Workstation is placed in the bank security departments. It combines a group of *ATM-Intellect Pro* on a territorial basis, and provides reception and visualization of alarm messages from *ATM-Intellect Pro*, and requests to video archives of *ATM-Intellect Pro*.

ATM-Intellect Workstation and *ATM-Intellect Pro* interaction is performed over a data network protocols TCP / IP or X.25 using "regular" ATM link. The system also provides the option of direct interaction between *ATM-Intellect Workstation* and *ATM-Intellect Pro* without using "regular" ATM link.

ATM-Intellect Workstation TC is placed in the branch of a bank or in the service company and provides VSSoAN technical condition monitoring. Data on the *ATM-Intellect Pro* technical condition supplied to *ATM-Intellect Workstation TC* through the *ATM-Intellect Workstation*. Interaction between *ATM-Intellect Workstation TC* and *ATM-Intellect Workstation* is performed over the TCP/IP network data transfer protocol.

When creating and developing VSSoAN of a bank, several *ATM-Intellect Workstation* are supposed to be installed, each of them interacts with a group of *ATM-Intellect Pro* combined on a territorial basis.

ATM-Intellect Pro interacts with the ATM host computer via the messaging communication channel using Ethernet 10/100Base-T controller or asynchronous RS-232 interface.

VSSoAN provides the transfer of information (images or video clips) into the external systems when the situations involving fraud or vandalism in the ATM network are discovered.

**Attention!**

ATM-Intellect software does not operate in demo-mode, i.e. without intellect.sec license key

**Note.**

It is possible to expand the *ATM-Intellect* system with modules CCRVS and CSC. These modules are not included in the *ATM-Intellect* distribution kit and are supplied separately.

The main CCRVS functionality is maintaining a single list of all the objects of protection (ATMs) and the components of the security system, central control of technical condition and alarms of all the objects of protection (ATMs), monitoring of the actions of operators, CCRVS operator working with alarm reports, centralized reporting and centralized handling of complaints. Also, CCRVS may apply to the processing center of the bank to obtain information about transactions.

The main CSC functionality is to implement a centralized operational control and alarm handling of all objects of protection (ATMs).

ATM-Intellect Workstation functionality

ATM-Intellect Workstation is placed in the bank departments and provides the following functions:

1. receiving, recording and visualization of alarm messages from *ATM-Intellect Pro*;
2. receiving, recording and visualization of messages about the *ATM-Intellect Pro* components health and communication channels;
3. generating and transmitting video search requests to the *ATM-Intellect Pro* video archive, video search results reception;
4. generating and transmitting requests (based on video search results) to the *ATM-Intellect Pro* video archive, reception and archiving query results (images or clips);
5. viewing and printing query results (video frames);
6. creating the reports on registered events.

ATM-Intellect Workstation TC functionality

ATM-Intellect Workstation TC is placed in the bank or service company departments and provides the following functions:

1. receiving, recording and visualization of messages about the *ATM-Intellect Pro* components health and communication channels;
2. viewing logs of *ATM-Intellect Workstation TC* operation;
3. creating the reports on registered events.

ATM-Intellect Pro functionality

ATM-Intellect Pro is placed in the location of ATM installation and generally provides the following functions:

1. recording the primary video coming from cameras mounted on site ATM in the video archive;
2. displaying video from Cameras and playback recordings on the *ATM-Intellect Pro* security post;
3. receiving, processing and registration messages from the ATM;
4. receiving, processing and registration of signals from sensors installed both inside and outside the ATM;
5. detection of skimming devices installation in the input card area in the ATM card reader;
6. transmission of alarm signal on ATM-Intellect Workstation, as well as frames and clips files in case of an "emergency" situations during the ATM operation (in the case of sensor triggers or skimming devices detection);
7. transfer to the ATM-Intellect Workstation TC (via ATM-Intellect Workstation) data on the technical condition of ATM-Intellect Pro components;
8. receiving and processing requests for information search in the video archive, generation and transfer of results (video parameters satisfying the query);
9. receiving and processing queries for video (by search results), formation and transfer of results of queries (video clips or video frames) on ATM-Intellect Workstation.

Additional client workstation functionality

This is the *ATM-Intellect Workstation* version which is installed without additional components and connects to the existing database of the main *ATM-Intellect Workstation* while interface objects are created on the local computer. Before installing Additional client workstation, install *Intellect* in **RAW** mode. *Intellect* distributed system configuration is not required for Additional client workstation operation. No additional objects are required in the intellect.sec

ATM-Intellect restrictions

In the *ATM-Intellect* software package restrictions are imposed when creating of video security system of an ATM network:

1. Maximal number of **ATM-Intellect Pro** objects that can be connected to an *ATM-Intellect Workstation* is 2000.
2. Maximal number of **Surveillance objects** being child objects for an **ATM-Intellect Pro** is 10.
3. Maximal number of cameras which a **Surveillance object** can handle is 32.

Hardware and software requirements

On the page:

- [Installation environment and configuration](#)
- [Hardware requirements](#)

Installation environment and configuration

ATM-Intellect is implemented as executable modules and compatible with the operation systems supported by the Intellect software (see the [Operating system requirements](#) chapter in the [Intellect: Administrator's Guide](#)).

The standard OS settings do not need to be changed for installation. On Windows Vista or latest OS, you must disable UAC. In Windows 8 and 8.1 it is necessary to configure security policies in order to entirely disable UAC (configuring security policies is described in the [Intellect: Administrator's Guide](#)).

Hardware requirements

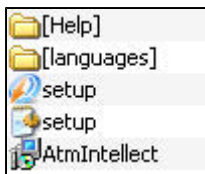
ATM-Intellect has the following minimum PC hardware requirements:

- CPU Intel Core i5 750;
- RAM 2 GB;
- HDD 200 GB;
- Network adapter;
- X.25 controller (if necessary);
- Uninterruptible power supply.

Installing ATM-Intellect

Installer description

The picture below shows the *ATM-Intellect* software installer content.



Documentation is available in the Help folder.
Use the setup.exe file to uninstall *ATM-Intellect* software.

Installation language is selected according to the language settings of the base *Intellect* software. This information is stored in the Language registry key in the section HKEY_LOCAL_MACHINE\Software\Microsoft\Windows\CurrentVersion\Uninstall\Intellect\. If, for some reason, access to this information is not possible, the language of the current operating system locale will be used if it is available. The following languages are available: Russian and English.

Preparing to install

For ATM-Intellect Workstation and ATM-Intellect Workstation TC, install Intellect in the remote administrator's workstation mode (RAW). For ATM-Intellect Pro, install Intellect in the Server mode. Intellect installation is described in the [INTELLECT Software Package. Administrator's Guide](#).

Information on compatibility of *ATM-Intellect* and *Intellect* software versions is given on the page [General information about product releases and versions compatibility](#).

One of the following objects must be present in the intellect.sec license key depending on the installation type:

1. **ATM-Intellect Workstation .**
2. **ATM-Intellect Workstation TC.**
3. **ATM-Intellect Pro.**

For *ATM-Intellect Workstation* and *ATM-Intellect Workstation TC* functioning a database server is necessary. When installing Intellect software on a clean (fresh) PC, MS SQL Server 2008 R2 Express is installed as well.

ATM-Intellect software supports the following database servers:

1. MS SQL Server 2008 R2;
2. MS SQL Server 2012.

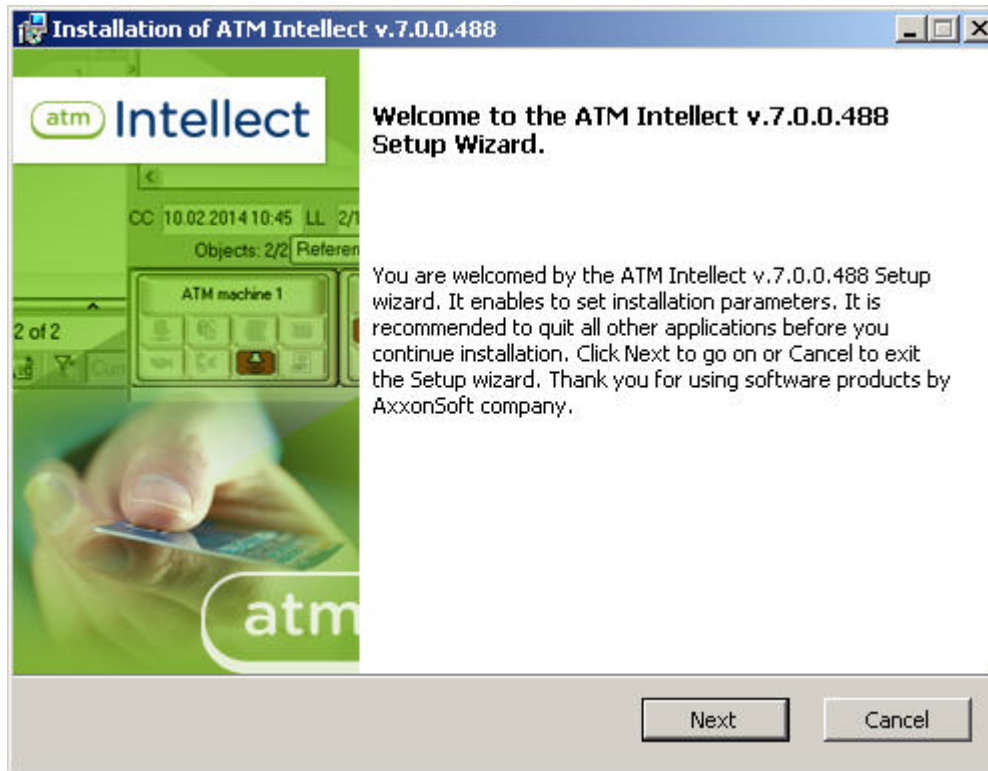
Installation steps for ATM-Intellect Workstation

install *ATM-Intellect* in the *ATM-Intellect Workstation* configuration, do the following:

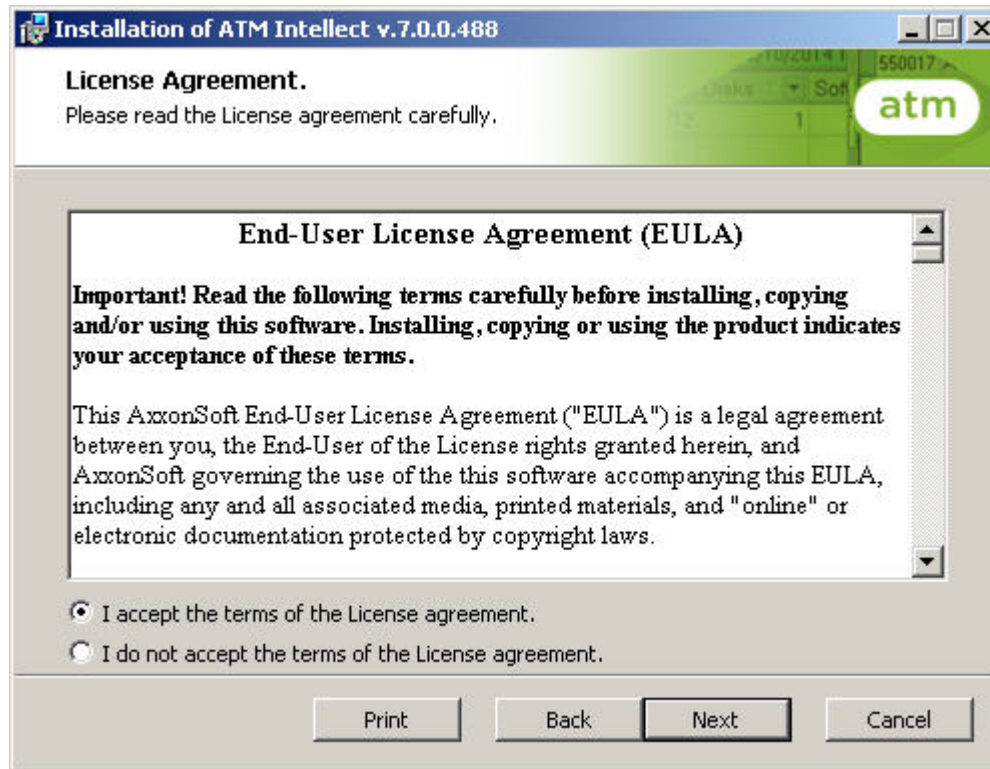
1. Start the file setup.exe from the installation kit. The installation wizard informs that the installation process has begun.



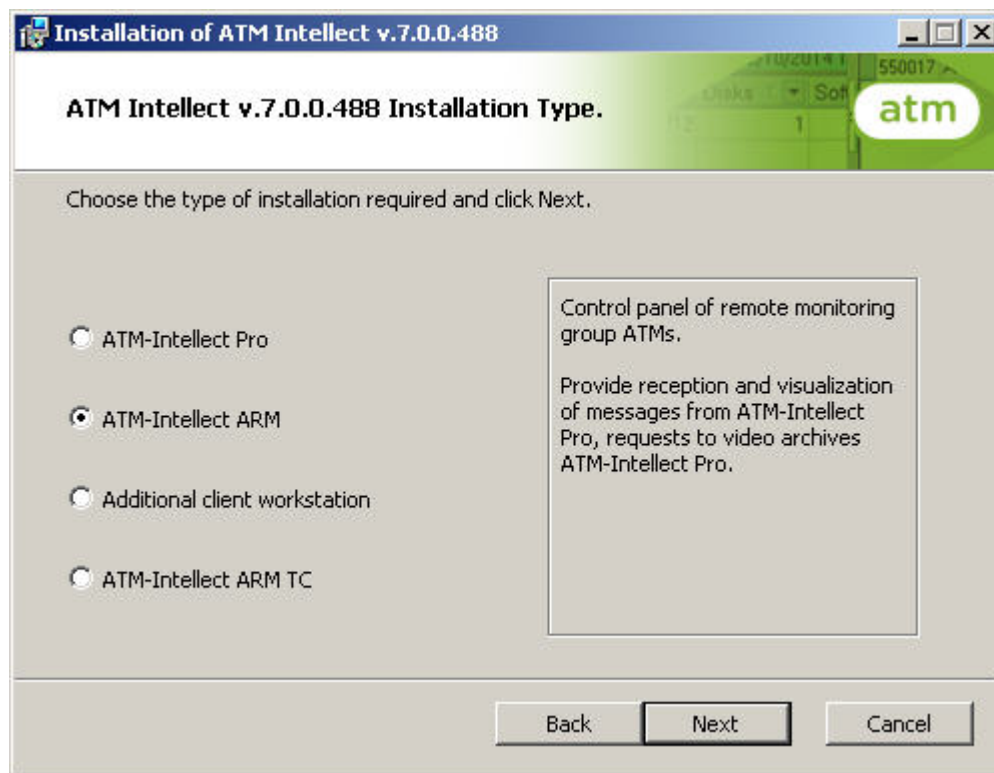
2. You are prompted to start installation. Click the **Next** button.



3. In the **License agreement** window read the terms of the End-User License Agreement . Set the switch into the **I accept the terms in the license agreement** position and press **Next**.



4. Set the **ATM-Intellect Workstation** installation type. Click **Next**.



5. A dialog box to configure database connection will be displayed. Select the database server name and set up the connection parameters.



Note.

In the **Select database Server from the drop-down list** field specify the "127.0.0.1" value instead of computer name or "(local)" value, e.g. "127.0.0.1\SQLEXPRESS". Otherwise ATM-Intellect Workstation will lose connection with its local database when the network cable is disconnected.

The screenshot shows a Windows-style installation window titled "Installation of ATM Intellect v.7.0.0.488". The window has a green header bar with the "atm" logo on the right. Below the header, the title "Select Database Server" is displayed, followed by the instruction "Select database Server and authentication method.".

The main content area has a light gray background. It contains the instruction "Select database Server from the drop-down list." above a drop-down menu. The menu is open, showing the text "127.0.0.1\SQLEXPRESS".

Below the drop-down menu, there is a text instruction: "Choose user identification procedure based on the present user account or SQL Server identity check.".

There are two radio button options:

- ☐ Windows user account
- ☒ Use the following user name and password:

Below these options are two text input fields:

- The "User name" field contains the text "sa".
- The "Password" field contains three dots "..." and is currently empty.

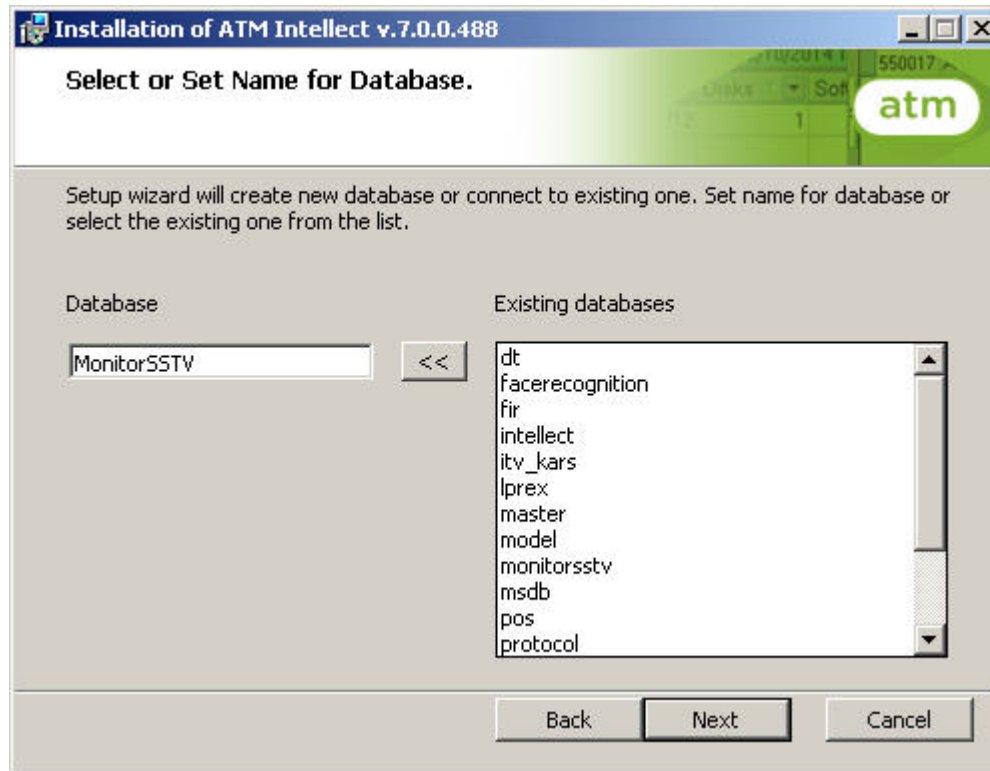
At the bottom of the window, there are three buttons: "Back", "Next", and "Cancel". The "Next" button is highlighted with a darker border.

6. In the **Database** field specify the name of existing database or select it in the list of databases, which are created in the server, and click <<.



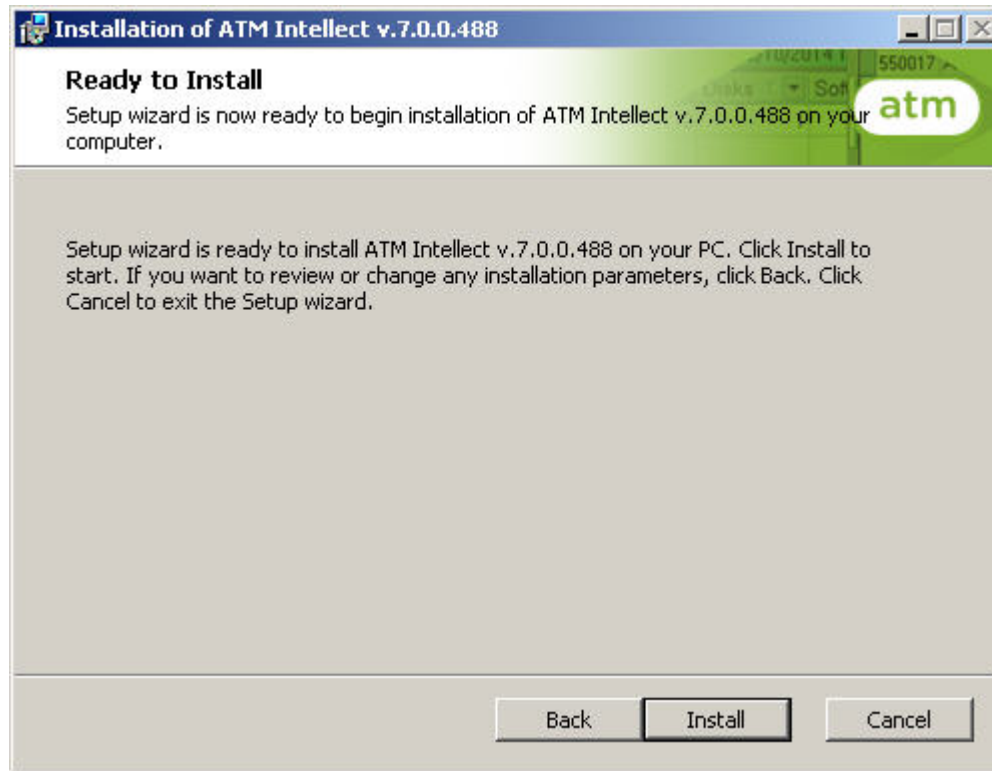
Note.

The default name of the database is MonitorSSTV and its files are located in the SQL Server folder.

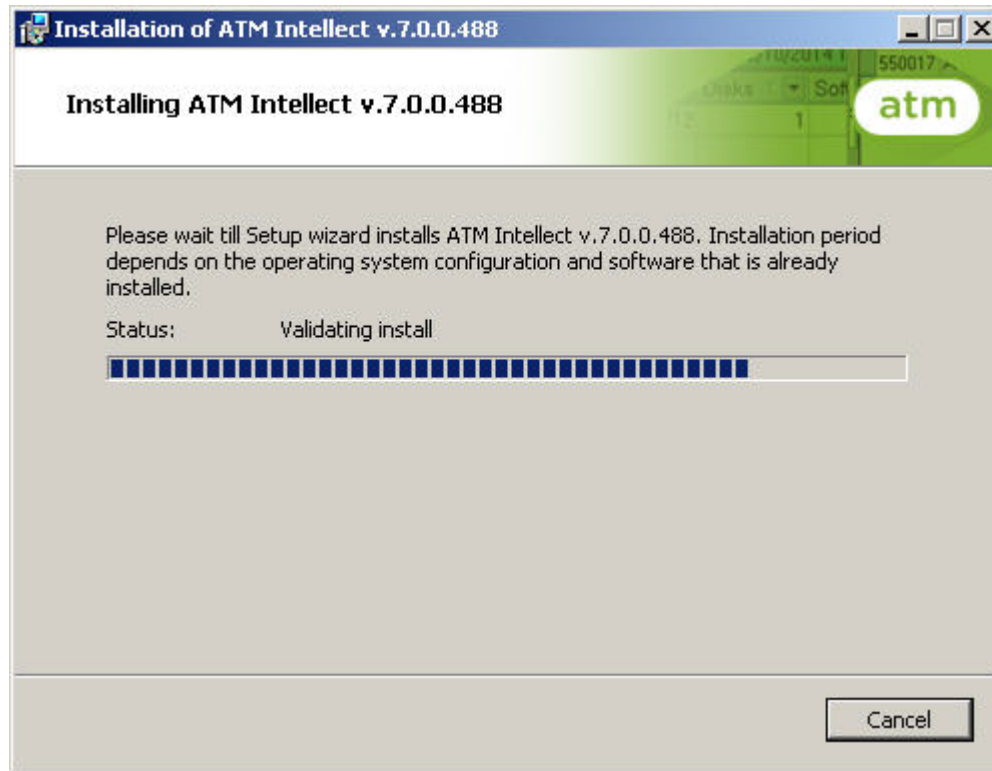


Click **Next**.

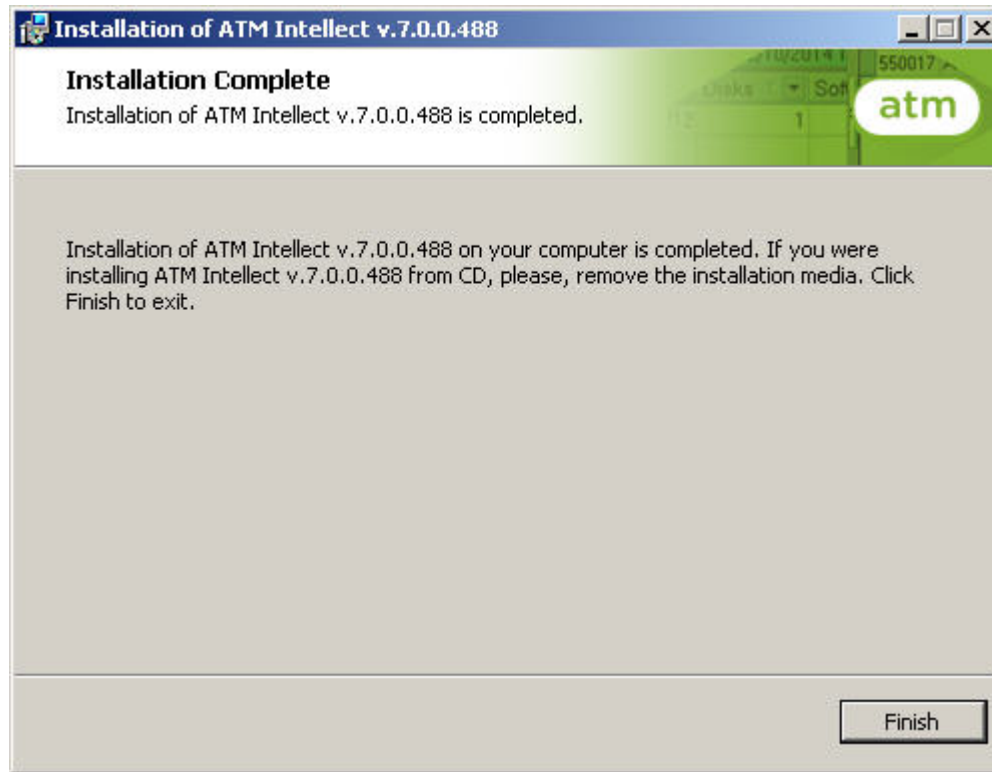
7. Click **Install** on the next pane.



8. Installation begins.



9. After the final installation tasks are completed, the wizard informs that the software has been successfully installed.



ATM-Intellect Workstation installation is completed.

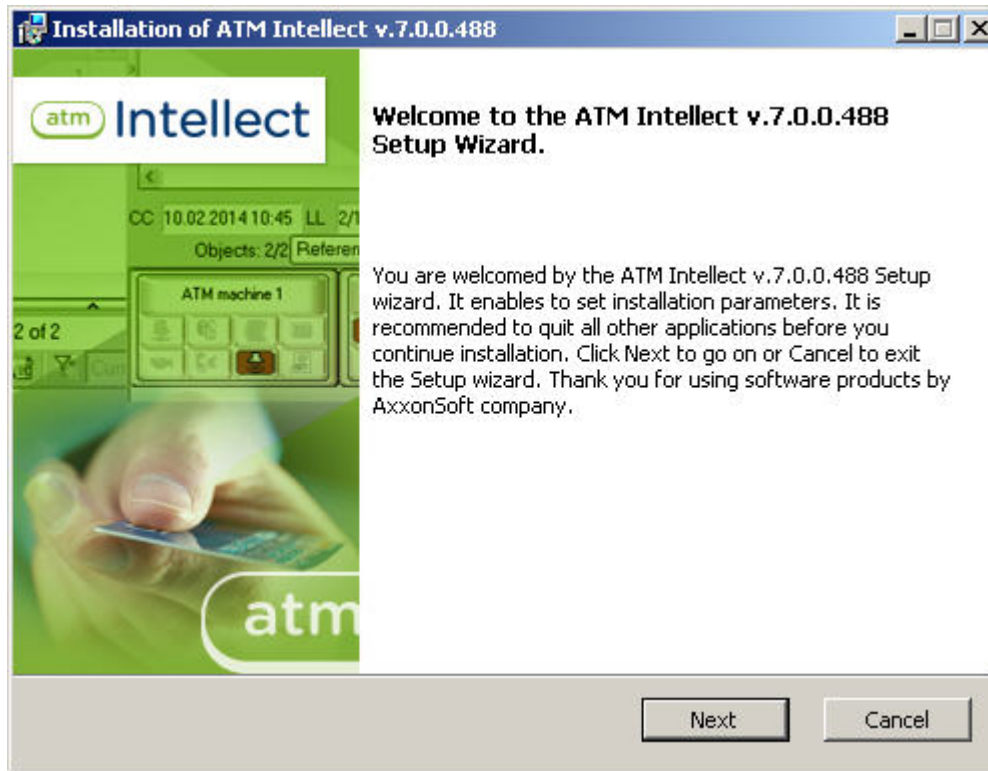
Installation steps for ATM-Intellect Workstation TC

To install *ATM-Intellect* in the *ATM-Intellect Workstation TC* configuration, do the following:

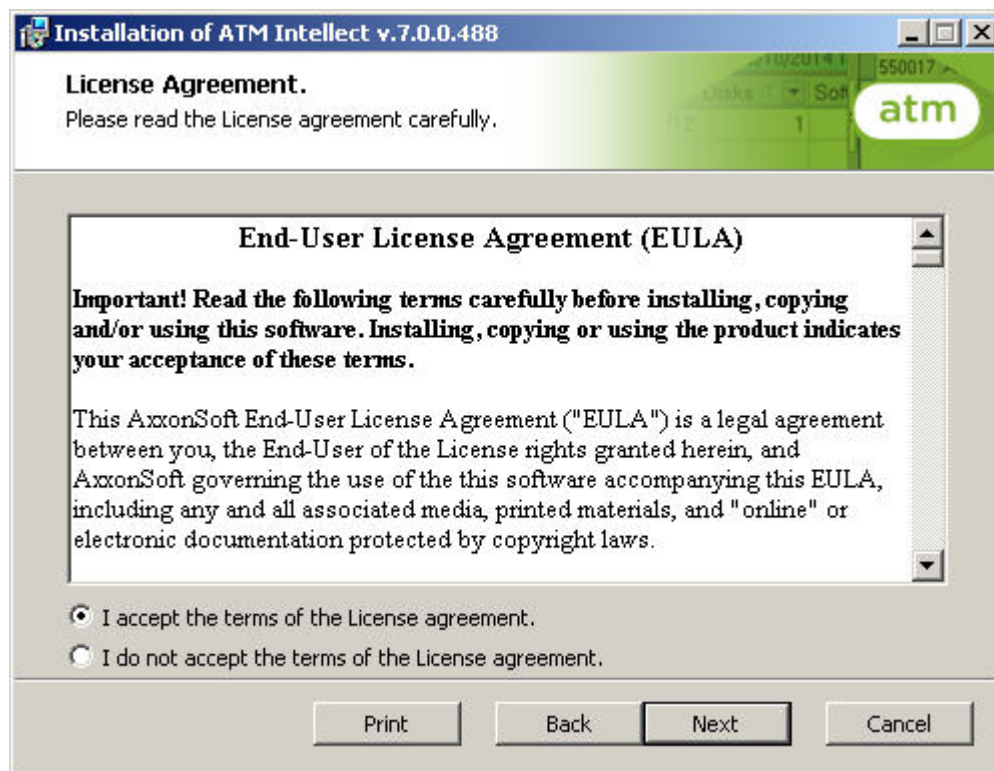
1. Start the file `setup.exe` from the installation kit. The installation wizard informs that the installation process has begun.



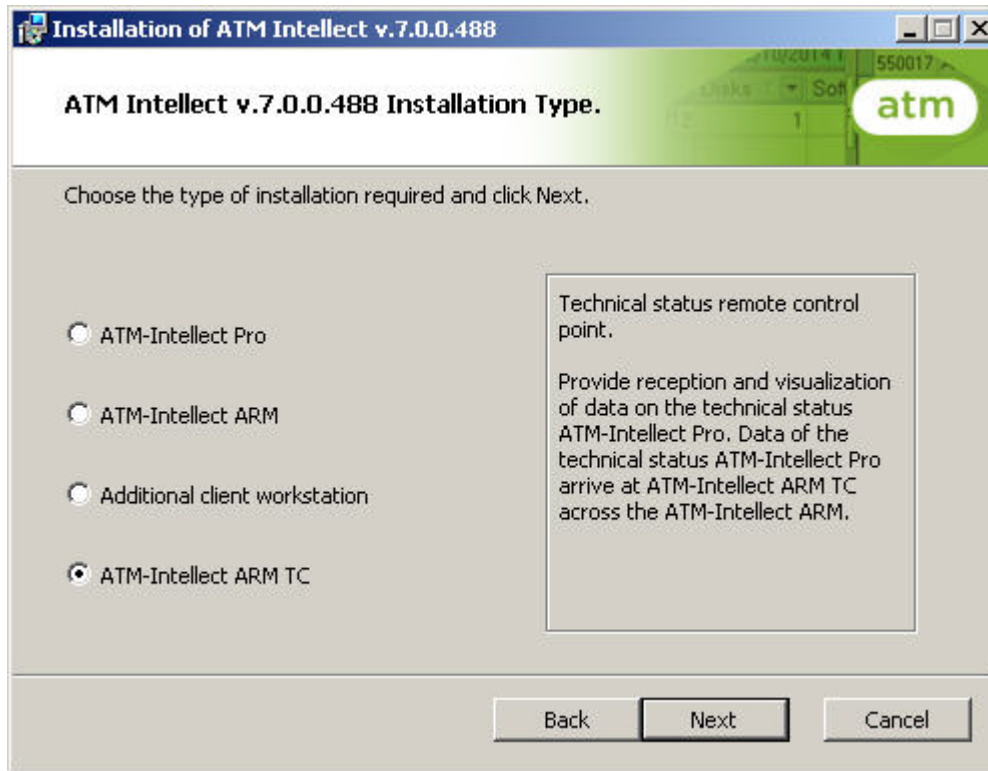
2. You are prompted to start installation. Click the **Next** button.



3. In the **License agreement** window read the terms of the End-User License Agreement . Set the switch into the **I accept the terms in the license agreement** position and press **Next** .



4. Set the **ATM-Intellect Workstation** installation type. Click **Next**.



5. A dialog box to configure database connection will be displayed. Select the database server name and set up the connection parameters.



Note.

In the **Select database Server from the drop-down list** field specify the "127.0.0.1" value instead of computer name or "(local)" value, e.g. "127.0.0.1\SQLEXPRESS". Otherwise ATM-Intellect Workstation will lose connection with its local database when the network cable is disconnected.

The screenshot shows a Windows-style installation window titled "Installation of ATM Intellect v.7.0.0.488". The window has a green header bar with the "atm" logo on the right. The main content area is titled "Select Database Server" and contains the following elements:

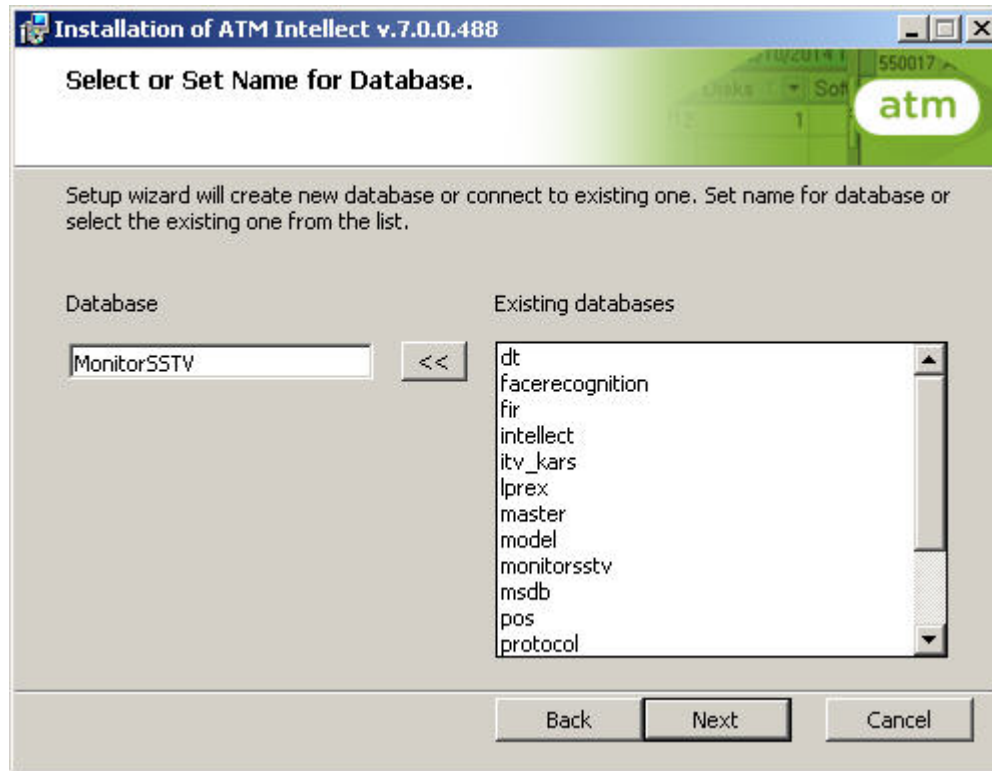
- A subtitle: "Select database Server and authentication method."
- A text instruction: "Select database Server from the drop-down list."
- A drop-down menu showing "127.0.0.1\SQLEXPRESS".
- A text instruction: "Choose user identification procedure based on the present user account or SQL Server identity check."
- Two radio buttons for authentication:
 - ☐ Windows user account
 - ☒ Use the following user name and password:
- Two text input fields:
 - "User name" with the text "sa" entered.
 - "Password" with three dots (masked) entered.
- Three buttons at the bottom: "Back", "Next", and "Cancel".

6. In the **Database** field specify the name of existing database or select it in the list of databases, which are created in the server, and click <<.



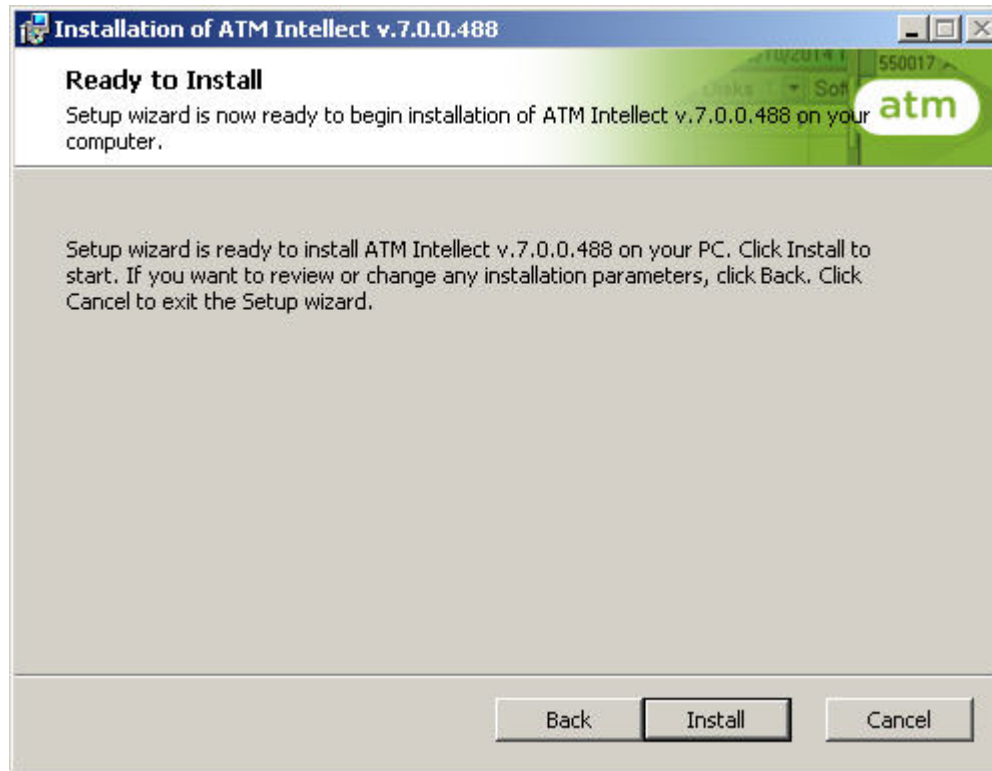
Note.

The default name of the database is MonitorSSTV and its files are located in the SQL Server folder.

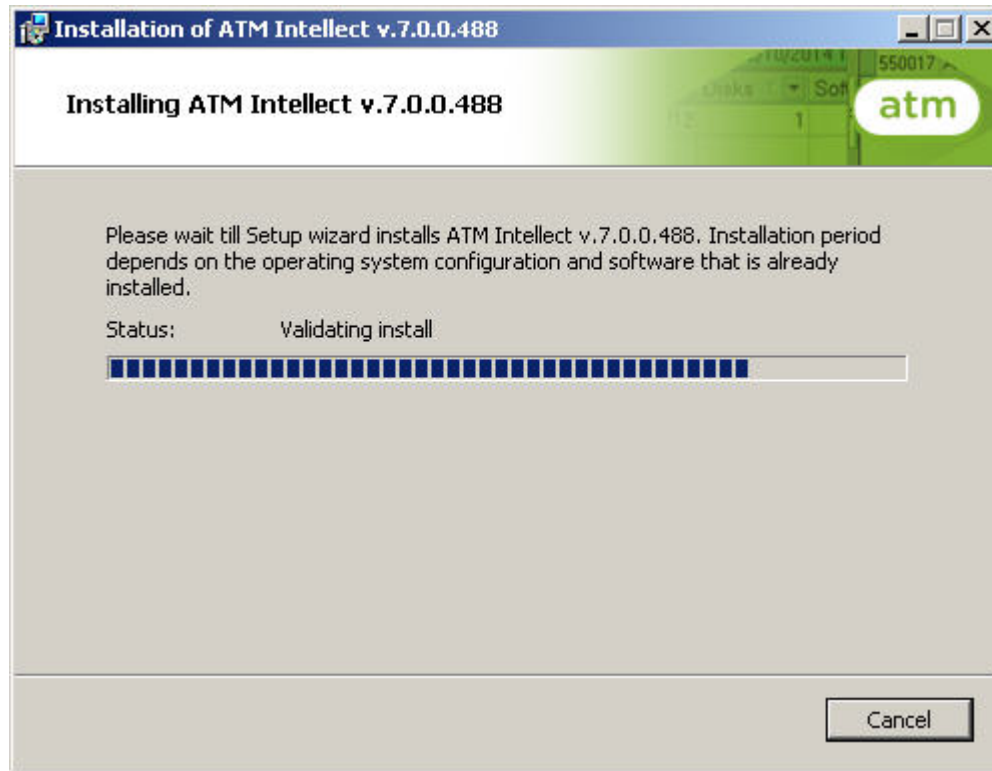


Click **Next**.

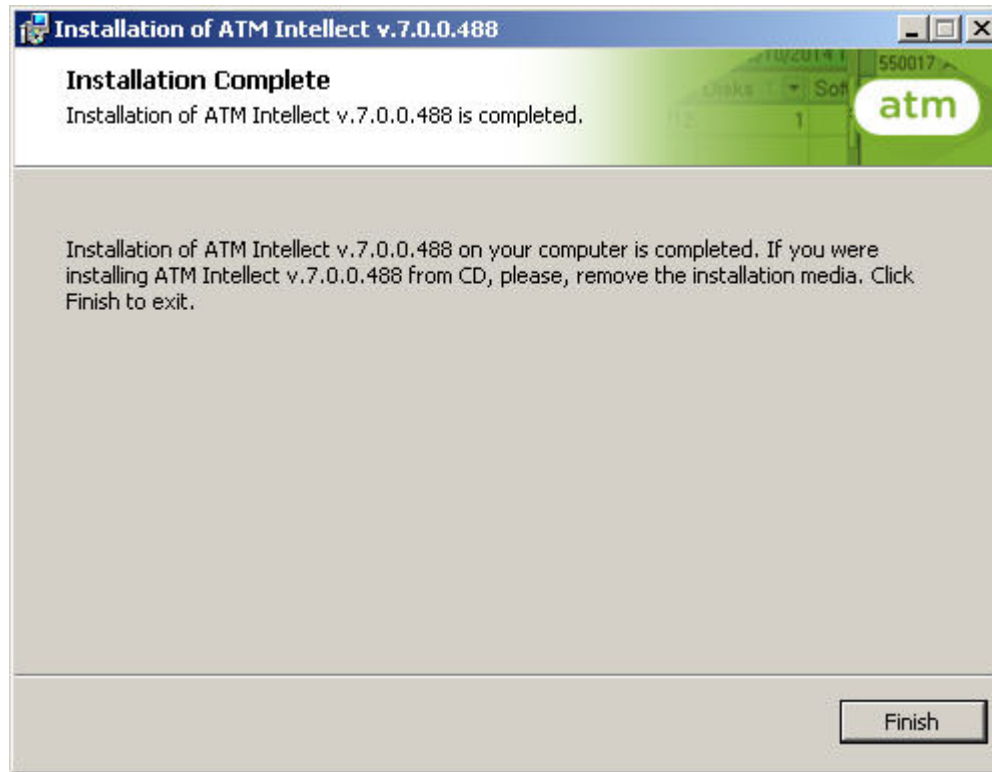
- Click **Install** on the next pane.



8. Installation begins.



9. After the final installation tasks are completed the wizard informs that the software has been successfully installed.



ATM-Intellect Workstation TC installation is completed.

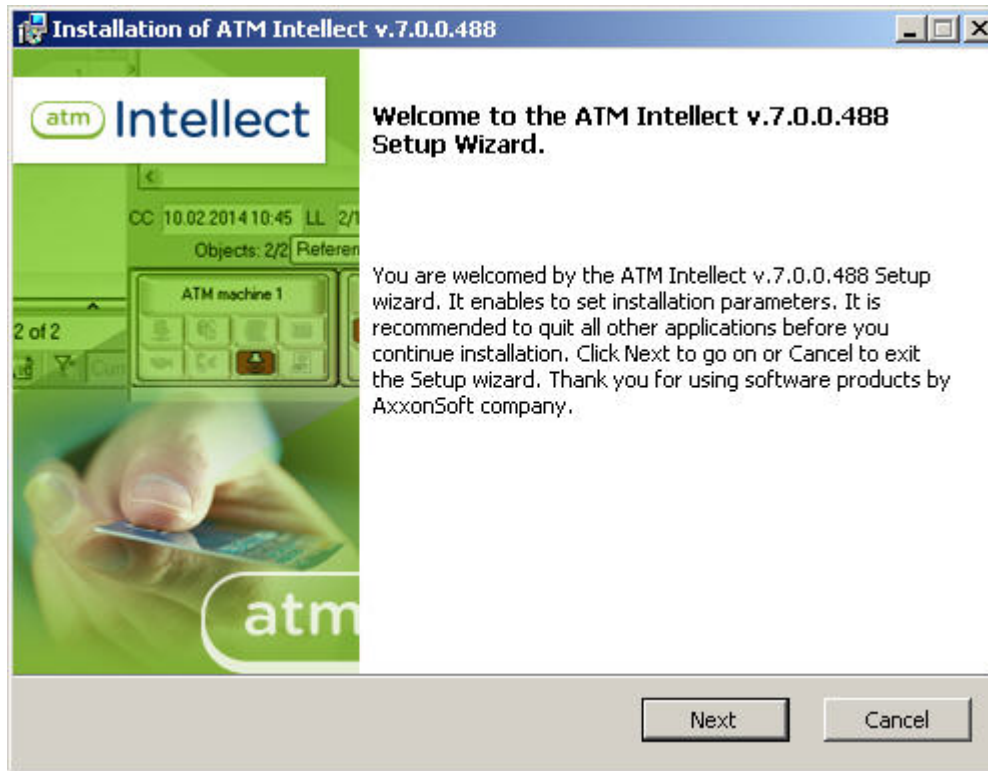
Installation steps for ATM-Intellect Pro

To install *ATM-Intellect* in the *ATM-Intellect Pro* configuration, do the following:

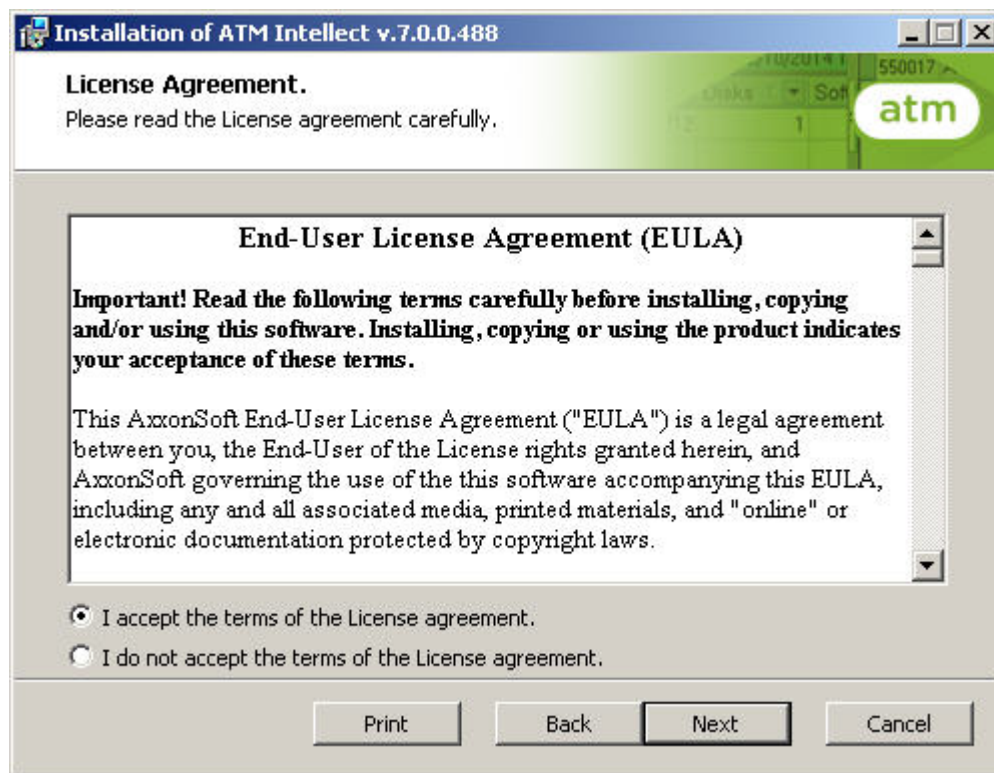
1. Start the file `setup.exe` from the installation kit. The installation wizard informs that the installation process has begun



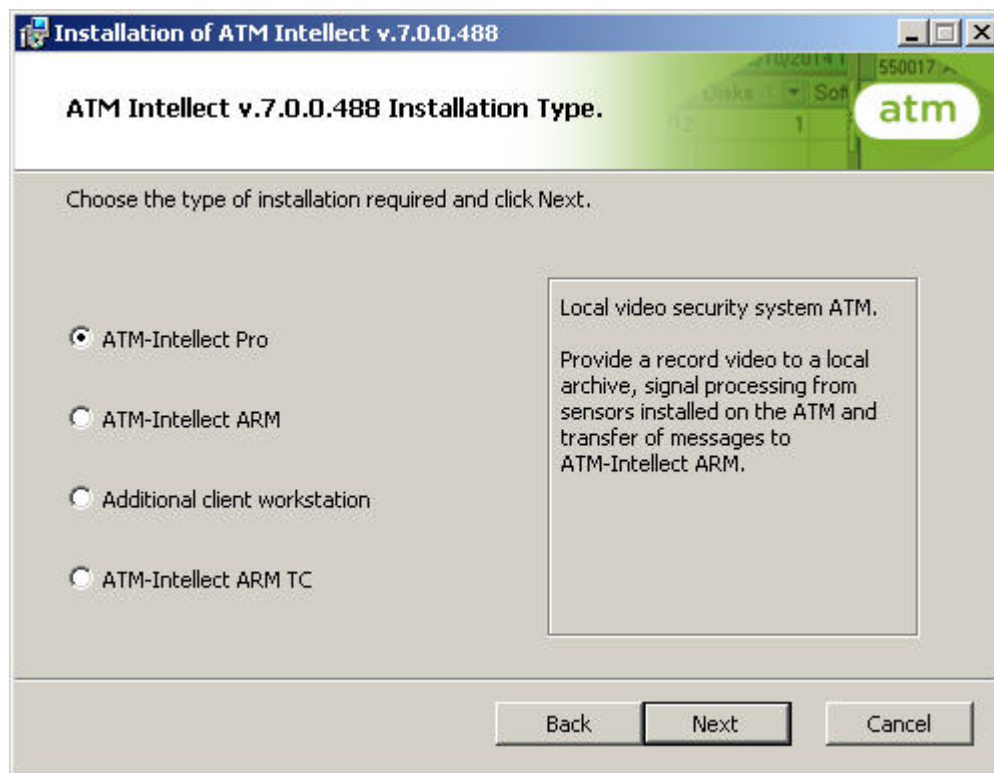
2. You are prompted to start installation. Click the **Next** button.



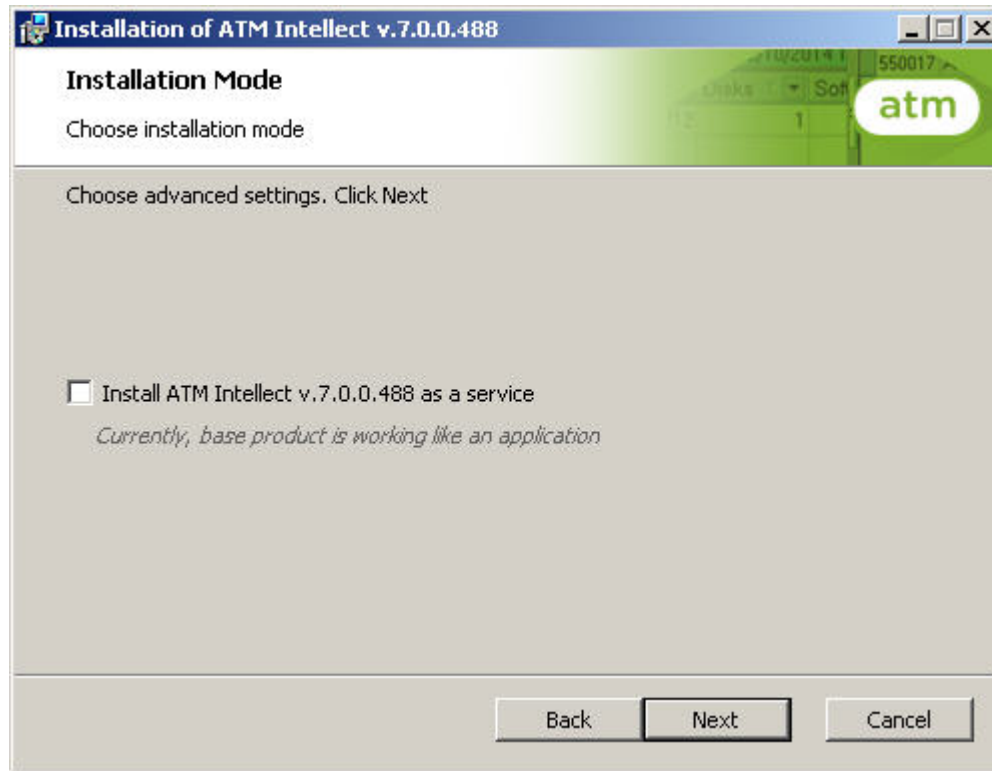
3. In the **License agreement** window read the terms of the End-User License Agreement . Set the switch into the **I accept the terms in the license agreement** position and press **Next**.



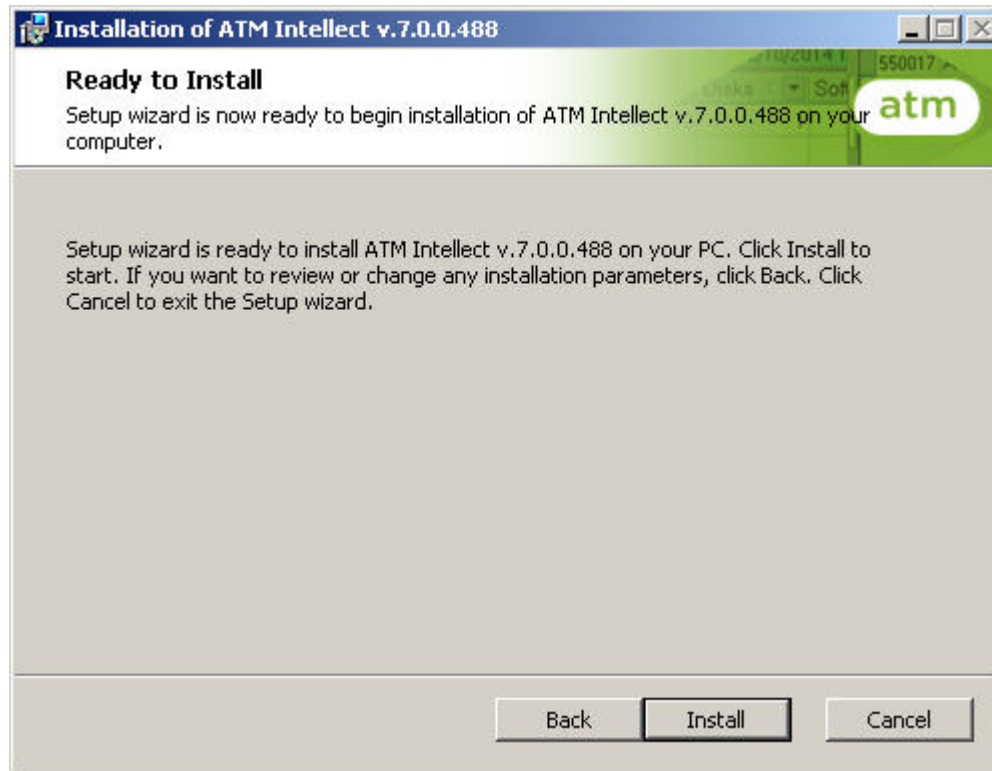
4. Set the **ATM-Intellect Pro** installation type. Click **Next**.



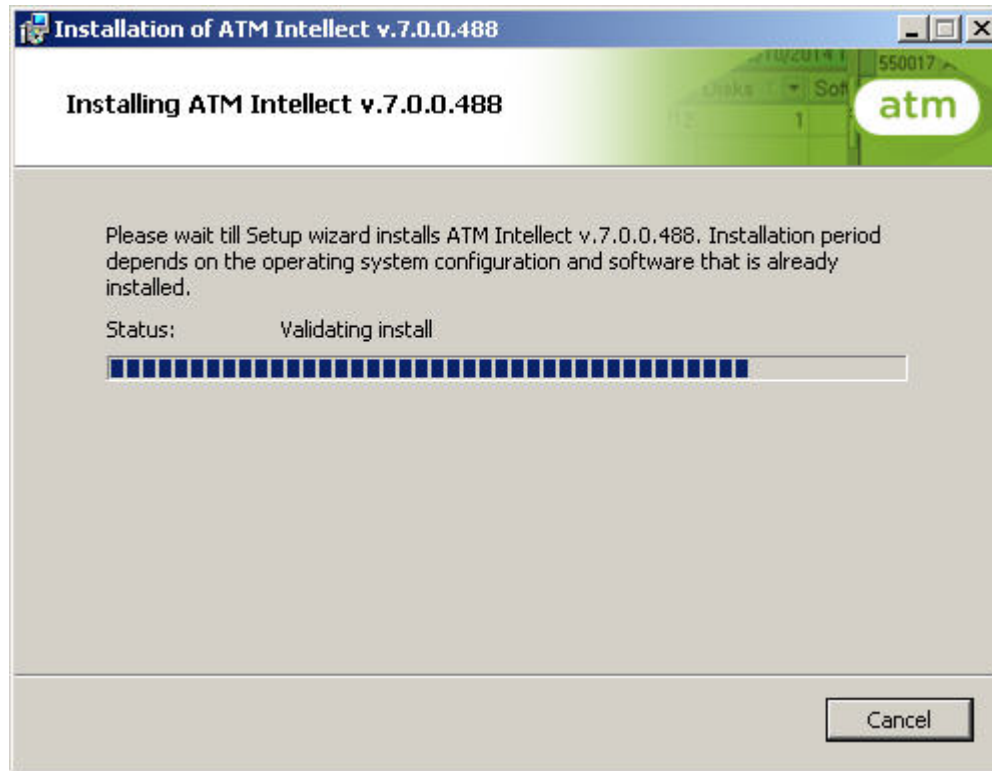
5. If base *Intellect* software is installed as service, set the **Install ATM-Intellect as a service** checkbox. Information about *Intellect* software installation type is given under the checkbox. Click **Next**.



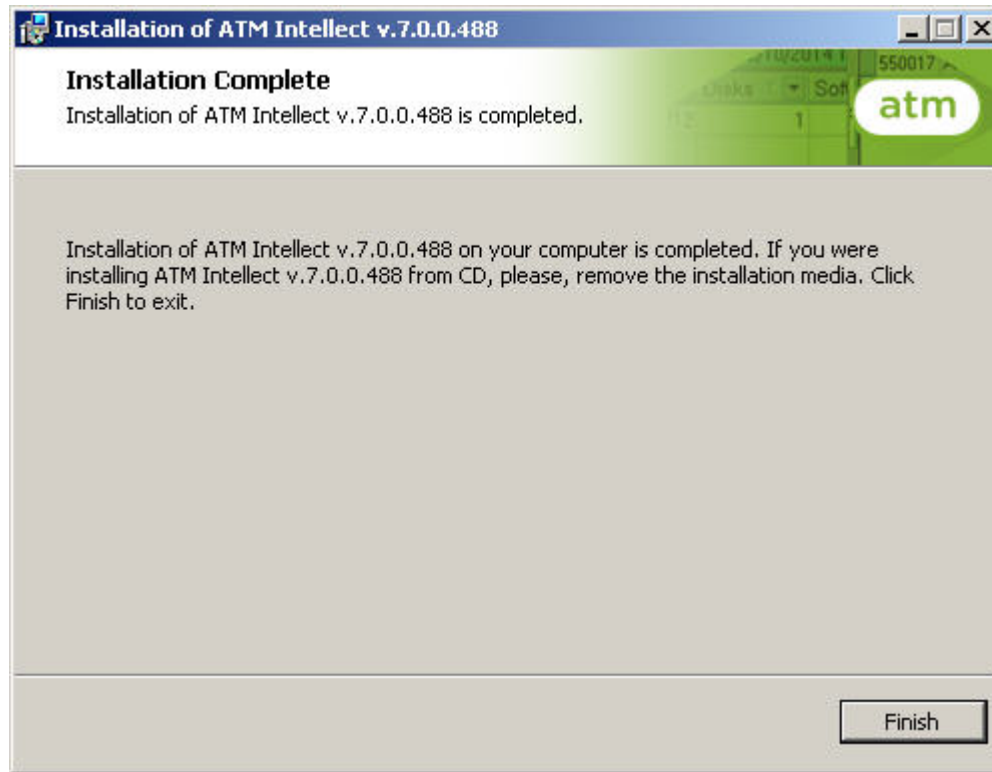
6. A dialog box to confirm installation will be displayed. Click **Install** to run installation process.



7. Installation begins.



8. After the final installation tasks are completed, the wizard informs that the software has been successfully installed.



ATM-Intellect Pro installation is completed.

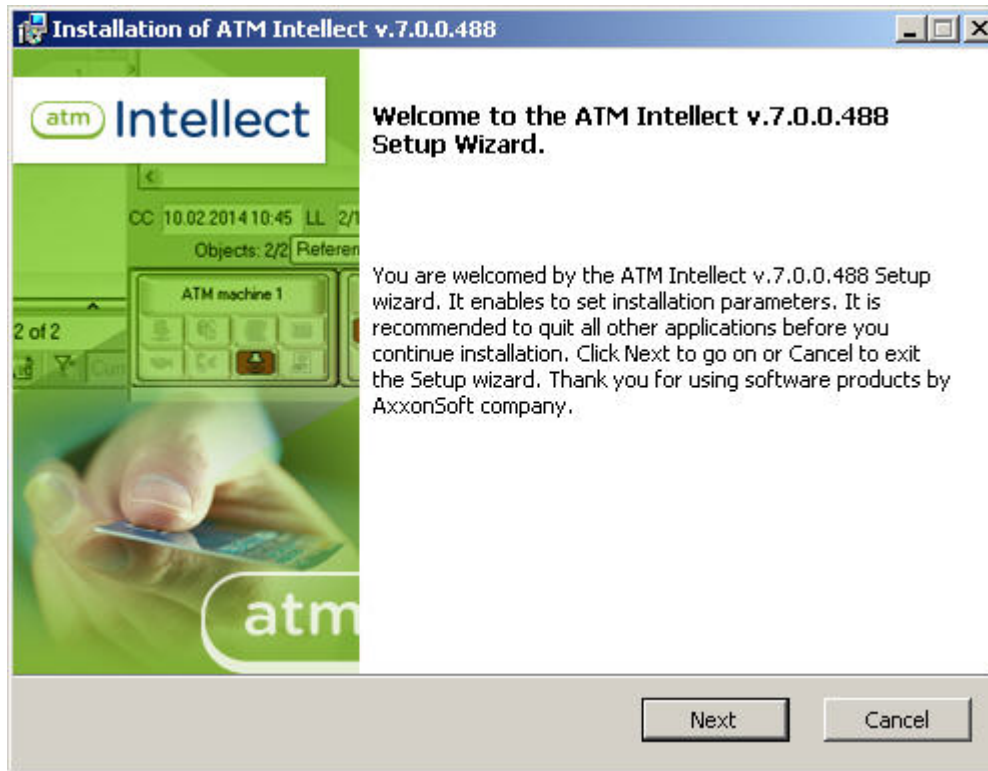
Installation steps for Additional client workstation

To install *ATM-Intellect* in the *Additional client workstation* configuration, do the following:

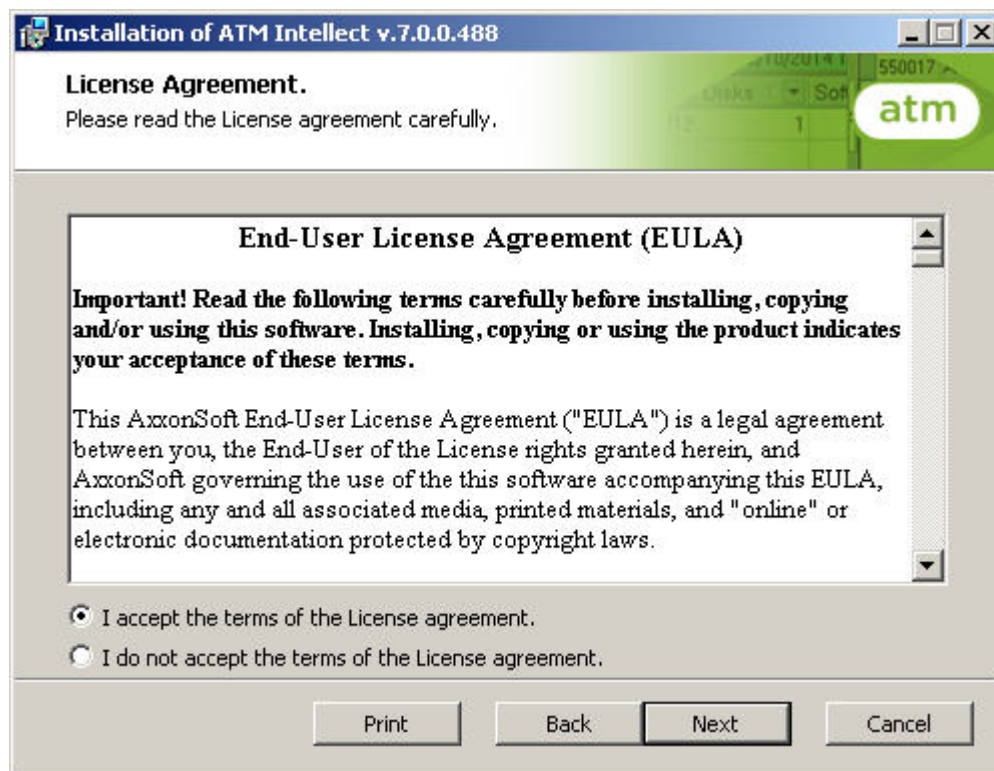
1. Start the file `setup.exe` from the installation kit. The installation wizard informs that the installation process has begun.



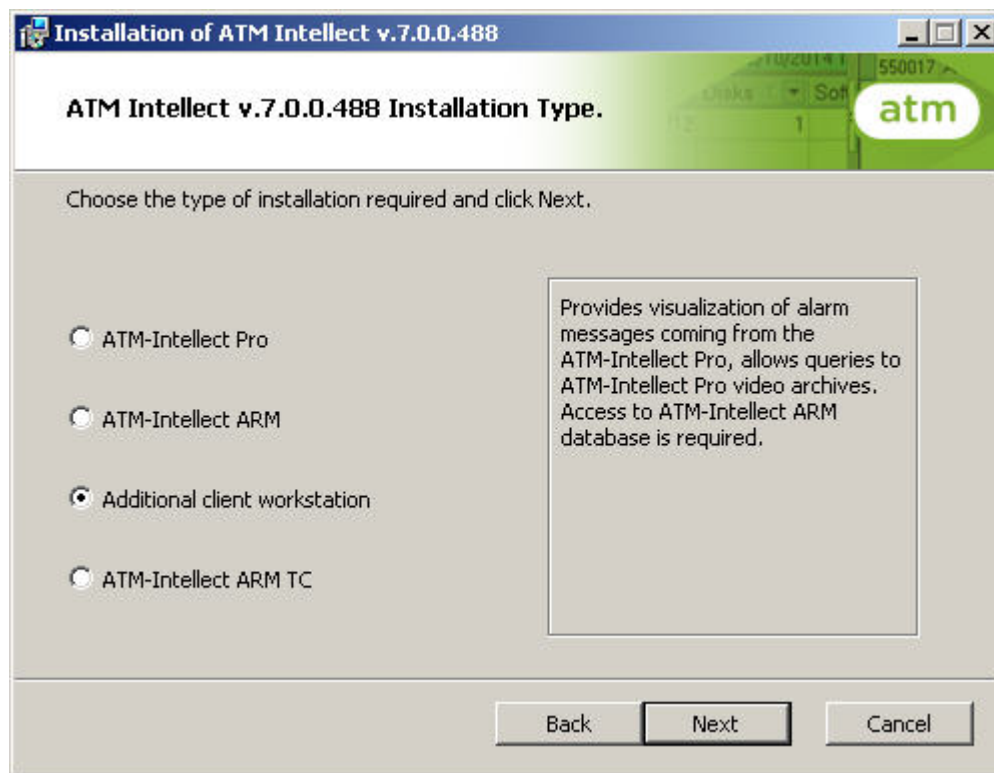
2. You are prompted to start installation. Click the **Next** button.



3. In the **License agreement** window read the terms of the End-User License Agreement . Set the switch into the **I accept the terms in the license agreement** position and press **Next**.



4. Set the **Additional client Workstation** installation type. Click **Next**.



5. A dialog box to configure database connection will be displayed. Select the database server name and set up the connection parameters.

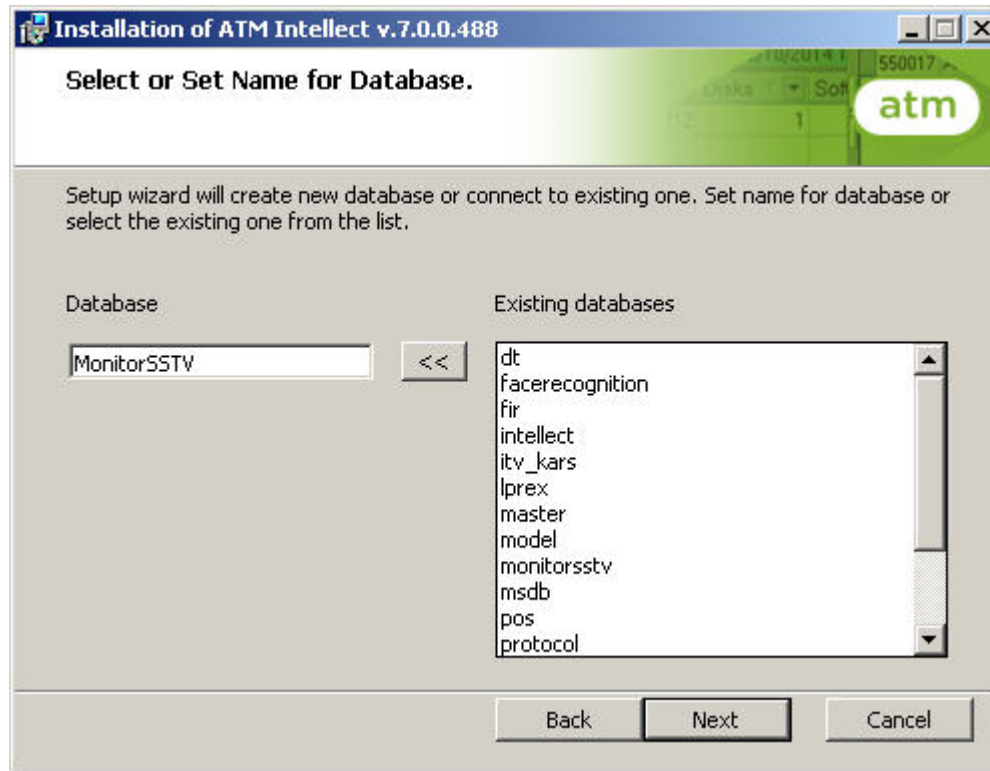
The screenshot shows a Windows-style installation window titled "Installation of ATM Intellect v.7.0.0.488". The window has a green header bar with the "atm" logo on the right. The main content area is titled "Select Database Server" and contains the instruction "Select database Server and authentication method." Below this, it says "Select database Server from the drop-down list." and shows a dropdown menu with "(local)\SQLEXPRESS" selected. Further down, it says "Choose user identification procedure based on the present user account or SQL Server identity check." and has two radio buttons: "Windows user account" (unselected) and "Use the following user name and password:" (selected). Below the radio buttons are two text input fields: "User name" with "sa" entered and "Password" with three dots (masked). At the bottom right are three buttons: "Back", "Next", and "Cancel".

6. In the **Database** field specify the name of existing database or select it in the list of databases, which are created in the server, and click <<.



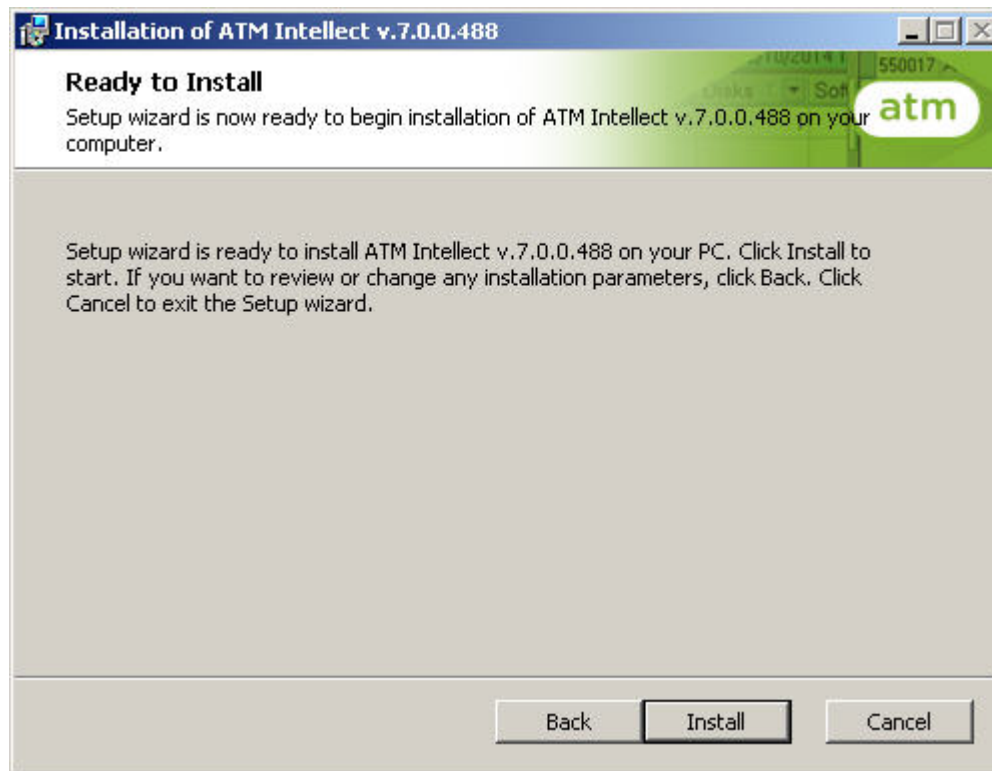
Note

The default name of the database is MonitorSSTV and its files are located in the SQL Server folder.

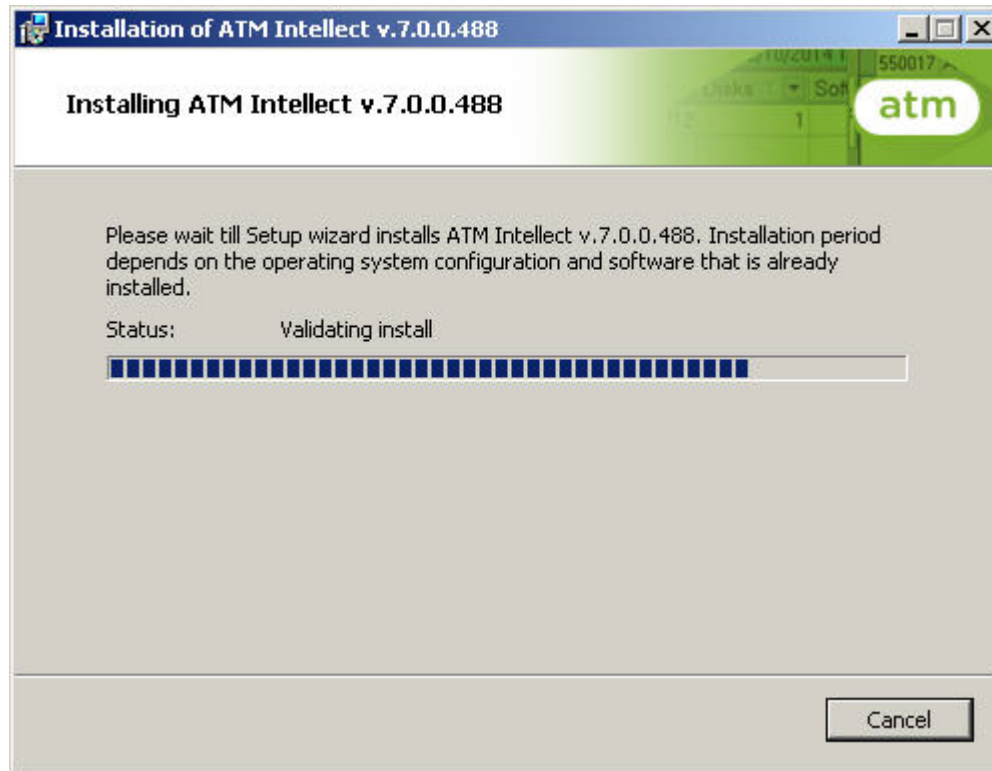


Click **Next**.

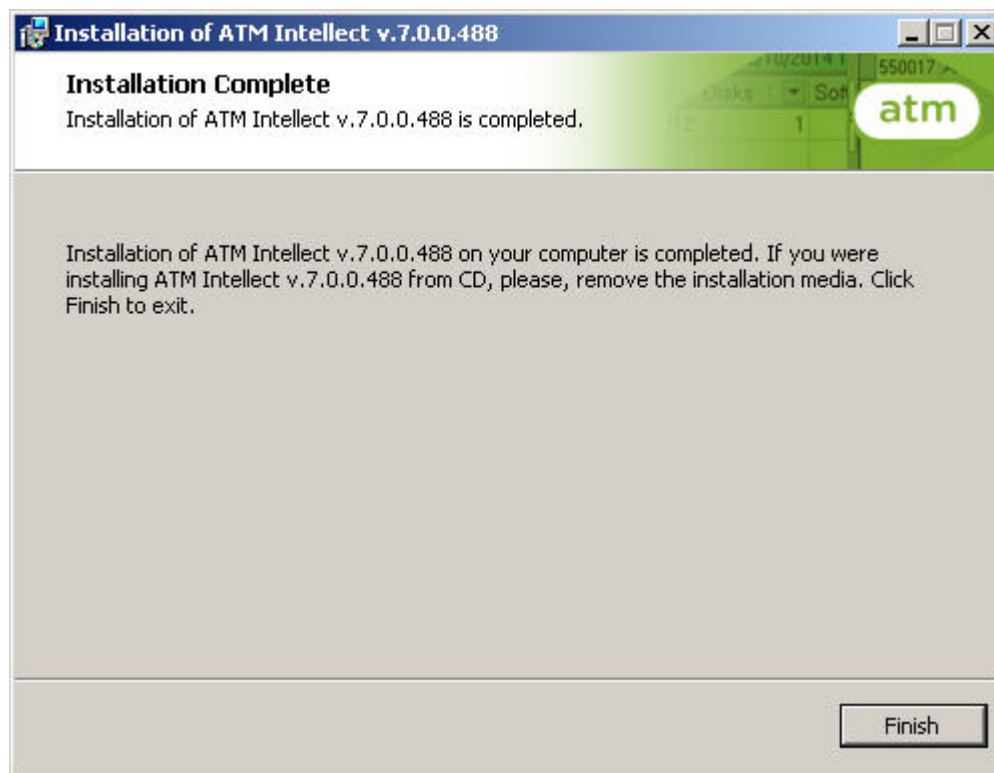
7. Click **Install** on the next pane.



8. Installation begins.



9. After the final installation tasks are completed, the wizard informs that the software has been successfully installed.



Additional client Workstation installation is completed.

ATM-Intellect Workstation configuration

ATM-Intellect Workstation configuration is performed in the **System settings** dialog box. Operation in it described in the [INTELLECT Software Package. Administrator's Guide](#).

ATM-Intellect Workstation configuring sequence



Note.

All *ATM Intellect* components (*ATM-Intellect Workstation*, *ATM-Intellect Workstation TC* and *ATM-Intellect Pro*) can operate in distributed architecture of the [digital video surveillance system](#). In this case all of these objects shall be configured locally, not remotely.

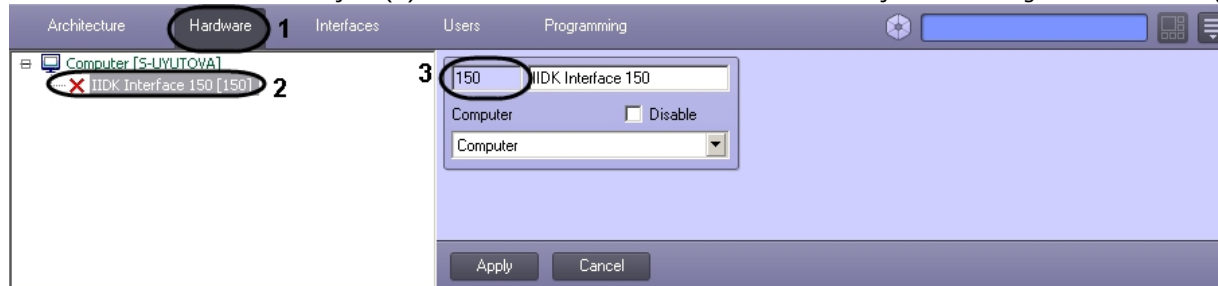
ATM-Intellect Workstation configuration is performed in following order:

1. Creating objects in the hardware tree.
2. Setting up a connection with the other functional subsystems.
3. Setting the Event Log.
4. Configuring data monitoring.
5. Setting reactions on getting images and video clips.

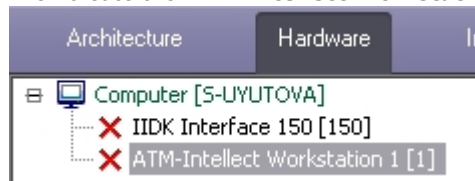
Creating ATM-Intellect Workstation objects in the hardware tree

Objects creation in the hardware tree is performed as follows:

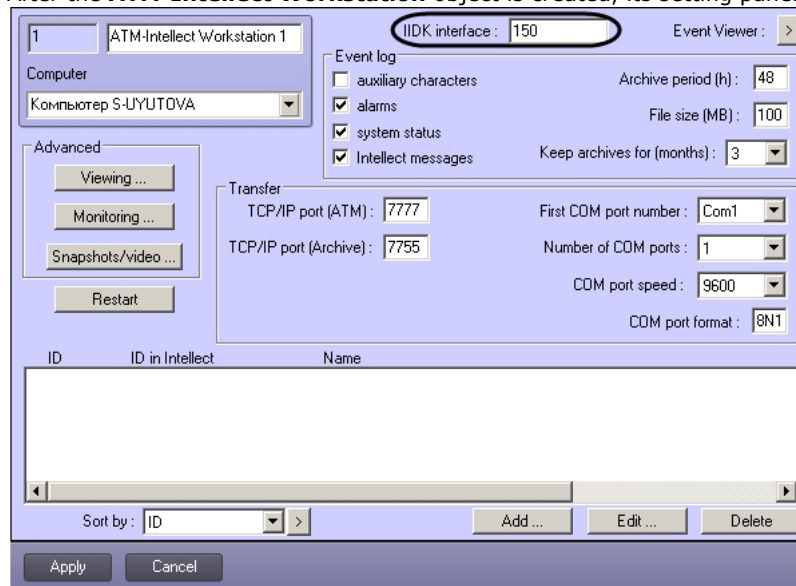
1. Go to the **Hardware** tab of the **System settings** dialog box (1).
2. Create the **IIDK Interface** object (2). The ID number of the **IIDK Interface** object must be greater than 100 (3).



3. Then create the **ATM-Intellect Workstation** object.

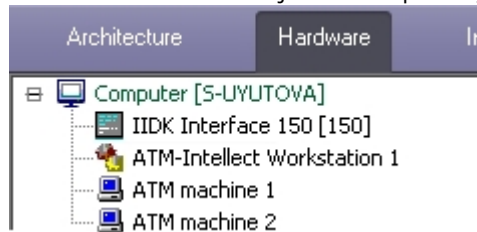


4. After the **ATM-Intellect Workstation** object is created, its setting panel appears in the right of **System settings** dialog box.



5. In the **IIDK interface** field enter the identification number of the **IIDK interface** object created on step 2.

6. Create **ATM machine** objects corresponding to the connected ATMs.



Note.
The address of the ATM can be specified as its name.

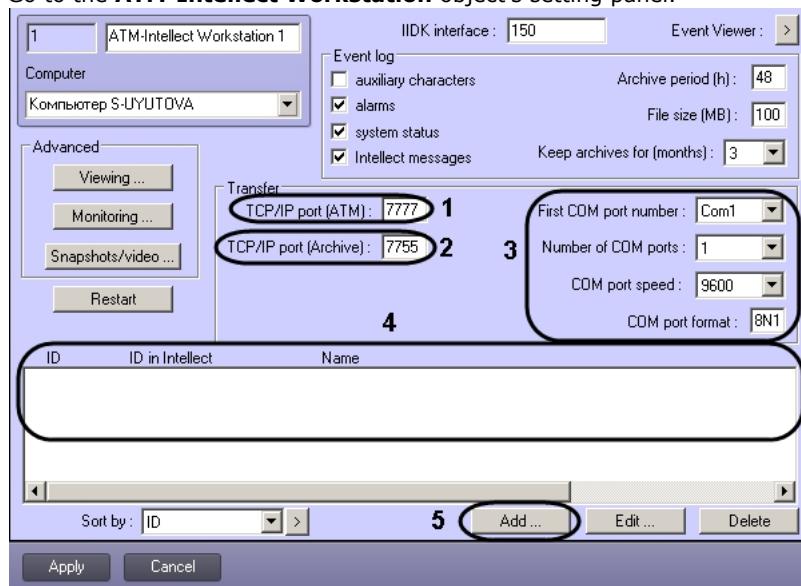
Objects creation is completed.

Setting the **ATM-Intellect Workstation** connection parameters

ATM-Intellect Workstation supports simultaneous operations with objects via the TCP/IP protocol and the RS232 protocol.

Setting up a connection is performed as follows:

1. Go to the **ATM-Intellect Workstation** object's setting panel.



2. Set up TCP/IP connection:
 - a. In the **TCP/IP port (ATM)** field enter the TCP/IP port for communication with remote objects (1).
 - b. In the **TCP/IP port (Archive)** field enter the TCP/IP port for communication with the module *Search in archive* (2).
3. For operations via the RS232 protocol, the following parameters are configured: **First COM port number, Number of COM ports, COM port speed, COM port format** (3).

4. Specify the list of ATMs (4):



Note.

In the hardware tree must be objects corresponding to all ATMs connected to the video surveillance system.

a. Press **Add...** button (5). A dialog box for adding ATM will appear.

The dialog box is titled 'Add ATM' and contains three text input fields. The first field is labeled 'ID' and contains the value '1'. The second field is labeled 'ID in Intellect' and contains the value '550016'. The third field is labeled 'Name' and contains the value 'ATM machine 1'. Below the fields are two buttons: 'OK' and 'Cancel'. The 'OK' button is circled and labeled with the number 4.

b. The **ID** field must be the same as the **ID** field in the **Surveillance object** settings (a child object of **ATM-Intellect Pro**) (1).

c. The fields **ID in Intellect** (2) and **Name** (3) must match the **Number** and **Name** fields of the corresponding **ATM machine** object.

d. Press **OK** (4).

e. Repeat steps 4.a-4.d for all required ATMs.

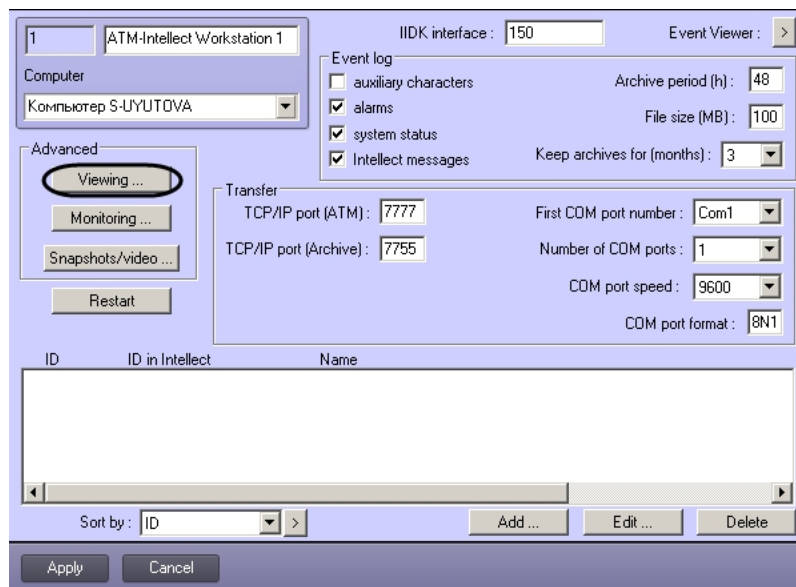
5. Press **Apply**.

Setting up a connection is completed.

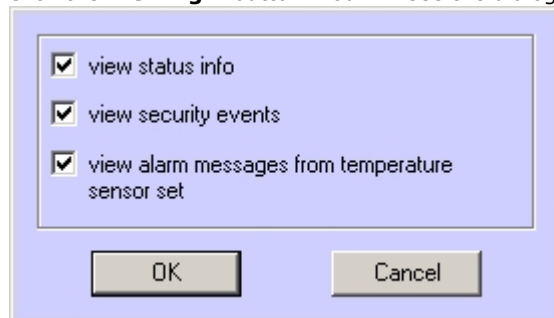
Specifying ATM-Intellect Workstation information for the Event Viewer

To specify information to view in the Event viewer interface window, do the following:

1. Go to the **ATM-Intellect Workstation** setting panel.



- Click the **Viewing...** button. You will see the dialog box to specify information which will be viewed on the **Event Viewer** pane of Intellect.



- Check the required events.
- Press **OK**.

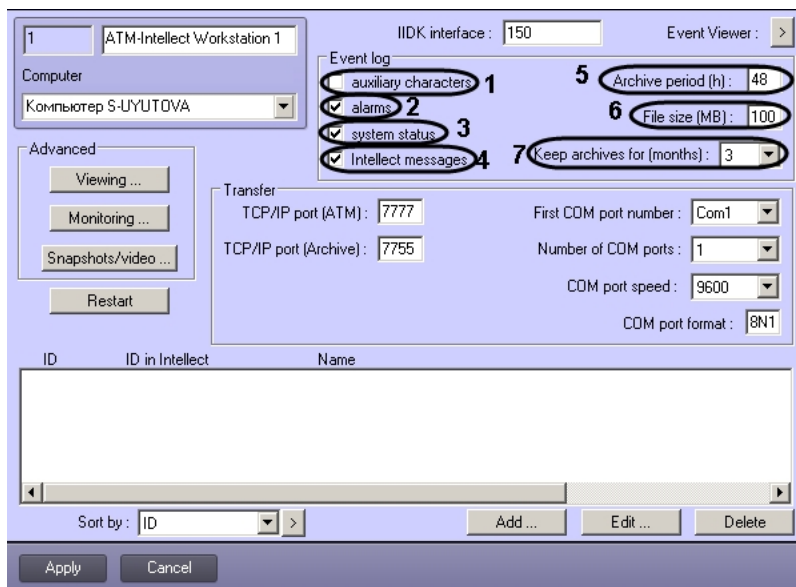
Specifying information for Event Viewer window is completed.

Setting up ATM-Intellect Workstation event log

Event log enables configuration of the logging level of *ATM-Intellect Workstation*.

The main event log is stored in the <Intellect software installation folder>\VHost in the file vsrvYYMMDD.log, where YY is the year, MM is the month and DD is the day

To configure the Event log set up the following parameters on the *ATM-Intellect Workstation* object setting panel:

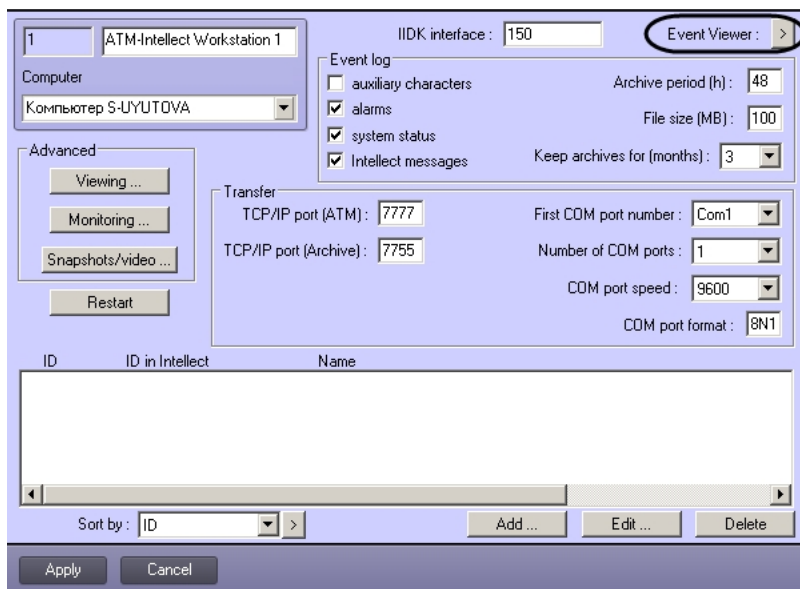


1. **Auxiliary characters.** Set the checkbox to log special characters of the transmitting level.
2. **Alarms.** Set the checkbox to log alarm events (triggering of the vibration sensor, temperature sensor and opening lock under duress sensor).
3. **System status.** Set the checkbox to log events related to the system status.
4. **Intellect messages.** Set the checkbox to log messages from Intellect. The information is kept in the installation folder of the software in the file video.log.
5. **Archive period (h.).** Enter the time period for archiving the event log (in hours). Archives are saved in the DATA subfolder, in the following format:
 namelog_yymmddhhmmss.gz, where
 - a. namelog is the name of the archived event log;
 - b. yy is the year of archive creation;
 - c. mm is the month of archive creation;
 - d. dd is the day of archive creation;
 - e. hh is the hour of archive creation;
 - f. mm is the minute of archive creation;
 - g. ss is the second of archive creation.
6. **File size (MB).** Enter the size of the event log file (in megabytes) after which the file will be archived. This setting overrides the value in the **Archiving period** field.
7. **Keep archives for (months).** Select from the list the term of storage for the archived event log, in months (from 1 to 24). After this term expires, the archives are deleted.

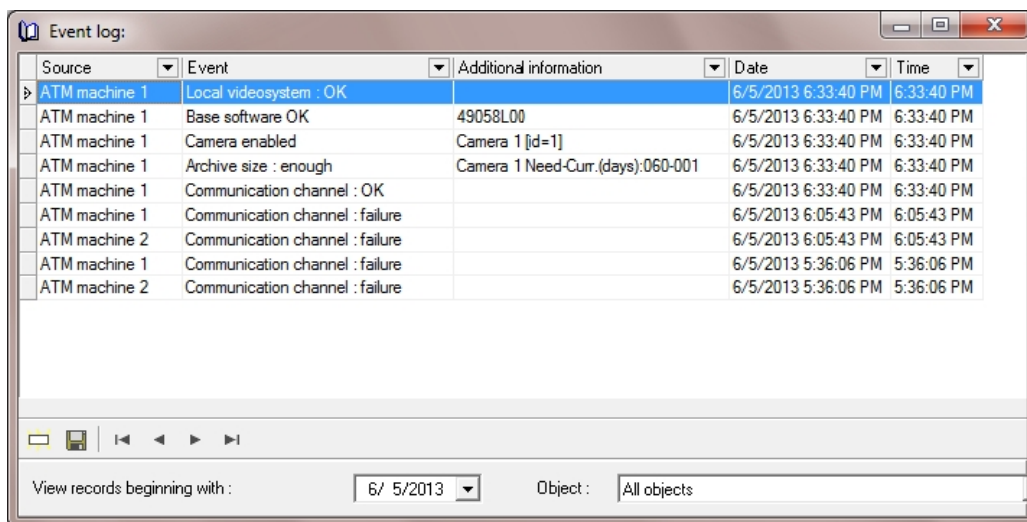
ATM-Intellect Workstation. The Event log utility

The disadvantage of viewing information via the *Event Viewer* is clearing the screen on each Intellect restart. It is impossible to see what was on before the system restart. The additional *Event log* utility is required in such cases. This utility operates the database directly and allows to view information from the whole length of time used to keep the event log in the database.

To start the *Event log* utility, click the **Event Viewer** button on the **ATM-Intellect Workstation** settings pane.



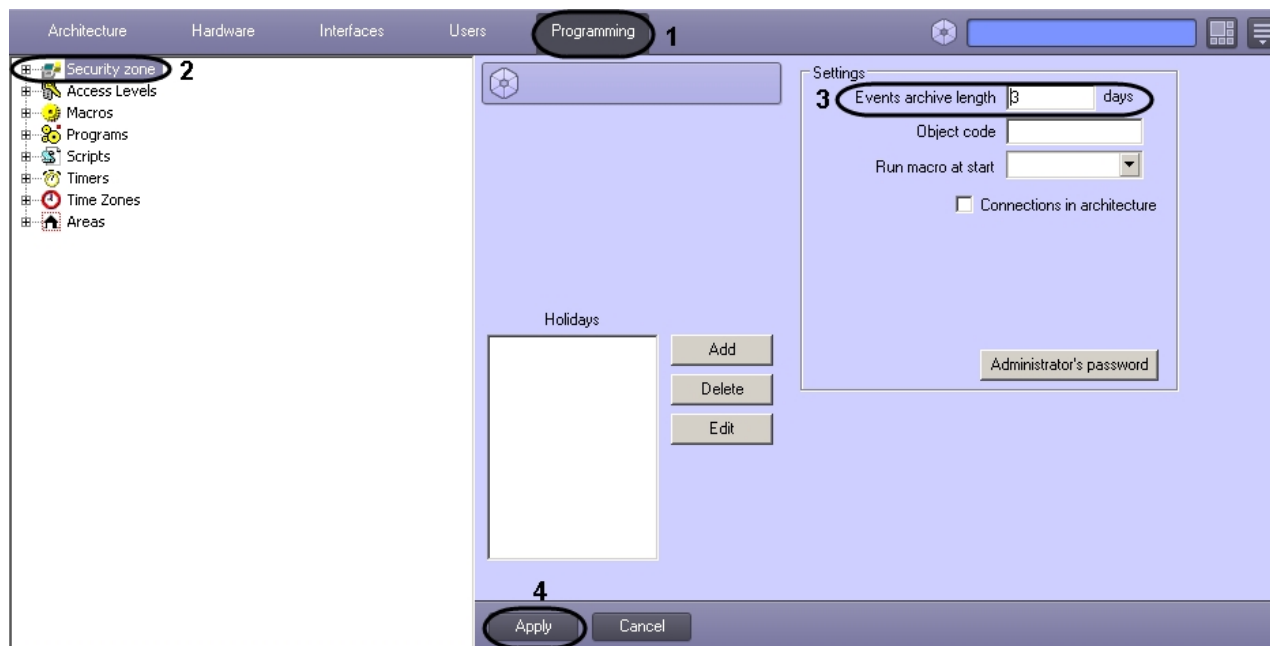
The *Event log* utility allows to sort and filter data.



Specifying storage time for ATM-Intellect Workstation event log

To specify the term of keeping the event log in the database do the following:

1. Go to the **Programming** tab of the **System settings** dialog box (1).



2. Go to the Security zone object setting panel (2).
3. Specify the term of keeping the event log in the **Event archive length** parameter (3).
4. Press **Apply** (4).

Specifying the term of keeping the event log is completed.

Setting up data monitoring

Data monitoring is set up as follows:

1. Go to the **ATM-Intellect Workstation** setting panel.

1 ATM-Intellect Workstation 1

Computer: Комبيوتر S-UYUTOVA

Advanced:

- Viewing ...
- Monitoring ...**
- Snapshots/video ...
- Restart

IIDK interface: 1150 Event Viewer: >

Event log:

- ☐ auxiliary characters
- ☒ alarms
- ☒ system status
- ☒ Intellect messages

Archive period (h): 48 File size (MB): 100 Keep archives for (months): 3

Transfer:

TCP/IP port (ATM): 7777 First COM port number: Com1

TCP/IP port (Archive): 7755 Number of COM ports: 1

COM port speed: 9600 COM port format: 8N1

ID	ID in Intellect	Name
----	-----------------	------

Sort by: ID > Add ... Edit ... Delete

Apply Cancel

- Click the **Monitoring...** button. The dialog box to set up monitoring appears.

CSC: 1

☒ Forwarding alarm messages

IP: 0 . 0 . 0 . 0

TCP port: 7777

ATM-Intellect Workstation TC: 2

☐ Forwarding status info

☐ Forwarding alarm messages from temperature sensor set

IP: 0 . 0 . 0 . 0

TCP port: 7777

Data loader control: 3

ID: 77777777

Threshold (files): 3000 4

5

OK Cancel

- If Central Security Console (CSC) is installed on CCRVS, enable the **forwarding alarm messages** option and specify the corresponding IP address and TCP port (1).

**Note.**

CSC and CCRVS are the *ATM-Intellect* extension and are not included into *ATM-Intellect* installation kit - see [ATM-Intellect description](#)

4. If system health information of the local video surveillance systems must be transmitted to *ATM-Intellect Workstation TC*, enable the **forwarding status info** option in the opened pane (2). Specify the **IP address** and the **TCP port** of the PC on which *ATM-Intellect Workstation TC* is installed.
5. To control the normal operation of the [Data loader](#) of *ATM-Intellect Workstation*, the following configurable parameters are used:
 - a. **ID** is the unique ID number of *ATM-Intellect Workstation* – (3).
 - b. **Threshold (files)** is the number of files in the exchange folder of the *Data loader*, on exceeding which the message *Software error (Data loader)* is sent to *ATM-Intellect Workstation TC* (4).
6. Press **OK** (5).

Configuring data monitoring is completed.

Setting up the reaction on receiving images and clips

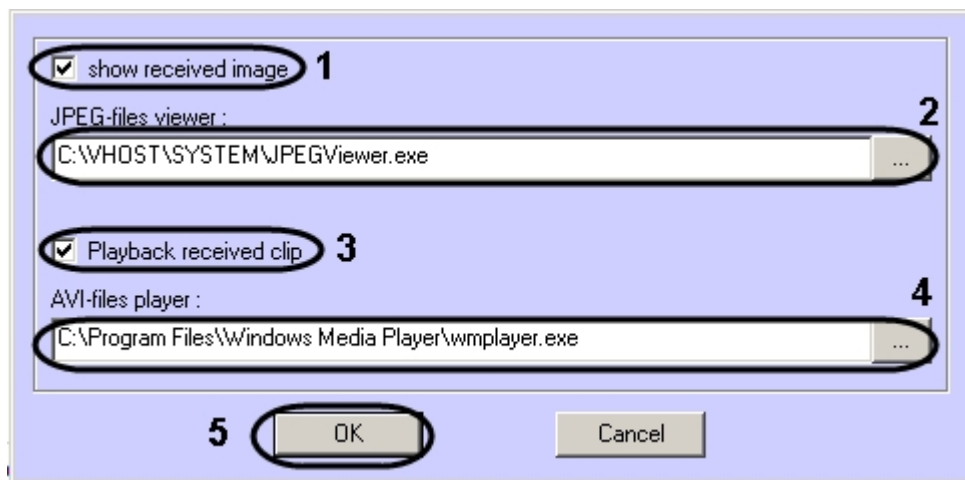
To configure visualization of snapshots or video clips received with alarms on sensors (see [Operator's Guide](#), section [Viewing video data on alarms](#)), do the following:

**Note.**

This setting does not affect the reception of the video data by **Search in archive** interface object and Data loader.

1. Go to the **ATM-Intellect Workstation** setting panel.

2. Click the **Snapshots/video...** button. A dialog box appears.



3. If you need to open received image set the following parameters:
 - a. Set the **show received image** checkbox (1).
 - b. Specify the full path to the application used to open received JPEG-files (2).
4. If you need to open received video clip set the following parameters:
 - a. Set the **Playback received clip** checkbox (3).
 - b. Specify the full path to the application used to play received video files (4).



Note.

AVI-files player setting is only used for compatibility with ATM-Intellect Pro older versions which transmitted avi-files. Newer versions transmit files in the Intellect video archive format, which are always opened with the Axxon Player utility.

5. Press **OK** (5).

Configuring the program for cases when snapshots or video clips are received is completed.

Working with ATM-Intellect Workstation without Windows administration rights

To allow the user not added to the Administrators group in the Windows operating system to work correctly with *ATM-Intellect Workstation*, make sure the following conditions are fulfilled:

1. The user must have full access to the *ATM-Intellect Workstation* registry section:
HKEY_LOCAL_MACHINE\Software\BitSoft for 32-bit system
(HKEY_LOCAL_MACHINE\Software\Wow6432Node\BitSoft for 64-bit).
2. The user must have full right on the **Export** folder. The path to this folder is stored in the ExportPath parameter in the following registry section:
HKEY_LOCAL_MACHINE\Software\BitSoft\VHOST\VHostService for 32-bit system
(HKEY_LOCAL_MACHINE\Software\Wow6432Node\BitSoft\VHOST\VHostService for 64-bit).

ATM-Intellect Workstation TC configuration

ATM-Intellect Workstation TC configuration is performed in the **System settings** dialog box. Operation in it is described in the [INTELLECT Software Package. Administrator's Guide](#).

ATM-Intellect Workstation TC configuring sequence



Note.

All *ATM Intellect* components (*ATM-Intellect Workstation*, *ATM-Intellect Workstation TC* and *ATM-Intellect Pro*) can operate in distributed architecture of the [digital video surveillance system](#). In this case all of these objects shall be configured locally, not remotely.

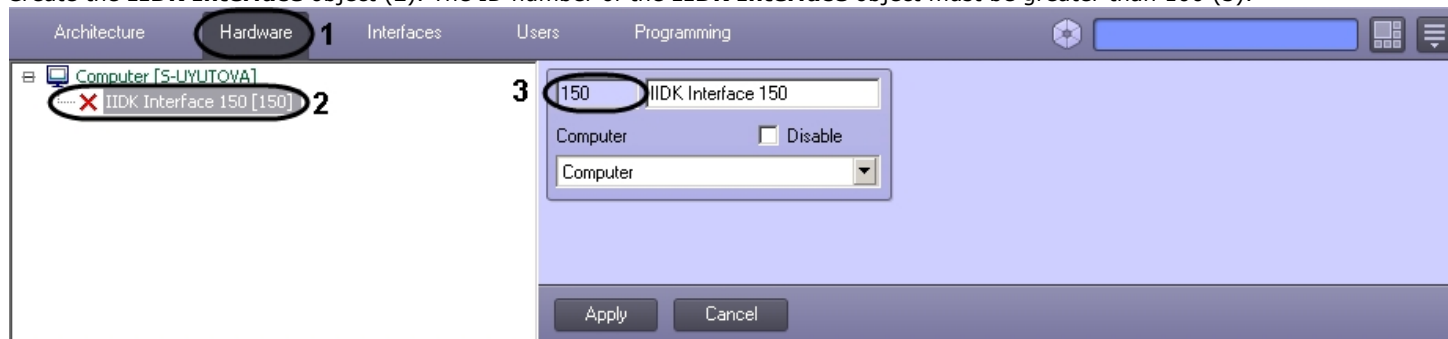
ATM-Intellect Workstation TC configuration is performed in following order:

1. Creating objects in the hardware tree.
2. Setting up a connection with the other functional subsystems.
3. Setting the Event Log.

Creating ATM-Intellect Workstation TC objects in the hardware tree

Objects creation in the hardware tree is performed as follows:

1. Go to the **Hardware** tab of the **System settings** dialog box (1).
2. Create the **IIDK Interface** object (2). The ID number of the **IIDK Interface** object must be greater than 100 (3).

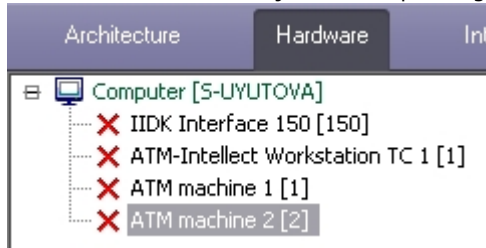


3. Then create the **ATM-Intellect Workstation TC** object.



4. After the **ATM-Intellect Workstation TC** object is created its setting panel appears in the right of **System settings** dialog box.

5. In the **IIDK interface** field enter the identification number of the **IIDK interface** object created on step 2.
6. Create **ATM machine** objects corresponding to the connected ATMs.



Note.
The address of the ATM can be specified as its name.

Objects creation is completed.

Setting the **ATM-Intellect Workstation TC** connection parameters

ATM-Intellect Workstation TC supports operations with *ATM-Intellect Workstation* via the TCP/IP protocol.

Setting up a connection is performed as follows:

1. Go to the **ATM-Intellect Workstation TC** object's setting panel.

2. In the **TCP/IP port (ATM)** field enter the port for communication via the TCP/IP protocol with remote *ATM-Intellect Workstations* (1).
3. Specify the list of ATMs (2):

Note. In the hardware tree must be objects corresponding to all ATMs connected to the video surveillance system.

- a. Click **Add** (3). A dialog box for adding ATM will appear.

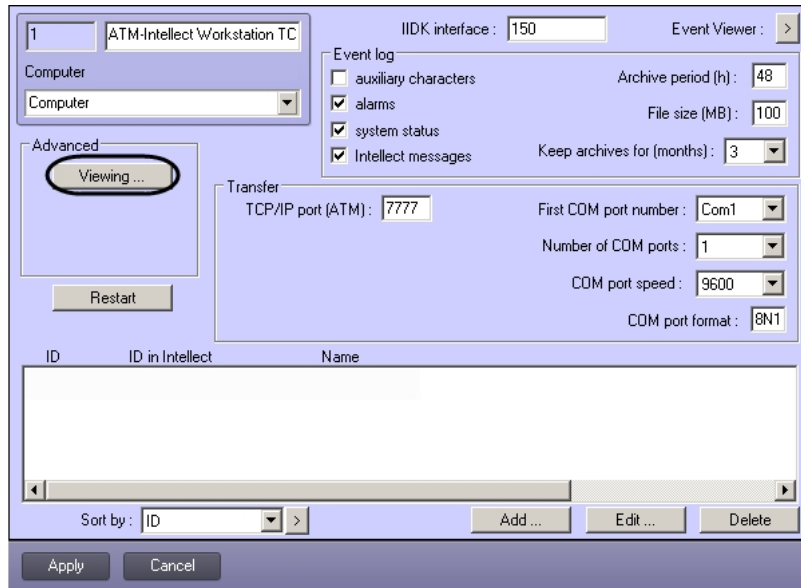
- b. The **ID** field must be the same as the **ID** field in the **Surveillance object** settings (a child object of **ATM-Intellect Pro**) (1).
 - c. The fields **ID in Intellect** (2) and **Name** (3) must match the **Number** and **Name** fields of the corresponding **ATM machine** object.
 - d. Press **OK** (4).
 - e. Repeat steps 3.a-3.d for all required ATMs.
4. Click **Apply** to save settings.

Setting up a connection is completed.

Specifying the ATM-Intellect Workstation TC information for the Event Viewer

To specify information to view in the Event viewer interface window, do the following:

1. Go to the **ATM-Intellect Workstation TC** setting panel.



2. Click the **Viewing...** button. You will see the dialog box to specify information which will be viewed on the *Event Viewer* pane of Intellect.



3. Check the required events.
4. Click **OK**.

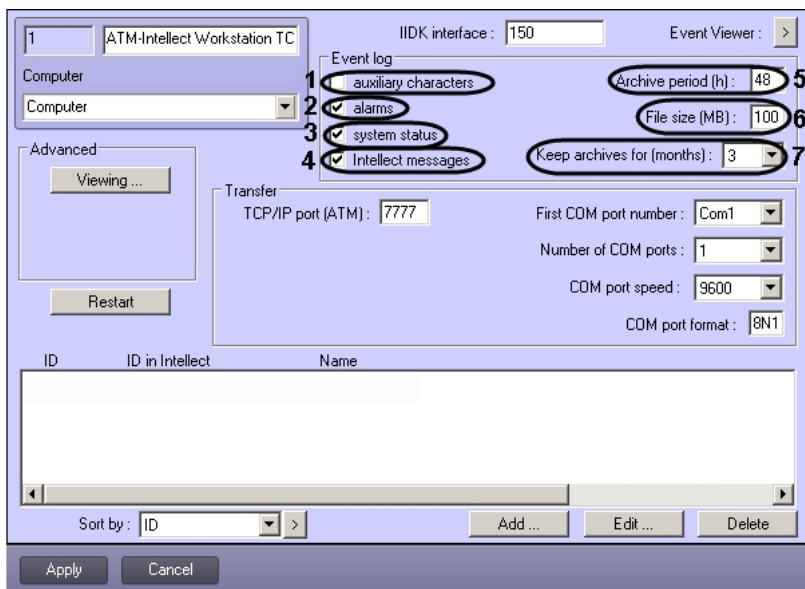
Specifying information for Event Viewer window is completed.

Setting up ATM-Intellect Workstation TC event log

Event log enables configuration of the logging level of *ATM-Intellect Workstation TC*.

The main event log is stored in the <Intellect software installation folder>\VHost in the vsrvYYMMDD.log file, where YY is the year, MM is the month and DD is the day.

To configure the Event log set up the following parameters on the **ATM-Intellect Workstation TC** object settings panel:



1. **Auxiliary characters.** Set the checkbox to log special characters of the transmitting level.
2. **Alarms.** Set the checkbox to log alarm events.



Attention!

ATM-Intellect Workstation TC receives the equipment-caused alarms only: UPS alarms, alarms caused by normal or abnormal PC reboot, signals from thermal sensors (DS18S20). ATM-Intellect Workstation TC does **not** receive sensor alarms.

3. **System status.** Set the checkbox to log events related to the system status.
4. **Intellect messages.** Set the checkbox to log messages from Intellect. The information is kept in the installation folder of the software in the file video.log.
5. **Archive period (h.).** Enter the time period for archiving the event log (in hours). Archives are saved in the DATA subfolder, in the following format: namelog_yymmddhhmmss.gz, where
 - a. namelog is the name of the archived event log;
 - b. yy is the year of archive creation;
 - c. mm is the month of archive creation;
 - d. dd is the day of archive creation;
 - e. hh is the hour of archive creation;
 - f. mm is the minute of archive creation;
 - g. ss is the second of archive creation.
6. **File size (MB).** Enter the size of the event log file (in megabytes) after which the file will be archived. This setting overrides the value in the **Archiving period** field.
7. **Keep archives for (months).** Select from the list the term of storage for the archived event log, in months (from 1 to 24). After this term expires, the archives are deleted.

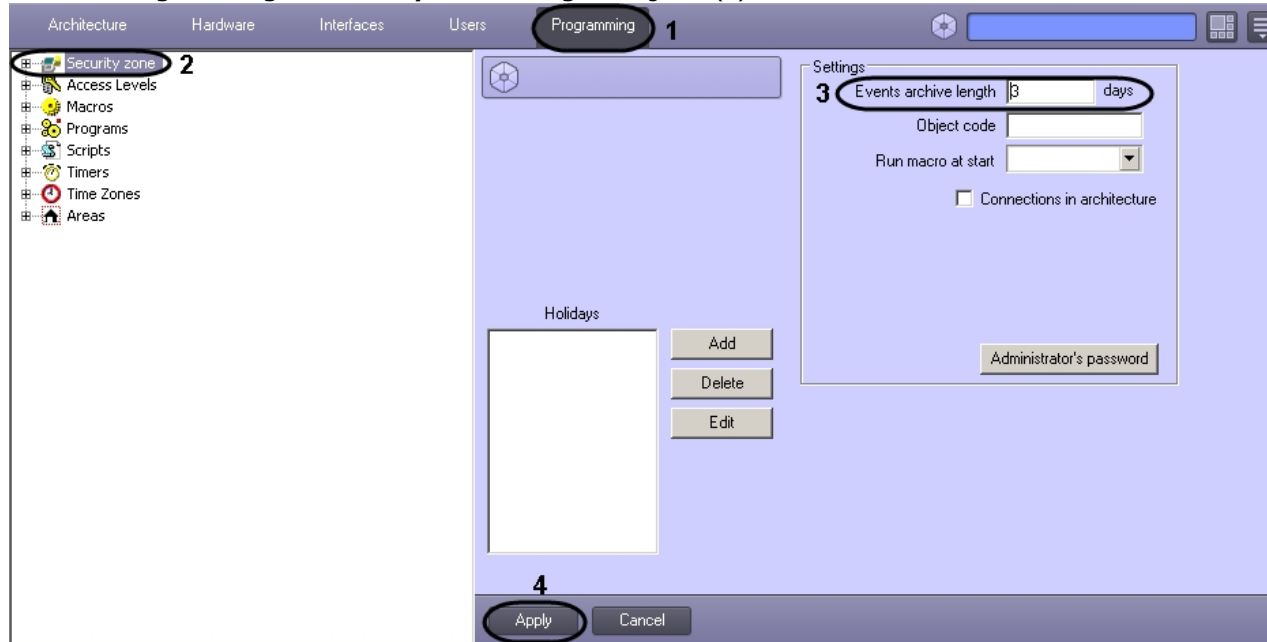
ATM-Intellect Workstation TC. The Event log utility

The disadvantage of viewing information via the *Event Viewer* is clearing the screen on each Intellect restart. It is impossible to see what was on before the system restart. The additional *Event log* utility is required in such cases. This utility operates the database directly and allows to view information from the whole length of time used to keep the event log in the database.

To start the *Event log* utility, click the **Event Viewer** button on the **ATM-Intellect Workstation** settings pane.

To specify the term of keeping the event log in the database do the following:

1. Go to the **Programming** tab of the **System settings** dialog box (1).



2. Go to the **Security zone** object setting panel (2).
3. Specify the term of keeping the event log in the **Event archive length** parameter (3).
4. Press **Apply** (4).

Specifying the term of keeping the event log is completed.

Working with ATM-Intellect Workstation TC without Windows administration rights

To allow the user not added to the Administrators group in the Windows operating system to work correctly with *ATM-Intellect Workstation TC*, make sure the user has the full access to the *ATM-Intellect Workstation* registry section:

HKEY_LOCAL_MACHINE\Software\BitSoft for 32-bit system

(HKEY_LOCAL_MACHINE\Software\Wow6432Node\BitSoft for 64-bit).

ATM-Intellect Pro configuration

ATM-Intellect Pro configuration is performed in the **System settings** dialog box. Operation in it is described in the [INTELLECT Software Package. Administrator's Guide](#).

ATM-Intellect Pro configuring sequence



Note.

All ATM Intellect components (*ATM-Intellect Workstation*, *ATM-Intellect Workstation TC* and *ATM-Intellect Pro*) can operate in distributed architecture of the [digital video surveillance system](#). In this case all of these objects shall be configured locally, not remotely.

ATM-Intellect Pro configuration is performed in following order:

1. Creating objects in the hardware tree.
2. Setting up the **ATM-Intellect Pro** object.
3. Setting up the **Surveillance object**.
4. Configuring UPS.



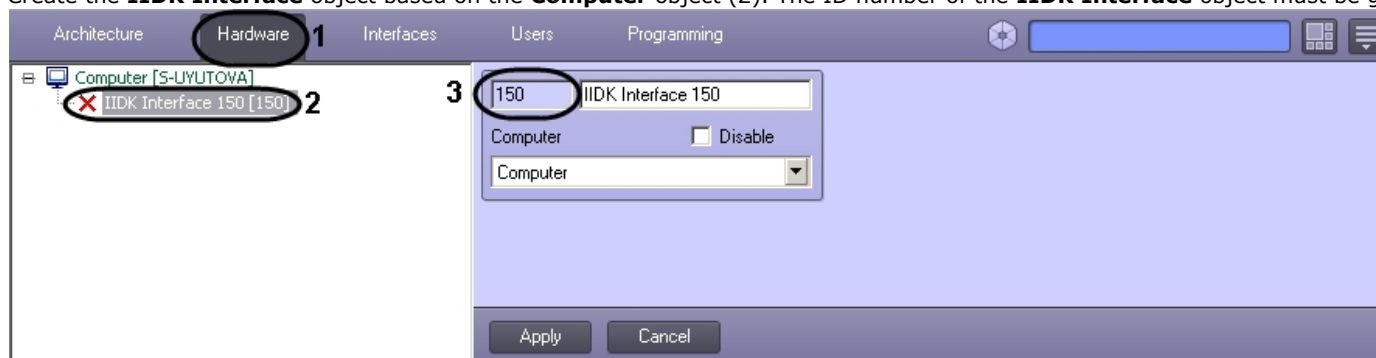
Attention!

Every time when *ATM Intellect Pro* is started, it checks for a **Backup** folder at the root of the disk on which Intellect is installed. This folder is created if it does not exist already. Do not delete this folder.

Creating ATM-Intellect Pro objects in the hardware tree

Objects creation in the hardware tree is performed as follows:

1. Go to the **Hardware** tab (1).
2. Create the **IIDK Interface** object based on the **Computer** object (2). The ID number of the **IIDK Interface** object must be greater than 100 (3).



3. Then create the **ATM-Intellect Pro** object based on the **Computer** object.



4. After the **ATM-Intellect Pro** object is created, it can be configured.

1 ATM-Intellect Pro 1 IIDK interface : 150

Computer
Computer

Event log ... Advanced ...

NO SURVEILLANCE OBJECT

To apply settings data,
it is required to restart Videosrv :

Restart

5. In the **IIDK interface** field enter the identification number of the **IIDK interface** object created on step 2.
6. Then create one or more child **Surveillance Object** objects for the **ATM-Intellect Pro** object



7. After the **Surveillance Object** object is created, it can be configured.



Note.

You also need to create **Video Capture Device**, **Camera** and **Sensor** objects corresponding to the connected equipment. Creation and configuration of these objects is described in the **INTELLECT Software Package. Installing and configuring security system components.**

Objects creation is completed.

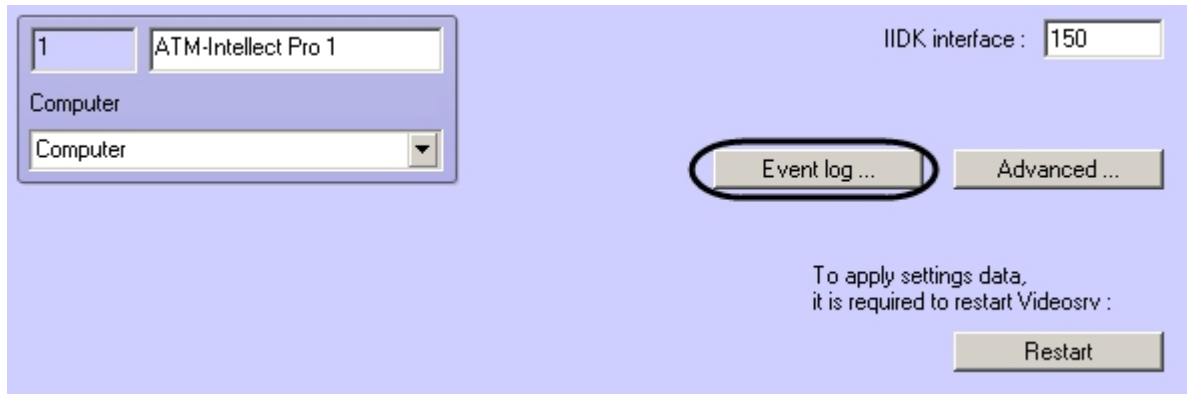
Configuration of the ATM-Intellect Pro object

Setting up ATM-Intellect Pro event log

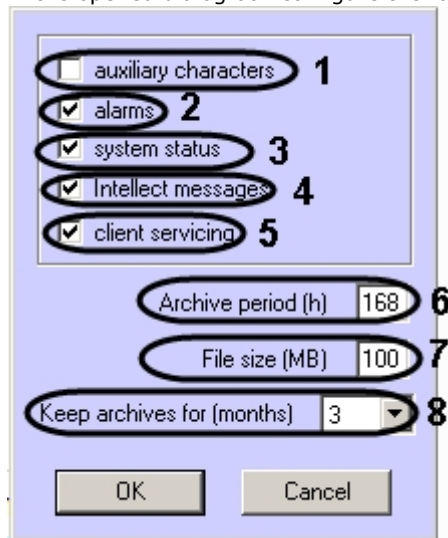
Event log enables configuration of the logging level of *ATM-Intellect Pro*.

To configure the Event log proceed as follows:

1. Go to the **ATM-Intellect Pro** object setting panel.



2. Click the **Event log ...** button.
3. In the opened dialog box configure the following parameters:



- a. **Auxiliary characters.** Set the checkbox to log auxiliary characters on the transport level.
- b. **Alarms.** Set the checkbox to log alarm events (activation of vibration sensor, temperature sensor, or forceable lock opening).
- c. **System status.** Set the checkbox to log events related to the system status.
- d. **Intellect messages.** Set the checkbox to logs system health messages from Intellect. The information is saved in a folder inside the software installation folder, in the file video.log.
- e. **Client servicing.** Set the checkbox to log the performance of financial transactions on the ATM.
- f. **Archive period (h).** Allows archiving the log of events over the given time period (in hours). Archives are saved in the DATA subfolder, in the following format: namelog_yymmddhhmmss.gz, where
 - i. namelog is the name of the archived event log
 - ii. yy is the year of archive creation
 - iii. mm is the month of archive creation

- iv. dd is the day of archive creation
- v. hh is the hour of archive creation
- vi. mm is the minute of archive creation
- vii. ss is the second of archive creation
- g. **File size (MB)**. Sets the size of the event log file (in megabytes) after which the file will be archived. This setting overrides the value in the **Archive period** field.
- h. **Keep archives for (months)**. Sets the term of storage for the archived event log, in months (from 1 to 24). After this term expires, the archives are deleted.

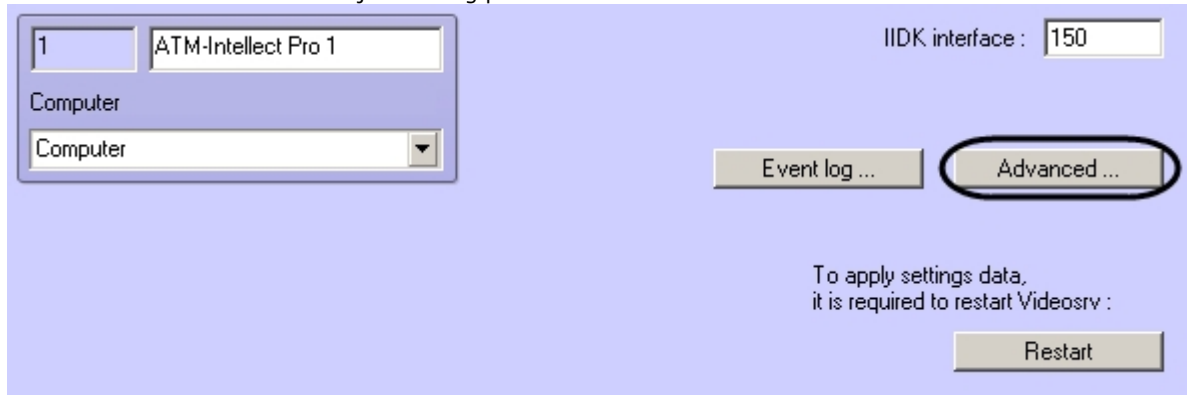
The main event log is stored in the folder in which the software was installed, in the file vsrvYYMMDD.log, where YY is the year, MM is the month and DD is the day.

Setting up event log is completed.

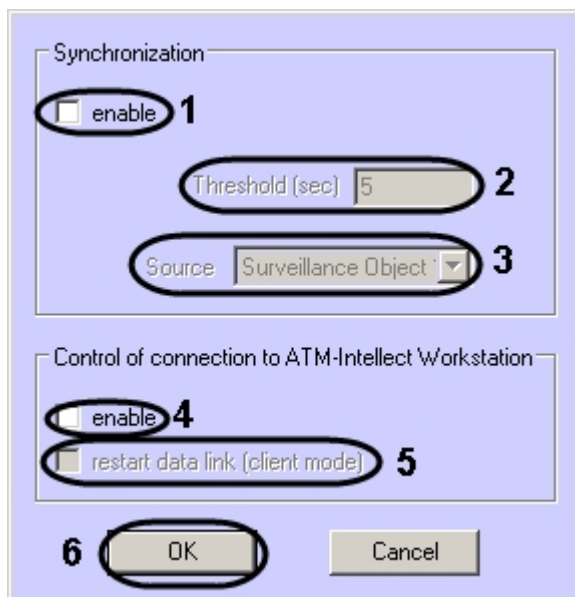
Configuring time synchronization and control of connection

To configure time synchronization and control of connection with *ATM-Intellect Workstation* proceed as follows:

1. Go to the **ATM-Intellect Pro** object setting panel.



2. To view a dialog box with more configuration options, click the **Advanced ...** button.



3. Configure synchronization in the following way:
 - a. Set the **enable** checkbox (1) if it's necessary for *ATM Intellect Pro* to synchronize its local time with the time on the specified source (ATM, self-service terminal, or any other protected object).
 - b. Fill in the **Threshold (sec)** field if in case the local time in *ATM Intellect Pro* varies from the time on the source by more than the amount indicated, the time to be synchronized (2). ATMs made by Smart Card Service can send commands to *ATM Intellect Pro* to force synchronization (in which case the threshold value is ignored).
 - c. If *ATM Intellect Pro* is used for multiple objects, select in the **Source** drop-down list which **Surveillance Object** will serve as the synchronization source (3).
4. Configure control of connection to *ATM-Intellect Workstation*:
 - a. Set the **enable** checkbox if it is necessary for *ATM Intellect Pro* to ping *ATM Intellect Workstation* i.e. to include a command inside a technical status packet to confirm receipt of the packet (4). If *ATM Intellect Workstation* does not respond to four test messages in a row, the software decides that there are problems in the data link between *ATM Intellect Pro* and *ATM Intellect Workstation*. The actions that the software takes based on this decision depend on the **Restart data link (client mode)** setting.
 - b. Set the **Restart data link (client mode)** checkbox (5) if when *ATM Intellect Workstation* does not respond to four technical status packets in a row, the problematic data link are to be restarted, unless this task is reassigned to other software (such as the module IP2X25.exe).
5. Press **OK** (6).
6. Click **Restart** button on the **ATM Intellect Pro** settings panel to apply the settings.

Configuring time synchronization and control of connection is completed.

Configuration of the Surveillance Object object

Setting Surveillance Object ID

To set the Surveillance Object ID, do the following:

1. Go to the **Surveillance Object** object setting panel.

Surveillance Object 1

ID: 386

Transmitting ...

TCP port (UPS-SCS): 8888

ATM-Intellect Pro 1

Number: Keep archive for (days)

Cameras ...

Total cameras: 0

Sensor ID: Sensor type

Sensors: 0

temperature sensor set

Titles

Display time (sec): 10

☒ Date and time
☒ ATM number
☒ Card status
☒ Amount
☒ Card number
☒ Mask

2. In the **ID** field enter the unique ID number of the object on which *ATM Intellect Pro* is installed. May contain 3 to 9 characters.
3. Click **Apply** to save changes.

Setting Surveillance Object ID is completed.

Setting the port used to listen for messages from the UPS and Smart Card Service ATMs

To set the port used to listen for messages from the UPS and "Smart Card Service" ATMs do the following:

1. Go to the **Surveillance Object** object setting panel.

Surveillance Object 1

ID: 386

Transmitting ...

TCP port (UPS-SCS): 8888

ATM-Intellect Pro 1

Number: Keep archive for (days)

Cameras ...

Total cameras: 0

Sensor ID: Sensor type

Sensors: 0

temperature sensor set

Titles

Display time (sec): 10

☒ Date and time
☒ ATM number
☒ Card status
☒ Amount
☒ Card number
☒ Mask

2. In the **TCP port (UPS-SCS)** field enter the port used to listen for messages from the UPS and ATMs made by Smart Card Service.
3. Click **Apply** to save changes.

Setting the port used to listen for messages from the UPS and "Smart Card Service" ATM is completed.

Setting up a connection between ATM Intellect Pro and ATM Intellect Workstation



Note.

If the network where *ATM-Intellect* components operate uses a firewall protection and access control system, then VPipe complex should be used to pass-through packages exchange between *ATM-Intellect Pro* and *ATM-Intellect Workstation* - see the [Features of operation within the firewall protection and access control systems](#) section.

Setting up a connection between *ATM Intellect Pro* and *ATM Intellect Workstation* is performed in the following way:

1. Go to the **Surveillance Object** object setting panel.

2. Click the **Transmitting ...** button. A dialog box for selecting the interface method between *ATM Intellect Pro* and *ATM Intellect Workstation* opens.

3. In the **Connection to ATM Intellect Workstation** drop-down list select one of the two available methods for connecting *ATM Intellect Pro* to *ATM Intellect Workstation* will be used: **Server mode** or **Client mode** (1).
 - a. In the **Connection type** drop-down list select the type of transport interface. Can be either **TCP/IP** or **RS232** (2).
 - b. If **RS232** is chosen for the **Connection type**, the **COM port number**, **COM port speed** and **COM port format** must be configured (3).
 - c. If **TCP/IP** is chosen for the **Connection type**, in the **TCP port** enter the number of port for TCP/IP connections (4).
If **Client mode** has been chosen for the connection to *ATM Intellect Workstation* and **TCP/IP** has been chosen for the **Connection type**, in the dialog box, indicate the **IP address** and **TCP port** of *ATM Intellect Workstation*.
4. The sending of frames and clips on *ATM-Intellect Workstation* is performed by packets. The **I/O buffer (bytes)** field sets the packet size (5). For maximum transmission speed, use 4096. It is recommended to use value 800 for bad connection links, for example when the GSM-modem is in use.
5. In the **Ping frequency (sec)** field enter the frequency at which *ATM Intellect Pro* sends ping test messages about its technical status to *ATM Intellect Workstation* (**Client mode**) - (6). Minimal possible value is 10 sec. The value in the **Ping frequency (sec.)** field does not affect short-term alarms. Messages about short-term alarms are transmitted to *ATM-Intellect Workstation* immediately after corresponding sensors triggering. Some long-term alarms can also be an exception: for more info, see the document [ATM-Intellect. Operator's Guide, section Appendix 1. Data update periods summary](#)
6. Click **OK** (7).

Setting up a connection between *ATM Intellect Pro* and *ATM Intellect Workstation* is completed.

Configuring video cameras list

To configure list of used video cameras do the following:

1. Go to the **Surveillance Object** object setting panel.

1 Surveillance Object 1 ID 386 Transmitting ...

TCP port (UPS-SCS) 8888

ATM-Intellect Pro 1

Number	Keep archive for (days)
--------	-------------------------

Cameras ...

Titles

Display time (sec): 10

☒ Date and time ☒ Amount

☒ ATM number ☒ Card number

☒ Card status ☒ Mask

Total cameras: 0

Sensor ID	Sensor type
-----------	-------------

Sensors

Add ...

Edit ...

Delete

Sensors: 0 ☐ temperature sensor set

2. Click the **Cameras...** button (1). The **Add/Edit cameras** dialog box opens.

3. Move cameras from the list on the left to the list on the right with  and  buttons (1).
4. Select cameras in the list on the right.
5. Specify the length of time for which you want to keep video archives, in days (2).
6. If titles displaying is required, set the ATM events captions checkbox (3).
7. Click the **Set for selected cameras listed on the right** button (4).
8. Repeat steps 4-7 for all cameras in the list on the right.
9. Click **Apply changes and close** button (5).

Note.
Video camera and Captioner ID numbers must be whole integers.

Configuring cameras list is completed.

Setting up sensors

A system can include four fixed sensor types (vibration sensor, lock sensor, temperature sensor, extra sensor) as well as 12 extension sensors. There is another device as well, "Temperature sensor set".

**Note.**

Before configuring the sensors list, create and configure all required **Sensor** objects in the Intellect software. Connecting, creating and configuring of sensors are described in the document [INTELLECT software package. Installing and configuring security system components guide](#).

**Attention!**

The ID numbers for these sensors must be whole integers.

**Attention!**

If video data (i.e. clips or snapshots) are attached to the alarms, it is necessary to create a script for stopping recording on camera (see [Example of script to suspend recording on camera](#))

To configure the list of used sensors, do the following:

1. Go to the **Surveillance Object** object setting panel.

2. Click **Add...** (1). A dialog box for sensor adding opens.

1 Type: Vibration sensor

2 Name: VIBROSENSOR

3 ID: Sensor 1 [1]

4 Attach to camera: Camera 1 [1]

5 ☐ transmit snapshots

6 ☒ transmit video

7 Post-alarm time (sec): 20

8 Pre-alarm time (sec): 0

9 Length (sec): 1

10 Rate (Kb/s): Max

11 ☒ captioning

12 Show for (sec): 5

13 OK Cancel

Sensors

Add ...

Edit ...

Delete

☐ temperature sensor set

3. In the **Type** drop-down list select a type of sensor from the 16 types described previously (1).
 - a. In the **Name** field enter the text which will be sent to *ATM Intellect Workstation* together with an alarm message (2). This text will be overlaid on the video camera image during the subtitling process.
 - b. In the **ID** drop-down list select the **Sensor** object that has been previously created in *Intellect* (3).
 - c. In the **Attach to camera** drop-down list select a **Camera** object that has been previously created in *Intellect* (4).
 - d. Set the **Transmit snapshots** checkbox to send video frames to *ATM Intellect Workstation* when the sensor is activated, select this check box (5). In the **Attach to camera** field, indicate the video camera from which you want video frames to be sent (4).

Note.
Configuration parameters for video and snapshots transmitting are different.

4. Set the **Transmit video** checkbox to send video to *ATM Intellect Workstation* when the sensor is activated, select this check box (6). In the **Attach to camera** field, indicate the video camera from which you want video to be sent (4).
5. In the **Post-alarm time (sec)** field enter amount of delay between when a sensor is activated and when the video archive is triggered, in seconds (7). The default value is 20 seconds.
6. In the **Pre-alarm time (sec)** enter the duration of time for which you want to include "pre-recorded" imagery from before the sensor was activated, in seconds (8). This option allows viewing frames or video captured a short time before the alarm event, in addition to those captured at the start of the event itself.
7. In the **Number of frames** drop-down list select the number of video fragment frames to send when a sensor is activated (for **Transmit snapshots** mode) - (1).

8. In the **Interval (sec)** field enter the interval, in seconds, between video frames if more than one frame is being transmitted (2). This means that when an alarm occurs, *ATM Intellect Workstation* can receive a whole series of frames that are dispersed over time, which increases the likelihood of getting a high-quality still-image frame (for **Transmit snapshots** mode).



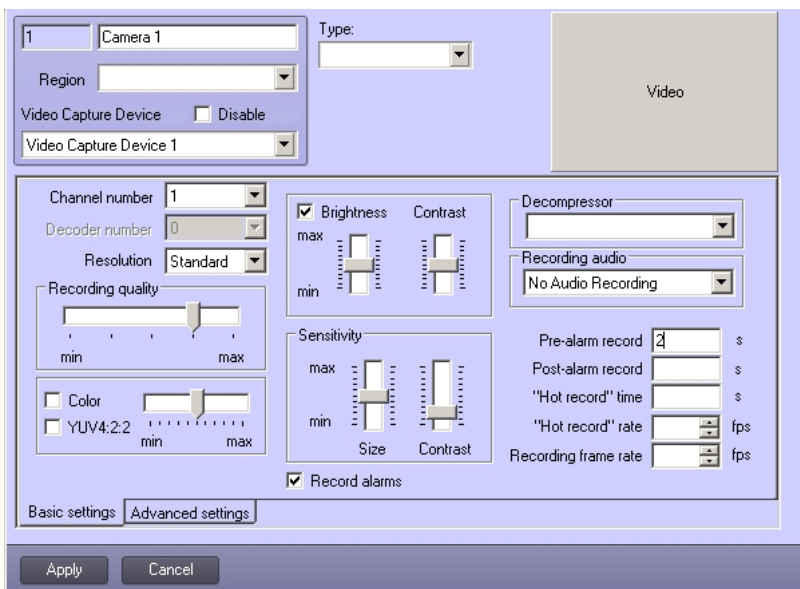
Attention!

For snapshots transmitting more, as well as for video clips transmitting, it is necessary to create a script for stopping video recording on camera (see [Example of script to suspend recording on camera](#))



Attention!

When configuring the **Pre-alarm time**, **Number of frames**, and **Interval** settings, you are advised to keep in mind the configuration of the video camera from which the imagery will be sent (specifically, the **Pre-alarm record** setting).



9. In the **Length (sec)** field enter the length of the transmitted video fragment (for **Transmit video** mode).



Attention!

This setting cannot be accessed in this version of the program (9). The length will be determined by the size of the video footage file in the video archive. To limit the length of the video fragment that is sent, pause camera recording by using a script (a sample script is given in [Example of script to suspend recording on camera](#)).

10. In the **Rate (Kb/s)** field enter the speed of transmission of the video fragment (for **Transmit video** mode) - (10).
11. Set the **Captioning** check box if captions are to be superimposed on the video image when a sensor is activated (11). In the **Attach to camera** field, indicate the video camera on whose video you want to overlay captions (4).
12. In the **Show for (sec)** field specify the duration of display of captions on the video image, in seconds (12).
13. Click **OK** (13).
14. Set the **Temperature sensor set** checkbox if it is necessary to monitor temperatures within a particular allowable range, enable this option (3). For temperature control, a set of DS18S20-type temperature sensors is used. Temperature sensors are connected through a twisted-pair cable using the Dallas 1-Wire communications network to a MicroLAN network adapter; the adapter is connected to the COM port of the computer that has *ATM Intellect Pro* installed. A MicroLAN network adapter can be connected to the USB port of the computer on which *ATM Intellect Pro* is installed, by using an additional RS232-to-USB adapter.
15. To save settings click **Apply** (4).

Configuring the list of used sensors is completed.

Configuring titles

Setting information contained in titles

To set information which should be displayed in titles, as well as time of titles displaying do the following:

1. Go to the **Surveillance Object** object setting panel .

2. In the **Display time (sec)** field set the length of time, in seconds, for which captions are displayed on the video image after the corresponding event occurs at the protected object (ATM) - (1).
3. Set the checkboxes in front of information which should displayed in captions (2). The **Mask** checkbox is to be set when the card number is to be displayed but all the digits in it except 4 in the beginning and 4 in the end are to be hidden.
4. Click **Apply** to save settings.

Setting information contained in titles is completed.

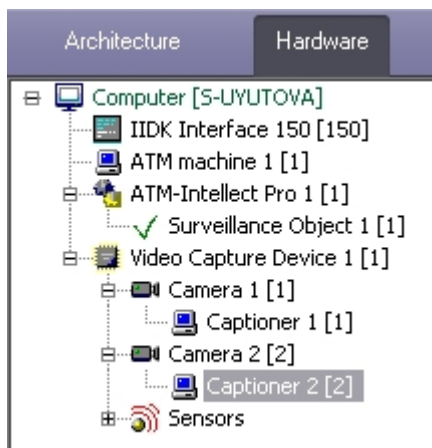
Setting up the Captioner object

To configure captions, you must create a **Captioner** object for each camera on which you want to overlay captions.



Attention!

If multiple **Captioner** have been created for a single camera, *ATM Intellect Pro* will use the **Captioner** that has the lowest ID number.



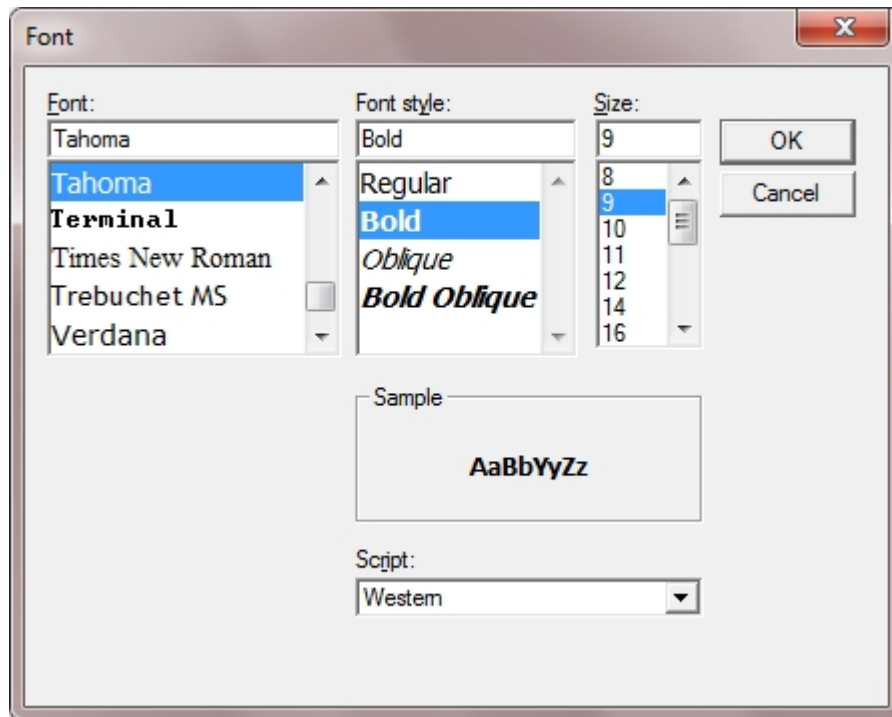
To configure the font and location of captions on the screen do the following:

1. In the settings tree, left-click the corresponding **Captioner** object. On the right side of the screen, a configuration pane appears for the **Captioner** object.

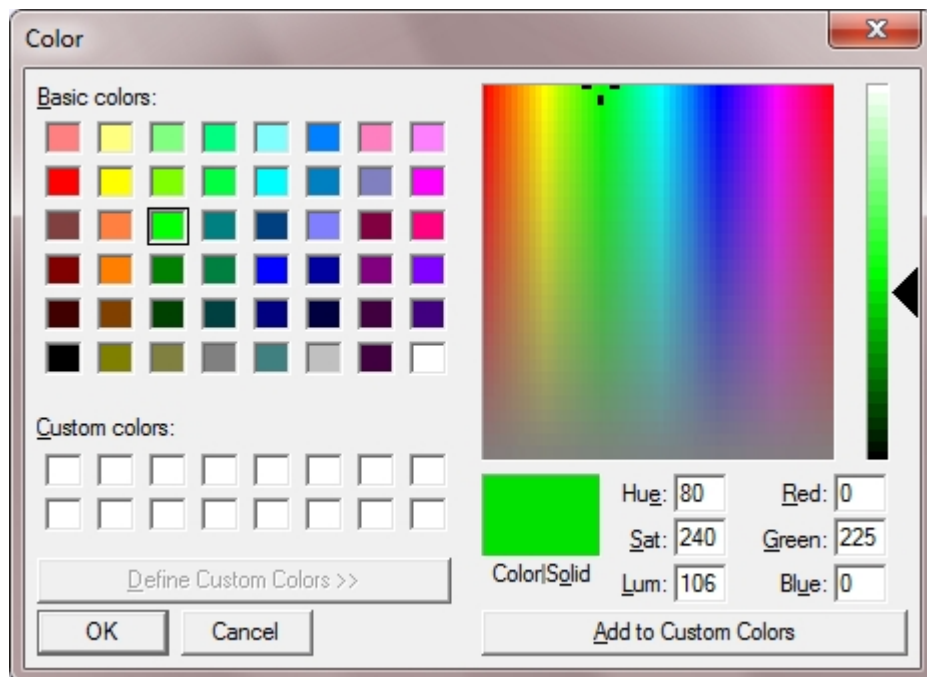
1
2

Word	Color	Full string	Match case

2. To configure the font face and font size, click the button to the right of the **Font** line (1) to open the corresponding dialog box.



3. To configure the color of captions, double-click the area to the right of the **Color** line (2). The color selection dialog box opens.



Integration with UPS units

If your computer is equipped with a UPS unit from the Smart-UPS series made by APC, the UPS can send messages to ATM Intellect Workstation.

Configuring of operation with UPS unit is performed in the following order:

1. Install StateUPS utility.
2. Configure PowerChute plus utility.

StateUPS utility setup

StateUPS utility (exe-file and ini-file) is installed with *ATM-Intellect Pro* and placed to the <Intellect software installation>/Vhost/UPS/.

Note.
Files from the <Intellect software installation>/Vhost/UPS/Ext directory will look for the ini settings file in the same directory as the StateUPS utility.

Configure the file StateUPS.ini, which is located in this directory:

1. *Address* – IP address of the computer on which ATM Intellect Pro is installed. The default value is 127.0.0.1. If you are installing StateUPS on the same computer on which *ATM Intellect Pro* is installed, you do not need to change this setting.
2. *Port* – the TCP port on which StateUPS sends messages from the UPS. The value of this setting must match the corresponding setting in ATM Intellect Pro, **TCP port (UPS-SCS)** (see [Setting the port used to listen for messages from the UPS and Smart Card Service ATMs](#)).

If the StateUPS utility is to be used on another computer, do the following:

1. Create "HKLM\SOFTWARE\BitSoft\VHOST\VHostService" section in the registry on this computer.
2. In this section, create the "FolderLog" parameter. In the "FolderLog" parameter specify the path where the UPS folder will be created containing ini-file. For example, if the folder is C:\EVUPS, then "FolderLog" = "C:\EVUPS\"
3. In the specified folder, for example, C:\EVUPS, create the UPS sub-folder and copy the StateUPS.ini into it.

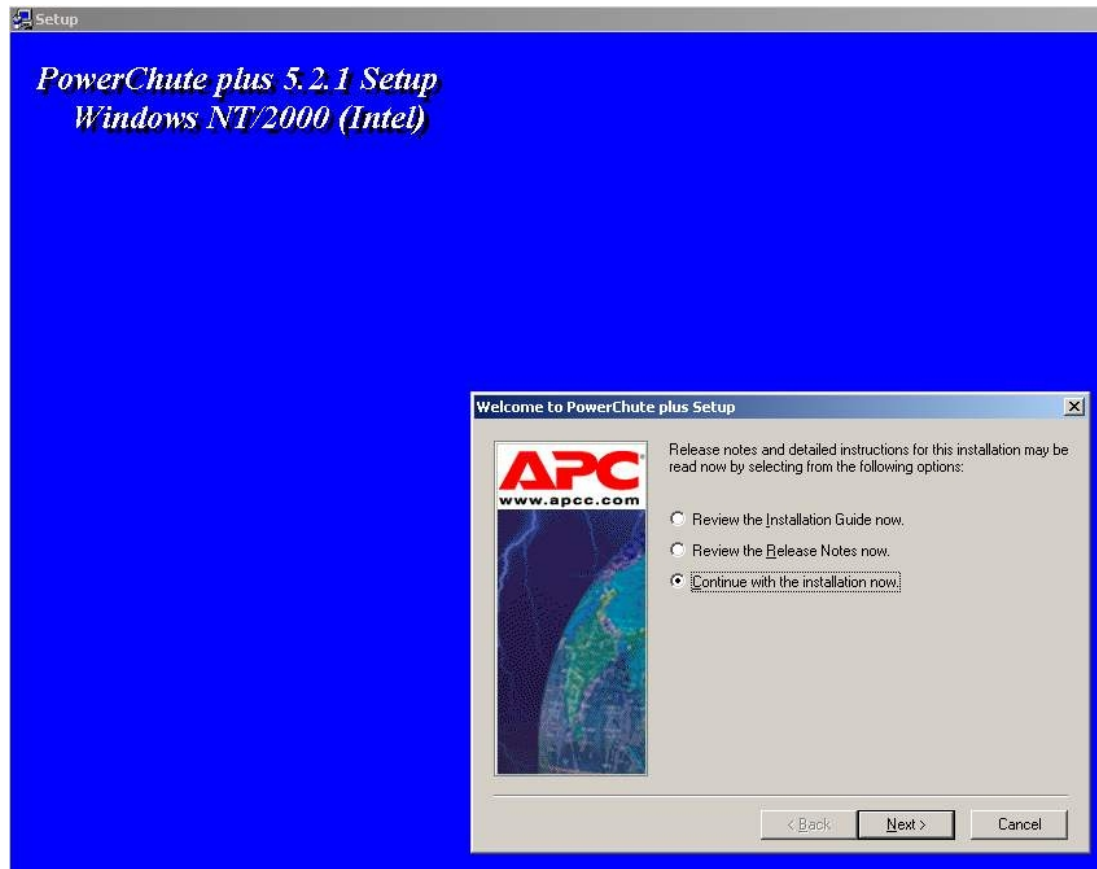
Installation of software supplied by the UPS vendor

After the StateUPS utility is set up, install the software supplied by the UPS vendor. Before beginning installation, make sure that the interface cable is connected to the UPS:

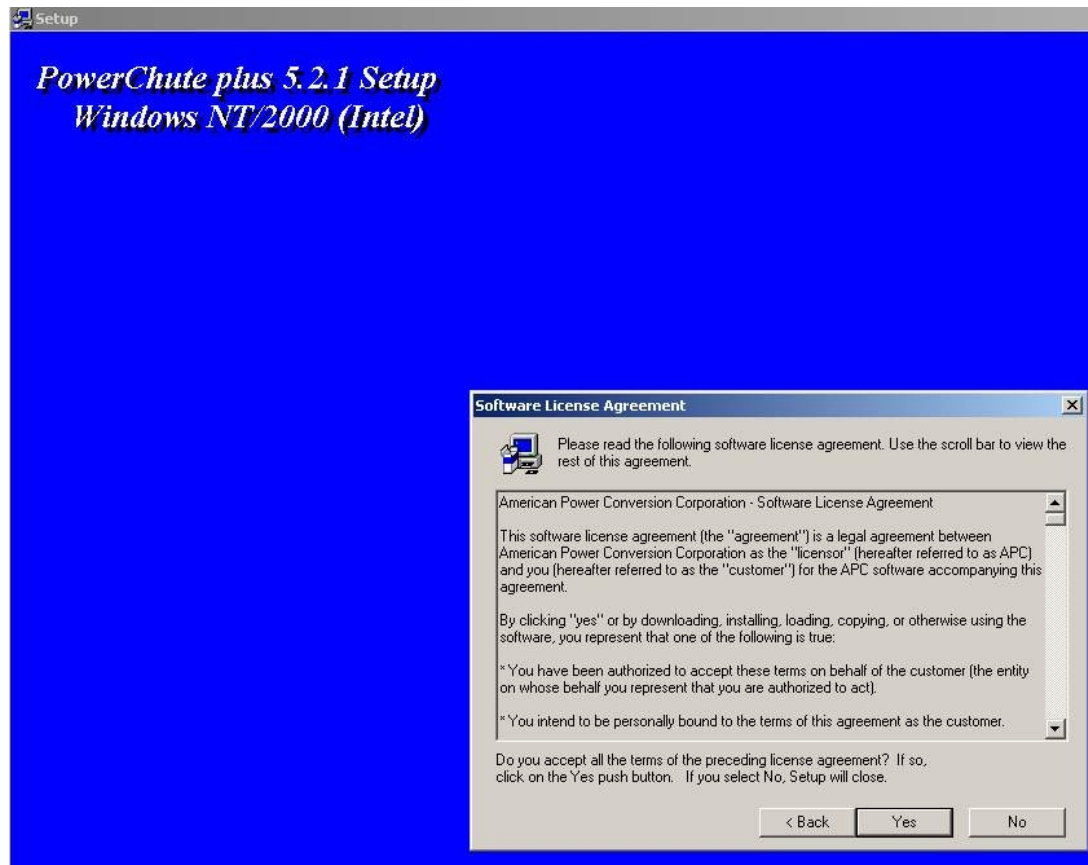
1. To start the installation process, start the file pc521.exe. Installation starts.



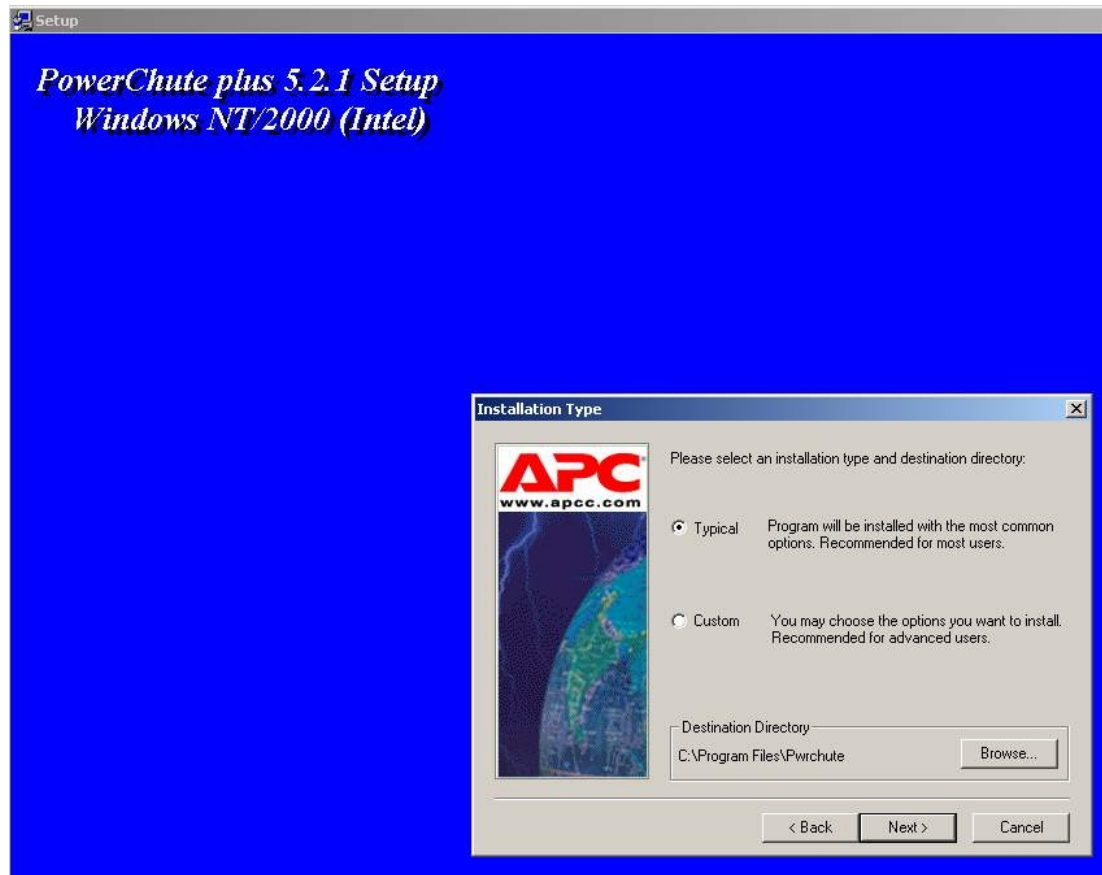
2. On the following wizard page, select the option **Continue with the installation now** and click the **Next** button.



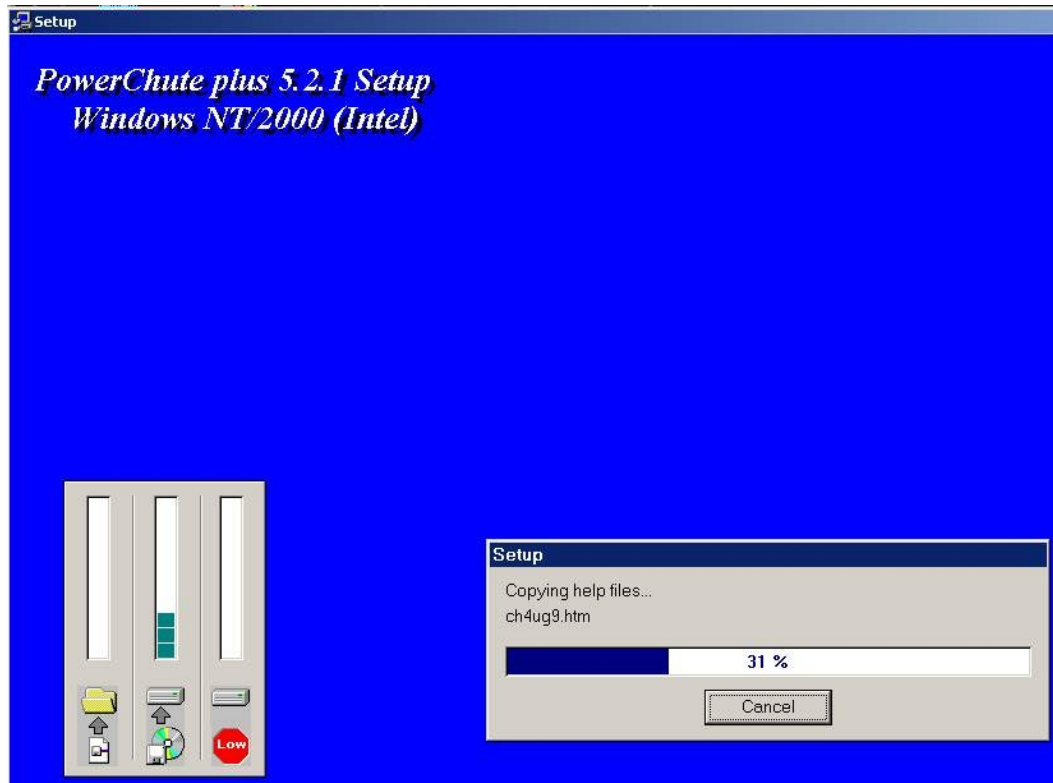
3. Accept the end-user license agreement.



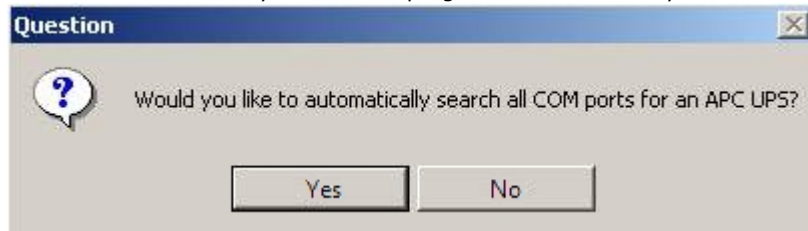
4. On the following page of the wizard select the **Typical** installation type and indicate the path at which you want to install the software.



5. The necessary files will be copied.



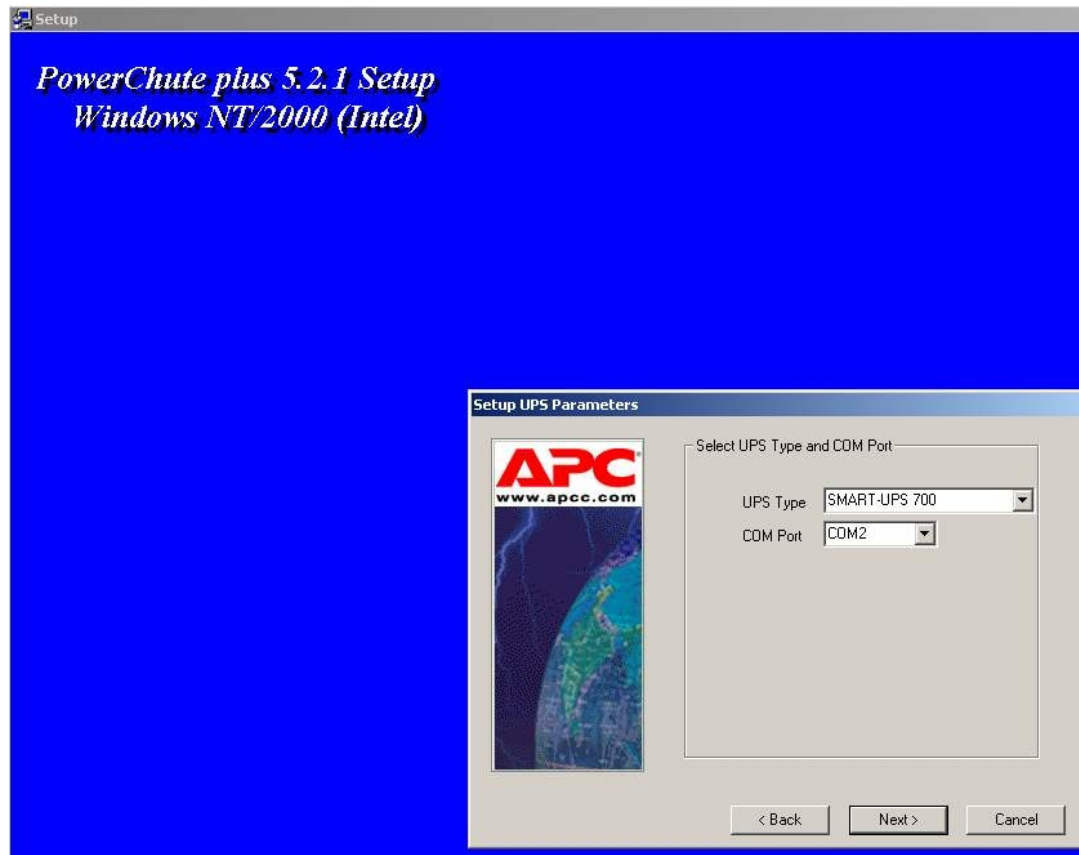
6. You are asked whether you want the program to automatically detect the COM port on which the UPS is located. Click the **Yes** button.



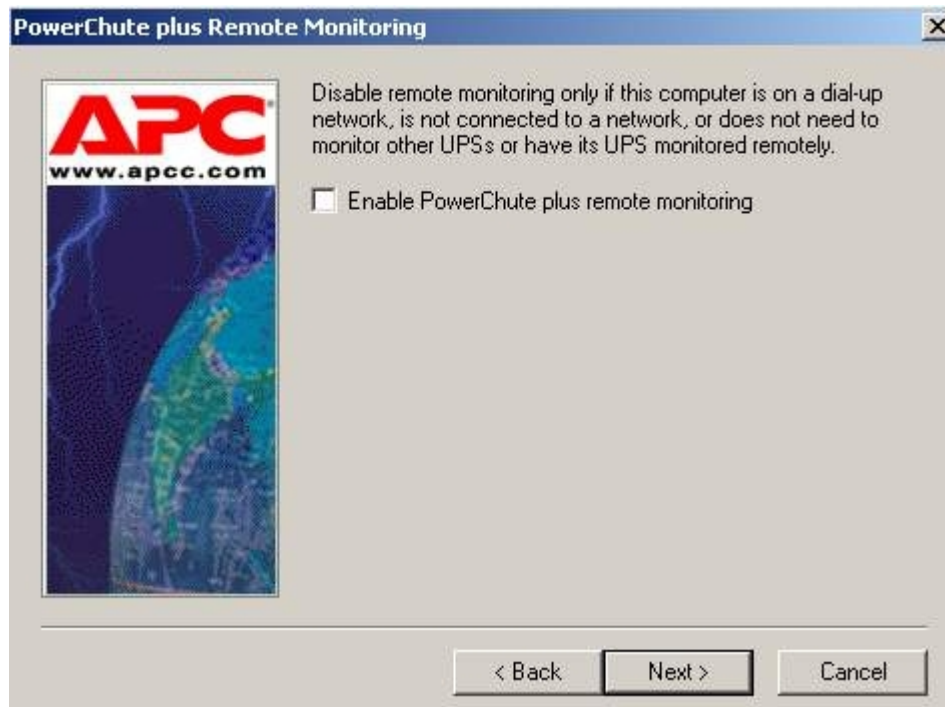
7. Search begins.



8. After the search ends, the program shows the type of UPS that it found and the corresponding COM port. Click the **Next** button.



9. Then clear the **Enable PowerChute plus remote monitoring** check box and click the **Next** button.



10. The two following wizard pages complete the installation process.



The StateUPS utility installation completed.

Configuring PowerChute plus utility



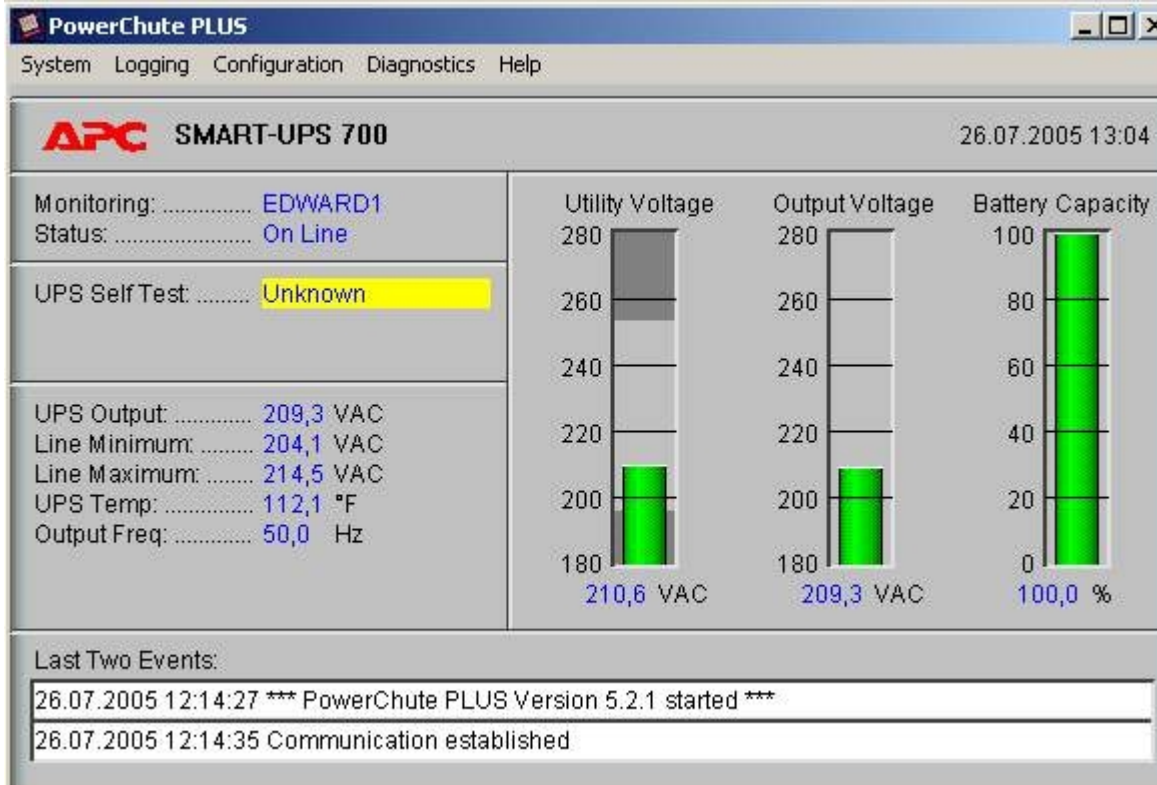
Note.

The PowerChute utility configuring process is given in this document as an example. Alternative software can have different settings.

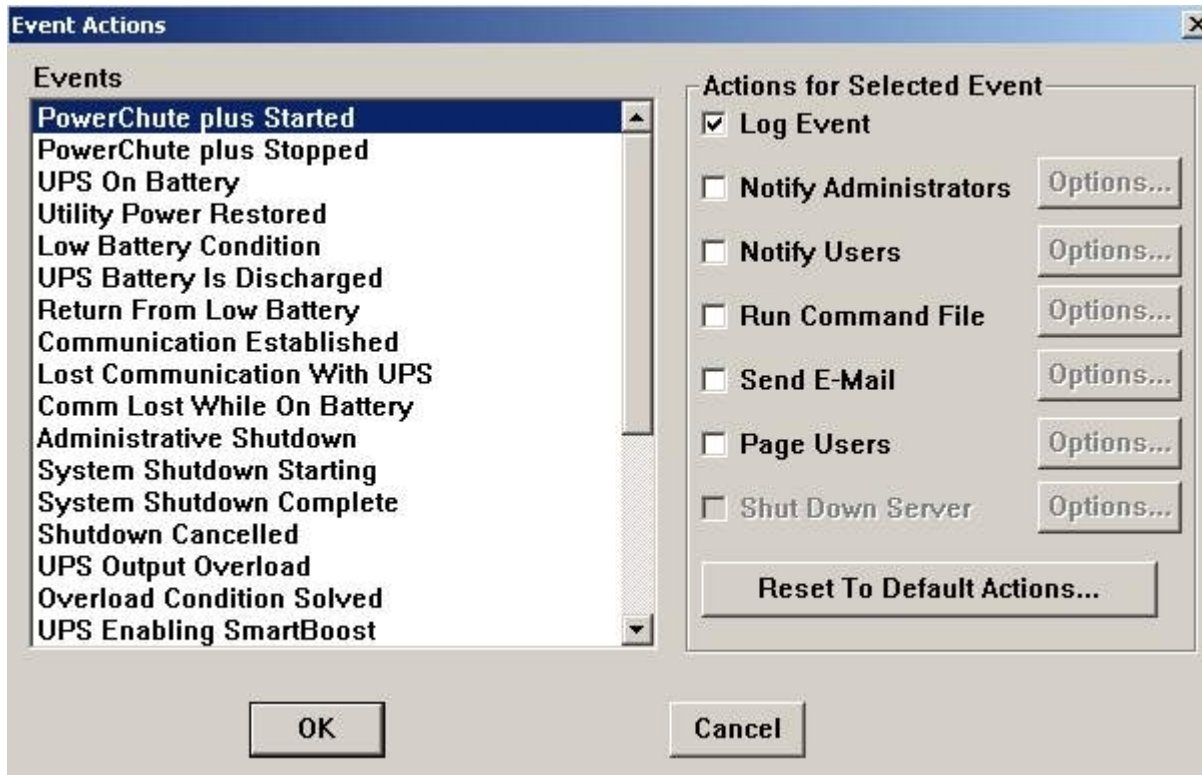
Alternative software must allow binding certain reactions with UPS events.

To configure PowerChute plus do the following:

1. Start configuration of PowerChute plus, by selecting **Start>Programs>PowerChute plus>PowerChute plus**.



2. Select the menu item **Configuration>Event Actions....**. In the dialog box that appears, in which events are listed on the left, you can set different reactions for event types, on the right side of the window.
3. You are advised to not disable the **Notify Users** option for all events; disable it only if you do not want to send messages on the entire domain on which the computer is located.



A more complete list of events is given in the table.

ID Code	Event Name	Description
1000	PowerChute Started	PowerChute service started
1001	PowerChute Stopped	PowerChute service stopped
1002	Communication Established	Communication established
1003	Utility Power Restored	Utility power restored
1004	UPS Self-Test Passed	Self-test passed
1005	Administrative Shutdown	Administrative shutdown
1006	Shutdown Cancelled	Shutdown cancelled
1007	Returned From Low Battery	Battery is out of power

1009	UPS Battery Replaced	Battery replaced
1013	Overload Condition Solved	Overload condition is within normal limits
1014	Runtime Calibration Started	Runtime Calibration Started
1015	Runtime Calibration Finished	Runtime Calibration Finished
1016	System Shutdown Starting	System is shutting down
1102	UPS Internal Temperature In Bounds	Internal temperature is in normal range
2000	UPS On Battery	Electricity is off
2001	System Shutdown Complete	System has shut down
2002	UPS Enabling SmartBoost	Reduced voltage
2003	Low Battery Condition	Battery is low
2004	Runtime Calibration Aborted	Runtime calibration aborted
2007	UPS Enabling SmartTrim	Increased voltage
3000	Lost Communication With UPS	Communication lost
3001	UPS Output Overload	Overload
3002	UPS Self-Test Failed	Self-test failed
3003	UPS Battery Is Discharged	Battery discharged
3004	Comm Lost While On Battery	Comm Lost While On Battery
3016	Battery Needs Replacing	Battery must be replaced
3107	Maximum Internal Temperature Exceeded	High internal temperature

You can configure PowerChute plus to send any of the events to ATM Intellect Workstation when they occur.

It is recommended that you allow events indicated in green to be sent to ATM Intellect Workstation.

The <Intellect installation>\Vhost\UPS\Ext\ folder also includes three executable files that have been created for specific events:

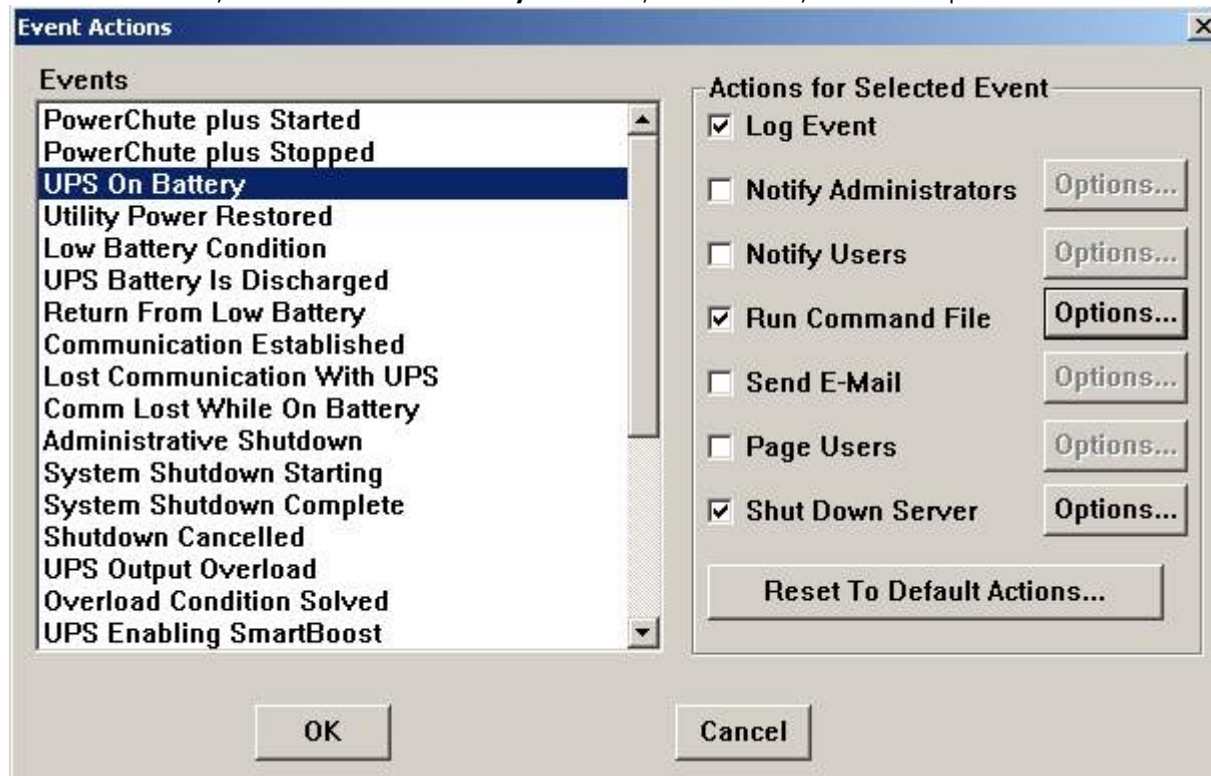
- PowerOff.exe – electricity cut off
- PowerOn.exe – electricity restored
- BatDisch.exe – battery discharged

This basic set can be useful for Back-UPS product series that do not support invoking subprograms from the command line.

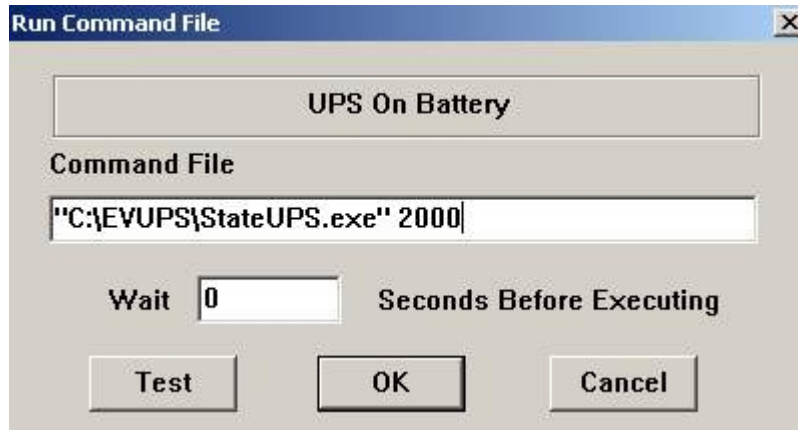
Example of configuring events notifying

Imagine that we are interested in situations when electricity has gone out and the UPS has switched to battery mode (ID Code = 2000), and electricity returned a while later (ID Code = 1003).

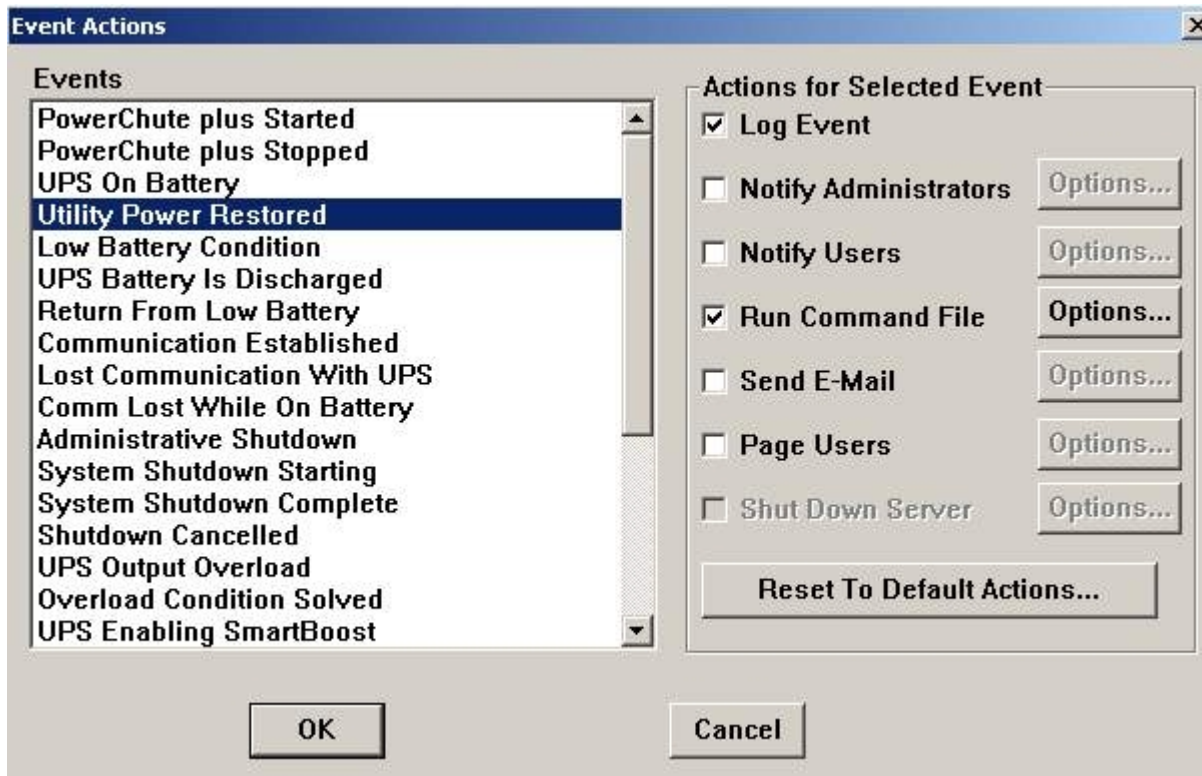
1. In the list of events, select the **UPS On Battery** event and, for this event, enable the option **Run Command File**.

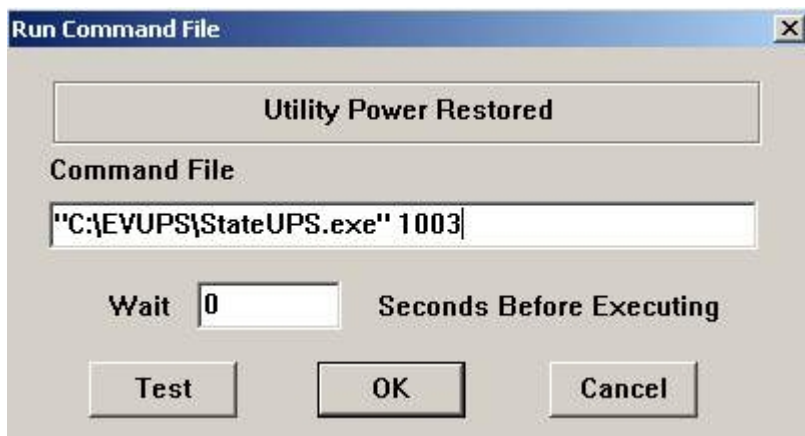


2. To the right of the **Run Command File** line, click the **Options...** button. In the dialog box that appears, indicate the full path to the StateUPS utility, which is what we want to start whenever this event occurs. Enclose the path in double quotes. Type a space and then indicate the ID code for the UPS On Battery event (which is equal to 2000) (see [Configuring PowerChute plus utility](#)).



3. The equivalent actions for the **Utility Power Restored** event are shown in figures below.





Keep in mind that after utility power is restored, the UPS does not always generate the **Utility Power Restored** event; sometimes, it generates the **UPS Enabling SmartBoost** or **UPS Enabling SmartTrim** events instead. So in order to not "miss" when utility power is restored, you are also advised to configure notifications for the **UPS Enabling SmartBoost** or **UPS Enabling SmartTrim** events.

Every time the StateUPS utility is launched, a log file is created in the system folder of the operating system (System32), with a name resembling:

upslog_<state>_<date>_<time>.log

Integration with the Gold crown

On the page:

- [Setting up the vmon_itv.dll library](#)
- [Configuring interaction with vmon_itv.dll at the ATM](#)

Setting up the vmon_itv.dll library

Use the «vmon_itv.dll» integration repository to get events from the ATM if it operates with the "Gold system" payment service provider. This repository is shipped separately.

Presence of the «MS Visual C++ 2005 Redistributable» package in the system is essential to work with the «vmon_itv.dll» repository.

After the «vmon_itv.dll» repository is registered in the ATM software settings (in the videoMonEvents.in file), it is ought to configure it. Run the «vmon_itv.reg» file and agree with saving changes in the registry.

With the help of the «regedit» utility configure parameters of the «vmon_itv.dll» repository in the «HKEY_LOCAL_MACHINE\SOFTWARE\ITV\AtmIntegration» registry section.

Name	Type	Data
 (Default)	REG_SZ	(value not set)
 IpAddress	REG_SZ	127.0.0.1
 LogEnable	REG_SZ	0
 RecTOut	REG_SZ	120
 StartRecEvents	REG_SZ	0
 StopRecEvents	REG_SZ	0
 TcpPort	REG_SZ	8888

- *IpAddress*, *TcpPort* – parameters of connection to the *ATM-Intellect Pro*. If the *ATM-Intellect Pro* is installed on the ATM, don't change these parameters.
- *LogEnable* – enabling the «vmon_evt.log» log transaction. On default, the log transaction is disabled.

The other parameters are designed for configuring the mode of record by events:

- *StartRecEvents* – list of events on which the record is started (separated by commas). The value on default is 0.
- *StopRecEvents* – list of events on which the record is finished (separated by commas). The value on default is 0.
- *RecTOut* – total record time in the mode of record by events. The record will be continued for the time which is specified in this parameter if the stop event is not received after the start event. the value on default is 120.

The list of events is presented in the `videoMonEvents.ini` file.

For example, if *StartRecEvents* = 50 and *StopRecEvents* = 54, the record by cameras will start by the “Card inserted” event and will finish by the “Working with client is finished” event.

If only one of *StartRecEvents* or *StopRecEvents* parameters is equal 0, the record is performing in the normal mode.

Configuring interaction with `vmon_itv.dll` at the ATM

Make sure that the following conditions are fulfilled at the ATM side:

1. `vmon_itv.dll` is copied to the bin directory.
2. In the conf directory in the `videoMonEvents.ini` file, the name of dll performing events transferring to the video surveillance system is specified: `dll=vmon_itv.dll`.
3. In the `app.xml` there is parameter `videoMon="vmon_proxy.dll"`.
4. In the ATM license file there is a “video surveillance” item.

Features of operation within the firewall protection and access control systems

When a firewall protection and access control system is in use, e.g. the Internet FPSU system (<http://www.amicon.ru/>), a VPipe complex is used to organize a through channel between *ATM-Intellect Pro* and *ATM-Intellect Workstation* via ATM network resources.

The complex consist of two components:

1. VPipe server. Installation file is in the *ATM-Intellect* installation kit at *SoftForATM* folder and is called `VPipeSrv.exe`
2. VPipe client. Installation file is in the *ATM-Intellect* installation kit at *SoftForATM* folder and is called `VPipeClient.exe`

Installation files for VPipe complex are in the archive with intergation modules.

VPipe client is to be installed on the ATM. VPipe client is designed to create a communication channel between *ATM-Intellect Pro* and *ATM-Intellect Workstation*.

VPipe client operates as follows:

1. At start, VPipe client automatically establishes a connection with the specified port of VPipe server and subsequently supports the connection in an operable mode.
2. Establishes a connection with *ATM-Intellect Workstation*. Subsequently supports the channel in an operable mode.
3. VPipe client transmits packages received from *ATM-Intellect Pro* (through VPipe Server) to *ATM-Intellect Workstation*, and from *ATM-Intellect Workstation* to *ATM-Intellect Pro* without changes.

VPipe Server is to be installed at the *ATM-Intellect Pro*. VPipe server is designed to receive packages from *ATM-Intellect Pro* and transmit them to *ATM-Intellect Workstation*, as well as to receive packages from *ATM-Intellect Workstation* and transmit them to *ATM-Intellect Pro*.

VPipe server operates as follows:

1. At start, VPipe server opens a socket for *ATM-Intellect Pro* connection
2. VPipe server opens a socket for VPipe client connection (*ATM-Intellect Workstation*).
3. VPipe server transmits, without distortion, packages received from *ATM-Intellect Pro* into the VPipe client channel (*ATM-Intellect Workstation*) and back.

A connection is always initiated by VPipe client. At start, VPipe client establishes a connection with *ATM-Intellect Workstation* as well as with VPipe server (*ATM-Intellect Pro*). Connection between VPipe server and VPipe client is only possible when *ATM-Intellect Pro*, at its side, have established a connection to VPipe server.

VPipe complex is configured using Windows registry.

VPipe client parameters description (registry section HKEY_LOCAL_MACHINE\SOFTWARE\BITSoft\VPipe\VPipeClient) is given in the table.

Name	Type	Default value	Description
PortPDV	DWORD	7777	<i>ATM-Intellect Workstation</i> port to which VPipe client connects
PortLVOS	DWORD	8555	VPipe server port to which VPipe client connects
AddressPDV	String		<i>ATM-Intellect Workstation</i> IP-address
AddressLVOS	String		IP-address of VPipe server
TmoConnectPDV	DWORD	5	Interval in seconds between attempts to connect to <i>ATM-Intellect Workstation</i>
TmoConnectLVOS	DWORD	5	Interval in seconds between attempts to connect to <i>ATM-Intellect Pro</i>
FolderLog	String	C:\VPipeClient\	Folder for storing module log files
LogPeriod	DWORD	1	Period of storage of the module log files in months
ExtLog	DWORD	0	If it is necessary to store contents of forwarded packages in the log
TerminalID	String		TerminalID of the ATM where VPipe client is installed
TmoPassiveLVOS	DWORD	120	Allowed time of inactivity on the socket with <i>ATM-IntellectPro</i> (sec.)
TmoPassivePDV	DWORD	120	Allowed time of inactivity on the socket with <i>ATM-Intellect Workstation</i> (sec.)
TmoMonitorTimer	DWORD	120	Interval between attempts to send the monitoring package to <i>ATM-Intellect Workstation</i> (sec.)

VPipe server parameters description (registry section HKEY_LOCAL_MACHINE\SOFTWARE\BITSoft\VPipe\VPipeSrv) is given in the table.

Name	Type	Default value	Description
PortATM	DWORD	8555	<i>ATM-Intellect Pro</i> port to which VPipe client connects
PortLVOS	DWORD	7777	VPipe server port to which <i>ATM-Intellect Pro</i> connects

FolderLog	String	C:\VPipeSrv\	Folder for storing module log files
LogPeriod	DWORD	1	Period of storage of the module log files in months
ExtLog	DWORD	0	If it is necessary to store contents of forwarded packages in the log

Transferring events from ATMs to the Intellect core

Events received by ATM-Intellect Pro from ATMs are then transferred into the Intellect core; that allows to create macros and scripts with these events, display alarm windows, etc. Creating scripts on JScript language is described in [Intellect software. Programming Guide \(JScript\)](#). Creating scripts on built-in Intellect programming language is described in *Intellect Software. Programming Guide* (not available in English). Creating macros and their examples are described in [Intellect software. Administrator's Guide](#).

Sources of ATM events for *ATM-Intellect Pro* are:

1. ATM integration through SKS software (TellMe.dll). In this case all possible events are transmitted to the *Intellect* core.
2. ATM integration through XFS (EventATM module– see section [Appendix 3. ATM Event Capture utility](#)). In this case all possible events are transmitted to the *Intellect* core.
3. ATM integration through CFT "Gold Crown" software (vmon_itv.dll). In this case only basic events are transmitted to the *Intellect* core, namely:

50=Card inserted
51=Card shown to client
52=Card's withdrawal by client
53=Card's withdrawal by ATM
54=Work with the client is over
60=Cash delivery
61=Client took out the cash
62=ATM took out the cash
70=Cash deposit is selected
71=Cash returned to client
72=ATM took out the cash
73=Cash reception finished
101=PIN entered

When transferring ATM events to the Intellect core, the following parameters can be included in addition to the event identification:

param0<> - the masked client's card number, if it exists for the event. The parameter can also be equal to "Unknown card".

param1<> - the ID of Surveillance object. If ATM-Intellect Pro has more than one **Surveillance object** child objects this will allow to differ them in scripts.

param2<> - local ATM time of the event. In particular cases Intellect software and ATM software can be installed on different computers.

Full list of Surveillance object events can be obtained with the ddi.exe utility by opening the intellect.atm.ddi located in <Intellect installation>\Languages\en. More information on this utility is given in [Intellect software. Administrator's Guide](#).

Example of a script using ATM events is given in [Example of script with using of ATM events](#).

Working with ATM-Intellect Pro without Windows administration rights

To allow the user not added to the Administrators group in the Windows operating system to work correctly with *ATM-Intellect Pro*, make sure the following conditions are fulfilled:

1. The user must have full access to the *ATM-Intellect Pro* registry section:
HKEY_LOCAL_MACHINE\Software\BitSoft for 32-bit system
(HKEY_LOCAL_MACHINE\Software\Wow6432Node\BitSoft for 64-bit).

2. The user must have full rights for the folder <DISK>:\Backup, where <DISK> is the logical disc where Intellect software is installed.

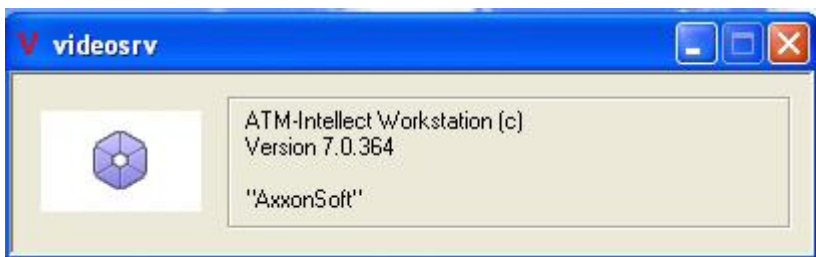
Data loader

The Videosrv communication module

The communication module that obtains information from objects is named Videosrv. A red checkmark representing this module is in the toolbar, in the lower-right corner of the screen.

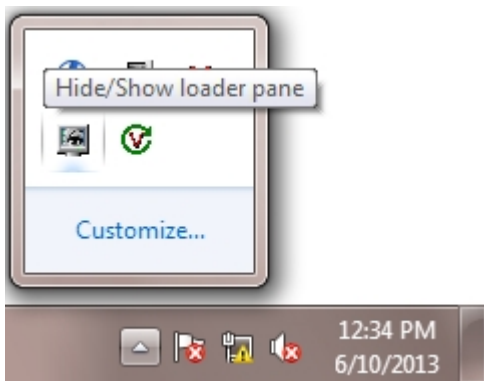


Double-click the checkmark to open the window shown in the figure.

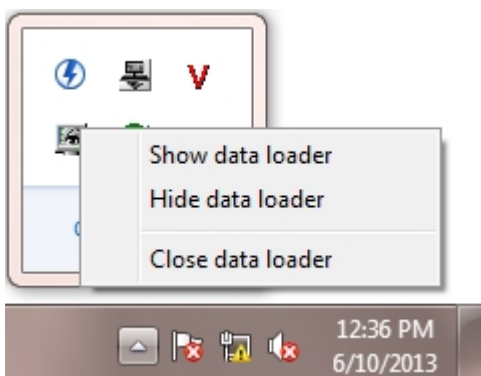


Data loader module

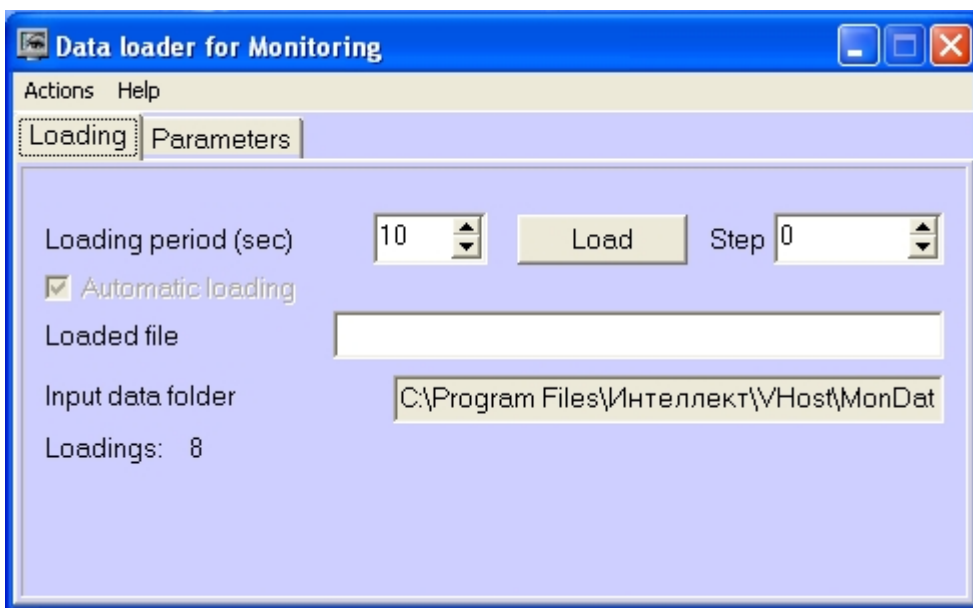
Data loader generates a badge representing this module is in the toolbar, in the lower-right corner of the screen.



Right-click the badge to open a context menu.



When you select **Show data loader** in the menu, the **Data loader for Monitoring** window opens.

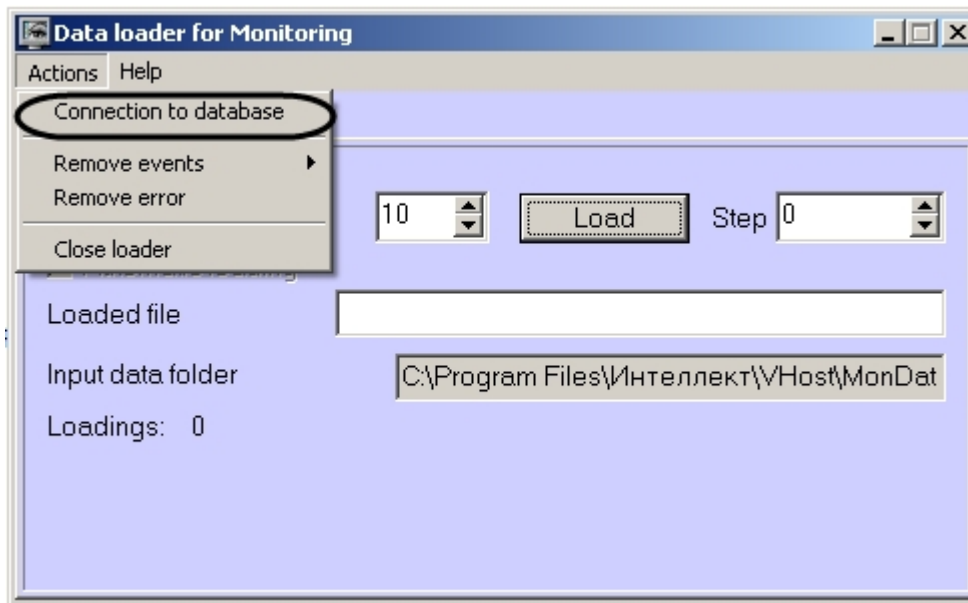


You can specify the following parameters in this window:

1. **Input data folder:** the path to the folder that contains incoming files from Videosrv.
2. **Loading period:** the interval at which files from Videosrv are loaded into the database; this does not apply to alarm messages, which are recorded immediately. Every time data is loaded into the database, a message is sent to the Control Panel interface component to update the information displayed. The Log panel refreshes information from the database every minute.
3. **Automatic loading:** if specified, this is the interval at which file loading is performed. If no value is given, loading can be performed only by clicking the Load button.
4. **Loaded file:** this file displays the name of the currently processed file or error text, if an error occurred during download.
5. Message files from Videosrv are processed in several steps. The **Step** field indicates the current step of processing.

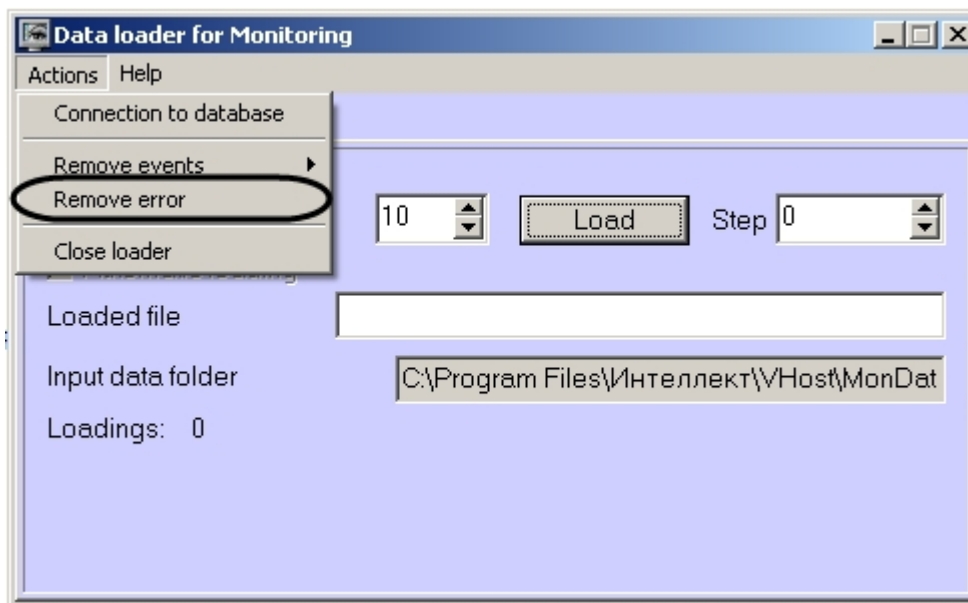
Database connection

The **Connection to database** menu item allows changing the string for connecting to the database.



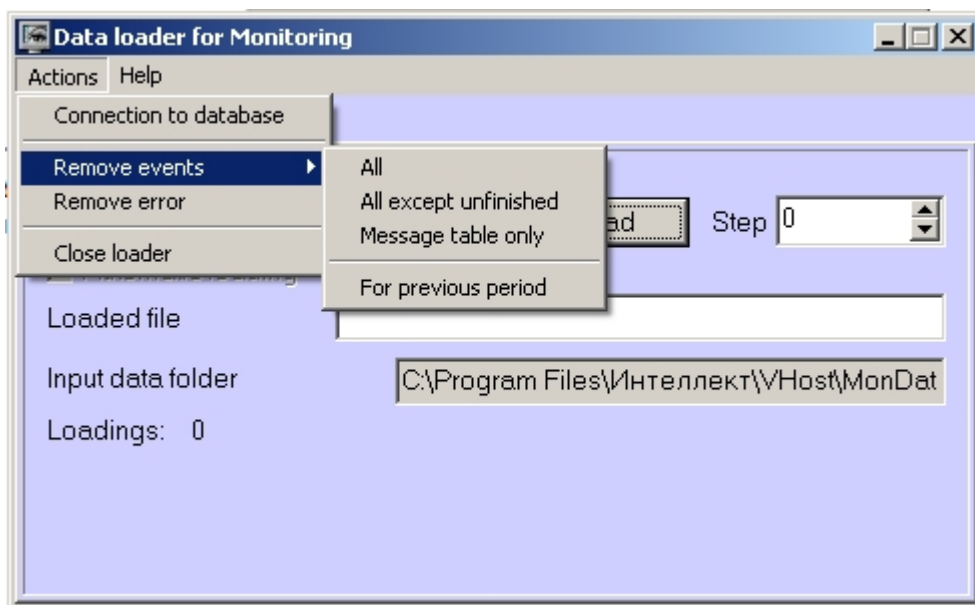
Removing error

If a fault occurred during the load process, the program cannot be closed since the data loading process cannot be interrupted. To close the program, remove the error by selecting the Remove error menu item.



Removing events

The **Remove events** menu item allows clearing the database to various degrees:

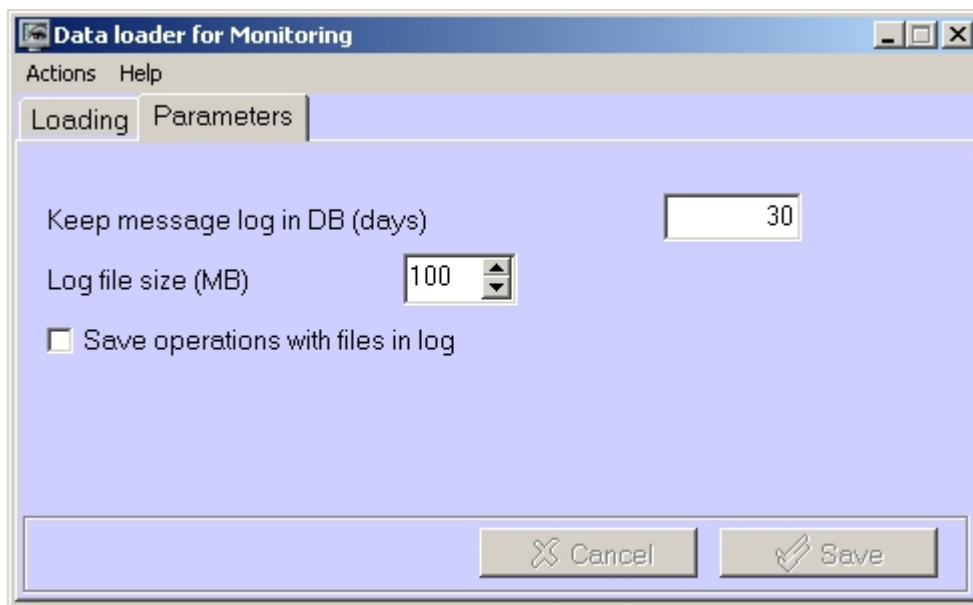


1. **All** – completely clear all alarm data
2. **All except unfinished** – completely clear events but leave information about the beginning of alarms that are ongoing (long alarms)
3. **Message table only** – clear the message log. Allows reducing the size of the database. The duration of time for which the message log is saved in the database can be configured – see [Specifying the duration of the message log storing](#)
4. **For previous period** – clear data for the specified period.

Specifying the duration of the message log storing

The **Parameters** tab allows specifying the duration of time for which the Data loader messages are kept in the log (event log).

The data loader's event log is stored in the <Intellect software installation folder>VHost\MONITOR\LOADER\LoaderSSTV_L_M.log, where M is a month.



1. **Keep message log in DB (days)**: You can specify for how long will the data be kept in the MonitorSSTV database tables.
2. **Log file size (MB)** : the size (in megabytes) of the event log file of the Data loader for Monitoring; when this value is exceeded, the file is archived.
3. **Save operations with files in log**: gives details of file operations by the Data loader for Monitoring in the event log.

ATM-Intellect interface configuration

Interface objects are available at the *ATM-Intellect Workstation* and *ATM-Intellect Workstation TC* installation types.

ATM-Intellect interface includes the following objects:

1. **ATM Monitoring**.
2. **Search in archive** (not available for *ATM-Intellect Workstation TC*).
3. **ATM Monitoring reports**.

These objects are created under the **Display** object on the Interfaces tab. It is recommended to create each of the objects under its own **Display**.

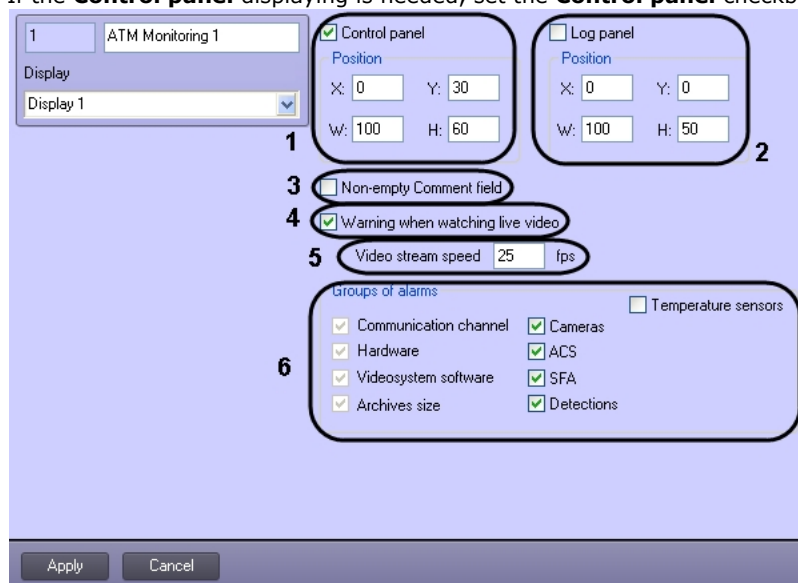


Operations with interface objects are given in the [ATM-Intellect software. Operator's Guide document](#).

Configuring the ATM Monitoring object

To configure the **ATM Monitoring** object proceed as follows:

1. Go to the **ATM Monitoring** settings panel.
2. If the **Control panel** displaying is needed, set the **Control panel** checkbox and specify its coordinates on the screen (1).



3. If the **Log panel** displaying is needed, set the **Log panel** checkbox and specify its coordinates on the screen (2).
4. The setting **Non-empty comment field** is used if the operator is required to comment on the alarm and/or their actions when the alarm is accepted (3). This comment is available for viewing in the event log as well as the name of the operator who accepted the alarm.
5. If when live video is attempted to be viewed from Control Panel it is necessary to display a warning that it can create the critical load per channel, set the **Warning when watching live video** checkbox (4).

**Note.**

This setting is not available for ATM-Intellect Workstation TC installation type.

6. In the **Speed of video stream** field specify the frame rate for live video displaying in frames per second (5). This parameter is used to limit the flow of data between the *ATM Intellect Workstation* and the *ATM Intellect Pro* (for example, in the case of low-bandwidth communication channel) while viewing live video from the objects through the **ATM Monitoring** window (see document [ATM Intellect. Operator's guide](#))

**Note.**

This setting is not available for ATM-Intellect Workstation TC installation type.

7. Select groups of alarms for the **Control panel** and the **Log panel** to be displayed (6).

Configuring the **ATM Monitoring** object is completed.

If display is selected under which the **ATM Monitoring** object is created, the **ATM Monitoring** window will be displayed.

CVT: 6/27/2013 12:49:03 PM

ID	Name	Cameras	Disk, MB	Disks	Software version	15	11:30	11:45	12:00	12:15	12:30	12:45	St.	Duration
386	ATM machine 1													0 00:10:55
387	ATM machine 2													0 00:10:55

CC 27.06.2013 12:45 LL 6/27/2013 12:49:03 PM OB 2 of 2 FO 2 IF% 0.00 IN% 100.00/2

Objects: 2/2 Reference guides CVT: 6/27/2013 12:49:03 PM

ATM machine 1

ATM machine 2

Setting up the Search in archive and ATM Monitoring reports objects

Note.

This **Search in archive** interface object is not available for ATM-Intellect Workstation TC installation type.

To set the objects **Search in archive** and **ATM Monitoring reports** one only needs specify their location on the screen.

1 Search in archive 1

Display
Display 2

Position
X: 0 Y: 0
W: 100 H: 100

1 ATM Monitoring reports 1

Display
Display 3

Position
X: 0 Y: 0
W: 100 H: 100

If display is selected under which the **Search in archive** object is created the **Search in archive** window will be displayed.

Search in archive Downloads

Object name
[550018]ATM machine 3

Search
Period from: 2/ 5/2014 12:00:00 AM
to: 2/ 5/2014 10:32:04 AM
☒ By captions:
☐ By video clips of all cameras
☐ By video clips of camera:
Data receive timeout (min.): 3
Search Cancel

Request
Video Frames

ID	Camera	Date and time	Text
----	--------	---------------	------

Settings

If display is selected under which the **ATM Monitoring reports** object is created the **ATM Monitoring reports** window will be displayed.



Appendix 1. Interfaces

Settings panel of the ATM-Intellect Workstation object

Settings panel of the **ATM-Intellect Workstation** object is given on the figure.

The screenshot shows the 'ATM-Intellect Workstation' settings window. It includes sections for 'Computer' (with a dropdown menu), 'Advanced' (with buttons for Viewing, Monitoring, and Snapshots/video), and 'Transfer' (with fields for TCP/IP ports and COM port settings). There are also checkboxes for 'Event log' (auxiliary characters, alarms, system status, Intellect messages) and 'Archive period' (48h), 'File size' (100MB), and 'Keep archives for' (3 months). At the bottom, there is a table with columns 'ID', 'ID in Intellect', and 'Name', and buttons for 'Add...', 'Edit...', and 'Delete'. The window has 'Apply' and 'Cancel' buttons at the very bottom.

Description of the **ATM-Intellect Workstation** object settings panel elements is given in the table.

#	Parameter	Method for setting the parameter value	Description	Type	Default value	Value range
1	Identifier	Automatically	Shows the identification number of the ATM-Intellect Workstation object in the system	Nonnegative integer	-	≥ 0
2	Parameter	Enter the value in the field	Shows the name of the ATM-Intellect Workstation object in the system	Latin, Cyrillic letters and service characters	ATM-Intellect Workstation	A line representing a sequence of any symbols (letters, digits, service characters apart from > and < symbols), not case-sensitive. Number of symbols – from 1 to 60.
3	Computer	Is selected in the list	Assigns the parent Computer object for the ATM-Intellect Workstation object	Name of the Computer objects registered in the system.	Name of the parent Computer object	Depends on the number of the Computer objects in the system.
4	IIDK interface	Enter the value in the field	Sets the ID number of IIDK interface object used by the <i>ATM-Intellect Workstation</i>	Nonnegative integer	150	≥ 150
5	Event log	Click the button	Opens the <i>ATM-Intellect Workstation</i> event log	-	-	-

Event log group						
6	auxiliary characters	Is set in a checkbox	Enables logging of auxiliary characters at the transport level into the event log	Boolean	False	True - logging of auxiliary characters is enabled False - logging of auxiliary characters is not performed
7	alarms	Is set in a checkbox	Enables logging alarms into the event log	Boolean	True	True - logging of alarms is enabled False - logging of alarms is not performed
8	system status	Is set in a checkbox	Enables logging of events related to system status	Boolean	True	True - logging of events related to system status is enabled False - logging of events related to system status is not performed
9	Intellect messages	Is set in a checkbox	Enables logging of messages from <i>Intellect</i> software. The log is stored in < <i>Intellect</i> installation>\VHost\video.log	Boolean	True	Yes - logging of messages from Intellect software is enabled Yes - logging of messages from Intellect software is disabled
10	Archive period (h)	Enter the value in the field	Sets the frequency at which the event log is to be archived	Hours	48	>0
11	File size (MB)	Enter the value in the field	Sets the file size threshold upon which the event log is archived. This setting overrides the value in the Archive frequency field.	Megabytes	100	>0
12	Keep archives for (months)	Enter the value in the field	Sets the length of time for which you want to store archived event logs.	Months	3	from 1 to 24
Advanced group						
13	Viewing...	Click the button	Opens a dialog box for selecting data to display in the Event viewer.	-	-	-
14	Monitoring...	Click the button	Opens a dialog box for setting data transmission onto <i>ATM-Intellect Workstation TC</i>	-	-	-
15	Snapshots/video...	Click the button	Opens a dialog box for configuring reaction to snapshots and videos receiving on sensors alarms at the <i>ATM-Intellect Pro</i>	-	-	-
Transfer group						
16	TCP/IP port (ATM)	Enter the value in the field	Sets the port number for TCP/IP communication with remote objects of ATM-Intellect Pro	Nonnegative integer	7777	from 1 to 65535
17	TCP/IP port (Archive)	Enter the value in the field	Sets the port number for TCP/IP communication with remote <i>Search in archive</i> module	Nonnegative integer	7755	from 1 to 65535
18	First COM port number	Is selected in the list	Sets the first COM port number	COM-ports names	Com1	from Com1 to Com256
19	Number of COM ports	Is selected in the list	Sets number of COM ports used	Nonnegative integer	1	from 1 to 256

20	COM port speed	Is selected in the list	Sets the COM port speed	Baud	9600	110 300 1200 2400 4800 9600 19200 38400 57600
21	COM port format	Enter the value in the field	Sets the COM port format	COM port format	8N1	- first digit: from 5 to 9 data bits; - second letter: N (No parity) - no parity bit, E (Even parity) - even parity bit, O (Odd parity) - odd parity bit; - third digit: 1 or 2 stop bits.
Outside the groups						
22	Restart	Click the button	<i>VideoSrv</i> communication module restarting	-	-	-
23	Surveillance Object objects	Using the Add, Edit and Delete buttons	Displays the list of Surveillance Object objects for which monitoring of status is performed from the <i>ATM-Intellect Workstation</i>	-	-	-
24	Sort by	Is selected in the list	Sets the sorting method for Surveillance Object objects in the table	Sorting methods	ID	ID ID in Intellect Name
25	>	Click the button	Apply the sorting method selected in the Sort by list	-	-	-
26	Add...	Click the button	Opens a dialog box for adding a Surveillance Object into the list	-	-	-
27	Edit...	Click the button	Opens a dialog box for editing a Surveillance Object in the list This window is the same as for adding a Surveillance Object	-	-	-
28	Delete	Click the button	Deletes a Surveillance Object from the list	-	-	-

Settings panel of the ATM-Intellect Workstation TC object

Settings panel of the **ATM-Intellect Workstation TC** object is given on figure.

The screenshot shows the 'ATM-Intellect Workstation TC' settings window. It includes a 'Computer' dropdown (3), an 'Advanced' section with a 'Viewing...' button (13), and a 'Restart' button (19). The 'Event log' section (5) contains checkboxes for 'auxiliary characters' (6), 'alarms' (7), 'system status' (8), and 'Intellect messages' (9), along with an 'IIDK interface' field (4) set to 150. The 'Transfer' section includes 'TCP/IP port (ATM)' (14) set to 7777, 'First COM port number' (15) set to Com1, 'Number of COM ports' (16) set to 1, 'COM port speed' (17) set to 9600, and 'COM port format' (18) set to 8N1. The 'Archive period (h)' (10) is 48, and 'File size (MB)' (11) is 100. At the bottom, there is a table area (20) with a 'Sort by' dropdown (21) set to ID, and 'Add...' (23), 'Edit...' (24), and 'Delete' (25) buttons. The window has 'Apply' and 'Cancel' buttons at the very bottom.

Description of the **ATM-Intellect Workstation TC** object settings panel elements is given in the table.

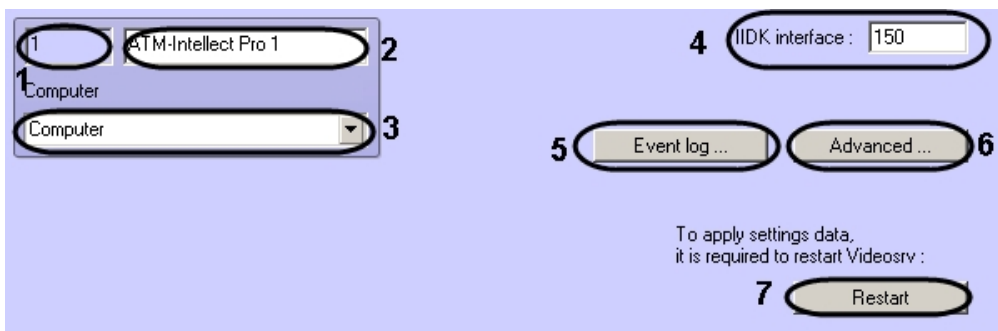
#	Parameter	Method for setting the parameter value	Description	Type	Default value	Value range
1	Identifier	Automatically	Shows the identification number of the ATM-Intellect Workstation TC object in the system	Nonnegative integer	-	≥ 0
2	Parameter	Enter the value in the field	Shows the name of the ATM-Intellect Workstation TC object in the system	Latin, Cyrillic letters and service characters	ATM-Intellect Workstation TC	A line representing a sequence of any symbols (letters, digits, service characters apart from > and < symbols), not case-sensitive. Number of symbols – from 1 to 60.
3	Computer	Is selected in the list	Assigns the parent Computer object for the ATM-Intellect Workstation TC object	Name of the Computer objects registered in the system.	Name of the parent Computer object	Depends on the number of the Computer objects in the system.
4	IIDK interface	Enter the value in the field	Sets the ID number of IIDK interface object used by the <i>ATM-Intellect Workstation TC</i>	Nonnegative integer	150	≥ 150
5	Event log	Click the button	Opens the <i>ATM-Intellect Workstation TC</i> event log	-	-	-

Event log group						
6	auxiliary characters	Is set in a checkbox	Enables logging of auxiliary characters at the transport level into the event log	Boolean	False	True - logging of auxiliary characters is enabled False - logging of auxiliary characters is not performed
7	alarms	Is set in a checkbox	Enables logging alarms into the event log	Boolean	True	True - logging of alarms is enabled False - logging of alarms is not performed
8	system status	Is set in a checkbox	Enables logging of events related to system status	Boolean	True	True - logging of events related to system status is enabled False - logging of events related to system status is not performed
9	Intellect messages	Is set in a checkbox	Enables logging of messages from <i>Intellect</i> software The log is stored in < <i>Intellect</i> installation>\VHost\video.log	Boolean	True	Yes - logging of messages from Intellect software is enabled Yes - logging of messages from Intellect software is disabled
10	Archive period (h)	Enter the value in the field	Sets the frequency at which the event log is to be archived	Hours	48	>0
11	File size (MB)	Enter the value in the field	Sets the file size threshold upon which the event log is archived. This setting overrides the value in the Archive frequency field.	Megabytes	100	>0
12	Keep archives for (months)	Enter the value in the field	Sets the length of time for which you want to store archived event logs.	Months	3	from 1 to 24
Advanced group						
13	Viewing...	Click the button	Opens a dialog box for selecting data to display in the Event viewer.	-	-	-
Transfer group						
14	TCP/IP port (ATM)	Enter the value in the field	Sets the port number for TCP/IP communication with remote objects of ATM-Intellect ARM	Nonnegative integer	7777	from 1 to 65535
15	First COM port number	Is selected in the list	Sets the first COM port number	COM-ports names	Com1	from Com1 to Com256
16	Number of COM ports	Is selected in the list	Sets number of COM ports used	Nonnegative integer	1	from 1 to 256

27	COM port speed	Is selected in the list	Sets the COM port speed	Baud	9600	110 300 1200 2400 4800 9600 19200 38400 57600
28	COM port format	Enter the value in the field	Sets the COM port format	COM port format	8N1	• first digit: from 5 to 9 data bits; • second letter: N (No parity) - no parity bit, E (Even parity) - even parity bit, O (Odd parity) - odd parity bit; • third digit: 1 or 2 stop bits.
Outside the groups						
29	Restart	Click the button	<i>VideoSrv</i> communication module restarting	-	-	-
20	Surveillance Object objects	Using the Add, Edit and Delete buttons	Displays the list of Surveillance Object objects for which monitoring of status is performed from the <i>ATM-Intellect Workstation TC</i>	-	-	-
21	Sort by	Is selected in the list	Sets the sorting method for Surveillance Object objects in the table	Sorting methods	ID	ID ID in Intellect Name
22	>	Click the button	Apply the sorting method selected in the Sort by list	-	-	-
23	Add...	Click the button	Opens a dialog box for adding a Surveillance Object into the list	-	-	-
24	Edit...	Click the button	Opens a dialog box for editing a Surveillance Object in the list This window is the same as for adding a Surveillance Object	-	-	-
25	Delete	Click the button	Deletes a Surveillance Object from the list	-	-	-

Settings panel of the ATM-Intellect Pro object

Settings panel of the **ATM-Intellect Pro** object is given on figure.



Description of the **ATM-Intellect Pro** object settings panel elements is given in the table.

#	Parameter	Method for setting the parameter value	Description	Type	Default value	Value range
1	Identifier	Automatically	Shows the identification number of the ATM-Intellect Pro object in the system	Nonnegative integer	-	≥ 0
2	Parameter	Enter the value in the field	Shows the name of the ATM-Intellect Pro object in the system	Latin, Cyrillic letters and service characters	ATM-Intellect Pro	A line representing a sequence of any symbols (letters, digits, service characters apart from > and < symbols), not case-sensitive. Number of symbols – from 1 to 60.
3	Computer	Is selected in the list	Assigns the parent Computer object for the ATM-Intellect Pro object	Name of the Computer objects registered in the system.	Name of the parent Computer object	Depends on the number of the Computer objects in the system.
4	IIDK interface	Enter the value in the field	Sets the ID number of IIDK interface object used by the ATM-Intellect Pro	Nonnegative integer	150	≥ 150
5	Event log...	Click the button	Opens a dialog box for setting event log parameters	-	-	-
6	Advanced...	Click the button	Opens a dialog box for setting up time synchronization and control of connection	-	-	-
7	Restart	Click the button	VideoSrv communication module restarting	-	-	-

Settings panel of the Surveillance object object

Settings panel of the **Surveillance object** object is given on the figure.

The screenshot shows the 'Surveillance object' settings panel. It includes fields for 'Surveillance Object 1' (1), 'ATM-Intellect Pro 1' (3), 'ID' (4, value 386), 'TCP port (UPS-SCS)' (5, value 8888), and a 'Transmitting ...' button (6). There is a 'Cameras ...' button (8) and a 'Titles' section with a 'Display time (sec):' dropdown (14, value 10). Below this are checkboxes for 'Date and time' (15), 'ATM number' (16), 'Card status' (17), 'Amount' (18), 'Card number' (19), and 'Mask' (20). A 'Sensors' section has 'Add ...' (11), 'Edit ...' (12), and 'Delete' (13) buttons. At the bottom, there is a 'temperature sensor set' checkbox (10) and a 'Sensors: 0' indicator.

Description of the **Surveillance object** object settings panel elements is given in the table.

#	Parameter	Method for setting the parameter value	Description	Type	Default value	Value range
1	Identifier	Automatically	Shows the identification number of the Surveillance object object in the system	Nonnegative integer	-	Depends on number of Surveillance object objects in the system
2	Parameter	Enter the value in the field	Shows the name of the Surveillance object object in the system	Latin, Cyrillic letters and service characters	Surveillance object	A line representing a sequence of any symbols (letters, digits, service characters apart from > and < symbols), not case-sensitive. Number of symbols – from 1 to 60.
3	ATM-Intellect Pro	Is selected in the list	Assigns the parent ATM-Intellect Pro object for the Surveillance object object	Names of Surveillance object objects registered in the system	Name of the parent ATM-Intellect Pro object	Depends on the number of the ATM-Intellect Pro objects in the system.
4	ID	Enter the value in the field	Sets the unique ID number of the ATM machine	Nonnegative integer	386	>=0

5	TCP port (UPS)	Enter the value in the field	Sets the port on which to "listen" for UPS messages	Nonnegative integer	8888	from 1 to 65535
6	Transmitting...	Click the button	Opens a dialog box with settings for configuring the communication between <i>ATM-Intellect Pro</i> and <i>ATM-Intellect Workstation</i>	-	-	-
7	Cameras	Using the Cameras... button	Displays the list of cameras whose state and archives are monitored by <i>ATM-Intellect Pro</i> and operating with which shall be available from <i>ATM-Intellect</i> software interface.	-	-	-
8	Cameras...	Click the button	Opens a dialog box for adding cameras for monitoring their status	-	-	-
9	Sensors	Using the Add , Edit and Delete buttons	Displays IDs and types of sensors whose state is monitored by <i>ATM-Intellect Pro</i> and on whose triggering video data are sent to the <i>ATM-Intellect Workstation</i> .	-	-	-
10	temperature sensor set	Is set in a checkbox	Specifies if monitoring to ensure that temperatures do not deviate from an allowed range is performed using temperature sensors	Boolean	False	True - temperature sensors set is in use False - temperature sensors set is not in use
11	Add...	Click the button	Opens a dialog box for adding a sensor. In this dialog box one can also setup video data sending on the sensor triggering	-	-	-
12	Edit...	Click the button	Opens a dialog box for editing the sensor. This dialog box is similar to the one for adding a sensor	-	-	-
13	Delete	Click the button	Deletes sensor from the list	-	-	-
Titles group						
14	Displaying time (sec.)	Is selected in the list	Sets duration of captions displaying on video image beginning at the moment of corresponding event appearing from the secured object (ATM)	Seconds	10	5, 10, 15, 20, 30, 45, 60, 90, 120, 200
15	Date and time	Is set in a checkbox	Specifies if it is necessary to include event date and time into the captions	Boolean	True	Yes - date and time are included into the captions No - date and time are not included into the captions
16	ATM number	Is set in a checkbox	Specifies if it is necessary to include into the captions the number of ATM from which the event came	Boolean	True	Yes - ATM number is included into the captions No - ATM number is not included into the captions
17	card status	Is set in a checkbox	Specifies if it is necessary to include data on card status into the captions	Boolean	True	Yes - card status is included into the captions No - card status is not included into the captions
18	amount	Is set in a checkbox	Specifies if it is necessary to include operation amount into the captions	Boolean	True	Yes - amount is included into the captions No - amount is not included into the captions

19	card number	Is set in a checkbox	Specifies if it is necessary to include card number into the captions	Boolean	True	Yes - ATM number is included into the captions No - ATM number is not included into the captions
20	mask	Is set in a checkbox	Specifies if it is necessary to apply mask to a card number when displaying in in the captions	Boolean	True	Yes - card number is masked No - card number is fully displayed

Settings panel of the ATM Monitoring interface object

Settings panel of the **ATM Monitoring** interface object is given on the figure.

The screenshot shows the settings panel for the 'ATM Monitoring 1' interface object. The panel is light blue and contains various configuration options. Numbered callouts (1-17) point to specific elements:

- 1: Identifier field (text box)
- 2: Display name field (text box)
- 3: Display selection dropdown (currently showing 'Display 1')
- 4: 'Control panel' checkbox (checked)
- 5: 'Position' label for the control panel
- 6: 'X' coordinate input (0)
- 7: 'Y' coordinate input (50)
- 8: 'W' (width) input (100)
- 9: 'Log panel' checkbox (checked)
- 10: 'Position' label for the log panel
- 11: 'X' coordinate input (0)
- 12: 'Y' coordinate input (0)
- 13: 'W' (width) input (100)
- 14: 'Non-empty Comment field' checkbox (checked)
- 15: 'Warning when watching live video' checkbox (checked)
- 16: 'Video stream speed' dropdown (25) and 'fps' label
- 17: 'Groups of alarms' section containing:
 - 'Communication channel' checkbox (checked)
 - 'Cameras' checkbox (checked)
 - 'Hardware' checkbox (checked)
 - 'ACS' checkbox (checked)
 - 'Videosystem software' checkbox (checked)
 - 'SFA' checkbox (checked)
 - 'Archives size' checkbox (checked)
 - 'Detections' checkbox (checked)
 - 'Temperature sensors' checkbox (unchecked)

Description of the **ATM Monitoring** object settings panel elements is given in the table.

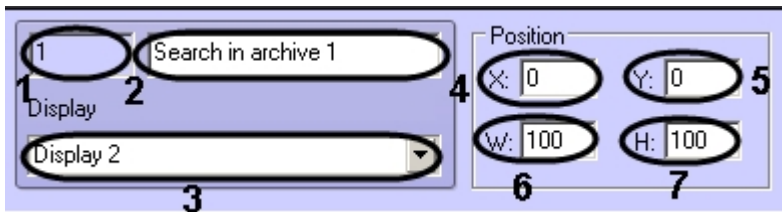
#	Parameter	Method for setting the parameter value	Description	Type	Default value	Value range
1	Identifier	Automatically	Shows the identification number of the ATM Monitoring reports object in the system	Nonnegative integer	-	≥ 0

2	Parameter	Enter the value in the field	Shows the name of the ATM Monitoring object in the system	Latin, Cyrillic letters and service characters	ATM Monitoring	A line representing a sequence of any symbols (letters, digits, service characters apart from > and < symbols), not case-sensitive. Number of symbols – from 1 to 60.
3	Display	Is selected in the list	Assigns the parent Display object for the ATM Monitoring object	Names of Display objects registered in the system	Name of the parent Display object	Depends on the number of the Display objects in the system.
4	Control panel	Is set in a checkbox	Enables Control panel displaying	Boolean	True	True - Control panel is displayed False - Control panel is hidden
5	X:	Enter the value in the field	Set the X coordinate in the horizontal axis for the upper-left corner of the Control panel interface box	% of the screen width	0	from 0 to 100. When more than one monitor is connected to the computer it is possible to use coordinates outside this range, but it is not recommended to use coordinates less than -200.
6	Y:	Enter the value in the field	Set the Y coordinate in the vertical axis for the upper-left corner of the Control panel interface box	% of the screen height	50	from 0 to 100. When more than one monitor is connected to the computer it is possible to use coordinates outside this range, but it is not recommended to use coordinates less than -200.
7	W:	Enter the value in the field	Set the width of the Control panel interface box	% of the screen width	100	from 0 to 100. When more than one monitor is connected to the computer it is possible to use coordinates outside this range, but it is not recommended to use coordinates less than -200.
8	H:	Enter the value in the field	Set the height of the Control panel interface box	% of the screen height	50	from 0 to 100. When more than one monitor is connected to the computer it is possible to use coordinates outside this range, but it is not recommended to use coordinates less than -200.
9	Log panel	Is set in a checkbox	Enables Log panel displaying	Boolean	True	True - Log panel is displayed False - Log panel is hidden
10	X:	Enter the value in the field	Set the X coordinate in the horizontal axis for the upper-left corner of the Log panel interface box	% of the screen width	0	from 0 to 100. When more than one monitor is connected to the computer it is possible to use coordinates outside this range, but it is not recommended to use coordinates less than -200.
11	Y:	Enter the value in the field	Set the Y coordinate in the vertical axis for the upper-left corner of the Log panel interface box	% of the screen height	0	from 0 to 100. When more than one monitor is connected to the computer it is possible to use coordinates outside this range, but it is not recommended to use coordinates less than -200.
12	W:	Enter the value in the field	Set the width of the Log panel interface box	% of the screen width	100	from 0 to 100. When more than one monitor is connected to the computer it is possible to use coordinates outside this range, but it is not recommended to use coordinates less than -200.
13	H:	Enter the value in the field	Set the height of the Log panel interface box	% of the screen width	50	from 0 to 100. When more than one monitor is connected to the computer it is possible to use coordinates outside this range, but it is not recommended to use coordinates less than -200.
14	Non-empty Comment field	Is set in a checkbox	Is set to require that operators leave comments when accepting an alarm to describe the alarm and/or their actions	Boolean	True	True - Comment field shall not be empty on alarm accepting False - alarm accepting can be done without a comment from Operator

15	Warning when watching live video	Is set in a checkbox	Is set if when live video is attempted to be viewed from Control Panel it is necessary to display a warning that it can create the critical load per data channel Attention! This setting is not available at the ATM-Intellect Workstation TC	Boolean	True	True - when live video is attempted to be viewed from Control Panel the warning is displayed False - when live video is attempted to be viewed from Control Panel the video is displayed with no warnings
16	Video stream speed	Enter the value in the field	Sets the frame rate for live video displaying Attention! This setting is not available at the ATM-Intellect Workstation TC	Frames per second	25	Depends on the camera features
17	Groups of alarms	Is set in a checkbox	Sets alarms that one want to visualize on the Control panel	Boolean	All checkboxes except the Temperature sensors are set	If checkbox is set next to the group of alarms, then alarm from the corresponding group will be displayed on the Control panel

Settings panel of the Search in archive interface object

Settings panel of the **Search in archive** interface object is given on the figure.



Description of the **Search in archive** object settings panel elements is given in the table.

#	Parameter	Method for setting the parameter value	Description	Type	Default value	Value range
1	Identifier	Automatically	Shows the identification number of the Search in archive object in the system	Nonnegative integer	-	≥ 0
2	Parameter	Enter the value in the field	Shows the name of the Search in archive object in the system	Latin, Cyrillic letters and service characters	Monitoring	A line representing a sequence of any symbols (letters, digits, service characters apart from > and < symbols), not case-sensitive. Number of symbols – from 1 to 60.
3	Display	Is selected in the list	Assigns the parent Display object for the Search in archive object	Names of Display objects registered in the system	Name of the parent Display object	Depends on the number of the Display objects in the system.
4	X:	Enter the value in the field	Set the X coordinate in the horizontal axis for the upper-left corner of the Search in archive interface box	% of the screen width	0	from 0 to 100. When more than one monitor is connected to the computer it is possible to use coordinates outside this range, but it is not recommended to use coordinates less than -200.

5	Y:	Enter the value in the field	Set the Y coordinate in the vertical axis for the upper-left corner of the Search in archive interface box	% of the screen height	50	from 0 to 100. When more than one monitor is connected to the computer it is possible to use coordinates outside this range, but it is not recommended to use coordinates less than -200.
6	W:	Enter the value in the field	Sets width of the Search in archive interface box	% of the screen width	100	from 0 to 100. When more than one monitor is connected to the computer it is possible to use coordinates outside this range, but it is not recommended to use coordinates less than -200.
7	H:	Enter the value in the field	Sets height of the Search in archive interface box	% of the screen height	50	from 0 to 100. When more than one monitor is connected to the computer it is possible to use coordinates outside this range, but it is not recommended to use coordinates less than -200.

Settings panel of the ATM Monitoring reports interface object

Settings panel of the **ATM Monitoring reports** interface object is given on the figure.



Description of the **ATM Monitoring reports** object settings panel elements is given in the table.

#	Parameter	Method for setting the parameter value	Description	Type	Default value	Value range
1	Identifier	Automatically	Shows the identification number of the ATM Monitoring reports object in the system	Nonnegative integer	-	≥ 0
2	Parameter	Enter the value in the field	Shows the identification number of the ATM Monitoring reports object in the system	Latin, Cyrillic letters and service characters	Monitoring	A line representing a sequence of any symbols (letters, digits, service characters apart from > and < symbols), not case-sensitive. Number of symbols – from 1 to 60.
3	Display	Is selected in the list	Assigns the parent Display object for the ATM Monitoring reports object	Names of Display objects registered in the system	Name of the parent Display object	Depends on the number of the Display objects in the system.
4	X:	Enter the value in the field	Set the X coordinate in the horizontal axis for the upper-left corner of the ATM Monitoring reports interface box	% of the screen width	0	from 0 to 100. When more than one monitor is connected to the computer it is possible to use coordinates outside this range, but it is not recommended to use coordinates less than -200.
5	Y:	Enter the value in the field	Set the Y coordinate in the vertical axis for the upper-left corner of the ATM Monitoring reports interface box	% of the screen height	50	from 0 to 100. When more than one monitor is connected to the computer it is possible to use coordinates outside this range, but it is not recommended to use coordinates less than -200.

6	W:	Enter the value in the field	Sets width of the ATM Monitoring reports interface box	% of the screen width	100	from 0 to 100. When more than one monitor is connected to the computer it is possible to use coordinates outside this range, but it is not recommended to use coordinates less than -200.
7	H:	Enter the value in the field	Sets height of the ATM Monitoring reports interface box	% of the screen height	50	from 0 to 100. When more than one monitor is connected to the computer it is possible to use coordinates outside this range, but it is not recommended to use coordinates less than -200.

Appendix 2. Examples of scripts

Example of script to suspend recording on camera

If you want to attach a JPEG frame or video fragment to the alarm message that is sent when a sensor is activated (**Sensor** object), remember that attachment is made only after the current archive file is written to disk. To reduce the waiting time (the **Post-alarm time (sec)** value, see [Setting up sensors](#)) and to guarantee that camera footage will be recorded, you can create the following **Program** object in Intellect, on the **Programming** tab.

This script is written for a camera with ID number 1 and for a Sensor object whose ID number is 1 as well. With this script, we can set the *Post-alarm time* value to 7 seconds.

```

OnEvent("GRAY","1","ALARM")
{
[
  if( !CheckState("CAM","1","DETACHED") )
  {
    DoReact("CAM","1","REC_ROLLBACK");
    Wait(5);
    DoReact("CAM","1","REC_STOP");
  }
]
}
OnEvent("GRAY","1","ALARM")
{
[
  Wait(2);
  DoReact("GRAY","1","CONFIRM");
  Wait(2);
  DoReact("GRAY","1","ARM");
]
}

```

For constant recording mode, do not perform any commands for starting or stopping camera recording (REC_ROLLBACK и REC_STOP). In this case the following script variations can be used:

1. **Variation 1:** when captioning is disabled in sensors settings. In this case ATM-Intellect Pro does not stop recording and the program shall be as follows:

```

OnEvent("GRAY","1","ALARM")
{
[
    Wait(5); // Specifies the time after which the recording should be stopped in order to get the required clip length or number of frames
    DoReact("CAM","1","REC_STOP");
    Wait(2); // Pre-alarm record time in the camera settings = 2 sec.
    DoReact("CAM","1","REC_ROLLBACK"); // Start recording with pre-alarm recording of 2 seconds. This allows us not to lose data in the archive.
]
}

```

2. **Variation 2:** when captioning is enabled in sensors settings. In this case ATM-Intellect Pro stops recording in specified time after captions are put onto video image. The program shall be as follows:

```

OnEvent("GRAY","1","ALARM")
{
[
    Wait(7); // This time equals to captions displaying time + 2 seconds of pre-alarm recording
    DoReact("CAM","1","REC_ROLLBACK"); // Start recording with pre-alarm recording of 2 seconds. This allows us not to lose data in the archive.
]
}

```

Example of script with using of ATM events

If the way of captioning ATM events used in ATM-Intellect Pro by default is unacceptable in some reason (the **ATM events captioning** checkbox is set in the **Surveillance object** settings - see [Configuring video cameras list](#)), then one can disable this setting and implement a new scenario using scripts. For example, in this case record can be initiated on some ATM event or events and stopped on another ATM event or events.

Example of script on built-in Intellect programming language for captioning on **Card inserted** event is given below:

```

OnEvent("ATM_ITV","1","INSERT_CARD")
{
[
  if( !CheckState("CAM","1","DETACHED") )
  {
    DoReact("CAM","1","REC");
    DoReact("CAM","1","ADD_SUBTITLES","command<"+param2+" ID : "+param1+"\r>,page<BEGIN>,title_id<1>");
    DoReact("CAM","1","ADD_SUBTITLES","command<CARD No: "+param0+"\r>,title_id<1>");
    DoReact("CAM","1","ADD_SUBTITLES","command<EVENT: Card inserted\r>,title_id<1>");
    Wait(5);
    DoReact("CAM","1","ADD_SUBTITLES","command< \r>,page<END>,title_id<1>");
    DoReact("CAM","1","CLEAR_SUBTITLES","title_id<1>");
    DoReact("CAM","1","REC_STOP");
  }
]
}

```

As a result of the script, the following info will be displayed on a video image for 5 seconds.



Appendix 3. ATM Event Capture utility

Purpose of the ATM Event Capture

ATM Event Capture utility is designed for capturing events from the ATM card-reader and transferring information of them to the *ATM-Intellect Pro*, which provides displaying of captions above the video image.

Requirements to the operating system and pre-installed software

ATM Event Capture is implemented as a service, compatible with the operation systems supported by the Intellect software (see the *Operating system requirements* chapter in the [Intellect: Administrator's Guide](#)).

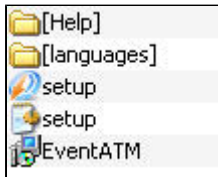
The standard OS settings do not need to be changed for installation. On Windows 7 or latest OS, you must disable UAC. In Windows 8 and 8.1 it is necessary to configure security policies in order to entirely disable UAC (configuring security policies is described in the [Intellect: Administrator's Guide](#)).

Before installation, the XFS environment from the ATM vendor must be installed as well. ATM Event Capture is compatible with XFS versions 2.0 through 3.2.

Installing ATM Event Capture

ATM Event Capture installer description

The picture below shows the *ATM Event capture* software installer content.



Documentation is available in the Help folder.

Use the setup.exe file to install *ATM Event capture* software.

Installation language is selected in the same way as when installing *ATM-Intellect* (see [Installer description](#)).

Preparing to install ATM Event Capture

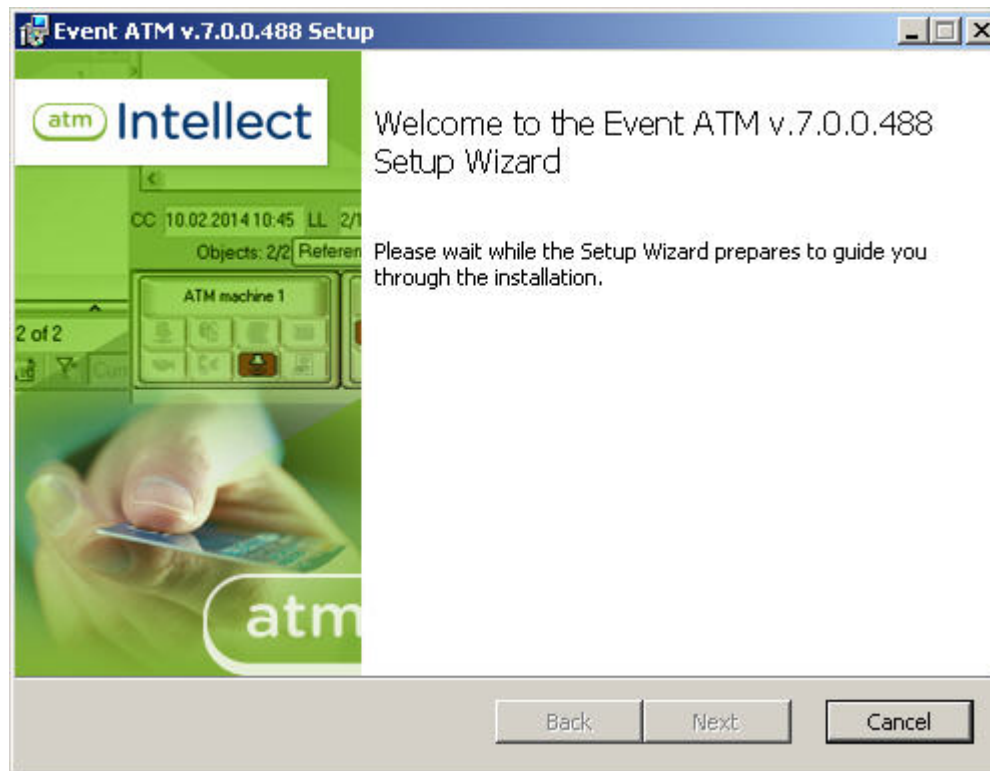
Before starting installation, copy the installer package to a local disk and make sure that the installer files are not marked as "read-only".

Installation of ATM Event Capture must be performed by a user with administrator rights.

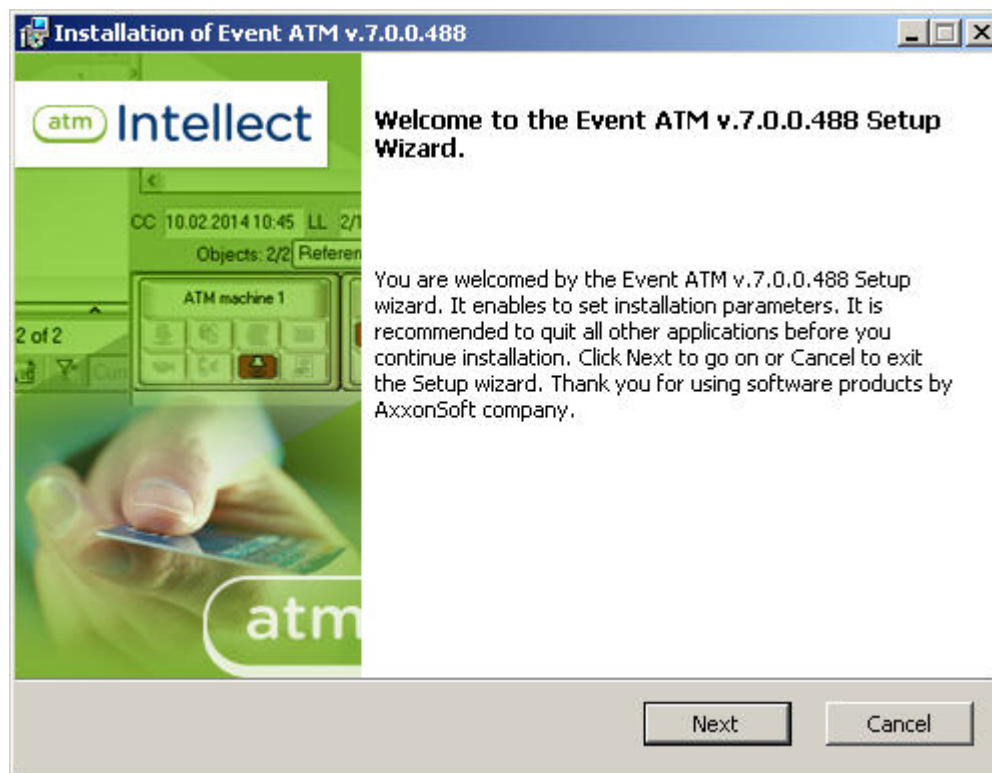
Installation steps

To install the ATM Event Capture utility, do the following:

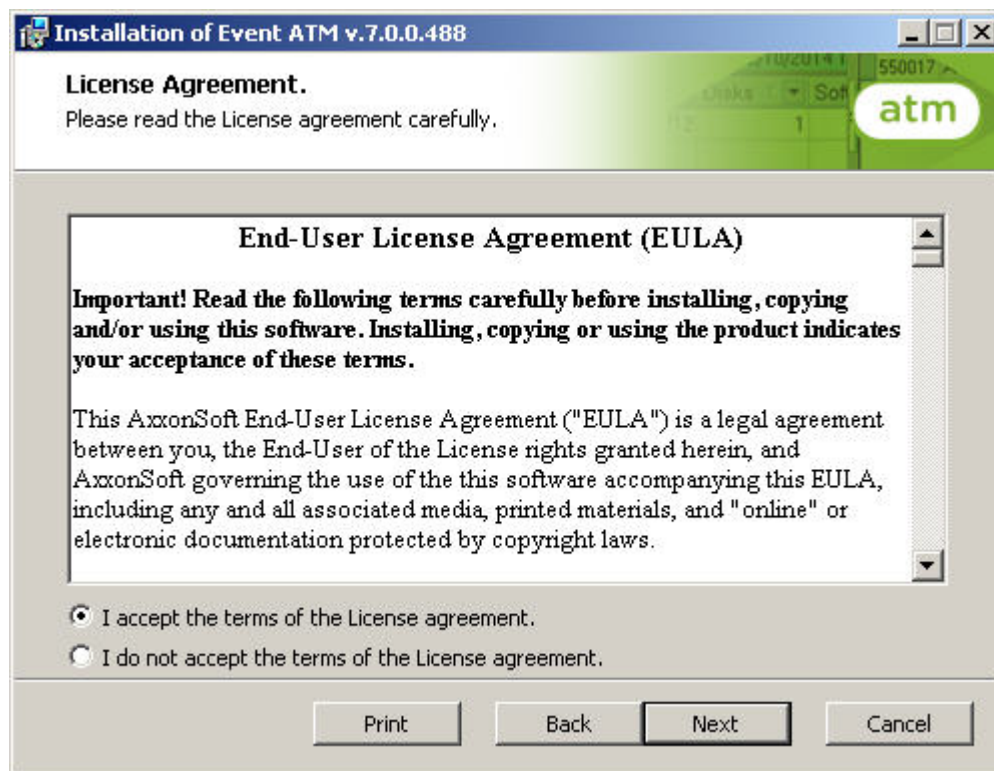
1. To start installation from the installation kit, start the file setup.exe. The installation wizard informs that the installation process has begun.



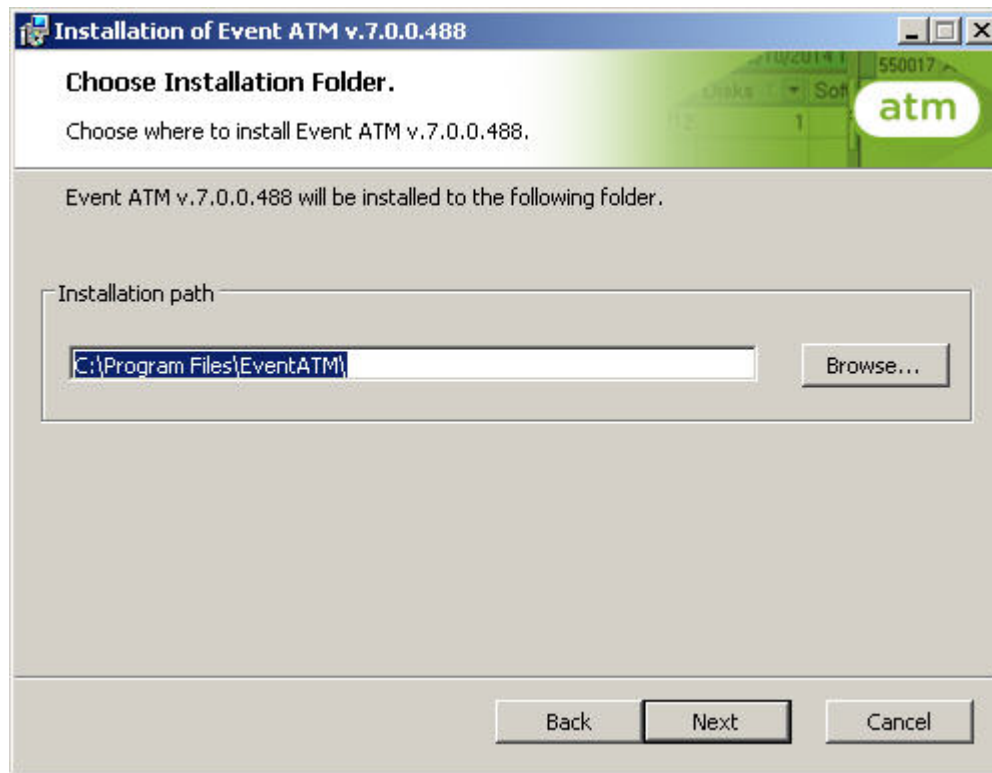
2. You are prompted to start installation. Click the **Next** button.



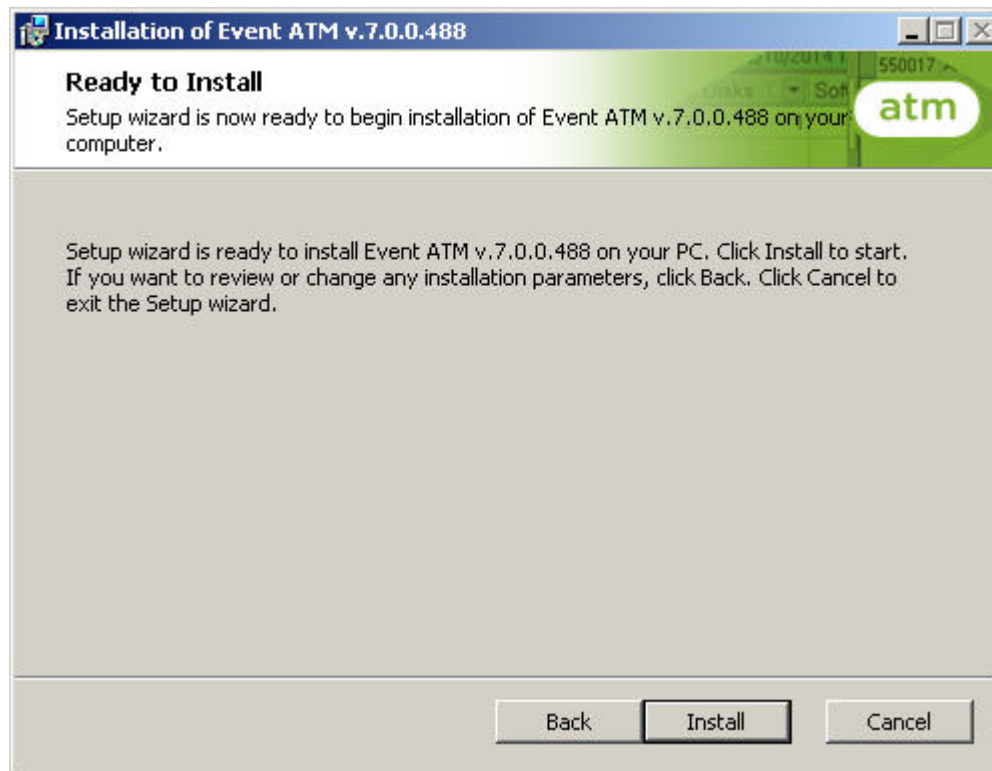
3. In the **License agreement** window read the terms of the End-User License Agreement . Set the switch into the **I accept the terms in the license agreement** position and press **Next**.



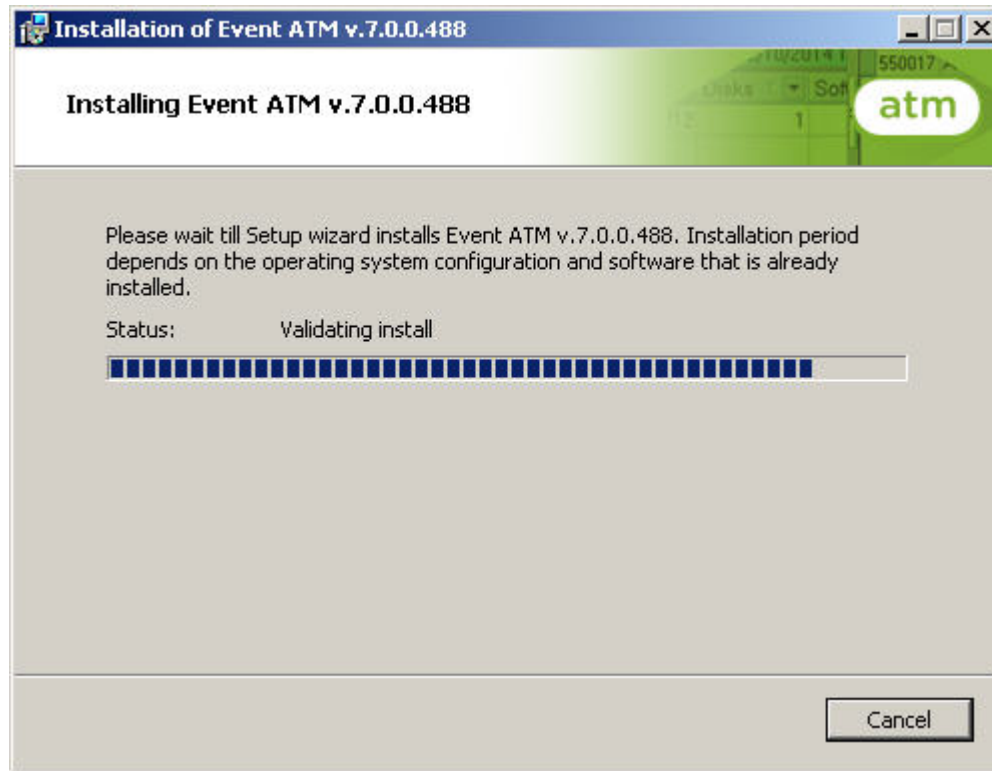
4. In the wizard page that appears, specify the path to the folder in which the software will be installed.



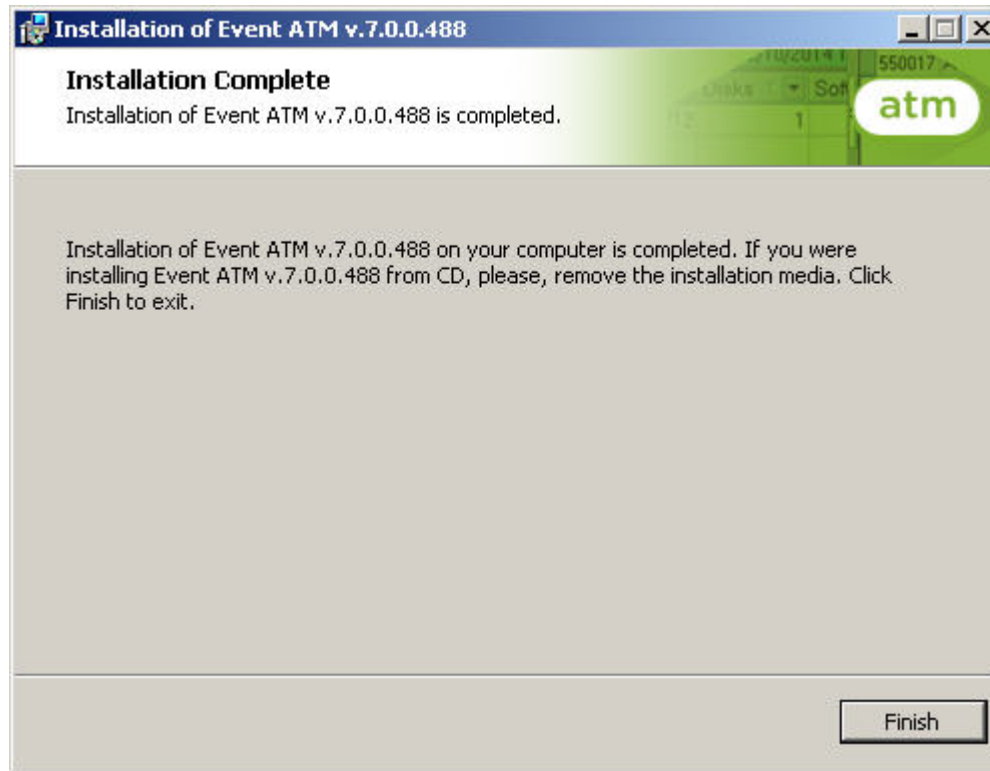
- If you do not want to use the default folder, click the **Change...** button and specify another folder. Otherwise, click the **Next** button.
5. Click **Install** on the next pane.



6. The ATM Event Capture utility is installed.



7. After final installation tasks are completed, the wizard informs that the software has been successfully installed.

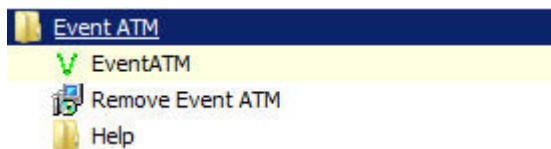


ATM Event Capture installation is completed.

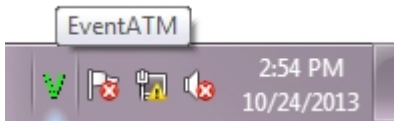
ATM Event Capture configuration

ATM Event Capture starting

To start ATM Event Capture select **Start>All Programs>EventATM>EventATM**.



The program icon (a green checkmark) appears in the taskbar notification area (system tray).



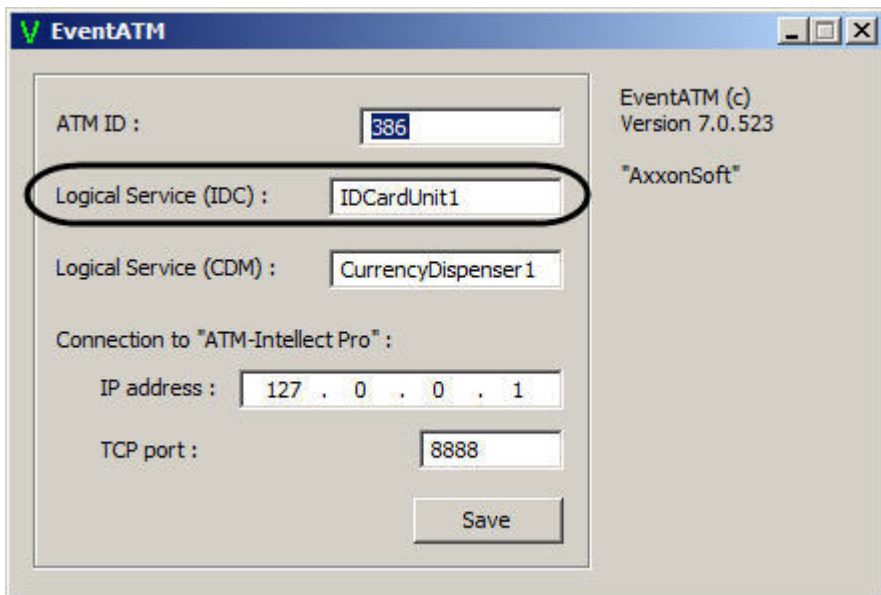
Double-clicking the icon opens a dialog box with settings for ATM Event Capture.

The image shows the EventATM dialog box. The title bar is blue with a green 'V' logo and the text 'EventATM'. The dialog box has a light gray background. On the right side, it says 'EventATM (c)' and 'Version 7.0.523'. Below that, it says '"AxxonSoft"'. The main area contains several input fields: 'ATM ID : 386', 'Logical Service (IDC) : IDCardUnit1', 'Logical Service (CDM) : CurrencyDispenser1', 'Connection to "ATM-Intellect Pro" :', 'IP address : 127 . 0 . 0 . 1', and 'TCP port : 8888'. There is a 'Save' button at the bottom.

This dialog box allows configuring compatibility with the ATM XFS environment and with ATM Intellect Pro.

Configuring the connection to the card reader service provider

To configure the connection to the card reader service provider (IDC), set the **Logical service (IDC)** parameter.



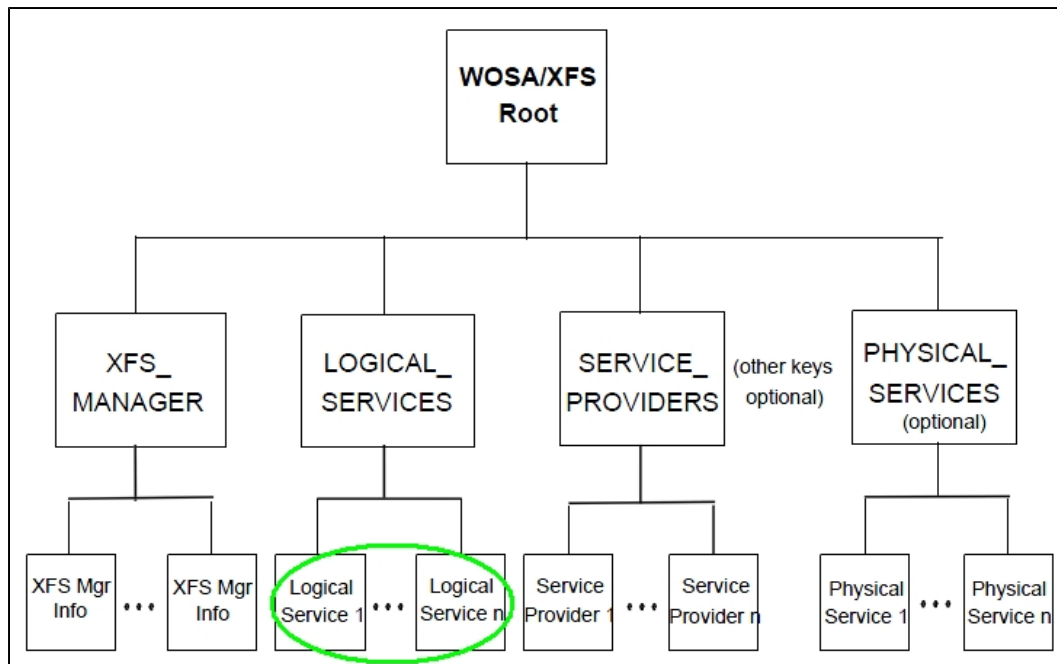
The image shows a Windows-style configuration window titled "EventATM". The window has a blue title bar with standard minimize, maximize, and close buttons. The main area is light gray and contains several input fields and a button. On the right side, there is text indicating the software version and manufacturer. The "Logical Service (IDC)" field is highlighted with a black oval.

Field	Value
ATM ID :	386
Logical Service (IDC) :	IDCardUnit1
Logical Service (CDM) :	CurrencyDispenser1
Connection to "ATM-Intellect Pro" :	
IP address :	127 . 0 . 0 . 1
TCP port :	8888

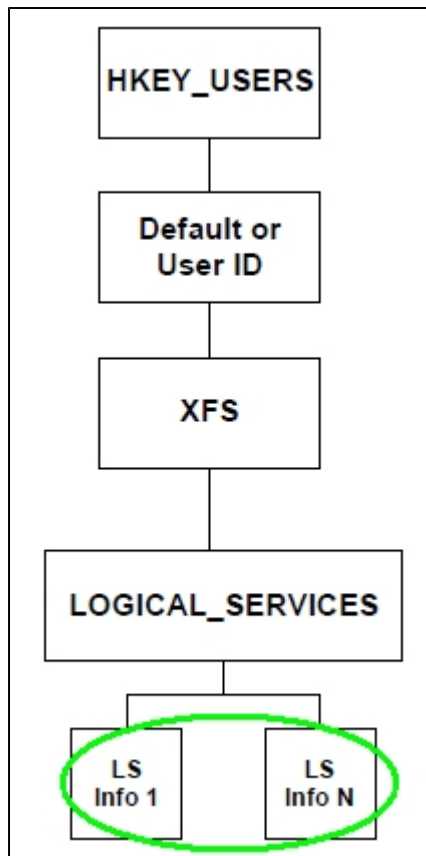
EventATM (c)
Version 7.0.523
"AxxonSoft"

Save

This setting can assume different values for different ATM types. In accordance with the XFS specification, this value is stored in the system registry. For earlier versions of XFS, this value is stored in the registry key HKEY_CLASSES_ROOT\WOSA\XFS_ROOT\LOGICAL_SERVICES\Logical Service.



For later versions of XFS, this value is stored in the registry key HKEY_USERS\DEFAULT\XFS\LOGICAL_SERVICES\LS.



The LOGICAL_SERVICES hive contains keys for each service provider (card reader, PIN entry pad, receipt printer, etc.).

```
[HKEY_USERS\DEFAULT\XFS\LOGICAL_SERVICES\MyCurrencyDispenser]
"class"="CDM"
"provider"="CDM"

[HKEY_USERS\DEFAULT\XFS\LOGICAL_SERVICES\MyCardReader]
"class"="IDC"
"provider"="IDC"

[HKEY_USERS\DEFAULT\XFS\LOGICAL_SERVICES\MyJournalPrinter]
"class"="PTR"
"provider"="JPTR"

[HKEY_USERS\DEFAULT\XFS\LOGICAL_SERVICES\MyPassbookPrinter]
"class"="PTR"
"provider"="PPTR"

[HKEY_USERS\DEFAULT\XFS\LOGICAL_SERVICES\MyPinpad]
"class"="PIN"
"provider"="PIN"

[HKEY_USERS\DEFAULT\XFS\LOGICAL_SERVICES\MyReceiptPrinter]
"class"="PTR"
"provider"="RPTR"

[HKEY_USERS\DEFAULT\XFS\LOGICAL_SERVICES\MyStatementPrinter]
"class"="PTR"
"provider"="SPTR"
```

What we are interested in is the logical name of the card reader service provider ("class" = "IDC"). In the example given in the figure, the logical name is "MyCardReader". This is the value that should be indicated in ATM Event Capture.

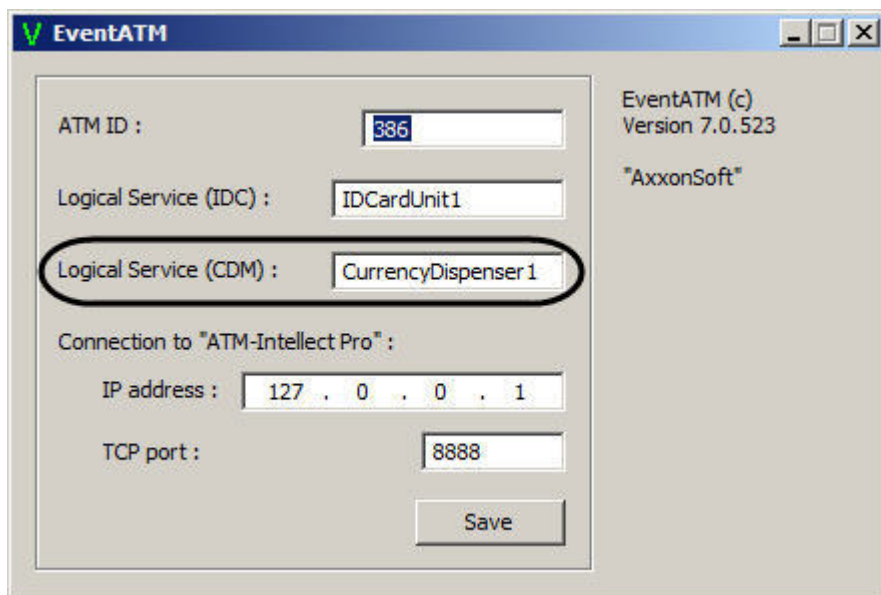
Logical name of the service provider of card-reader by default is:

- For ATMs made by NCR, "IDCardUnit1".
- For ATMs made by Wincor, "IDC30" ("IDC", in older versions).
- For ATMs made by Diebold, «DBD_MotoCardRdr».

After ATM Event Capture intercepts an event from the ATM card reader, it sends information about this event to ATM Intellect Pro. ATM Intellect Pro overlays captions on the image. To do so, configure the connection to the ATM-Intellect Pro.

Configuring the connection to the dispenser service provider

To configure connection to the service provider of the dispenser (CDM), specify the value of **Logical Service (CDM)** parameter.



The way of identifying its value is similar to service provider of card reader except that instead of searching "class"="IDC" parameter in the registry one should find the "class"="CDM" value (see [Configuring the connection to the card reader service provider](#)).

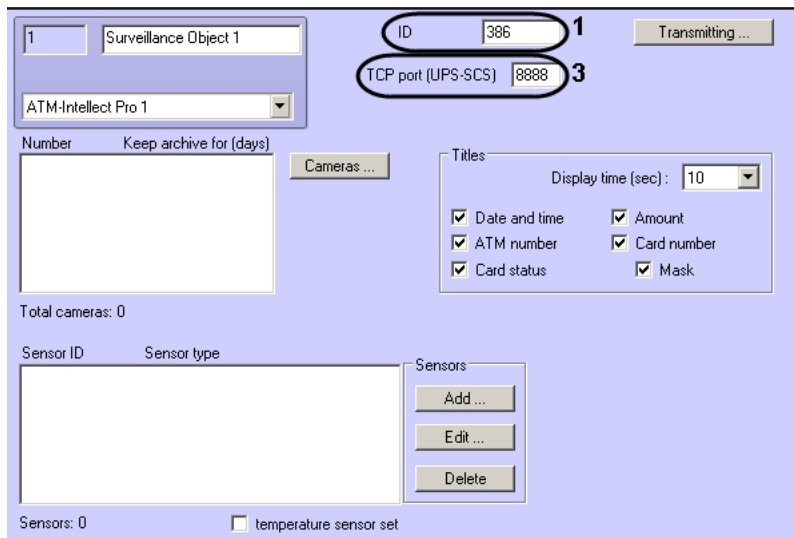
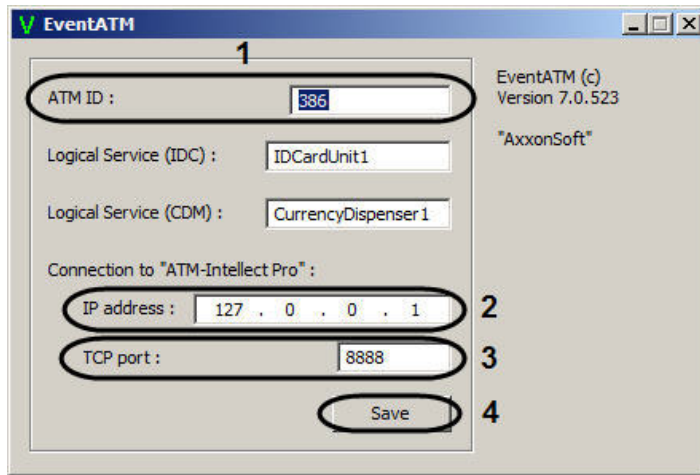
Logical name of the service provider of dispenser by default is:

- For "NCR" ATMs, «CurrencyDispenser1».
- For "Wincor" ATMs, «CDM30».
- For "Diebold" ATMs, «DBD_AdvFuncDisp».

Configuring the connection to the ATM-Intellect Pro

To configure the connection to the ATM-Intellect Pro, do the following:

1. In the **ATM ID** field specify identification number of the ATM. This value should match the "ID" value in the settings of ATM Intellect Pro (1).



2. In the **IP address** specify the IP address of the computer on which Intellect and ATM Intellect Pro are installed (2). If they are installed on the ATM's control computer, you can leave the default value unchanged (127.0.0.1).
3. In the **TCP port** field specify the TCP port on which ATM Intellect Pro expects connections from ATM Event Capture. This value should match the **TCP port (UPS-SCS)** value in the settings of ATM Intellect Pro (3).
4. To save settings, click the **Save** button (4).

Configuring the connection to the ATM-Intellect Pro is completed.

Configuring card number masking

By default ATM Event Capture automatically masks the card number when displaying captions on a video image so that only 6 digits in the beginning and 4 digits in the end of the number are visible. To change the mask parameters use a "Mask" key in the HKLM\Software\ITV\EventATM registry branch. The key value is set as follows:

0 – if no mask to be applied to the card number;

1-6 – number of digits in the beginning of the card number which are not masked.



Note.

To use the ATM Event Capture mask deselect the **Mask** checkbox in the **Surveillance object object** settings panel. The object is part of the ATM-Intellect Pro software.

Setting up the card number receiving from transaction log

By default, *ATM Event Capture* receives the card number directly from the card reader. However, direct card reading can cause malfunction of the ATM software due to the fact that the ATM software works with the card reader directly (without XFS) or that service provider of card reader does not support simultaneous operation of several applications with a device. Therefore, it is possible to get a client's card number from the ATM transaction log, not by a direct reading of card inserted into the card reader.

Setting up the card number receiving is performed through the following registry keys:

Key	Description	Default value	Range
HKEY_LOCAL_MACHINE\SOFTWARE\ITV\EventATM\ JrnMode	The key defines the mode of operating the journal	0	0 – card number is read from the card reader 1 – card number is read from the ATM journal through the Protopas software (Wincor)

HKEY_LOCAL_MACHINE\ SOFTWARE\ITV\EventATM\ JrnPath	Defines the path to the ATM's journal	-	If JrnMode = 1, then JrnPath = C:\JOURNAL\
HKEY_LOCAL_MACHINE\ SOFTWARE\ITV\EventATM\ JrnTrack2Substring	Substring for searching the card number	-	If JrnMode = 1, then JrnTrack2Substring = (TRACK 2 DATA):

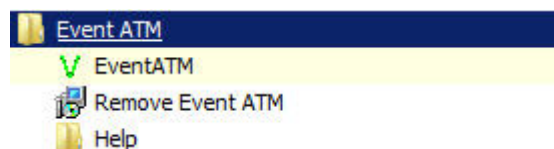
ATM Event Capture operation

ATM Event Capture principle of operation

After the computer is restarted, ATM Event Capture is started automatically as a system service.

Name	Description	Status	Startup T...	Log On As
IP Helper	Provides tunnel connectivity using IPv6 transition...	Started	Automatic	Local System
IPsec Policy Agent	Internet Protocol security (IPsec) supports network...		Manual	Network Service
ITV EventATM	EventATM service allows to catch ATM events	Started	Automatic	.IntellectServiceUser
KtmRm for Distributed Transaction Coordinator	Coordinates transactions between the Distributed...		Manual	Network Service

On computers running on Windows XP, the program icon also appears in the taskbar notification area (system tray) and ATM Event Capture settings become available for editing (by default, the ITV EventATM service is allowed desktop access). On computers running on Windows 7, the program icon does not appear in the taskbar notification area. To change program settings, first stop the ITV EventATM service and then start the application ATM Event Capture, by selecting **Start>All Programs>EventATM>EventATM**.



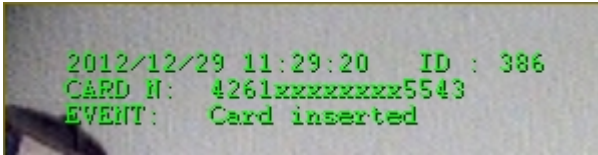
Capturing events

ATM Event Capture captures the following card reader events:

1. Card inserted;
2. Card taken by client;
3. Card captured by ATM;
4. Cash delivery;
5. Client took out the cash;
6. ATM took out the cash;
7. Safe door opened;
8. Safe door closed.

The following information is overlaid on the image, as captions:

1. date and time
2. ATM ID
3. number of client card
4. event

A photograph of an ATM screen displaying transaction information in green text on a dark background. The text is as follows:
2012/12/29 11:29:20 ID : 386
CARD N: 4261xxxxxxxx5543
EVENT: Card inserted

If you do not want to overlay captions for a certain event, do the following on the computer on which ATM Intellect Pro is installed: select **Start>All Programs>Intellect>ATM Intellect Pro 7.0>ATM Event Editor**. In the window that appears, edit the corresponding entry by clearing the corresponding check box in the "Titles" column. Then quit and start ATM Intellect Pro again.

ATM Event Editor 1.0

#	Nº	Event ID	Description	Titles
1		505	Card inserted	✓
2		501	Query to Bank	✓
3		524	Query to Bank	✓
4		506	Withdraw card (by CV command)	✓
5		503	Card shown to client	✓
6		502	Card's withdrawal by client	✓
7		504	Card's withdrawal by ATM	✓
8		530	Bills selected from cassette	✓
9		301	Cash delivery	✓
10		510	Client took out the cash	✓
11		513	ATM took out the cash	✓
12		520	ATM's state: OFFLINE	✓
13		521	ATM's state: ONLINE	✓
14		522	ATM's state: IN SERVICE	✓
15		523	ATM's state: OUT OF SERVICE	✓
16		525	Vault's door opened	✓
17		526	Vault's door closed	✓
18		000	Query to Bank	✓
19		550	Cash transaction	✓
20		551	Transaction prop. checking	✓
21		552	Cash reception finished	✓
22		553	Cash transaction finished	✓
23		512	Bills shown to client	✓
24		531	BNA's shutter opened	✓
25		532	BNA's shutter closed	✓
26		533	ATM's door opened	✓
27		534	ATM's door closed	✓
28		540	Card readed	✓
29		541	Duet Card	✓
30		542	Duet Client Card	✓
31		543	Duet Storn	✓
32		544	Transaction fault (Duet)	✓
33		545	Operation is selected (Duet)	✓
34		546	End of operation (Duet)	✓
35		547	Supervisor mode	✓
36		548	Initialisation	✓
37		549	Update SW	✓

Export into file Add Edit Delete

ATM Event Capture event log

If errors arise in use of ATM Event Capture, it may become necessary to view its event log. To enable logging in ATM Event Capture, change the registry key for the following setting from "0" to "1": HKLM\SOFTWARE\ITV\EventATM\LogEnable. After you quit and start ATM Event Capture again, the file EventATM.log appears in the installation folder.

Name	Type	Data
ab (Default)	REG_SZ	(value not set)
ab CDM	REG_SZ	CurrencyDispenser 1
ab IDC	REG_SZ	IDCardUnit1
ab InstallPath	REG_SZ	C:\Program Files\EventATM\
ab IpAddress	REG_SZ	127.0.0.1
ab JmMode	REG_SZ	0
ab JmPath	REG_SZ	C:\JOURNAL\
ab JmTrack2Substring	REG_SZ	(TRACK 2 DATA):
ab LogEnable	REG_SZ	1
ab TcpPort	REG_SZ	8888
ab TID	REG_SZ	386