



## Administrator's Guide

Last update 10/11/2022

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## 1 List of abbreviations used

Workstation – automated workstation.

Workstation TC – automated workstation at the technical center.

## 2 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. Hardware and software requirements.
3. Installation sequence for *ATM-Intellect*.
4. Configuring procedure for *ATM-Intellect*.

## 3 ATM-Intellect general description

### 3.1 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:

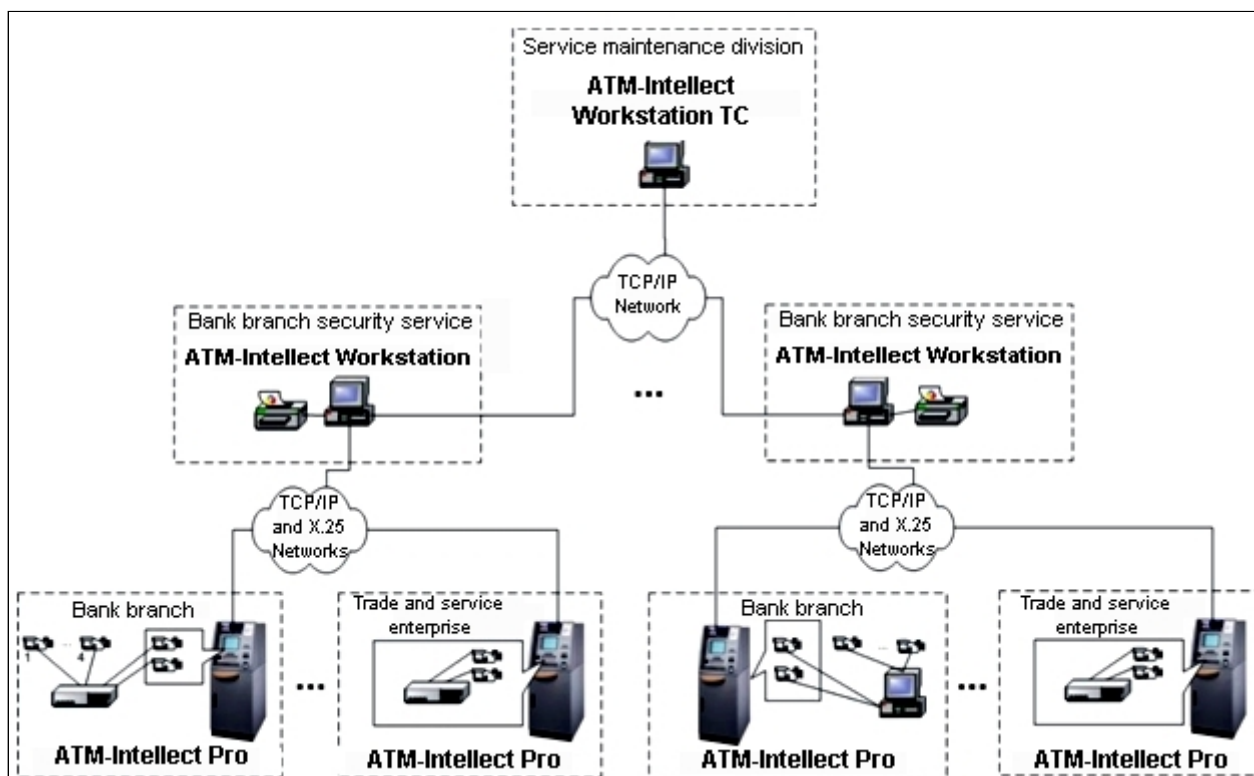
1. reduction of the bank's financial losses related to fraud while obtaining cash from an ATM;
2. reduction of the bank's financial losses related to the acts of vandalism against the ATMs.

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

### 3.2 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 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 TCP / IP or X.25 data network protocols 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 are 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.

**Note.**

If there is no activation key, then *ATM-Intellect* software operates in the demo mode for 2 months from 8:00 am to 12:00 am.

### 3.3 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.

### 3.4 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.

### 3.5 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*.

## 3.6 Additional workplace 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 workplace*, install *Intellect* in **RAW** mode. *Intellect* distributed system configuration is not required for *Additional workplace* operation.

The **Additional workplace** object is to be specified in the "intellect.sec" license key that is located on *ATM-Intellect Workstation* in order to allow using the *Additional workplace* software.

## 3.7 ATM-Intellect restrictions

In the *ATM-Intellect* software package restrictions are imposed when creating 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 30.
3. Maximal number of cameras which a **Surveillance object** can handle is 64.

## 4 Hardware and software requirements

### On the page:

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

### 4.1 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 7 or latest OS, you must disable UAC. In Windows 8, 8.1 and 10 it is necessary to configure security policies in order to entirely disable UAC (configuring security policies is described in the [Intellect: Administrator's Guide](#)).

### 4.2 Hardware requirements

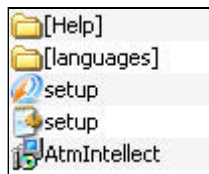
*ATM-Intellect* has the following minimum PC hardware requirements:

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

## 5 Installing ATM-Intellect

### 5.1 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.

### 5.2 Preparing to install

For *ATM Intellect Workstation*, *ATM Intellect Workstation TC*, and *Additional workplace* 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.**
4. **Additional workplace** (this object is to be added to the license key on the *ATM Intellect Workstation*).

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 2014 Express is installed as well.

*ATM Intellect* software supports the following database servers:

1. MS SQL Server 2008 R2;
2. MS SQL Server 2012;
3. MS SQL Server 2014.

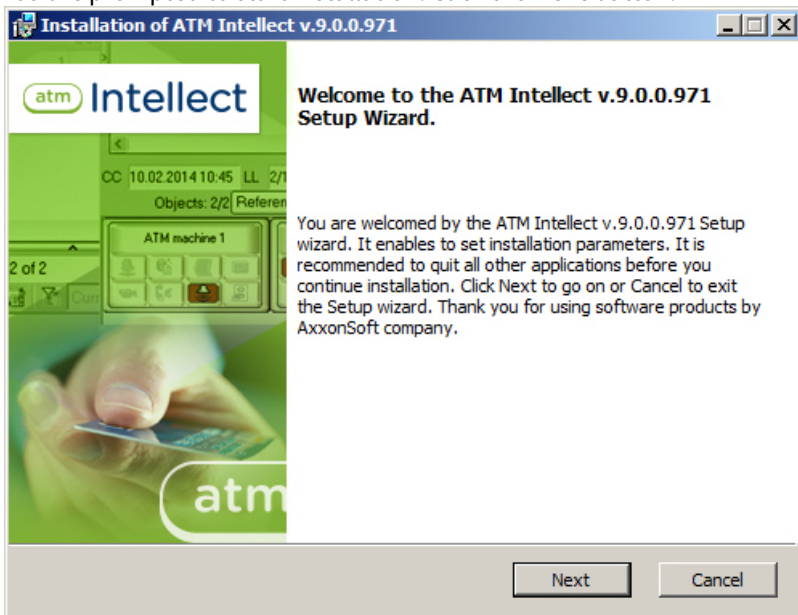
### 5.3 Installation steps for ATM-Intellect Workstation

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

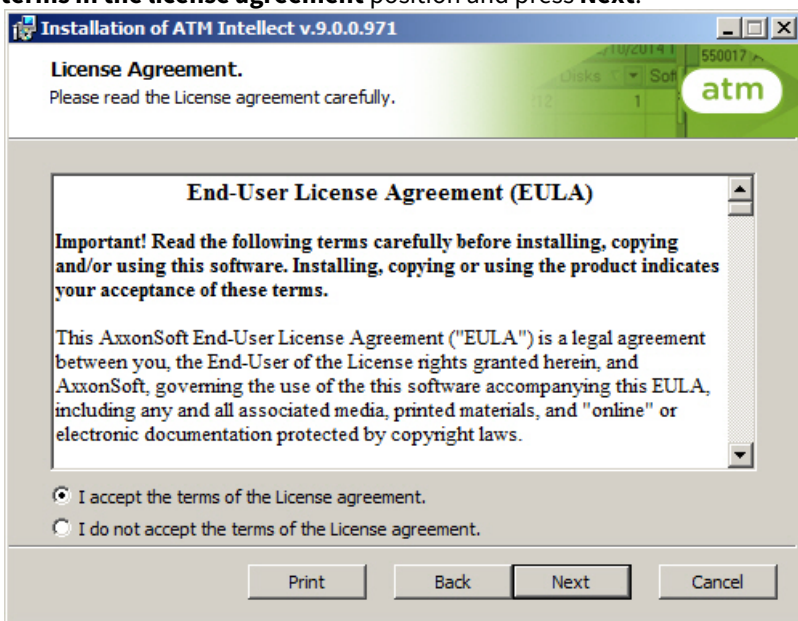
1. Start the file setup.exe from the installation kit. The installation wizard informs that the installation process has begun.



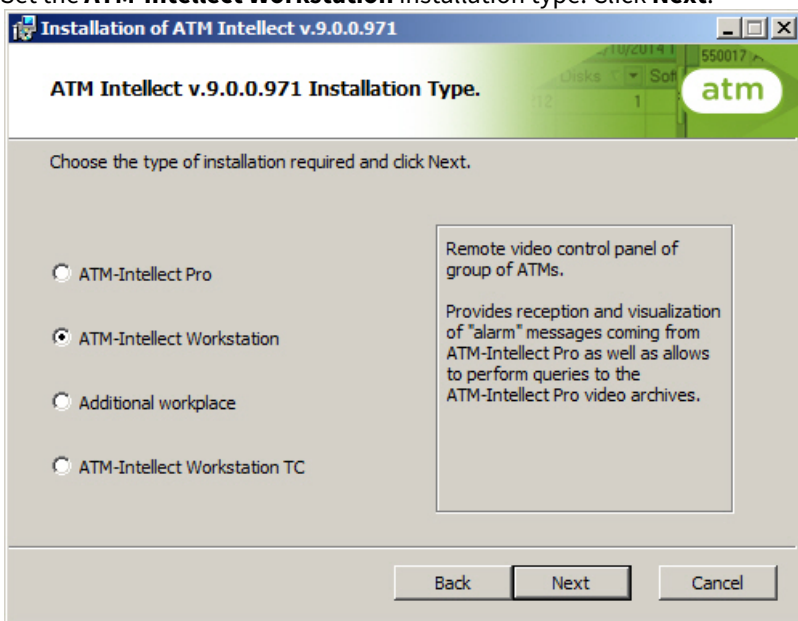
2. You are prompted to start installation. Click the **Next** button.



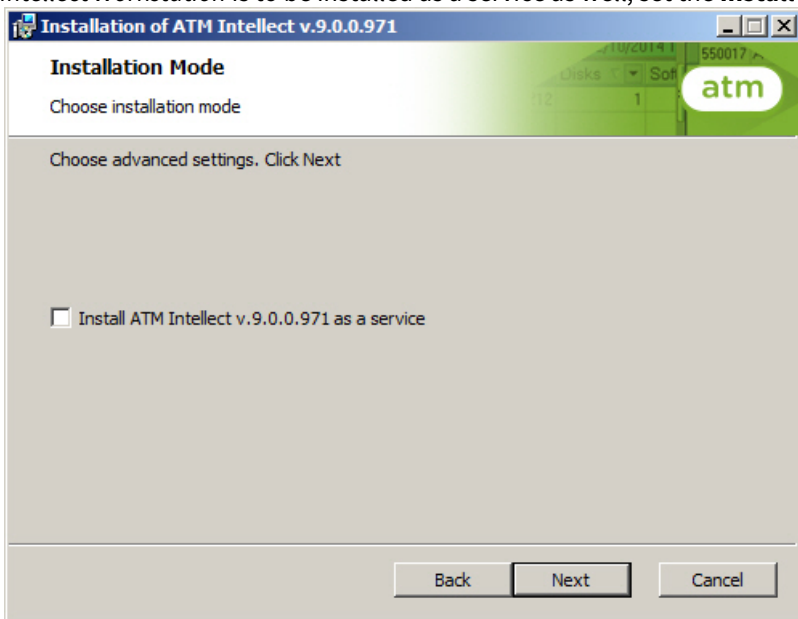
3. In the **License agreement** window read the terms of the End-User License Agreement . Set the switch into the **I accept the terms in the license agreement** position and press **Next**.



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



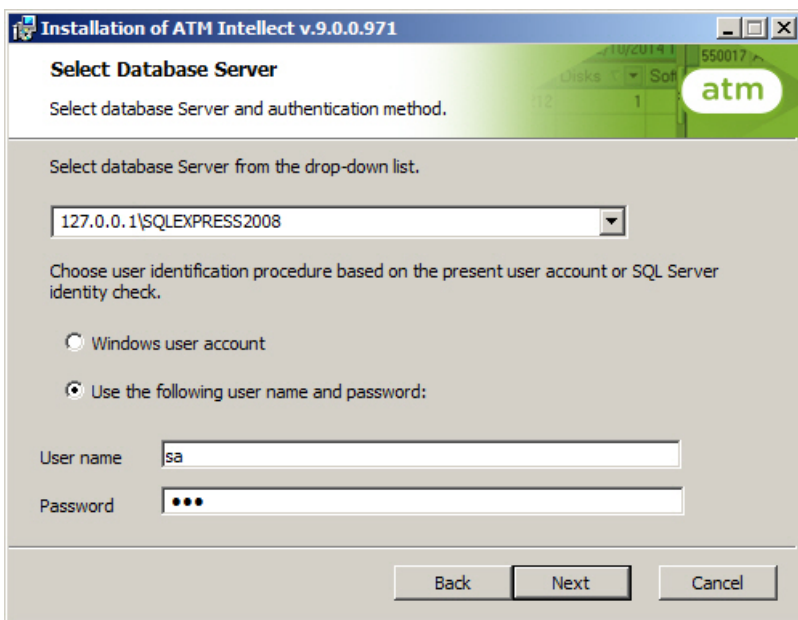
5. A dialog box to for choosing installation type will be displayed. If *Intellect* software is installed as a service and *ATM-Intellect Workstation* is to be installed as a service as well, set the **Install ATM Intellect as a service** checkbox. Click **Next**.



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

**Note.**

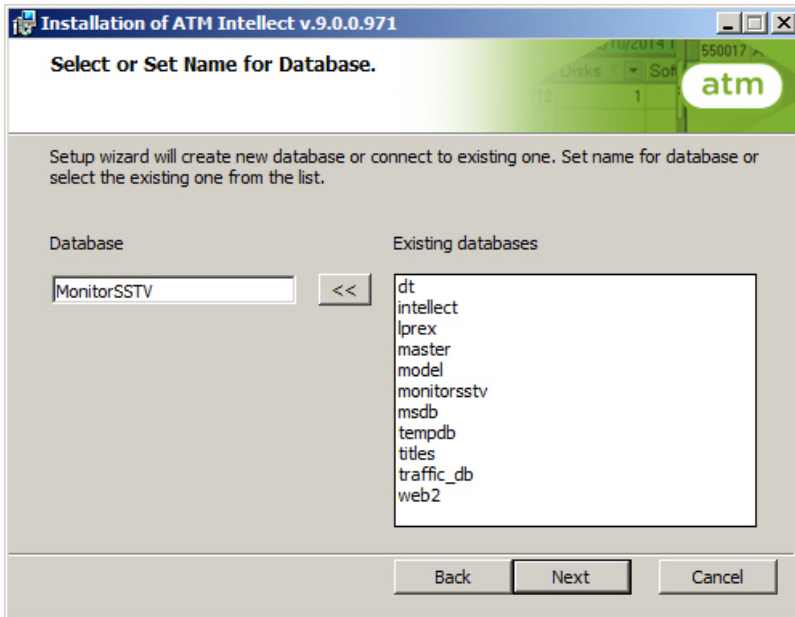
In the **Select database Server from the drop-down list** field specify the "127.0.0.1" value instead of computer name or "(local)" value, e.g. "127.0.0.1\SQLEXPRESS". Otherwise ATM-Intellect Workstation will lose connection with its local database when the network cable is disconnected.



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

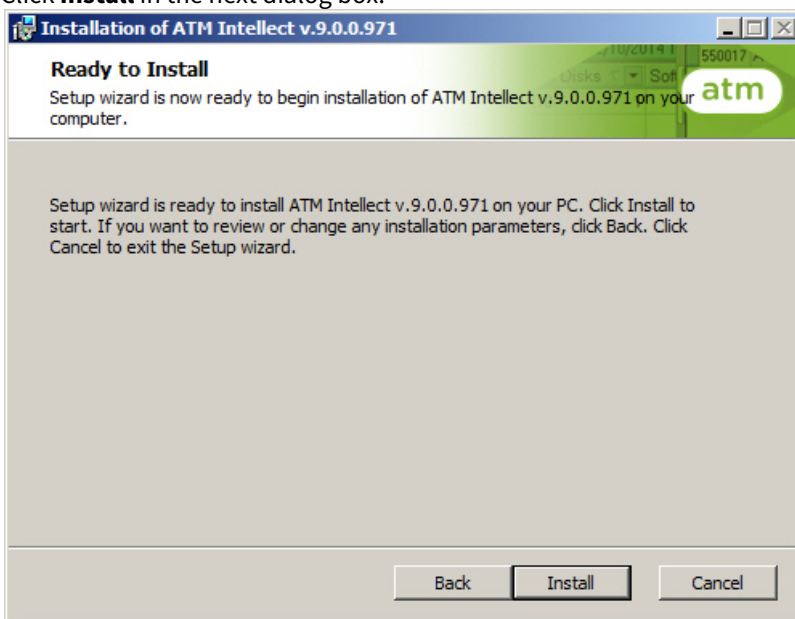
**Note.**

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

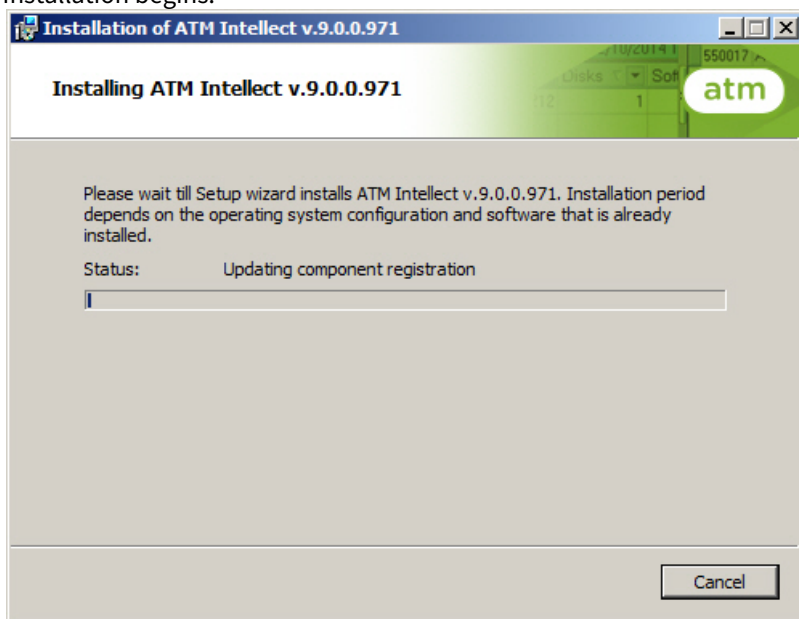


Click **Next**.

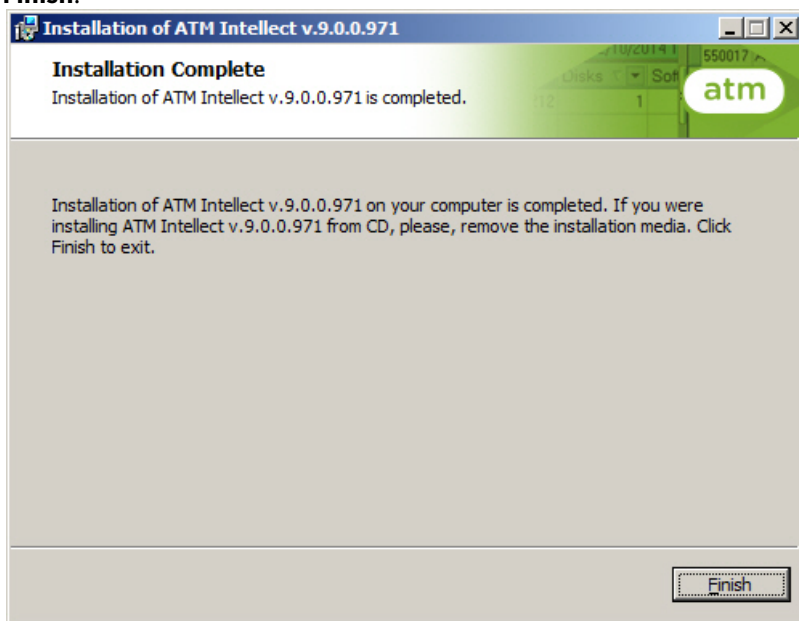
8. Click **Install** in the next dialog box.



9. Installation begins.



10. After the final installation tasks are completed, the wizard informs that the software has been successfully installed. Click **Finish**.

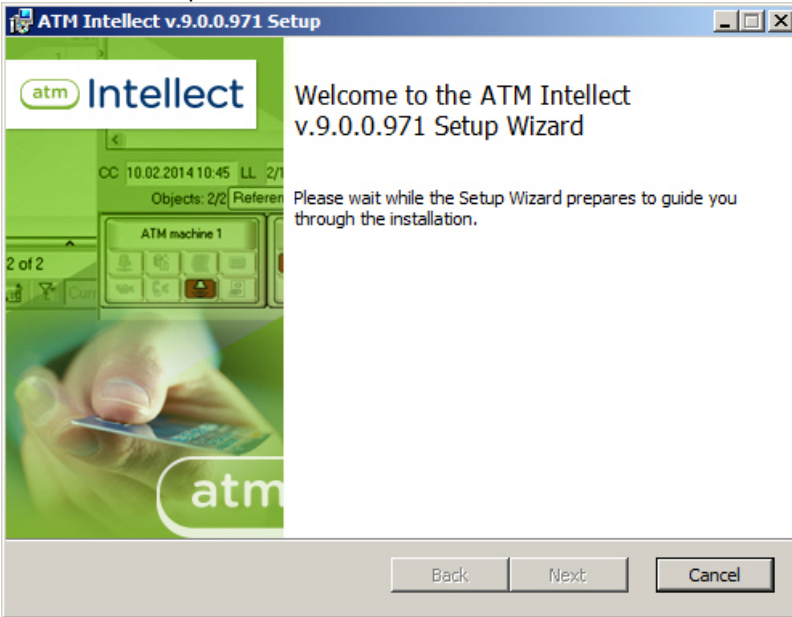


*ATM-Intellect Workstation* installation is completed.

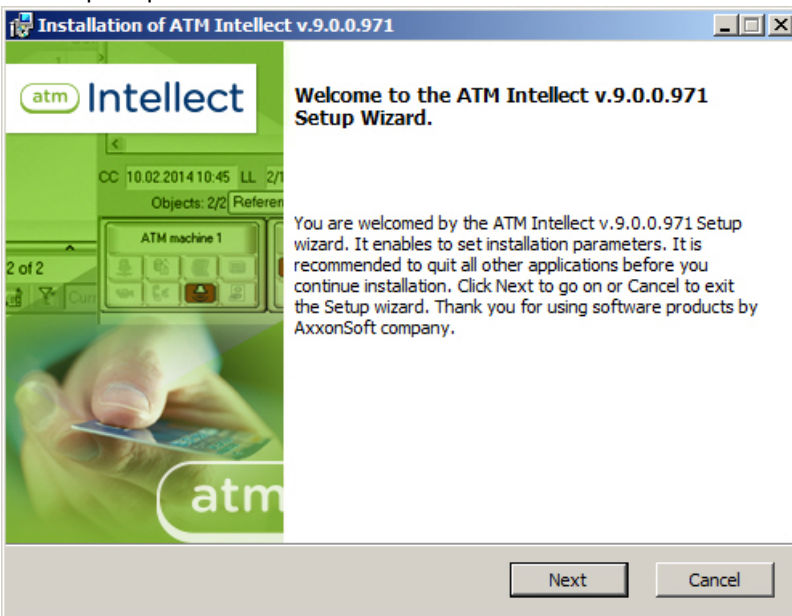
## 5.4 Installation steps for ATM-Intellect Workstation TC

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

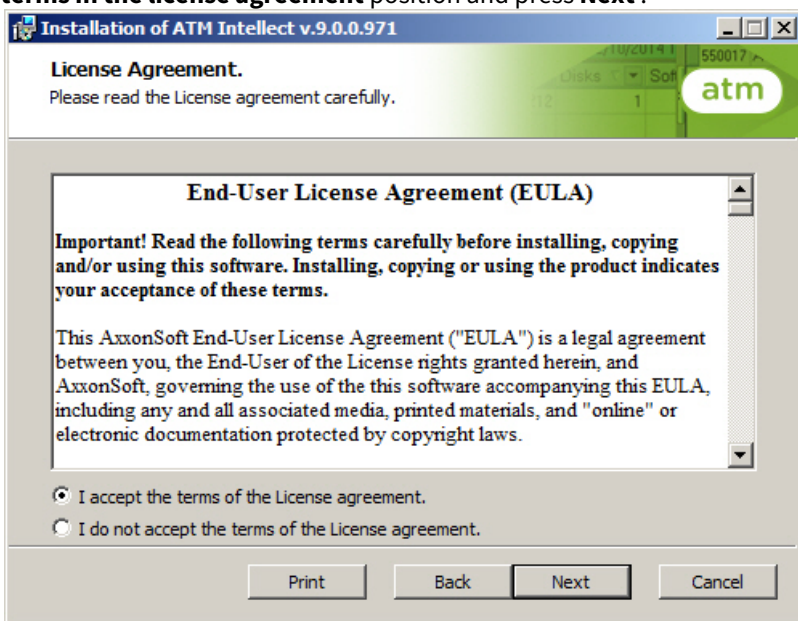
1. Start the file setup.exe from the installation kit. The installation wizard informs that the installation process has begun.



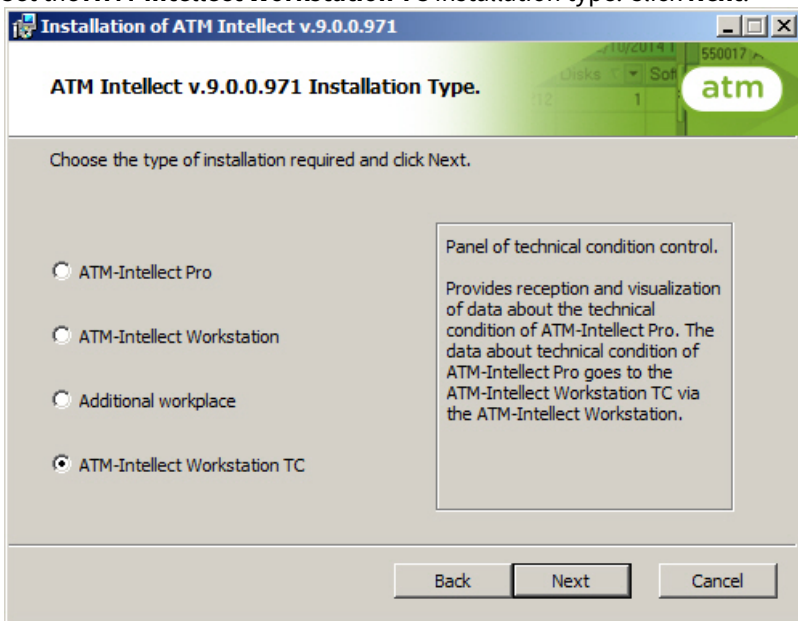
2. You are prompted to start installation. Click the **Next** button.



- 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** .

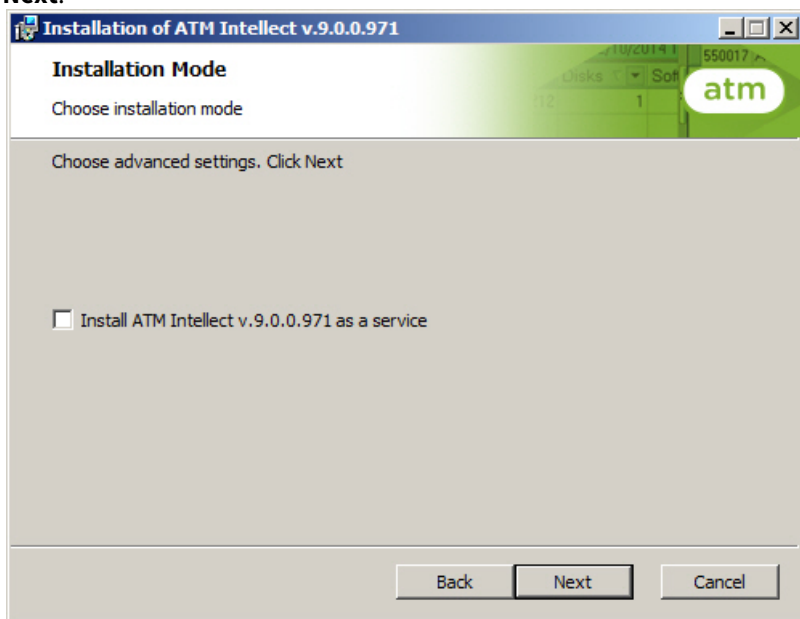


- Set the **ATM-Intellect Workstation TC** installation type. Click **Next**.



- A dialog box to for choosing installation type will be displayed. If *Intellect* software is installed as a service and *ATM-Intellect Workstation TC* is to be installed as a service as well, set the **Install ATM Intellect as a service** checkbox. Click

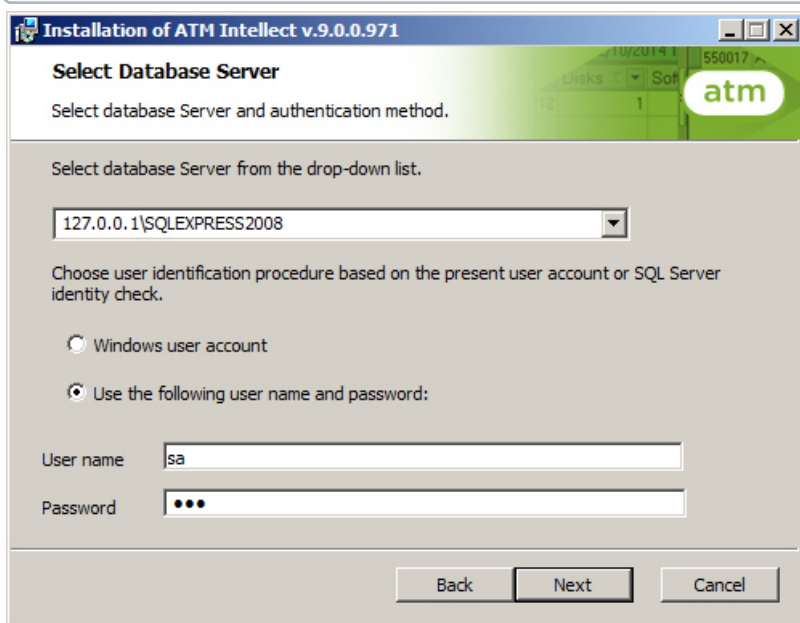
Next.



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

**Note.**

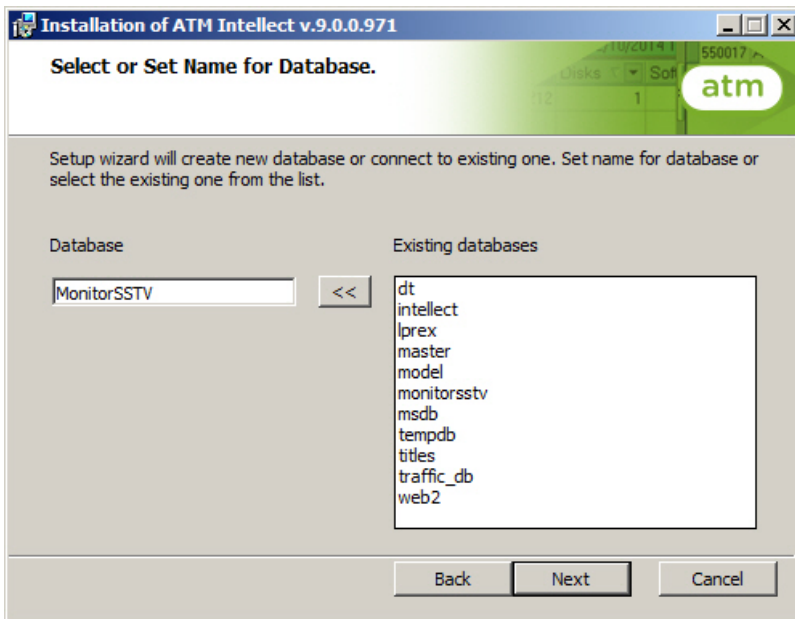
In the **Select database Server from the drop-down list** field specify the "127.0.0.1" value instead of computer name or "(local)" value, e.g. "127.0.0.1\SQLEXPRESS". Otherwise *ATM-Intellect Workstation TC* will lose connection with its local database when the network cable is disconnected.



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

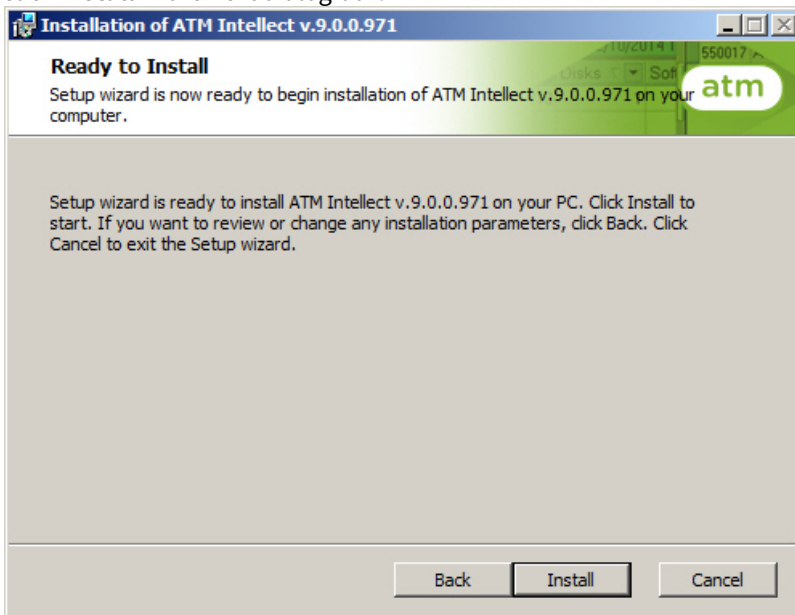
**Note.**

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

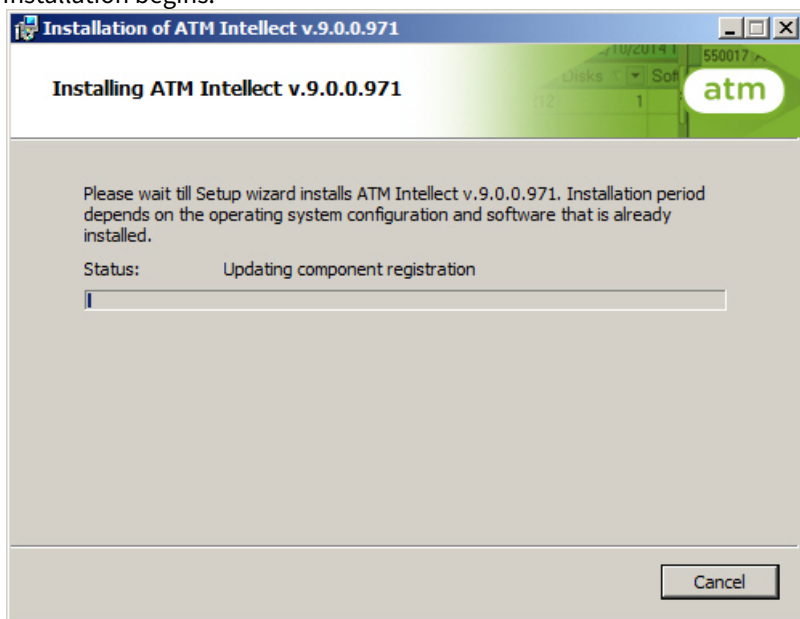


Click **Next**.

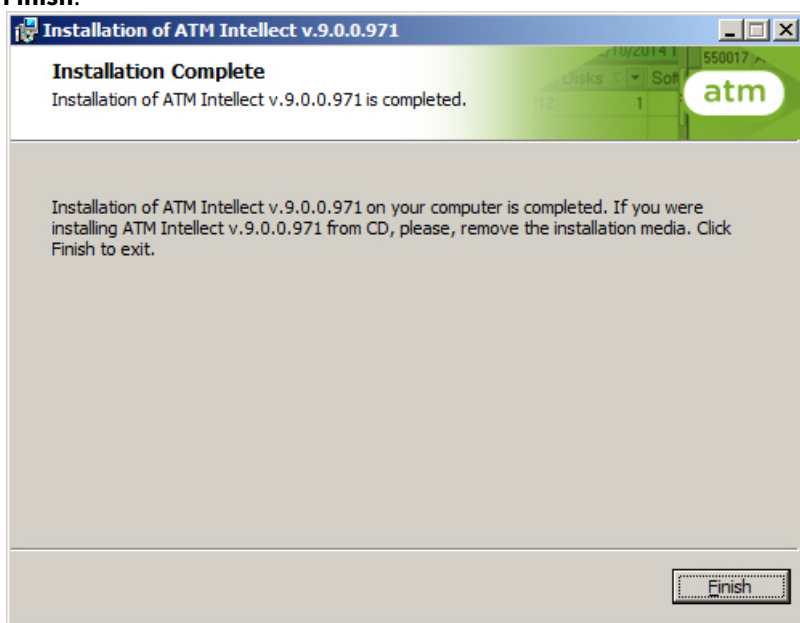
8. Click **Install** in the next dialog box.



9. Installation begins.



10. After the final installation tasks are completed the wizard informs that the software has been successfully installed. Click **Finish**.

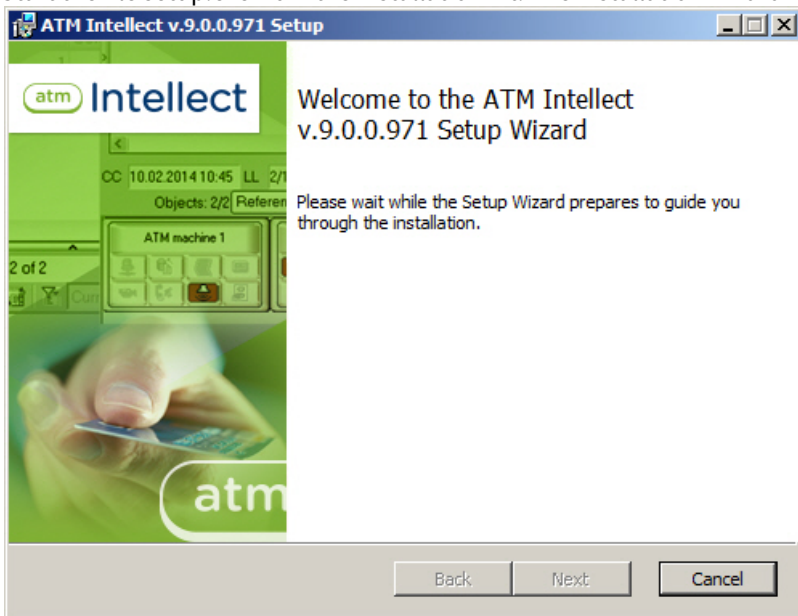


*ATM-Intellect Workstation TC* installation is completed.

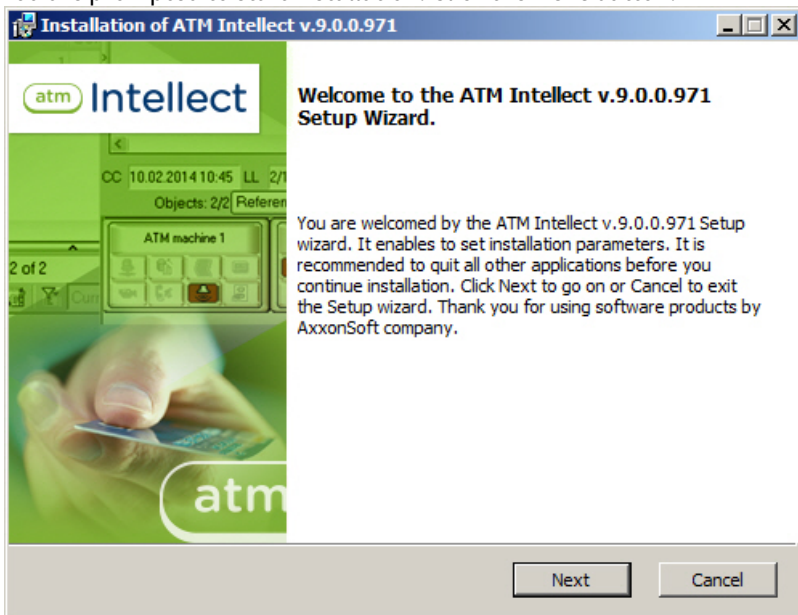
## 5.5 Installation steps for ATM-Intellect Pro

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

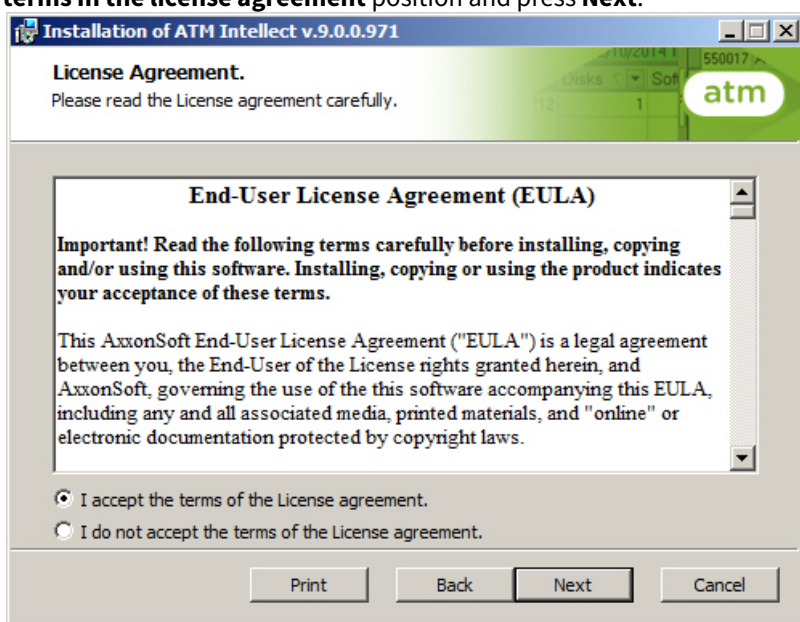
1. Start the file setup.exe from the installation kit. The installation wizard informs that the installation process has begun.



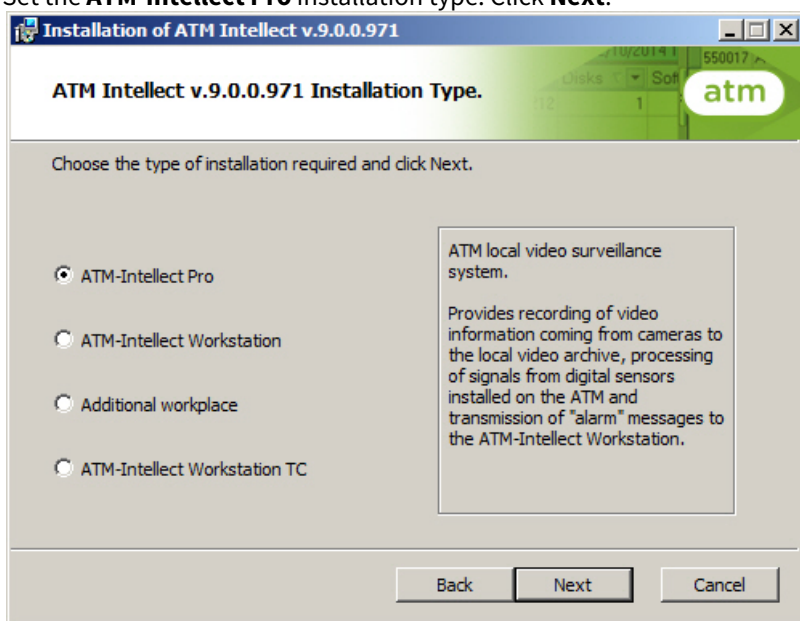
2. You are prompted to start installation. Click the **Next** button.



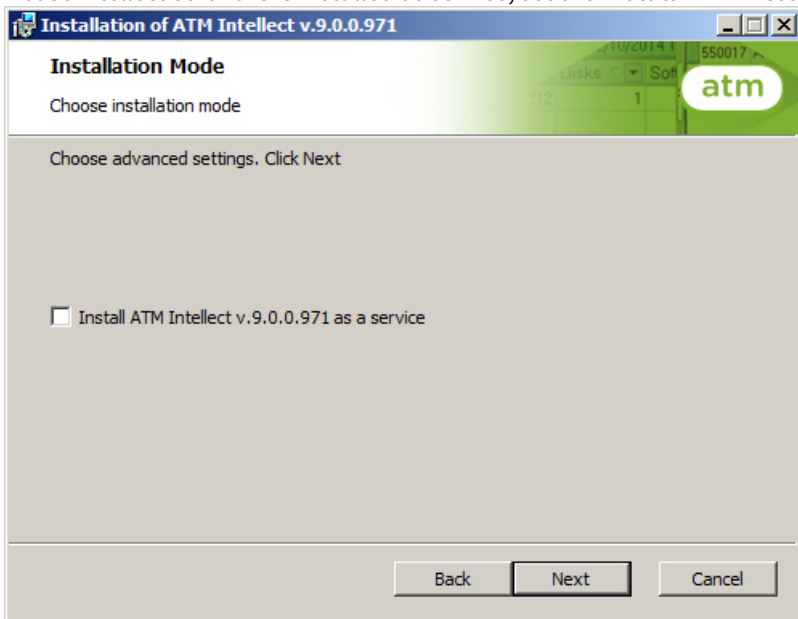
3. In the **License agreement** window read the terms of the End-User License Agreement. Set the switch into the **I accept the terms in the license agreement** position and press **Next**.



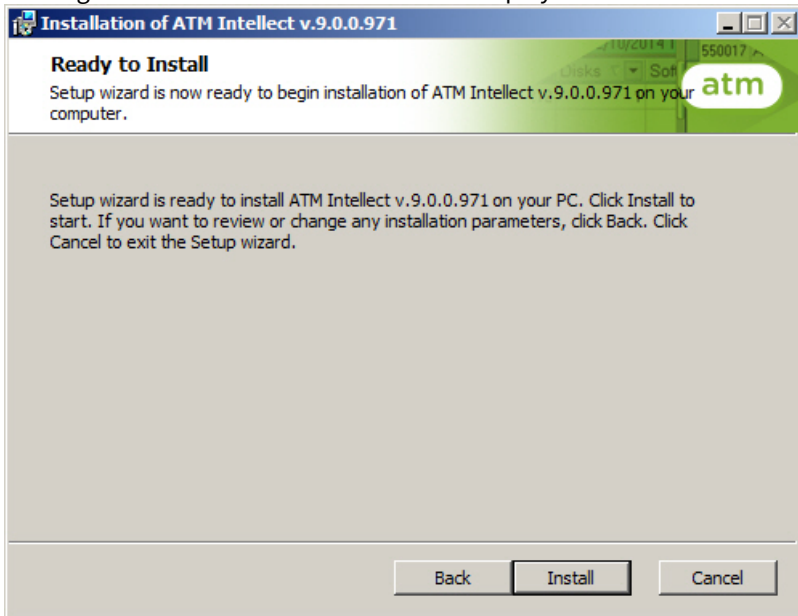
4. Set the **ATM-Intellect Pro** installation type. Click **Next**.



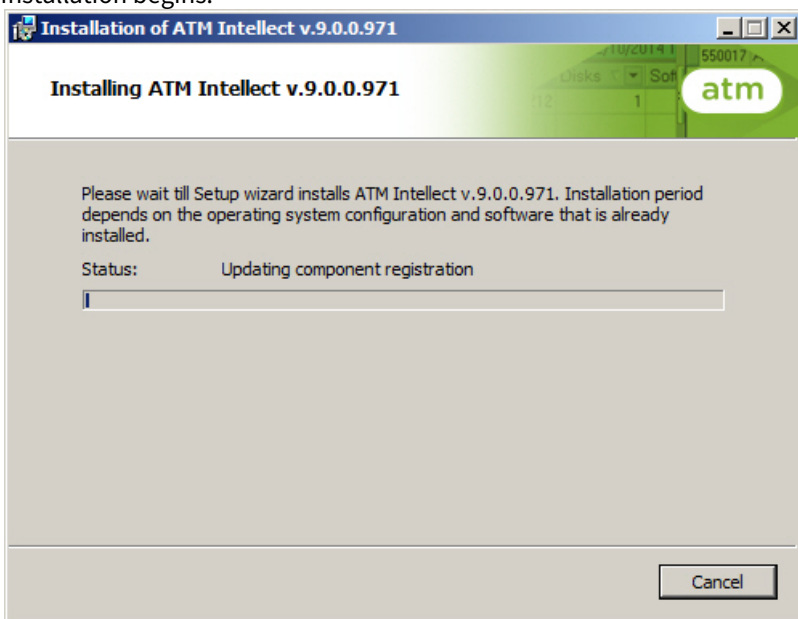
- 5. If base *Intellect* software is installed as service, set the **Install ATM-Intellect as a service** checkbox.



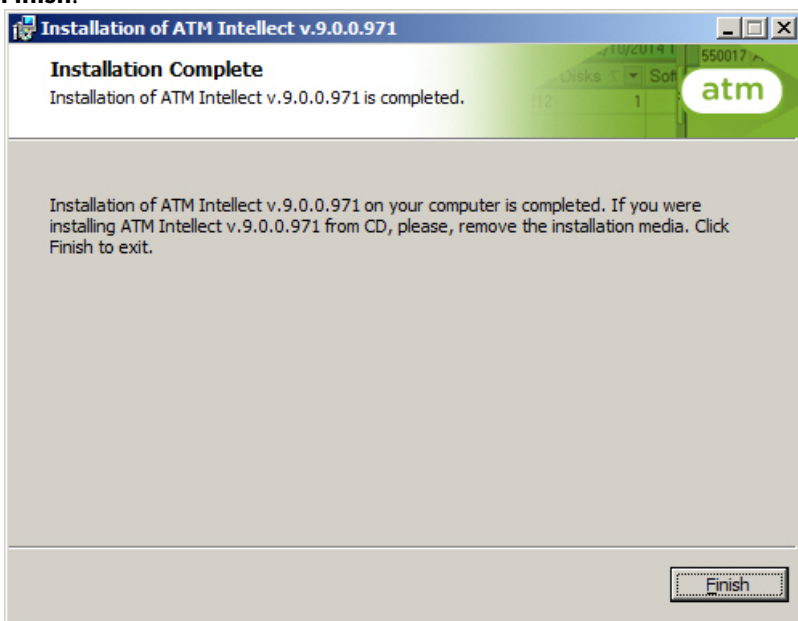
- 6. A dialog box to confirm installation will be displayed. Click **Install** to run installation process.



7. Installation begins.



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



*ATM-Intellect Pro* installation is completed.

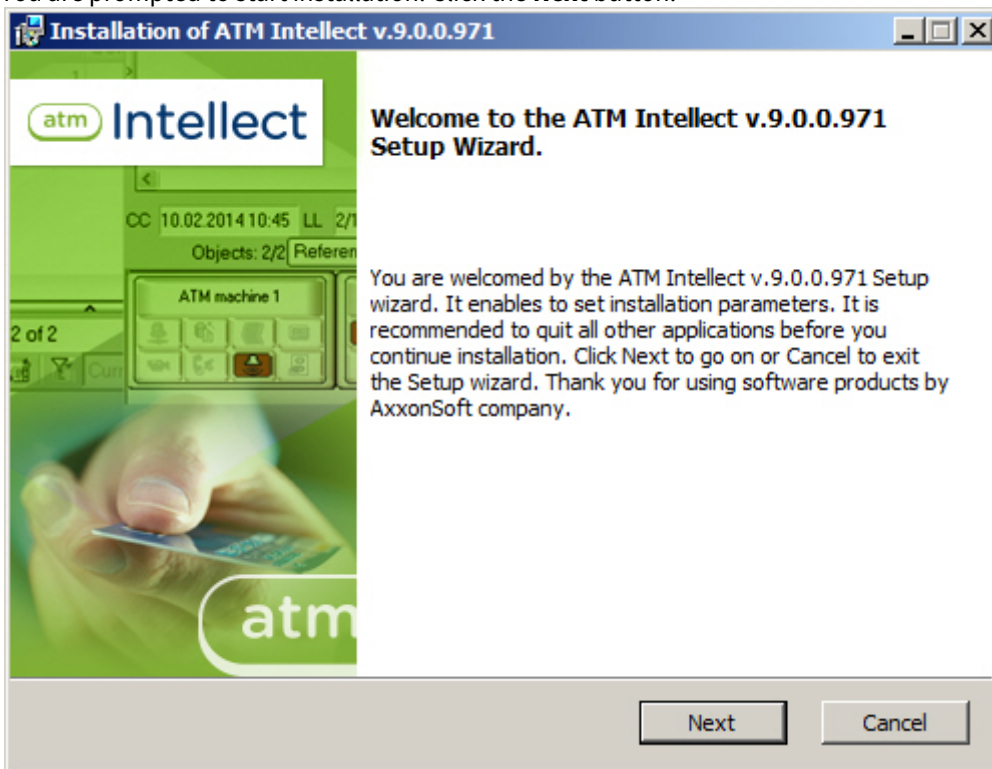
## 5.6 Installation steps for Additional workplace

To install *ATM Intellect* in the *Additional workplace* configuration, do the following:

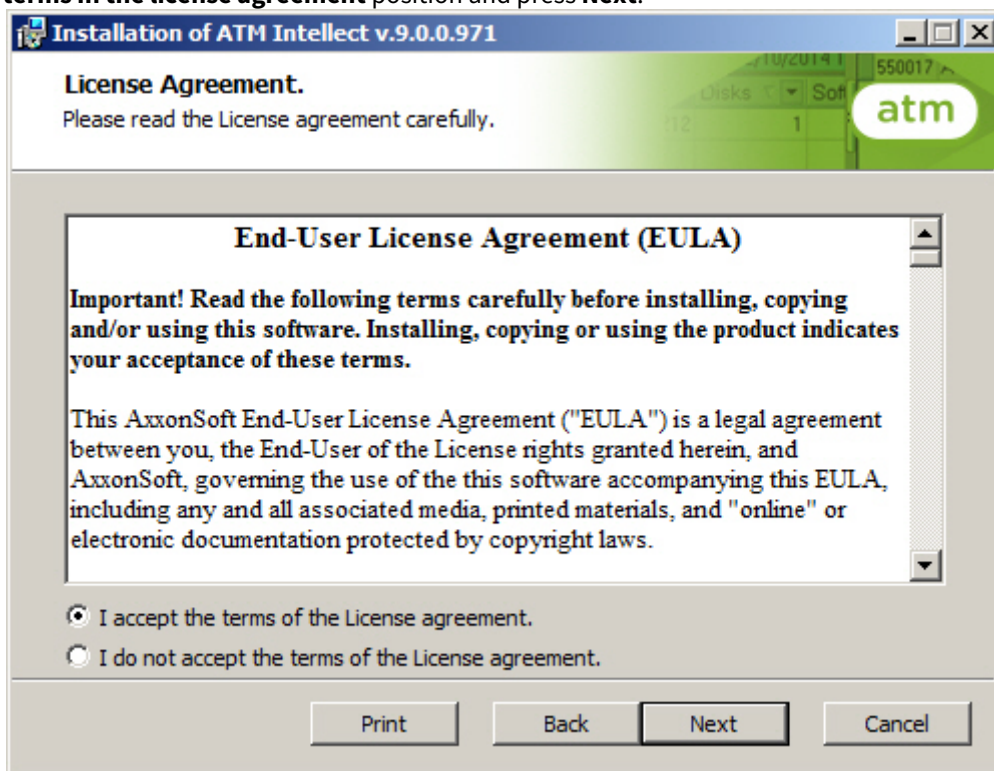
1. Start the file setup.exe from the installation kit. The installation wizard informs that the installation process has begun.



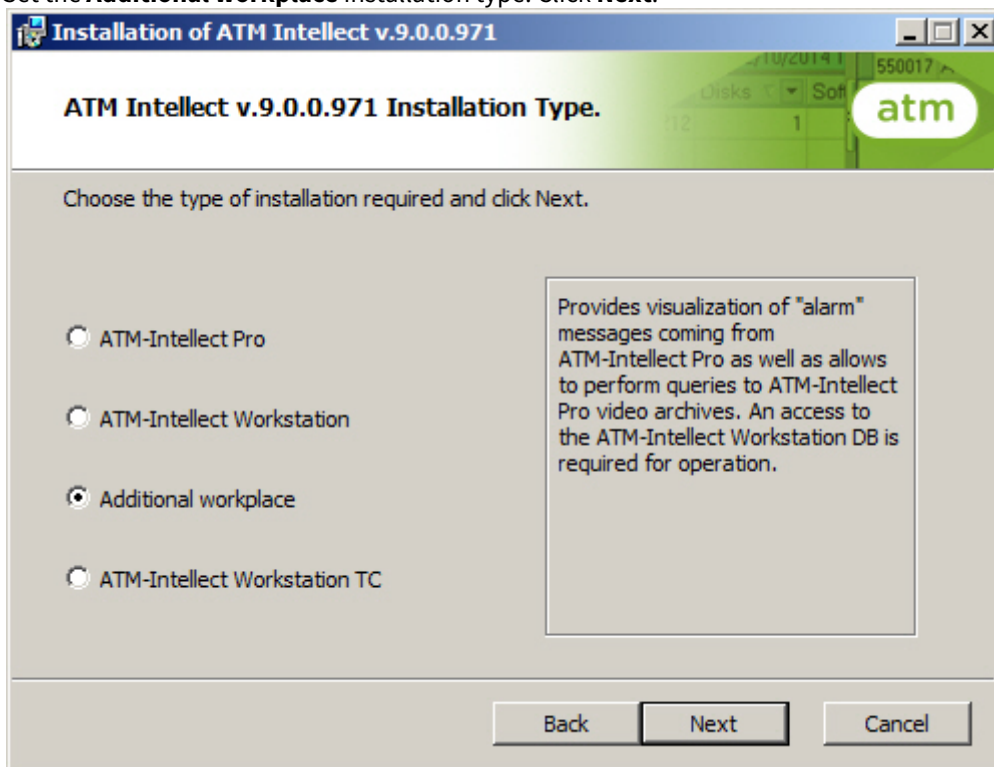
2. You are prompted to start installation. Click the **Next** button.



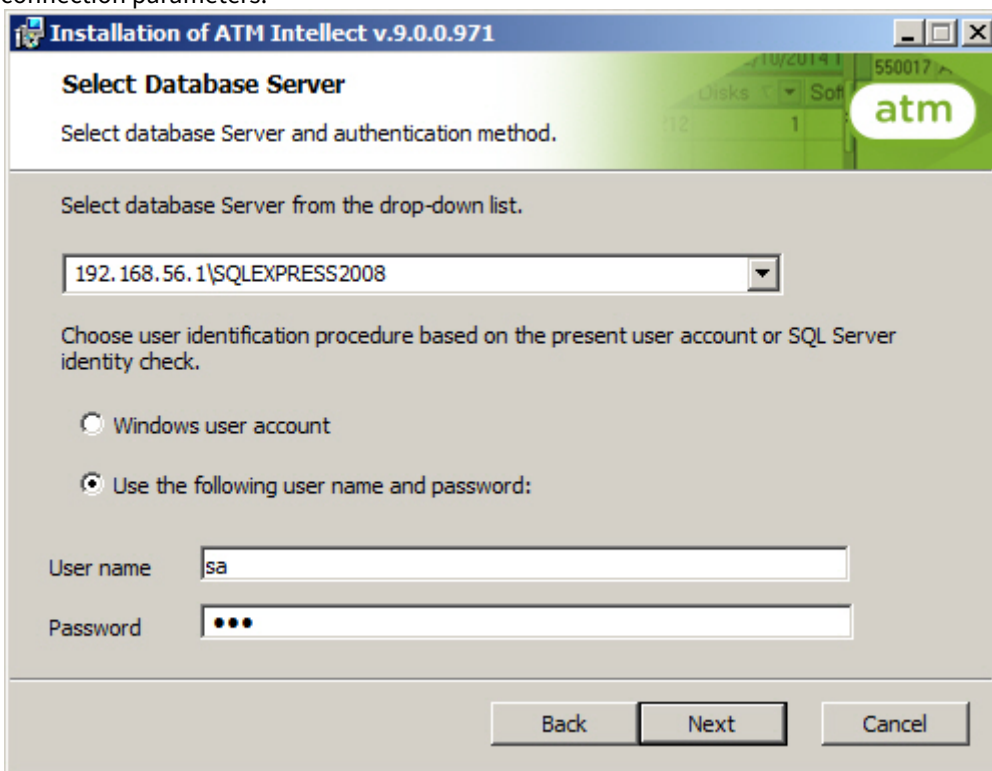
3. In the **License agreement** window read the terms of the End-User License Agreement . Set the switch into the **I accept the terms in the license agreement** position and press **Next**.



4. Set the **Additional workplace** installation type. Click **Next**.

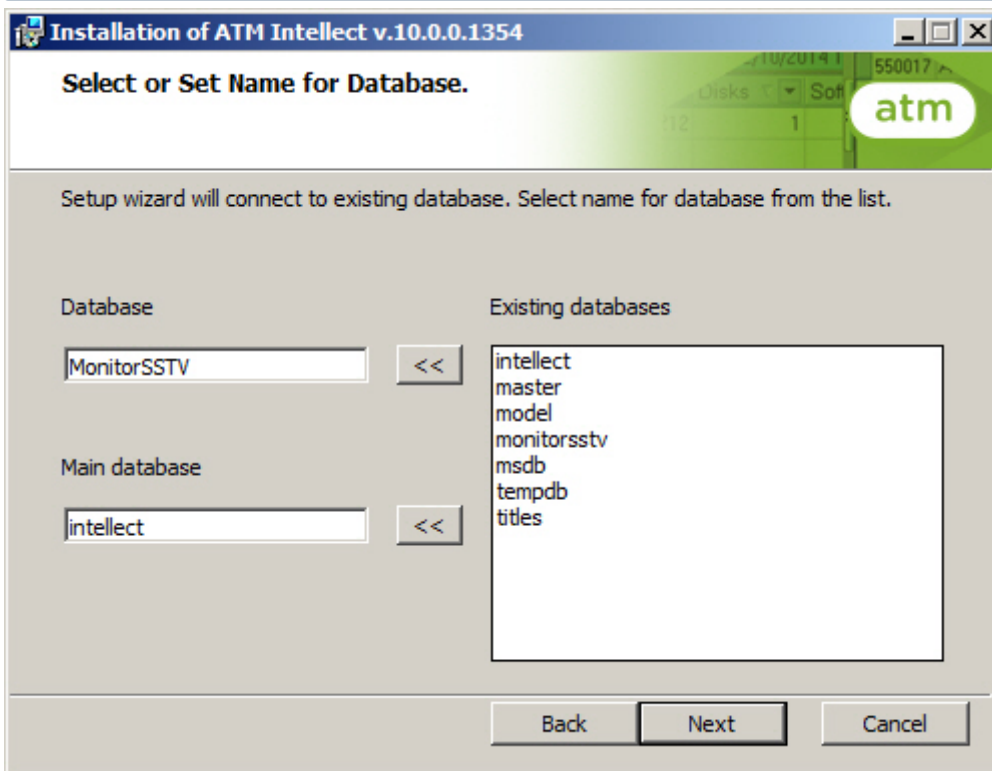


5. A dialog box to configure database connection will be displayed. Select the database server name and set up the connection parameters.



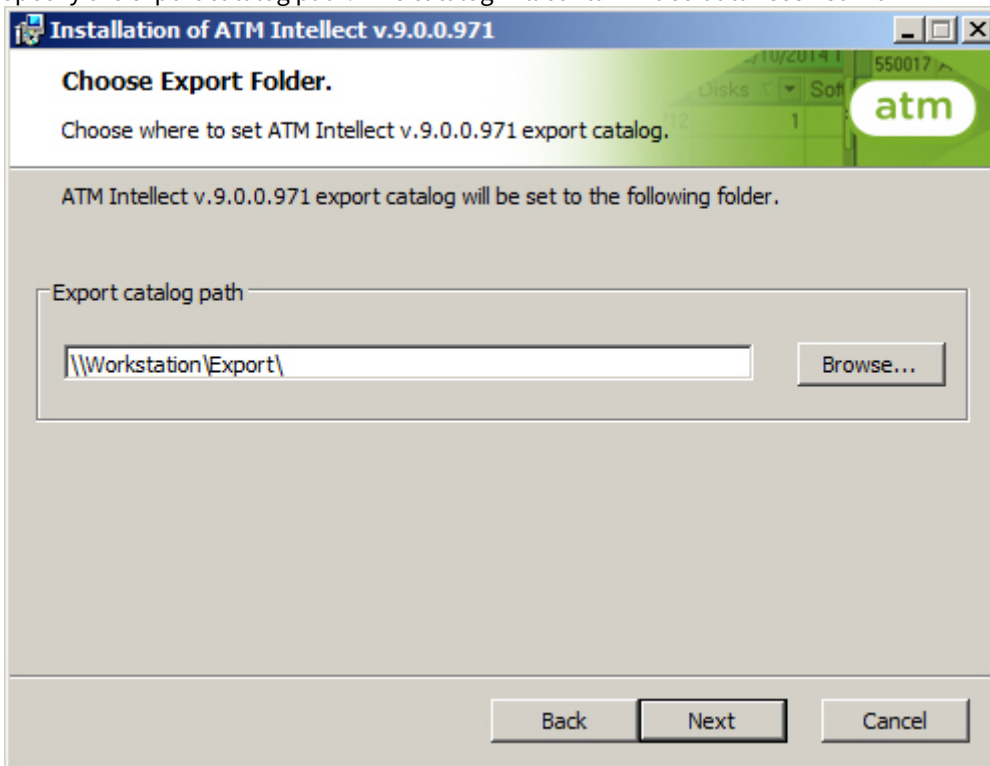
6. In the **Database** field specify the name of existing database or select it in the list of databases, which are created in the server, and click <<.

**Note**  
The default name of the database is MonitorSSTV.

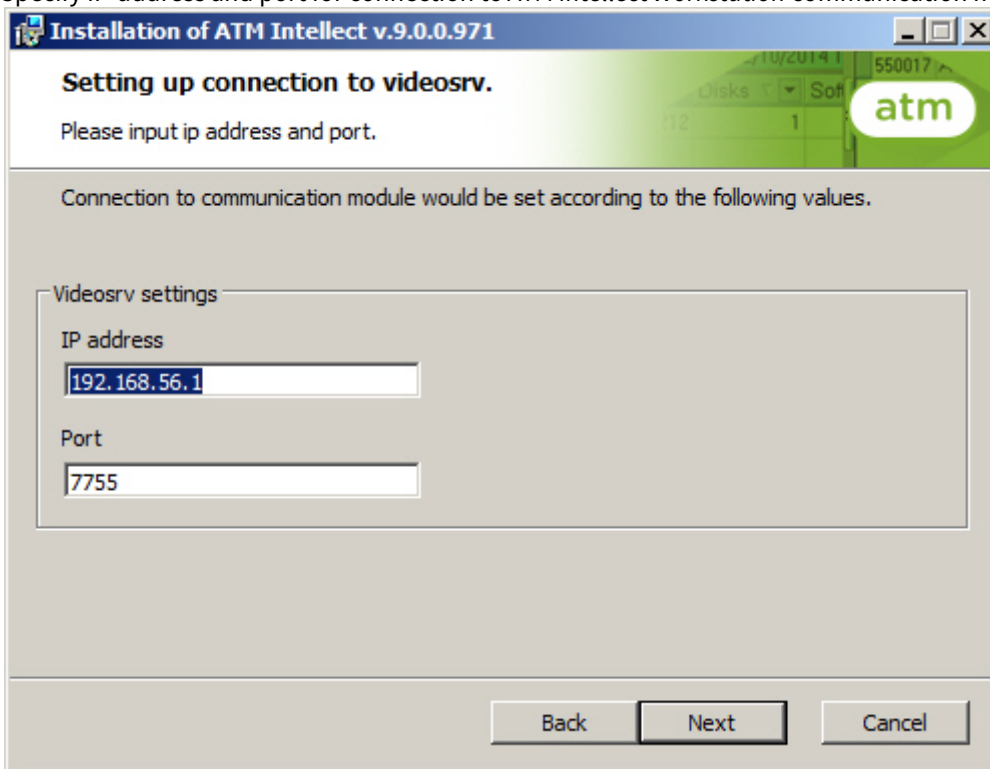


Click **Next**.

7. Specify the export catalog path. This catalog will contain video data received from *ATM Intellect Pro*.



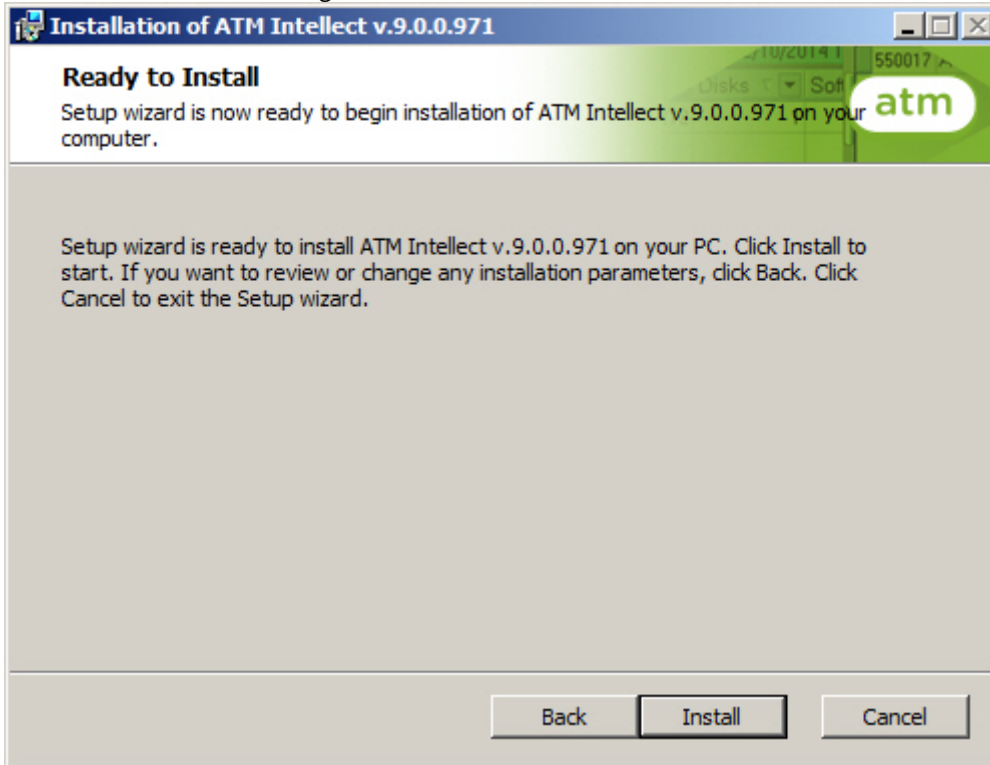
8. Specify IP-address and port for connection to *ATM Intellect Workstation* communication module videosrv.



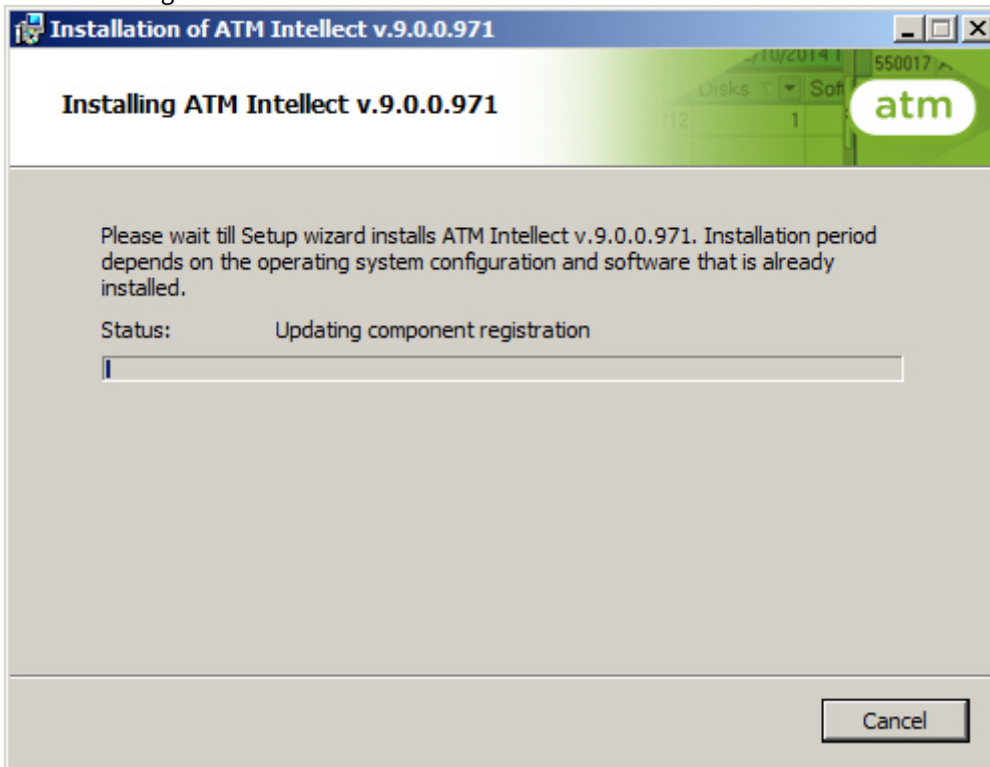
**Note.**

It is strongly recommended to change default **Export catalog path** and **IP address**. Otherwise, after the installation is completed, it will be necessary to configure Additional workplace (see [Additional workplace configuration](#)).

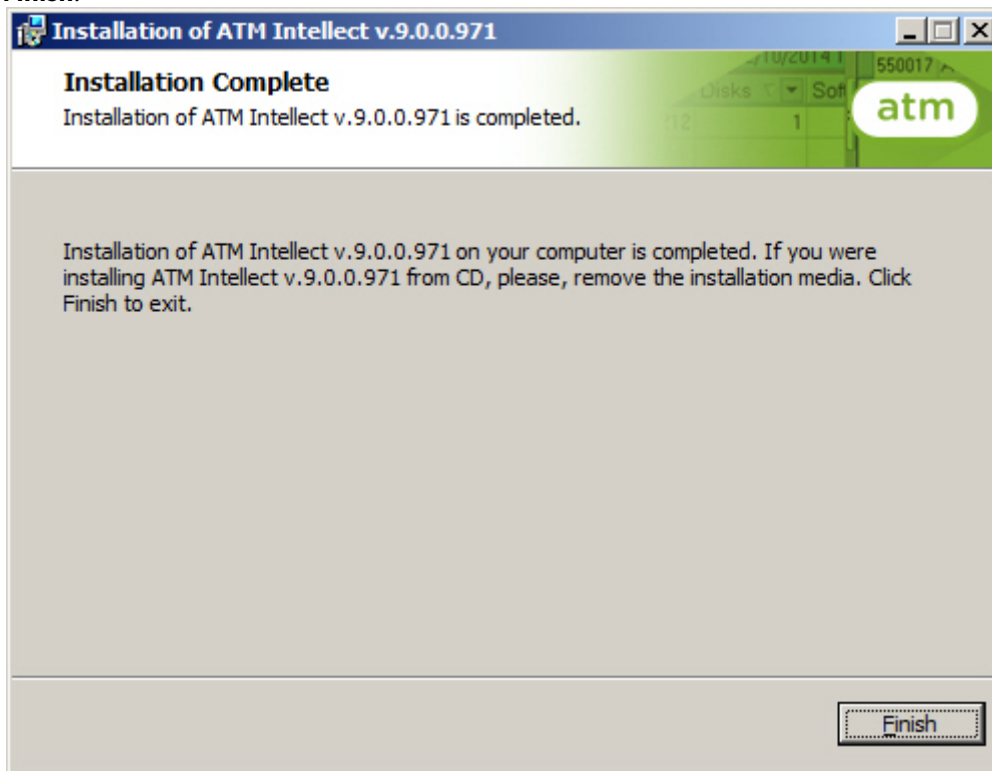
9. Click **Install** in the next dialog box.



10. Installation begins.



11. After the final installation tasks are completed, the wizard informs that the software has been successfully installed. Click **Finish**.



*Additional workplace* installation is completed.

## 6 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](#).

### 6.1 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.

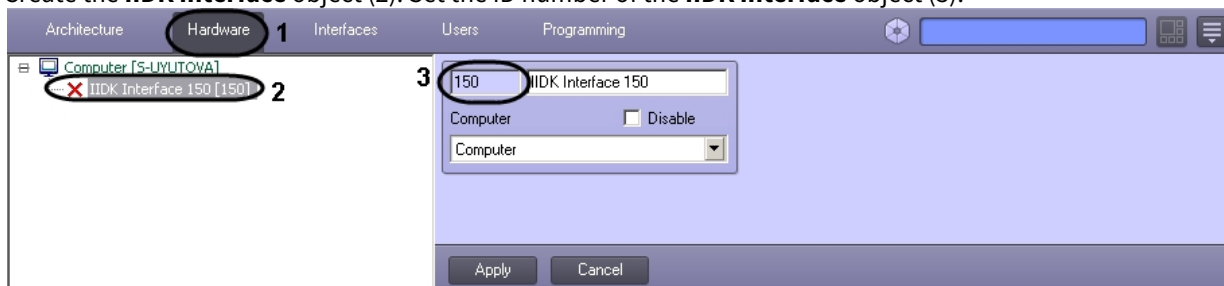
*ATM Intellect Workstation* configuration is performed in following order:

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

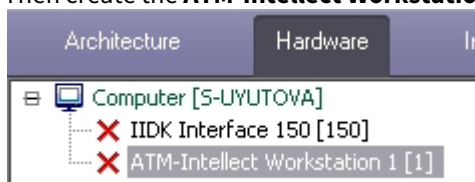
### 6.2 Creating ATM-Intellect Workstation objects in the hardware tree

Objects creation in the hardware tree is performed as follows:

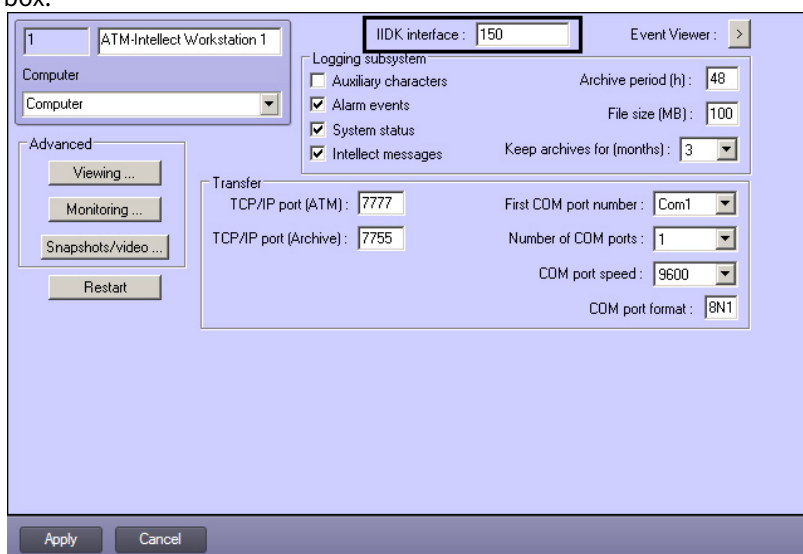
1. Go to the **Hardware** tab of the **System settings** dialog box (1).
2. Create the **IIDK Interface** object (2). Set the ID number of the **IIDK Interface** object (3).



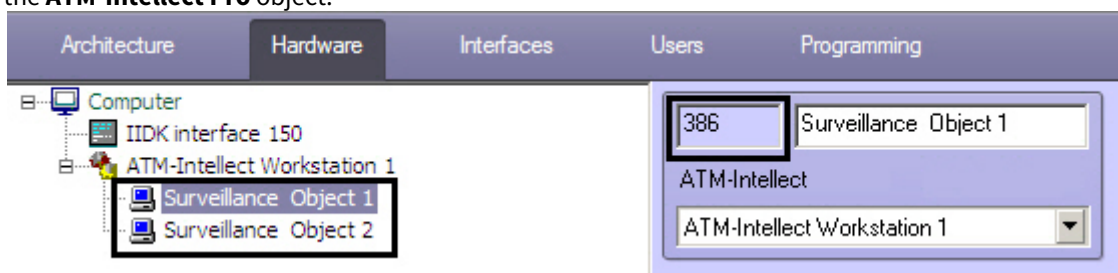
3. Then create the **ATM-Intellect Workstation** object.



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



- In the **IIDK interface** field enter the identification number of the **IIDK interface** object created on step 2.
- Create **Surveillance object** objects corresponding to the connected surveillance objects. When you create these objects specify the same ID as in the **ID** field on the settings panel of the corresponding **Surveillance object** object created under the **ATM-Intellect Pro** object.



**Note.**  
 The **ID** and **Name** fields must not contain underscores ( `_` ) or backslashes ( `\` ), the **ID** field is limited to 9 characters and must not contain spaces.  
 The address of the ATM can be specified as the object name.

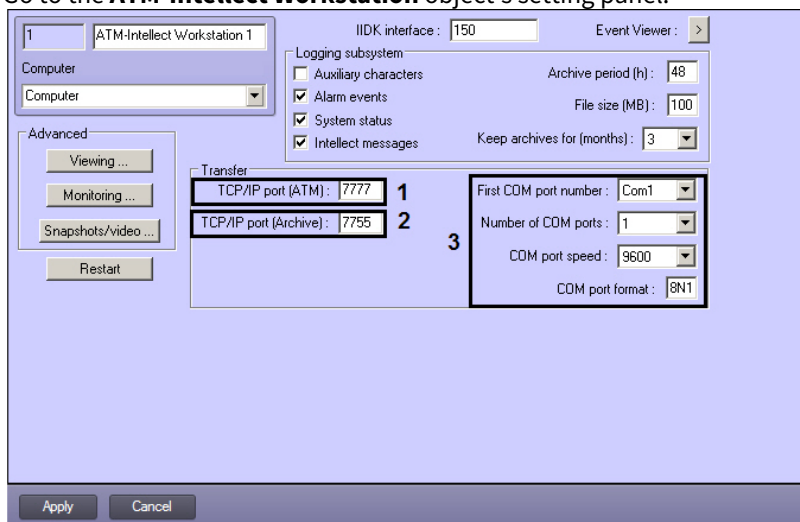
Objects creation is completed.

### 6.3 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.



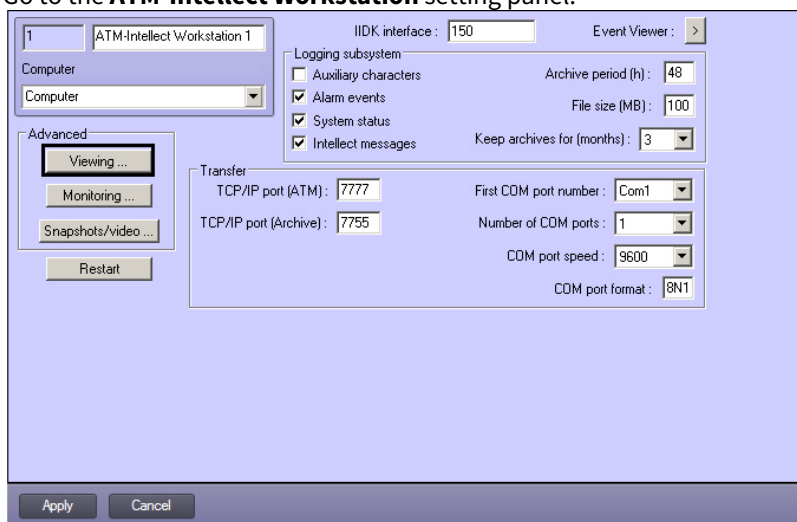
2. Set up TCP/IP connection:
  - a. In the **TCP/IP port (ATM)** field enter the TCP/IP port for communication with remote objects (1).
  - b. In the **TCP/IP port (Archive)** field enter the TCP/IP port for communication with the module *Search in archive* (2).
3. For operations via the RS232C protocol, the following parameters are configured: **First COM port number, Number of COM ports, COM port speed, COM port format** (3).
4. Press **Apply**.

Setting up the connection is completed.

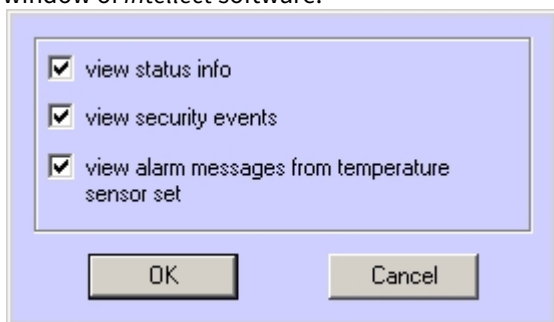
## 6.4 Specifying ATM-Intellect Workstation information for the Event Viewer

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 in the **Event Viewer** window of *Intellect* software.



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

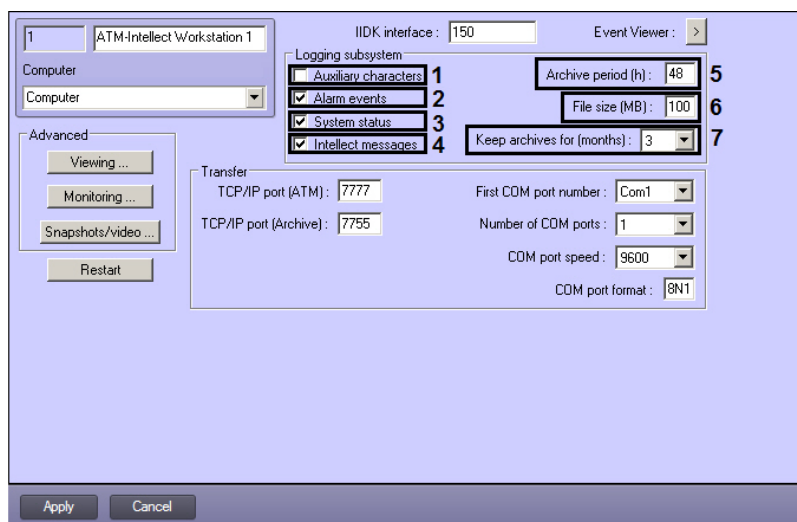
Specifying information for Event Viewer window is completed.

## 6.5 Setting up ATM-Intellect Workstation logging subsystem

The logging subsystem enables configuration of the logging level of *ATM-Intellect Workstation*.

The main log file 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 logging subsystem set up the following parameters on the *ATM-Intellect Workstation* object setting panel:



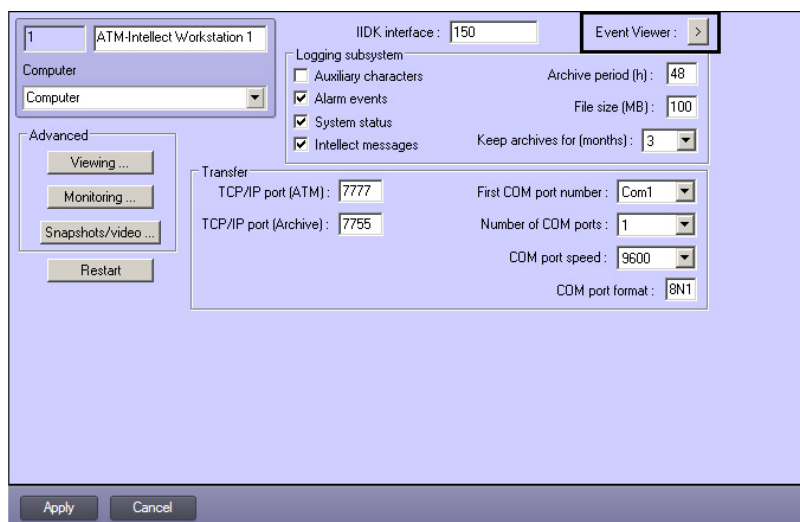
- Auxiliary characters.** Set the checkbox to log special characters of the transmitting level.
- Alarm events.** Set the checkbox to log alarm events (triggering of the vibration sensor, temperature sensor and opening lock under duress sensor).
- System status.** Set the checkbox to log events related to the system status.
- 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.
- Archive period (h).** Enter the time period for archiving the log file (in hours). Archives are saved in the DATA subfolder, in the following format: namelog\_yymmddhhmmss.gz, where
  - namelog is the name of the archived log file;
  - yy is the year of archive creation;
  - mm is the month of archive creation;
  - dd is the day of archive creation;
  - hh is the hour of archive creation;
  - mm is the minute of archive creation;
  - ss is the second of archive creation.

6. **File size (MB)**. Enter the size of the log file (in megabytes) after which the file will be archived. This setting overrides the value in the **Archiving period (h)** field.
7. **Keep archives for (months)**. Select from the list the term of storage for the archived log file, in months (from 1 to 24). After this term expires, the archives are deleted.

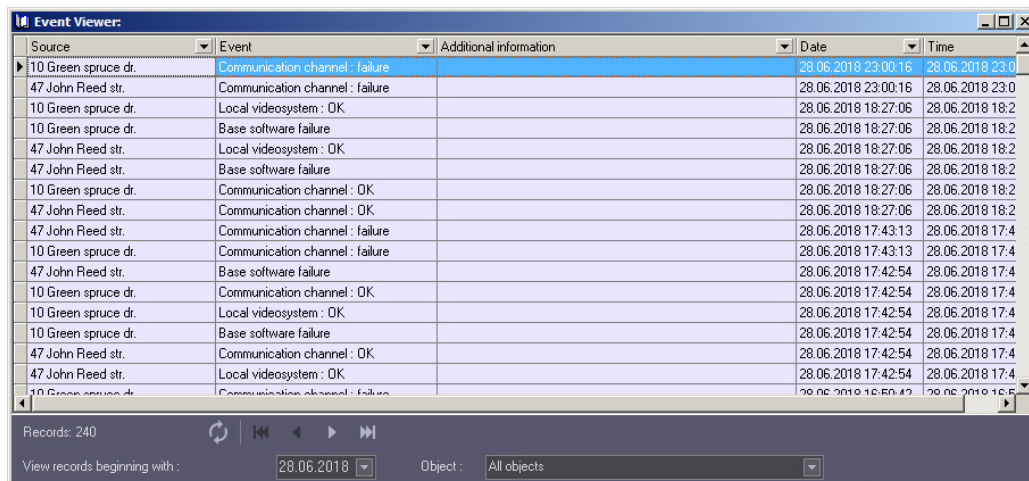
### 6.5.1 ATM-Intellect Workstation. The Event Viewer utility

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 Viewer* utility is required in such cases. This utility operates the database directly and allows viewing information from the whole length of time used to keep the event log in the database.

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



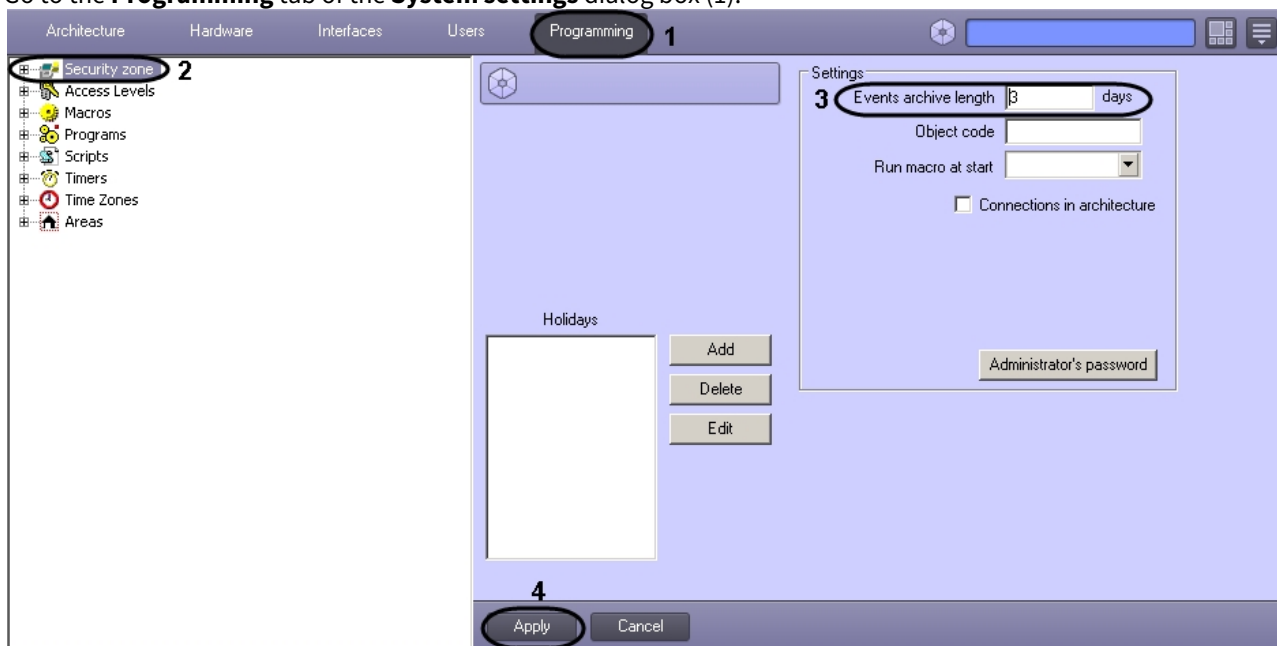
The *Event Viewer* utility allows sorting and filtering data.



### 6.5.2 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).



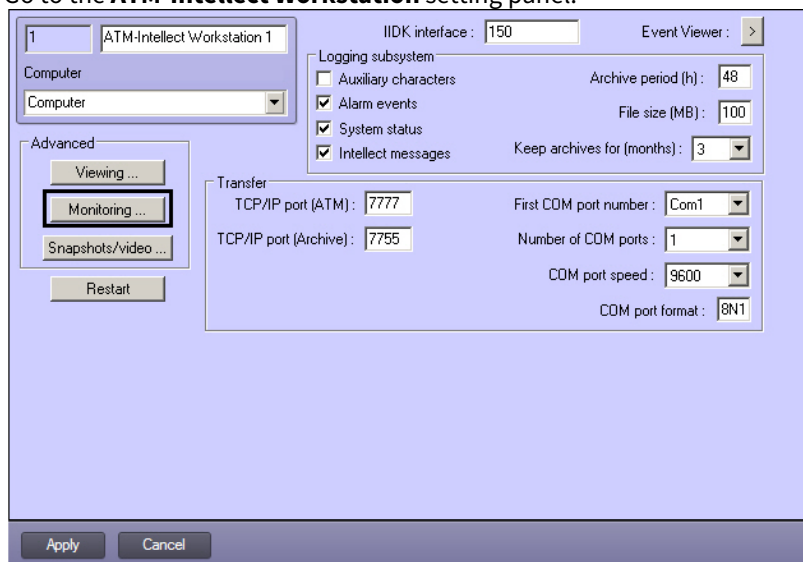
2. Go to the **Security zone** object setting panel (2).
3. Specify the term of keeping the event log in the **Event archive length** field (3).
4. Press **Apply** (4).

Specifying the term of keeping the event log is completed.

## 6.6 Setting up data monitoring

Data monitoring is set up as follows:

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



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

- Go to the **Retranslation** tab (1).
- If Central Security Console (CSC) is installed on CCRVS, enable the **Forwarding alarm messages** option and specify the corresponding IP address and TCP port (2).

**Note.**

This setting is for compatibility with old versions of ATM-Intellect. It is not used in current versions.

- 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 panel (3). Specify the **IP address** and the **TCP port** of the PC on which *ATM-Intellect Workstation TC* is installed.
- To control the normal operation of the [Data loader for Monitoring](#) of *ATM-Intellect Workstation*, the following configurable parameters are used:
  - ID** is the unique ID number of *ATM-Intellect Workstation* (4).
  - 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* (5).
- Press **OK** (6).

Configuring data monitoring is completed.

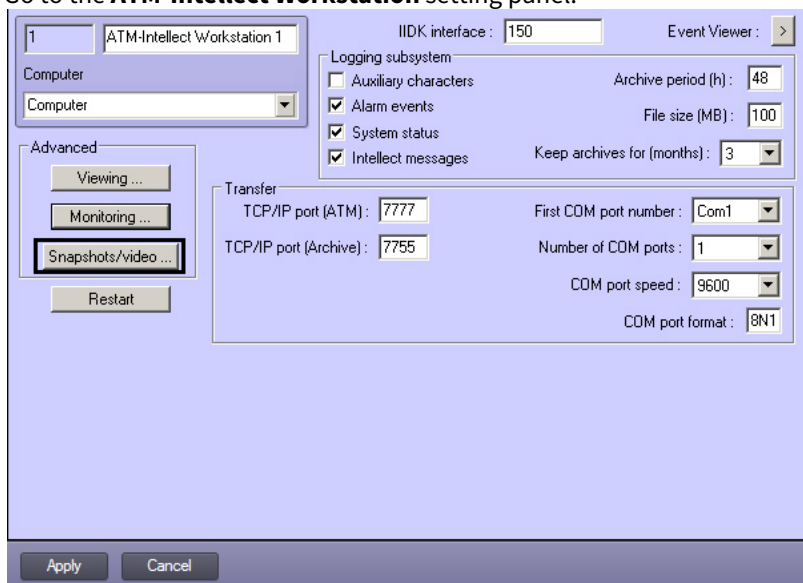
## 6.7 Setting up the reaction on receiving images and clips

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:

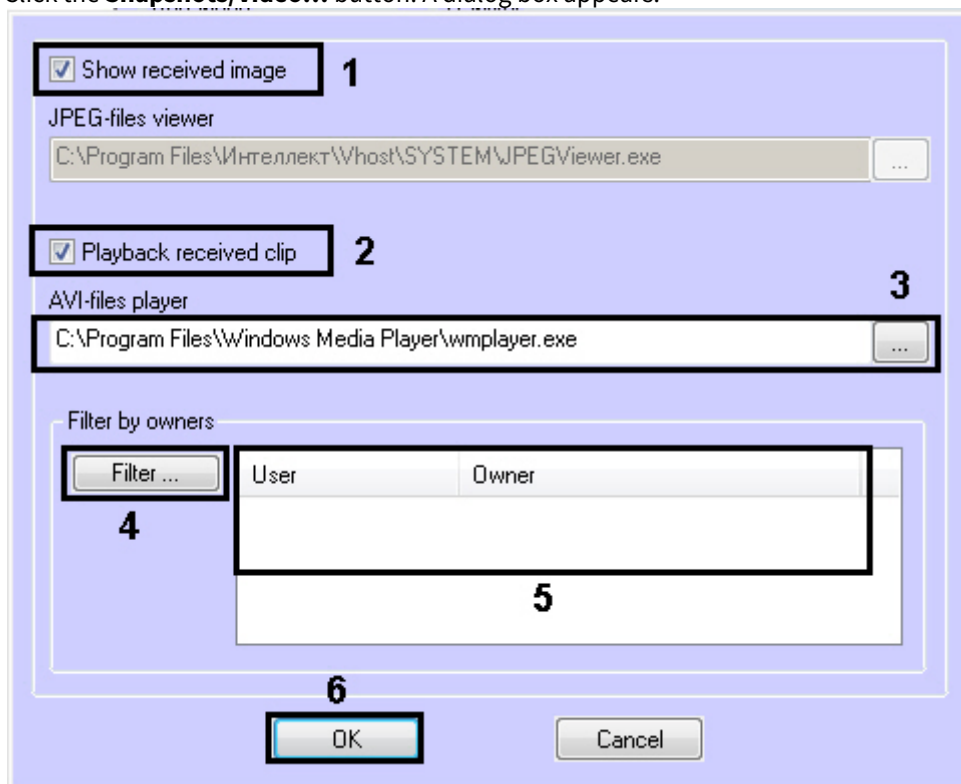
**Note.**

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

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).

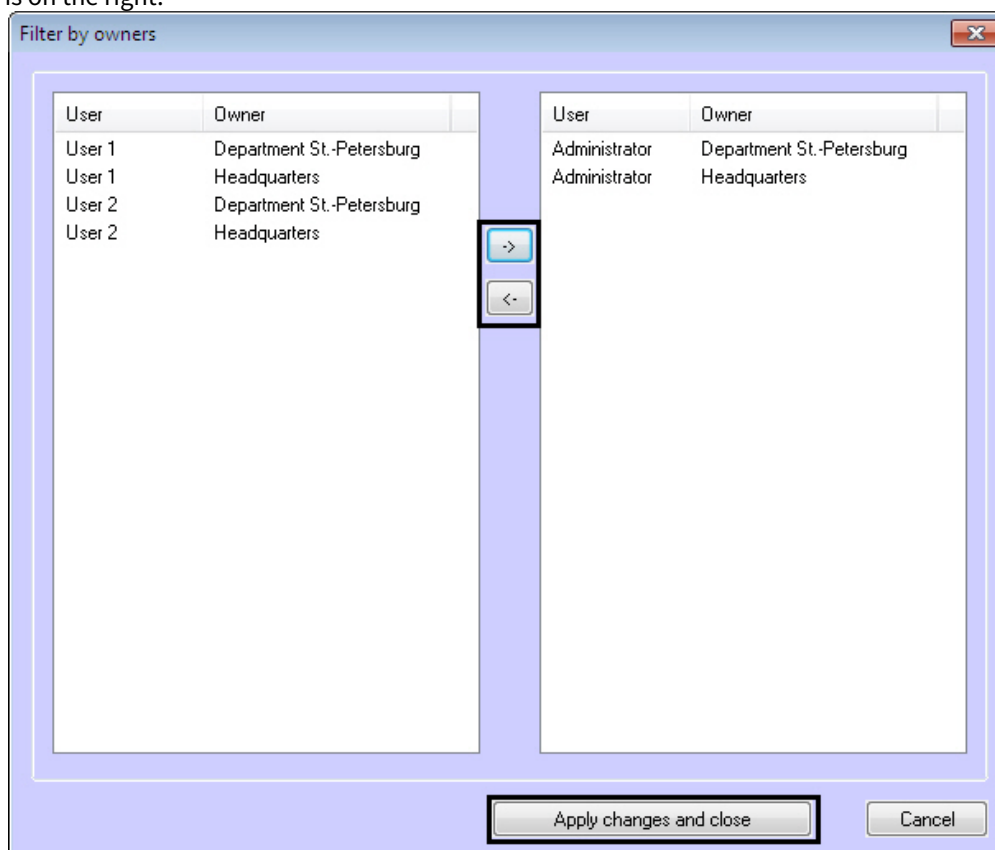
4. If you need to open received video clip set the following parameters:

- a. Set the **Playback received clip** checkbox (2).
- b. Specify the full path to the application used to play received video files (3).

**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. If snapshots and videos only from sites belonging to specific owners are to be available for specific users, then set the filter by owners:
  - a. Click the **Filter...** button (8).
  - b. The **Filter by owners** window appears. The list of available user-owner pairs is on the left, the list of selected ones is on the right.



**Note.**

The list of owners is set on the Control Panel – see [Reference information](#) section of [Operator's Guide](#). Users and their rights are configured in the **Users** tab of the **System settings** dialog box – get information on how to do it in the *Intellect Software Package. Administrator's Guide*. The latest version of this document can be found in [AxxonSoft documentation repository](#).

- c. Move the pairs between the lists using the <- and -> buttons.
  - d. When the list of user-owner pairs is formed, click the **Apply changes and close** button.
6. Selected pairs of users and owners are displayed in the table (9).
7. Press **OK** (6).

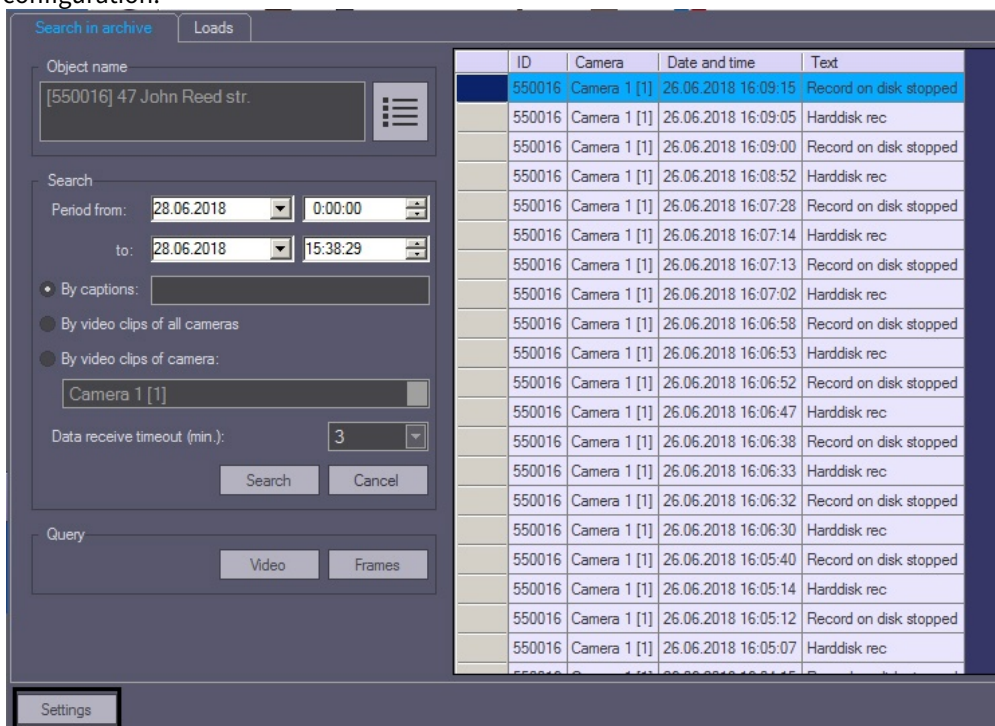
Configuring the program for cases when snapshots or video clips are received is completed.

## 6.8 List of Additional workplaces

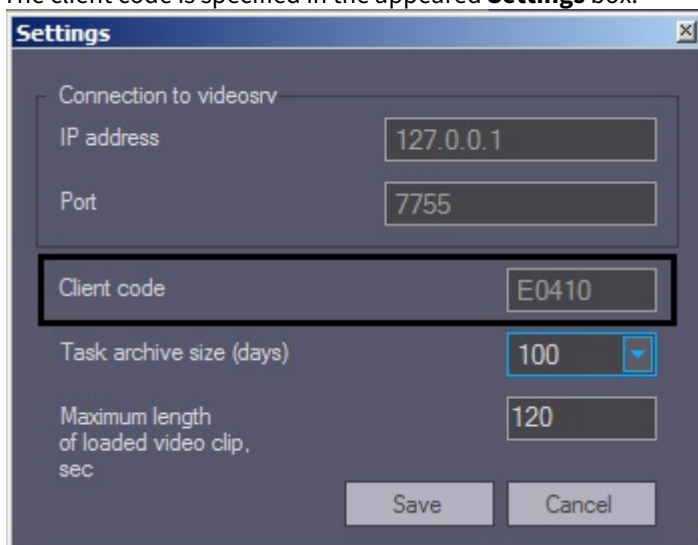
For the *Additional workplaces* software operation, it is necessary to configure the list of additional workplaces in the *ATM-Intellect Workstation*, and specify the computer name and client code for each of them.

The client code is bound to the computer hardware. You can find it out as follows:

1. On the computer with installed *ATM-Intellect* software, open the **Search in archive** interface in the Additional workplace configuration.



2. Click the **Settings** button in the bottom left corner.
3. The client code is specified in the appeared **Settings** box.



The list of Additional workplaces that can be connected to the *ATM-Intellect Workstation* is configured as follows:

1. Go to the settings panel of the **ATM-Intellect Workstation** object.

The screenshot shows the settings panel for 'ATM-Intellect Workstation 1'. The 'Monitoring...' button in the 'Advanced' section is highlighted with a red box. Other visible settings include: IIDK interface: 150, Event Viewer: >, Logging subsystem (Auxiliary characters: unchecked, Alarm events: checked, System status: checked, Intellect messages: checked), Archive period (h): 48, File size (MB): 100, Keep archives for (months): 3, Transfer (TCP/IP port (ATM): 7777, TCP/IP port (Archive): 7755, First COM port number: Com1, Number of COM ports: 1, COM port speed: 9600, COM port format: 8N1), and buttons for Viewing..., Monitoring..., Snapshots/video..., Restart, Apply, and Cancel.

2. Click the **Monitoring...** button. As a result, the box of configuring the list of Additional workplaces appears.

The screenshot shows the 'Additional workplaces' configuration dialog box. It features a table with two columns: 'Computer name' and 'Client code'. The table is currently empty. Below the table are buttons for 'Add...', 'Edit...', and 'Delete'. At the bottom, there are 'Additional workplaces' and 'Retranslation' labels, and 'OK' and 'Cancel' buttons. The 'Add...' button is highlighted with a red box.

3. To add an Additional workplace to the list click the **Add...** button.

- In the appeared box specify the computer name on which the Additional workplace is installed (1).

The screenshot shows a dialog box titled "Additional workplace". It has two text input fields: "Computer name" with the value "WS1" and "Client code" with the value "9537E". Below the fields are two buttons: "OK" and "Cancel". Red numbers 1, 2, and 3 are overlaid on the image to indicate the steps: 1 points to the Computer name field, 2 points to the Client code field, and 3 points to the OK button.

- Specify the client code in the **Client code** field (2).
- Click the **OK** button (3).
- Repeat steps 3-6 for all Additional workplaces that will be connected to this *ATM-Intellect Workstation*.



**Note.**

To edit specified settings select the Additional workplace in the list and click the **Edit...** button.  
To delete the Additional workplace in the list select it in the list and click the **Delete** button.

- Click the **OK** button.
- Click the **Apply** button.

The list of Additional workplaces is now configured.

## 6.9 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:

- 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).
- 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).

## 6.10 Configuring sound notification at ATM Intellect Workstation

The *ATM Intellect* software allows configuring audio feedback for alarms received from an *ATM Intellect Pro*. For this do the following:

**Note.**

This function is not supported for the Additional Workplace in non-distributed configuration.

- Create a **Display** object in the **Interfaces** tab.
- Create an **Audio player** object on the base of the **Display** object.
- Run the *System configuration* utility (ddi.exe).

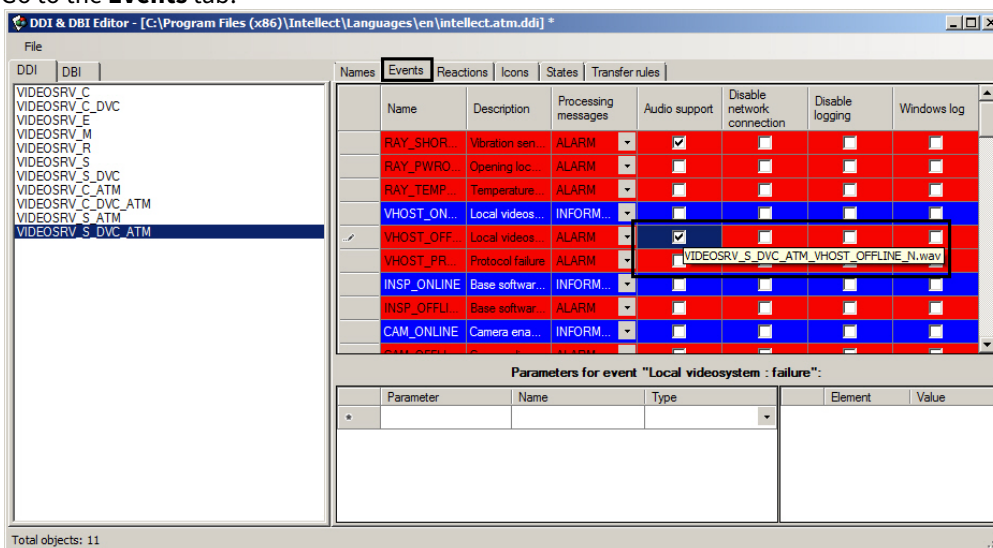


**Note.**

Detailed info on using this utility is given in the *Intellect software. Administrator's Guide*. The most relevant version of this document is available in [AxxonSoft documentation repository](#).

- Open the intellect.atm.ddi file.
- Select the VIDEOSRV\_S\_DVC\_ATM (**Surveillance object**) object.

6. Go to the **Events** tab.



7. In the **Audio support** column set checkboxes for all events that have to be followed by an audio signal. A screentip shows the required name of the wav file. N is an ID of the VIDEOSRV\_S\_DVC\_ATM object.

8. Create corresponding files and put them to the <Intellect installation>\Wav folder.

Configuration of sound notification at *ATM Intellect Workstation* is completed.

### 6.11 Creating and configuring Data gateway

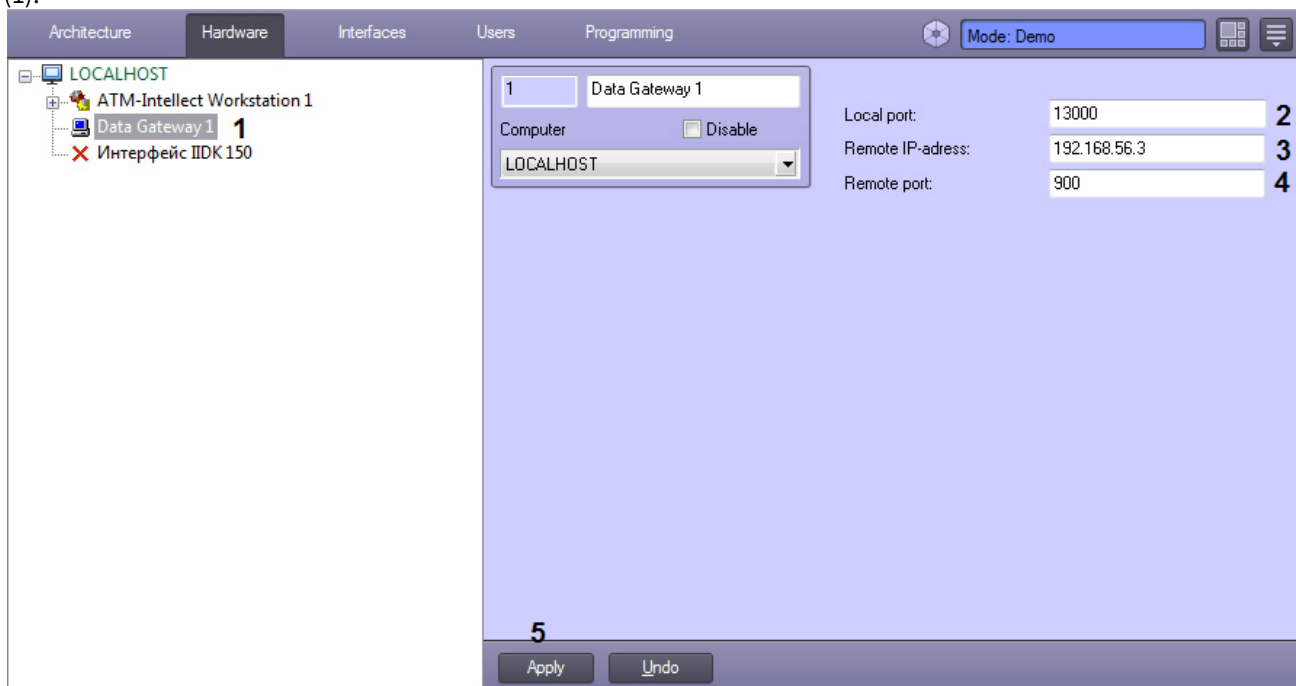
Data gateway is needed when live video is transmitted from *ATM-Intellect Pro* to Additional workplace in another subnet and *ATM-Intellect* software components are not united in the distributed video surveillance system, as so as in this case **Video gate** object cannot be used.

The **Data gateway** objects are created on the computers with *ATM-Intellect Workstation* installed. The number of the **Data gateway** objects must be equal to the number of *ATM-Intellect Pro* to receive live video from. For example, if there are 10 **ATM-Intellect Pro**, then create 10 **Data Gateways** with **Local port** and **Remote IP-address** corresponding to those *ATM-Intellect Pro*.

In this section, the description of **Data gateway** configuration is given. By default, this module is not enabled for live video transmitting to Additional workplaces. In order to enable Data gateway, set the **View live video through the gate** in the **ATM Monitoring** interface object settings panel – see [Configuring the ATM Monitoring object](#).

**Data gateway** object configuration is performed as follows:

1. Create the **Data gateway** object based on the **Computer** object on the **Hardware** tab of the **System settings** dialog box (1).



2. In the **Local port** field enter the number of the port in the system for connection of *Additional Workplaces* (2).
3. In the **Remote IP-address** field enter IP-address of the *ATM-Intellect Pro* (3).
4. In the **Remote port** field enter the standard port of the *ATM-Intellect Pro* (4). Do not change the default value in most cases. It is to be changed only if by some reason the system uses intermediate server with port forwarding.
5. Click **Apply** (5).

**Data gateway** object configuration is completed.

## 7 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](#).

### 7.1 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.

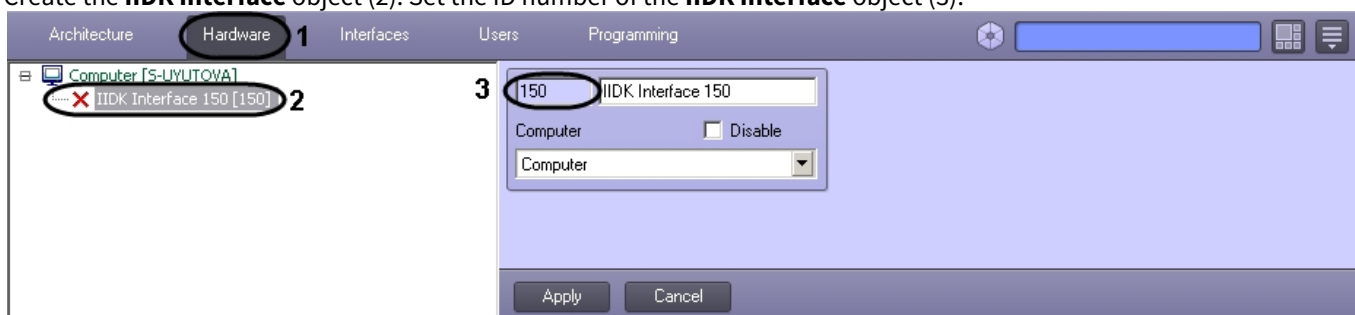
ATM Intellect Workstation TC configuration is performed in following order:

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

### 7.2 Creating ATM-Intellect Workstation TC objects in the hardware tree

Objects creation in the hardware tree is performed as follows:

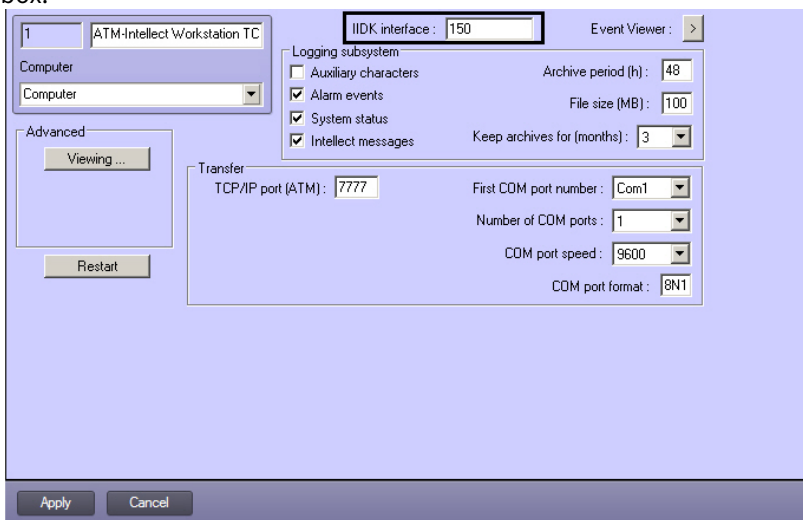
1. Go to the **Hardware** tab of the **System settings** dialog box (1).
2. Create the **IIDK Interface** object (2). Set the ID number of the **IIDK Interface** object (3).



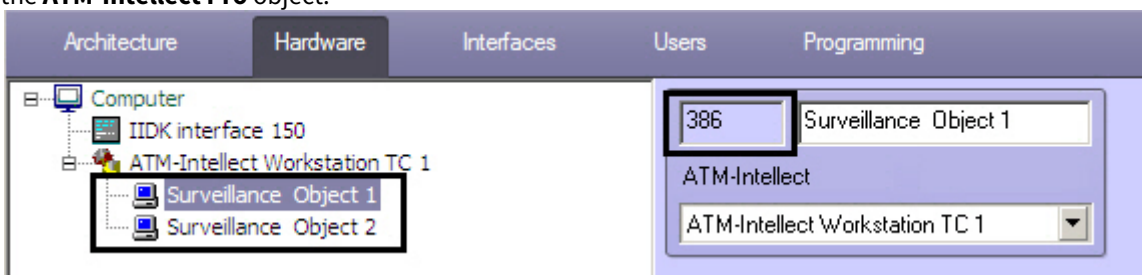
3. Then create the **ATM-Intellect Workstation TC** object.



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



- In the **IIDK interface** field enter the identification number of the **IIDK interface** object created on step 2.
- Create **Surveillance object** objects corresponding to the connected surveillance objects. When you create these objects specify the same ID as in the **ID** field on the settings panel of the corresponding **Surveillance object** object created under the **ATM-Intellect Pro** object.



**Note.**

The **ID** and **Name** fields must not contain underscores ( \_ ) or backslashes ( \ ), the **ID** field is limited to 9 characters and must not contain spaces.  
 The address of the ATM can be specified as the object name.

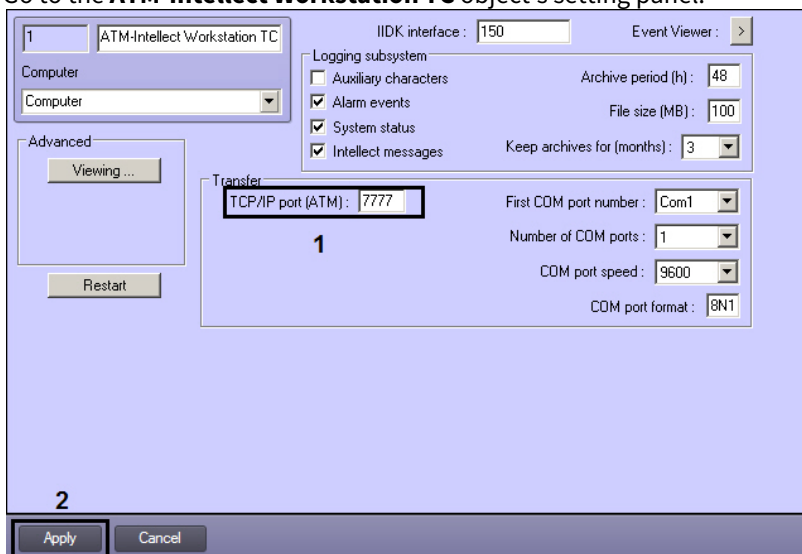
Objects creation is completed.

### 7.3 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.



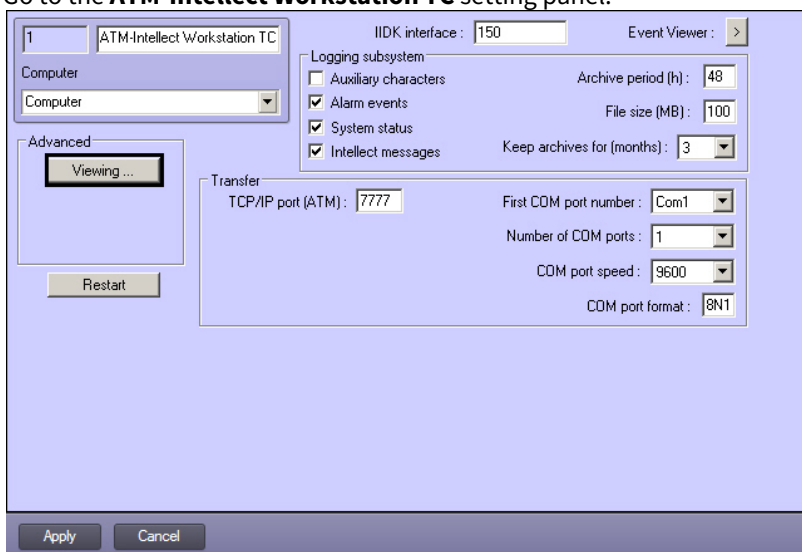
2. In the **TCP/IP port (ATM)** field enter the port for communication via the TCP/IP protocol with remote *ATM-Intellect Workstations* (1).
3. Click **Apply** to save settings (2).

Setting up a connection is completed.

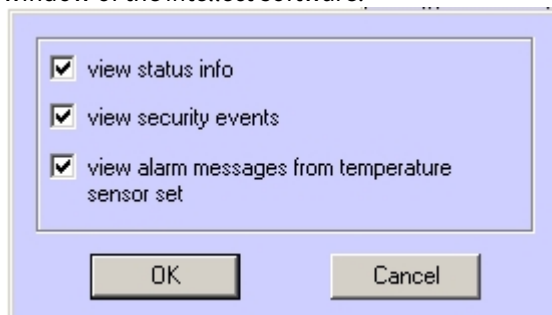
## 7.4 Specifying the ATM-Intellect Workstation TC information for the Event Viewer

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 in the *Event Viewer* window of the *Intellect* software.



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

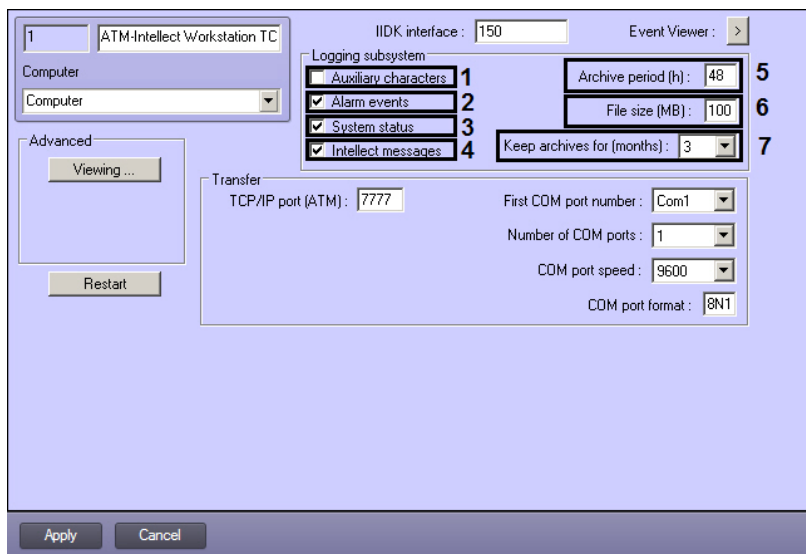
Specifying information for *Event Viewer* window is completed.

## 7.5 Setting up ATM-Intellect Workstation TC logging subsystem

The logging subsystem enables configuration of the logging level of *ATM-Intellect Workstation TC*.

The main log file 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 logging subsystem 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. **Alarm events.** Set the checkbox to log alarm events.

### Attention!

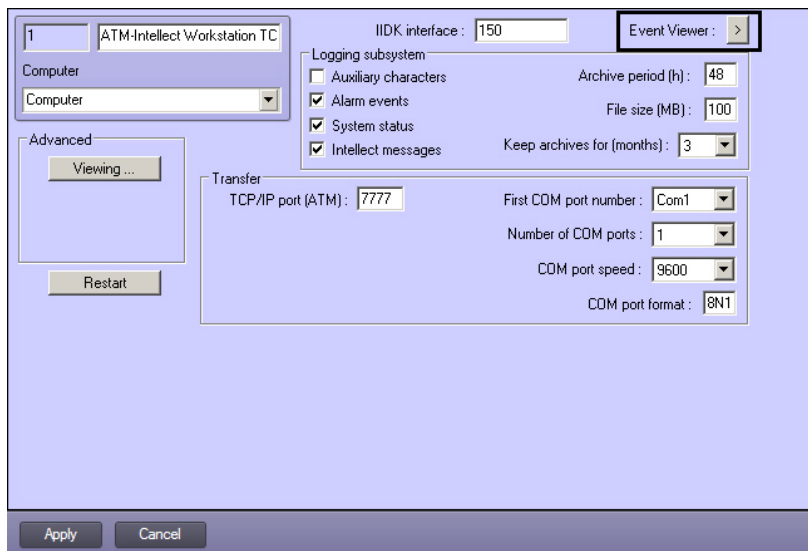
*ATM-Intellect Workstation TC* receives the equipment-caused alarms only: UPS alarms, alarms caused by normal or abnormal PC reboot, signals from thermal sensors (DS18S20). *ATM-Intellect Workstation TC* does **not** receive sensor alarms.

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 log file (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 log file;
  - 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 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 log file, in months (from 1 to 24). After this term expires, the archives are deleted.

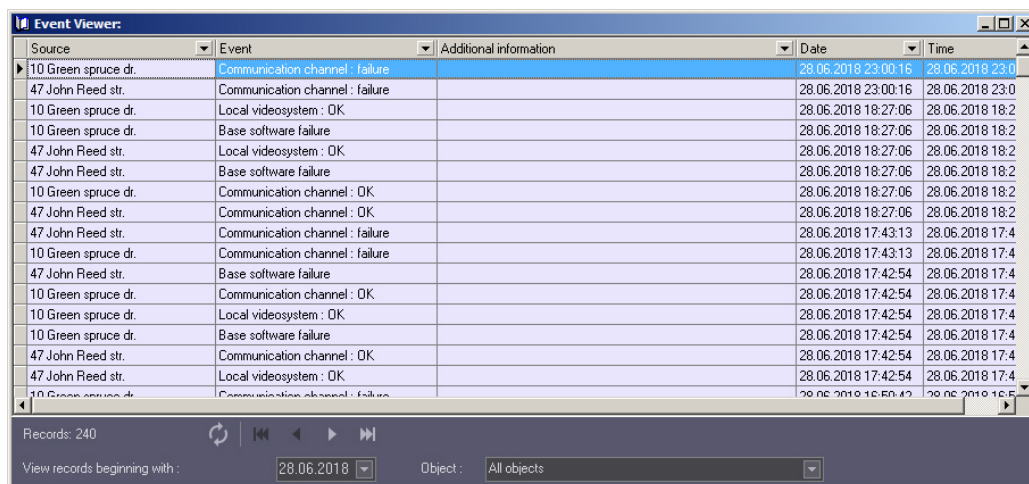
### 7.5.1 ATM-Intellect Workstation TC. The Event Viewer utility

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 Viewer* 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 Viewer* utility, click the **Event Viewer** button on the **ATM-Intellect Workstation TC** settings panel.



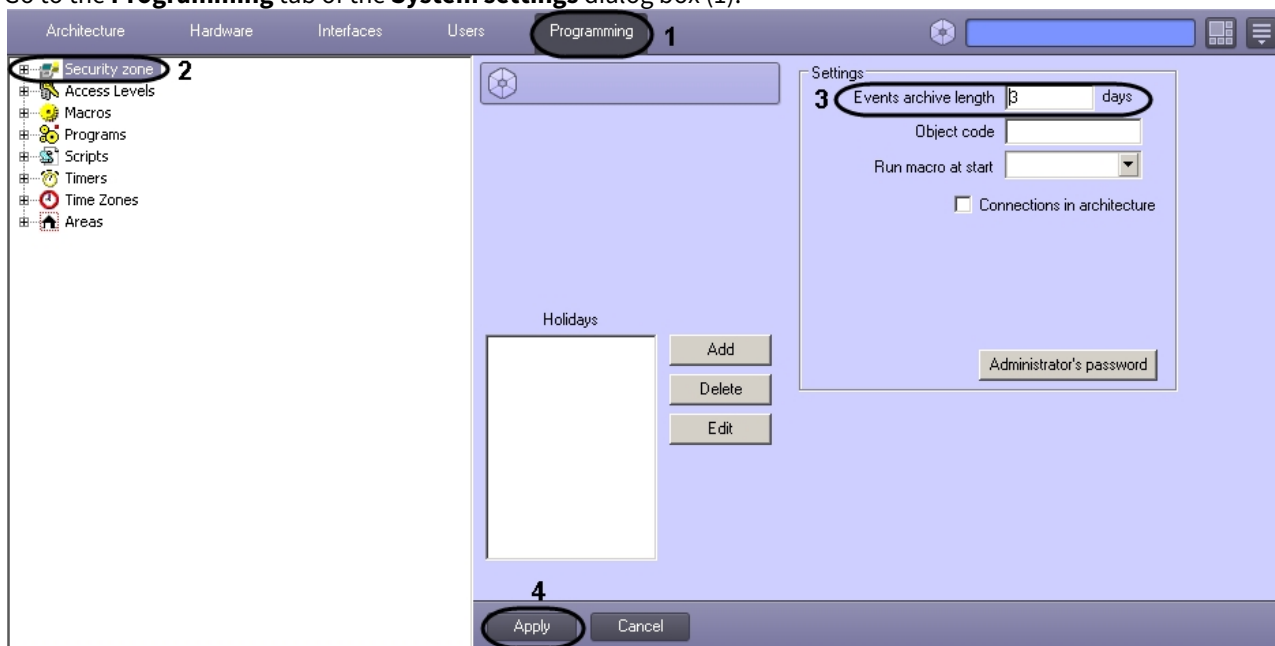
The *Event Viewer* utility allows to sort and filter data.



### 7.5.2 Specifying storage time for ATM-Intellect Workstation TC 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.

## 7.6 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 full access to the *ATM-Intellect Workstation TC* section of the registry:

HKEY\_LOCAL\_MACHINE\Software\BitSoft for 32-bit system  
 (HKEY\_LOCAL\_MACHINE\Software\Wow6432Node\BitSoft for 64-bit).

## 8 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](#).

### 8.1 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 each of these objects shall be configured locally, not remotely.

*ATM Intellect Pro* configuration is performed in the 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.

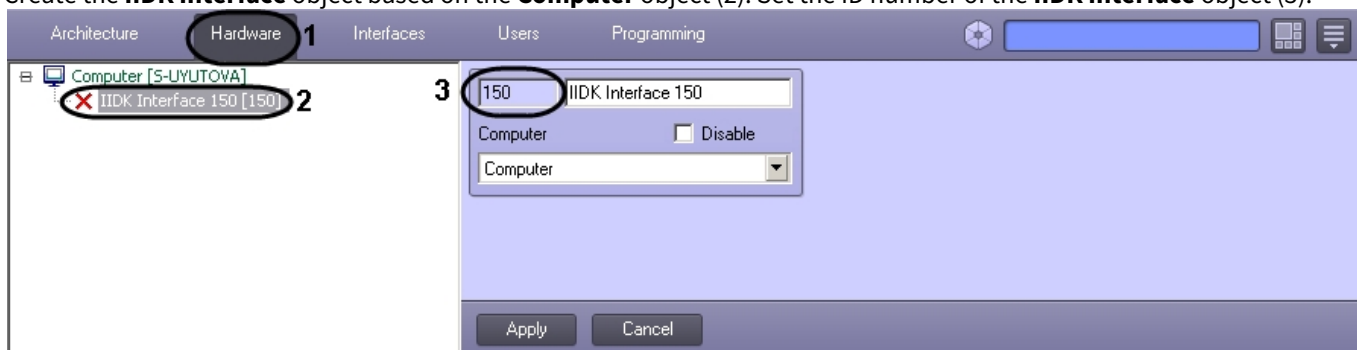
#### **Attention!**

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

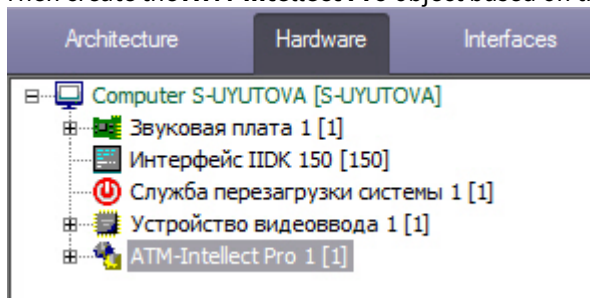
### 8.2 Creating ATM Intellect Pro objects in the hardware tree

Objects creation in the hardware tree is performed as follows:

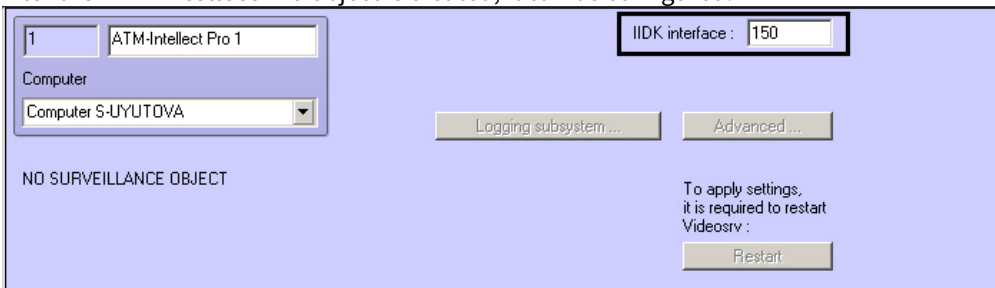
1. Go to the **Hardware** tab (1).
2. Create the **IIDK Interface** object based on the **Computer** object (2). Set the ID number of the **IIDK Interface** object (3).



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

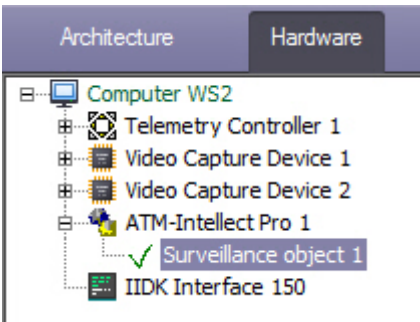


4. After the **ATM-Intellect Pro** object is created, it can be configured.

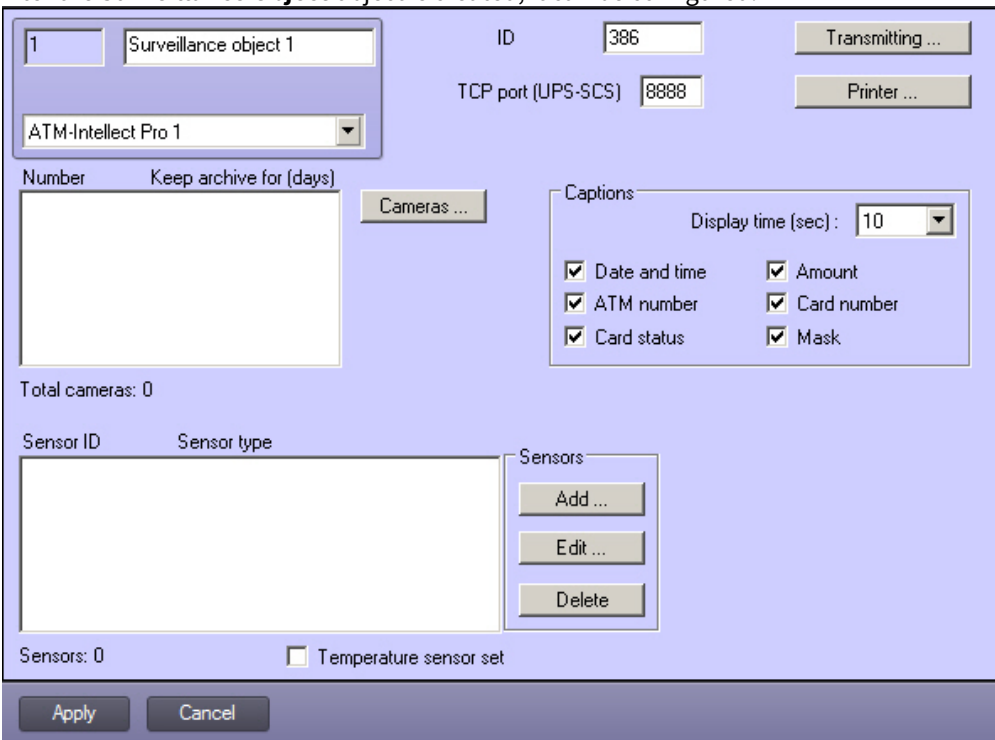


5. In the **IIDK interface** field enter the identification number of the **IIDK interface** object created on step 2.

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.

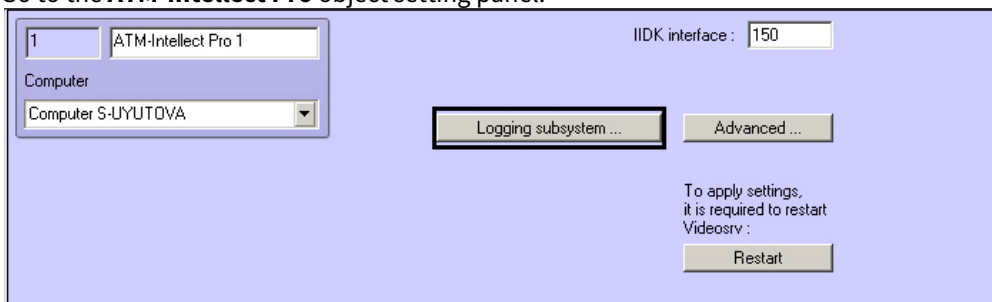
## 8.3 Configuration of the ATM-Intellect Pro object

### 8.3.1 Setting up ATM-Intellect Pro logging subsystem

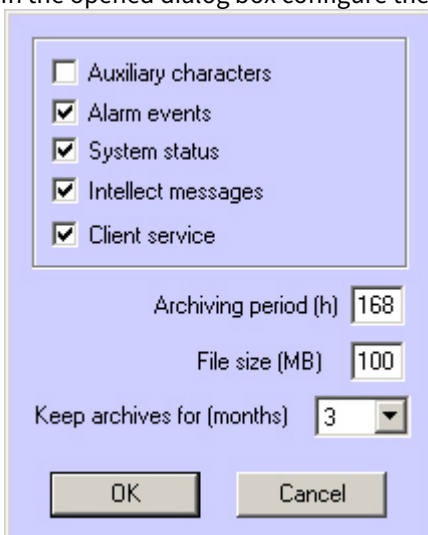
The logging subsystem enables configuration of the logging level of *ATM-Intellect Pro*.

To configure the logging subsystem proceed as follows:

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



2. Click the **Logging subsystem...** button.
3. In the opened dialog box configure the following parameters:



- Auxiliary characters.** Set the checkbox to log auxiliary characters on the transport level.
- Alarm events.** Set the checkbox to log alarm events (activation of vibration sensor, temperature sensor, or forceable lock opening).
- System status.** Set the checkbox to log events related to the system status.
- 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.
- Client service.** Set the checkbox to log the performance of financial transactions on the ATM.
- Archiving period (h).** Allows archiving the log file 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 log file;
  - 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.
- File size (MB).** Sets the size of the log file (in megabytes) after which the file will be archived. This setting overrides the value in the **Archiving period (h)** field.

- h. **Keep archives for (months)**. Sets the term of storage for the archived log file, in months (from 1 to 24). After this term expires, the archives are deleted.

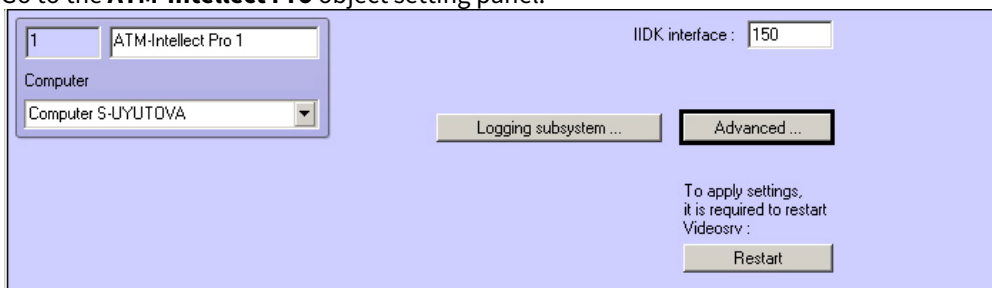
The main log file is stored in the folder in which the software was installed, in the file vsrvYYMMDD.log, where YY is the year, MM is the month and DD is the day.

Setting up logging subsystem is completed.

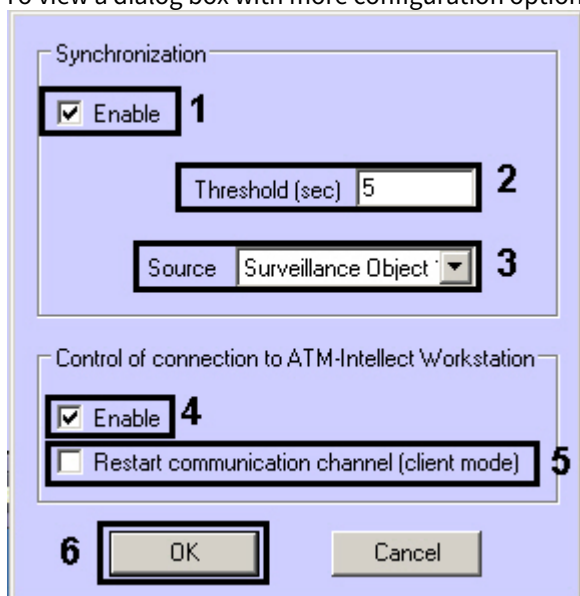
### 8.3.2 Configuring time synchronization and control of connection

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 communication channel (client mode)** setting.

- b. Set the **Restart communication channel (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.

## 8.4 Configuration of the Surveillance Object object

### 8.4.1 Setting Surveillance Object ID

To set the Surveillance Object ID, do the following:

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

The screenshot shows the 'Surveillance Object' configuration window. At the top, there is a text box for the object name 'Surveillance Object 1' and a dropdown menu set to 'ATM-Intellect Pro 1'. To the right, the 'ID' field is highlighted with a red box and contains the number '386'. Below it, the 'TCP port (UPS-SCS)' is set to '8888'. There are buttons for 'Transmitting ...' and 'Printer ...'. A 'Cameras ...' button is located next to a table with columns 'Number' and 'Keep archive for (days)'. Below this is a 'Captions' section with a 'Display time (sec):' dropdown set to '10' and several checked checkboxes: 'Date and time', 'Amount', 'ATM number', 'Card number', 'Card status', and 'Mask'. At the bottom, there is a 'Sensors' section with a table for 'Sensor ID' and 'Sensor type', and buttons for 'Add ...', 'Edit ...', and 'Delete'. The 'Sensors: 0' and 'Temperature sensor set' checkbox are also visible. At the very bottom are 'Apply' and 'Cancel' buttons.

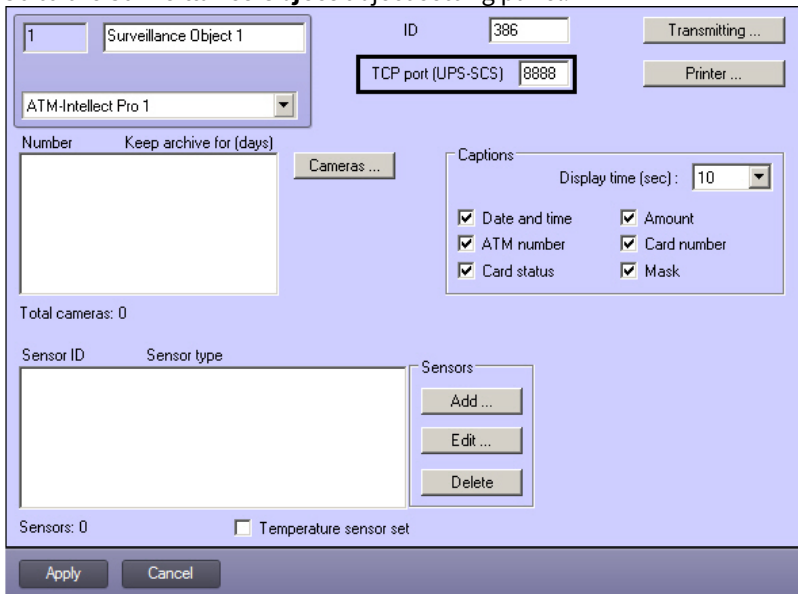
2. In the **ID** field enter the unique ID number of the object on which *ATM Intellect Pro* is installed. May contain 3 to 9 characters.
3. Click **Apply** to save changes.

Setting Surveillance Object ID is completed.

### 8.4.2 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.



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.

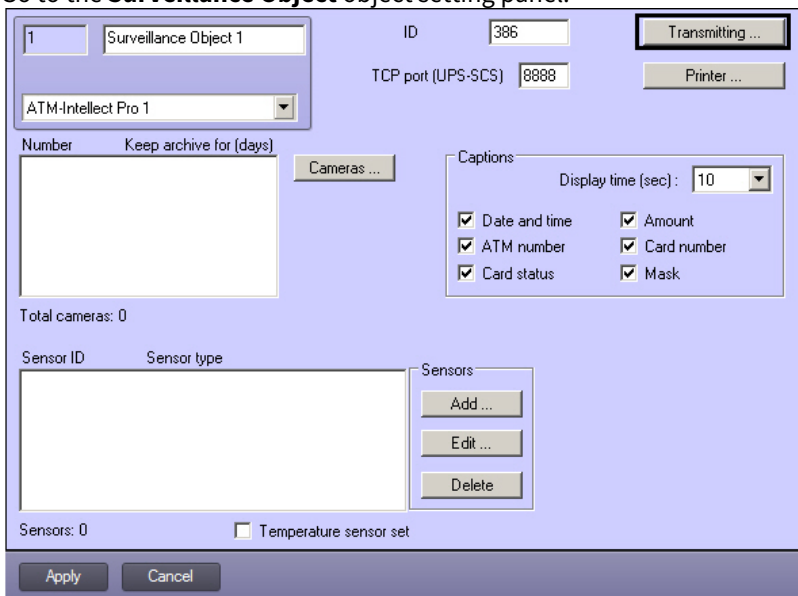
### 8.4.3 Setting up a connection between ATM Intellect Pro and ATM Intellect Workstation

**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.



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

- 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).
- In the **Connection type** drop-down list select the type of transport interface. Can be either **TCP/IP** or **RS232** (2).
- If **RS232** is chosen for the **Connection type**, the **COM port number**, **COM port speed** and **COM port format** must be configured (3).
- If **TCP/IP** is chosen for the **Connection type**, indicate the parameters for connection with *ATM-Intellect Workstation* in this dialog box:
  - If an IP-address is used for connection, ensure the **Use DNS instead of IP** checkbox is not set (4) and indicate the **IP address** and **TCP port** of *ATM-Intellect Workstation* (5).
  - If a domain name is used for connection, set the **Use DNS instead of IP** checkbox (1) and indicate the **DNS name** and **TCP port** of *ATM-Intellect Workstation* (2).

**Note.**  
The use of domain name for connection allows to avoid *ATM-Intellect Pro* resetting in case of *ATM-Intellect Workstation* IP-address change.

7. 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.
8. 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](#)
9. Click **OK** (7).

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

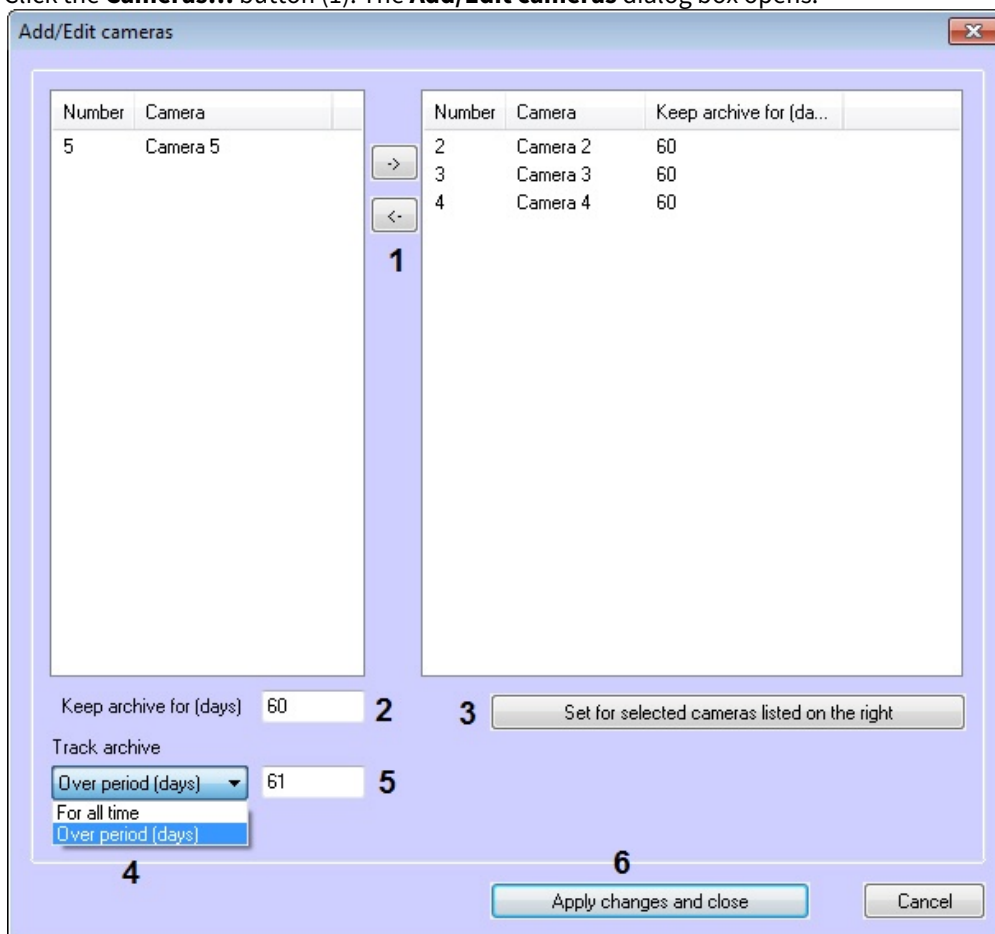
## 8.4.4 Configuring video cameras list

To configure list of used video cameras do the following:

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

The screenshot shows the configuration window for a Surveillance Object. At the top, the object name is 'Surveillance Object 1' with ID '386' and TCP port '8888'. There are buttons for 'Transmitting...' and 'Printer...'. Below this is a dropdown menu for 'ATM-Intellect Pro 1'. The main area is divided into several sections: a table for cameras (currently empty), a 'Captions' section with a 'Display time (sec): 10' dropdown and checkboxes for 'Date and time', 'ATM number', 'Card status', 'Amount', 'Card number', and 'Mask', and a 'Sensors' section with 'Add...', 'Edit...', and 'Delete' buttons. At the bottom, it shows 'Total cameras: 0', 'Sensors: 0', and a 'Temperature sensor set' checkbox. The window has 'Apply' and 'Cancel' buttons at the bottom.

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. Set the archive tracking time period (4): **For all time** or **Over period (days)**. When **Over period (days)** is selected, the (5) field is enabled to specify the number of days.

**Note.**

If **For all time** is selected, the algorithm of decision-making on an alarm for all time is used, even when the video archive is empty.

If **Over period (days)** is selected, the value entered in field (5) must be greater than or equal to the archive storage time + 1 day.

To take into account the regular voids in the archive, the number of days in the tracking period should be increased by the maximum number of days of regular voids during the archive storage.

10. Click **Apply changes and close** button (6).

**Note.**

Video camera and Captioner ID numbers must be whole integers.

Configuring cameras list is completed.

### 8.4.5 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".

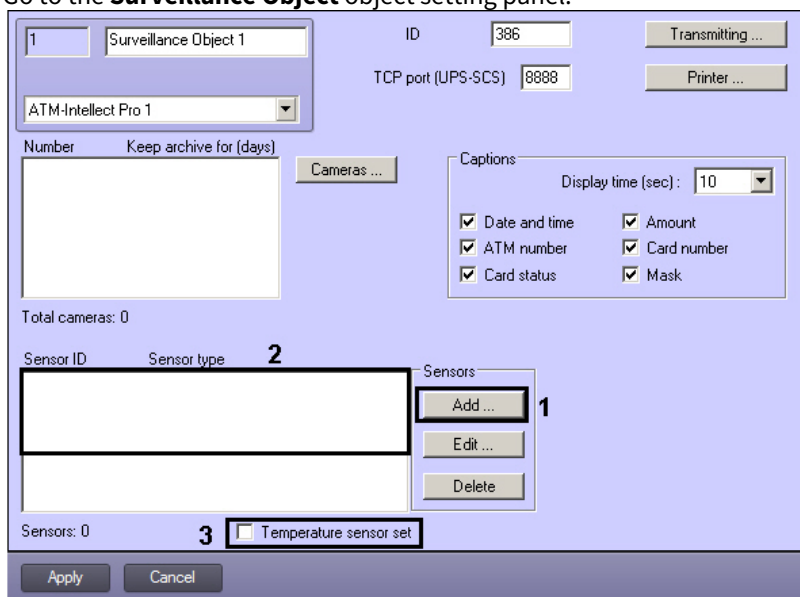
**Note.** Before configuring the sensors list, create and configure all required **Sensor** objects in the Intellect software. Connecting, creating and configuring of sensors are described in the document [INTELLECT software package. Installing and configuring security system components guide](#).

**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.

The dialog box for adding a sensor is shown with the following configuration:

- 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: Max
- 11.  captioning
- 12. Show for (sec): 5
- 13. OK button

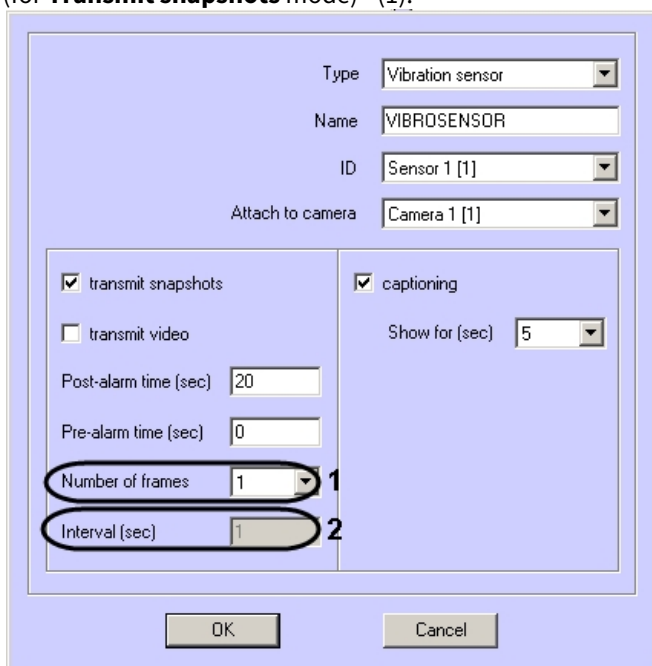
3. In the **Type** drop-down list select a type of sensor from the 16 types described previously (1).
- In the **Name** field enter the text which will be sent to *ATM Intellect Workstation* together with an alarm message (2). This text will be overlaid on the video camera image during the subtitling process.
  - In the **ID** drop-down list select the **Sensor** object that has been previously created in *Intellect* (3).
  - In the **Attach to camera** drop-down list select a **Camera** object that has been previously created in *Intellect* (4).
  - 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.

- 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).
- 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.
- 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.

- 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).



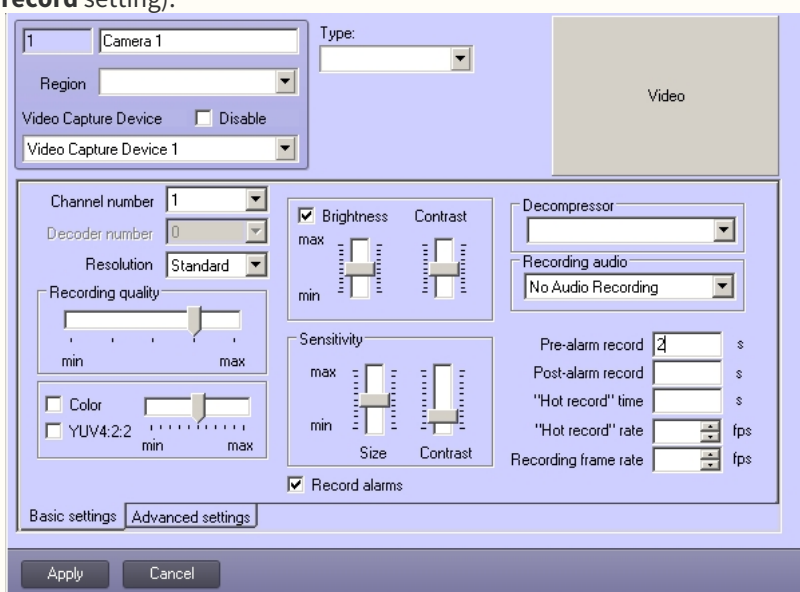
- In the **Interval (sec)** field enter the interval, in seconds, between video frames if more than one frame is being transmitted (2). This means that when an alarm occurs, *ATM Intellect Workstation* can receive a whole series of frames that are dispersed over time, which increases the likelihood of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



- 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 (1). 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** field enter the speed of transmission of the video fragment (for **Transmit video** mode) - (2).
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.

## 8.4.6 Configuring captioning

### 8.4.6.1 Setting information contained in captions

To set information which should be displayed in captions, as well as time of captions 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 be 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.

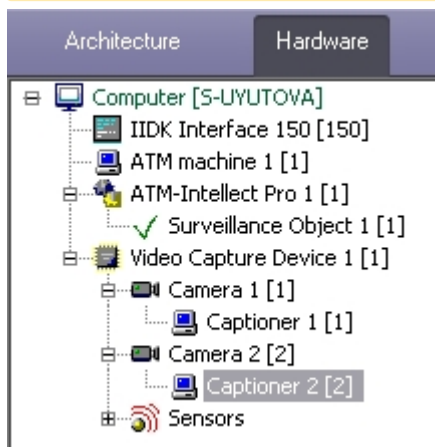
Setting information contained in captions is completed.

### 8.4.6.2 Setting up the Captioner object

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

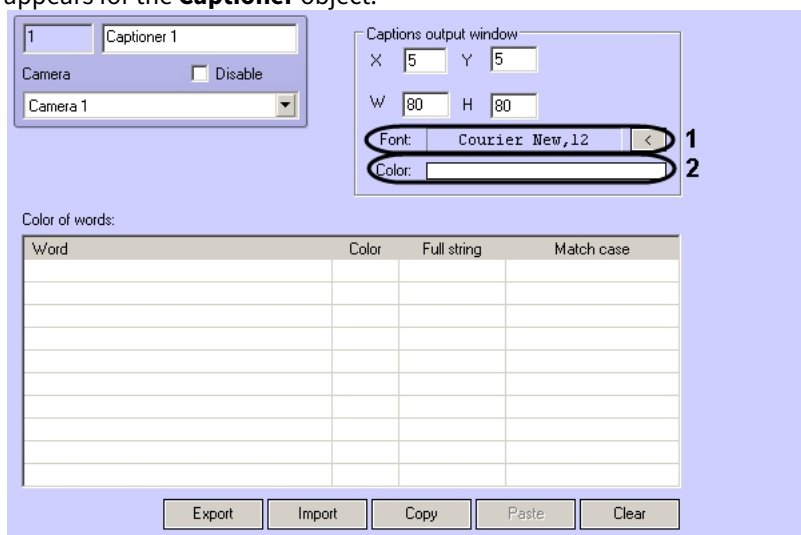
**Attention!**

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

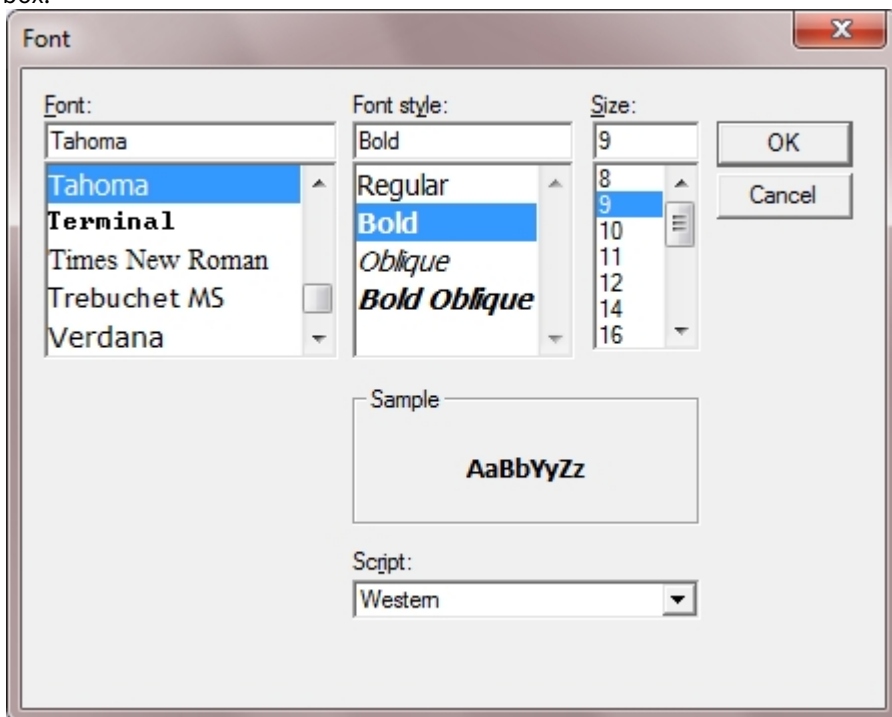


To configure the font and location of captions on the screen do the following:

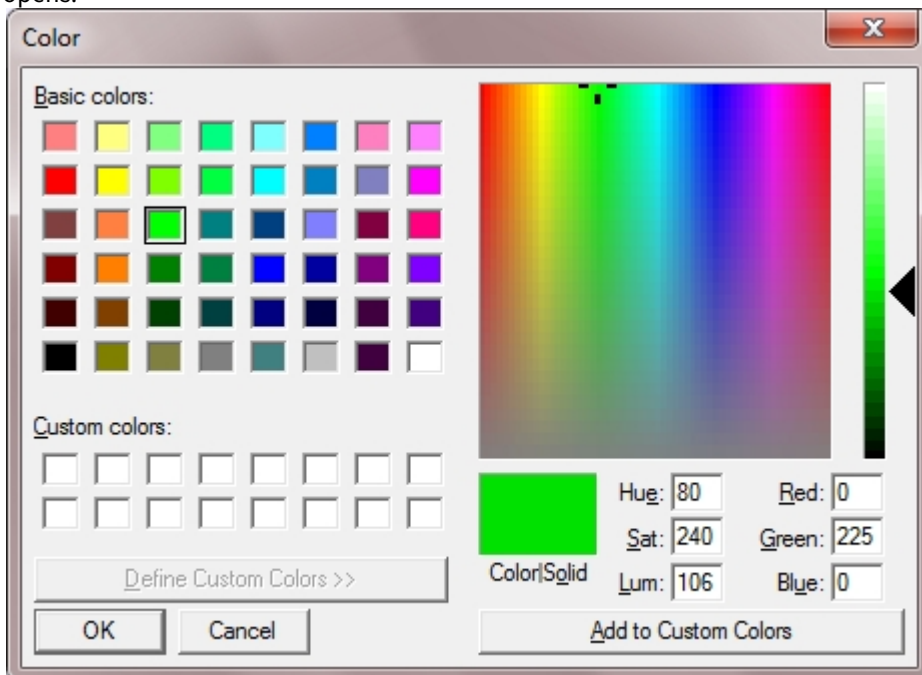
1. In the settings tree, left-click the corresponding **Captioner** object. On the right side of the screen, a configuration panel appears for the **Captioner** object.



- 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.



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



### 8.4.6.3 Setting up ATM receipts captioning

If a receipt printer is connected to a computer with *ATM-Intellect Pro* installed, then ATM receipts can be placed as captions over the camera video image.

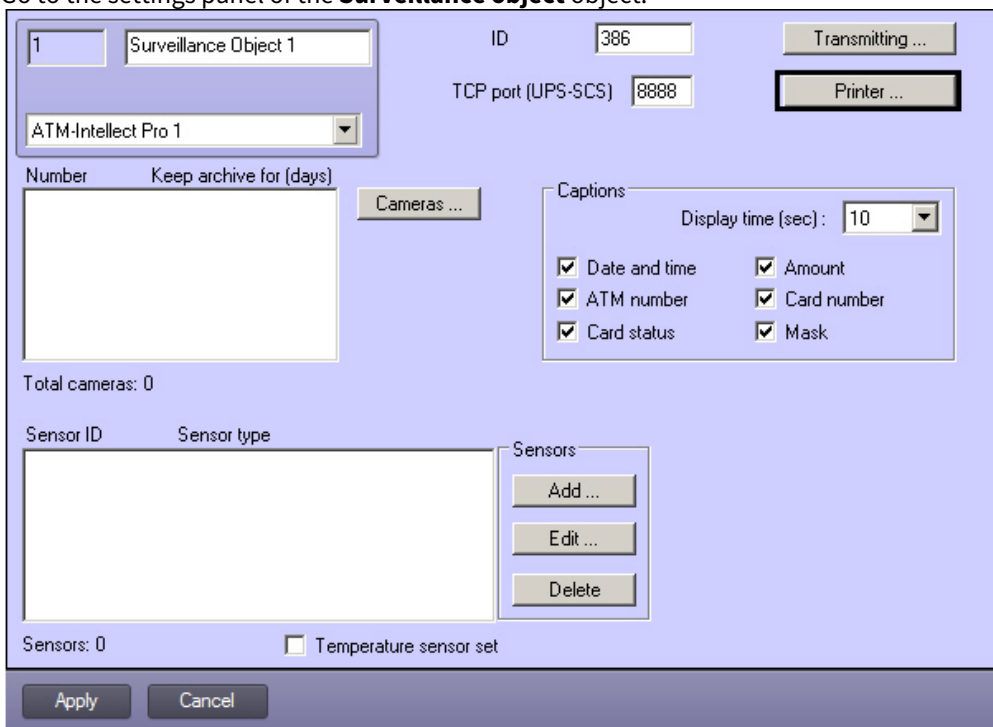
**Note.** ATM receipts captioning is supported for the following receipt printers: CUSTOM VKP-80II-UE-EM00041.

Each surveillance object can interact with a separate receipt printer while several surveillance objects can interact with corresponding receipt printers simultaneously.

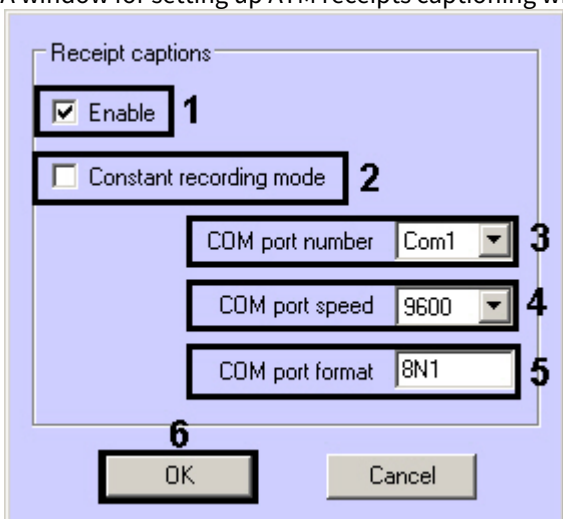
**Note.** The **Surveillance object** transfers to the *Intellect* core the **Receipt print start** or **Receipt print stop** events when the receipt printout is started or stopped, correspondingly.

ATM receipts captioning is configured as follows:

1. Go to the settings panel of the **Surveillance object** object.



2. Click **Printer...**
3. A window for setting up ATM receipts captioning will be opened.



4. Set the **Enable** checkbox (1).
5. Configure starting recording on camera depending on the recording mode:
  1. If cameras bound to the Surveillance object operate in continuous recording mode, set the **Constant recording mode** checkbox (2). In this case captioning will be performed in the following order:
    - When the receipt beginning is detected, captions are placed over the video for all cameras for which ATM events

captioning is enabled.

- 2 seconds after the receipt ending is detected, captioning stops and the screen is cleared of captions.

2. If cameras binded to the Surveillance object do not operate in continuous recording mode, uncheck the **Constant recording mode** checkbox (2). In this case captioning will be performed in the following order:
  - When the receipt beginning is detected, recording starts for all cameras for which ATM events captioning is enabled.
  - Captions are placed over the video for all of these cameras.
  - 2 seconds after the receipt ending is detected, captioning stops and the screen is cleared of captions.
  - Recording for all of these cameras stops.
- Select the COM port number from the **COM port number** dropdown list (3).
- Select speed for data exchange over COM port from the **COM port speed** dropdown list (4).
- In the **COM port format** field specify the COM port format (5):
  1. first digit: 5 to 9 data bits;
  2. second letter: **N** (No parity) – no parity bit, **E** (Even parity) – even parity bit, **O** (Odd parity) – odd parity bit;
  3. third digit: 1 or 2 stop bits.
- Click **OK** (6). A window for setting up ATM receipts captioning will be closed.
- Click **Apply**.

ATM receipts captioning is now configured.

## 8.5 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.

### 8.5.1 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 for 32-bit OS ("HKLM\SOFTWARE\Wow6432Node\BitSoft\VHOST\VHostService" for 64-bit) 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.

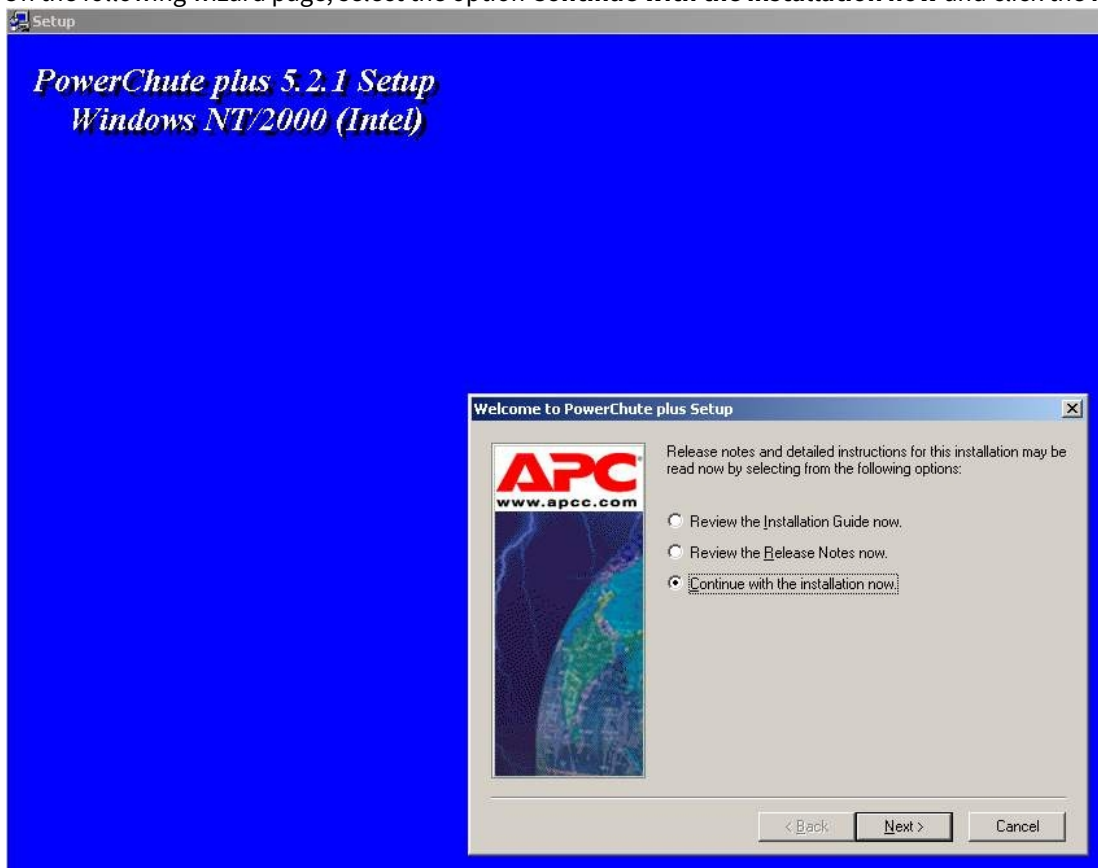
### 8.5.2 Installation of software supplied by the UPS vendor

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:

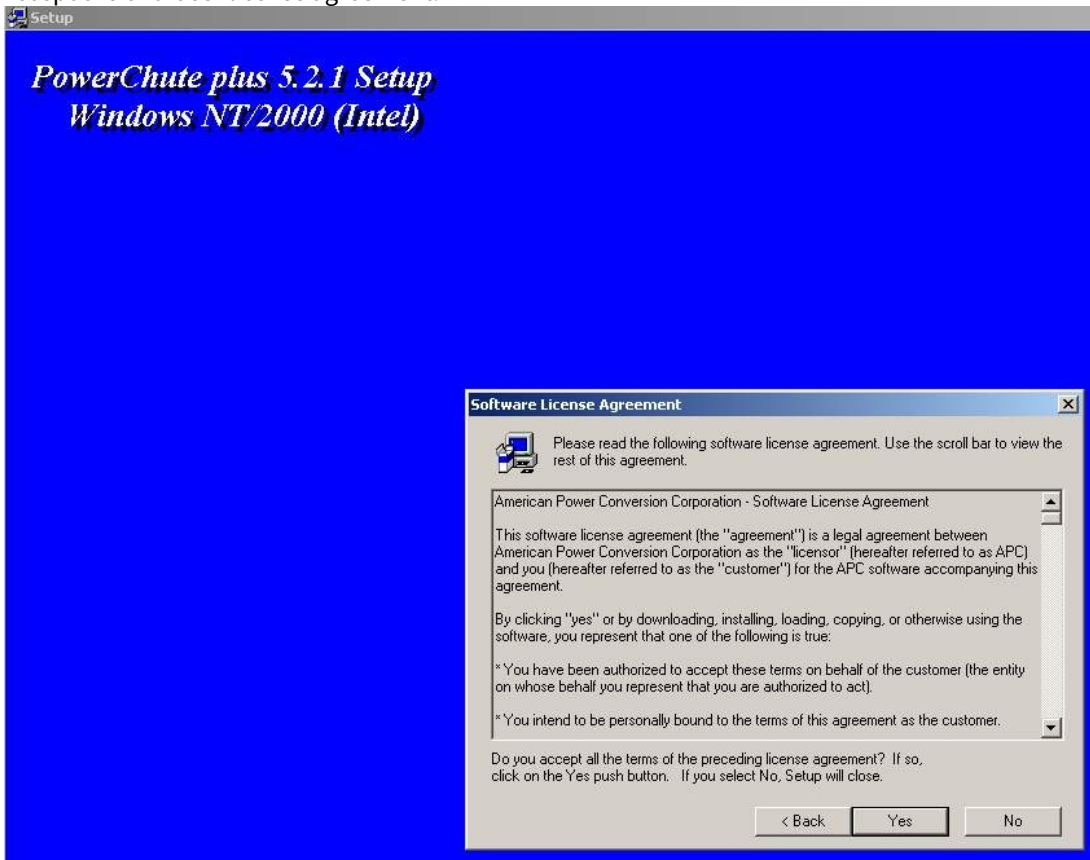
1. To start the installation process, start the file pc521.exe. Installation starts.



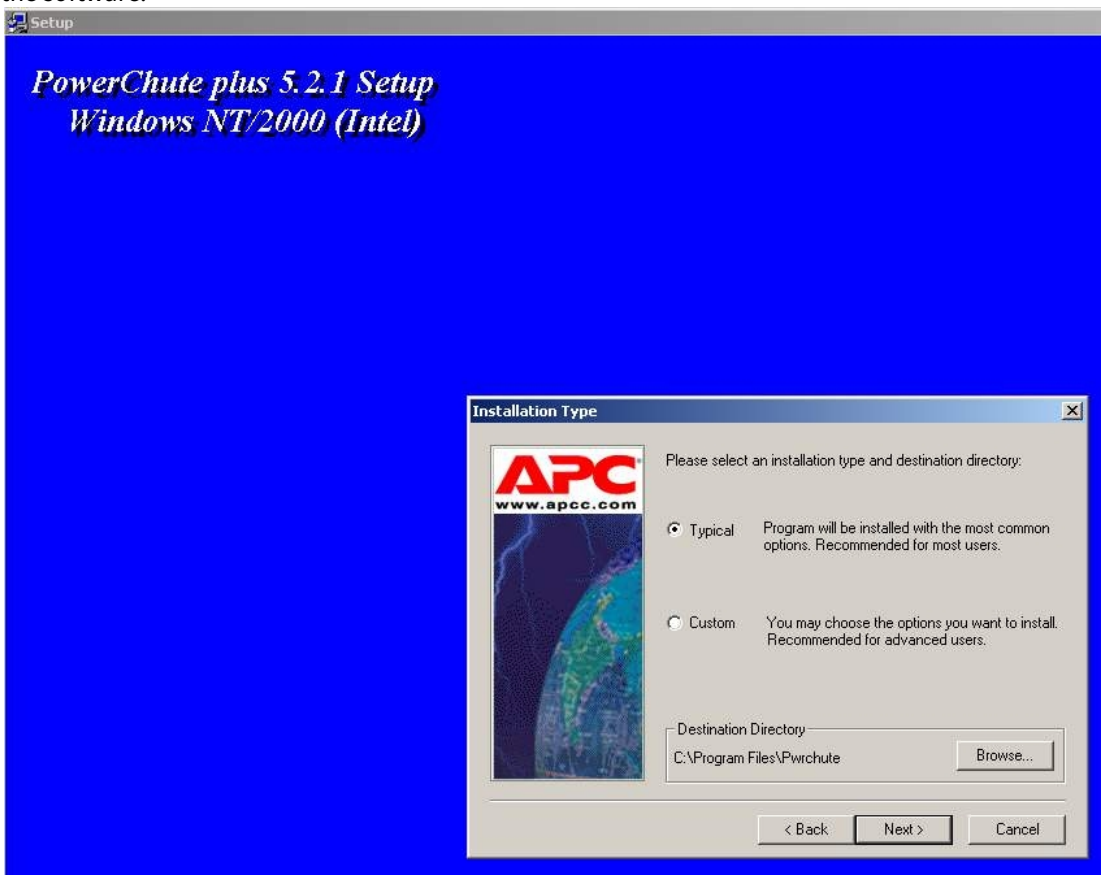
2. On the following wizard page, select the option **Continue with the installation now** and click the **Next** button.



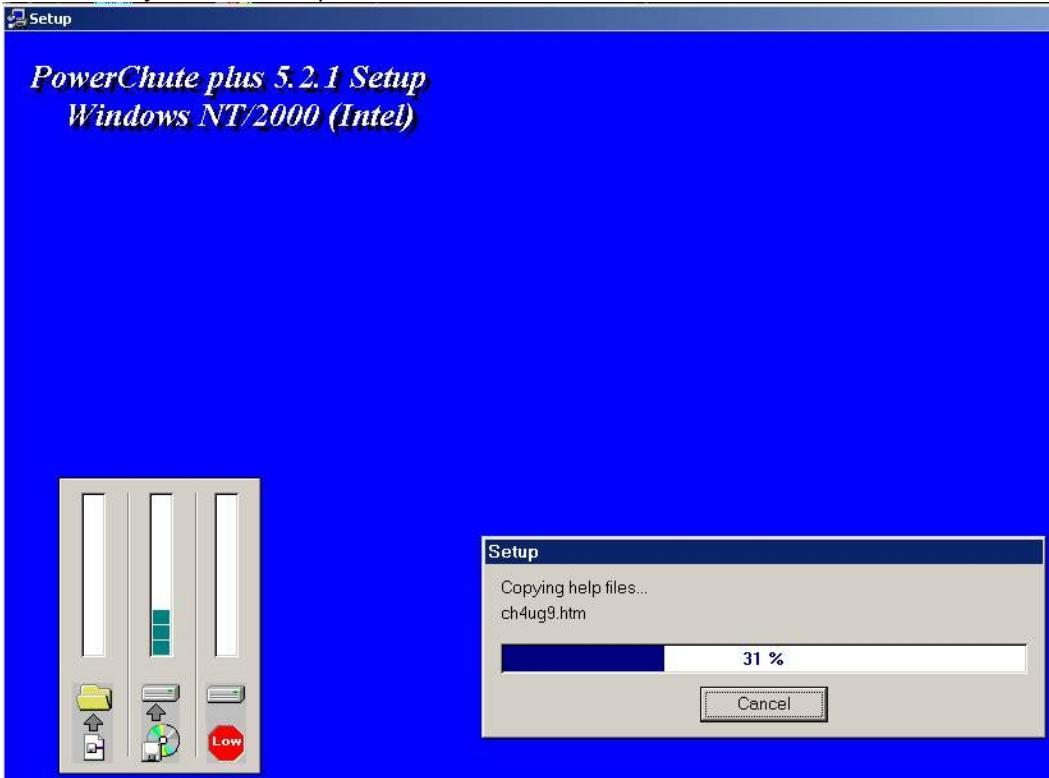
- 3. Accept the end-user license agreement.



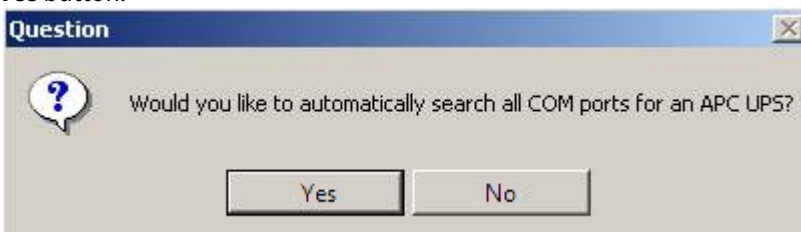
- 4. On the following page of the wizard select the **Typical** installation type and indicate the path at which you want to install the software.



5. The necessary files will be copied.



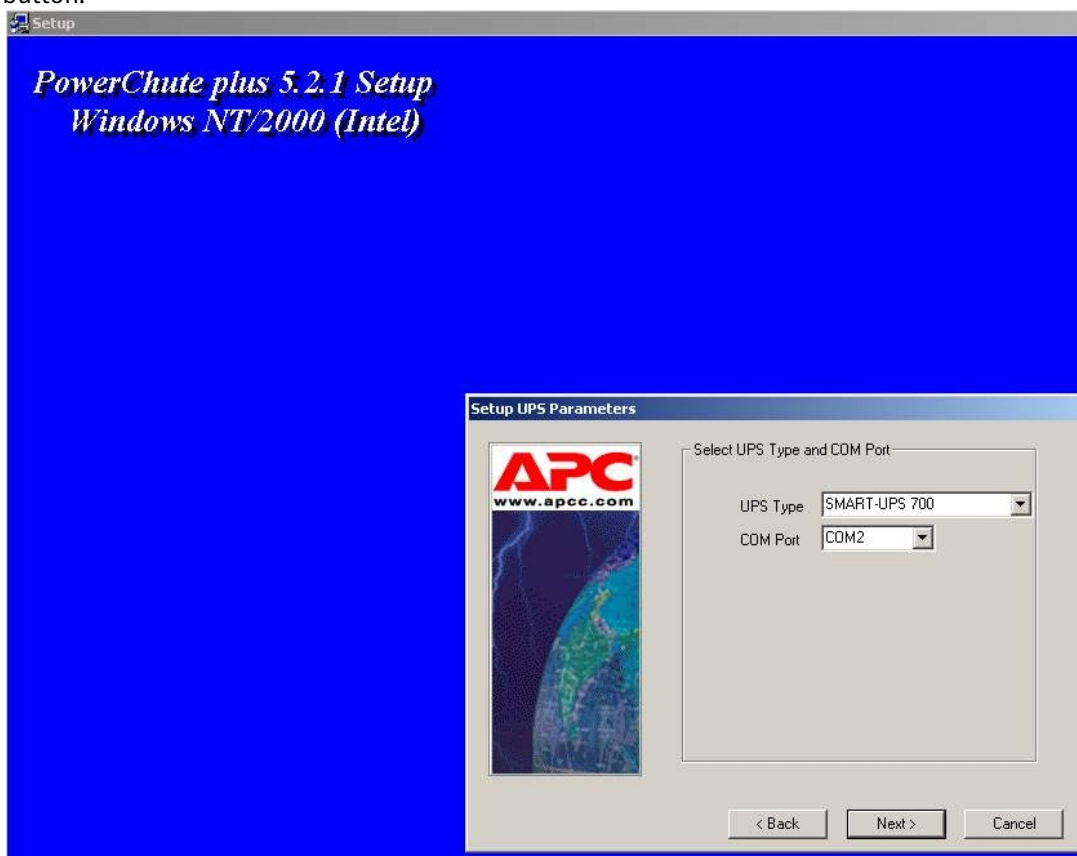
6. You are asked whether you want the program to automatically detect the COM port on which the UPS is located. Click the **Yes** button.



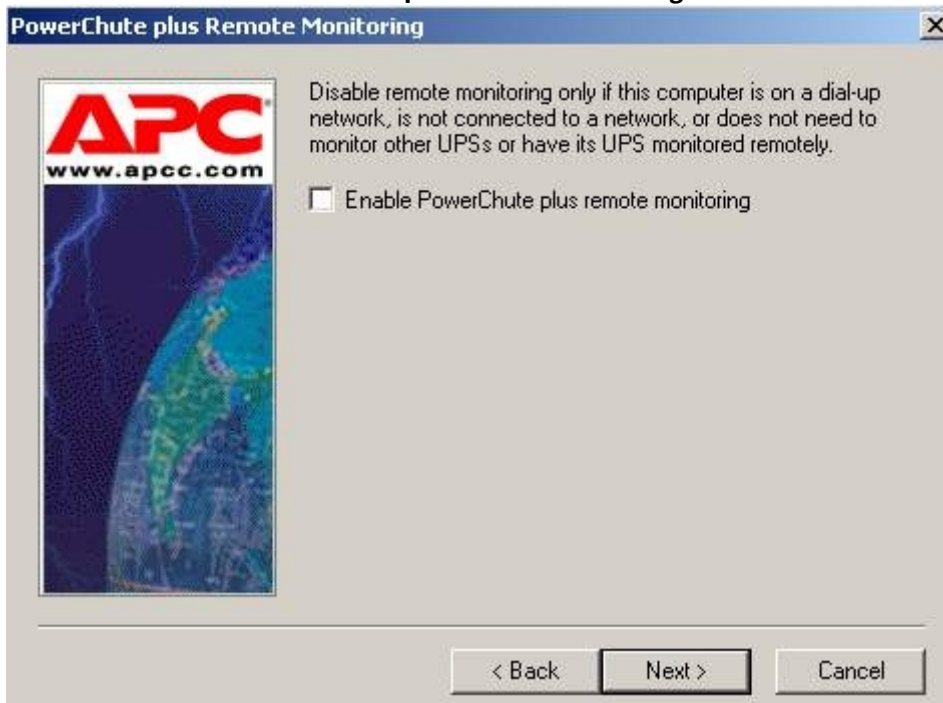
7. Search begins.



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.

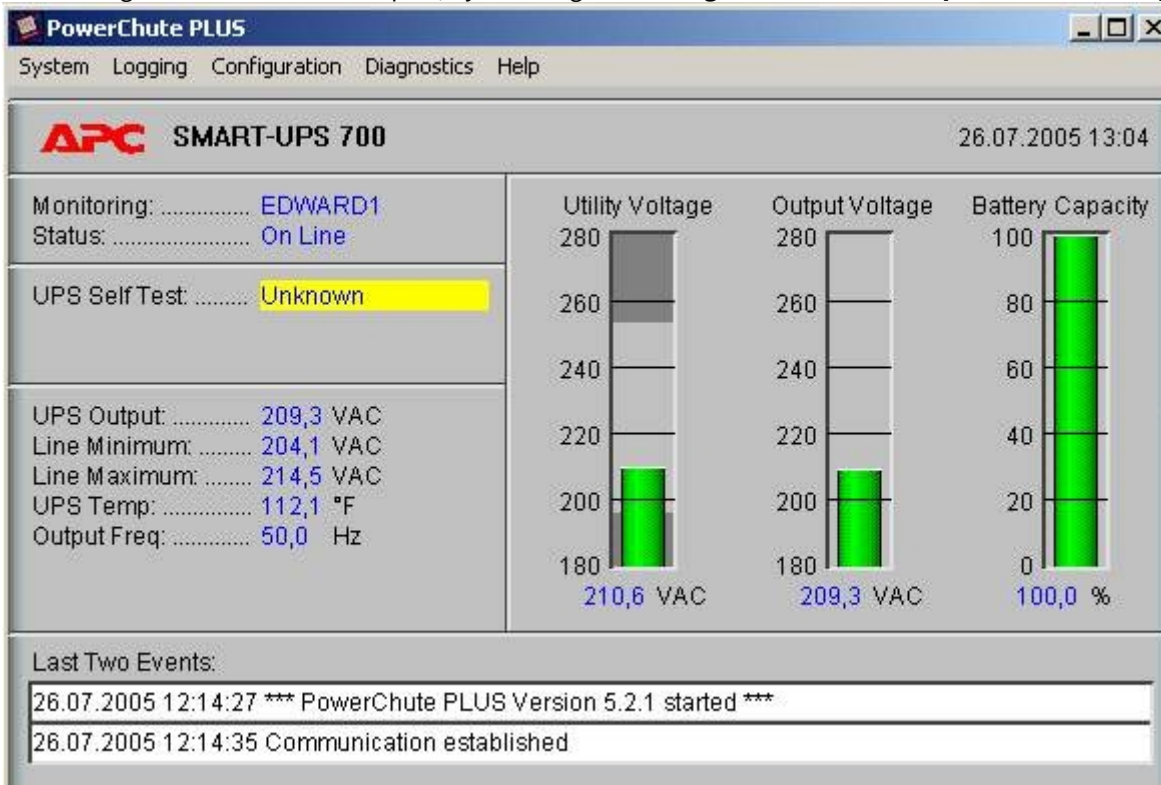
### 8.5.3 Configuring PowerChute plus utility

**Note.**

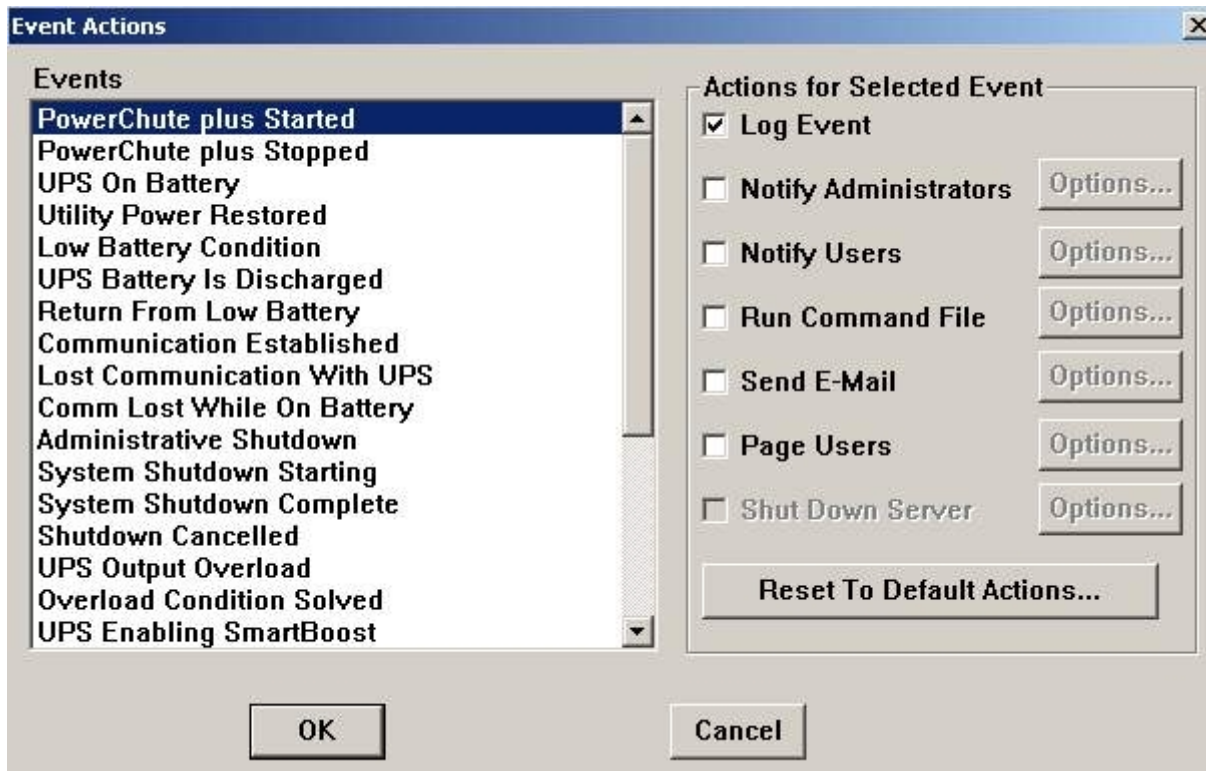
The PowerChute utility configuring process is given in this document as an example. Alternative software can have different settings. Alternative software must allow binding certain reactions with UPS events.

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	<b>PowerChute Started</b>	PowerChute service started
1001	<b>PowerChute Stopped</b>	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

ID Code	Event Name	Description
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

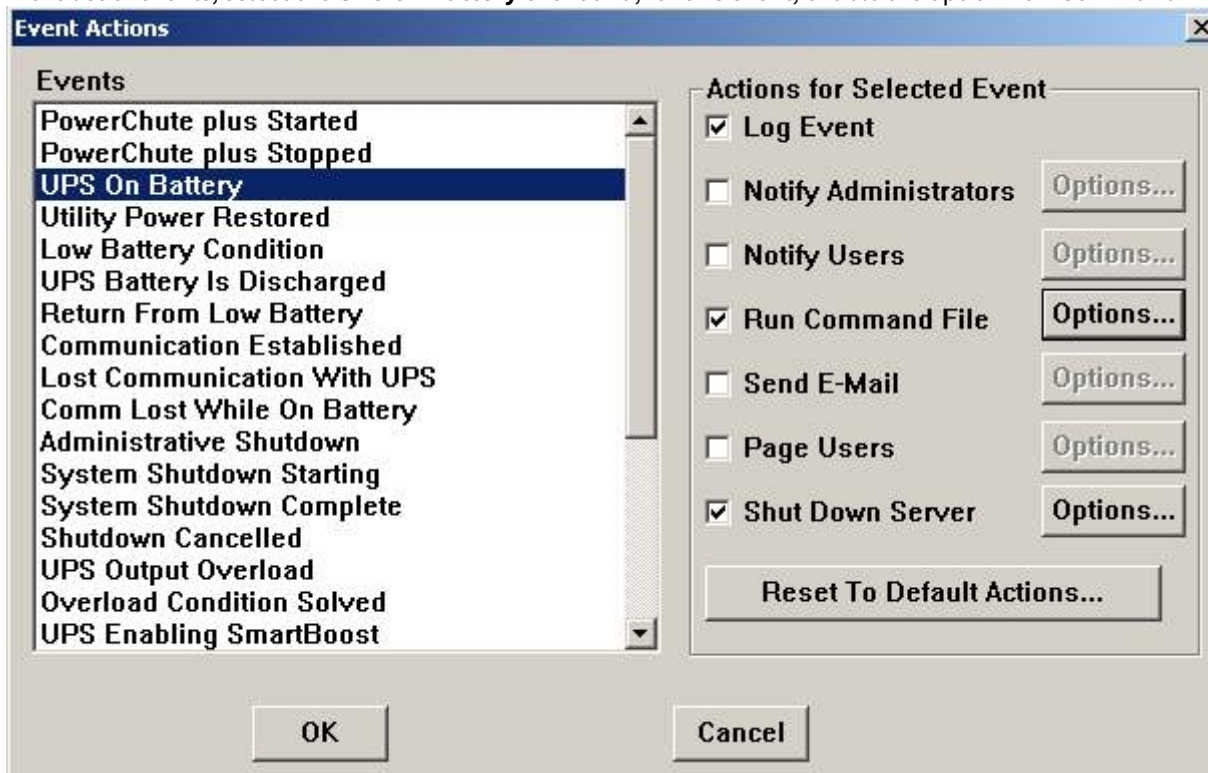
This basic set can be useful for Back-UPS product series that do not support invoking subprograms from the command line.

## 8.5.4 Example of configuring events notifying

Let us consider the following situation: electrical power supply has switched off and the UPS has switched to battery mode (ID Code = 2000), and electrical power supply has been restored a while later (ID Code = 1003).

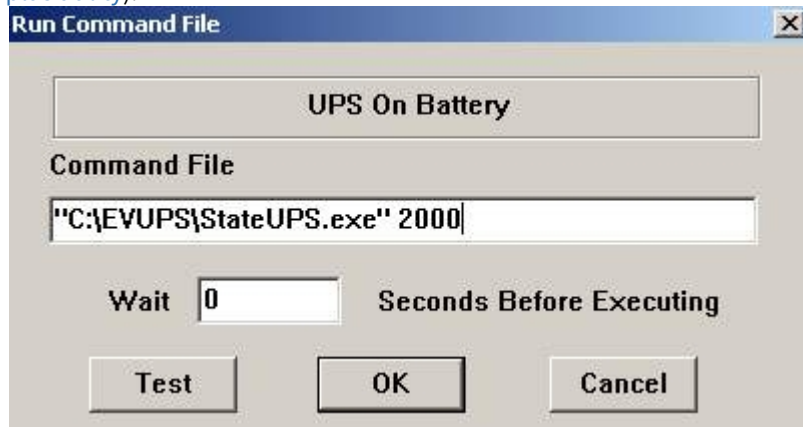
In this case to configure events notifying do the following:

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

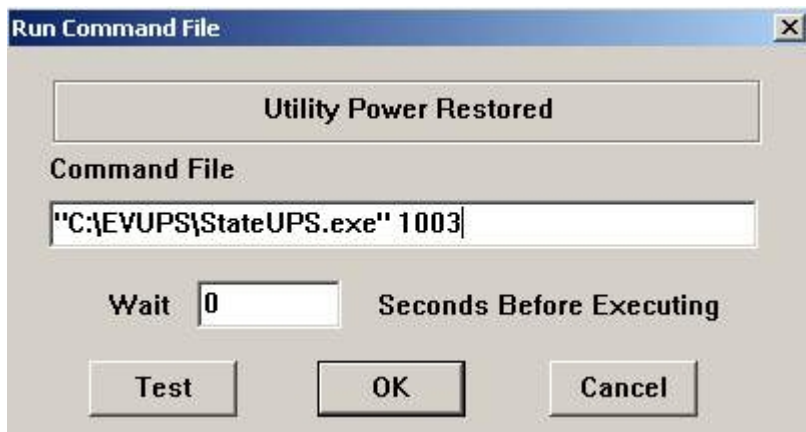
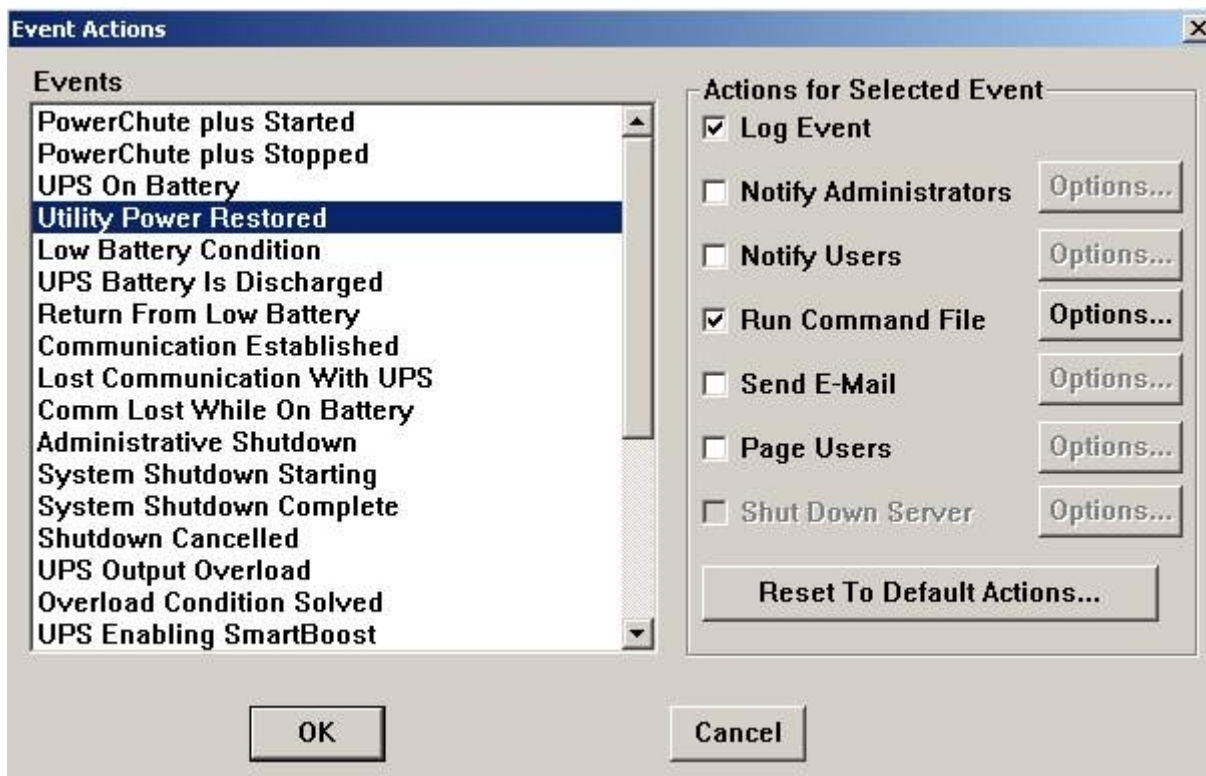


2. To the right of the **Run Command File** line, click the **Options...** button. In the dialog box that appears, indicate the full path to the StateUPS utility, which has to start whenever this event occurs. Enclose the path in double quotes. Type a space and then indicate the ID code for the UPS On 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 <Intellect installation>\Vhost\UPS folder, with a name resembling:

upslog\_<state>\_<date>\_<time>.log

## 8.6 Integration with the Gold crown

### On the page:

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

### 8.6.1 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 following file:

- vmon\_itv\_x86.reg for 32-bit OS
- vmon\_itv\_x64.reg for 64-bit OS

After running it, 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 for 32-bit OS («HKEY\_LOCAL\_MACHINE\SOFTWARE\Wow6432Node\ITV\AtmIntegration» for 64-bit).

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.

## 8.6.2 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.

## 8.7 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. The description of registry parameters required for configuring VPipe server and client is given below. It is also possible to set these parameters with the following files that can be found in an archive with integration modules:

- `VPipe_x86.reg` for 32-bit OS

- VPipe\_x64.reg for 64-bit OS

VPipe client parameters description (registry section HKEY\_LOCAL\_MACHINE\SOFTWARE\BITSoft\VPipe\VPipeClient for 32-bit OS, HKEY\_LOCAL\_MACHINE\SOFTWARE\Wow6432Node\BITSoft\VPipe\VPipeClient for 64-bit) is given in the table.

Name	Type	Default value	Description
PortPDV	DWORD	7777	ATM-Intellect Workstation port to which VPipe client connects
PortLVOS	DWORD	8555	VPipe server port to which VPipe client connects
UsingDNS	String	0	Defines whether the AddressPDV parameter sets an IP address or DNS name of ATM Intellect Workstation
AddressPDV	String		If the UsingDNS = "0", the IP-address of ATM-Intellect Workstation is specified in the AddressPDV parameter If the UsingDNS = "1", the DNS-name of ATM-Intellect Workstation is specified in the AddressPDV parameter
AddressLVOS	String		IP-address of VPipe server
TmoConnectPDV	DWORD	5	Interval in seconds between attempts to connect to ATM-Intellect Workstation
TmoConnectLVOS	DWORD	5	Interval in seconds between attempts to connect to ATM-Intellect Pro
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 ATM-IntellectPro (sec.)
TmoPassivePDV	DWORD	120	Allowed time of inactivity on the socket with ATM-Intellect Workstation (sec.)
TmoMonitorTimer	DWORD	120	Interval between attempts to send the monitoring package to ATM-Intellect Workstation (sec.)

VPipe server parameters description (registry section HKEY\_LOCAL\_MACHINE\SOFTWARE\BITSoft\VPipe\VPipeSrv for 32-bit OS, HKEY\_LOCAL\_MACHINE\SOFTWARE\Wow6432Node\BITSoft\VPipe\VPipeSrv for 64-bit) is given in the table.

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

RunAsService	String	0	0 – VPipe server does not start as a service. 1 – if the VRecover module has started, it will run the VPipe server.
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## 8.8 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](#). 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](#).

## 8.9 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:

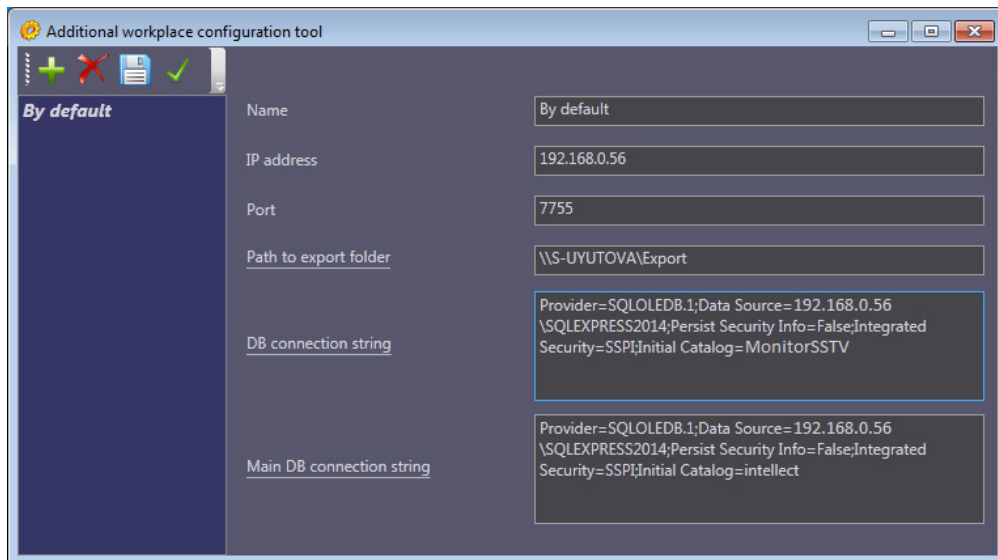
1. The user must have full access to the *ATM-Intellect Pro* registry section:  
HKEY\_LOCAL\_MACHINE\Software\BitSoft for 32-bit system  
(HKEY\_LOCAL\_MACHINE\Software Wow6432Node\BitSoft for 64-bit).
2. The user must have full rights for the folder <DISK>:\Backup, where <DISK> is the logical disc where Intellect software is installed.

## 9 Additional workplace configuration

*Additional workplace* can operate with only one *ATM-Intellect Workstation* at a time. However, the list of available *ATM-Intellect Workstations* can be configured and the active *ATM-Intellect Workstation* can be selected. For this use the *Additional workplace configuration tool*. The tool can be run as follows:

1. Click **Start -> All Programs -> Intellect > ATMIntellect -> Additional workplace configuration tool**.
2. Use the *ARMSelector.exe* executable file, located in the <Intellect installation directory>\VHost\SYSTEM\ folder.

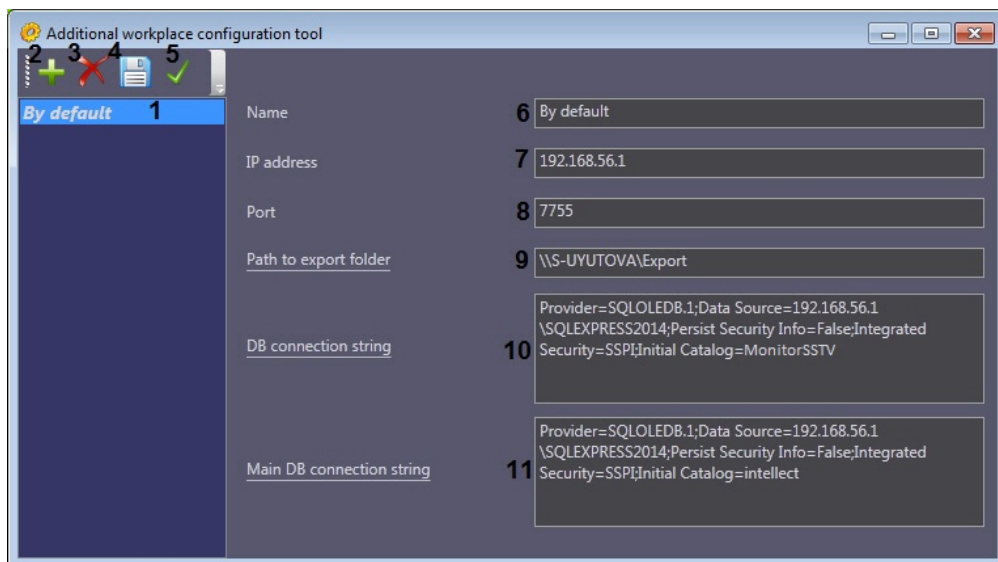
The tool is shown in the figure.



See [Interface of Additional workplace configuration tool](#) for parameters description.

### 9.1 Interface of Additional workplace configuration tool

Interface elements of *Additional workplace configuration tool* are described in the table.



#	Name	Method of setting the parameter value	Default value	Description
1	List of ATM-Intellect Workstations	The <b>Add</b> , <b>Remove</b> and <b>Set as active</b> buttons	By default there is the <i>ATM-Intellect Workstation</i> in the list. It is named <b>By</b>	Displays the list of existing <i>ATM-Intellect Workstations</i> . An active <i>ATM-Intellect Workstation</i> .

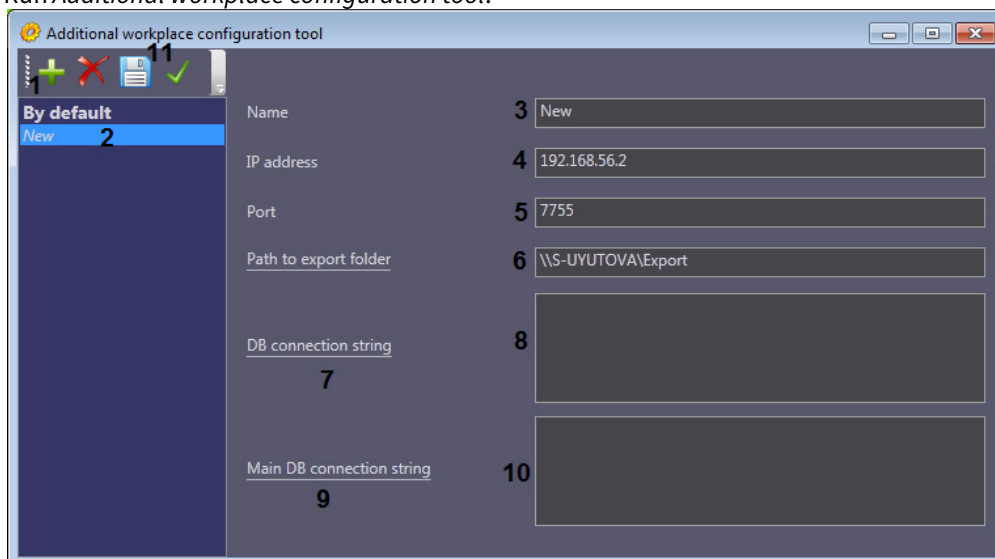
			<b>default</b> and is created during installation.	<i>Intellect Workstation</i> is highlighted in bold.
2	The <b>Add</b> button	Click the button	-	Adding a new <i>ATM-Intellect Workstation</i> to the list.
3	The <b>Delete</b> button	Click the button	-	Deleting a selected <i>ATM-Intellect Workstation</i> from the list.
4	The <b>Save</b> button	Click the button	-	Saving the changes
5	The <b>Set as active</b> button	Click the button	-	Setting an active <i>ATM-Intellect Workstation</i> .
6	The <b>Name</b> field	<i>Enter a value in the field</i>	See #1. When a new <i>ATM-Intellect Workstation</i> is added to the list it is named <b>New</b> by default.	Setting a name for <i>ATM-Intellect Workstation</i> . This name is used only in this tool.
7	The <b>IP address</b> field	<i>Enter a value in the field</i>	127.0.0.1  Important! The value of this parameter is to be changed according to the IP address of the <i>ATM-Intellect Workstation</i> .	Setting the IP address to connect to VideoSrv module.
8	The <b>Port</b> field	<i>Enter a value in the field</i>	7755	Setting a port to connect to VideoSrv module. The port used by the <i>ATM-Intellect Workstation</i> is specified on the settings panel of the corresponding object when setting the <i>ATM-Intellect Workstation</i> – see <a href="#">Setting the ATM-Intellect Workstation connection parameters</a> section.
9	The <b>Path to export folder</b> field	The <b>Path to export folder</b> link or <i>enter a value in the field</i>	-	Setting a path to the network folder on the <i>ATM-Intellect Workstation</i> where there are archive files requested from the <i>ATM-Intellect Pro</i> .
10	The <b>DB connection string</b> field	The <b>DB connection string</b> link	-	Setting the <i>ATM-Intellect Workstation</i> DB connection string. The Data Link Properties box appears when clicking the <b>DB connection string</b> link.
11	The <b>Main DB connection string</b> field	The <b>Main DB connection string</b> link	-	Setting the base <i>Intellect</i> DB connection string. The Data Link Properties box appears when clicking the <b>Main DB connection string</b> link.


## 9.2 Adding ATM-Intellect Workstation to the list

By default the *ATM-Intellect Workstation* (named “By default”) is added to Additional workplace configuration right after installation of *Monitoring* software package. Its settings are the same as those specified during installation (see [Installation steps for Additional workplace](#) section).

Add a new *ATM-Intellect Workstation* to the list as follows:

1. Run *Additional workplace configuration tool*.



2. Click the  button (1).
3. A new *ATM-Intellect Workstation* is added to the list (named **New**) (2).
4. Rename the *ATM-Intellect Workstation* if necessary (3).

**Note.**

This name is used in the *Additional workplace configuration tool* only.

5. Specify the IP address of computer where VideoSrv module is run (4).
6. Specify the VideoSrv module connection port (5).

**Note.**

The port used by the *ATM-Intellect Workstation* is specified on the settings panel of the corresponding object when setting the *ATM-Intellect Workstation* – see [Setting the ATM-Intellect Workstation connection parameters](#) section.

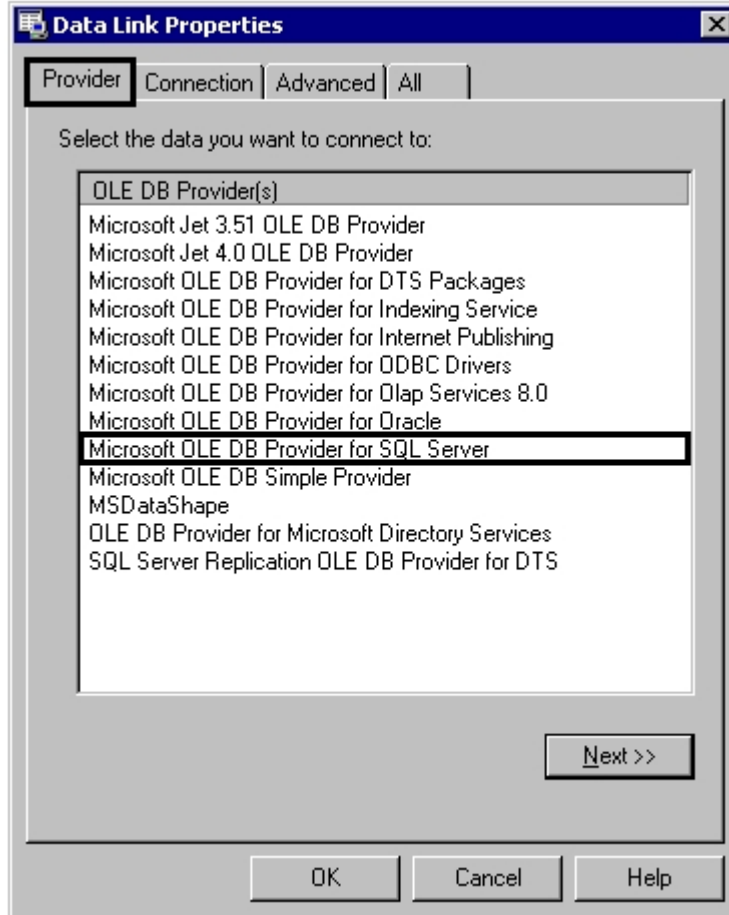
7. Specify the path to network folder on the *ATM-Intellect Workstation* where there are archive files requested from the *ATM-Intellect Pro* (6). A standard **Browse for Folder** dialog box appears when clicking the **Path to export folder** link. Select a required folder.

**Note.**

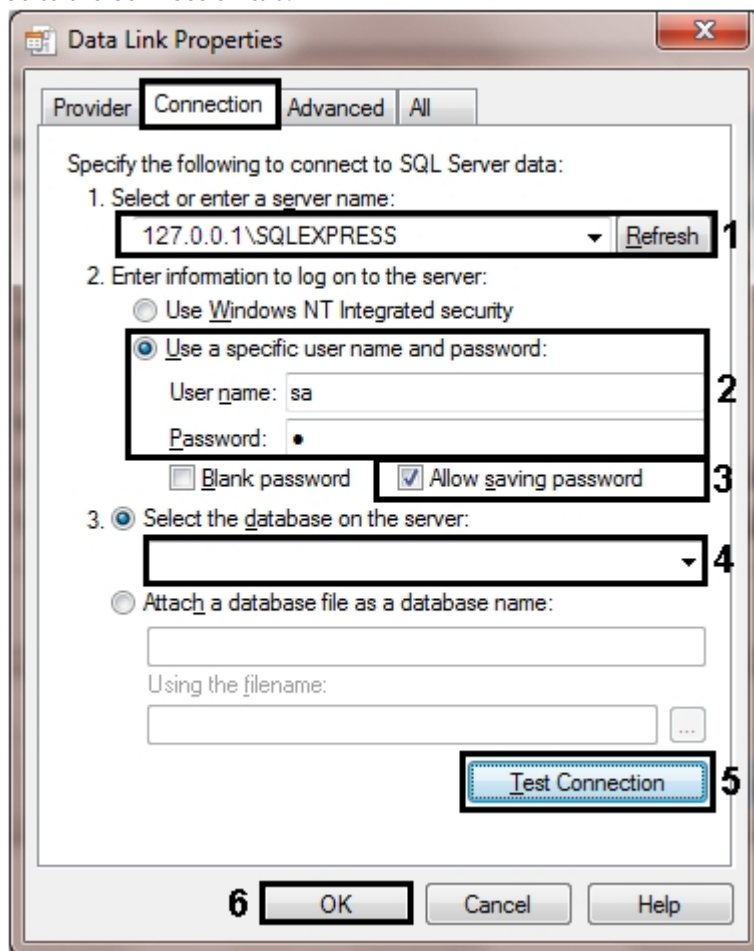
By default the folder (Export folder) on the *ATM-Intellect Workstation* where the snapshots and videos are stored is located at DISK:\Export\, where DISK is a disk with installed OS. You can edit the folder by editing the **ExportPath** registry value in the HKLM\Software\BITSoft\VHost\VHostService section for 32-bit OS (HKLM\Software\Wow6432Node\BITSoft\VHost\VHostService for 64-bit).

8. Click the **DB connection string** link. The **Data Link Properties** box appears. Configure DB connection to remote *ATM-Intellect Workstation* as follows:

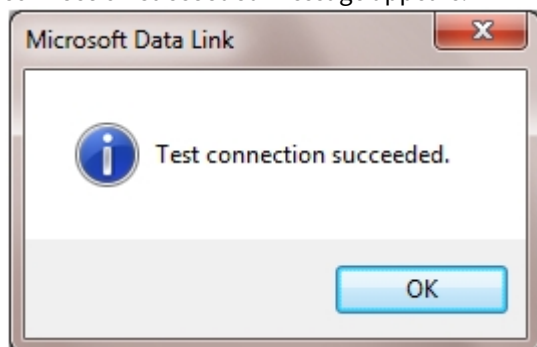
- a. Go to the **Provider** tab. Select **Microsoft OLE DB Provider for SQL Server**.



- b. Go to the **Connection** tab.




- c. In the **1. Select or enter a server name:** dropdown list select a name of DB server where the *ATM-Intellect Workstation* DB is stored (1).
- d. Set the **2. Enter information to log on to the sever:** to the **Use a specific user name and password:** position and specify the user name and password to connect to MS SQL Server (2).
- e. Select the **Allow saving password** check box (3).
- f. In the **Select the database on the server:** dropdown list select the name of the *ATM-Intellect Workstation* DB (4).
- g. Click the **Test Connection** button (5). If connection data is specified correctly, then the box with the **Test connection succeeded** message appears.



**Note.**

If there is the **Connection failed** message, then check if there is connection to the *ATM-Intellect Workstation* computer and if the server DB is configured correctly and then repeat steps 8.a-8.g.

9. Click the **OK** button(6).
10. The configured connection string is displayed in the text field (8).

- Click the **Main DB connection string** link (9). The **Data Link Properties** box appears. Configure DB connection to the base *Intellect* DB similarly to the *ATM-Intellect Workstation* (see steps 8.a-8.h). The configured connection string is displayed in the text field (10).
- Click the  button to save the changes (11).

**Note.**

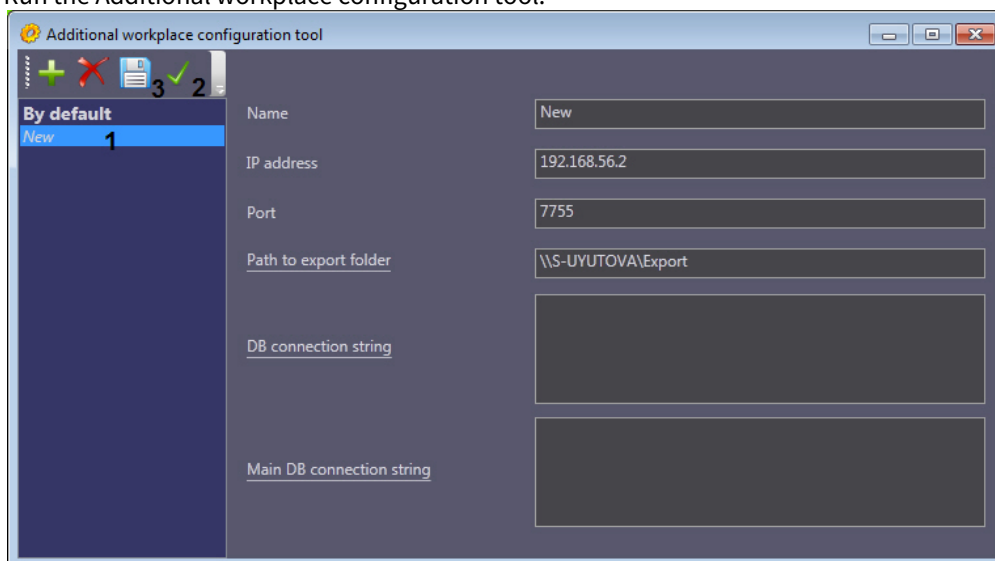
To remove *ATM-Intellect Workstation* in the list select it and click the  button.



*ATM-Intellect Workstation* is now added to the list.

### 9.3 Selecting active ATM-Intellect Workstation

Select an active *ATM-Intellect Workstation* used by the Additional workplace as follows:

- Run the Additional workplace configuration tool.



- Select the required *ATM-Intellect Workstation* in the list (1).
- Click the  button (2).
- Click the  button (3).

Active *ATM-Intellect Workstation* is now selected.

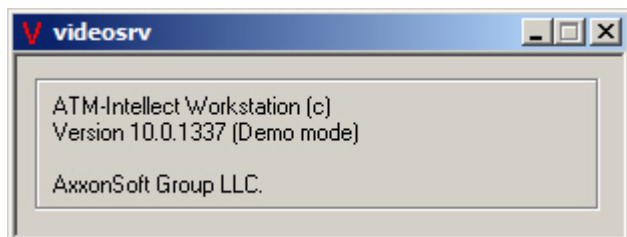
## 10 Data loader for Monitoring

### 10.1 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.

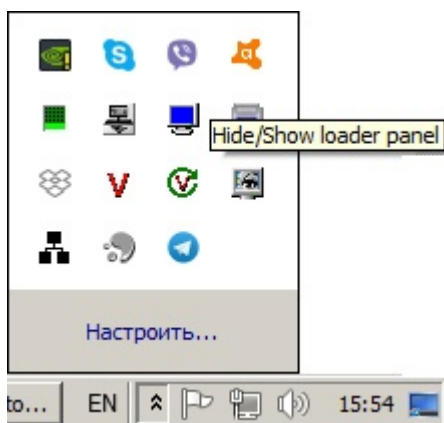


Double-click the checkmark to open the window shown in the figure.

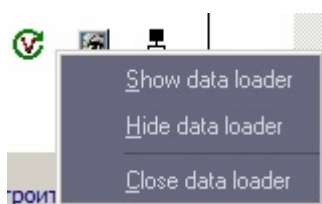


### 10.2 Data loader for Monitoring module

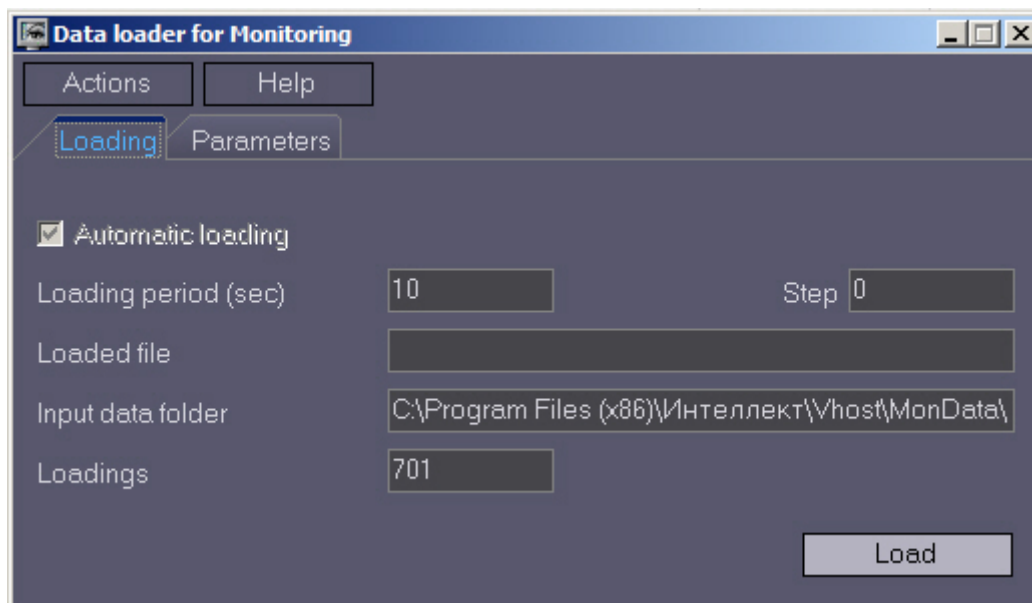
*Data loader for Monitoring* generates a badge representing this module is in the toolbar, in the lower-right corner of the screen.



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.

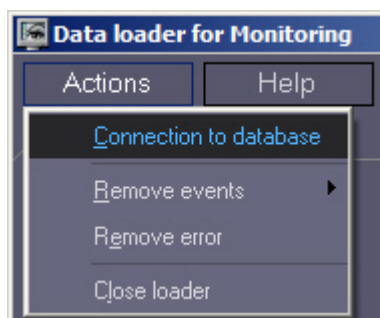


You can specify the following parameters in this window:

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.

### 10.3 Database connection

To configure the database connection string, select the **Connection to database** item in the **Actions** menu.

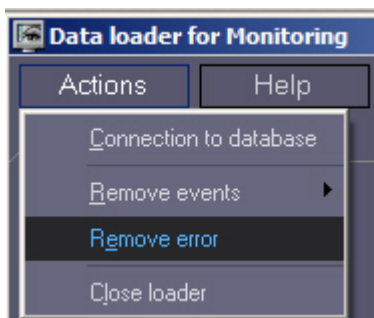


#### **Attention!**

If the location of the MonitorSSTV database changes from local to remote, then it is necessary to set the **0** value for the **UseBulkInsert** registry, if it changes from remote to local, then set the **1** value (for details, see [Registry keys reference guide](#), for more information about working with the registry, see [Working with Windows OS registry](#)).

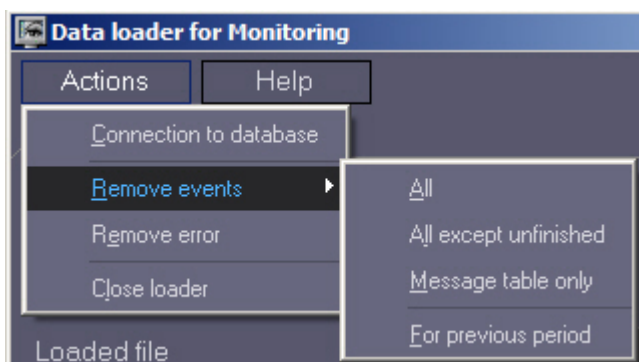
### 10.4 Removing error

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.



## 10.5 Removing events

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

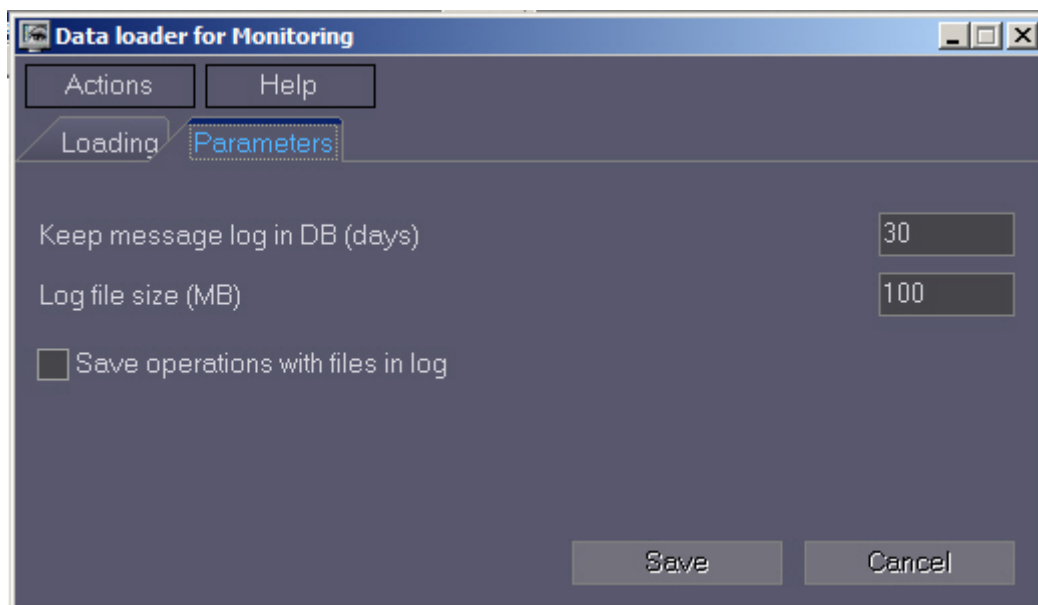


1. **All** – completely clear all alarm data
2. **All except unfinished** – completely clear events but leave information about the beginning of alarms that are ongoing (long alarms)
3. **Message table only** – clear the message log. Allows reducing the size of the database. The duration of time for 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.

## 10.6 Specifying the duration of the message log storing

The **Parameters** tab allows specifying the duration of time for which the *Data loader for Monitoring* 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.

## 10.7 Configuring automated video clip loading

To enable automated video clip loading, set the **FileQueryEnable** key in the Windows registry to 1 and specify folder to share data with third party system in the **FileQueryPath** key (see [Registry keys reference guide](#) for more details on the key and the [Working with Windows OS registry](#) section of *Intellect software. Administrator's Guide* for more details on how to operate registry keys). Restart the computer to ensure the changes applied.

### Note.

The **C:\Query\** folder is set by **FileQueryPath** key by default.

### Important!

Specify different folders in **FileQueryPath** key if automated video clip loading is enabled both on *Server of Control* and *Additional workplace* simultaneously.

### Note.

When *videosrv.exe communication module* starts at the *Server of Control*, the folder specified in the **FileQueryPath** key is automatically created with the following subfolders:

**In** – the folder for request files;

**In\Work** – the service folder for request files;

**OutSuccess** – the folder to place request files in after successful load of the video clips;

**OutError** – the folder for incorrect request files or request files with absent mandatory parameters;

**OutFail** – the folder to place correct request files in if video clip could not be loaded for some reason.

### Important!

At *Additional workplace*, create the folder specified in the **FileQueryPath** key with all subfolders described above manually.

## 11 ATM Intellect interface configuration

Interface objects are available at the *ATM Intellect Workstation*, *ATM Intellect Workstation TC*, and *Additional workplace* 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](#)..

### 11.1 Configuring the ATM Monitoring object

#### **Important!**

Before creating the **ATM-Monitoring** object, create and configure the **ATM-Intellect Workstation** or **ATM-Intellect Workstation TC** object depending on the installation type (see [Creating ATM-Intellect Workstation objects in the hardware tree](#) or [Creating ATM-Intellect Workstation TC objects in the hardware tree](#), correspondingly).

The **ATM Monitoring** object configuration is different for the *ATM Intellect Workstation* and the *ATM Intellect Workstation TC* objects.

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

1. Go to the **ATM Monitoring** settings panel.

2. If it is necessary to display the **Owner Panel** component on the screen, select the **Owner Panel** check box and specify the component coordinates the on-screen coordinates of the component (1).
3. If the **Control panel** displaying is needed, set the **Control panel** checkbox and specify its coordinates on the screen (2).
4. If the **Log panel** displaying is needed, set the **Log panel** checkbox and specify its coordinates on the screen (3).
5. 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 (4). This comment is available for viewing in the event log as well as the name of the operator who accepted the alarm.
6. By default, objects can be filtered by **Alarm** and **Failure** events as well as by **Connected** and **Disconnected** states on the Control Panel. Uncheck the **Use filter by events** box to disable this feature (5). As a result, the corresponding drop-down list becomes disabled on the Control Panel.
7. 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 (6).

**Note.**

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

8. If *ATM-Intellect Pros* and *Additional workplaces* are in different subnets and the *ATM-Intellect* components are not in a distributed system configuration in *Intellect* object tree and **Data gateway** is in use for transmission of live video to *Additional workplaces*, set the **Viewing live video through gateway** checkbox (7).

**Note**

For the details about the **Data gateway**, see [Creating and configuring Data gateway](#).

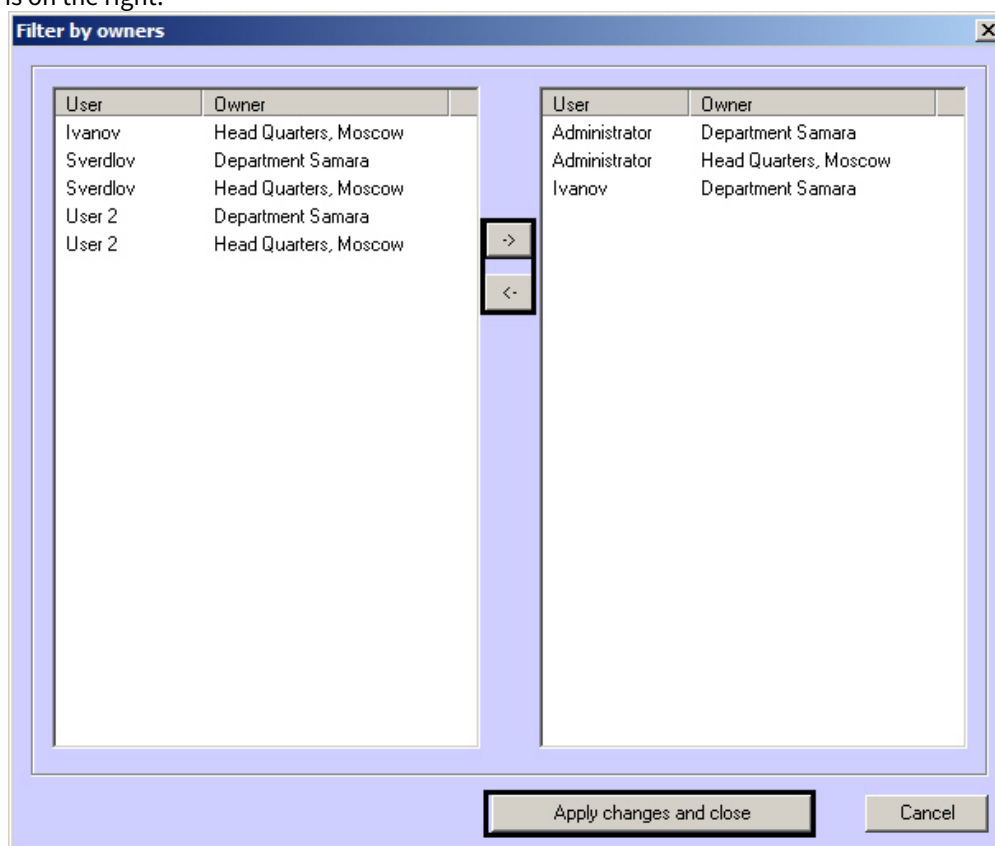
9. To add the "All cameras of Surveillance Object" item to the object's "Video image playback" context menu on the Control Panel which enables viewing video from all cameras of the selected Surveillance Object, set the **Viewing live video from all cameras (add.)** checkbox (8).
10. In the **Video stream speed** field specify the frame rate for live video displaying in frames per second (9). 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.

11. Select the required compression rate for the live video in the **Compression** drop-down list (10).
12. Select groups of alarms to be displayed (11).
13. If specific owners are to be available for specific users on the Owner Panel, then set the filter by owners:
  - a. Click the **Filter...** button (12).
  - b. The **Filter by owners** window appears. The list of available user-owner pairs is on the left, the list of selected ones is on the right.



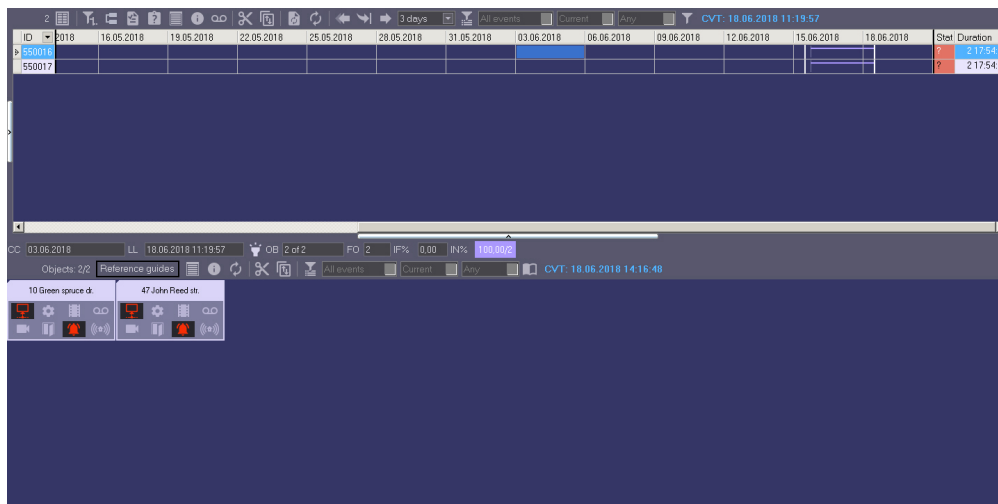
**Note.**

The list of owners is set on the Control Panel – see [Reference information](#) section of [Operator's Guide](#).

- c. Users and their rights are configured in the **Users** tab of the **System settings** dialog box – get information on how to do it in the *Intellect Software Package. Administrator's Guide*. The latest version of this document can be found in [AxxonSoft documentation repository](#).
  - d. Move the pairs between the lists using the <- and -> buttons.
  - e. When the list of user-owner pairs is formed, click the **Apply changes and close** button.
14. Selected pairs of users and owners are displayed in the table (13).
  15. Click **Apply** (14).

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

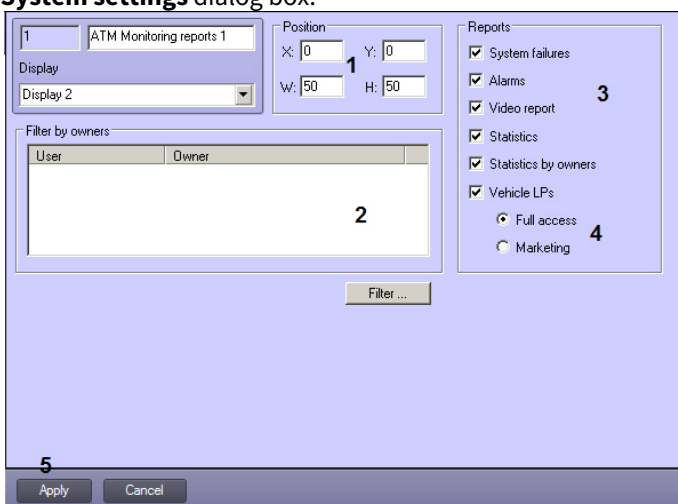
If display is selected under which the **ATM Monitoring** object is created, the **ATM Monitoring** window will be displayed.



## 11.2 Configuration of the ATM Monitoring Reports object

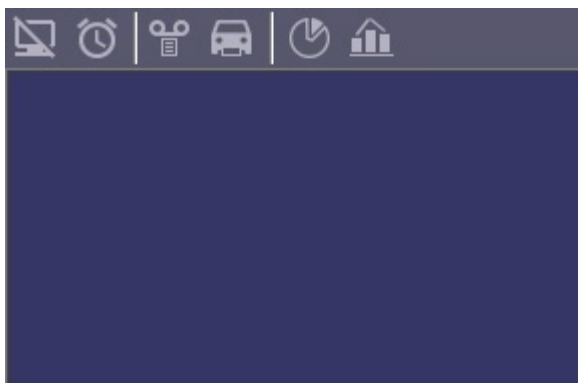
To configure the **Monitoring Reports** object, proceed as follows:

1. Select the **Monitoring Reports** object in the object tree. The settings panel of the object is displayed on the right as the **System settings** dialog box.



2. Set coordinates for the **Monitoring Reports** interface window (1).
3. Set owners filter similar to the one for the **Monitoring** object (2, see [Configuring the ATM Monitoring object](#)).
4. By default, all reports are available for operator. To hide some of the reports, uncheck the boxes next to them in the **Reports** group (3).
5. The (4) parameters are not in use in *ATM Intellect*.
6. Click **Apply** (5).

Configuration of the **Monitoring Reports** object is completed.



### 11.3 Setting up the Search in archive object

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

To set the **Search in archive** object one only needs specify its location on the screen and set up a filter by owners.

**Note.** The filter by owners is configured similar to **ATM Monitoring** object – see [Configuring the ATM Monitoring object](#).

1 Search in archive 1

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

Display  
 Display 1

Filter by owners

User	Owner

Filter ...

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

Search in archive Loads

Object name  
[550016] 47 John Reed str.

Search

Period from: 19.06.2018 0:00:00  
to: 19.06.2018 14:40:39

By captions:  
 By video clips of all cameras  
 By video clips of camera:  
Камера 1 [1]

Data receive timeout (min.): 3

Search Cancel

Query

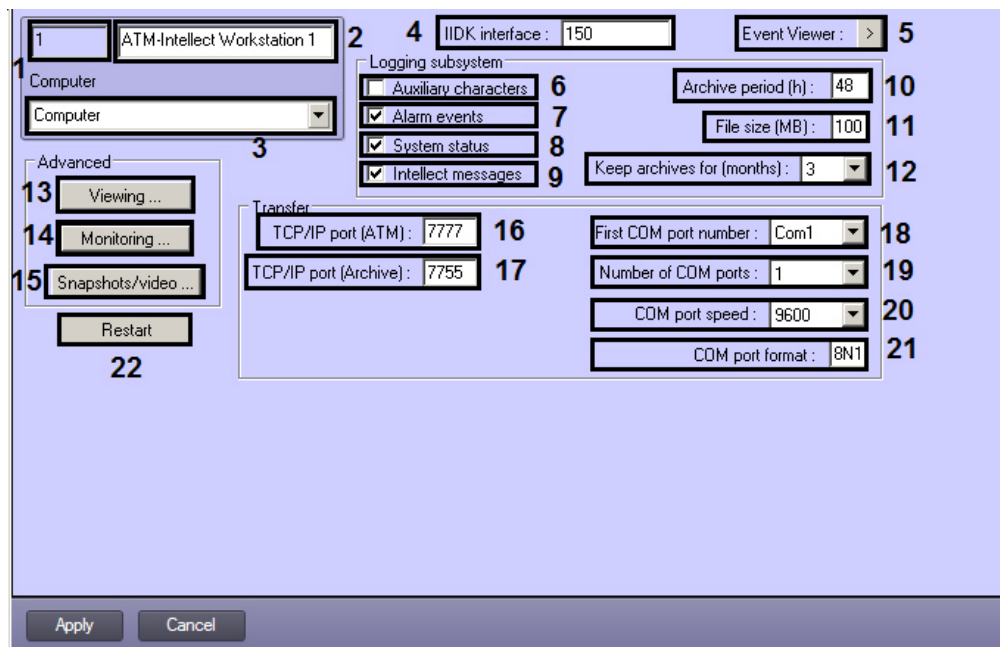
ID	Camera	Date and time	Text
----	--------	---------------	------

Settings

## 12 Appendix 1. Interfaces

### 12.1 Settings panel of the ATM-Intellect Workstation object

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



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

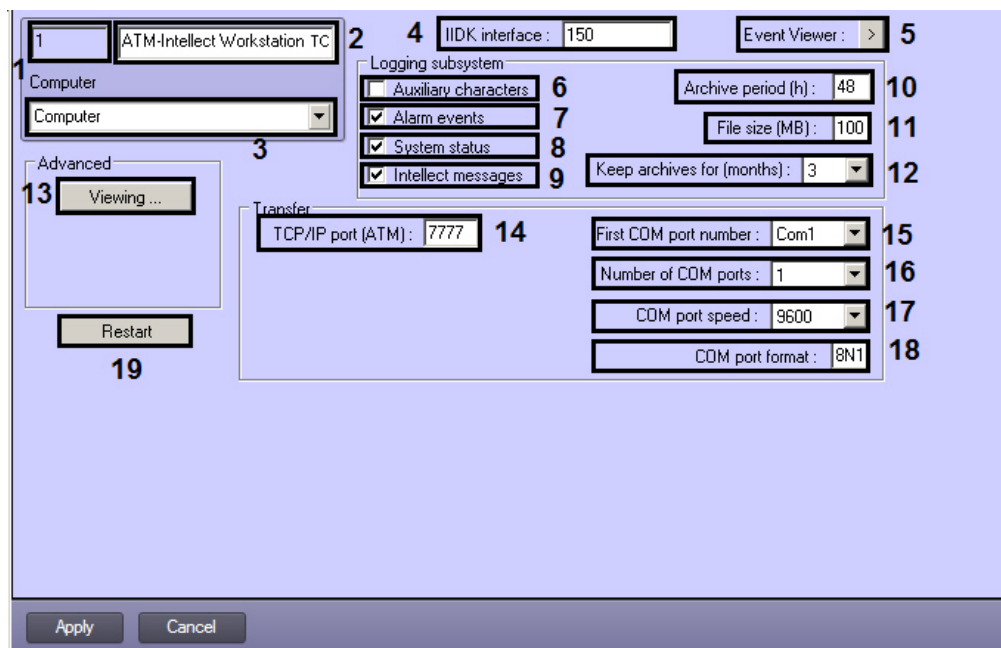
#	Parameter	Method for setting the parameter value	Description	Type	Default value	Value range
1	Identifier	Automatically	Shows the identification number of the <b>ATM-Intellect Workstation</b> object in the system	Nonnegative integer	-	>=0
2	Parameter	Enter the value in the field	Shows the name of the <b>ATM-Intellect Workstation</b> 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	<b>Computer</b>	Is selected in the list	Assigns the parent <b>Computer</b> object for the <b>ATM-Intellect Workstation</b> object	Name of the <b>Computer</b> objects registered in the system.	Name of the parent <b>Computer</b> object	Depends on the number of the <b>Computer</b> objects in the system.
4	<b>IIDK interface</b>	Enter the value in the field	Sets the ID number of <b>IIDK interface</b> object used by the <i>ATM-Intellect Workstation</i>	Nonnegative integer	150	>=0
5	<b>Event Viewer</b>	Click the button	Opens the <i>ATM-Intellect Workstation</i> event viewer	-	-	-

#	Parameter	Method for setting the parameter value	Description	Type	Default value	Value range
<b>Logging subsystem group</b>						
6	<b>Auxiliary characters</b>	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	<b>Alarm events</b>	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	<b>System status</b>	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	<b>Intellect messages</b>	Is set in a checkbox	Enables logging of messages from <i>Intellect</i> software. The log is stored in <i>&lt;Intellect installation&gt;\VHost\video.log</i>	Boolean	True	True – logging of messages from Intellect software is enabled False – logging of messages from Intellect software is disabled
10	<b>Archive period (h)</b>	Enter the value in the field	Sets the frequency at which the event log is to be archived	Hours	48	>0
11	<b>File size (MB)</b>	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 <b>Archive frequency</b> field.	Megabytes	100	>0
12	<b>Keep archives for (months)</b>	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
<b>Advanced group</b>						
13	<b>Viewing...</b>	Click the button	Opens a dialog box for selecting data to display in the Event viewer.	-	-	-
14	<b>Monitoring...</b>	Click the button	Opens a dialog box for setting data transmission onto <i>ATM-Intellect Workstation TC</i>	-	-	-
15	<b>Snapshots/video...</b>	Click the button	Opens a dialog box for configuring reaction to snapshots and videos receiving on sensors	-	-	-

#	Parameter	Method for setting the parameter value	Description	Type	Default value	Value range
			alarms at the <i>ATM-Intellect Pro</i>			
<b>Transfer group</b>						
16	<b>TCP/IP port (ATM)</b>	Enter the value in the field	Sets the port number for TCP/IP communication with remote objects of <b>ATM-Intellect Pro</b>	Nonnegative integer	7777	from 1 to 65535
17	<b>TCP/IP port (Archive)</b>	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	<b>First COM port number</b>	Is selected in the list	Sets the first COM port number	COM-ports names	Com1	from Com1 to Com256
19	<b>Number of COM ports</b>	Is selected in the list	Sets number of COM ports used	Nonnegative integer	1	from 1 to 256
20	<b>COM port speed</b>	Is selected in the list	Sets the COM port speed	Baud	9600	110 300 1200 2400 4800 9600 19200 38400 57600
21	<b>COM port format</b>	Enter the value in the field	Sets the COM port format	COM port format	8N1	<ul style="list-style-type: none"> <li>• first digit: from 5 to 9 data bits;</li> <li>• second letter: <b>N</b> (No parity) – no parity bit, <b>E</b> (Even parity) – even parity bit, <b>O</b> (Odd parity) – odd parity bit;</li> <li>• third digit: 1 or 2 stop bits.</li> </ul>
<b>Outside the groups</b>						
22	<b>Restart</b>	Click the button	<i>VideoSrv</i> communication module restarting	-	-	-

## 12.2 Settings panel of the ATM-Intellect Workstation TC object

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



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

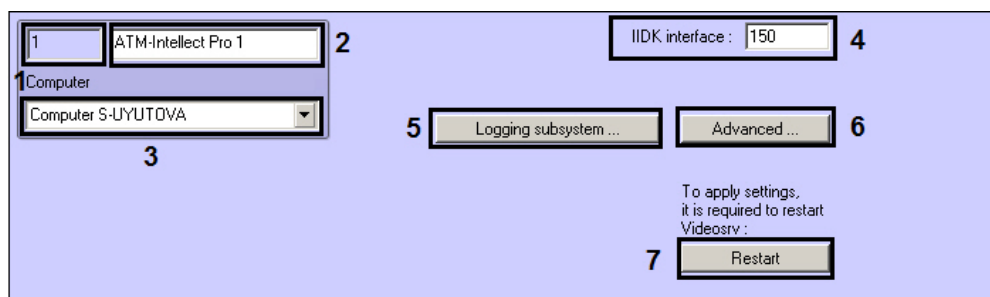
#	Parameter	Method for setting the parameter value	Description	Type	Default value	Value range
1	Identifier	Automatically	Shows the identification number of the <b>ATM-Intellect Workstation TC</b> object in the system	Nonnegative integer	-	>=0
2	Parameter	Enter the value in the field	Shows the name of the <b>ATM-Intellect Workstation TC</b> 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	<b>Computer</b>	Is selected in the list	Assigns the parent <b>Computer</b> object for the <b>ATM-Intellect Workstation TC</b> object	Name of the <b>Computer</b> objects registered in the system.	Name of the parent <b>Computer</b> object	Depends on the number of the <b>Computer</b> objects in the system.
4	<b>IIDK interface</b>	Enter the value in the field	Sets the ID number of <b>IIDK interface</b> object used by the <i>ATM-Intellect Workstation TC</i>	Nonnegative integer	150	>=0
5	<b>Event log</b>	Click the button	Opens the <i>ATM-Intellect Workstation TC</i> event log	-	-	-
<b>Logging subsystem group</b>						

#	Parameter	Method for setting the parameter value	Description	Type	Default value	Value range
6	<b>Auxiliary characters</b>	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	<b>Alarm events</b>	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	<b>System status</b>	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	<b>Intellect messages</b>	Is set in a checkbox	Enables logging of messages from <i>Intellect</i> software The log is stored in <Intellect installation>\VHost\video.log	Boolean	True	True – logging of messages from <i>Intellect</i> software is enabled False – logging of messages from <i>Intellect</i> software is disabled
10	<b>Archive period (h)</b>	Enter the value in the field	Sets the frequency at which the event log is to be archived	Hours	48	>0
11	<b>File size (MB)</b>	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 <b>Archive period (h)</b> field.	Megabytes	100	>0
12	<b>Keep archives for (months)</b>	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
<b>Advanced group</b>						
13	<b>Viewing...</b>	Click the button	Opens a dialog box for selecting data to display in the Event viewer.	-	-	-
<b>Transfer group</b>						
14	<b>TCP/IP port (ATM)</b>	Enter the value in the field	Sets the port number for TCP/IP communication with remote objects of <i>ATM-Intellect Workstation</i>	Nonnegative integer	7777	from 1 to 65535
15	<b>First COM port number</b>	Is selected in the list	Sets the first COM port number	COM-ports names	Com1	from Com1 to Com256

#	Parameter	Method for setting the parameter value	Description	Type	Default value	Value range
1 6	<b>Number of COM ports</b>	Is selected in the list	Sets number of COM ports used	Nonnegative integer	1	from 1 to 256
2 7	<b>COM port speed</b>	Is selected in the list	Sets the COM port speed	Baud	9600	110 300 1200 2400 4800 9600 19200 38400 57600
2 8	<b>COM port format</b>	Enter the value in the field	Sets the COM port format	COM port format	8N1	<ul style="list-style-type: none"> <li>• first digit: from 5 to 9 data bits;</li> <li>• second letter: <b>N</b> (No parity) - no parity bit, <b>E</b> (Even parity) - even parity bit, <b>O</b> (Odd parity) - odd parity bit;</li> <li>• third digit: 1 or 2 stop bits.</li> </ul>
Outside the groups						
2 9	<b>Restart</b>	Click the button	<i>VideoSrv</i> communication module restarting	-	-	-

### 12.3 Settings panel of the ATM-Intellect Pro object

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

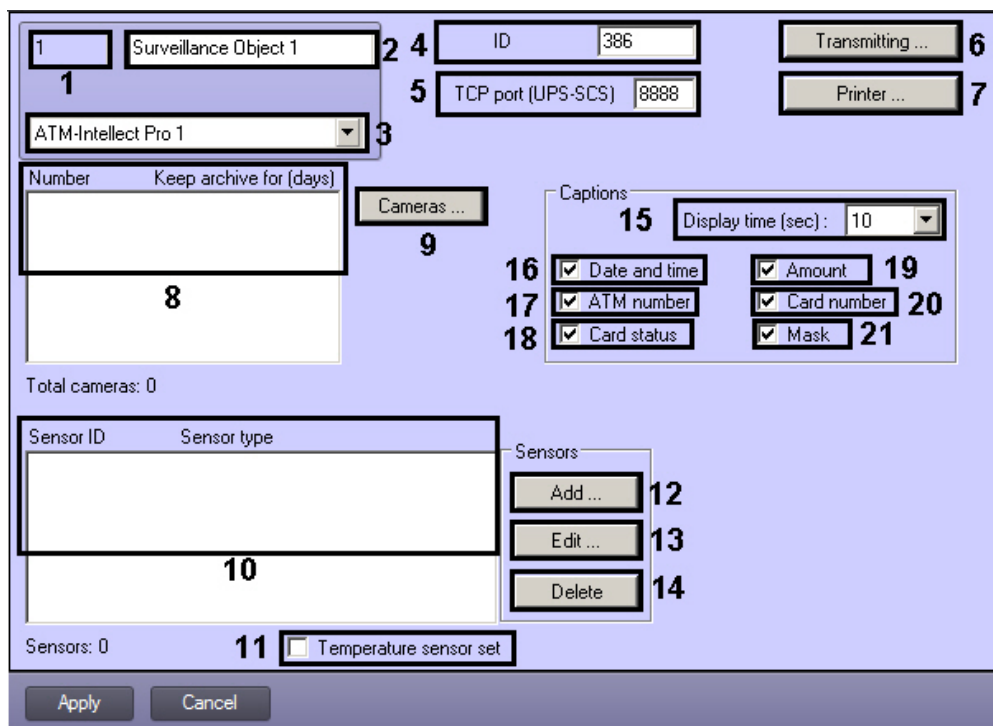


Description of the **ATM-Intellect Pro** object settings panel elements is given in the table.

#	Parameter	Method for setting the parameter value	Description	Type	Default value	Value range
1	Identifier	Automatically	Shows the identification number of the <b>ATM-Intellect Pro</b> object in the system	Nonnegative integer	-	>=0
2	Parameter	Enter the value in the field	Shows the name of the <b>ATM-Intellect Pro</b> 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	<b>Computer</b>	Is selected in the list	Assigns the parent <b>Computer</b> object for the <b>ATM-Intellect Pro</b> object	Name of the <b>Computer</b> objects registered in the system.	Name of the parent <b>Computer</b> object	Depends on the number of the <b>Computer</b> objects in the system.
4	<b>IIDK interface</b>	Enter the value in the field	Sets the ID number of <b>IIDK interface</b> object used by the <b>ATM-Intellect Pro</b>	Nonnegative integer	150	>=0
5	<b>Logging subsystem...</b>	Click the button	Opens a dialog box for setting event log parameters	-	-	-
6	<b>Advanced...</b>	Click the button	Opens a dialog box for setting up time synchronization and control of connection	-	-	-
7	<b>Restart</b>	Click the button	VideoSrv communication module restarting	-	-	-

## 12.4 Settings panel of the Surveillance object object

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



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

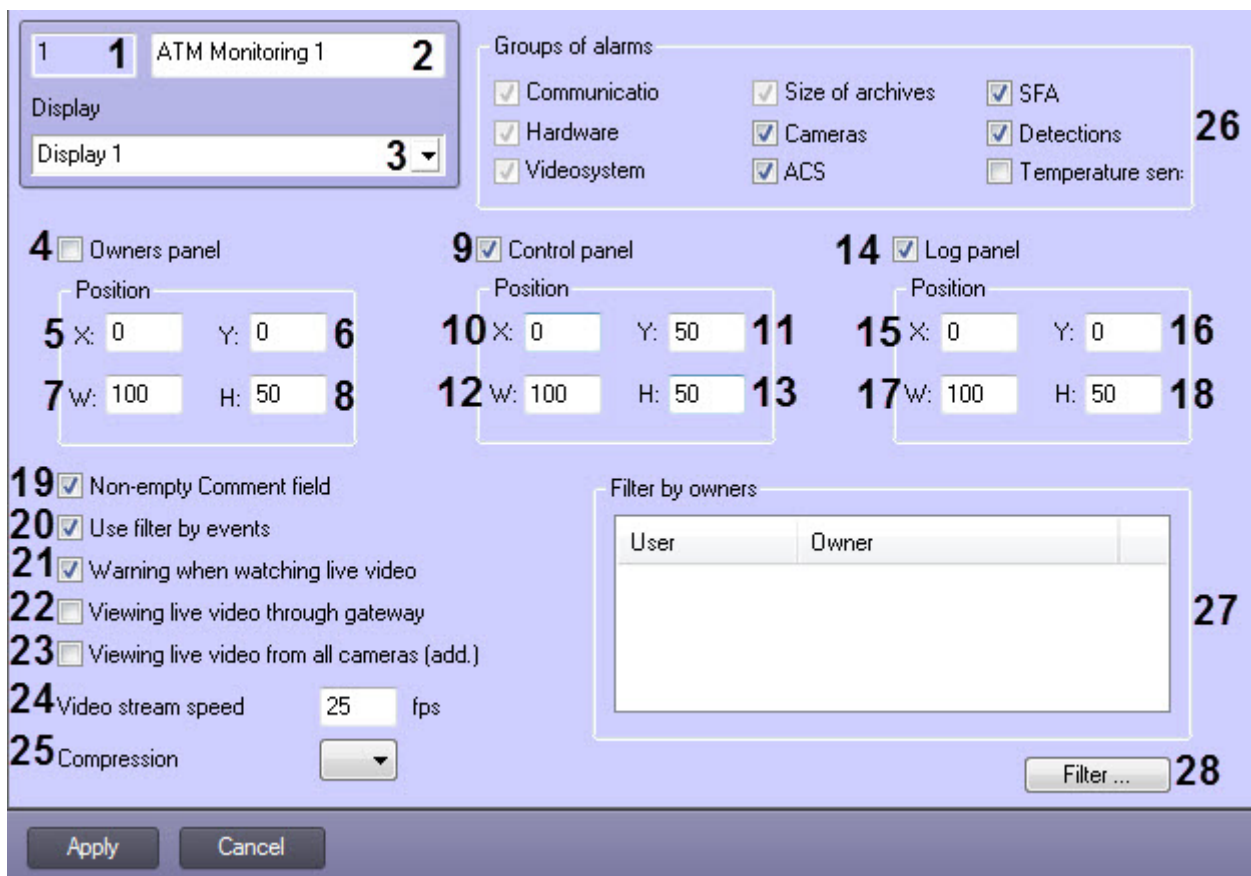
#	Parameter	Method for setting the parameter value	Description	Type	Default value	Value range
1	Identifier	Automatically	Shows the identification number of the <b>Surveillance object</b> object in the system	Nonnegative integer	-	Depends on number of <b>Surveillance object</b> objects in the system
2	Parameter	Enter the value in the field	Shows the name of the <b>Surveillance object</b> 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 <b>ATM-Intellect Pro</b> object for the <b>Surveillance object</b> object	Names of <b>Surveillance object</b> objects registered in the system	Name of the parent <b>ATM-Intellect Pro</b> object	Depends on the number of the <b>ATM-Intellect Pro</b> objects in the system.
4	<b>ID</b>	Enter the value in the field	Sets the unique ID number of the ATM machine	Nonnegative integer	386	>=0
5	<b>TCP port (UPS)</b>	Enter the value in the field	Sets the port on which to "listen" for UPS messages	Nonnegative integer	8888	from 1 to 65535
6	<b>Transmitting...</b>	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>	-	-	-

#	Parameter	Method for setting the parameter value	Description	Type	Default value	Value range
7	<b>Printer...</b>	Click the button	Opens a dialog box for configuration of ATM receipts captioning.	-	-	-
8	Cameras	Using the <b>Cameras...</b> 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.	-	-	-
9	<b>Cameras...</b>	Click the button	Opens a dialog box for adding cameras for monitoring their status	-	-	-
10	Sensors	Using the <b>Add, Edit</b> and <b>Delete</b> 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> .	-	-	-
11	<b>temperature sensor set</b>	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
12	<b>Add...</b>	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	-	-	-
13	<b>Edit...</b>	Click the button	Opens a dialog box for editing the sensor. This dialog box is similar to the one for adding a sensor	-	-	-
14	<b>Delete</b>	Click the button	Deletes sensor from the list	-	-	-
<b>Titles group</b>						
15	<b>Displaying time (sec.)</b>	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
16	<b>Date and time</b>	Is set in a checkbox	Specifies if it is necessary to include event date and time into the captions	Boolean	True	True – date and time are included into the captions False – date and time are not included into the captions

#	Parameter	Method for setting the parameter value	Description	Type	Default value	Value range
17	<b>ATM number</b>	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	True – ATM number is included into the captions False – ATM number is not included into the captions
18	<b>Card status</b>	Is set in a checkbox	Specifies if it is necessary to include data on card status into the captions	Boolean	True	True – card status is included into the captions False – card status is not included into the captions
19	<b>Amount</b>	Is set in a checkbox	Specifies if it is necessary to include operation amount into the captions	Boolean	True	True – amount is included into the captions False – amount is not included into the captions
20	<b>Card number</b>	Is set in a checkbox	Specifies if it is necessary to include card number into the captions	Boolean	True	True – ATM number is included into the captions False – ATM number is not included into the captions
21	<b>Mask</b>	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	True – card number is masked False – card number is fully displayed

## 12.5 Settings panel of the ATM Monitoring interface object

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



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 <b>ATM Monitoring reports</b> object in the system	Nonnegative integer	-	>=0
2	Parameter	Enter the value in the field	Shows the name of the <b>ATM Monitoring</b> object in the system	Latin, Cyrillic letters and service characters	<b>ATM Monitoring</b>	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	<b>Display</b>	Is selected in the list	Assigns the parent <b>Display</b> object for the <b>ATM Monitoring</b> object	Names of <b>Display</b> objects registered in the system	Name of the parent <b>Display</b> object	Depends on the number of the <b>Display</b> objects in the system.
4	<b>Owners panel</b>	Is set in a checkbox	Enables Owners panel displaying	Boolean	True	True - Owners panel is displayed  False - Owners panel is hidden
5	<b>X:</b>	Enter the value in the field	Set the X coordinate in the horizontal axis for the	% of the screen width	0	from 0 to 100. When more than one monitor is connected to the computer it is possible to use

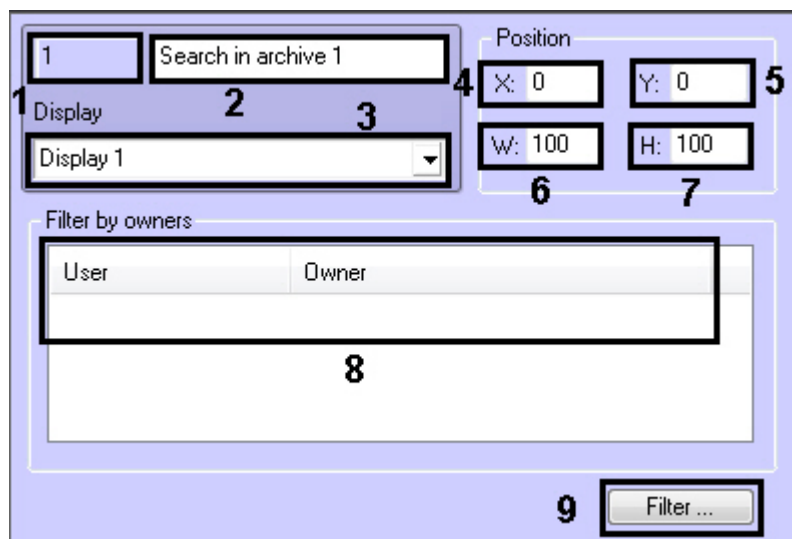
#	Parameter	Method for setting the parameter value	Description	Type	Default value	Value range
			upper-left corner of the Owners panel interface box			coordinates outside this range, but it is not recommended to use coordinates less than -200.
6	<b>Y:</b>	Enter the value in the field	Set the Y coordinate in the vertical axis for the upper-left corner of the Owners 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.
7	<b>W:</b>	Enter the value in the field	Set the width of the Owners 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	<b>H:</b>	Enter the value in the field	Set the height of the Owners 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.
9	<b>Control panel</b>	Is set in a checkbox	Enables Control panel displaying	Boolean	True	True - Control panel is displayed False - Control panel is hidden
10	<b>X:</b>	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.
11	<b>Y:</b>	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.
12	<b>W:</b>	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.

#	Parameter	Method for setting the parameter value	Description	Type	Default value	Value range
13	<b>H:</b>	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.
14	<b>Log panel</b>	Is set in a checkbox	Enables Log panel displaying	Boolean	True	True - Log panel is displayed False - Log panel is hidden
15	<b>X:</b>	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.
16	<b>Y:</b>	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.
17	<b>W:</b>	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.
18	<b>H:</b>	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.
19	<b>Non-empty Comment field</b>	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 - <b>Comment</b> field shall not be empty on alarm accepting False - alarm accepting can be done without a comment from Operator
20	<b>Use filter by events</b>	Is set in a checkbox	Is set to enable filtering objects by Alarm and Failure events and Connected and Disconnected states on the Control Panel.	Boolean	True	True – filter can be applied. False – filter cannot be applied.

#	Parameter	Method for setting the parameter value	Description	Type	Default value	Value range
2 1	<b>Warning when watching live video</b>	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  <b>Attention! This setting is not available at the ATM-Intellect Workstation TC</b>	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
2 2	<b>Viewing live video through gateway</b>	Is set in a checkbox	If set if <i>ATM-Intellect Pros</i> and <i>Additional workplaces</i> are in different subnets and the <i>ATM-Intellect</i> components are not in a distributed system configuration in <i>Intellect</i> object tree and <b>Data gateway</b> is in use for transmission of live video to <i>Additional workplaces</i>	Boolean	False	True – live video is transferred to the <i>Additional workplaces</i> through the data gateway.  False – live video is transferred to the <i>Additional workplaces</i> directly from the <i>ATM-Intellect Pro</i> .
2 3	<b>Viewing live video from all cameras (add.)</b>	Is set in a checkbox	Is set if the "All cameras of Surveillance Object" item should be added to the object's "Video image playback" context menu on the Control Panel which enables viewing video from all cameras of the selected Surveillance Object.	Boolean	False	True – the "All cameras of Surveillance Object" item is added to the object's "Video image playback" context menu on the Control Panel.  False – there is no "All cameras of Surveillance Object" item in the menu.
2 4	<b>Video stream speed</b>	Enter the value in the field	Sets the frame rate for live video displaying  <b>Attention! This setting is not available at the ATM-Intellect Workstation TC</b>	Frames per second	25	Depends on the camera features
2 5	<b>Compression</b>	Is selected in the list	Sets the compression rate for the live video.	Available compression rates	False	0-5
2 6	<b>Groups of alarms</b>	Is set in a checkbox	Sets alarms that one want to visualize on the Control panel	Boolean	All checkboxes except the <b>Temperature sensors</b> 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
2 7	<b>Filter by owners</b>	Via the <b>Filters...</b> button	Displays selected pairs of users and owners	-	-	-
2 8	<b>Filter...</b>	Click the button	Opens a dialog box to match owners to users	-	-	-

## 12.6 Settings panel of the Search in archive interface object

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



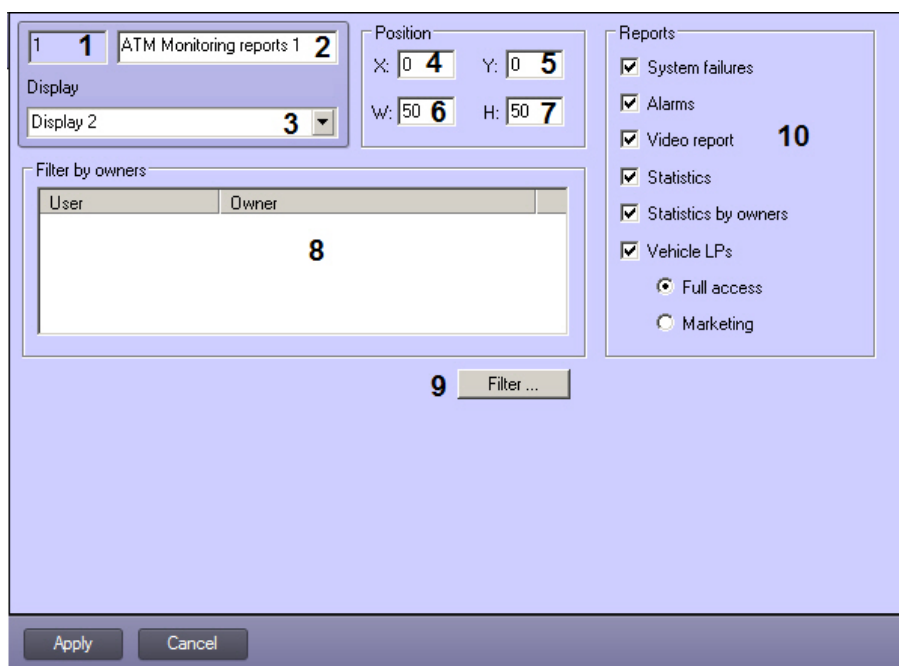
Description of the **Search in archive** object settings panel elements is given in the table.

#	Parameter	Method for setting the parameter value	Description	Type	Default value	Value range
1	Identifier	Automatically	Shows the identification number of the <b>Search in archive</b> object in the system	Nonnegative integer	-	$\geq 0$
2	Parameter	Enter the value in the field	Shows the name of the <b>Search in archive</b> 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	<b>Display</b>	Is selected in the list	Assigns the parent <b>Display</b> object for the <b>Search in archive</b> object	Names of <b>Display</b> objects registered in the system	Name of the parent <b>Display</b> object	Depends on the number of the <b>Display</b> objects in the system.
4	<b>X:</b>	Enter the value in the field	Set the X coordinate in the horizontal axis for the upper-left corner of the <b>Search in archive</b> 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	<b>Y:</b>	Enter the value in the field	Set the Y coordinate in the vertical axis for the upper-left corner of the <b>Search in archive</b> 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	<b>W:</b>	Enter the value in the field	Sets width of the <b>Search in archive</b> 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

#	Parameter	Method for setting the parameter value	Description	Type	Default value	Value range
						recommended to use coordinates less than -200.
7	<b>H:</b>	Enter the value in the field	Sets height of the <b>Search in archive</b> 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.
8	<b>Filter by owners</b>	Via the <b>Filter...</b> button	Displays selected pairs of users and owners	-	-	-
9	<b>Filter...</b>	Click the button	Opens a dialog box to match owners to users	-	-	-

## 12.7 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 <b>ATM Monitoring reports</b> object in the system	Nonnegative integer	-	>=0
2	Parameter	Enter the value in the field	Shows the identification number of the <b>ATM Monitoring</b>	Latin, Cyrillic letters and service characters	Monitoring	A line representing a sequence of any symbols (letters, digits, service

#	Parameter	Method for setting the parameter value	Description	Type	Default value	Value range
			<b>reports</b> object in the system			characters apart from > and < symbols), not case-sensitive. Number of symbols – from 1 to 60.
3	<b>Display</b>	Is selected in the list	Assigns the parent <b>Display</b> object for the <b>ATM Monitoring reports</b> object	Names of <b>Display</b> objects registered in the system	Name of the parent <b>Display</b> object	Depends on the number of the <b>Display</b> objects in the system.
4	<b>X:</b>	Enter the value in the field	Set the X coordinate in the horizontal axis for the upper-left corner of the <b>ATM Monitoring reports</b> 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	<b>Y:</b>	Enter the value in the field	Set the Y coordinate in the vertical axis for the upper-left corner of the <b>ATM Monitoring reports</b> 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	<b>W:</b>	Enter the value in the field	Sets width of the <b>ATM Monitoring reports</b> 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	<b>H:</b>	Enter the value in the field	Sets height of the <b>ATM Monitoring reports</b> 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.
8	<b>Filter by owners</b>	Via the <b>Filters...</b> button	Displays selected pairs of users and owners	-	-	-
9	<b>Filter...</b>	Click the button	Opens a dialog box to match owners to users	-	-	-
10	<b>Reports</b>	Set by checkbox	Select reports available in the interface window. <i>Note. Vehicle LPs report is not in use in ATM Intellect.</i>	Boolean	All checkboxes are set, full access to the Vehicle PLs report is set	Yes – the report button is displayed in the <b>Monitoring Reports</b> interface window. No – the report button is not displayed in the <b>Monitoring Reports</b> interface window.

## 13 Appendix 2. Examples of scripts

### **Note**

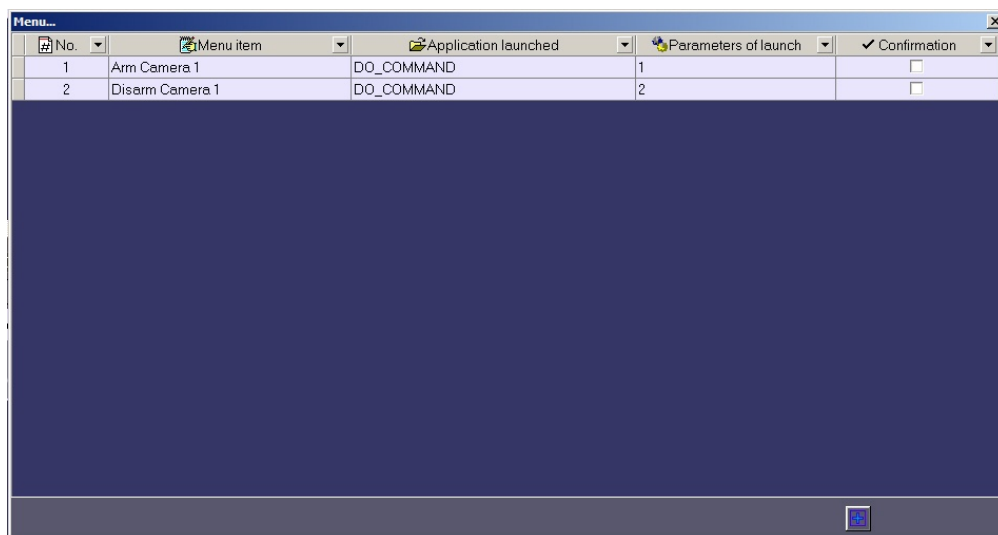
Detailed information about creating programs and scripts in the Intellect software can be found in *Programming Guide* and *Programming Guide (JScript)* documents. The most recent versions of these documents are available in the [AxxonSoft documentation repository](#).

### 13.1 Sample script for processing ATM-Intellect Workstation command on ATM-Intellect Pro

In the *ATM-Intellect* software package one can configure ad hoc command sending by the Operator of the *ATM-Intellect Workstation* to the *ATM-Intellect Pro*. Information on how to configure commands on the *ATM-Intellect Workstation* can be found in the [Executing ad hoc command on the ATM-Intellect Pro by the operator of ATM-Intellect Workstation](#) section of [Operator's Guide](#).

A script for processing incoming commands is to be created on the *ATM-Intellect Pro*.

Extra menu items are created on the *ATM-Intellect Workstation* – “Arm camera 1” and “Disarm camera 1”. They send a command with parameter 1 or 2 correspondingly.



No.	Menu item	Application launched	Parameters of launch	Confirmation
1	Arm Camera 1	DO_COMMAND	1	<input type="checkbox"/>
2	Disarm Camera 1	DO_COMMAND	2	<input type="checkbox"/>

The sample of program in *Intellect* embedded language for processing the incoming command is shown below:

```
OnEvent("VIDEOSRV_C_DVC_ATM", "1", "DO_COMMAND")
{
    if (strequal(param0, "1"))
    {
        DoReact("CAM", "1", "ARM");
    }
    if (strequal(param0, "2"))
    {
        DoReact("CAM", "1", "DISARM");
    }
}
```

## 13.2 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.
]
}

```

### 13.3 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.

#### Note.

It is also possible for receipts printer. The following events of VIDEOSRV\_C\_DVC\_ATM (**Surveillance object**) object can be used for that:

RECEIPT\_START – Receipt start  
RECEIPT\_STOP – Receipt end

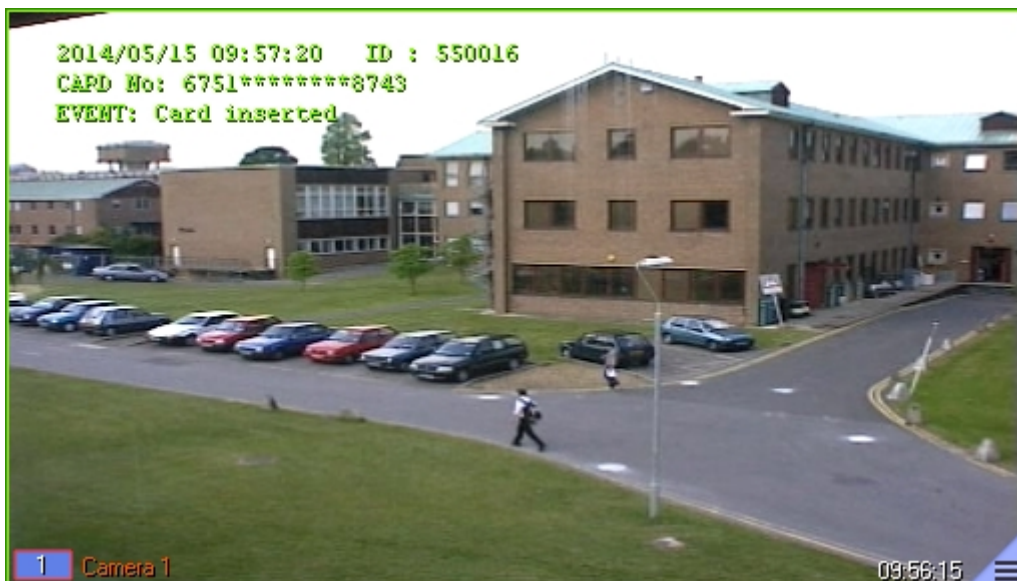
Example of script on built-in Intellect programming language for captioning on **Card inserted** event is given below:

```

OnEvent("VIDEOSRV_C_DVC_ATM","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.



## 13.4 Sample script to export filtered data from the Log Panel to .xls

Before executing this command, apply filter in the Log Panel. It can be done from the user interface (see [Custom filter in the Log Panel](#)) or by a script (see [Sample script for setting custom filter in the Log Panel](#)).

Export filtered Log Panel data to the test.xls file on disk C:

```
DoReact("VIDEOSRV_M", "", "EXPORT_EXCEL", "computer<NamePC>, file<c:\test.xls>");
```

## 13.5 Sample script for setting custom filter in the Log Panel

Custom filter on the Log Panel can be changed with a script or macro. For more details on the filter and its configuration in the user interface, see [Custom filter in the Log Panel](#).

Use APPLY\_FILTER reaction of the VIDEOSRV\_M object to create or change the custom filter in the Log Panel:

```
DoReact("VIDEOSRV_M", "", "APPLY_FILTER", "computer<>, query<>");
```

Parameters:

computer<> – NetBIOS name of the computer to execute the command on.

query<> – filter condition.

### The query<>parameter syntax:

query<TotalExpressions;BoolOperatorKind;Expression[;Expression]>

- **TotalExpressions** — number of expressions in the condition  
Example:  
TotalExpressions = 1 for condition (Cameras equal 2)  
TotalExpressions = 3 for condition (Cameras equal 2) and ((Disks equal 1) or (Disks equal 2))
- **BoolOperatorKind** — boolean operator for main expression. Possible values:  
– and  
– or  
Example:  
BoolOperatorKind = and for condition (Cameras equal 2)  
BoolOperatorKind = and for condition (Cameras equal 2) and ((Disks equal 1) or (Disks equal 2))  
BoolOperatorKind = or for condition (Cameras equal 1) or (Cameras equal 2)
- **Expression** — one or several expressions  
Format: Field;Expressions;LocalBoolOperator;OperatorKind;Value
  - *Field* — name of the field in the DB table.  
Possible values:

- ID
- Name
- Region
- Province
- City
- CamCnt
- ArcMax
- HddCnt
- IpAddress
- FirstRecord
- TemperHdd
- AvailMemory
- WorkingTime
- VerSoft
- *Expressions* — number of expressions in a subcondition.  
Example:  
Expressions = 1 for condition (Cameras equal 2) and ((Disks equal 1) or (Disks equal 2))  
Expressions = 2 for condition (Cameras equal 2) and ((Disks equal 1) or (Disks equal 2))
- *LocalBoolOperator* — boolean operator for subconditions. Possible values:
  - and
  - or
 Example:  
LocalBoolOperator = and for condition (Cameras equal 2)  
LocalBoolOperator = or for condition (Cameras equal 2) and ((Disks equal 1) or (Disks equal 2))
- *OperatorKind* — operator type.  
Possible values:
  - Equal
  - NotEqual
  - Less
  - LessOrEqual
  - Greater
  - GreaterOrEqual
  - Like
  - NotLike
- *Value* — value to compare with.

**Examples:**

(Cameras equal 2) ▼

query<1;and;CamCnt;1;and;Equal;2>

With main expressions:

(Cameras less 5) AND (Cameras greater 3) ▼

query<2;and;CamCnt;1;and;Less;5;CamCnt;1;and;Greater;3>

With subquery:

((Cameras less 5) AND (Cameras greater 3)) ▼

query<2;and;CamCnt;2;and;Less;5;CamCnt;2;and;Greater;3>

((Cameras greater 1) AND (Cameras less 5)) AND (Disks greater 0) ▼

```
query<3;and;CamCnt;2;and;Greater;1;CamCnt;2;and;Less;5;HddCnt;1;and;Greater;0>
```

(Name ending with 47)

```
query<1;and;Name;1;and;Like;%47>
```

## 14 Appendix 3. ATM Event Capture utility

### 14.1 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. It is possible to read the card number from an ATM journal (if Protopas, TellMe or MAKZ software is in use) but not directly from the card in the card reader.

### 14.2 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, 8.1 and 10 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 3.30.

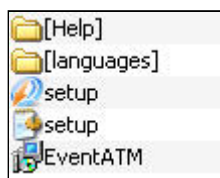
#### **Note.**

The XFS environment is necessary even if the ATM Event Capture utility does not connect to a card reader but reads a card number from an ATM journal. While using this mechanism, the ATM Event Capture utility receives a "Card inserted" event from XFS and refers to the ATM journal to get the card number.

### 14.3 Installing ATM Event Capture

#### 14.3.1 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 uninstall *ATM Event capture* software.

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

#### 14.3.2 Preparing to install ATM Event Capture

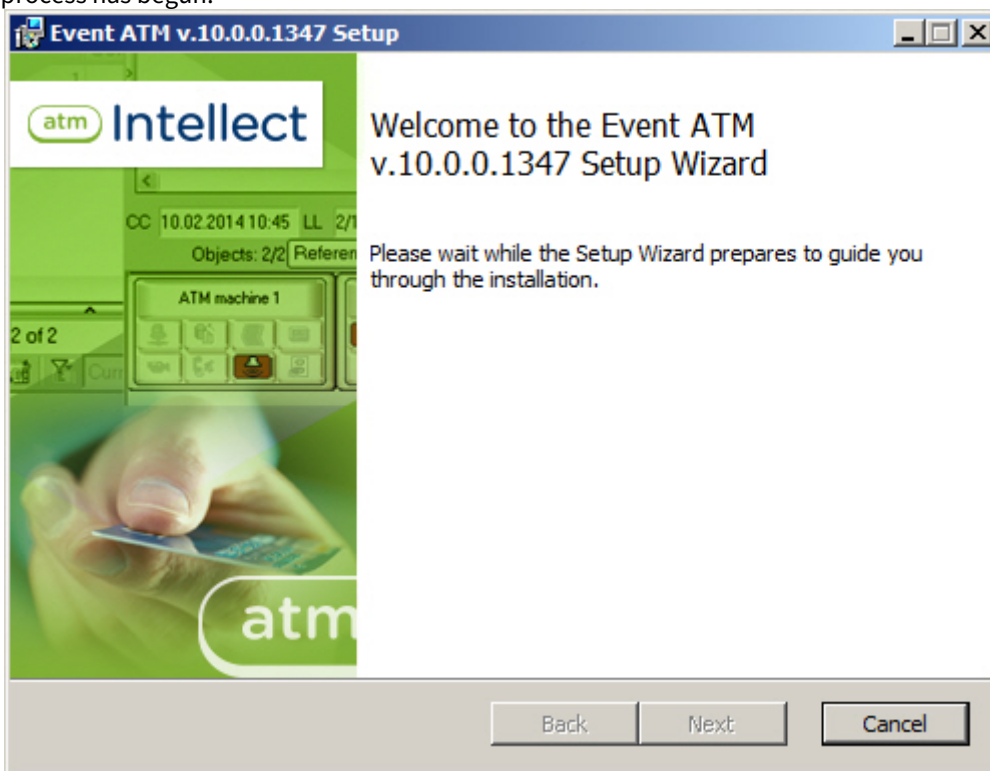
Before starting installation, copy the installer package to a local disk and make sure that the installer files are not marked as "read-only".

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

#### 14.3.3 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.



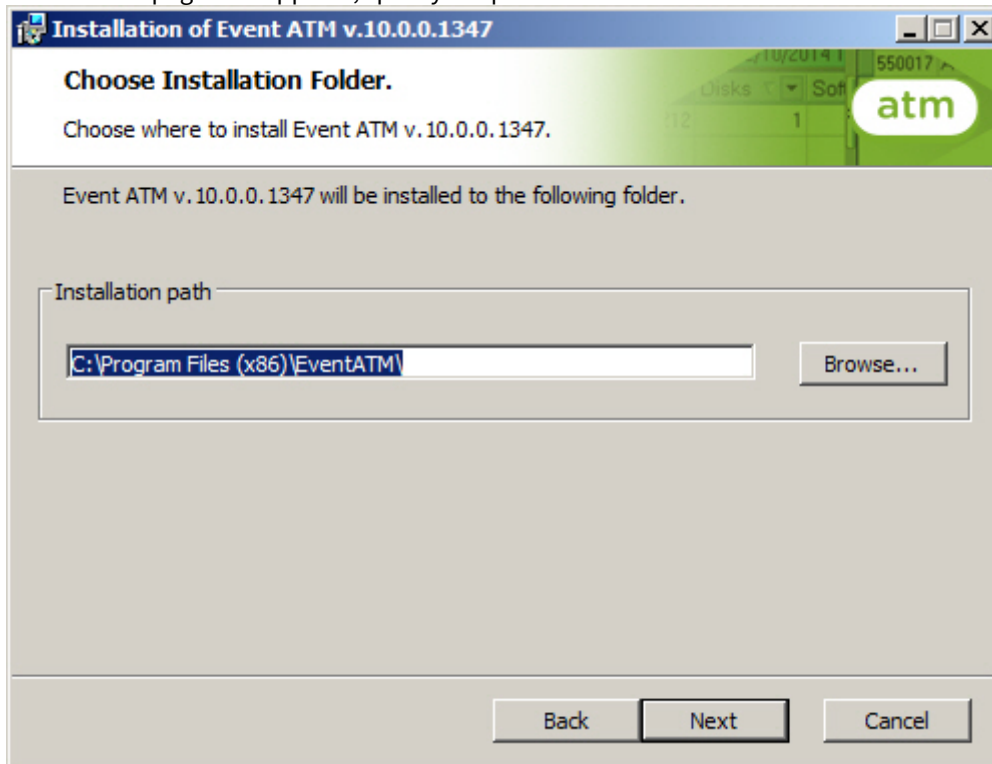
2. You are prompted to start installation. Click the **Next** button.



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**.

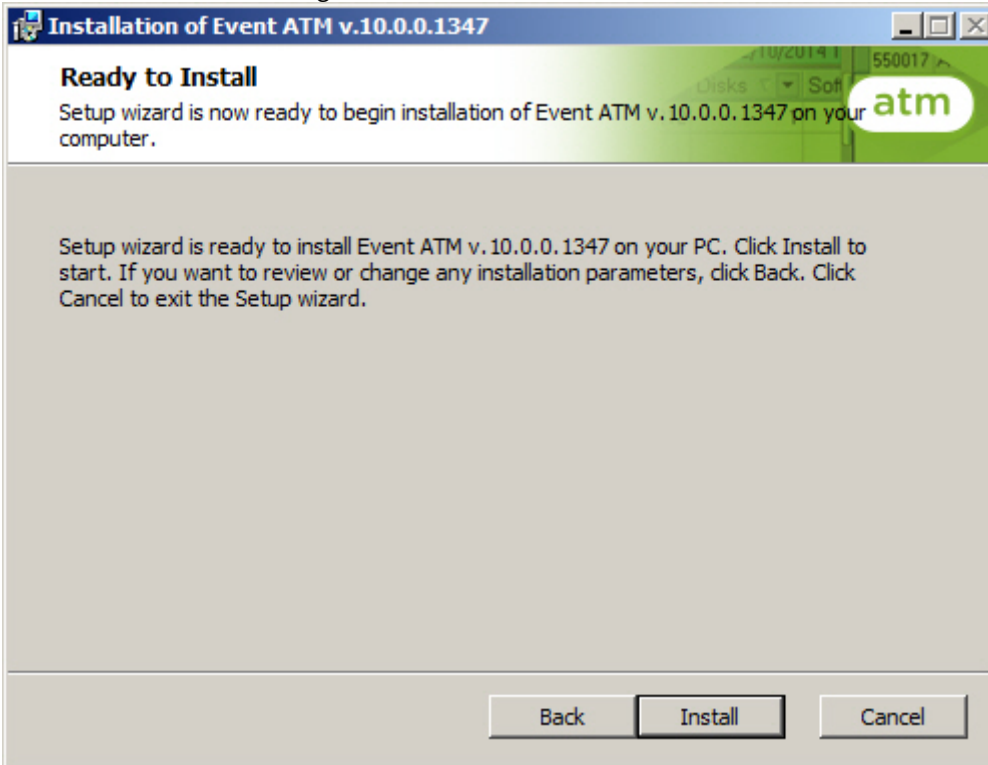


4. In the wizard page that appears, specify the path to the folder in which the software will be installed.

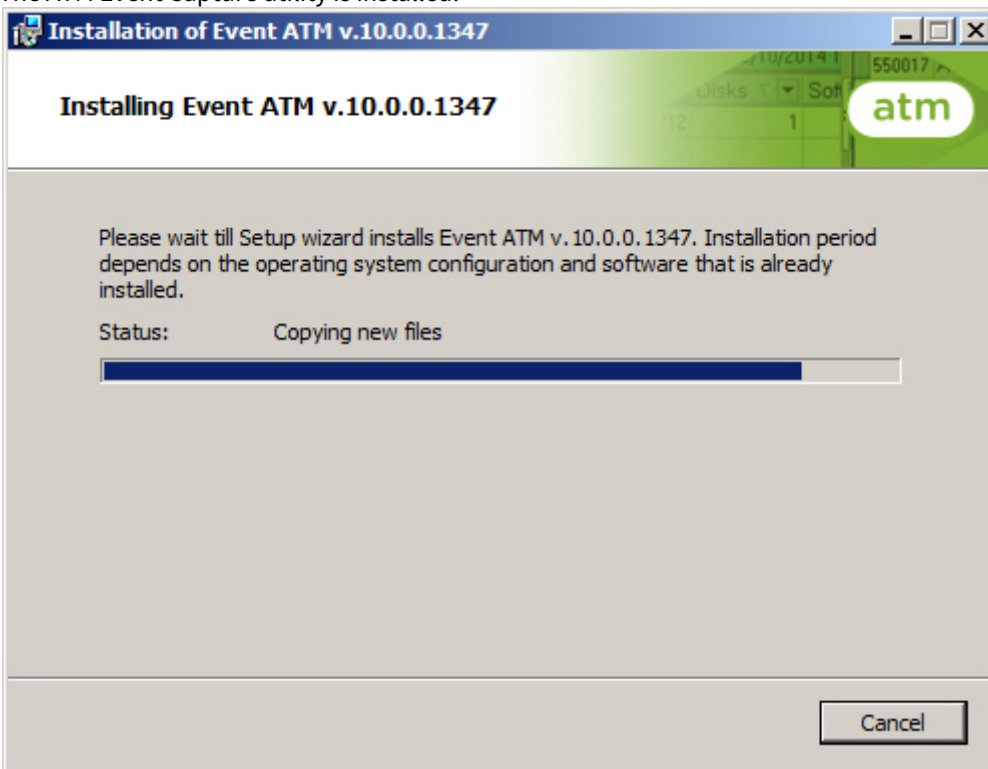


If you do not want to use the default folder, click the **Change...** button and specify another folder. Otherwise, click the **Next** button.

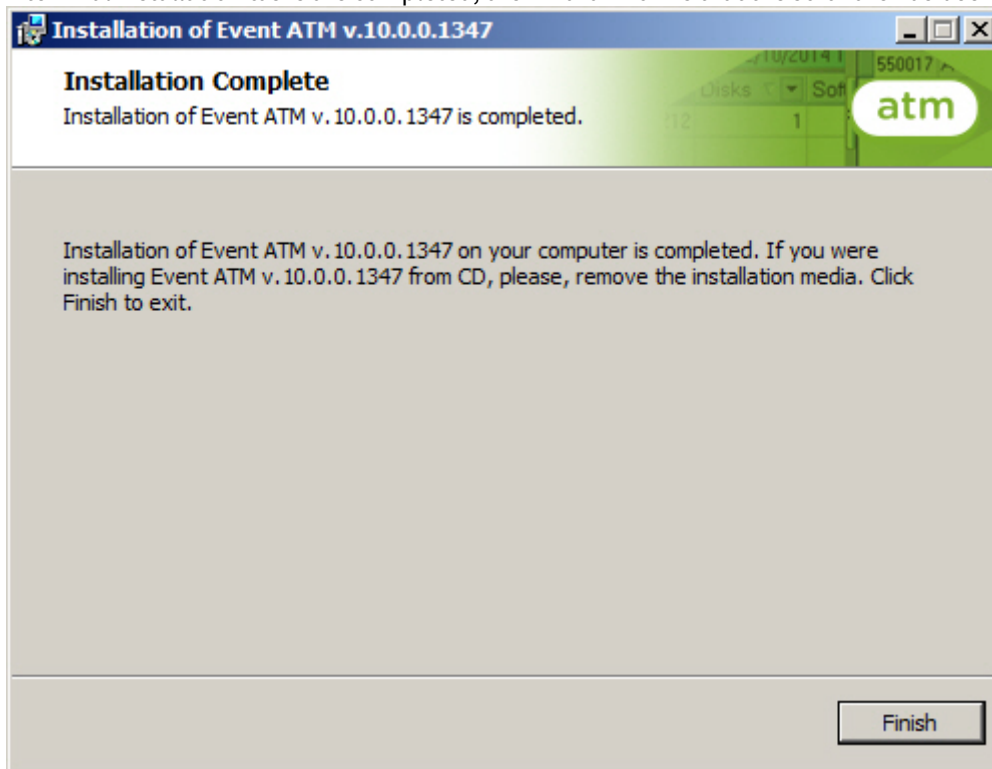
5. Click **Install** in the next dialog box.



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.

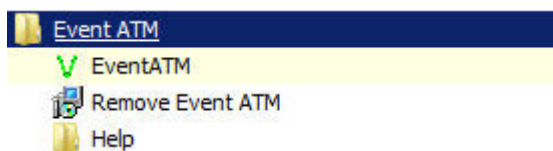


ATM Event Capture installation is completed.

## 14.4 ATM Event Capture configuration

### 14.4.1 ATM Event Capture starting

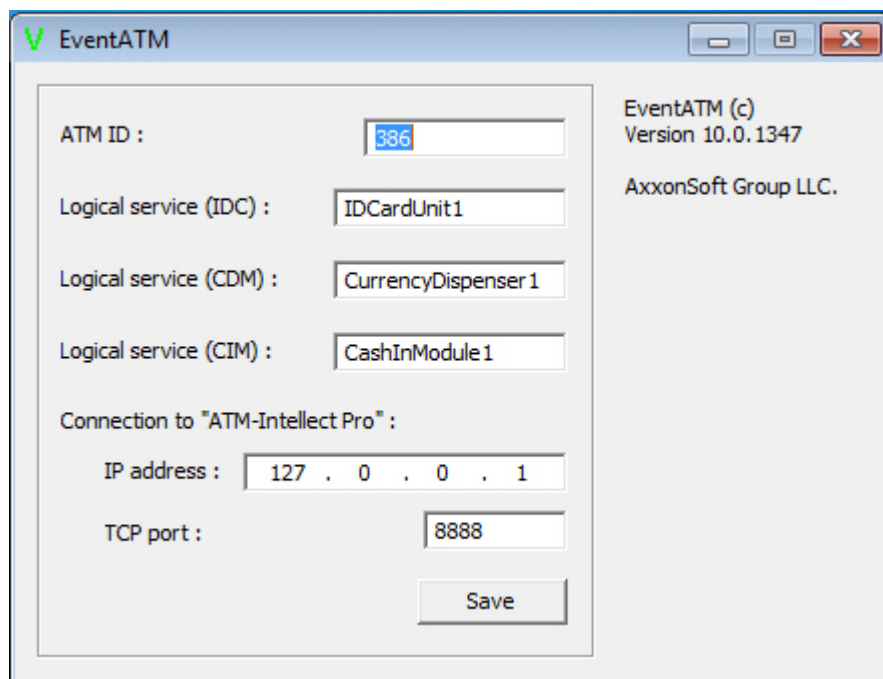
To start ATM Event Capture select **Start>All Programs>EventATM>EventATM**.



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



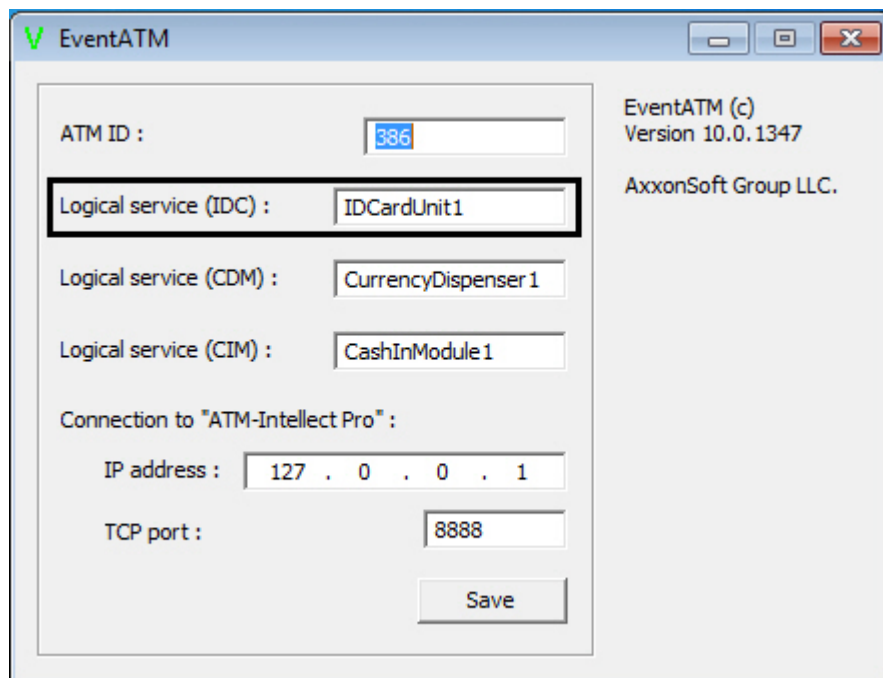
Double-clicking the icon opens a dialog box with settings for ATM Event Capture.



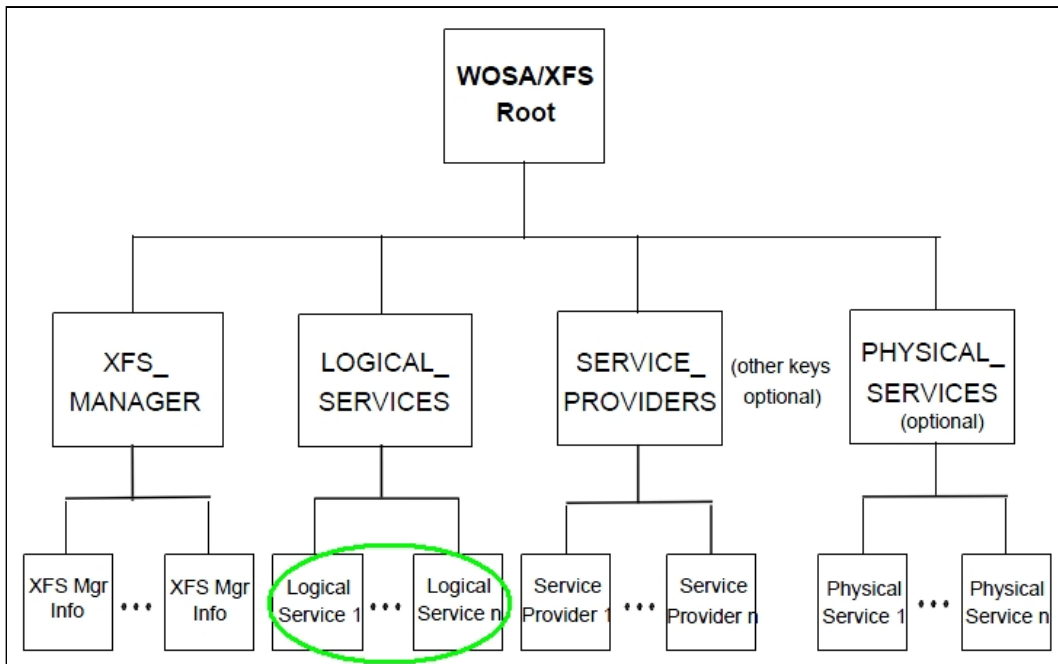
This dialog box allows configuring compatibility with the ATM XFS environment and with ATM Intellect Pro.

#### 14.4.2 Configuring the connection to the card reader service provider

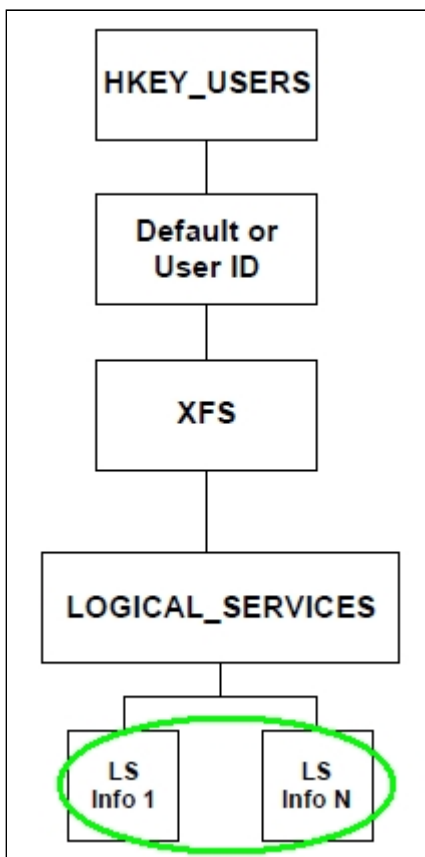
To configure the connection to the card reader service provider (IDC), set the **Logical service (IDC)** parameter.



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.

### 14.4.3 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».

#### 14.4.4 Configuring the connection with ATM-Intellect Pro

To configure the connection with *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.

### 14.4.5 Configuring card number masking

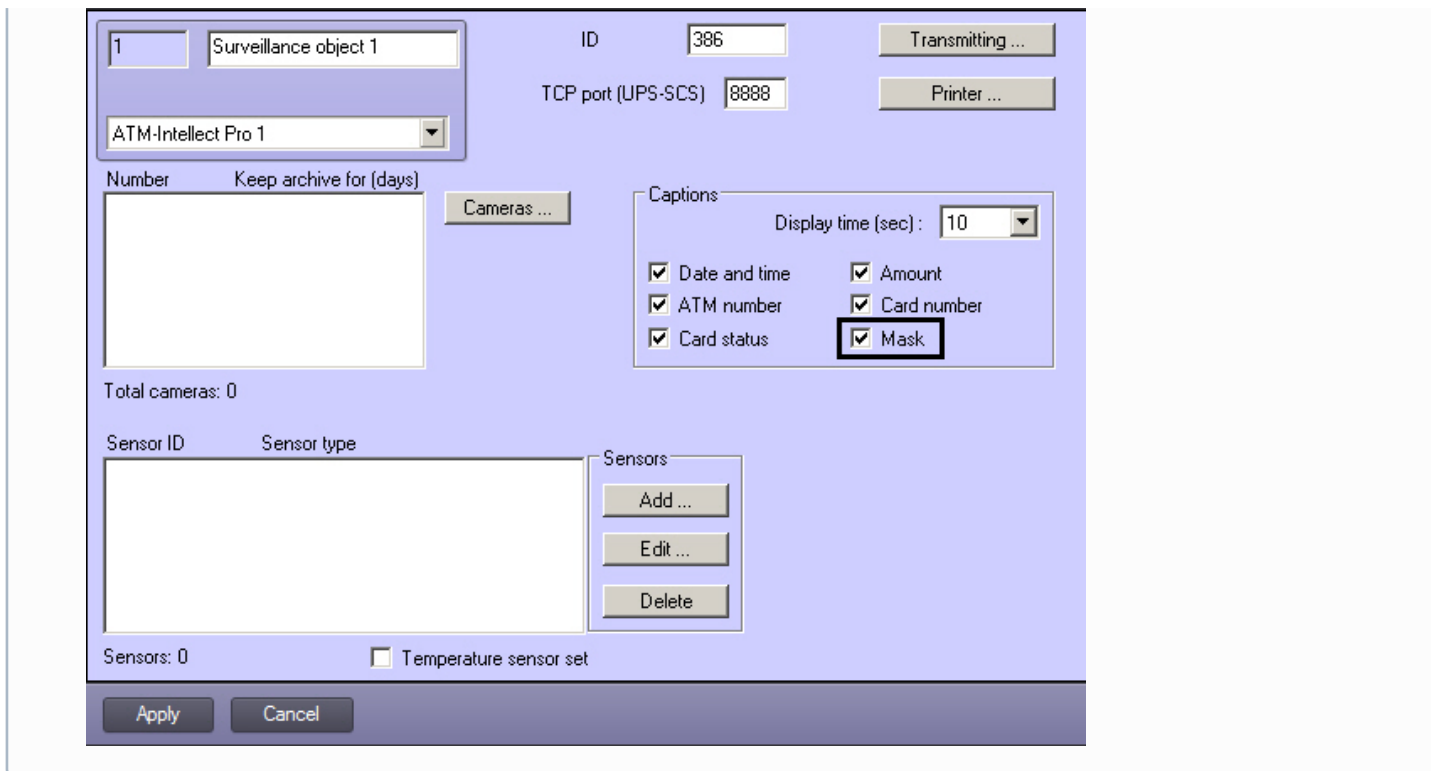
By default ATM Event Capture automatically masks the card number when displaying captions on a video image so that only 6 digits in the beginning and 4 digits in the end of the number are visible. To change the mask parameters use a "Mask" key in the HKLM\Software\ITV\EventATM registry branch for 32-bit system (HKLM\Software\Wow6432Node\ITV\EventATM for 64-bit). 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.



### 14.4.6 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 in the HKEY\_LOCAL\_MACHINE\SOFTWARE\ITV\EventATM\ registry section for 32-bit OS (HKEY\_LOCAL\_MACHINE\SOFTWARE\Wow6432Node\ITV\EventATM\ for 64-bit):

Key	Description	Default value	Range
<b>JrnMode</b>	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) 2 – card number is read from the ATM journal through the MAK3 (TUSSON) software 3 – card number is read from the ATM journal through the TellMe (SCS) software
<b>JrnPath</b>	Defines the path to the ATM's journal	-	If JrnMode = 1, then JrnPath = C:\JOURNAL\ If JrnMode = 2, then JrnPath = C:\scs\atm_h\PRJ\ If JrnMode = 3, then JrnPath = C:\scs\atm_h\PRJ\
<b>JrnTrack2Substring</b>	Substring for searching the card number	-	If JrnMode = 1, then JrnTrack2Substring = (TRACK 2 DATA): If JrnMode = 2, then JrnTrack2Substring = @++ If JrnMode = 3, then JrnTrack2Substring = KAPTA:

## 14.5 ATM Event Capture operation

### 14.5.1 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 networ...		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**.



### 14.5.2 Capturing events

ATM Event Capture captures the following card reader and dispenser events:

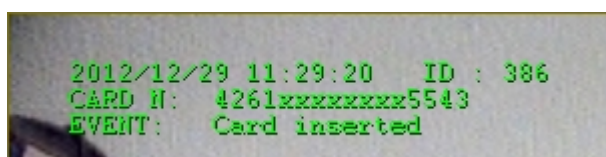
1. Card inserted;
2. Card taken by client;
3. Card captured by ATM;
4. Cash delivery;
5. Client took out the cash;
6. ATM took out the cash;
7. Safe door opened;
8. Safe door closed.

ATM Event Capture also captures the following cash-in events:

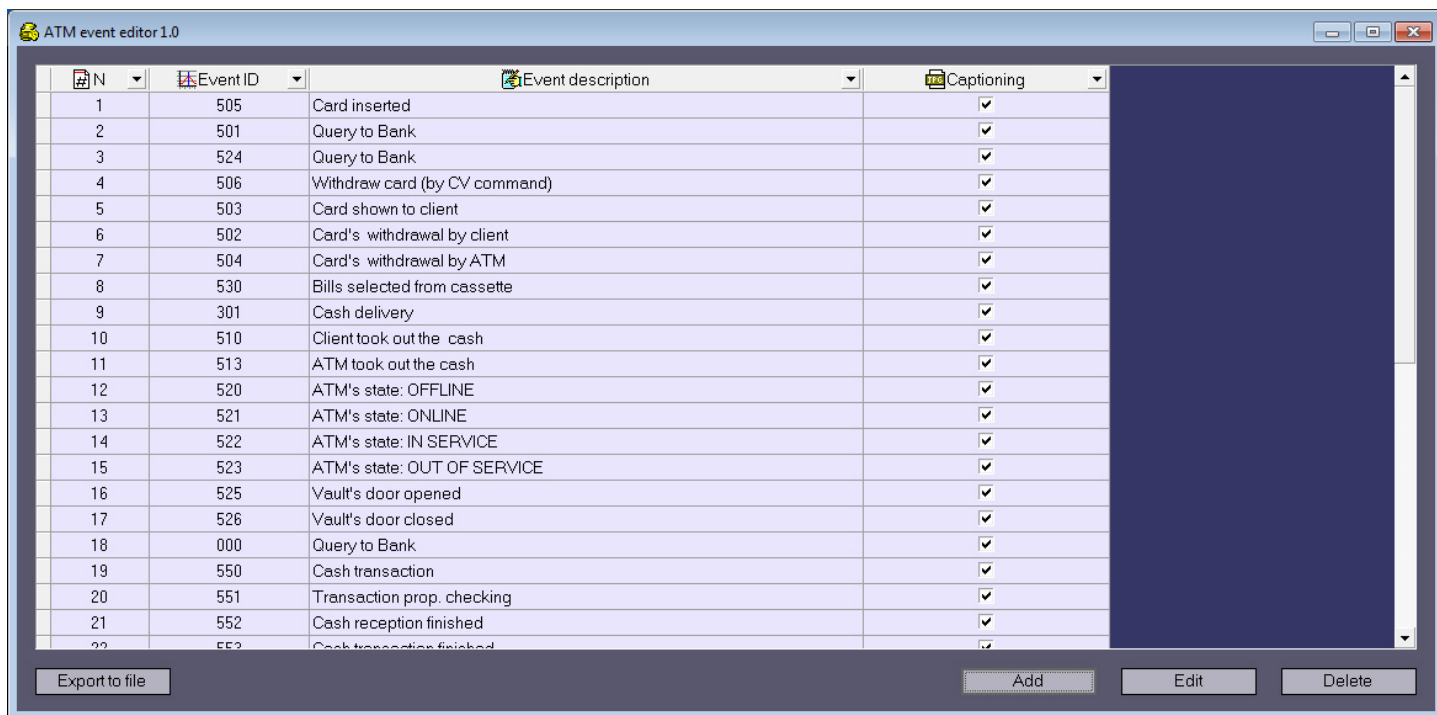
1. Cash operation;
2. Reception of cash is completed;
3. Cash delivery to the client;
4. Cancellation: cash delivery;
5. Client took out the cash;
6. ATM took the cash;
7. Safe door opened;
8. Safe door closed.

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

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



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 >ATM Event Editor**. In the window that appears, edit the corresponding entry by clearing the corresponding check box in the **Captioning** column. Then quit and start *ATM-Intellect Pro* again.



### 14.5.3 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 for 32-bit OS (HKLM\SOFTWARE\Wow6432Node\ITV\EventATM\LogEnable for 64-bit). After you quit and start ATM Event Capture again, the file EventATM.log appears in the installation folder.

Name	Type	Data
(Default)	REG_SZ	(value not set)
CDM	REG_SZ	CurrencyDispenser1
IDC	REG_SZ	IDCardUnit1
InstallPath	REG_SZ	C:\Program Files\EventATM\
IpAddress	REG_SZ	127.0.0.1
JmMode	REG_SZ	0
JmPath	REG_SZ	C:\JOURNAL\
JmTrack2Substring	REG_SZ	(TRACK 2 DATA):
LogEnable	REG_SZ	1
TcpPort	REG_SZ	8888
TID	REG_SZ	386