

AxxonSoft

ATM–Intellect

Administrator's Guide

Version 1.3

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1 List of abbreviations used

Workstation – automated workstation.

Workstation TC – automated workstation at the technical center.

2 Introduction

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

This guide contains the following information:

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

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 (Figure 3.2—1):

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*).

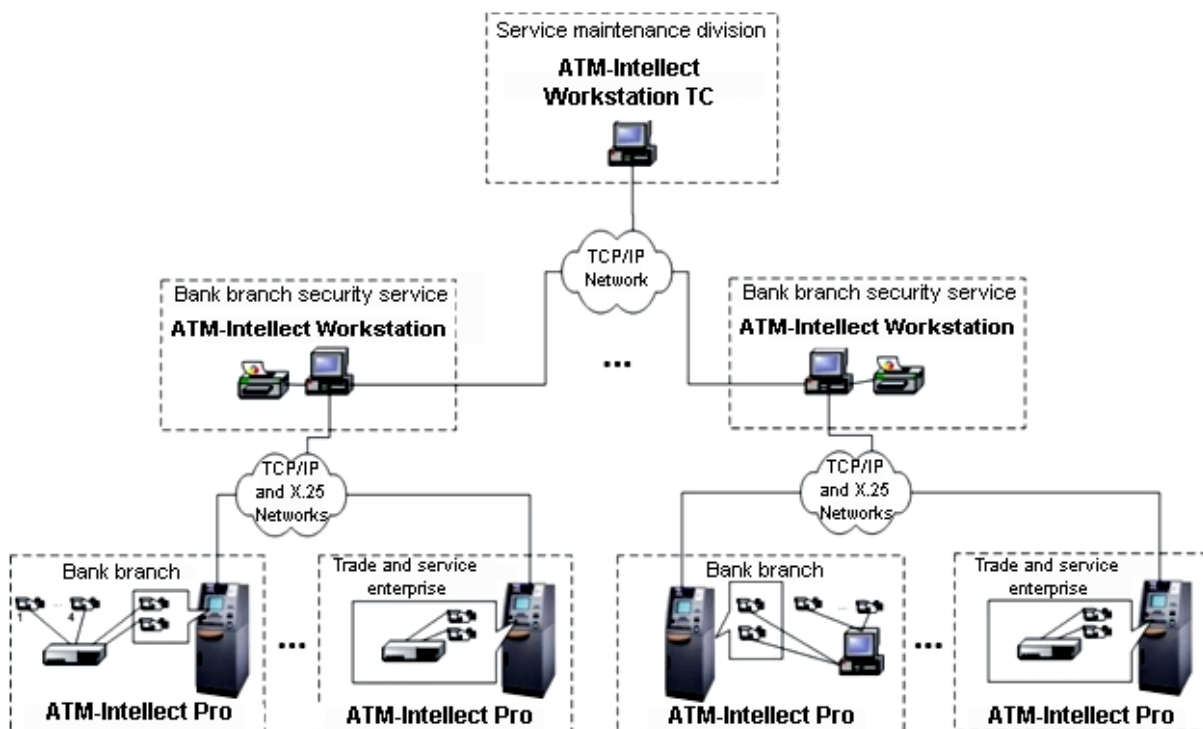


Figure 3.2—1 VSSoAN ATM-Intellect structure

ATM-Intellect Pro is placed directly at the installation site of ATMs in bank branches or trade and service enterprises. *ATM-Intellect Pro* provides a recording of

the video coming from the camera into a local video archive, digital signal processing from discrete sensors installed on the ATM and transfer of alarm messages on *ATM-Intellect Workstation*.

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

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

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

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

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

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

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

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:

7. receiving, recording and visualization of messages about the *ATM-Intellect Pro* components health and communication channels;
8. viewing logs of *ATM-Intellect Workstation TC* operation;
9. 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:

10. recording the primary video coming from cameras mounted on site ATM in the video archive;
11. displaying video from Cameras and playback recordings on the *ATM-Intellect Pro* security post;
12. receiving, processing and registration messages from the ATM;
13. receiving, processing and registration of signals from sensors installed both inside and outside the ATM;
14. detection of skimming devices installation in the input card area in the ATM card reader;
15. 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);
16. transfer to the *ATM-Intellect Workstation TC* (via *ATM-Intellect Workstation*) data on the technical condition of *ATM-Intellect Pro* components;
17. receiving and processing requests for information search in the video archive, generation and transfer of results (video parameters satisfying the query);
18. 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*.

4 Hardware and software 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 *Administrator's Guide*).

The standard OS settings do not need to be changed for installation. On Windows Vista or latest OS, you must disable UAC. In Windows 8 and 8.1 it is necessary to configure security policies in order to entirely disable UAC (configuring security policies is described in the *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 Installation steps

5.1 Installer description

The installer for *ATM-Intellect* is built on InstallShield 2010 and includes the following files (Figure 5.1—1):

1. setupATMIntellARM.exe for ATM-Intellect Workstation installation.
2. setupATMIntellARMtc.exe for ATM-Intellect Workstation TC installation.
3. setupATMIntellPro.exe for ATM-Intellect Pro installation.
4. setupEventATM.exe for ATM Event Capture utility installation.

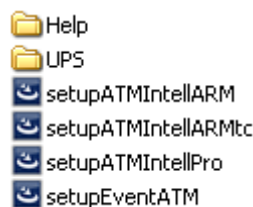


Figure 5.1—1 ATM-Intellect installation files

Documentation is available in the Help folder. Software components necessary for monitoring by *ATM-Intellect Pro* of the status of uninterruptible power supplies (UPS units) are found in the UPS folder.

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

5.2 Preparing to install

First, install Intellect in the remote administrator's workstation mode (RAW). Intellect installation is described in the *INTELLECT Software Package. Administrator's Guide*.

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

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

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

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

ATM-Intellect software supports the following database servers:

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

5.3 Installation steps for ATM-Intellect Workstation

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

1. Start the file setupATMIntellARM.exe from the installation kit. The installation wizard informs that the installation process has begun (Figure 5.3—1).

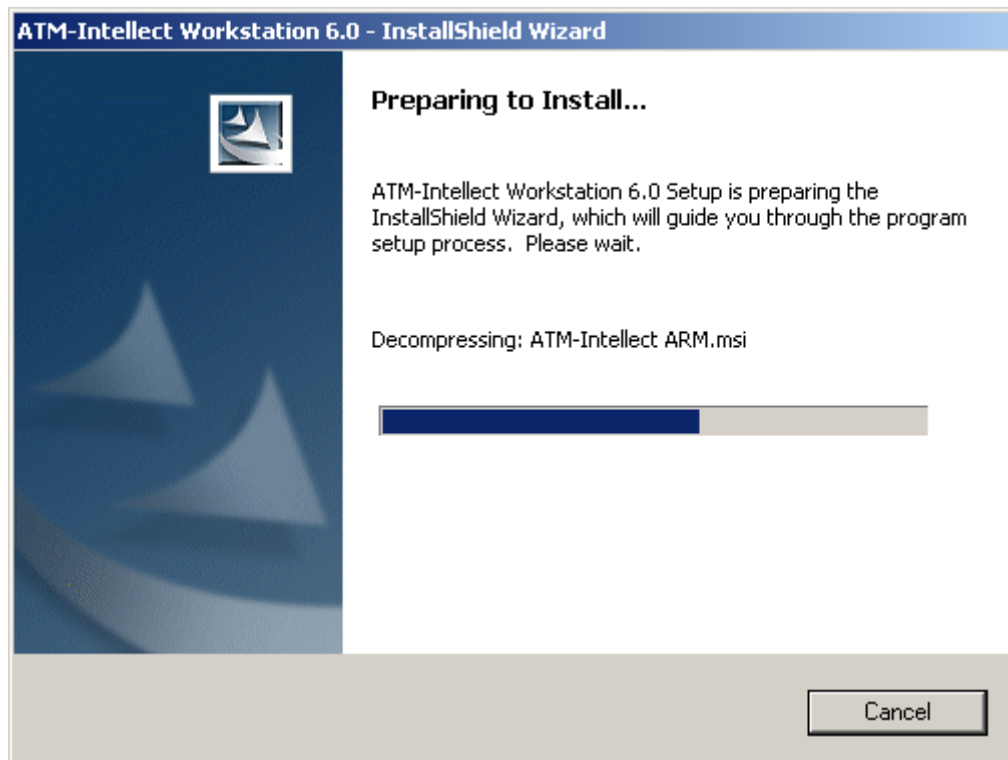


Figure 5.3—1 Preparing to Install

2. You are prompted to start installation (Figure 5.3—2). Click the **Next** button.

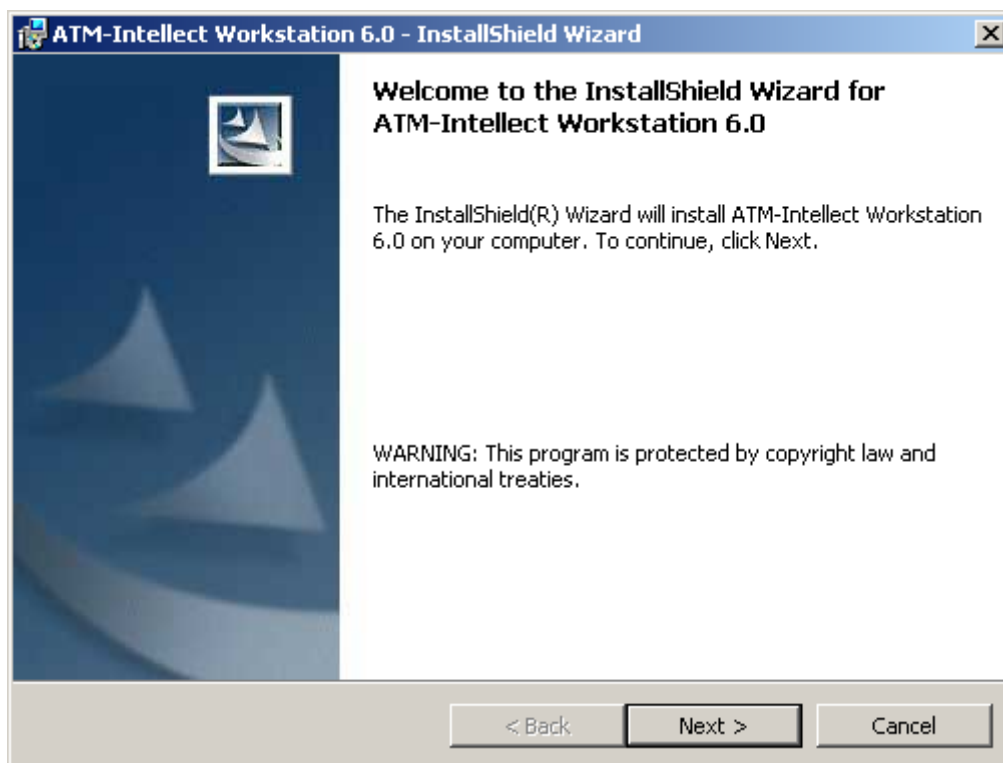


Figure 5.3—2 Installation beginning

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** (Figure 5.3—3).

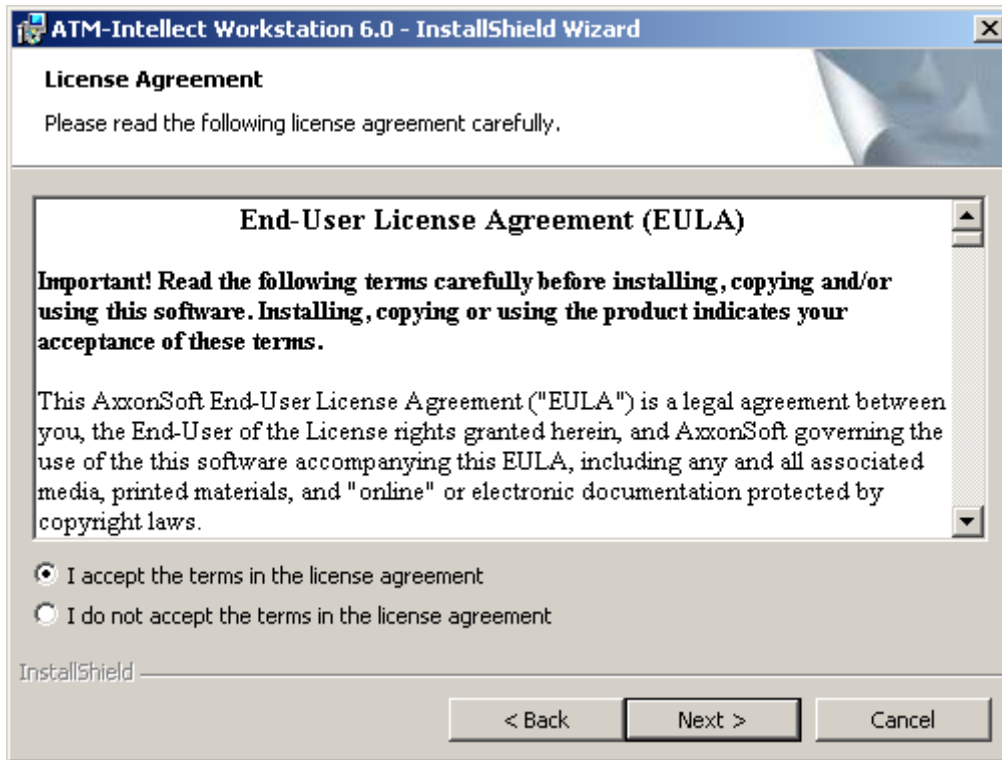


Figure 5.3—3 License Agreement

4. You will see the MonitorSSTV database installation page (Figure 5.3—4). In the **Name** field specify the name of the database under which it will be registered.

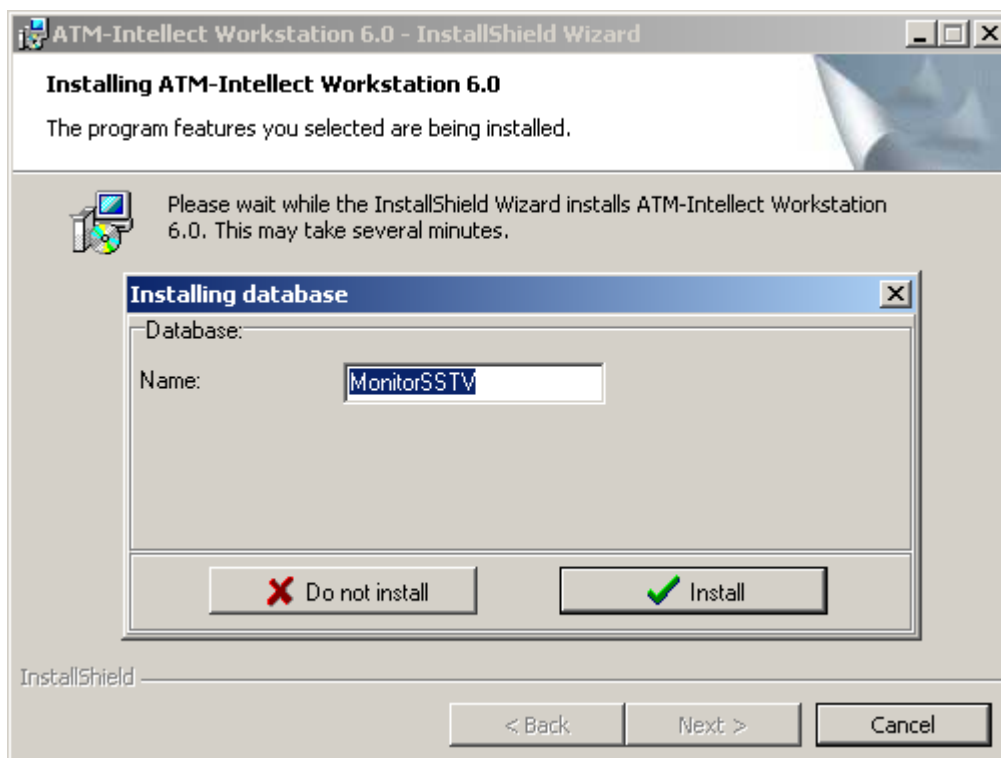


Figure 5.3—4 Database installation

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

5. Click the **Install** button (see Figure 5.3—4).
6. Select the name of the database server and connection settings in the opened pane **Data Link Properties** (Figure 5.3—5). The MS SQL Server 2008 name of the database server consists of two parts – the name of the PC and the name of the server instance, e.g. SHOWROOM5\SQLEXPRESS or (local)\SQLEXPRESS. If a password is used, make sure to check the box **Allow saving password**.

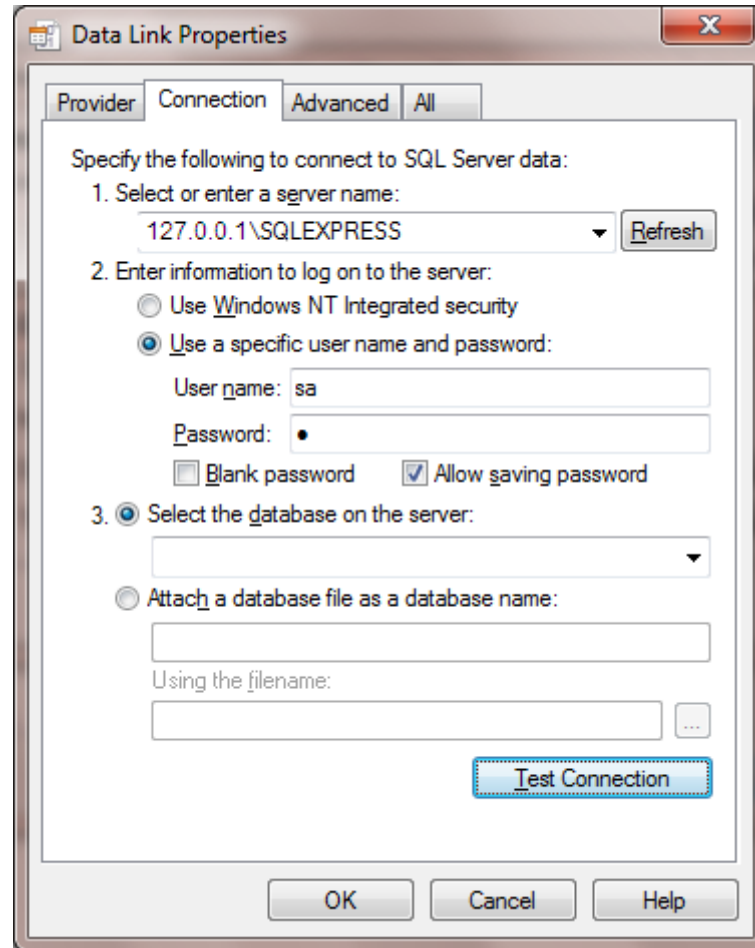


Figure 5.3—5 Data Link Properties

Note. In the 1. Select or enter a server name 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. If the settings are correct and the database server runs successfully, you will see the message **Test connection succeeded** on clicking the **Test connection** button (Figure 5.3—6). Otherwise, you will see an error message.

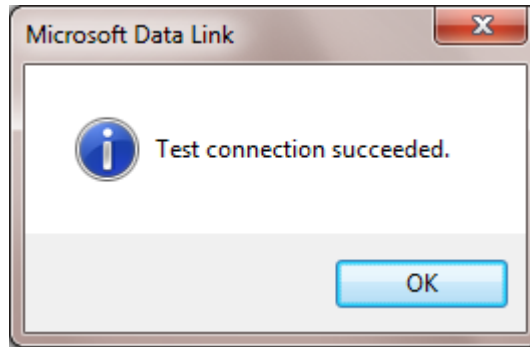


Figure 5.3—6 Message about successful connection test

Note: if not-English version of MDAC components is installed on the PC, the dialog boxes (Figure 5.3—5 and Figure 5.3—6) will not be in English.

8. Click **OK** in **Data Link Properties** (Figure 5.3—5).
9. Click **Install** on the next pane (Figure 5.3—7).

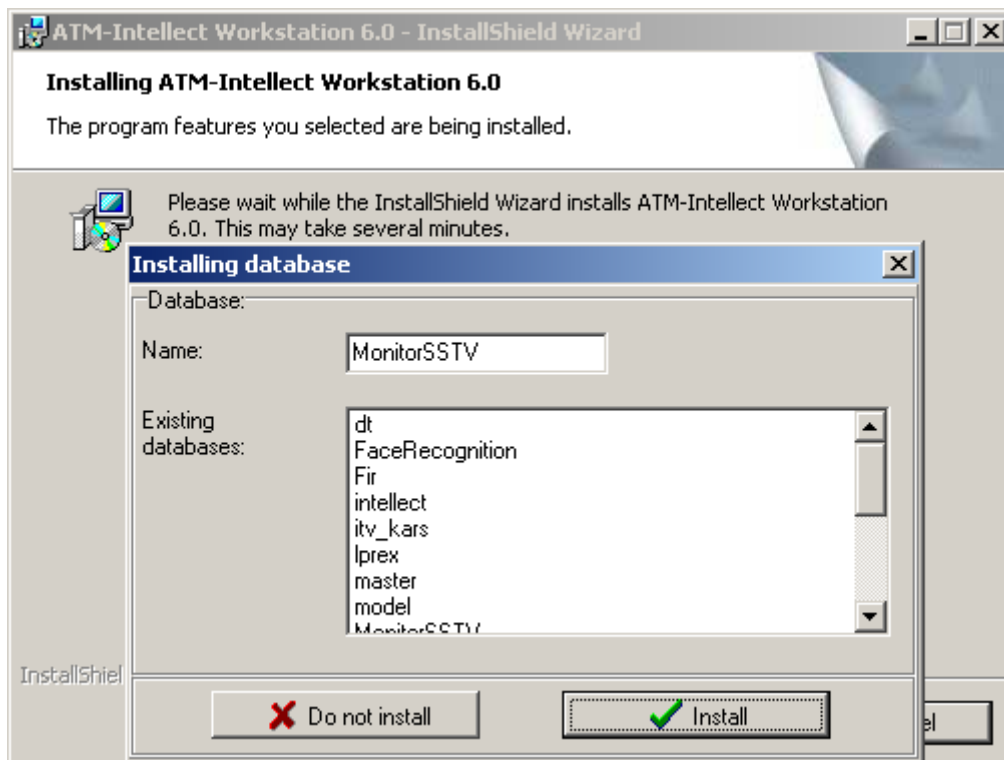


Figure 5.3—7 Confirm database parameters

10. Installation begins (Figure 5.3—8).

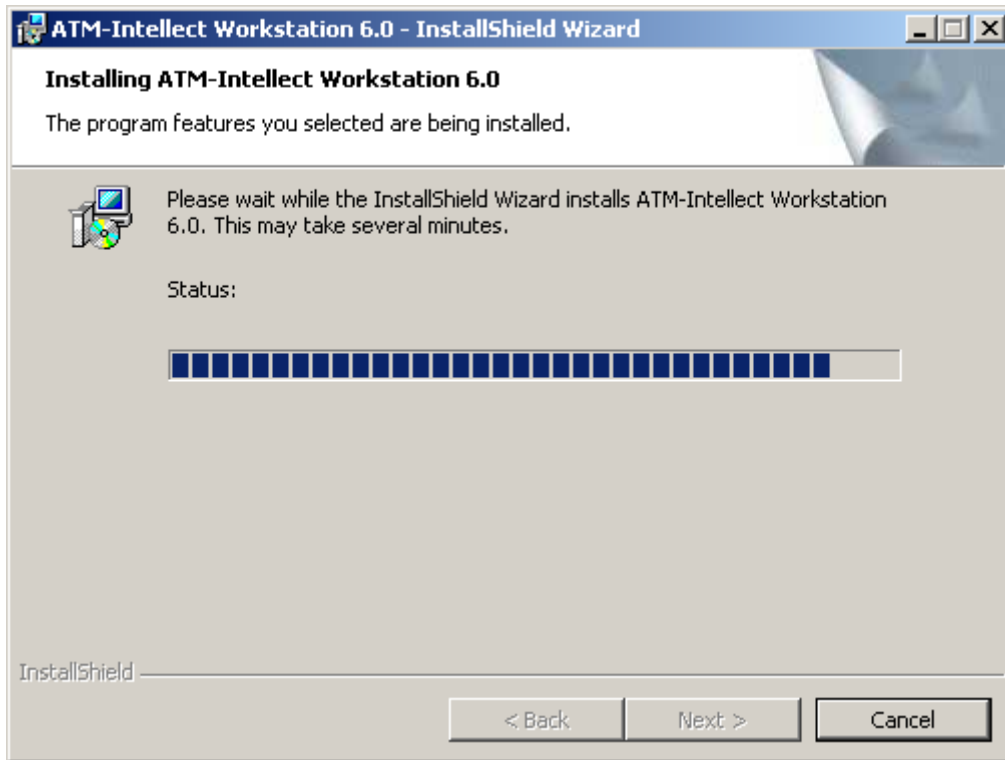


Figure 5.3—8 Installation status

11. After the final installation tasks are completed, the wizard informs that the software has been successfully installed (Figure 5.3—9).

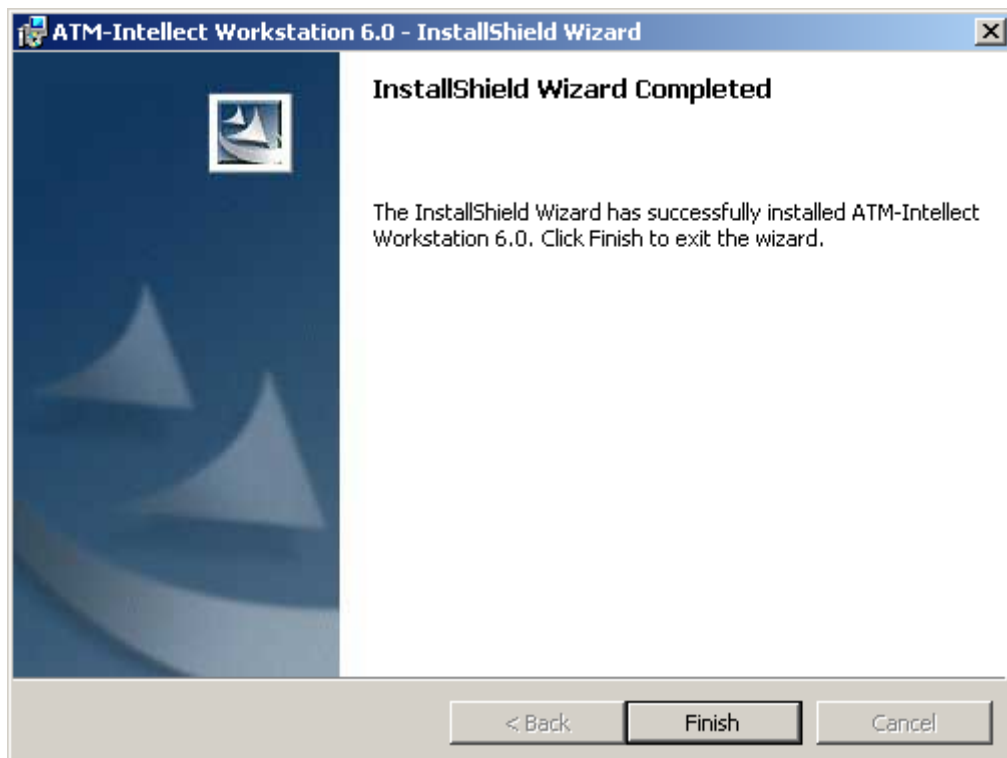


Figure 5.3—9 Installation completed

ATM-Intellect Workstation installation is completed.

5.4 Installation steps for ATM-Intellect Workstation TC

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

1. Start the file setupATMIntellARMtc.exe from the installation kit. The installation wizard informs that the installation process has begun (Fig. 5.4—1).

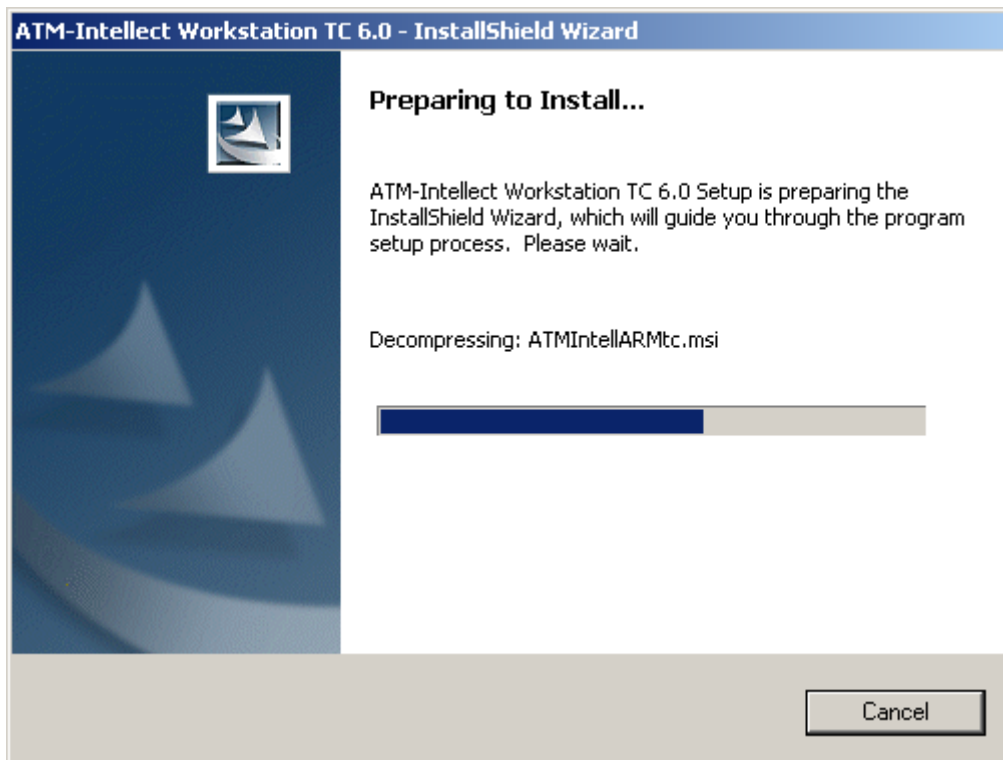


Fig. 5.4—1 Preparing to install

2. You are prompted to start installation (Fig. 5.4—2). Click the **Next** button.

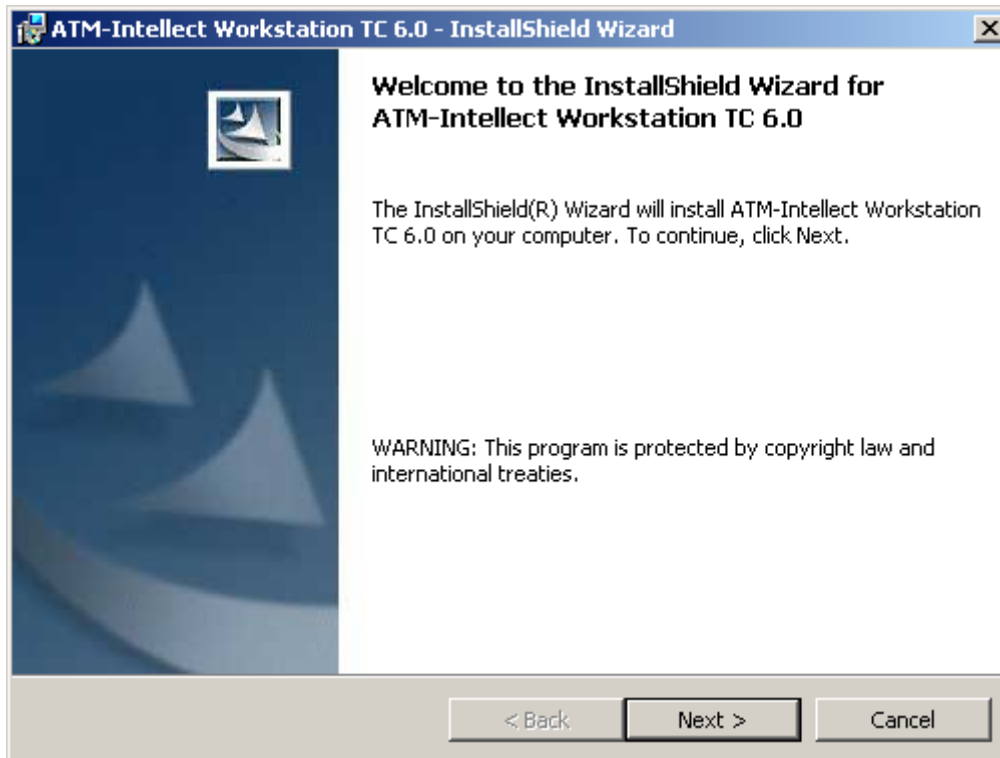


Fig. 5.4—2 Installation beginning

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** (Fig. 5.4—3).



Fig. 5.4—3 License agreement

4. You will see the MonitorSSTV database installation page (Fig. 5.4—4). In the **Name** field enter the name of the database under which it will be registered.

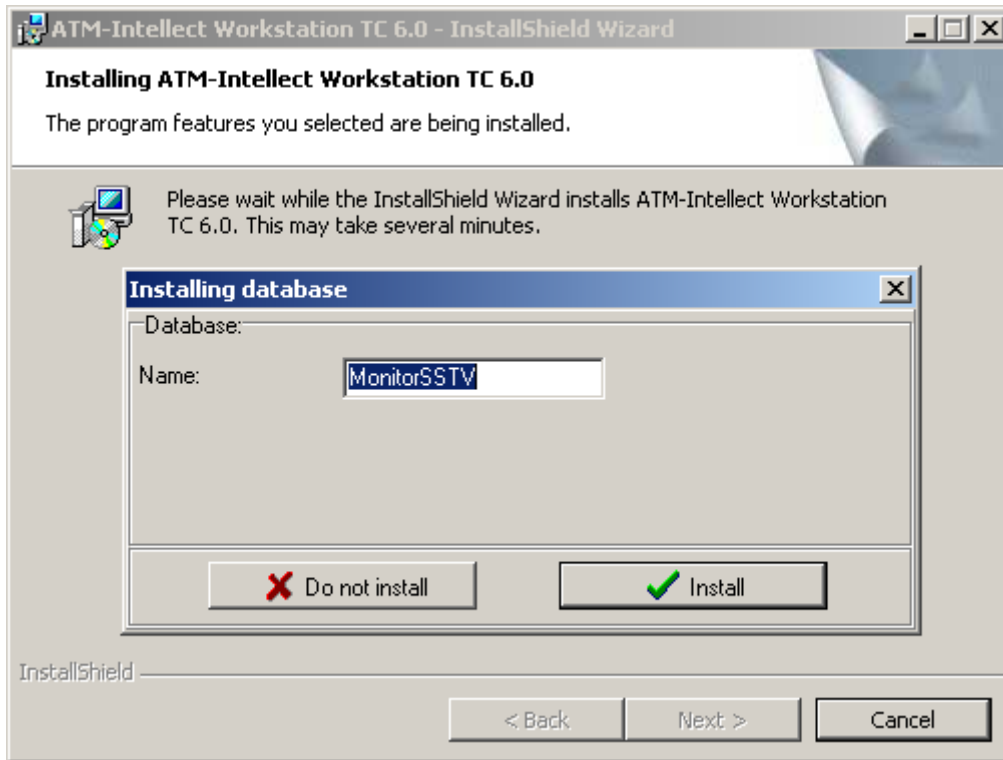


Fig. 5.4—4 Database installation form

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

5. Click the **Install** button (Fig. 5.4—4).
6. Select the name of the database server and connection settings in the opened pane **Data Link Properties** (Fig. 5.4—5). The MS SQL Server 2008 name of the database server consists of two parts – the name of the PC and the name of the server instance, e.g. SHOWROOM5\SQLEXPRESS or (local)\SQLEXPRESS. If a password is used, check the box **Allow saving password**.

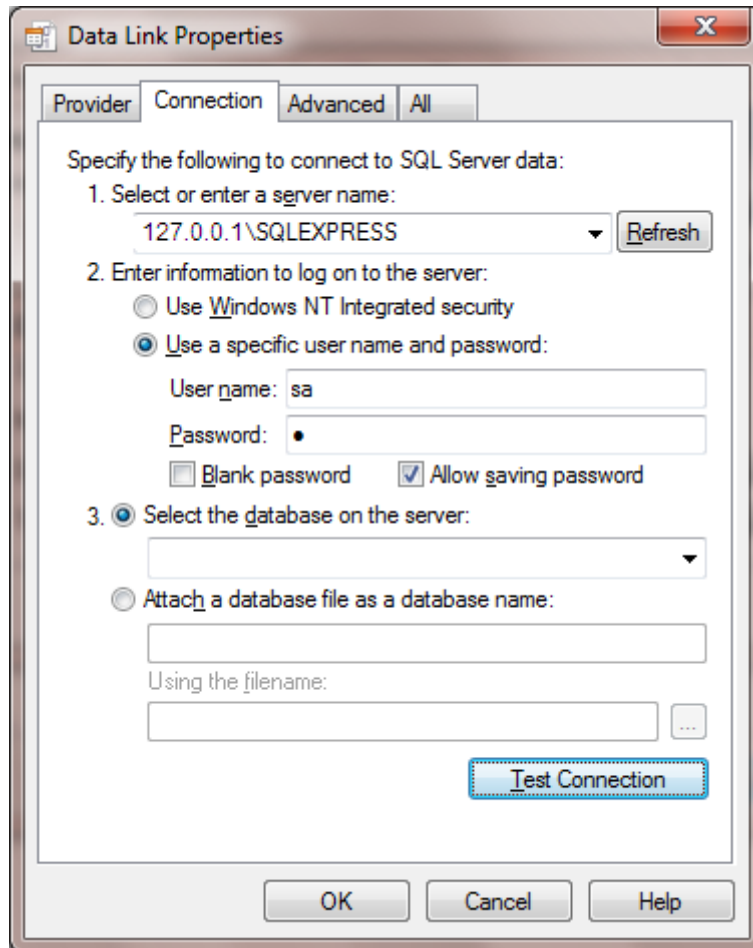


Fig. 5.4—5 Data link properties

Note. In the **1. Select or enter a server name** field specify the "127.0.0.1" value instead of computer name or "(local)" value, e.g. "127.0.0.1\SQLEXPRESS". Otherwise, while the disconnecting the network cable the connection between the ATM-Intellect Workstation ARM TC and its local database will be lost.

7. If the settings are correct and the database server runs successfully, you will see the message **Test connection succeeded** on clicking the **Test connection** button (Fig. 5.4—6). Otherwise, you will see an error message.

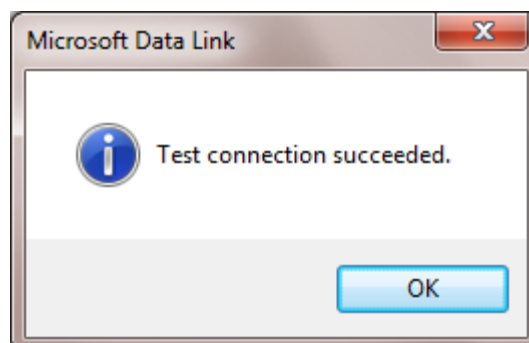


Fig. 5.4—6 Test connection succeeded

Note: if the English version of MDAC components is installed on the PC, the dialog boxes (Fig. 5.4—5 and Fig. 5.4—6) will be in English.

8. Click **OK** in **Data Link Properties** (Fig. 5.4—5).
9. Click **Install** on the next pane (Fig. 5.4—7).

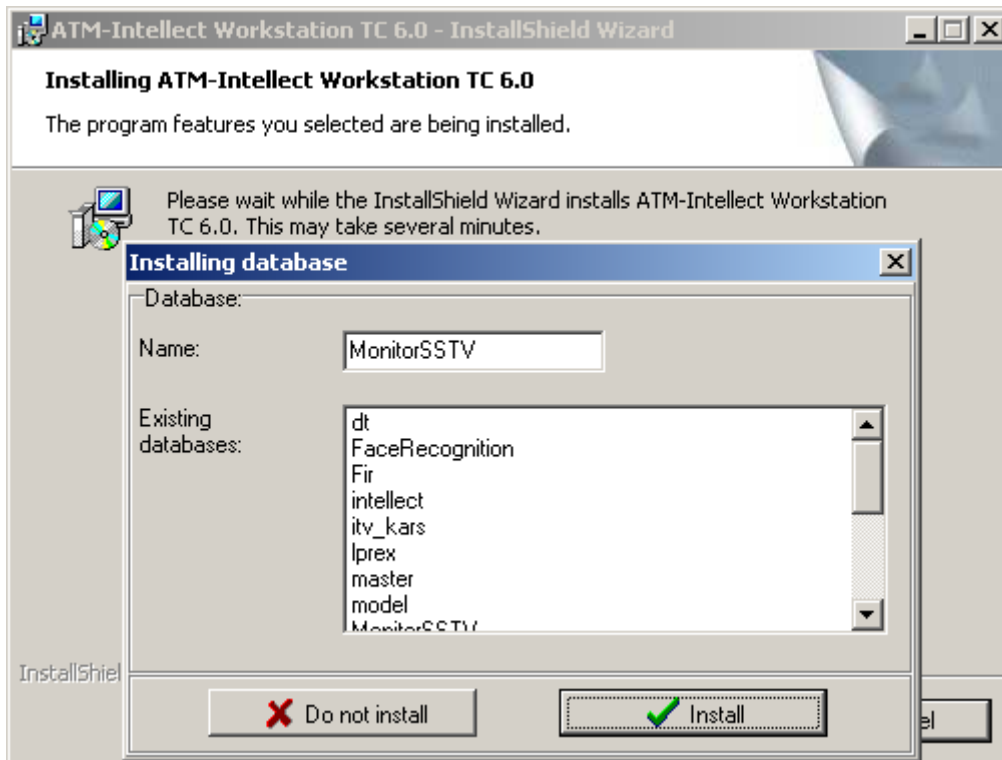


Fig. 5.4—7 Confirmation of database installation

10. Installation begins (Fig. 5.4—8).

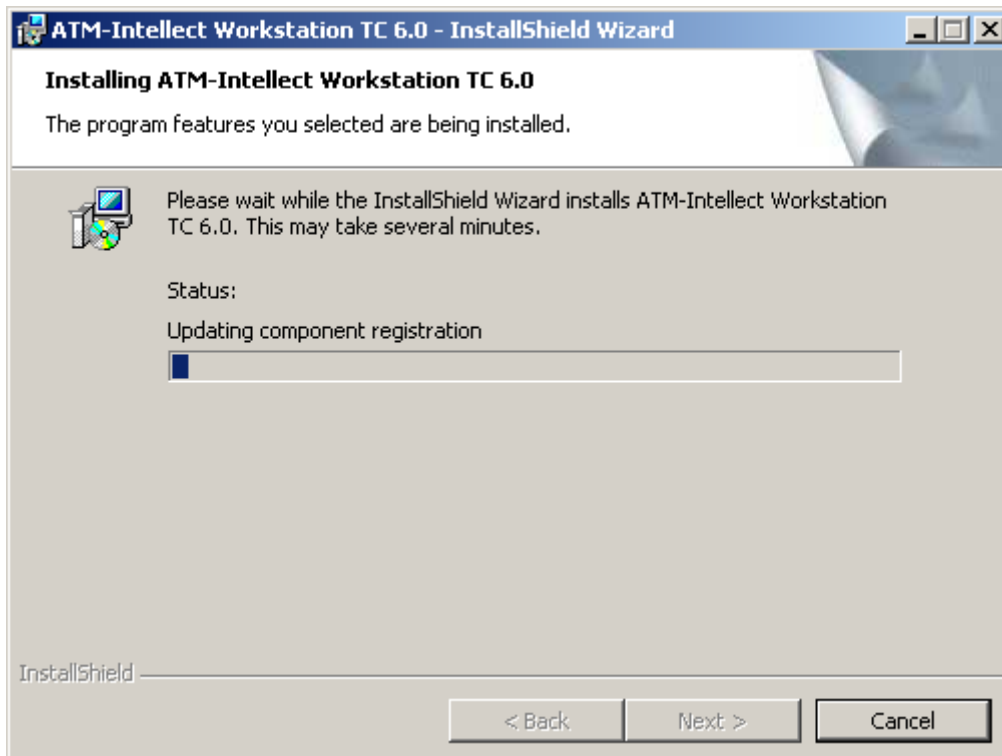


Fig. 5.4—8 Installation process

11. After the final installation tasks are completed the wizard informs that the software has been successfully installed (Fig. 5.4—9).

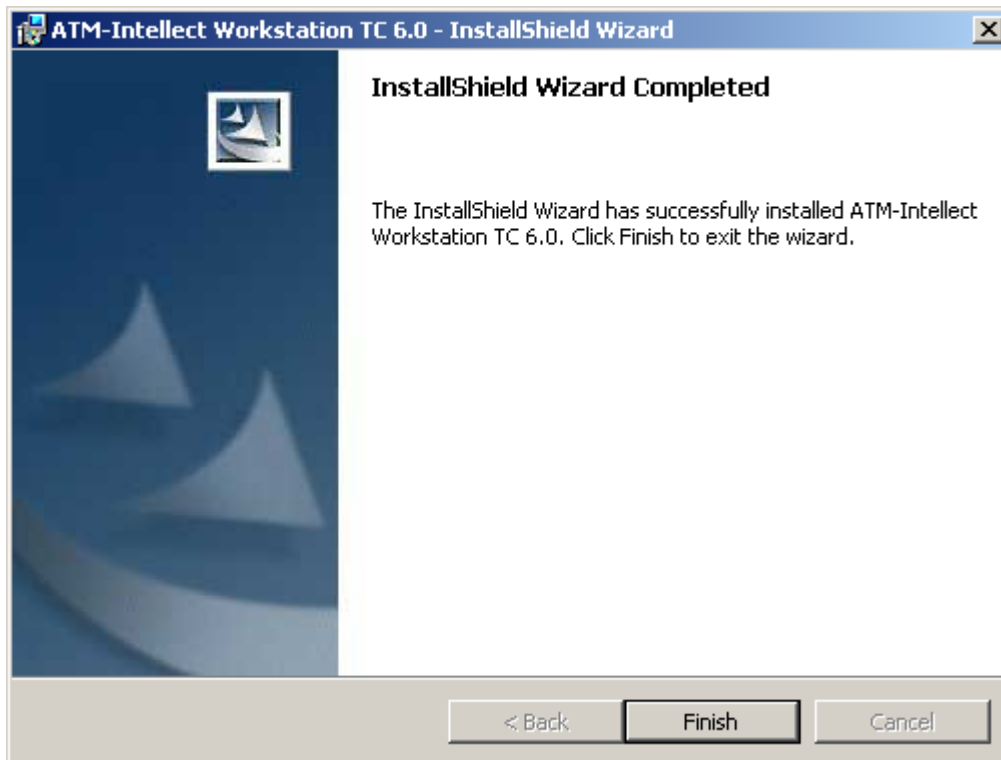


Fig. 5.4—9 Installation completed

ATM-Intellect Workstation TC installation is completed.

5.5 Installation steps for ATM-Intellect Pro

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

1. Start the file `setupATMIntellPro.exe` from the installation kit. After you select a language for installation, the installation wizard informs that the installation process has begun (Fig. 5.5—1)

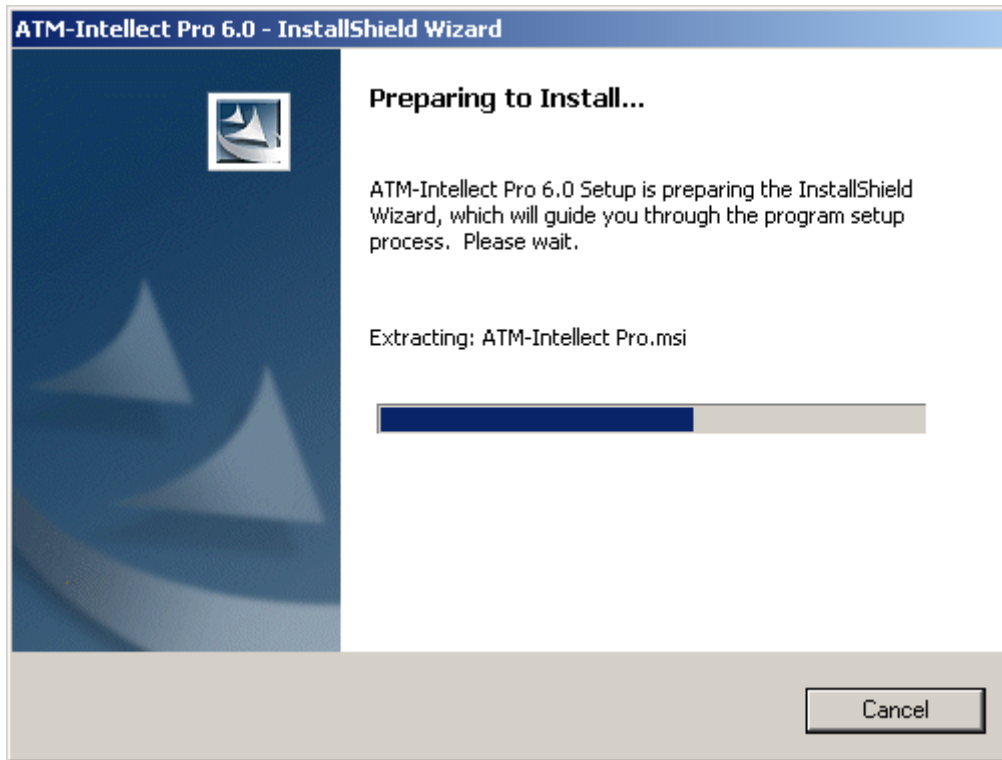


Fig. 5.5—1 Preparing to install

2. You are prompted to start installation (Fig. 5.5—2). Click the **Next** button.

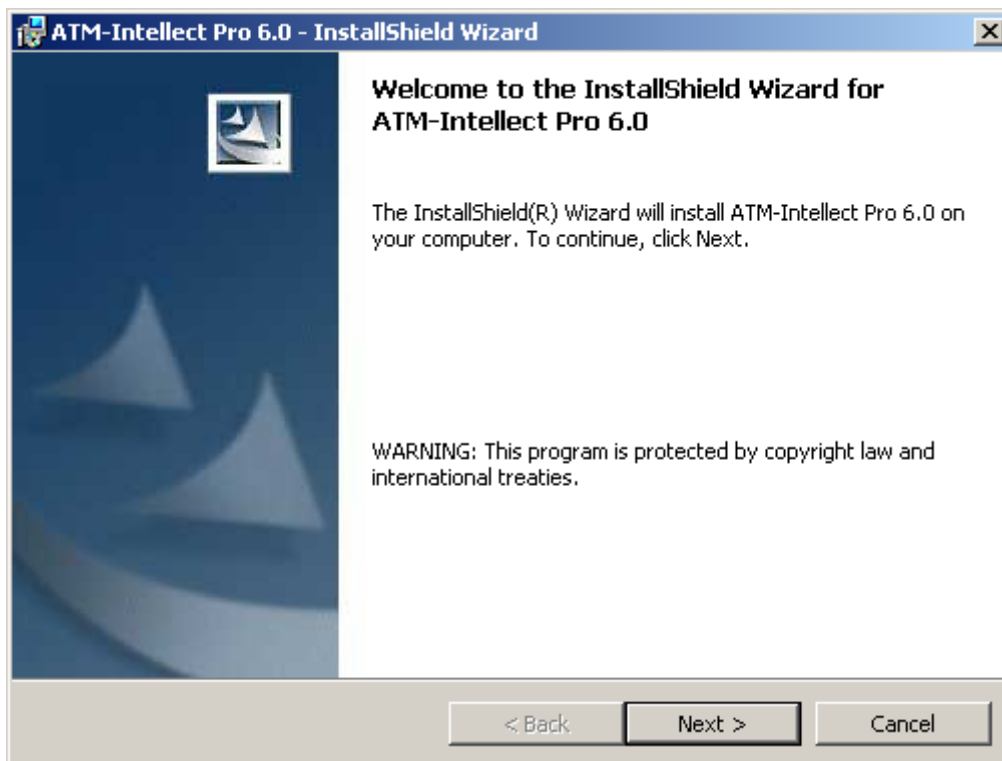


Fig. 5.5—2 Installation beginning

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** (Fig. 5.5—3).

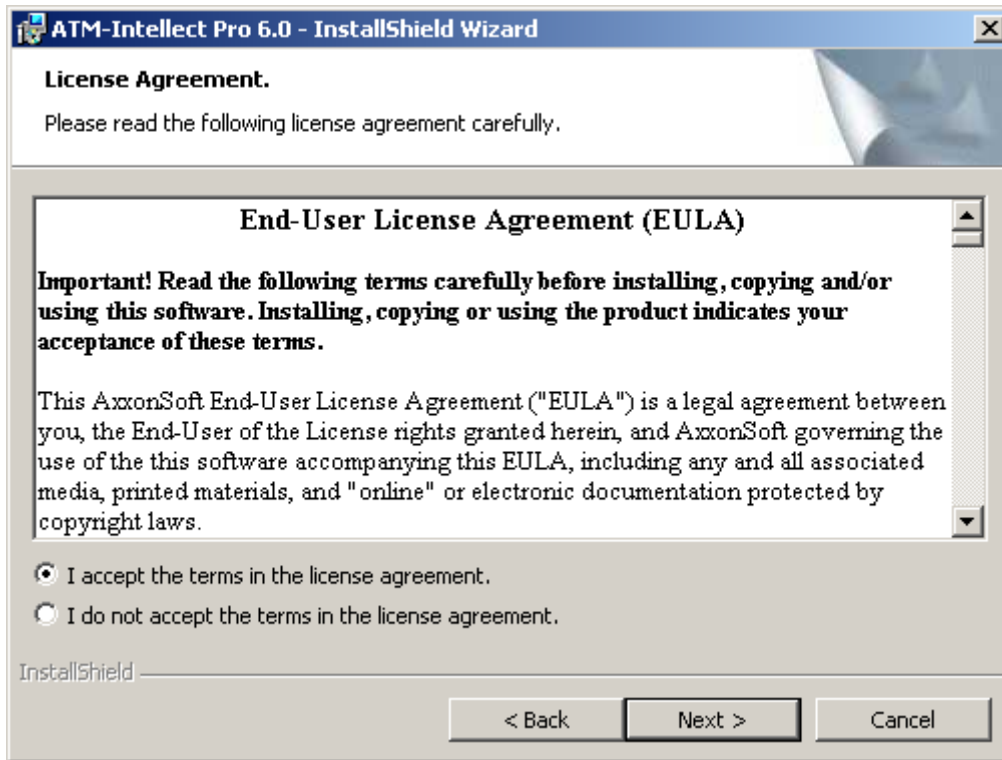


Fig. 5.5—3 License agreement

4. Installation begins (Fig. 5.5—4).

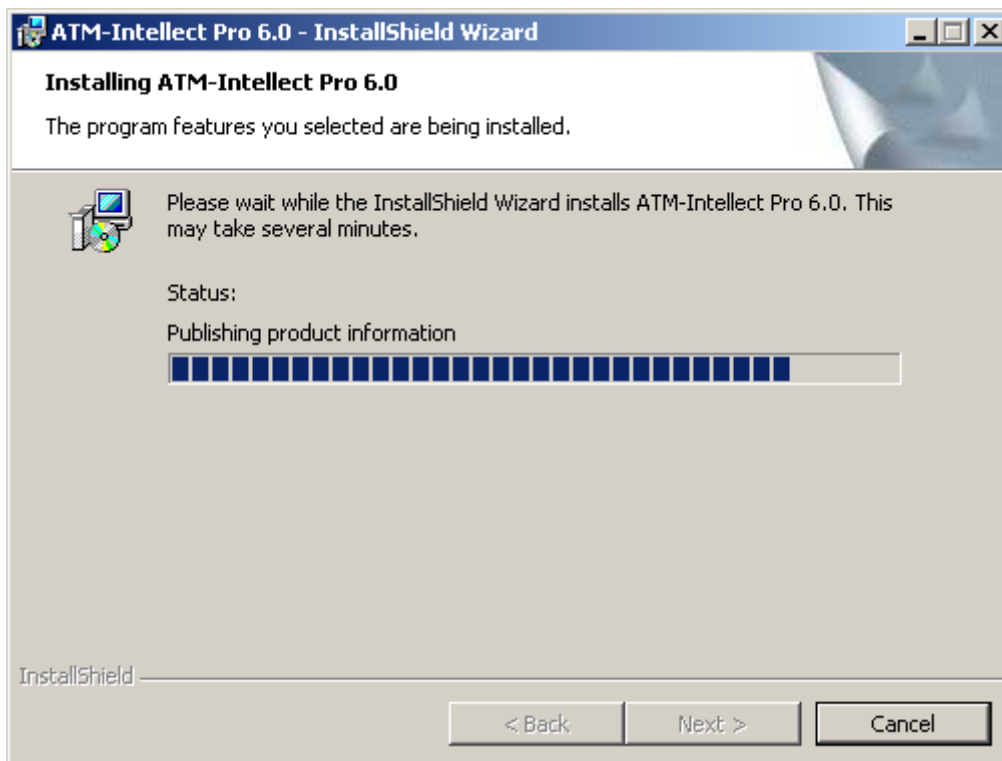


Fig. 5.5—4 Installation status

5. After the final installation tasks are completed, the wizard informs that the software has been successfully installed (Fig. 5.5—5).

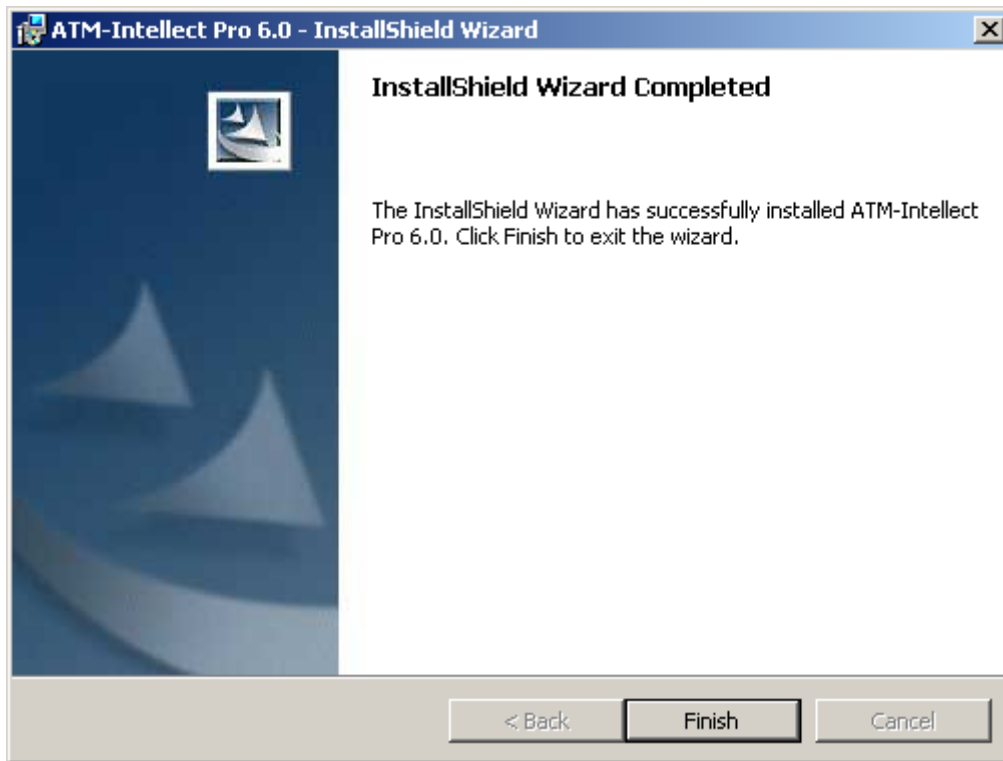


Fig. 5.5—5 Installation completed

ATM-Intellect Pro installation is completed.

6 ATM-Intellect Workstation configuration

ATM-Intellect Workstation configuration is performed in the **System settings** dialog box. Operation is 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 Event Log.
4. Configuring data monitoring.
5. Setting reactions on getting images and video clips.

6.2 Creating 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 (Figure 6.2—1, 1).
2. Create the **IIDK Interface** object (Figure 6.2—1, 2). The ID number of the **IIDK Interface** object must be greater than 100 (Figure 6.2—1, 3).

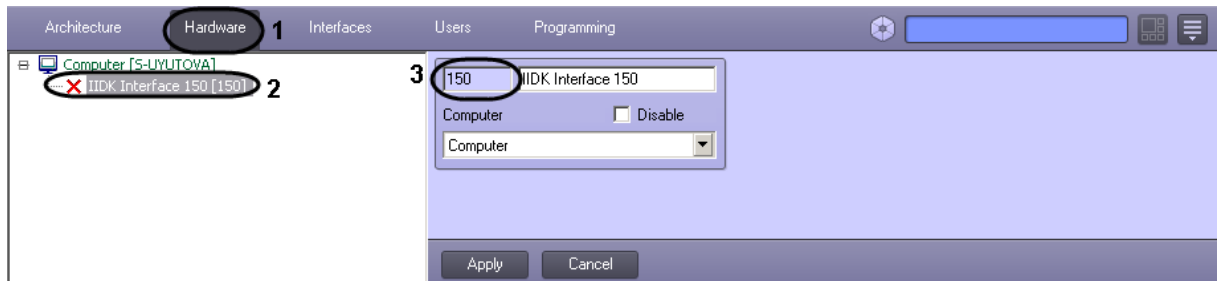


Figure 6.2—1 IIDK Interface object

3. Then create the **ATM-Intellect Workstation** object (Figure 6.2—2).

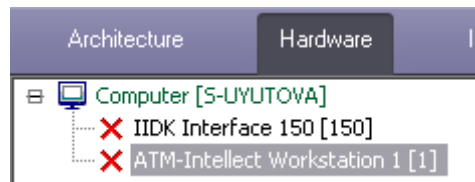


Figure 6.2—2 ATM-Intellect Workstation object

4. After the **ATM-Intellect Workstation** object is created, its setting panel appears in the right of **System settings** dialog box (Figure 6.2—3).

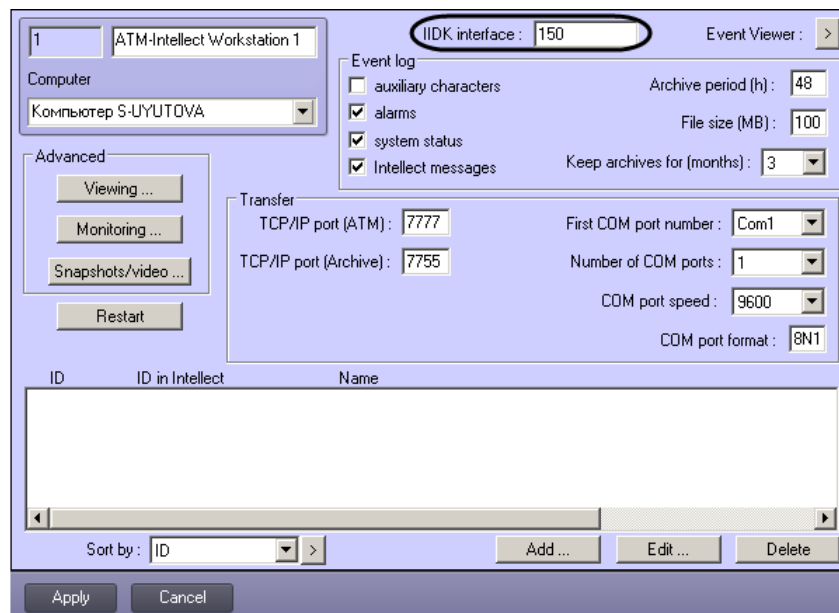


Figure 6.2—3 Settings panel of the ATM-Intellect workstation object

5. In the **IIDK interface** field enter the identification number of the **IIDK interface** object created on step 2 (see Figure 6.2—3).
6. Create **ATM machine** objects corresponding to the connected ATMs (Figure 6.2—4).

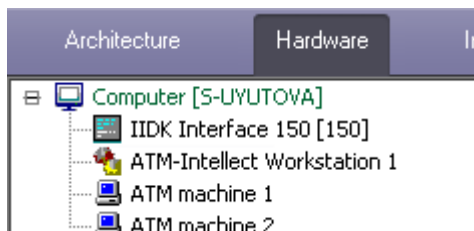


Figure 6.2—4 ATM machine objects

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

Objects creation is completed.

6.3 Setting up a connection

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 (Figure 6.3—1).

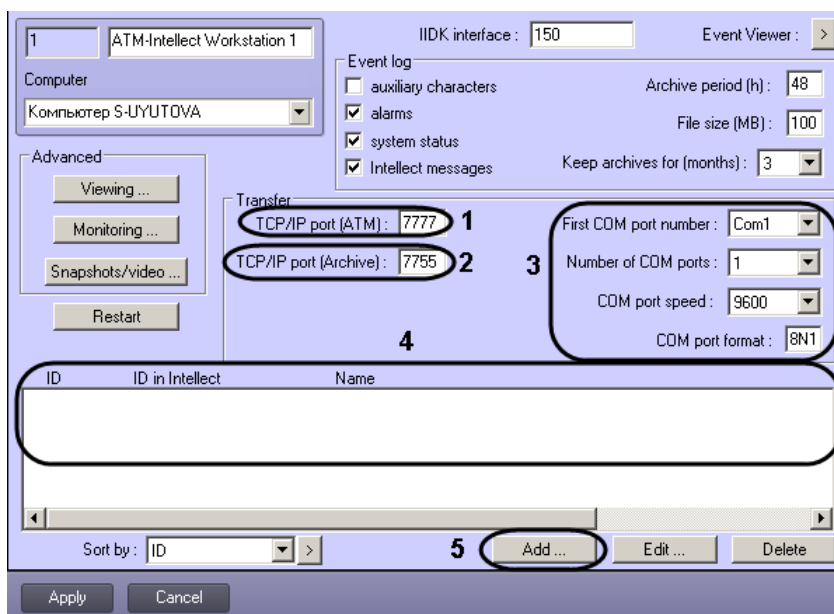
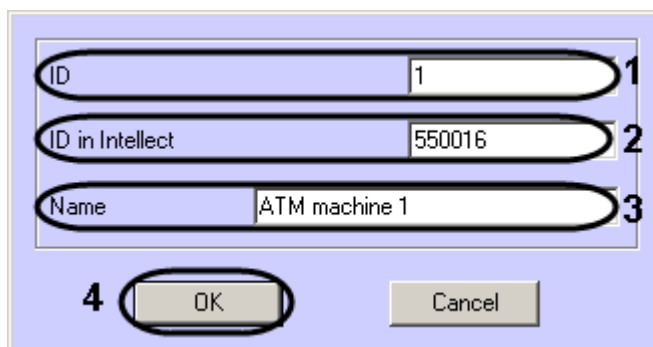


Figure 6.3—1 Setting up a connection

2. Set up TCP/IP connection:
 - 2.1. In the **TCP/IP port (ATM)** field enter the TCP/IP port for communication with remote objects (see Figure 6.3—1, 1).
 - 2.2. In the **TCP/IP port (Archive)** field enter the TCP/IP port for communication with the module *Search in archive* (see Figure 6.3—1, 2).
3. For operations via the RS232 protocol, the following parameters are configured: **First COM port number, Number of COM ports, COM port speed, COM port format** (see Figure 6.3—1, 3).
4. Specify the list of ATMs (see Figure 6.3—1, 4):

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

- 4.1. Press **Add...** button (see Figure 6.3—1, 5). A dialog box for adding ATM will appear (Figure 6.3—2).



The image shows a dialog box titled 'Adding ATM' with a light blue background. It contains three text input fields stacked vertically. The first field is labeled 'ID' and contains the number '1'. The second field is labeled 'ID in Intellect' and contains the number '550016'. The third field is labeled 'Name' and contains the text 'ATM machine 1'. Below the fields are two buttons: 'OK' and 'Cancel'. The fields and buttons are numbered 1 through 4 respectively with small black numbers to their right.

Figure 6.3—2 Adding ATM dialog box

- 4.2. The **ID** field must be the same as the **ID** field in the *ATM-Intellect Pro* settings (see Figure 6.3—2, 1).
 - 4.3. The fields **ID in Intellect** (see Figure 6.3—2, 2) and **Name** (see Figure 6.3—2, 3) must match the **Number** and **Name** fields of the corresponding **ATM machine** object.
 - 4.4. Press **OK** (see Figure 6.3—2, 4).
 - 4.5. Repeat steps 4.1-4.4 for all required ATMs.
5. Press **Apply**.

Setting up a connection is completed.

6.4 Specifying 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 (Figure 6.4—1).

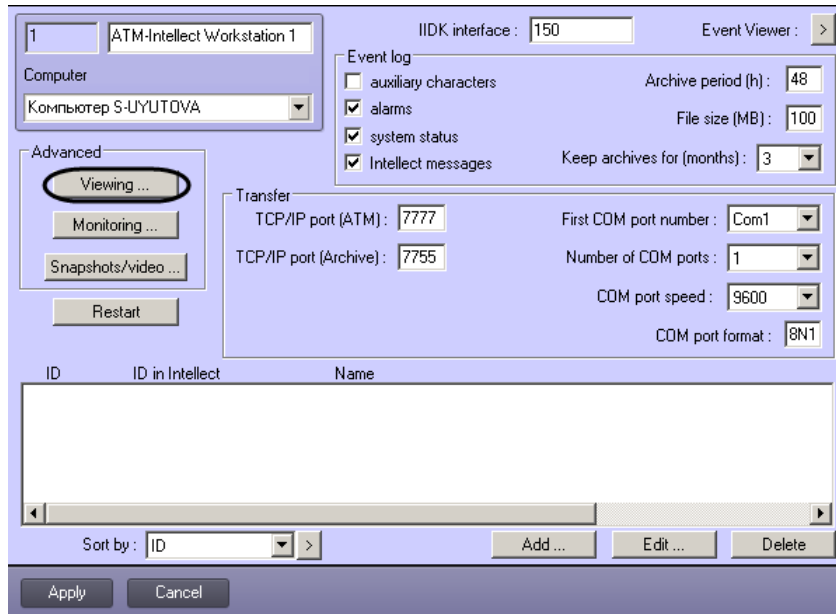


Figure 6.4—1 The Viewing... button

2. Click the **Viewing...** button (see Figure 6.4—1). You will see the dialog box to specify information which will be viewed on the **Event Viewer** pane of Intellect (Figure 6.4—2).



Figure 6.4—2 Specifying information for Event Viewer

3. Check the required events (see Figure 6.4—2).
4. Press **OK**.

Specifying information for Event Viewer window is completed.

6.5 Setting up event log

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

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

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

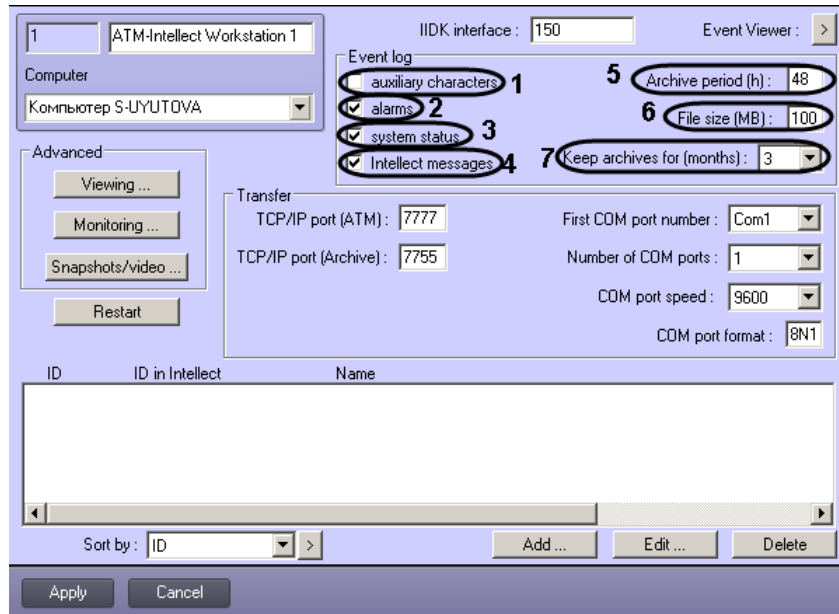


Figure 6.5—1 Setting up the Event log

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

6.6 The Event log utility

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

To start the *Event log* utility (Figure 6.6—1Figure 6.5—1), click the **Event Viewer** button on the **ATM-Intellect Workstation** settings pane.

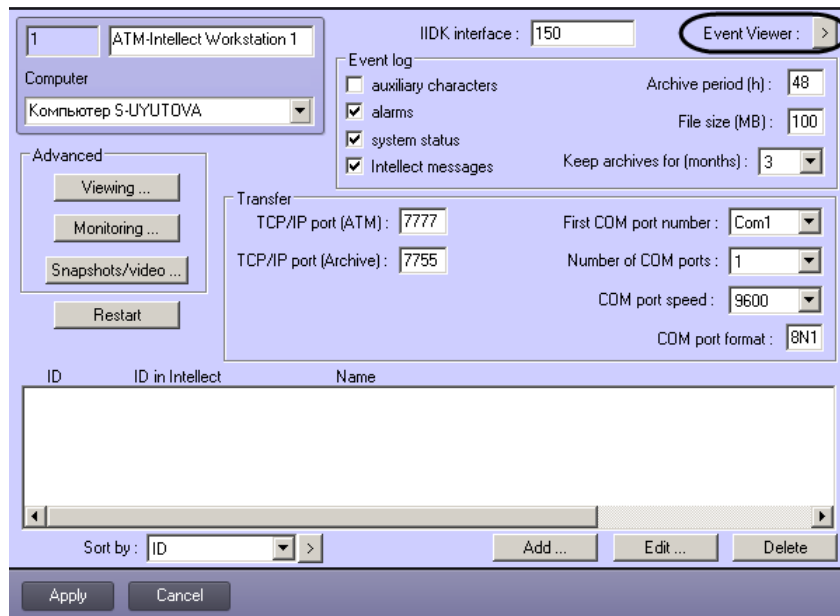


Figure 6.6—1 The Event Viewer button

The *Event log* utility allows to sort and filter data (Figure 6.6—2).

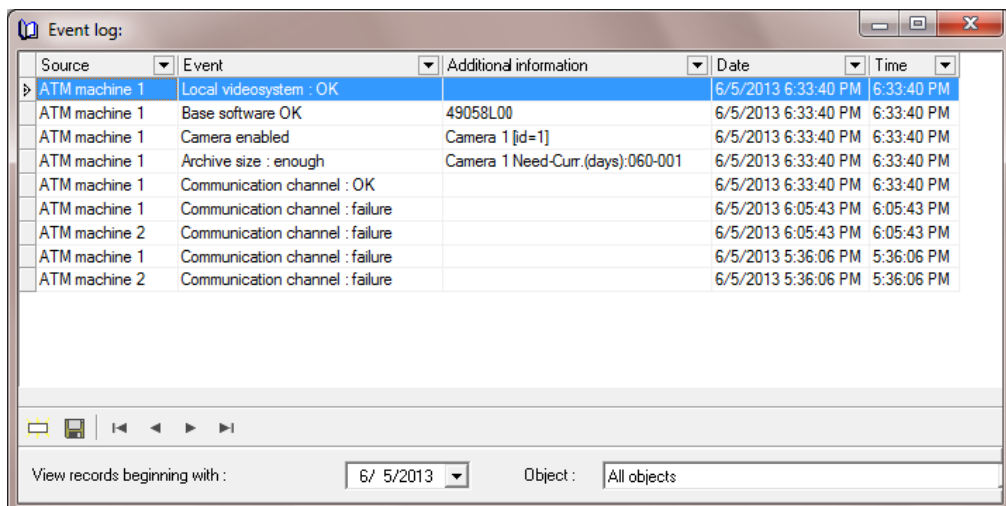


Figure 6.6—2The Event log utility

6.7 Specifying storage time for 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 (Figure 6.7—1, 1).

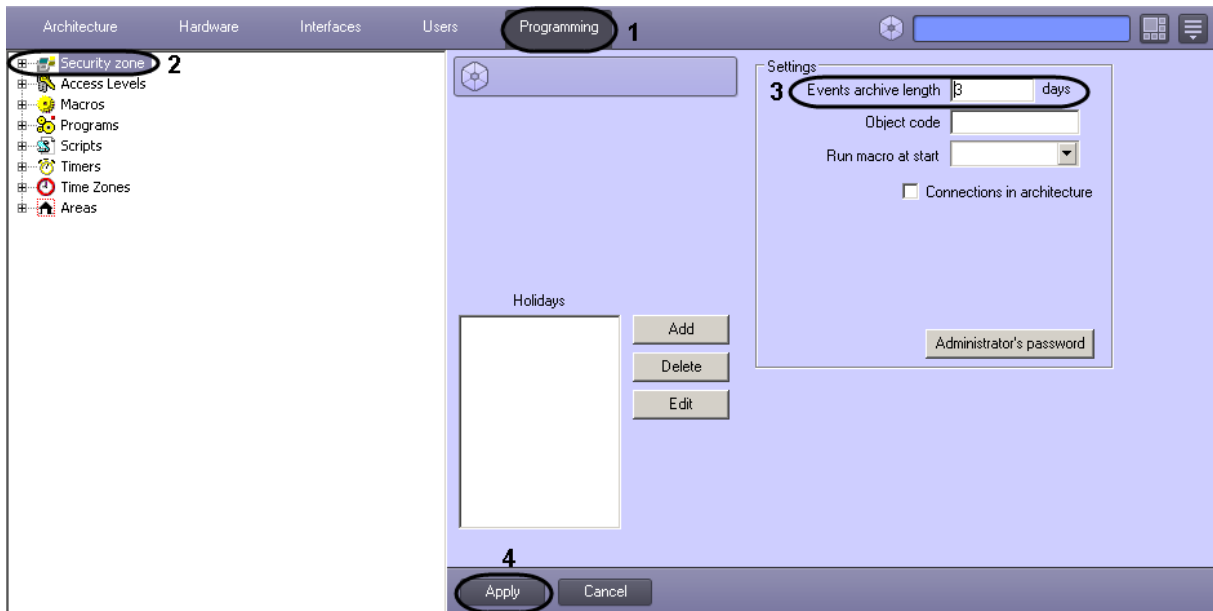


Figure 6.7—1 Specifying storage time for event log

2. Go to the Security zone object setting panel (see Figure 6.7—1, 2).
3. Specify the term of keeping the event log in the **Event archive length** parameter (see Figure 6.7—1, 3).
4. Press **Apply** (see Figure 6.7—1, 4).

Specifying the term of keeping the event log is completed.

6.8 Setting up data monitoring

Data monitoring is set up as follows:

1. Go to the **ATM-Intellect Workstation** setting panel (Figure 6.8—1).

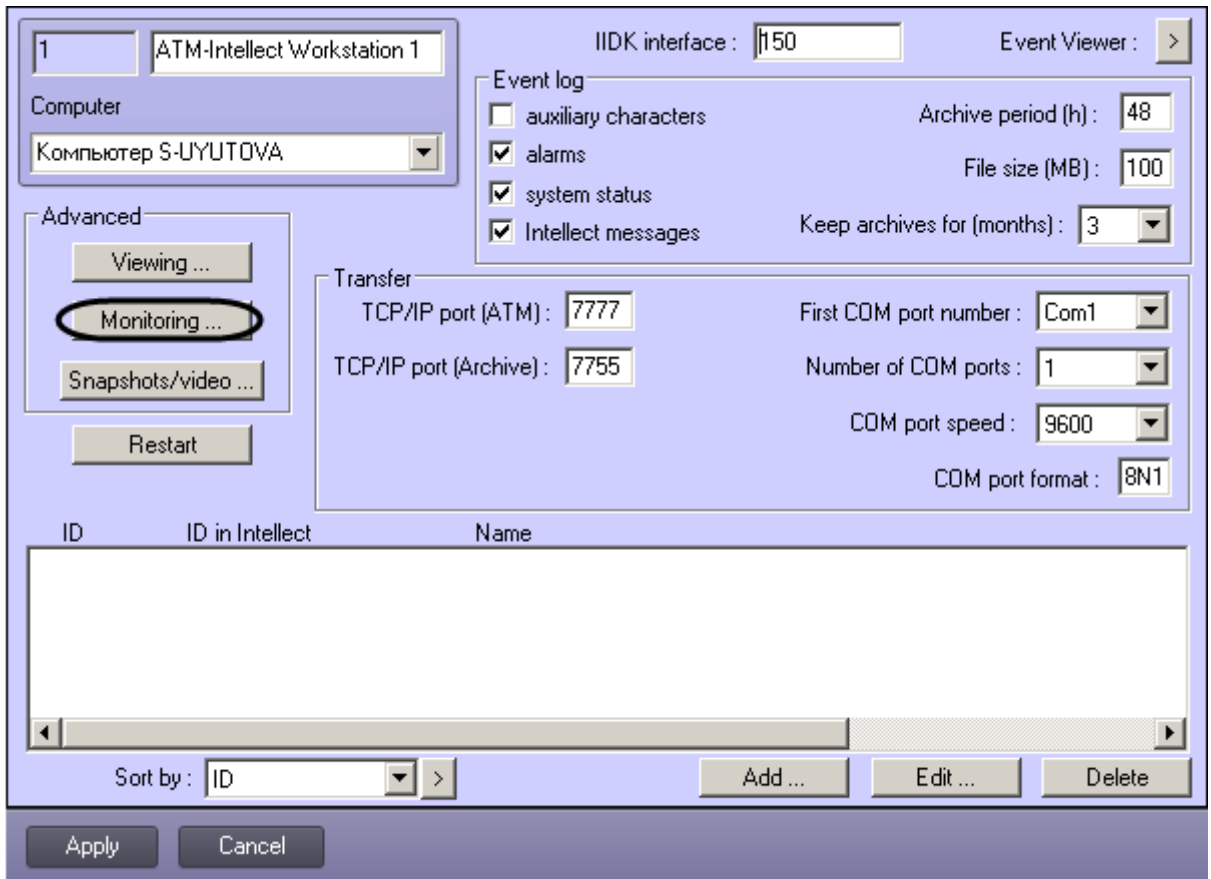


Figure 6.8—1 The Monitoring button

2. Click the **Monitoring...** button (see Figure 6.8—1). The dialog box to set up monitoring appears (Figure 6.8—2).

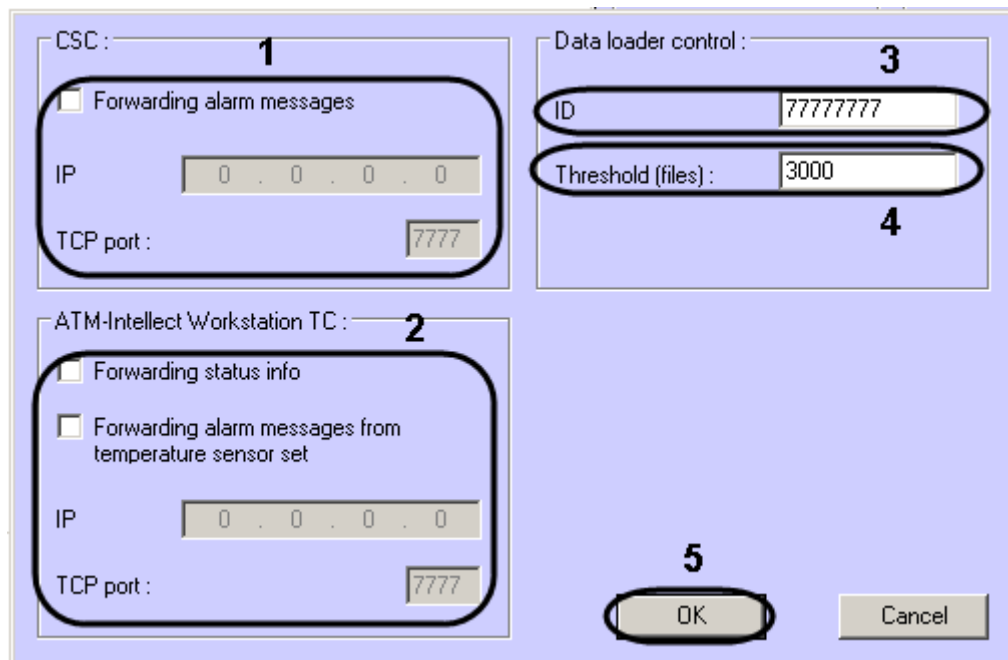


Figure 6.8—2 Setting up data monitoring

3. If Central Security Console (CSC) is installed on CCRVS, enable the **forwarding alarm messages** option and specify the corresponding IP address and TCP port (see Figure 6.8—2, 1).

4. If system health information of the local video surveillance systems must be transmitted to *ATM-Intellect Workstation TC*, enable the **forwarding status info** option in the opened pane (see Figure 6.8—2, 2). Specify the **IP address** and the **TCP port** of the PC on which *ATM-Intellect Workstation TC* is installed.
5. To control the normal operation of the *Data loader* of *ATM-Intellect Workstation*, the following configurable parameters are used:
 - 5.1. **ID** is the unique ID number of *ATM-Intellect Workstation* (similar to *ID* in the *ATM-Intellect Pro* settings) – (see Figure 6.8—2, 3).
 - 5.2. **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* (see Figure 6.8—2, 4).
6. Press **OK** (see Figure 6.8—2, 5).

Configuring data monitoring is completed.

6.9 Setting up the reaction on receiving images and clips

To configure the program for cases when snapshots or video clips are received do the following:

1. Go to the **ATM-Intellect Workstation** setting panel (Figure 6.9—1).

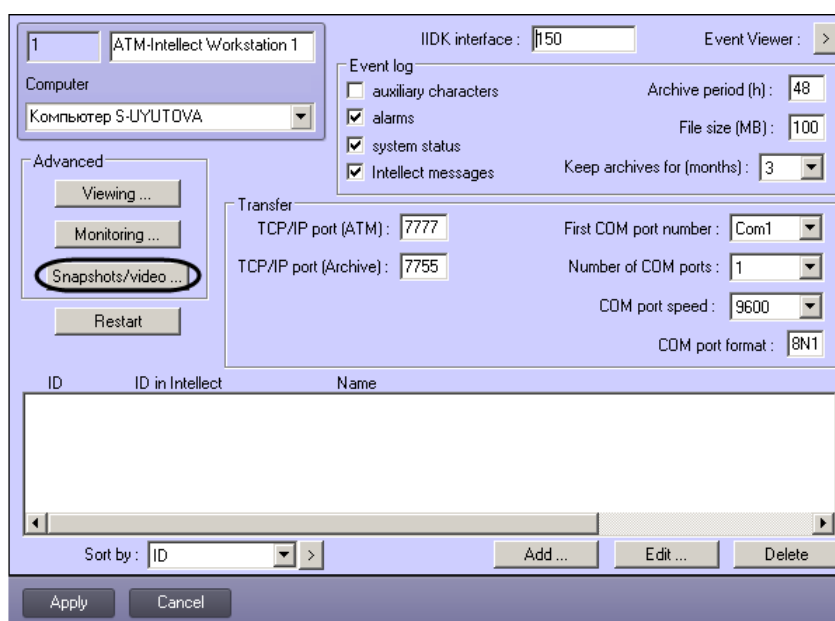


Figure 6.9—1 The Snapshots/Video button

2. Click the **Snapshots/video...** button (see Figure 6.9—1). A dialog box appears (Figure 6.9—2).

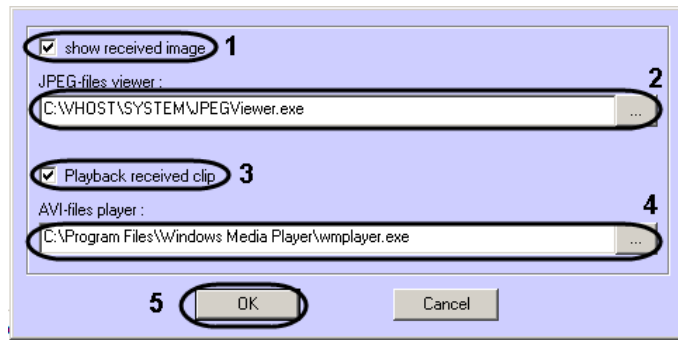


Figure 6.9—2 Setting up the reaction on receiving images and clips

3. If you need to open received image set the following parameters:
 - 3.1. Set the **show received image** checkbox (see Figure 6.9—2, 1).
 - 3.2. Specify the full path to the application used to open received JPEG-files (see Figure 6.9—2, 2).
4. If you need to open received video clip set the following parameters:
 - 4.1. Set the **Playback received clip** checkbox (see Figure 6.9—2, 3).
 - 4.2. Specify the full path to the application used to play received video files (see Figure 6.9—2, 4).

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

5. Press **OK** (see Figure 6.9—2, 5).

Configuring the program for cases when snapshots or video clips are received 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 the other functional subsystems.
3. Setting the Event Log.

7.2 Configuring ATM-Intellect Workstation TC

Objects creation in the hardware tree is performed as follows:

- Go to the **Hardware** tab of the **System settings** dialog box (Fig. 7.2—1, 1).
- Create the **IIDK Interface** object (Fig. 7.2—1, 2). The ID number of the **IIDK Interface** object must be greater than 100 (Fig. 7.2—1, 3).

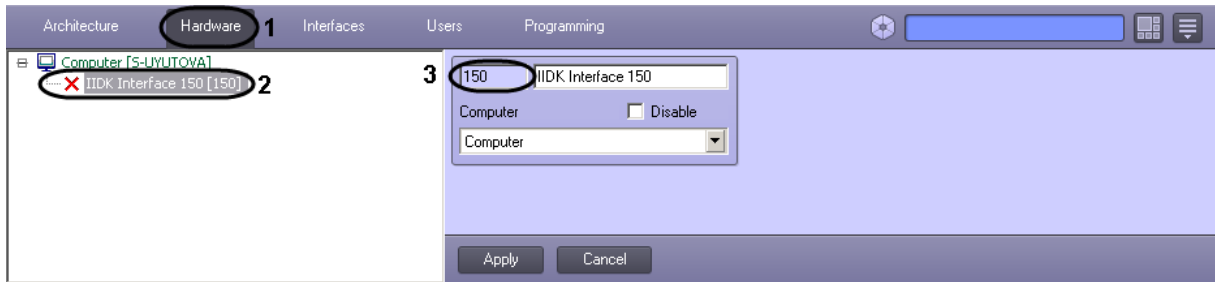


Fig. 7.2—1 IIDK Interface object

- Then create the **ATM-Intellect Workstation TC** object (Fig. 7.2—2).

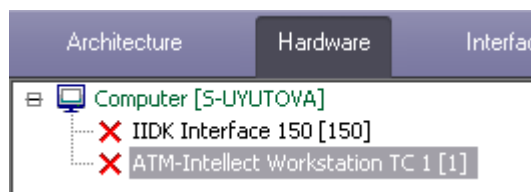


Fig. 7.2—2 ATM-Intellect Workstation TC object

- After the **ATM-Intellect Workstation TC** object is created its setting panel appears in the right of **System settings** dialog box (Fig. 7.2—3).

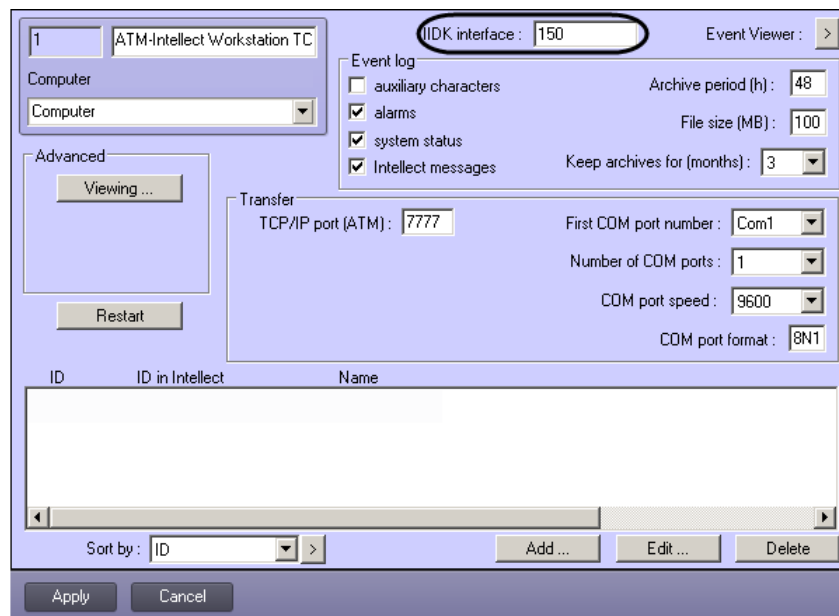


Fig. 7.2—3 ATM-Intellect Workstation TC object setting panel

- In the **IIDK interface** field enter the identification number of the **IIDK interface** object created on step 2 (see Fig. 7.2—3).
- Create **ATM machine** objects corresponding to the connected ATMs (Fig. 7.2—4).

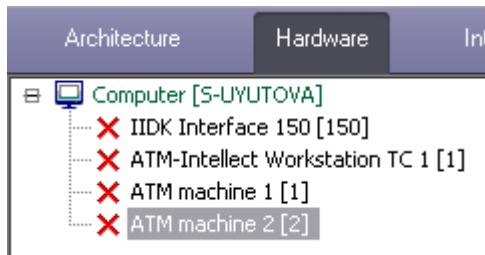


Fig. 7.2—4 ATM machine objects

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

Objects creation is completed.

7.3 Setting up a connection

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 (Fig. 7.3—1).

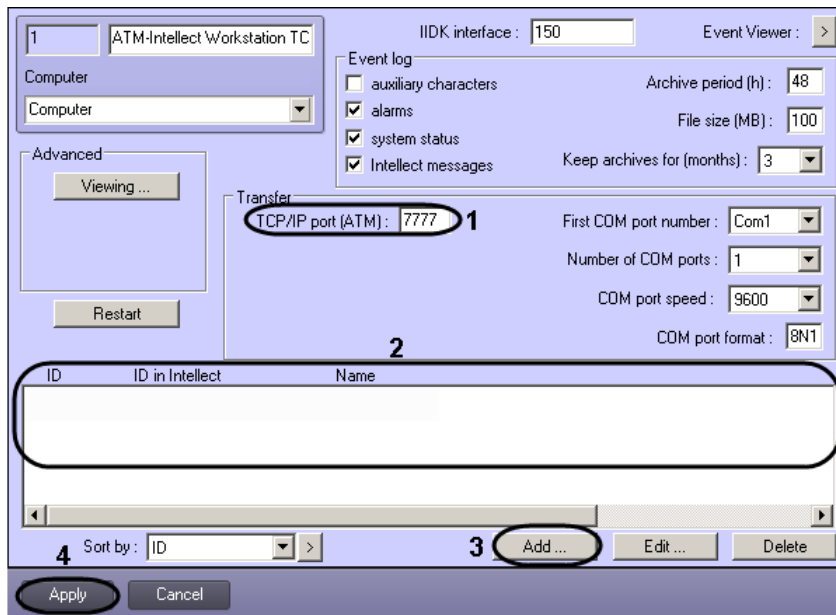


Fig. 7.3—1 Setting up a connection

2. In the **TCP/IP port (ATM)** field enter the port for communication via the TCP/IP protocol with remote *ATM-Intellect Workstations* (see Fig. 7.3—1, 1).
3. Specify the list of ATMs (see Fig. 7.3—1, 2):

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

- 3.1. Click **Add** (see Fig. 7.3—1, 3). A dialog box for adding ATM will appear (Fig. 7.3—2).

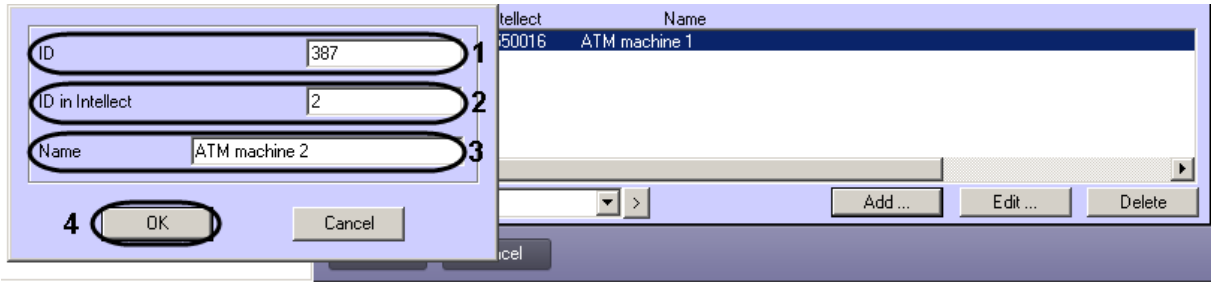


Fig. 7.3—2 Adding an ATM

- 3.2. The **ID** field must be the same as the **ID** field in the *ATM-Intellect Pro* settings (see Fig. 7.3—2, 1).
- 3.3. The fields **ID in Intellect** (see Fig. 7.3—2, 2) and **Name** (see Fig. 7.3—2, 3) must match the **Number** and **Name** fields of the corresponding **ATM machine** object.
- 3.4. Press **OK** (see Fig. 7.3—2, 4).
- 3.5. Repeat steps 3.1-3.4 for all required ATMs.

4. Click **Apply** to save settings.

Setting up a connection is completed.

7.4 Specifying 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 (Fig. 7.4—1).

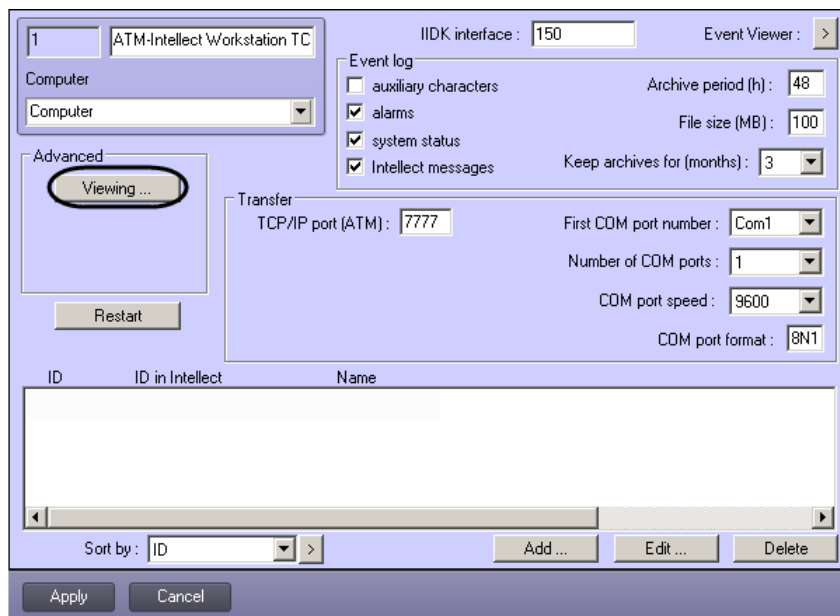


Fig. 7.4—1 Viewing... button

2. Click the **Viewing...** button (Fig. 7.4—1). You will see the dialog box to specify information which will be viewed on the *Event Viewer* pane of Intellect (Fig. 7.4—2).



Fig. 7.4—2 Specifying information for Event Viewer

3. Check the required events (Fig. 7.4—2).
4. Click **OK** (Fig. 7.4—2).

Specifying information for Event Viewer window is completed.

7.5 Setting up event log

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

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

To configure the Event log set up the following parameters on the **ATM-Intellect Workstation TC** object setting panel (Fig. 7.5—1):

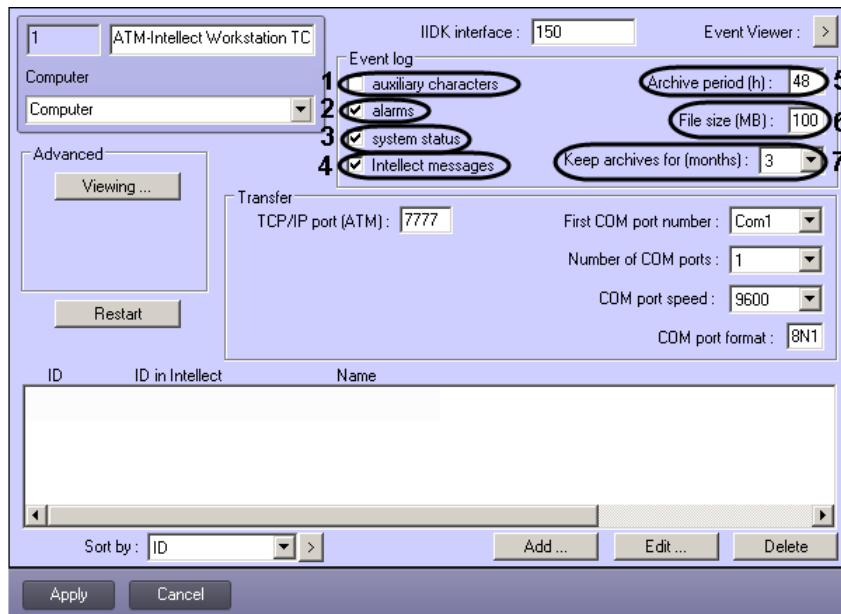


Fig. 7.5—1 Setting up event log

8. **Auxiliary characters.** Set the checkbox to log special characters of the transmitting level.
9. **Alarms.** Set the checkbox to log alarm events (triggering of the vibration sensor, temperature sensor and opening lock under duress sensor).
10. **System status.** Set the checkbox to log events related to the system status.

11. **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`.

12. **Archive period (h.).** Enter the time period for archiving the event log (in hours). Archives are saved in the DATA subfolder, in the following format: `namelog_yymmddhhmmss.gz`, where

12.1. `namelog` is the name of the archived event log;

12.2. `yy` is the year of archive creation;

12.3. `mm` is the month of archive creation;

12.4. `dd` is the day of archive creation;

12.5. `hh` is the hour of archive creation;

12.6. `mm` is the minute of archive creation;

12.7. `ss` is the second of archive creation.

13. **File size (MB).** Enter the size of the event log file (in megabytes) after which the file will be archived. This setting overrides the value in the **Archiving period** field.

14. **Keep archives for (months).** Select from the list the term of storage for the archived event log, in months (from 1 to 24). After this term expires, the archives are deleted.

7.6 The Event log utility

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

To start the *Event log* utility, click the **Event Viewer** button on the **ATM-Intellect Workstation** settings pane (Fig. 7.6—1).

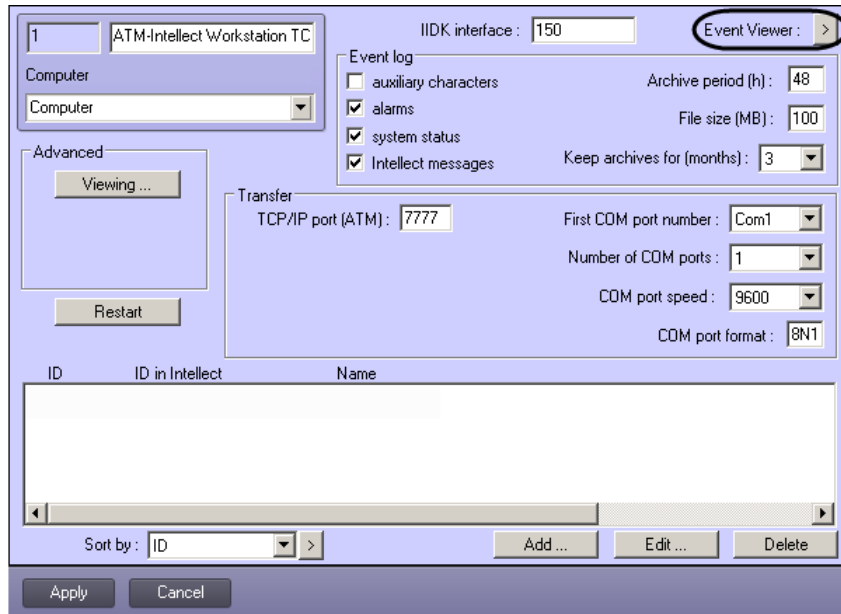


Fig. 7.6—1 Event log starting

The *Event log* utility allows to sort and filter data (Fig. 7.6—2).

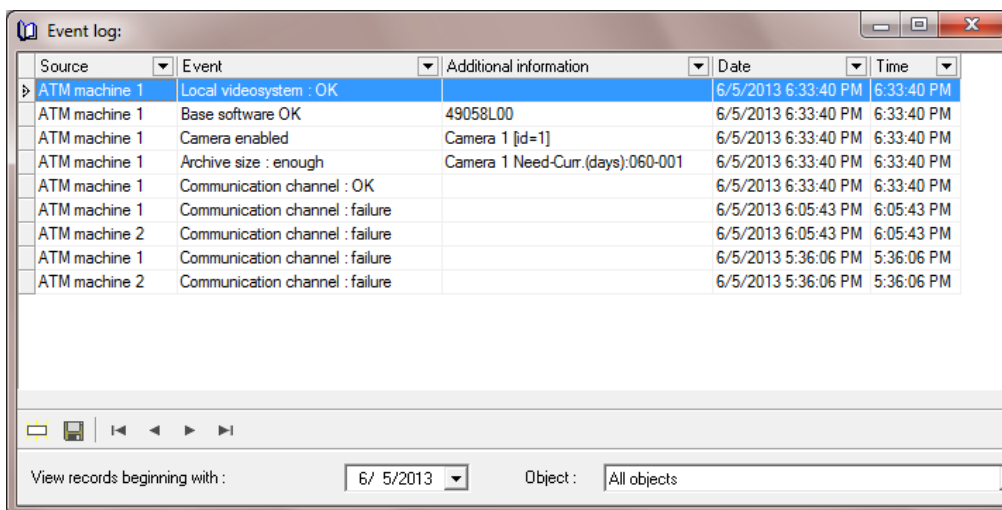


Fig. 7.6—2 Event log

7.7 Specifying storage time for event log

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

5. Go to the **Programming** tab of the **System settings** dialog box (Figure 6.7—1, 1).

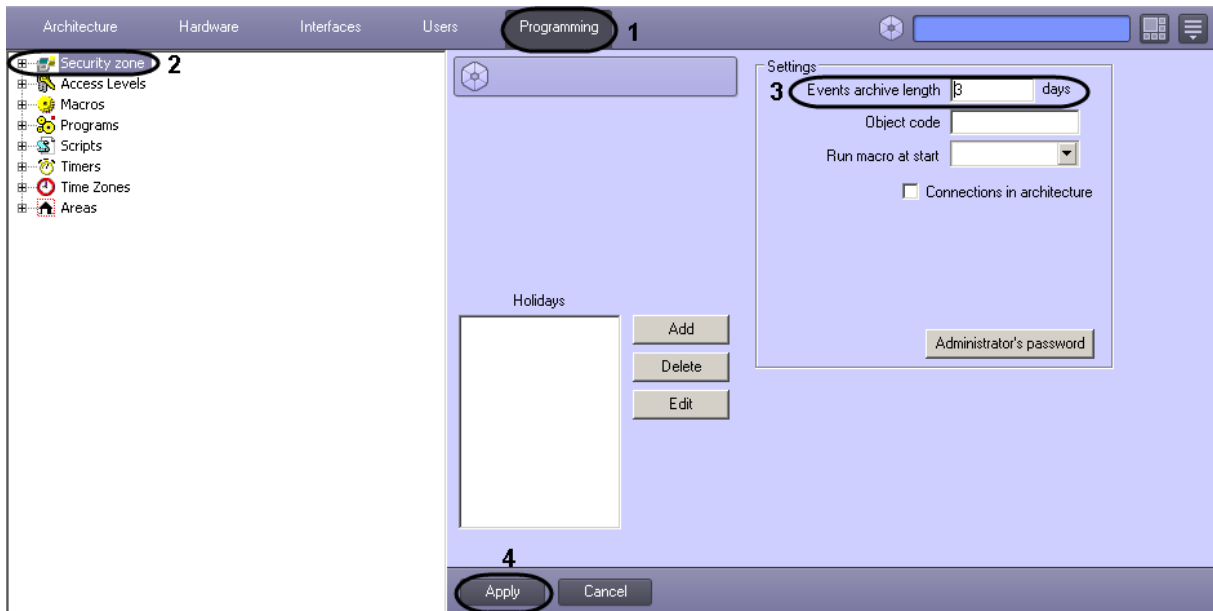


Figure 7.7—1 Specifying storage time for event log

6. Go to the Security zone object setting panel (see Figure 6.7—1, 2).
7. Specify the term of keeping the event log in the **Event archive length** parameter (see Figure 6.7—1, 3).
8. Press **Apply** (see Figure 6.7—1, 4).

Specifying the term of keeping the event log is completed.

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 all of these objects shall be configured locally, not remotely.

ATM-Intellect Pro configuration is performed in following order:

6. Creating objects in the hardware tree.
7. Setting up the **ATM-Intellect Pro** object.
8. Setting up the **Surveillance object**.
9. Configuring UPS.

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

8.2 Creating objects in the hardware tree

Objects creation in the hardware tree is performed as follows:

1. Go to the **Hardware** tab (Fig. 8.2—1, 1).
2. Create the **IIDK Interface** object based on the **Computer** object (Fig. 8.2—1, 2). The ID number of the **IIDK Interface** object must be greater than 100 (Fig. 8.2—1, 3).

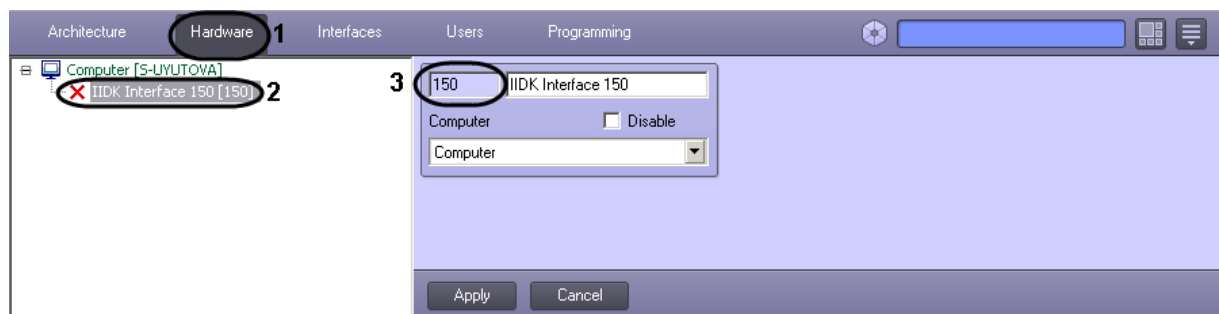


Fig. 8.2—1 IIDK interface object

3. Then create the **ATM-Intellect Pro** object based on the **Computer** object (Fig. 8.2—2).



Fig. 8.2—2 ATM-Intellect Pro object

- After the **ATM-Intellect Pro** object is created, it can be configured (Fig. 8.2—3).

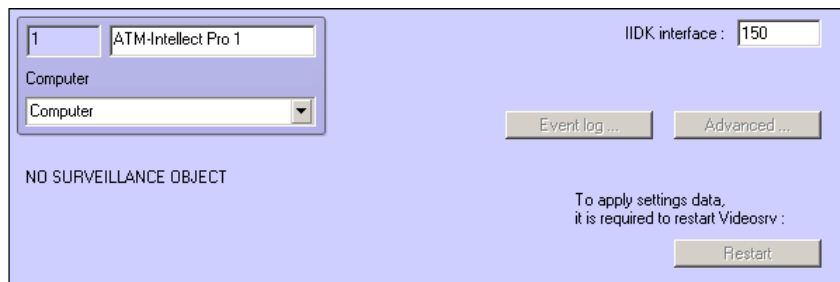


Fig. 8.2—3 ATM-Intellect Pro setting panel

- In the **IIDK interface** field enter the identification number of the **IIDK interface** object created on step 2 (Fig. 8.2—1).
- Then create one or more child **Surveillance Object** objects for the **ATM-Intellect Pro** object (Fig. 8.2—4)



Fig. 8.2—4 Surveillance Object objects

- After the **Surveillance Object** object is created, it can be configured (Fig. 8.2—5).

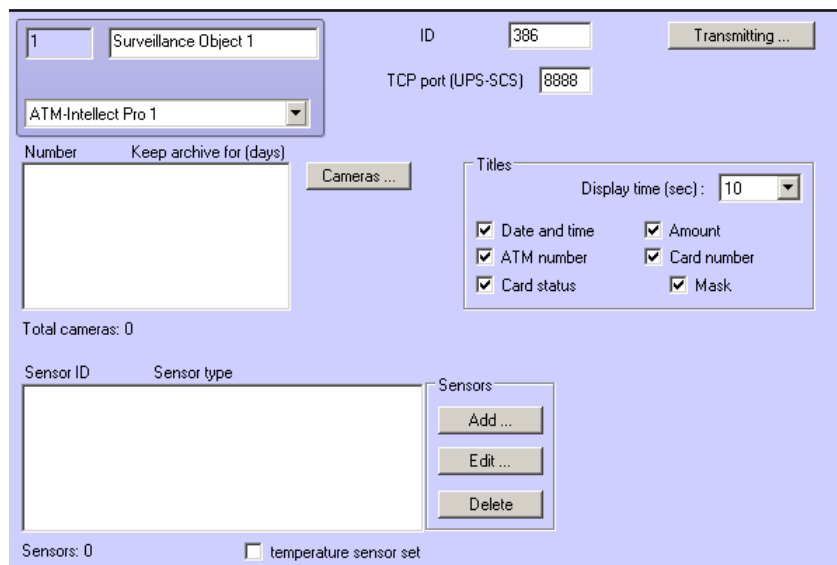


Fig. 8.2—5 Surveillance Object object setting panel

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 event log

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

To configure the Event log proceed as follows:

1. Go to the **ATM-Intellect Pro** object setting panel (Fig. 8.3—1).



Fig. 8.3—1 Event log... button

2. Click the **Event log ...** button (Fig. 8.3—1).
3. In the opened dialog box configure the following parameters (Fig. 8.3—2):

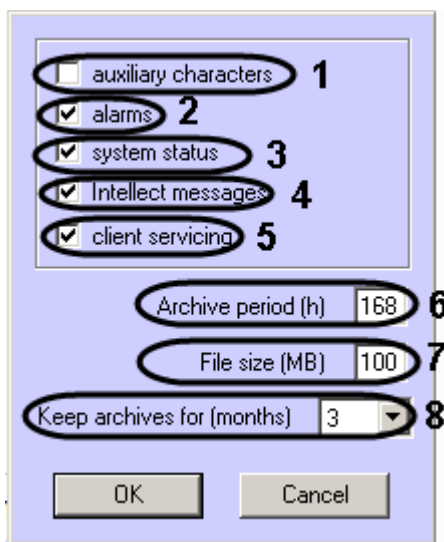


Fig. 8.3—2 Setting up event log

- 3.1. **Auxiliary characters.** Set the checkbox to log auxiliary characters on the transport level.

- 3.2. **Alarms.** Set the checkbox to log alarm events (activation of vibration sensor, temperature sensor, or forceable lock opening).
- 3.3. **System status.** Set the checkbox to log events related to the system status.
- 3.4. **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.
- 3.5. **Client servicing.** Set the checkbox to log the performance of financial transactions on the ATM.
- 3.6. **Archive period (h).** Allows archiving the log of events over the given time period (in hours). Archives are saved in the DATA subfolder, in the following format: `namelog_yymmddhhmmss.gz`, where
- 3.6.1. `namelog` is the name of the archived event log
 - 3.6.2. `yy` is the year of archive creation
 - 3.6.3. `mm` is the month of archive creation
 - 3.6.4. `dd` is the day of archive creation
 - 3.6.5. `hh` is the hour of archive creation
 - 3.6.6. `mm` is the minute of archive creation
 - 3.6.7. `ss` is the second of archive creation
- 3.7. **File size (MB).** Sets the size of the event log file (in megabytes) after which the file will be archived. This setting overrides the value in the **Archive period** field.
- 3.8. **Keep archives for (months).** Sets the term of storage for the archived event log, in months (from 1 to 24). After this term expires, the archives are deleted.

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

Setting up event log is completed.

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 (Fig. 8.3—3).

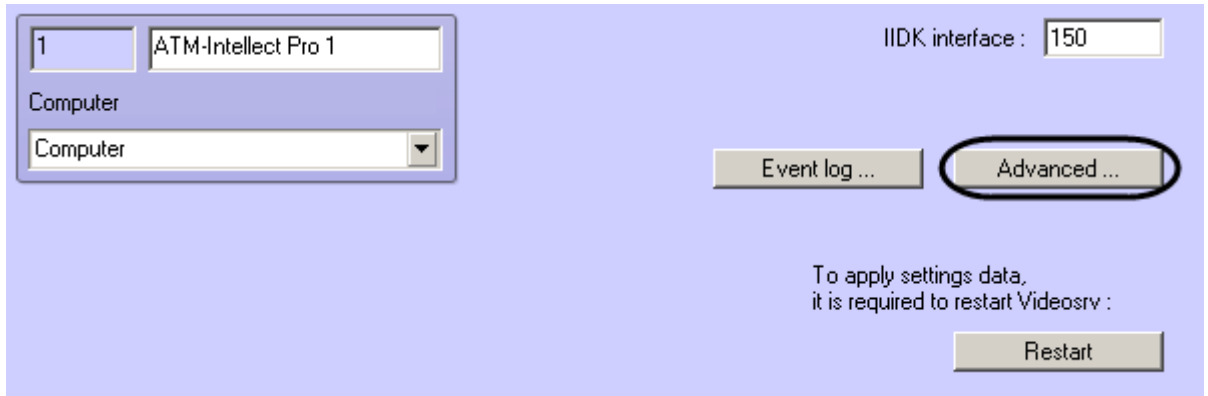


Fig. 8.3—3 Advanced button

2. To view a dialog box with more configuration options (Fig. 8.3—4), click the **Advanced ...** button.

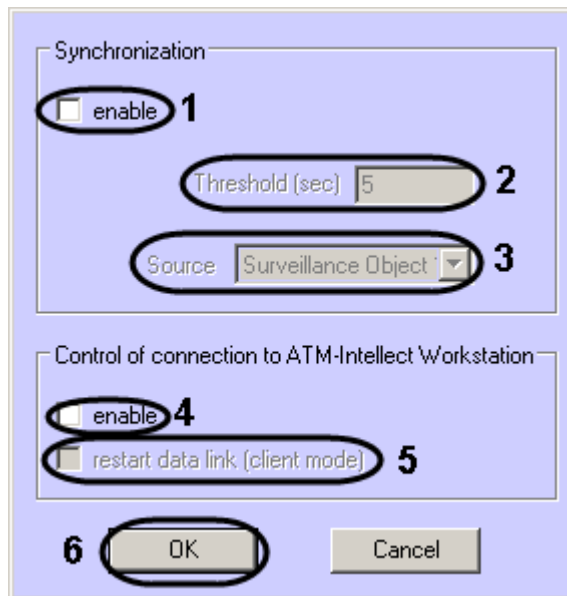


Fig. 8.3—4 Configuring time synchronization and control of connection

3. Configure synchronization in the following way:
 - 3.1. Set the **enable** checkbox (Fig. 8.3—4, 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).
 - 3.2. 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 (Fig. 8.3—4, 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).
 - 3.3. 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 (Fig. 8.3—4, 3).
4. Configure control of connection to *ATM-Intellect Workstation*:
 - 4.1. 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 (Fig. 8.3—4, 4). If *ATM Intellect Workstation* does not respond to four test

messages in a row, the software decides that there are problems in the data link between *ATM Intellect Pro* and *ATM Intellect Workstation*. The actions that the software takes based on this decision depend on the **Restart data link (client mode)** setting.

4.2. Set the **Restart data link (client mode)** checkbox (Fig. 8.3—4, 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** (Fig. 8.3—4, 6).

6. Click **Restart** button on the **ATM Intellect Pro** settings panel to apply the settings (Fig. 8.3—3).

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 (Fig. 8.4—1).

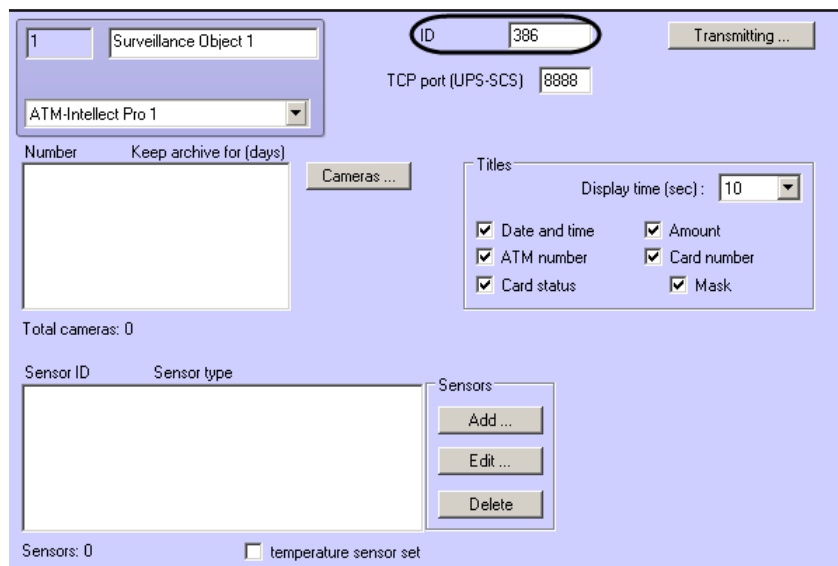


Fig. 8.4—1 Setting Surveillance Object ID

2. In the **ID** field enter the unique ID number of the object on which *ATM Intellect Pro* is installed (Fig. 8.4—1). 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 (Fig. 8.4—2).

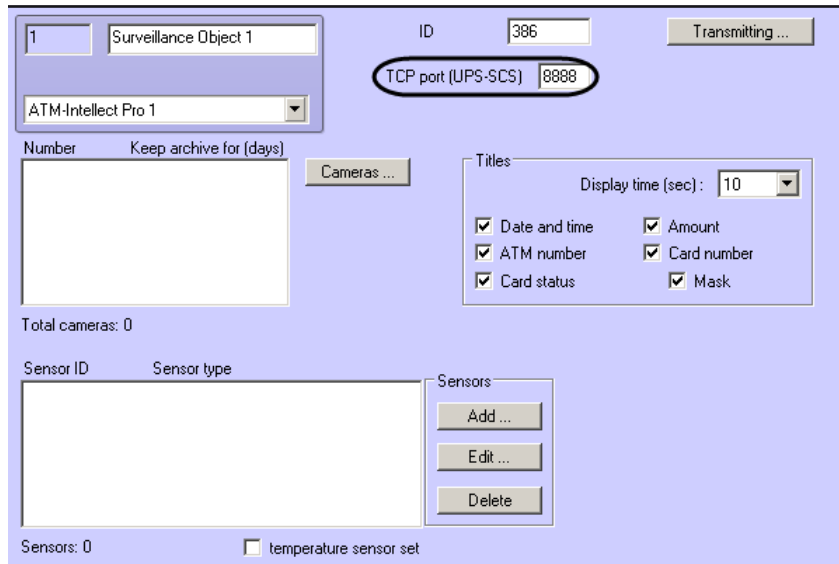


Fig. 8.4—2 Setting the port used to listen for messages from the UPS and “Smart Card Service” ATMs

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 (Fig. 8.4—2).
4. 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”

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 (Fig. 8.4—3).

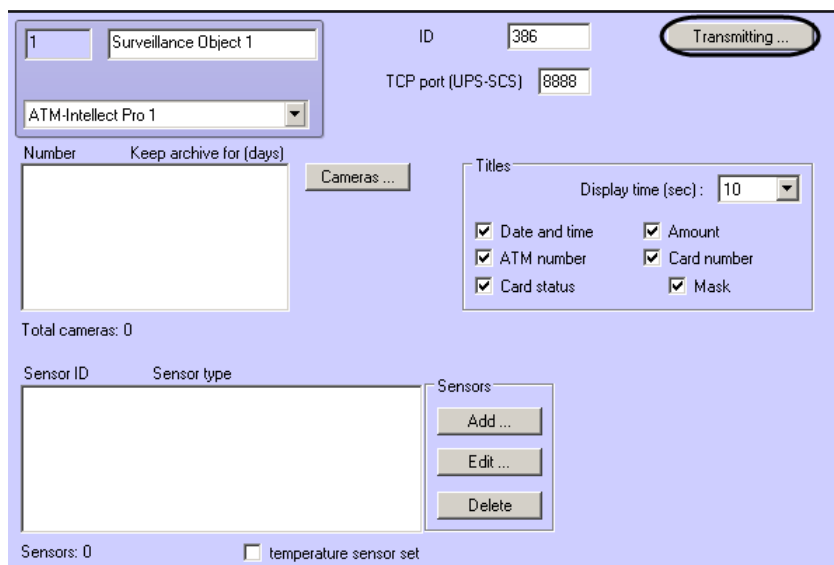


Fig. 8.4—3 The Transmitting... button

2. Click the **Transmitting ...** button (Fig. 8.4—3). A dialog box for selecting the interface method between *ATM Intellect Pro* and *ATM Intellect Workstation* opens (Fig. 8.4—4).

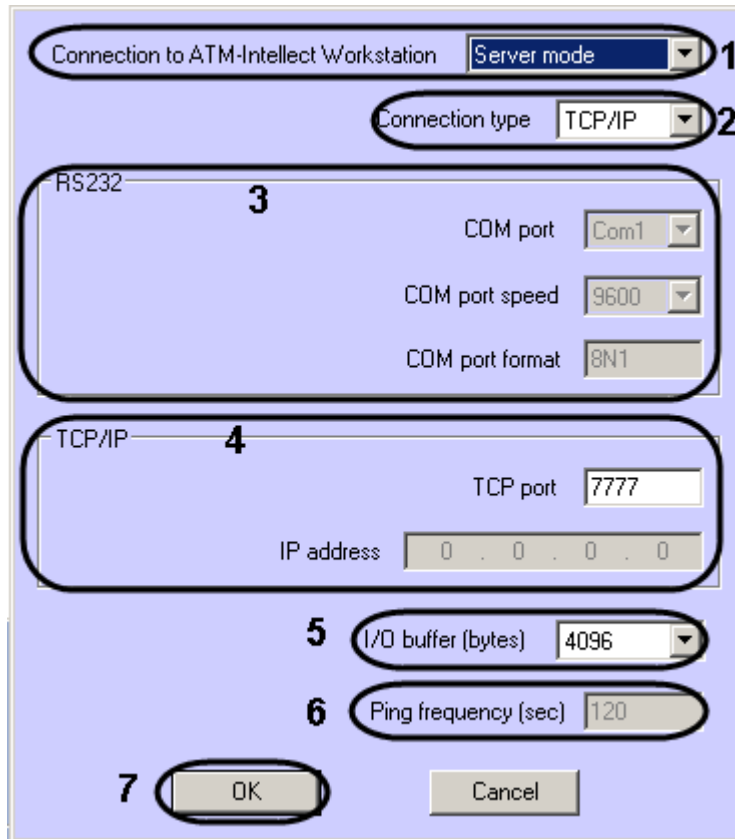


Fig. 8.4—4 Selecting the interface method between ATM Intellect Pro and ATM Intellect Workstation

3. In the **Connection to ATM Intellect Workstation** drop-down list select one of the two available methods for connecting *ATM Intellect Pro* to *ATM Intellect Workstation* will be used: **Server mode** or **Client mode** (Fig. 8.4—4, 1).
4. In the **Connection type** drop-down list select the type of transport interface. Can be either **TCP/IP** or **RS232** (Fig. 8.4—4, 2).
5. If **RS232** is chosen for the **Connection type**, the **COM port number**, **COM port speed** and **COM port format** must be configured (Fig. 8.4—4, 3).
6. If **TCP/IP** is chosen for the **Connection type**, in the **TCP port** enter the number of port for TCP/IP connections (Fig. 8.4—4, 4).

If **Client mode** has been chosen for the connection to *ATM Intellect Workstation* and **TCP/IP** has been chosen for the **Connection type**, in the dialog box, indicate the **IP address** and **TCP port** of *ATM Intellect Workstation*.

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 (Fig. 8.4—4, 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**) - (Fig. 8.4—4, 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** (Fig. 8.4—4, 7).

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

8.4.4 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 (Fig. 8.4—5).

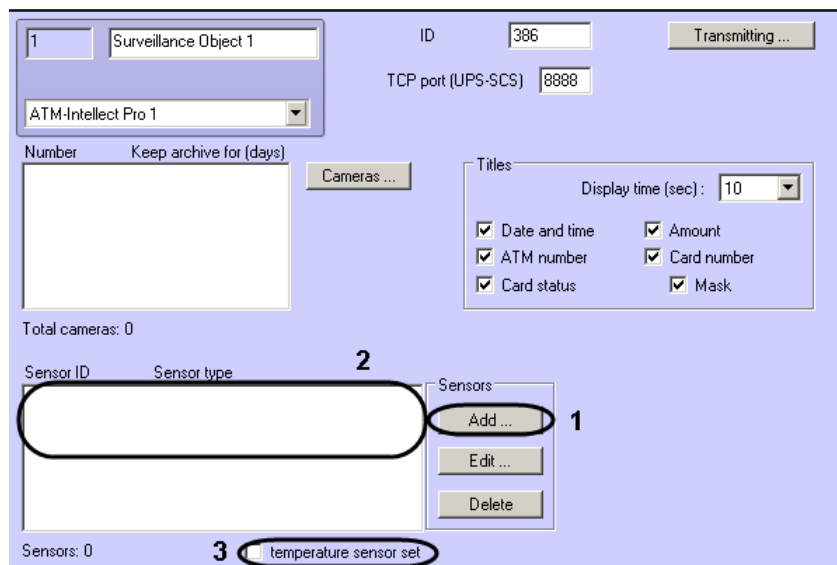


Fig. 8.4—5 Adding a sensor

2. Click **Add...** (Fig. 8.4—5, 1). A dialog box for sensor adding opens (Fig. 8.4—6).

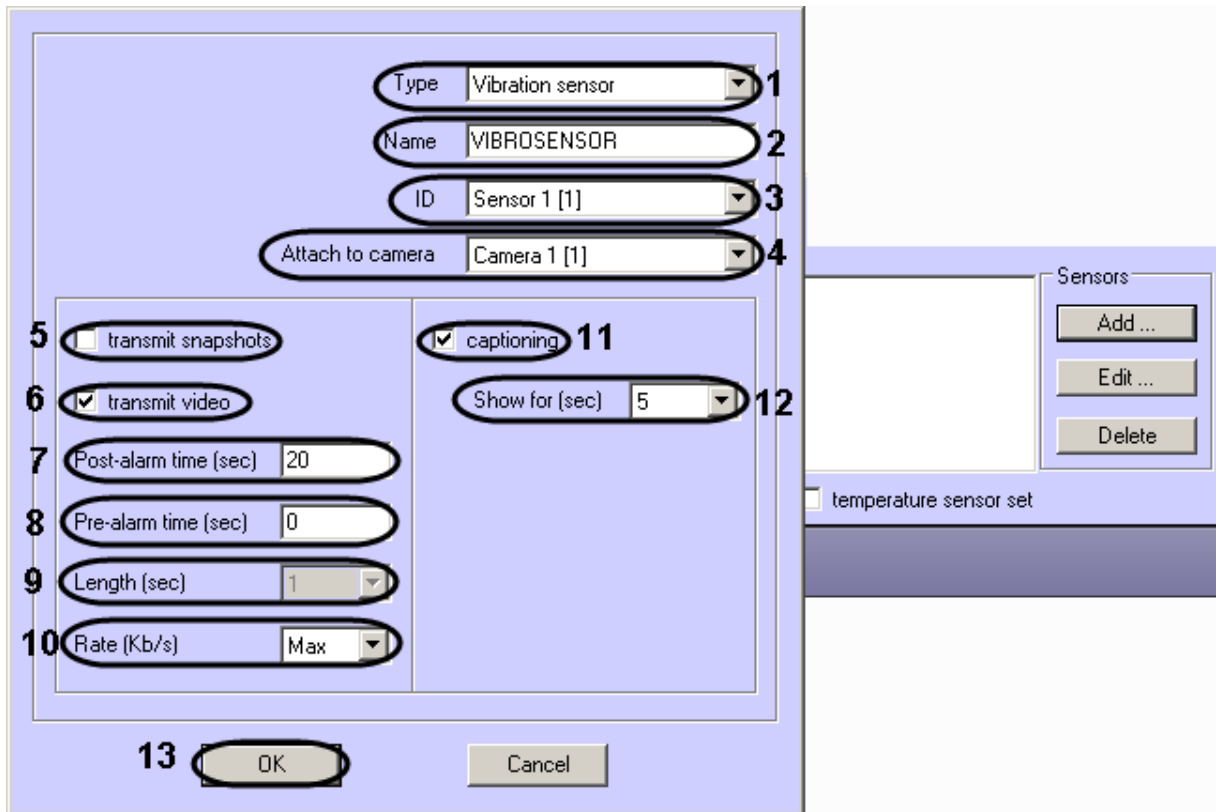


Fig. 8.4—6 Dialog for adding a sensor

3. In the **Type** drop-down list select a type of sensor from the 16 types described previously (Fig. 8.4—6, 1).
4. In the **Name** field enter the text which will be sent to *ATM Intellect Workstation* together with an alarm message (Fig. 8.4—6, 2). This text will be overlaid on the video camera image during the subtitling process.
5. In the **ID** drop-down list select the **Sensor** object that has been previously created in *Intellect* (Fig. 8.4—6, 3).
6. In the **Attach to camera** drop-down list select a **Camera** object that has been previously created in *Intellect* (Fig. 8.4—6, 4).

7. Set the **Transmit snapshots** checkbox to send video frames to *ATM Intellect Workstation* when the sensor is activated, select this check box (Fig. 8.4—6, 5). In the **Attach to camera** field, indicate the video camera from which you want video frames to be sent (Fig. 8.4—6, 4).

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

8. Set the **Transmit video** checkbox to send video to *ATM Intellect Workstation* when the sensor is activated, select this check box (Fig. 8.4—6, 6). In the **Attach to camera** field, indicate the video camera from which you want video to be sent (Fig. 8.4—6, 4).
9. 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 (Fig. 8.4—6, 7). The default value is 20 seconds.
10. 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 (Fig. 8.4—6, 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.

11. 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) - (Fig. 8.4—7, 1).

The screenshot shows a configuration window for a vibration sensor. The 'Number of frames' dropdown is set to 1, and the 'Interval (sec)' field is set to 1. Both are circled in black with callout numbers 1 and 2 respectively.

Fig. 8.4—7 Configuring snapshot transmitting

12. In the **Interval (sec)** field enter the interval, in seconds, between video frames if more than one frame is being transmitted (Fig. 8.4—7, 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 (Fig. 8.4—6), 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) (Fig. 8.4—8).

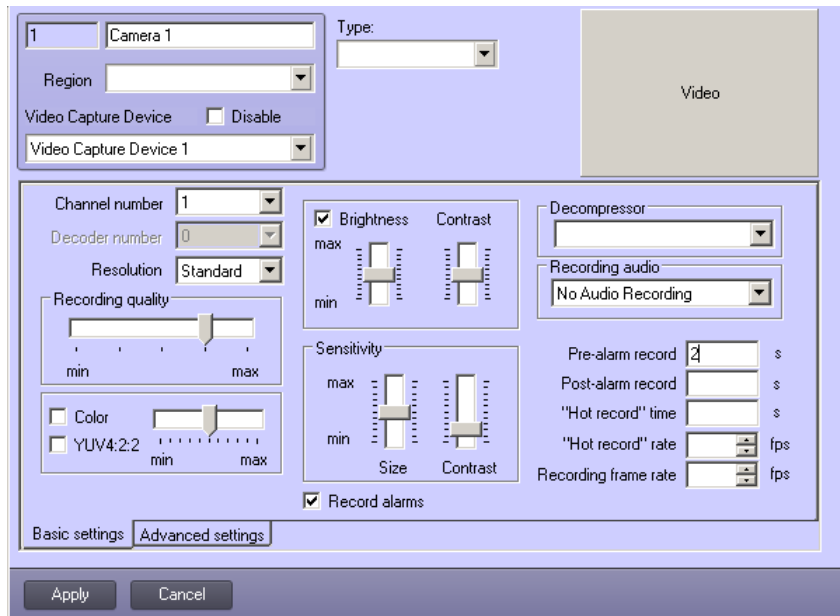


Fig. 8.4—8 Pre-alarm record

13. 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 (Fig. 8.4—6, 9). The length will be determined by the size of the video footage file in the video archive. To limit the length of the video fragment that is sent, pause camera recording by using a script (a sample script is given in Example of script to suspend recording on camera).

14. In the **Rate (Kb/s)** field enter the speed of transmission of the video fragment (for **Transmit video** mode) - (Fig. 8.4—6, 10).
15. Set the **Captioning** check box if captions are to be superimposed on the video image when a sensor is activated (Fig. 8.4—6, 11). In the **Attach to camera** field, indicate the video camera on whose video you want to overlay captions (Fig. 8.4—6, 4).
16. In the **Show for (sec)** field specify the duration of display of captions on the video image, in seconds (Fig. 8.4—6, 12).
17. Click **OK** (Fig. 8.4—6, 13).
18. Set the **Temperature sensor set** checkbox if it is necessary to monitor temperatures within a particular allowable range, enable this option (Fig. 8.4—5, 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.
19. To save settings click **Apply** (Fig. 8.4—5, 4).

Configuring the list of used sensors is completed.

8.4.5 Configuring titles

8.4.5.1 Setting information contained in titles

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

1. Go to the **Surveillance Object** object setting panel (Fig. 8.4—9).

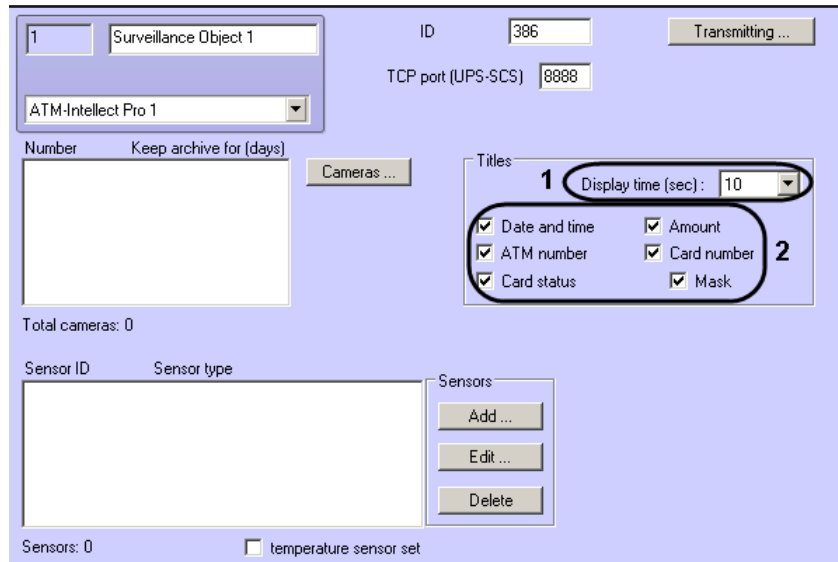


Fig. 8.4—9 Setting information contained in titles

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) - (Fig. 8.4—9, 1).
3. Set the checkboxes in front of information which should displayed in captions (Fig. 8.4—9, 2).
4. Click **Apply** to save settings.

Setting information contained in titles is completed.

8.4.5.2 Setting up the “Captioner” object

To configure captions, you must create a **Captioner** object for each camera on which you want to overlay captions (Fig. 8.4—10).

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

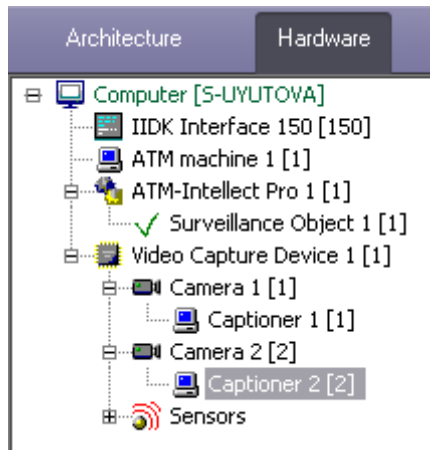


Fig. 8.4—10 Captioners in objects tree

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

1. In the settings tree, left-click the corresponding **Captioner** object. On the right side of the screen, a configuration pane appears for the **Captioner** object (Fig. 8.4—11).

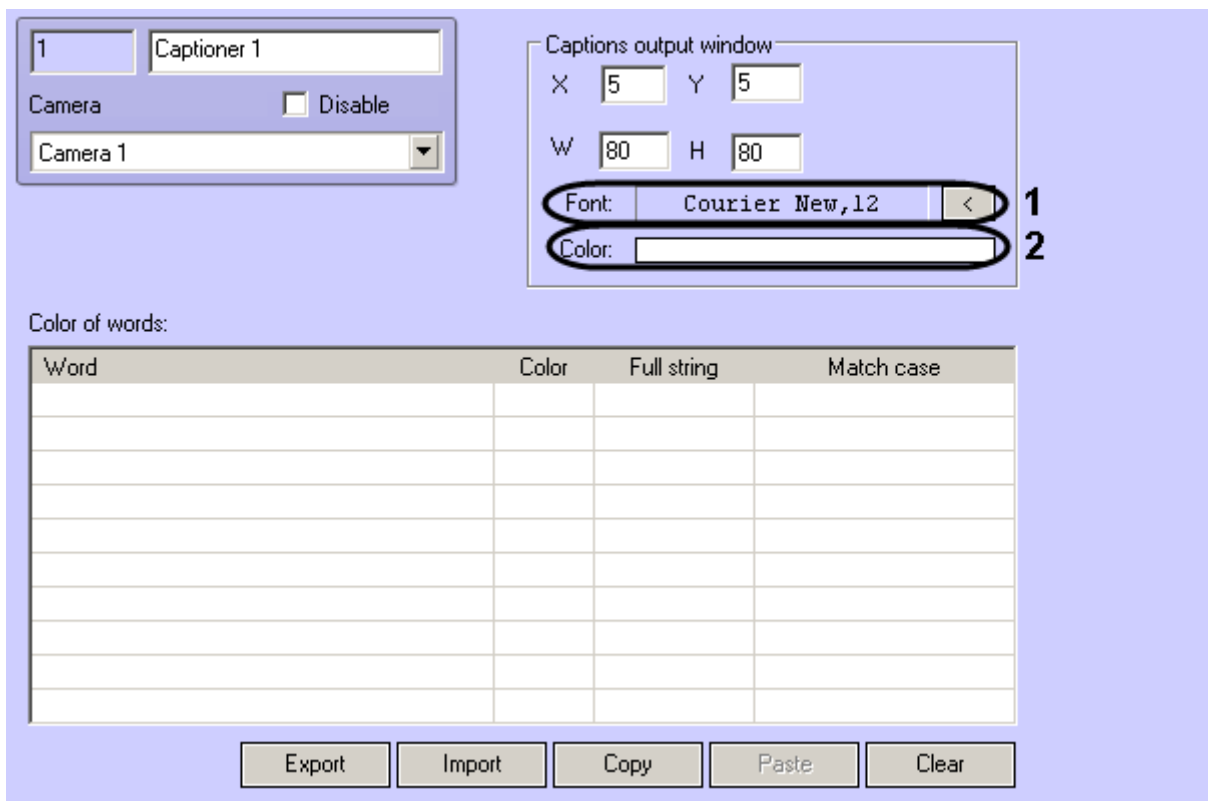


Fig. 8.4—11 Configuring captions

2. To configure the font face and font size, click the button to the right of the **Font** line (Fig. 8.4—11, 1) to open the corresponding dialog box (Fig. 8.4—12).

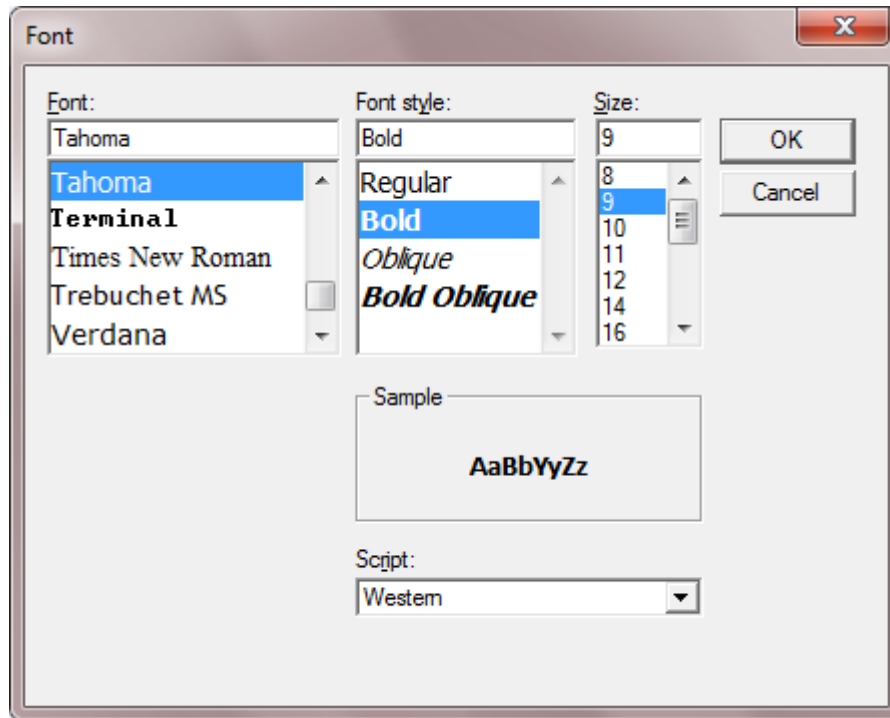


Fig. 8.4—12 Font setup

3. To configure the color of captions, double-click the area to the right of the **Color** line (Fig. 8.4—11, 2). The color selection dialog box opens (Fig. 8.4—13).

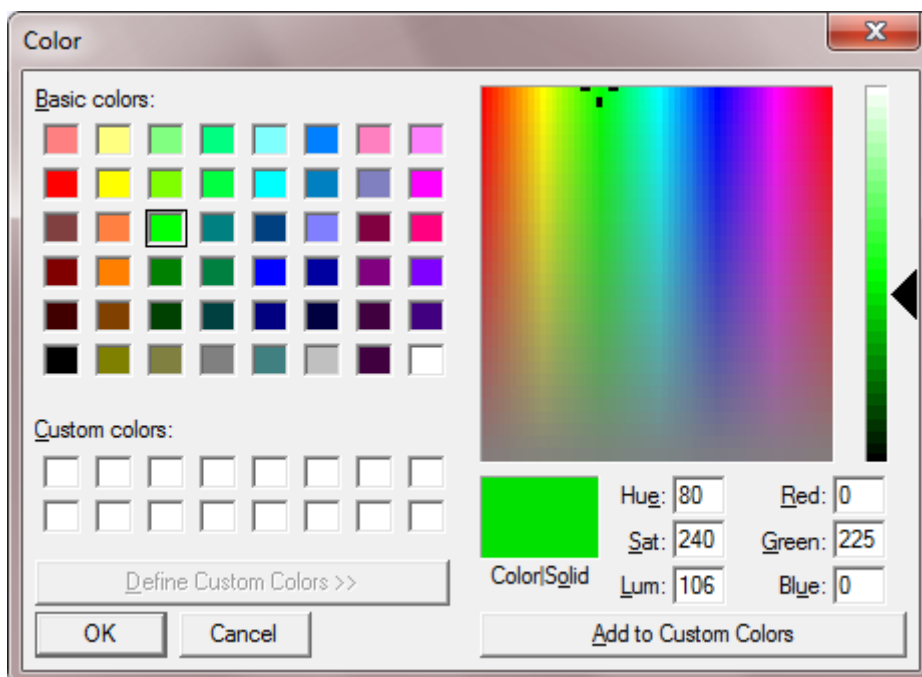


Fig. 8.4—13 Color selection

8.4.6 Configuring video cameras list

To configure list of used video cameras do the following:

1. Go to the **Surveillance Object** object setting panel (Fig. 8.4—14).

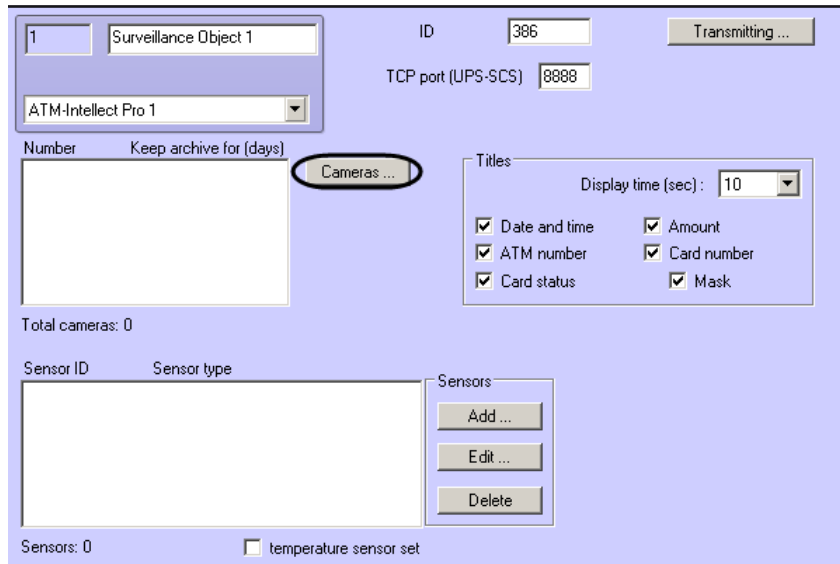


Fig. 8.4—14 Cameras... button

2. Click the **Cameras...** button (Fig. 8.4—14, 1). The **Add/Edit cameras** dialog box opens (Fig. 8.4—15).

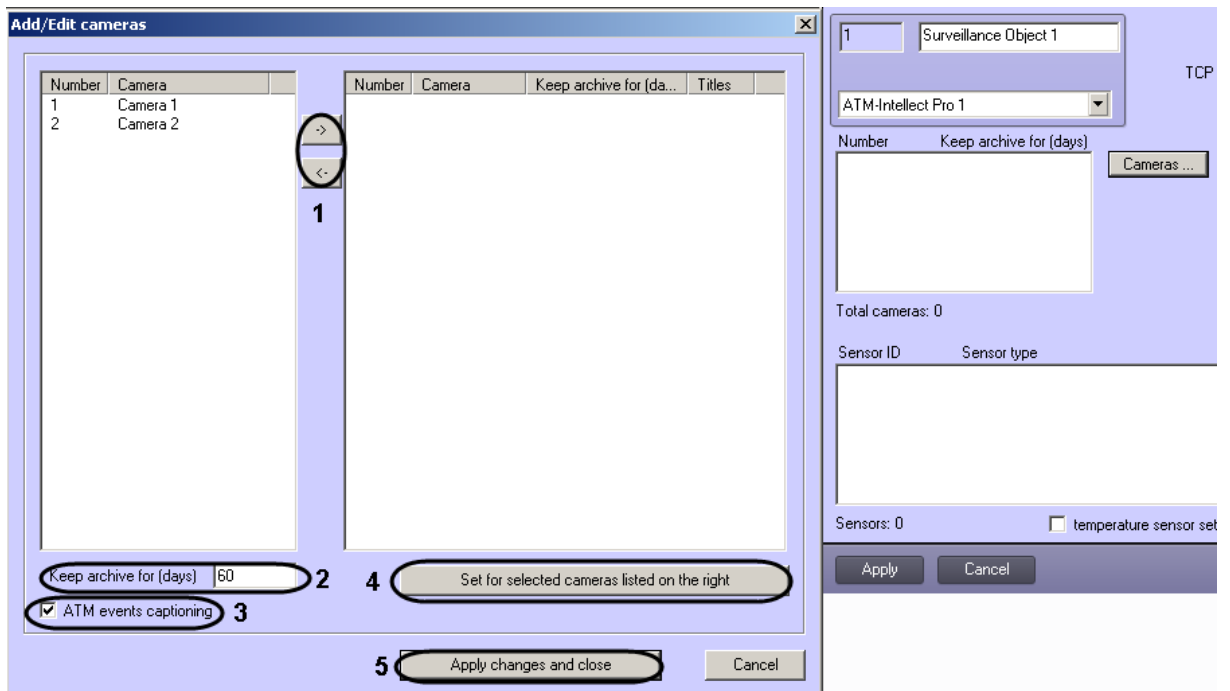




Fig. 8.4—15 Selecting cameras

3. Move cameras from the list on the left to the list on the right with  and  buttons (Fig. 8.4—15, 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 (Fig. 8.4—15, 2).
6. If titles displaying is required, set the ATM events captions checkbox (Fig. 8.4—15, 3).

7. Click the **Set for selected cameras listed on the right** button (Fig. 8.4—15, 4).
8. Repeat steps 4-7 for all cameras in the list on the right.
9. Click **Apply changes and close** button (Fig. 8.4—15, 5).

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

Configuring cameras list is completed.

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 installation

To install the StateUPS utility proceed as follows:

1. Create a folder on the disk, for example: C:\EVUPS. Copy the file StateUPS.exe, which is in the UPS folder of the installation package, to the EVUPS folder.
2. Then configure the file StateUPS.ini, which is also located in the UPS folder of the installation package:
 - 2.1. *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.
 - 2.2. *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*).
3. After the file StateUPS.ini is configured, copy it to the system folder of the operating system. For example, if your operating system is installed in the folder C:\WINNT, copy the file StateUPS.ini to the folder C:\WINNT\System32\.
4. Then install the software supplied by the UPS vendor. Before beginning installation, make sure that the interface cable is connected to the UPS:
 - 4.1. To start the installation process, start the file pc521.exe. Installation starts (Fig. 8.5—1).



Fig. 8.5—1 Preparing to install

4.2. On the following wizard page, select the option **Continue with the installation now** and click the **Next** button (Fig. 8.5—2).

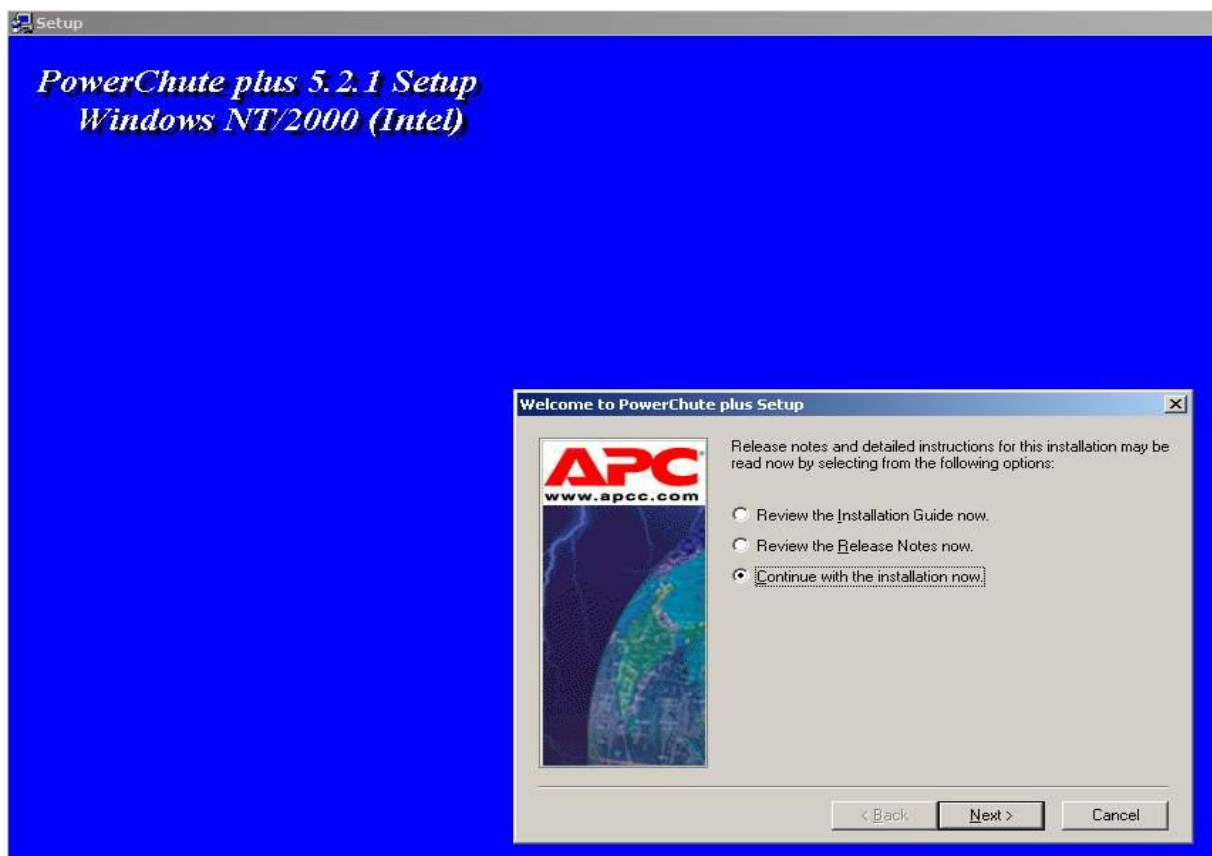


Fig. 8.5—2 Installation proceed

4.3. Accept the end-user license agreement (Fig. 8.5—3).

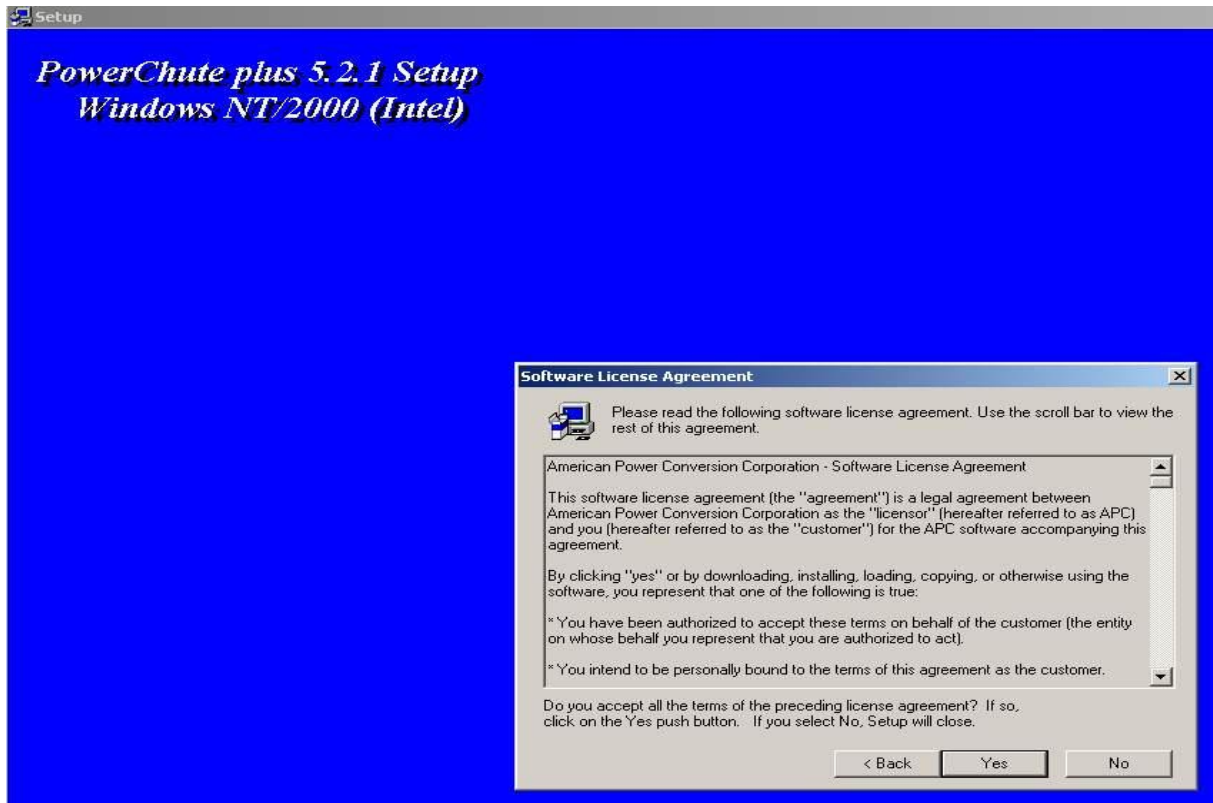


Fig. 8.5—3 License agreement

4.4. On the following page of the wizard (Fig. 8.5—4), select the **Typical** installation type and indicate the path at which you want to install the software.

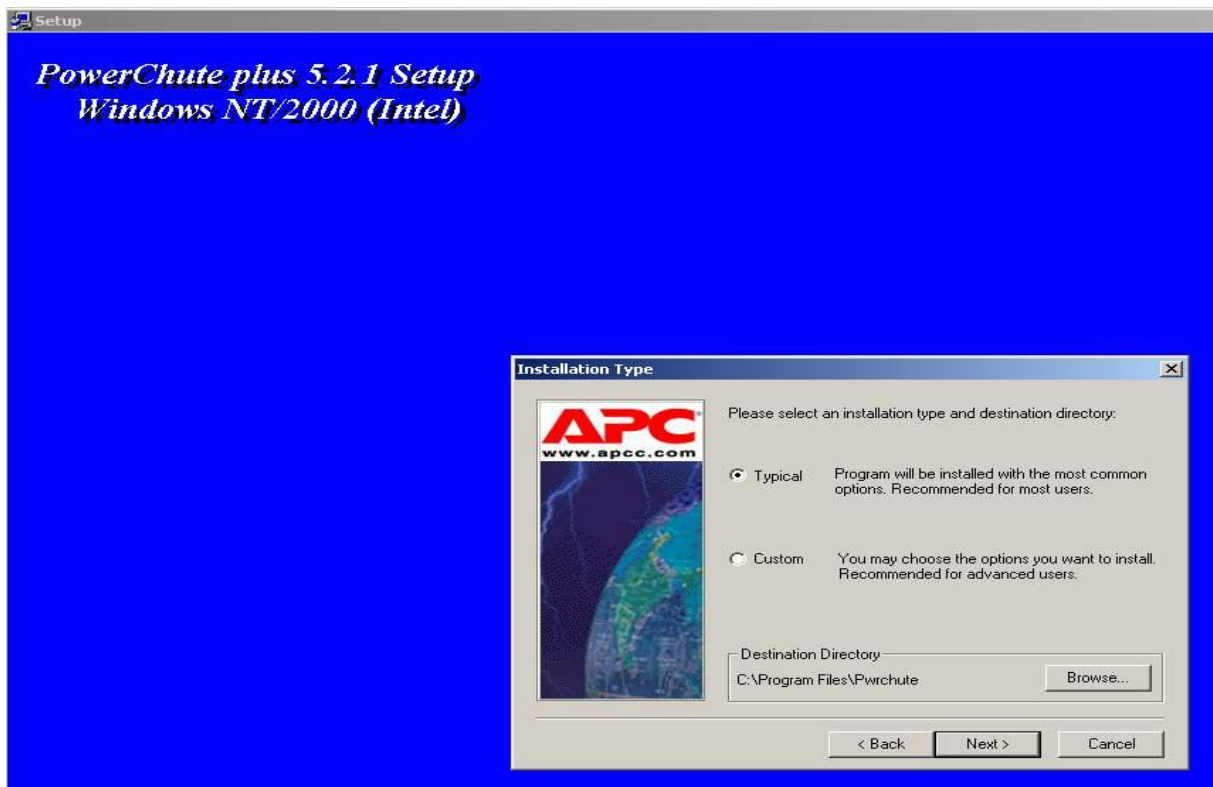


Fig. 8.5—4 Selecting type of installation

4.5. The necessary files will be copied (Fig. 8.5—5).

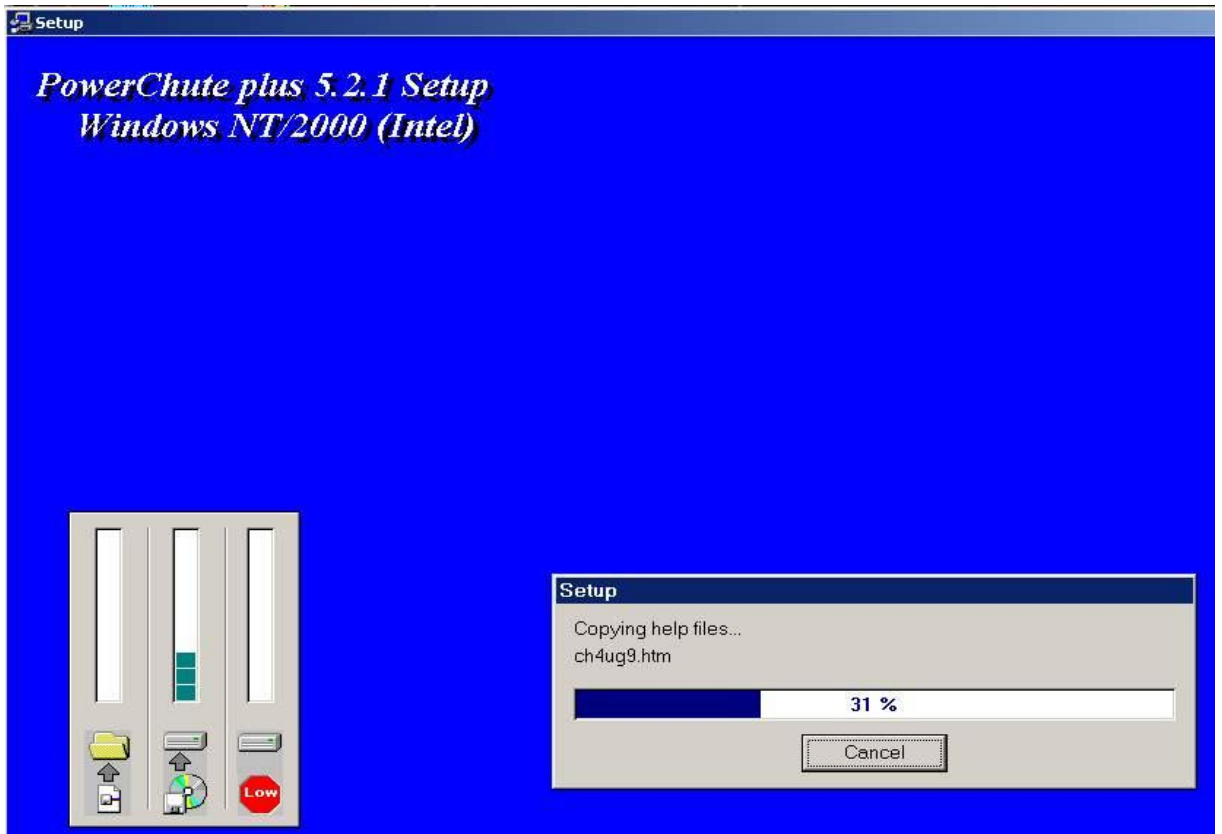


Fig. 8.5—5 Copying new files

4.6. You are asked whether you want the program to automatically detect the COM port on which the UPS is located (Fig. 8.5—6). Click the **Yes** button.

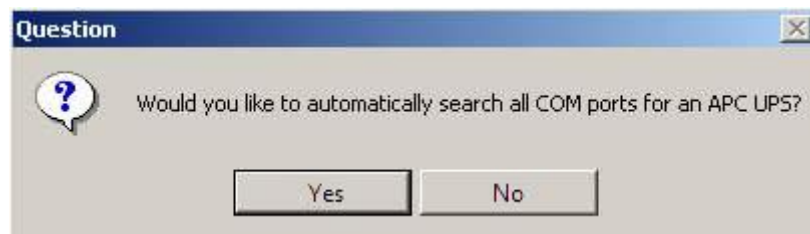


Fig. 8.5—6 Request on automatic detection of the COM port

4.7. Search begins (Fig. 8.5—7).



Fig. 8.5—7 Searching UPS on COM ports

4.8. After the search ends, the program shows the type of UPS that it found and the corresponding COM port (Fig. 8.5—8). Click the **Next** button.

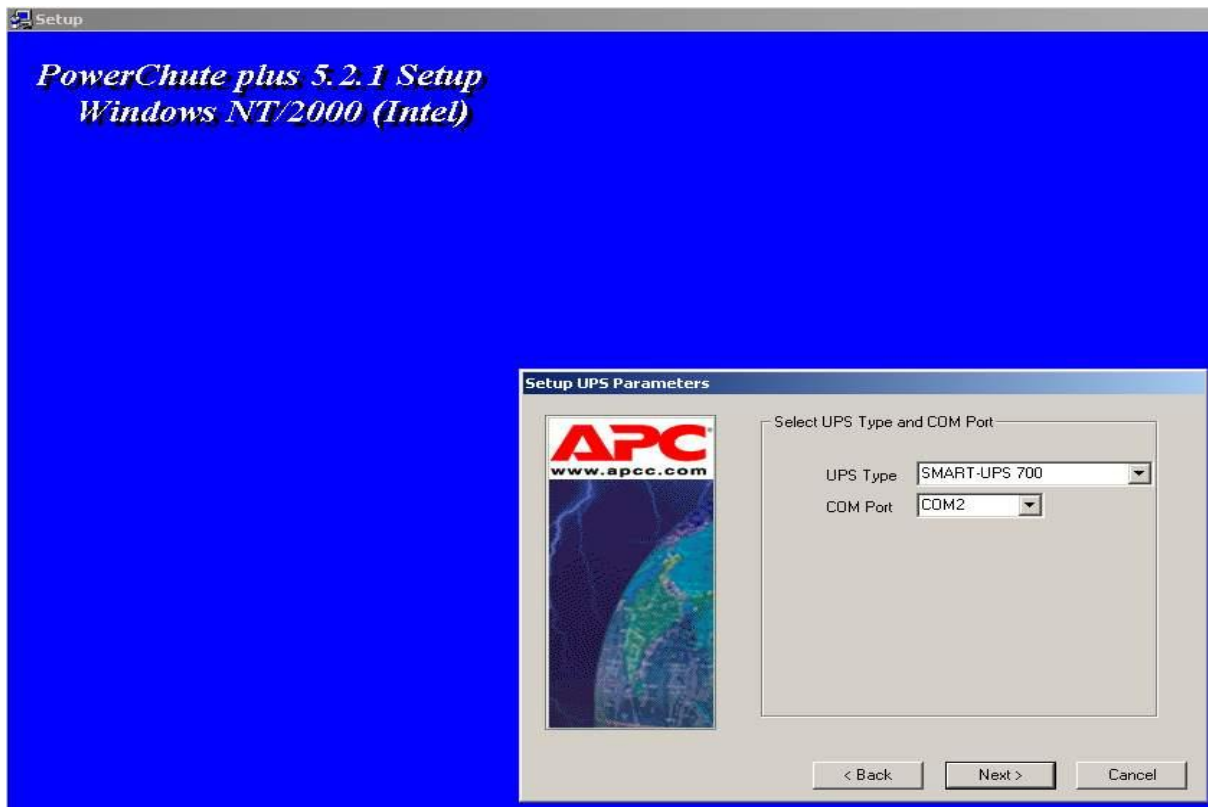


Fig. 8.5—8 Found UPS

4.9. Then clear the **Enable PowerChute plus remote monitoring** check box and click the **Next** button (Fig. 8.5—9).

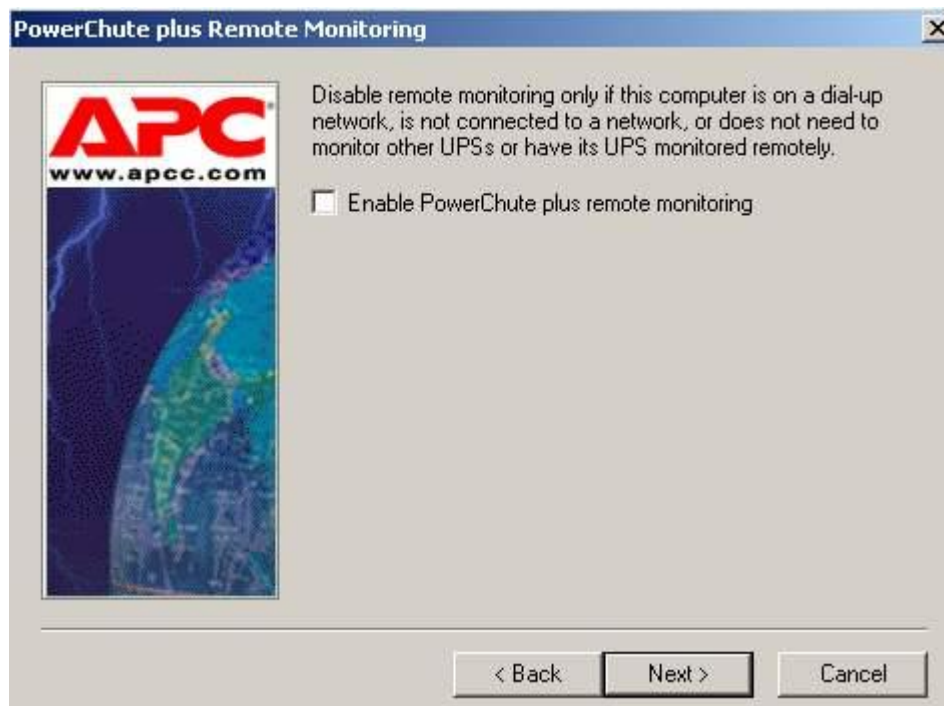


Fig. 8.5—9 Configuring UPS remote monitoring

4.10. The two following wizard pages complete the installation process (Fig. 8.5—10 and Fig. 8.5—11).

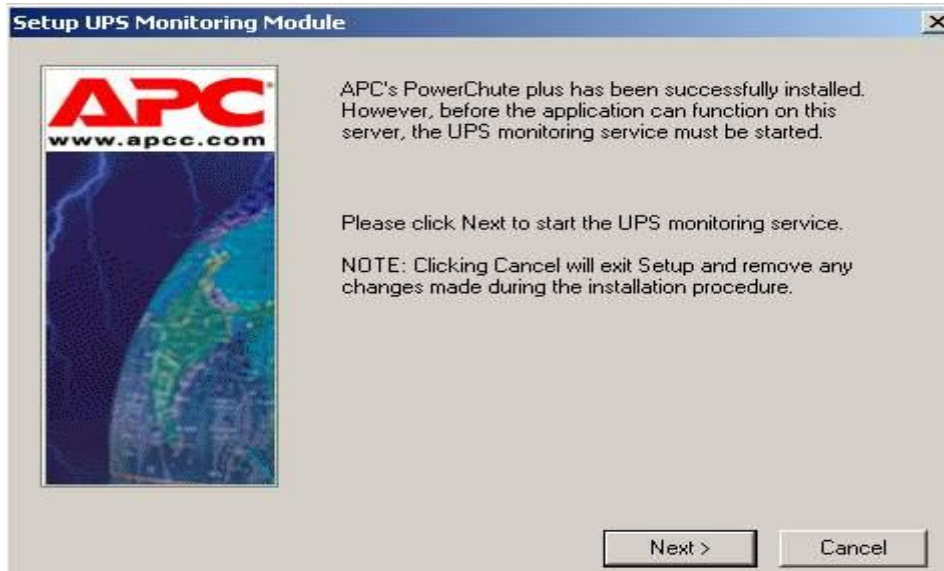


Fig. 8.5—10 Launching UPS monitoring service



Fig. 8.5—11 Confirm that installation completed

The StateUPS utility installation completed.

8.5.2 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** (Fig. 8.5—12).

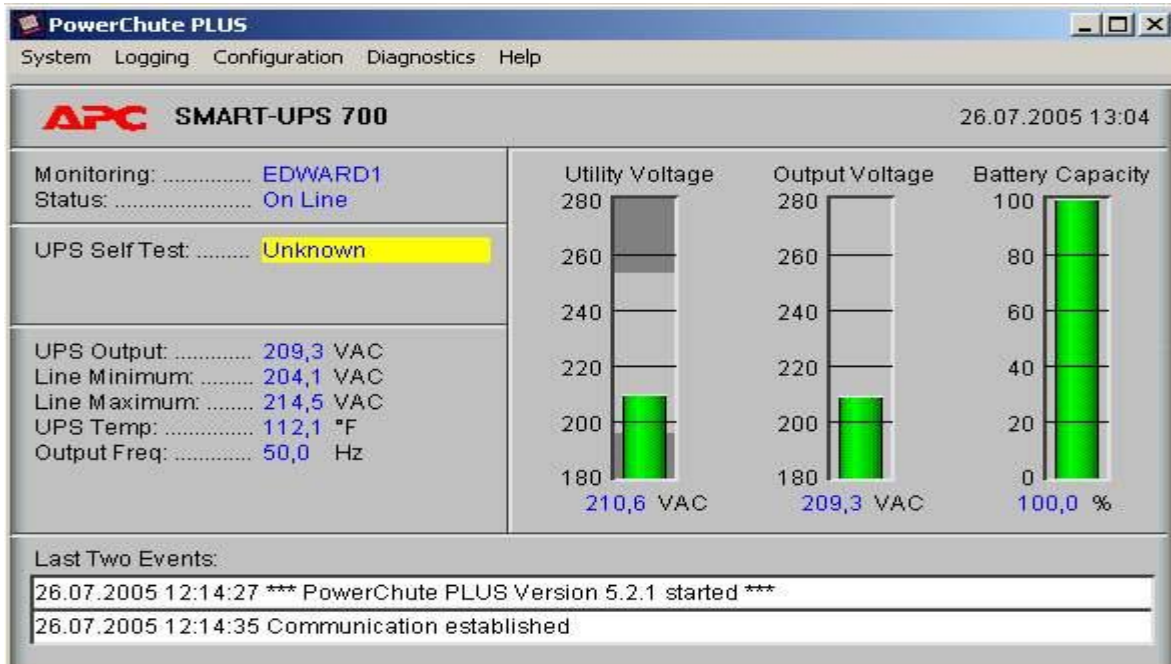


Fig. 8.5—12 PowerChute plus configuration

2. Select the menu item **Configuration>Event Actions...** (Fig. 8.5—12). In the dialog box that appears (Fig. 8.5—13), 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.

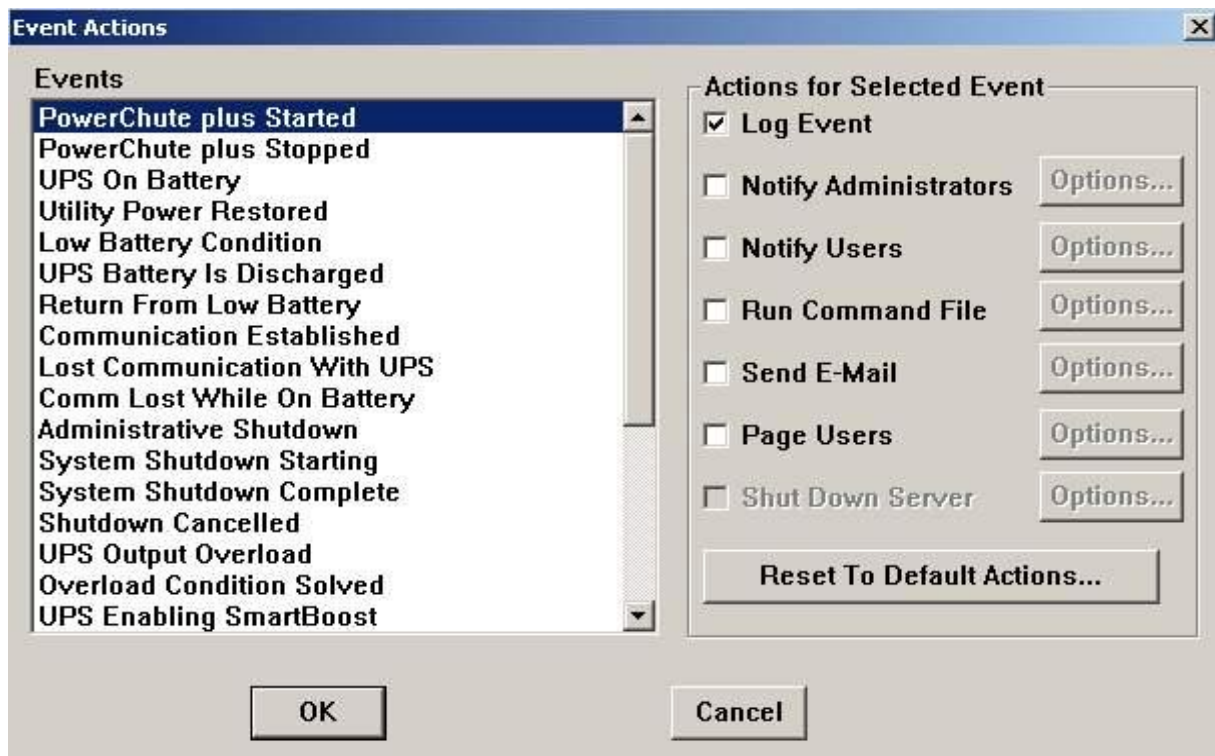


Fig. 8.5—13 UPS events and reactions

A more complete list of events is given in Tab. 8.5—1.

Tab. 8.5—1

ID Code	Event Name	Description
1000	PowerChute Started	PowerChute service started
1001	PowerChute Stopped	PowerChute service stopped
1002	Communication Established	Communication established
1003	Utility Power Restored	Utility power restored
1004	UPS Self-Test Passed	Self-test passed
1005	Administrative Shutdown	Administrative shutdown
1006	Shutdown Cancelled	Shutdown cancelled
1007	Returned From Low Battery	Battery is out of power
1009	UPS Battery Replaced	Battery replaced
1013	Overload Condition Solved	Overload condition is within normal limits
1014	Runtime Calibration Started	Runtime Calibration Started
1015	Runtime Calibration Finished	Runtime Calibration Finished
1016	System Shutdown Starting	System is shutting down
1102	UPS Internal Temperature In Bounds	Internal temperature is in normal range
2000	UPS On Battery	Electricity is off
2001	System Shutdown Complete	System has shut down
2002	UPS Enabling SmartBoost	Reduced voltage
2003	Low Battery Condition	Battery is low
2004	Runtime Calibration Aborted	Runtime calibration aborted
2007	UPS Enabling SmartTrim	Increased voltage
3000	Lost Communication With UPS	Communication lost
3001	UPS Output Overload	Overload
3002	UPS Self-Test Failed	Self-test failed
3003	UPS Battery Is Discharged	Battery discharged
3004	Comm Lost While On Battery	Comm Lost While On Battery
3016	Battery Needs Replacing	Battery must be replaced
3107	Maximum Internal Temperature Exceeded	High internal temperature

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

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

The installation package 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.

8.5.3 Example of configuring events notifying

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

1. In the list of events, select the **UPS On Battery** event and, for this event, enable the option **Run Command File** (Fig. 8.5—14).

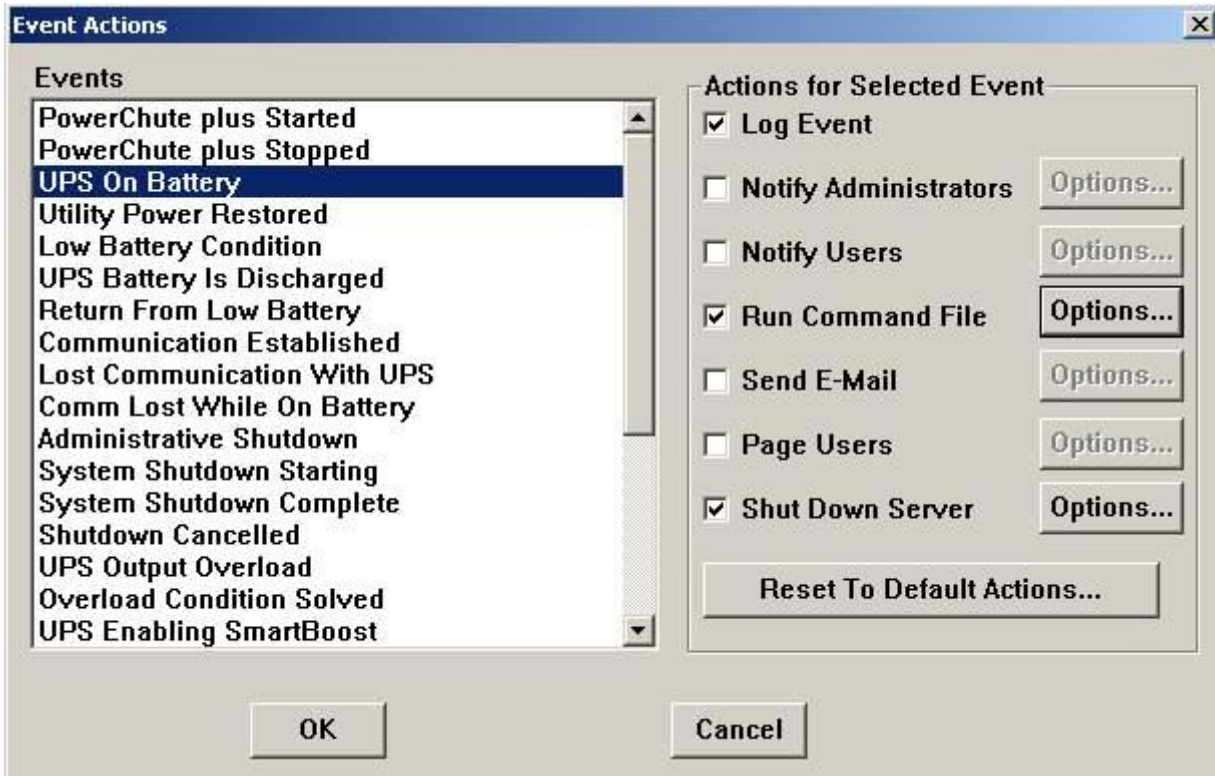


Fig. 8.5—14 UPS On Battery event

2. To the right of the **Run Command File** line, click the **Options...** button. In the dialog box that appears, indicate the full path to the StateUPS utility, which is what we want to start whenever this event occurs (Fig. 8.5—15). 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 Tab. 8.5—1).

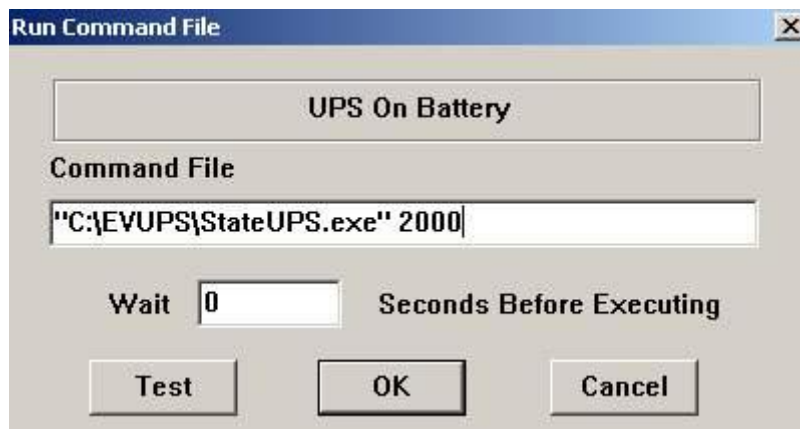


Fig. 8.5—15 Path to the StateUPS utility

- The equivalent actions for the **Utility Power Restored** event are shown in Fig. 8.5—16 and Fig. 8.5—17.

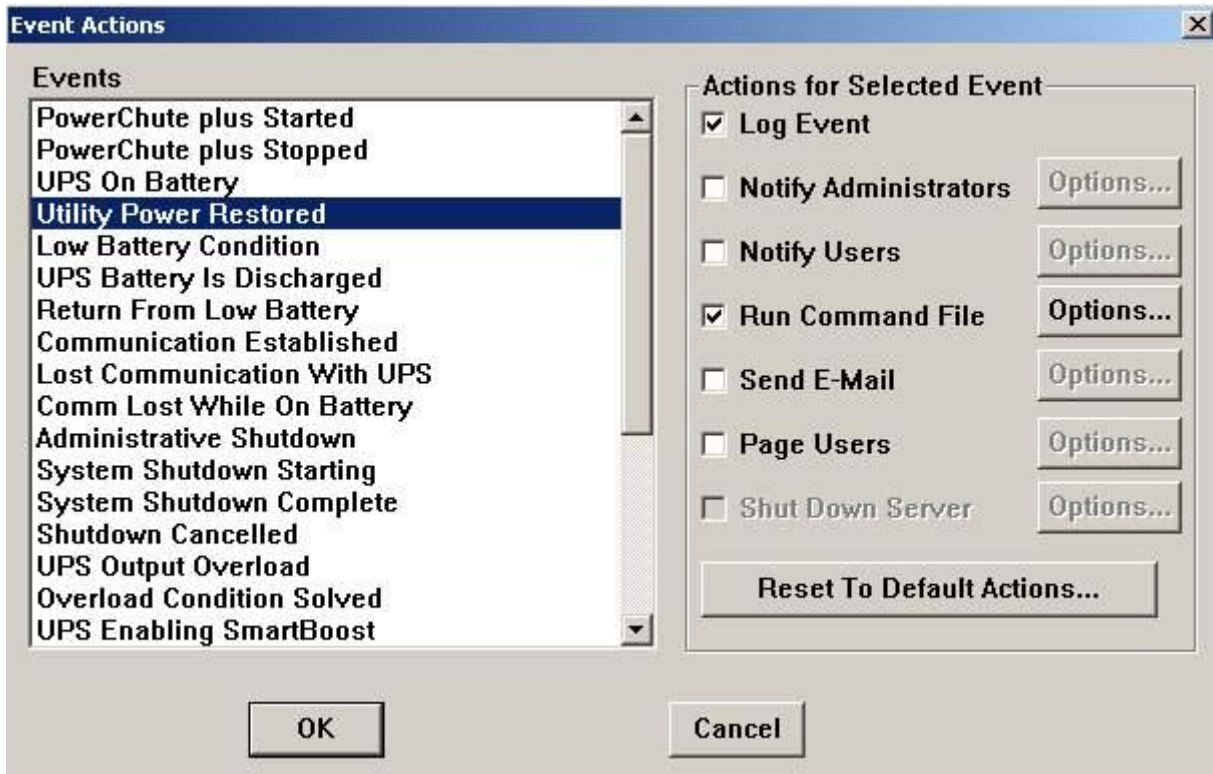


Fig. 8.5—16 Utility Power Restored event



Fig. 8.5—17 Path to the StateUPS utility

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

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

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

8.6 Integration with LanATM (Lanit)

To obtain captions from an ATM when using LanATM, which is developed by Lanit, follow the order of installation and configuration given below:

- Install Intellect
- Install LanATM
- Install ATM Intellect Pro
- Configure ATM Intellect Pro
- Configure LanATM

When one of the cameras is configured, create two **Captioner** objects (Fig. 8.6—1).



Fig. 8.6—1 Camera with two captioners

The Captioner with the smaller ID number will be used by ATM Intellect Pro; the second Captioner will be reserved for LanATM (Fig. 8.6—2).

Attention! ATM Intellect Pro and LanATM must use different Captioners.

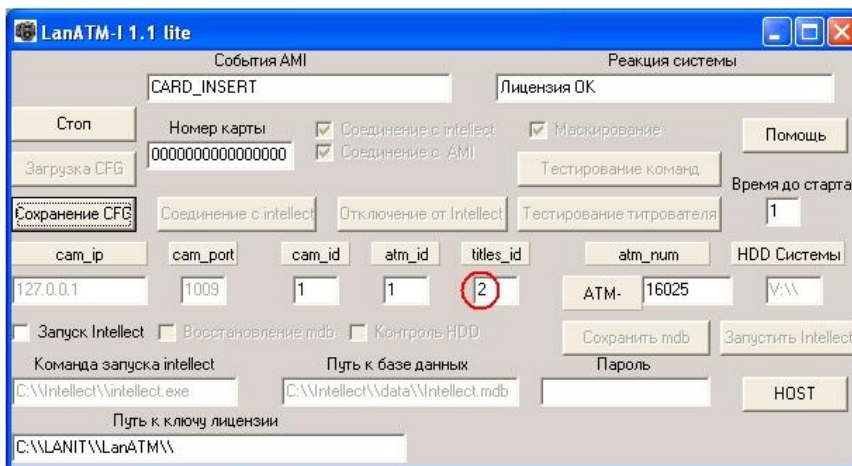


Fig. 8.6—2 LanATM utility

It is not necessary to turn off data display for the second Captioner (Fig. 8.6—3).

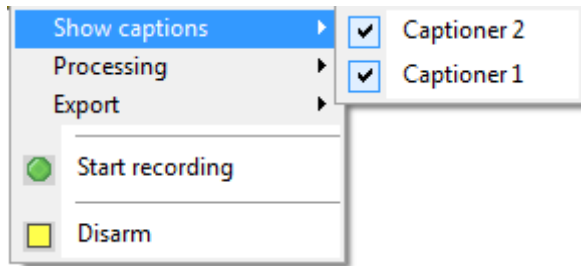


Fig. 8.6—3 Second captioner enabled

The video image will now display information from two Captioners (Fig. 8.6—4).

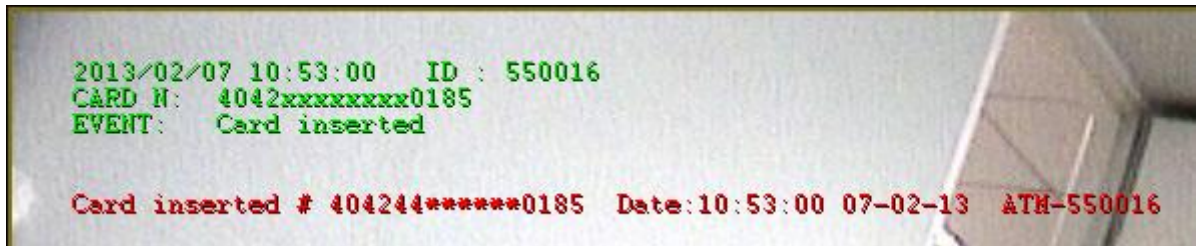


Fig. 8.6—4 Displaying titles from two captioners

8.7 Integration with DORS

When using the utility from DORS for Wincor Nixdorf ATMs, keep the following in mind:

- Since the utility sends events to Intellect through an **ATM** object, you must create this object in the objects tree in Intellect. Be sure not to confuse this with an **ATM machine** object (Fig. 8.7—1).

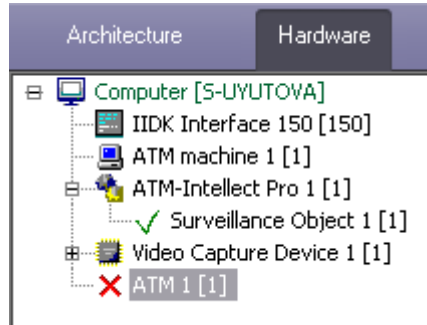


Fig. 8.7—1

- For the INSERT_CARD event, the card number is not sent. The card number is sent for the TRACK2 (card read), CARD_TAKEN (card taken by client), and CARD_RETAIN (card captured by ATM) events.
- The utility can send a total of over 20 events from the ATM. If captions are not necessary for some events, use the ATM Event Editor to disable them accordingly (Fig. 8.7—2). To start the editor, select Start>All Programs>Intellect>ATM Intellect Pro 5.0 >ATM Event Editor.

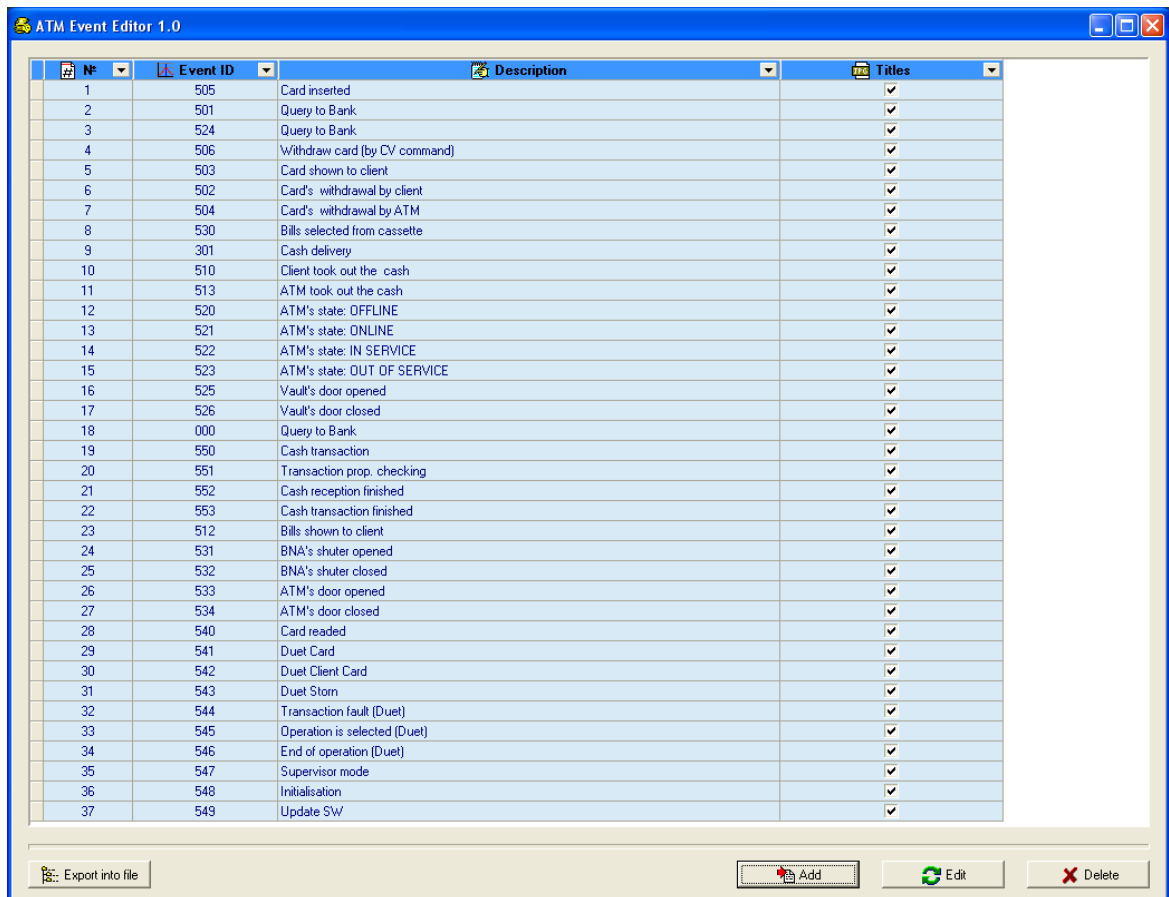


Fig. 8.7—2 ATM event editor

8.8 Integration with the “Gold crown”

8.8.1 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 «vmon_itv.reg» file and agree with saving changes in the registry.

With the help of the «regedit» utility configure parameters of the «vmon_itv.dll» repository in the «HKEY_LOCAL_MACHINE\SOFTWARE\ITV\AtmIntegration» registry section (Fig. 8.8—1).

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

Fig. 8.8—1

- *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.

8.8.2 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.

8.9 Features of operation within the Internet FPSU system

When the Internet FPSU system is in use, 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\VPipeSrv.exe
2. VPipe client. Installation file is in the ATM-Intellect installation kit at SoftForATM\VPipeClient.exe

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* (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 Workstation*). Connection between VPipe server and VPipe client is only possible when *ATM-Intellect Pro*, at its side, have established a connection to VPipe server.

VPipe complex is configured using Windows registry.

VPipe client parameters description (registry section HKEY_LOCAL_MACHINE\SOFTWARE\BITSoft\VPipe\VPipeClient) is given in table (Tab. 8.9—1)

Tab. 8.9—1 VPipe client parameters

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

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

VPipe server parameters description (registry section

HKEY_LOCAL_MACHINE\SOFTWARE\BITSoft\VPipe\VPipeSrv) is given in table (Tab. 8.9—2)

Tab. 8.9—2 VPipe server parameters

Name	Type	Default value	Description
PortATM	DWORD	8555	<i>ATM-Intellect Pro</i> port to which VPipe client connects
PortLVOS	DWORD	7777	VPipe server port to which <i>ATM-Intellect Pro</i> connects
FolderLog	String	C:\VPipeSrv\	Folder for storing module log files
LogPeriod	DWORD	1	Period of storage of the module log files in months
ExtLog	DWORD	0	If it is necessary to store contents of forwarded packages in the log

8.10 Transferring events from ATMs to the Intellect core

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

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

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

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

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

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

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

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

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

Example of a script using ATM events is given in *Example of script with using of ATM events*.

9 Data loader

9.1 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 (Fig. 9.1—1).



Fig. 9.1—1 Module icon in the toolbar

Double-click the checkmark to open the window shown in Fig. 9.1—2.

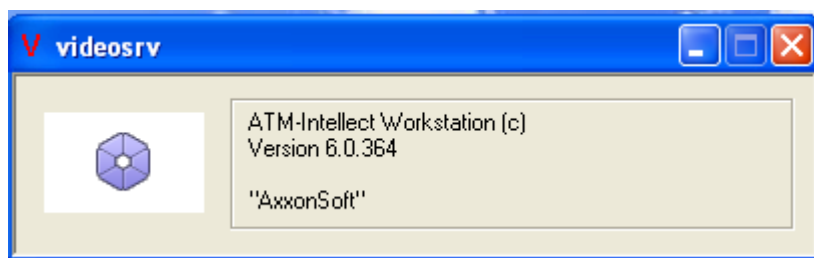


Fig. 9.1—2 Information on installed software

9.2 Data loader module

Data loader generates a badge representing this module is in the toolbar, in the lower-right corner of the screen (Fig. 9.2—1).

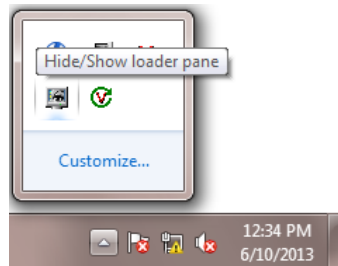


Fig. 9.2—1 Data loader icon

Right-click the badge to open a context menu (Fig. 9.2—2).

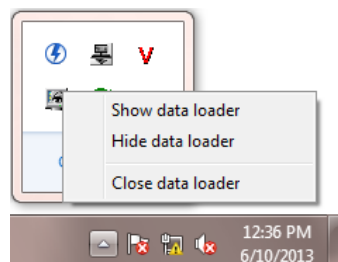


Fig. 9.2—2 Data loader menu

When you select **Show data loader** in the menu, the **Data loader for Monitoring** window opens (Fig. 9.2—3).

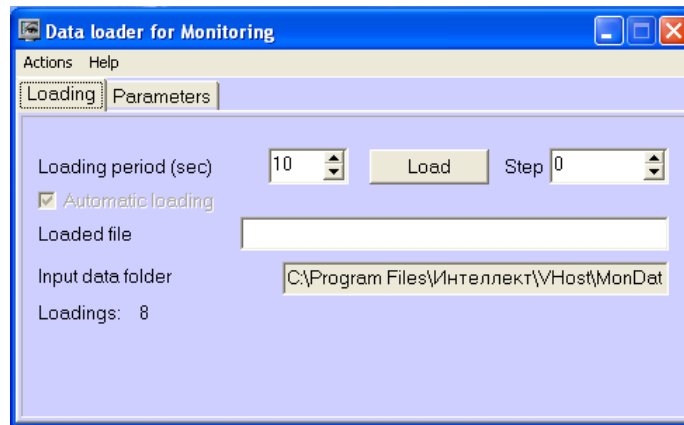


Fig. 9.2—3 Data loader for Monitoring window

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.

9.3 Database connection

The "Connection to database" menu item (Fig. 9.3—1) allows changing the string for connecting to the database.

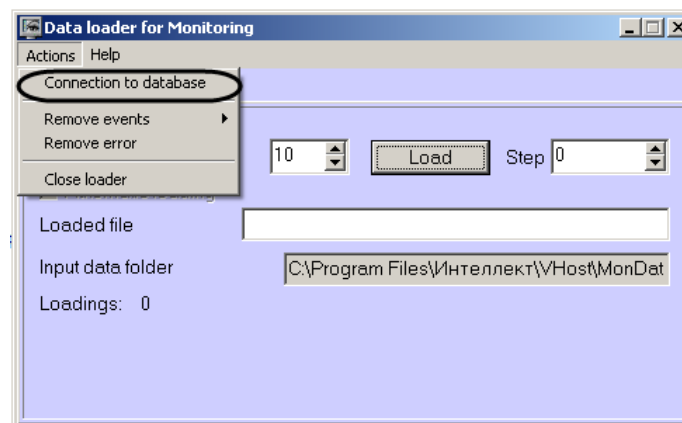


Fig. 9.3—1 Connection to database item

9.4 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 (Fig. 9.4—1).

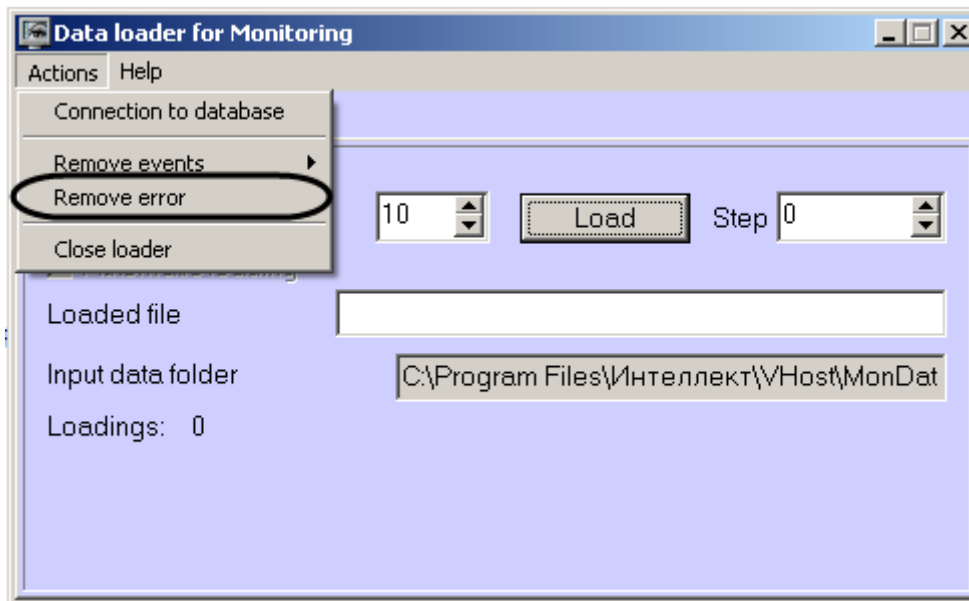


Fig. 9.4—1 Remove error item

9.5 Removing events

The Remove events menu item allows clearing the database to various degrees (Fig. 9.5—1):

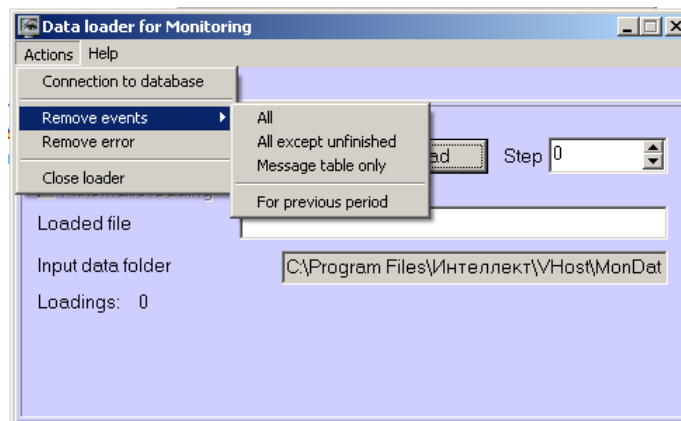


Fig. 9.5—1 Removing events

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.

9.6 Specifying the duration of the message log storing

The **Parameters** tab allows specifying the duration of time for which the Data loader messages are kept in the log (event log) (Fig. 9.6—1).

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.

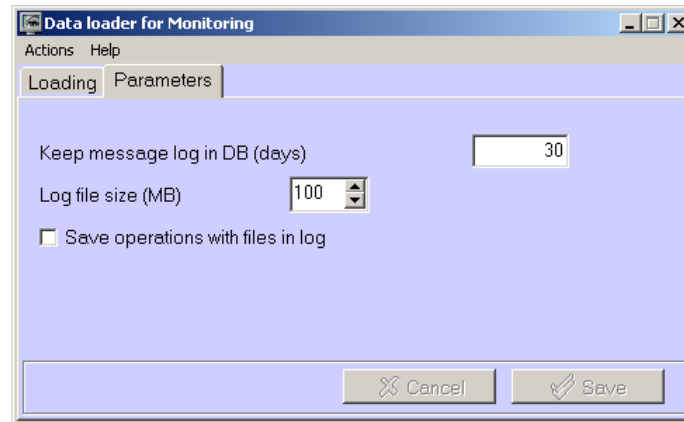


Fig. 9.6—1 The parameters tab

1. **Keep message log in DB (days):** You can specify for how long will the data be kept in the MonitorSSTV database tables.
1. **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.
2. **Save operations with files in log:** gives details of file operations by the Data loader for Monitoring in the event log.

10 ATM-Intellect interface configuration

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

ATM-Intellect interface includes the following objects:

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

These objects are created under the **Display** object on the Interfaces tab. It is recommended to create each of the objects under its own **Display** (Figure 9.6—1).



Figure 9.6—1 ATM-Intellect ARM interface objects

Operations with interface objects are given in the *ATM-Intellect software. Operator's Guide document*.

10.1 Configuring the “ATM Monitoring” object

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

1. Go to the **ATM Monitoring** settings panel (Figure 10.1—1).
2. If the **Control panel** displaying is needed, set the **Control panel** checkbox and specify its coordinates on the screen (Figure 10.1—1, 1).

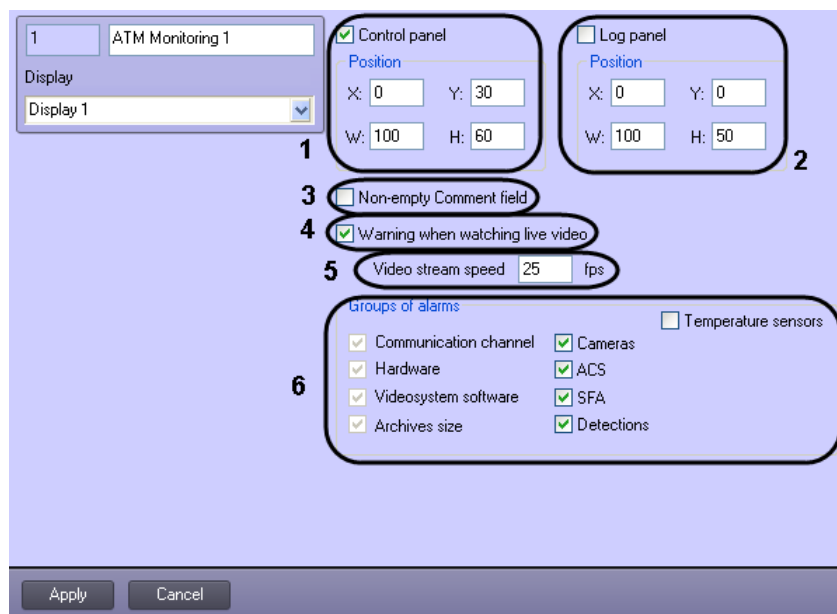


Figure 10.1—1 Configuring the ATM Monitoring object

3. If the **Log panel** displaying is needed, set the **Log panel** checkbox and specify its coordinates on the screen (see Figure 10.1—1, 2).
4. The setting **Non-empty comment field** is used if the operator is required to comment on the alarm and/or their actions when the alarm is accepted (see Figure 10.1—1, 3). This comment is available for viewing in the event log as well as the name of the operator who accepted the alarm.

- 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 (see Figure 10.1—1, 4).

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

- In the **Speed of video stream** field specify the frame rate for live video displaying in frames per second (see Figure 10.1—1, 5). This parameter is used to limit the flow of data between the *ATM Intellect Workstation* and the *ATM Intellect Pro* (for example, in the case of low-bandwidth communication channel) while viewing live video from the objects through the **ATM Monitoring** window (see document *ATM Intellect. Operator's guide*).

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

- Select groups of alarms for the **Control panel** and the **Log panel** to be displayed (see Figure 10.1—1, 6).

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

If display is selected under which the **ATM Monitoring** object is created, the **ATM Monitoring** window will be displayed (Figure 10.1—2).

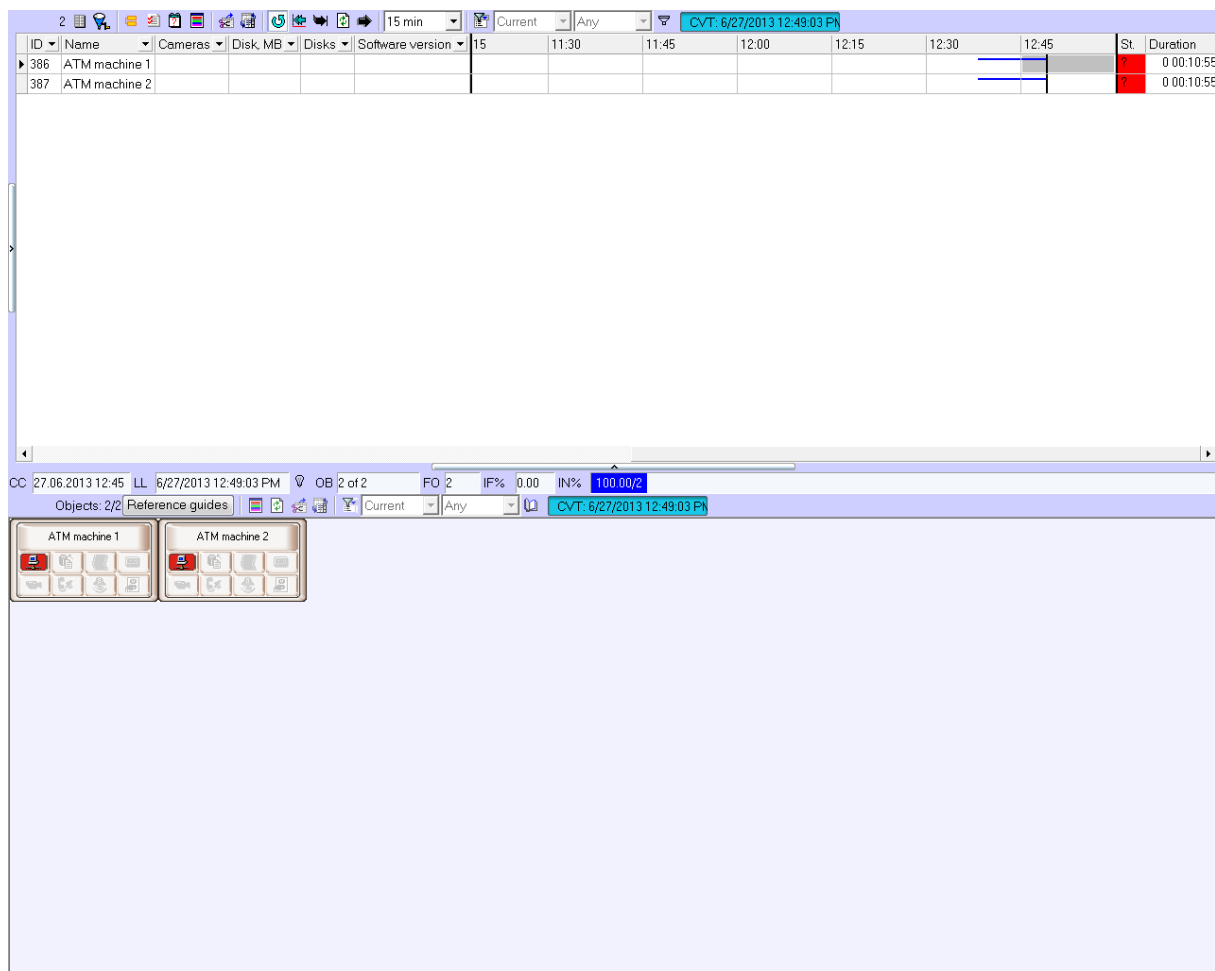


Figure 10.1—2 ATM Monitoring window

10.2 Settings the “Search in archive” and “ATM Monitoring reports” objects

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

To set the objects **Search in archive** (Figure 10.2—1) and **ATM Monitoring reports** (Figure 10.2—2) one only needs specify their location on the screen.

1 Search in archive 1
Display
Display 2
Position
X: 0 Y: 0
W: 100 H: 100

Figure 10.2—1 Search in archive settings panel

1 ATM Monitoring reports 1
Display
Display 3
Position
X: 0 Y: 0
W: 100 H: 100

Figure 10.2—2 ATM Monitoring reports setting panel

If display is selected under which the **Search in archive** object is created the **Search in archive** window will be displayed (Figure 10.2—3).

Search in archive Downloads
Object name
[550018] ATM machine 3
Search
Period from: 2/ 5/2014 12:00:00 AM
to: 2/ 5/2014 10:32:04 AM
By captions:
By video clips of all cameras
By video clips of camera:
Data receive timeout (min.): 3
Search Cancel
Request
Video Frames
Settings

Figure 10.2—3 The Search in archive window

If display is selected under which the **ATM Monitoring reports** object is created the **ATM Monitoring reports** window will be displayed (Figure 10.2—4).



Figure 10.2—4 The ATM Monitoring reports window

11 Appendix 1. Interfaces

11.1 Settings panel of the ATM-Intellect Workstation object

Settings panel of the **ATM-Intellect Workstation** object is given on figure (Fig. 11.1—1).

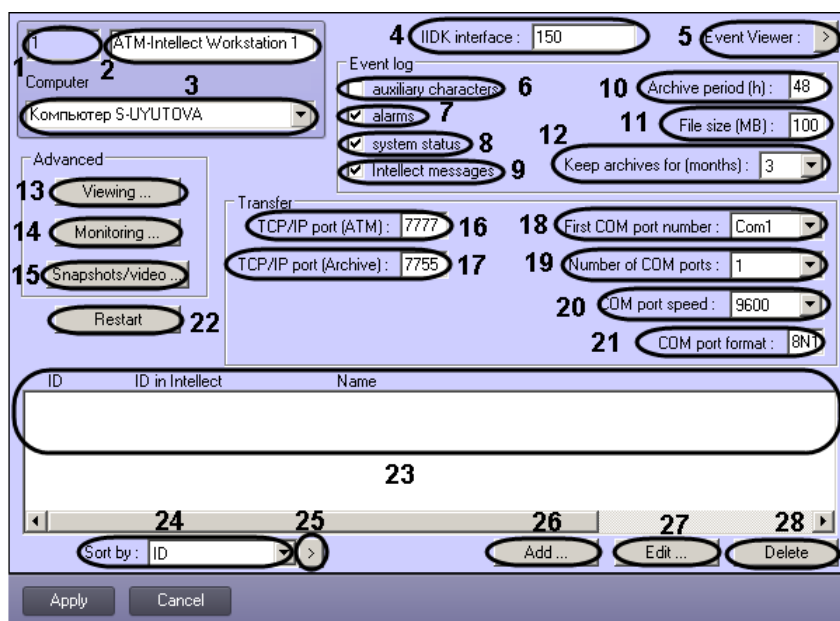


Fig. 11.1—1 Settings panel of the ATM-Intellect Workstation object

Description of the **ATM-Intellect Workstation** object settings panel elements is given in table (Tab. 11.1—1).

Tab. 11.1—1 Elements of settings panel of the ATM-Intellect Workstation object

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

#	Parameter	Method for setting the parameter value	Description	Type	Default value	Value range
			Workstation object	registered in the system.	object	in the system.
4	IIDK interface	Enter the value in the field	Sets the ID number of IIDK interface object used by the ATM-Intellect Workstation	Nonnegative integer	150	>=150
5	Event log	Click the button	Opens the ATM-Intellect Workstation event log	-	-	-
Event log group						
6	auxiliary characters	Is set in a checkbox	Enables logging of auxiliary characters at the transport level into the event log	Boolean	False	True - logging of auxiliary characters is enabled False - logging of auxiliary characters is not performed
7	alarms	Is set in a checkbox	Enables logging alarms into the event log	Boolean	True	True - logging of alarms is enabled False - logging of alarms is not performed
8	system status	Is set in a checkbox	Enables logging of events related to system status	Boolean	True	True - logging of events related to system status is enabled False - logging of events related to system status is not performed
9	Intellect messages	Is set in a checkbox	Enables logging of messages from Intellect software The log is stored in <Intellect installation>\VHost\video.log	Boolean	True	Yes - logging of messages from Intellect software is enabled Yes - logging of messages from Intellect software is disabled
10	Archive period (h)	Enter the value in the field	Sets the frequency at which the event log is to be archived	Hours	48	>0
11	File size (MB)	Enter the value in the field	Sets the file size threshold upon which the event log is archived. This setting overrides the value in the Archive frequency field.	Megabytes	100	>0

#	Parameter	Method for setting the parameter value	Description	Type	Default value	Value range
12	Keep archives for (months)	Enter the value in the field	Sets the length of time for which you want to store archived event logs.	Months	3	from 1 to 24
Advanced group						
13	Viewing...	Click the button	Opens a dialog box for selecting data to display in the Event viewer.	-	-	-
14	Monitoring...	Click the button	Opens a dialog box for setting data transmission onto ATM-Intellect Workstation TC	-	-	-
15	Snapshots/video...	Click the button	Opens a dialog box for configuring reaction to snapshots and videos receiving on sensors alarms at the <i>ATM-Intellect Pro</i>	-	-	-
Transfer group						
16	TCP/IP port (ATM)	Enter the value in the field	Sets the port number for TCP/IP communication with remote objects of ATM-Intellect Pro	Nonnegative integer	7777	from 1 to 65535
17	TCP/IP port (Archive)	Enter the value in the field	Sets the port number for TCP/IP communication with remote <i>Search in archive</i> module	Nonnegative integer	7755	from 1 to 65535
18	First COM port number	Is selected in the list	Sets the first COM port number	COM-ports names	Com1	from Com1 to Com256
19	Number of COM ports	Is selected in the list	Sets number of COM ports used	Nonnegative integer	1	from 1 to 256
20	COM port speed	Is selected in the list	Sets the COM port speed	Baud	9600	110 300 1200 2400 4800 9600 19200 38400 57600
21	COM port format	Enter the value in the field	Sets the COM port format	COM port format	8N1	<ul style="list-style-type: none"> • first digit: from 5 to 9 data bits; • second letter: N (No parity) - no parity bit, E (Even parity) - even parity bit, O (Odd parity) - odd parity bit;

#	Parameter	Method for setting the parameter value	Description	Type	Default value	Value range
						<ul style="list-style-type: none"> third digit: 1 or 2 stop bits.
Outside the groups						
22	Restart	Click the button	<i>VideoSrv</i> communication module restarting	-	-	-
23	Surveillance Object objects	Using the Add, Edit and Delete buttons	Displays the list of Surveillance Object objects for which monitoring of status is performed from the <i>ATM-Intellect Workstation</i>	-	-	-
24	Sort by	Is selected in the list	Sets the sorting method for Surveillance Object objects in the table	Sorting methods	ID	ID ID in Intellect Name
25	>	Click the button	Apply the sorting method selected in the Sort by list	-	-	-
26	Add...	Click the button	Opens a dialog box for adding a Surveillance Object into the list	-	-	-
27	Edit...	Click the button	Opens a dialog box for editing a Surveillance Object in the list This window is the same as for adding a Surveillance Object	-	-	-
28	Delete	Click the button	Deletes a Surveillance Object from the list	-	-	-

11.2 Settings panel of the ATM-Intellect Workstation TC object

Settings panel of the **ATM-Intellect Workstation TC** object is given on figure (Fig. 11.2—1).

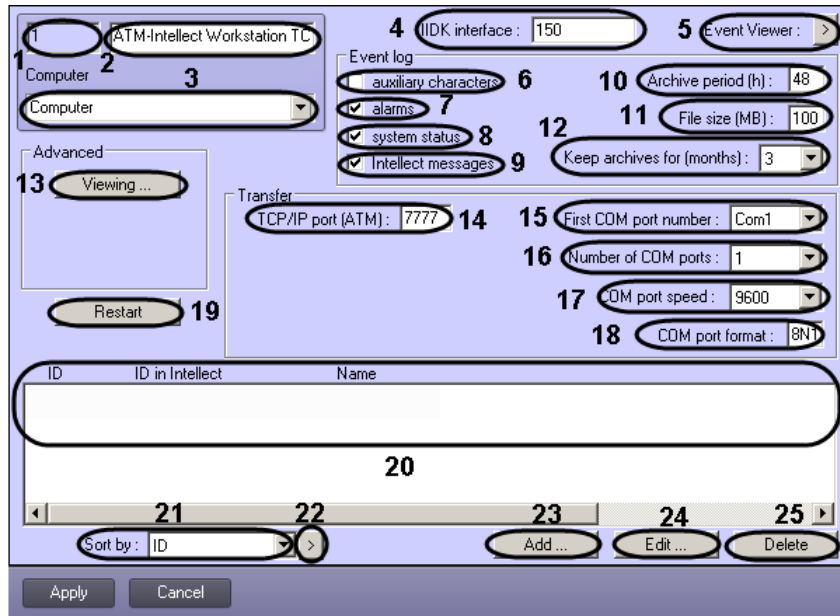


Fig. 11.2—1 Settings panel of the ATM-Intellect Workstation TC object

Description of the **ATM-Intellect Workstation TC** object settings panel elements is given in table (Tab. 11.2—1).

Tab. 11.2—1 Elements of settings panel of the ATM-Intellect Workstation TC object

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

#	Parameter	Method for setting the parameter value	Description	Type	Default value	Value range
5	Event log	Click the button	Opens the ATM-Intellect Workstation TC event log	-	-	-
Event log group						
6	auxiliary characters	Is set in a checkbox	Enables logging of auxiliary characters at the transport level into the event log	Boolean	False	True - logging of auxiliary characters is enabled False - logging of auxiliary characters is not performed
7	alarms	Is set in a checkbox	Enables logging alarms into the event log	Boolean	True	True - logging of alarms is enabled False - logging of alarms is not performed
8	system status	Is set in a checkbox	Enables logging of events related to system status	Boolean	True	True - logging of events related to system status is enabled False - logging of events related to system status is not performed
9	Intellect messages	Is set in a checkbox	Enables logging of messages from Intellect software The log is stored in <Intellect installation>\VHost\video.log	Boolean	True	Yes - logging of messages from Intellect software is enabled Yes - logging of messages from Intellect software is disabled
10	Archive period (h)	Enter the value in the field	Sets the frequency at which the event log is to be archived	Hours	48	>0
11	File size (MB)	Enter the value in the field	Sets the file size threshold upon which the event log is archived. This setting overrides the value in the Archive frequency field.	Megabytes	100	>0
12	Keep archives for (months)	Enter the value in the field	Sets the length of time for which you want to store archived event logs.	Months	3	from 1 to 24
Advanced group						

#	Parameter	Method for setting the parameter value	Description	Type	Default value	Value range
13	Viewing...	Click the button	Opens a dialog box for selecting data to display in the Event viewer.	-	-	-
Transfer group						
14	TCP/IP port (ATM)	Enter the value in the field	Sets the port number for TCP/IP communication with remote objects of ATM-Intellect ARM	Nonnegative integer	7777	from 1 to 65535
15	First COM port number	Is selected in the list	Sets the first COM port number	COM-ports names	Com1	from Com1 to Com256
16	Number of COM ports	Is selected in the list	Sets number of COM ports used	Nonnegative integer	1	from 1 to 256
27	COM port speed	Is selected in the list	Sets the COM port speed	Baud	9600	110 300 1200 2400 4800 9600 19200 38400 57600
28	COM port format	Enter the value in the field	Sets the COM port format	COM port format	8N1	<ul style="list-style-type: none"> • first digit: from 5 to 9 data bits; • second letter: N (No parity) - no parity bit, E (Even parity) - even parity bit, O (Odd parity) - odd parity bit; • third digit: 1 or 2 stop bits.
Outside the groups						
29	Restart	Click the button	<i>VideoSrv</i> communication module restarting	-	-	-
20	Surveillance Object objects	Using the Add, Edit and Delete buttons	Displays the list of Surveillance Object objects for which monitoring of status is performed from the <i>ATM-Intellect Workstation TC</i>	-	-	-
21	Sort by	Is selected in the list	Sets the sorting method for Surveillance Object objects in the table	Sorting methods	ID	ID ID in Intellect Name
22	>	Click the button	Apply the sorting method selected in the Sort by list	-	-	-

#	Parameter	Method for setting the parameter value	Description	Type	Default value	Value range
23	Add...	Click the button	Opens a dialog box for adding a Surveillance Object into the list	-	-	-
24	Edit...	Click the button	Opens a dialog box for editing a Surveillance Object in the list This window is the same as for adding a Surveillance Object	-	-	-
25	Delete	Click the button	Deletes a Surveillance Object from the list	-	-	-

11.3 Settings panel of the ATM-Intellect Pro object

Settings panel of the **ATM-Intellect Pro** object is given on figure (Fig. 11.3—1).

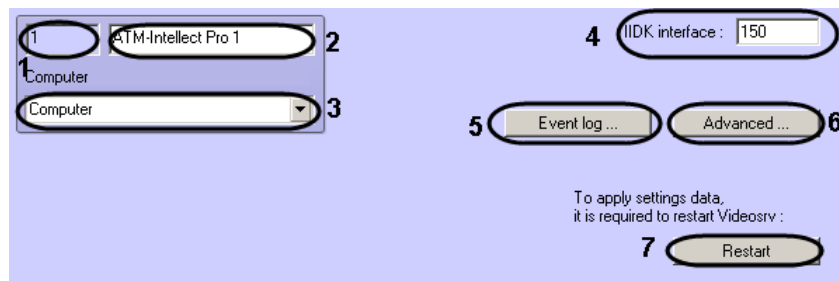


Fig. 11.3—1 Settings panel of the ATM-Intellect Pro object

Description of the **ATM-Intellect Pro** object settings panel elements is given in table (Tab. 11.3—1).

Tab. 11.3—1 Elements of settings panel of the ATM-Intellect Pro object

#	Parameter	Method for setting the parameter value	Description	Type	Default value	Value range
1	Identifier	Automatically	Shows the identification number of the ATM-Intellect Pro object in the system	Nonnegative integer	-	≥ 0
2	Parameter	Enter the value in the field	Shows the name of the ATM-Intellect Pro object in the system	Latin, Cyrillic letters and service characters	ATM-Intellect Pro	A line representing a sequence of any symbols (letters, digits, service characters apart from > and < symbols), not case-sensitive. Number of symbols – from 1 to 60.

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

11.4 Settings panel of the Surveillance object object

Settings panel of the **Surveillance object** object is given on figure (Fig. 11.4—1).

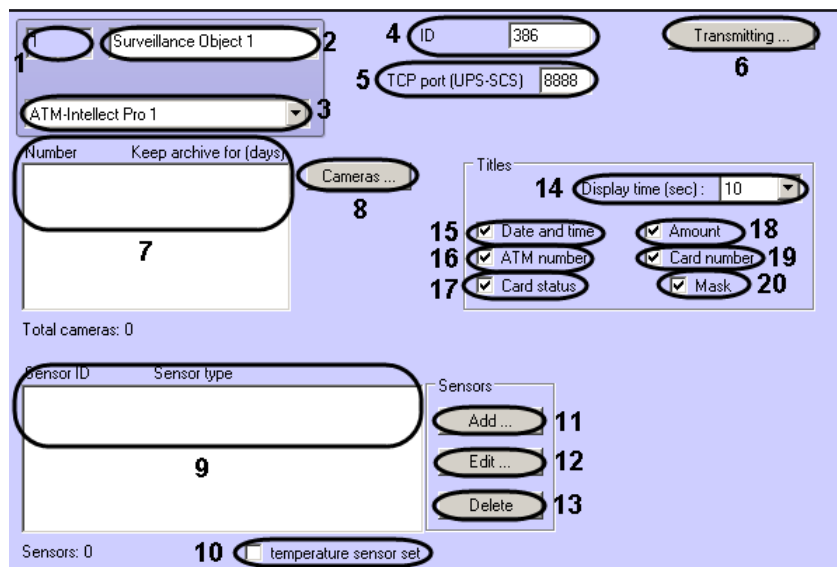


Fig. 11.4—1 Settings panel of the Surveillance object object

Description of the **Surveillance object** object settings panel elements is given in table (Tab. 11.4—1).

Tab. 11.4—1 Elements of settings panel of the Surveillance object object

#	Parameter	Method for setting the parameter value	Description	Type	Default value	Value range

#	Parameter	Method for setting the parameter value	Description	Type	Default value	Value range
1	Identifier	Automatically	Shows the identification number of the Surveillance object object in the system	Nonnegative integer	-	Depends on number of Surveillance object objects in the system
2	Parameter	Enter the value in the field	Shows the name of the Surveillance object object in the system	Latin, Cyrillic letters and service characters	Surveillance object	A line representing a sequence of any symbols (letters, digits, service characters apart from > and < symbols), not case-sensitive. Number of symbols – from 1 to 60.
3	ATM-Intellect Pro	Is selected in the list	Assigns the parent ATM-Intellect Pro object for the Surveillance object object	Names of Surveillance object objects registered in the system	Name of the parent ATM-Intellect Pro object	Depends on the number of the ATM-Intellect Pro objects in the system.
4	ID	Enter the value in the field	Sets the unique ID number of the ATM machine	Nonnegative integer	386	>=0
5	TCP port (UPS)	Enter the value in the field	Sets the port on which to "listen" for UPS messages	Nonnegative integer	8888	from 1 to 65535
6	Transmitting...	Click the button	Opens a dialog box with settings for configuring the communication between <i>ATM-Intellect Pro</i> and <i>ATM-Intellect Workstation</i>	-	-	-
7	Cameras	Using the Cameras... button	Displays the list of cameras whose state and archives are monitored by <i>ATM-Intellect Pro</i> and operating with which shall be available from <i>ATM-Intellect</i> software interface.	-	-	-
8	Cameras...	Click the button	Opens a dialog box for adding cameras for monitoring their status	-	-	-
9	Sensors	Using the Add , Edit and Delete	Displays IDs and types of sensors whose state is monitored by <i>ATM-Intellect</i>	-	-	-

#	Parameter	Method for setting the parameter value	Description	Type	Default value	Value range
		buttons	Pro and on whose triggering video data are sent to the ATM-Intellect Workstation.			
10	temperature sensor set	Is set in a checkbox	Specifies if monitoring to ensure that temperatures do not deviate from an allowed range is performed using temperature sensors	Boolean	False	True - temperature sensors set is in use False - temperature sensors set is not in use
11	Add...	Click the button	Opens a dialog box for adding a sensor. In this dialog box one can also setup video data sending on the sensor triggering	-	-	-
12	Edit...	Click the button	Opens a dialog box for editing the sensor. This dialog box is similar to the one for adding a sensor	-	-	-
13	Delete	Click the button	Deletes sensor from the list	-	-	-
Titles group						
14	Displaying time (sec.)	Is selected in the list	Sets duration of captions displaying on video image beginning at the moment of corresponding event appearing from the secured object (ATM)	Seconds	10	5, 10, 15, 20, 30, 45, 60, 90, 120, 200
15	Date and time	Is set in a checkbox	Specifies if it is necessary to include event date and time into the captions	Boolean	True	Yes - date and time are included into the captions No - date and time are not included into the captions
16	ATM number	Is set in a checkbox	Specifies if it is necessary to include into the captions the number of ATM from which the event came	Boolean	True	Yes - ATM number is included into the captions No - ATM number is not included into the captions

#	Parameter	Method for setting the parameter value	Description	Type	Default value	Value range
17	card status	Is set in a checkbox	Specifies if it is necessary to include data on card status into the captions	Boolean	True	Yes - card status is included into the captions No - card status is not included into the captions
18	amount	Is set in a checkbox	Specifies if it is necessary to include operation amount into the captions	Boolean	True	Yes - amount is included into the captions No - amount is not included into the captions
19	card number	Is set in a checkbox	Specifies if it is necessary to include card number into the captions	Boolean	True	Yes - ATM number is included into the captions No - ATM number is not included into the captions
20	mask	Is set in a checkbox	Specifies if it is necessary to apply mask to a card number when displaying in in the captions	Boolean	True	Yes - card number is masked No - card number is fully displayed

11.5 Settings panel of the ATM Monitoring interface object

Settings panel of the **ATM Monitoring** interface object is given on figure (Fig. 11.5—1).

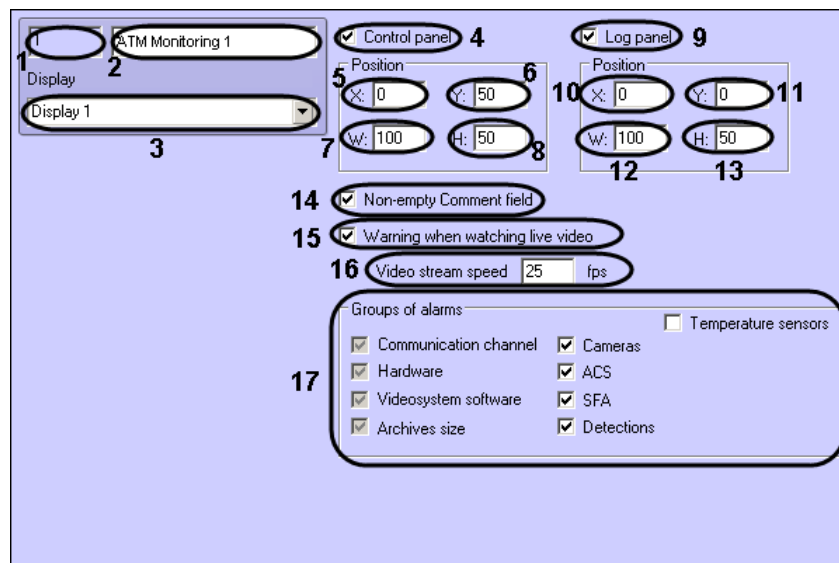


Fig. 11.5—1 Settings panel of the ATM Monitoring object

Description of the **ATM Monitoring** object settings panel elements is given in table (Tab. 11.5—1).

Tab. 11.5—1 Elements of settings panel of the ATM Monitoring object

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

#	Parameter	Method for setting the parameter value	Description	Type	Default value	Value range
			box			connected to the computer it is possible to use coordinates outside this range, but it is not recommended to use coordinates less than -200.
8	H:	Enter the value in the field	Set the height of the Control panel interface box	% of the screen height	50	from 0 to 100. When more than one monitor is connected to the computer it is possible to use coordinates outside this range, but it is not recommended to use coordinates less than -200.
9	Log panel	Is set in a checkbox	Enables Log panel displaying	Boolean	True	True - Log panel is displayed False - Log panel is hidden
10	X:	Enter the value in the field	Set the X coordinate in the horizontal axis for the upper-left corner of the Log panel interface box	% of the screen width	0	from 0 to 100. When more than one monitor is connected to the computer it is possible to use coordinates outside this range, but it is not recommended to use coordinates less than -200.
11	Y:	Enter the value in the field	Set the Y coordinate in the vertical axis for the upper-left corner of the Log panel interface box	% of the screen height	0	from 0 to 100. When more than one monitor is connected to the computer it is possible to use coordinates outside this range, but it is not recommended to use coordinates less than -200.
12	W:	Enter the value in the field	Set the width of the Log panel interface box	% of the screen width	100	from 0 to 100. When more than one monitor is connected to the computer it is possible to use coordinates outside this range, but it is not recommended to use coordinates less than -200.
13	H:	Enter the value in the field	Set the height of the Log panel interface box	% of the screen width	50	from 0 to 100. When more than one monitor is connected to the computer it is possible to use coordinates outside this range, but it is not recommended to use

#	Parameter	Method for setting the parameter value	Description	Type	Default value	Value range
						coordinates less than -200.
14	Non-empty Comment field	Is set in a checkbox	Is set to require that operators leave comments when accepting an alarm to describe the alarm and/or their actions	Boolean	True	True - Comment field shall not be empty on alarm accepting False - alarm accepting can be done without a comment from Operator
15	Warning when watching live video	Is set in a checkbox	Is set if when live video is attempted to be viewed from Control Panel it is necessary to display a warning that it can create the critical load per data channel <i>Attention! This setting is not available at the ATM-Intellect Workstation TC</i>	Boolean	True	True - when live video is attempted to be viewed from Control Panel the warning is displayed False - when live video is attempted to be viewed from Control Panel the video is displayed with no warnings
16	Video stream speed	Enter the value in the field	Sets the frame rate for live video displaying <i>Attention! This setting is not available at the ATM-Intellect Workstation TC</i>	Frames per second	25	Depnds on the camera features
17	Groups of alarms	Is set in a checkbox	Sets alarms that one want to visualize on the Control panel	Boolean	All checkboxes except the Temperature sensors are set	If checkbox is set next to the group of alarms, then alarm from the corresponding group will be displayed on the Control panel

11.6 Settings panel of the Search in archive interface object

Settings panel of the **Search in archive** interface object is given on figure (Fig. 11.6—1).

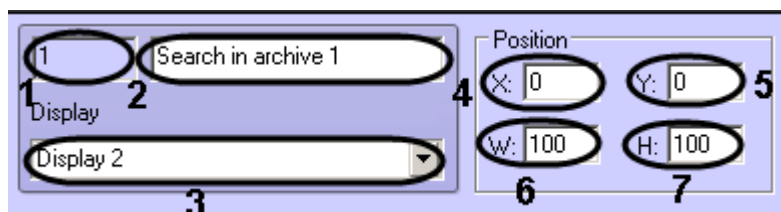


Fig. 11.6—1 Settings panel of the Search in archive object

Description of the **Search in archive** object settings panel elements is given in table (Tab. 11.6—1).

Tab. 11.6—1 Settings panel of the Search in archive object

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

11.7 Settings panel of the ATM Monitoring reports interface object

Settings panel of the **ATM Monitoring reports** interface object is given on figure (Fig. 11.7—1).



Fig. 11.7—1 Settings panel of the ATM Monitoring reports object

Description of the **ATM Monitoring reports** object settings panel elements is given in table (Tab. 11.7—1).

Tab. 11.7—1 Settings panel of the ATM Monitoring reports object

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

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

12 Appendix 2. Examples of scripts

12.1 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")
{
[
    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.

]
}

```

12.2 Example of script with using of ATM events

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

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

```

OnEvent("ATM_ITV","1","INSERT_CARD")

{
[

    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 (Fig. 12.2—1).

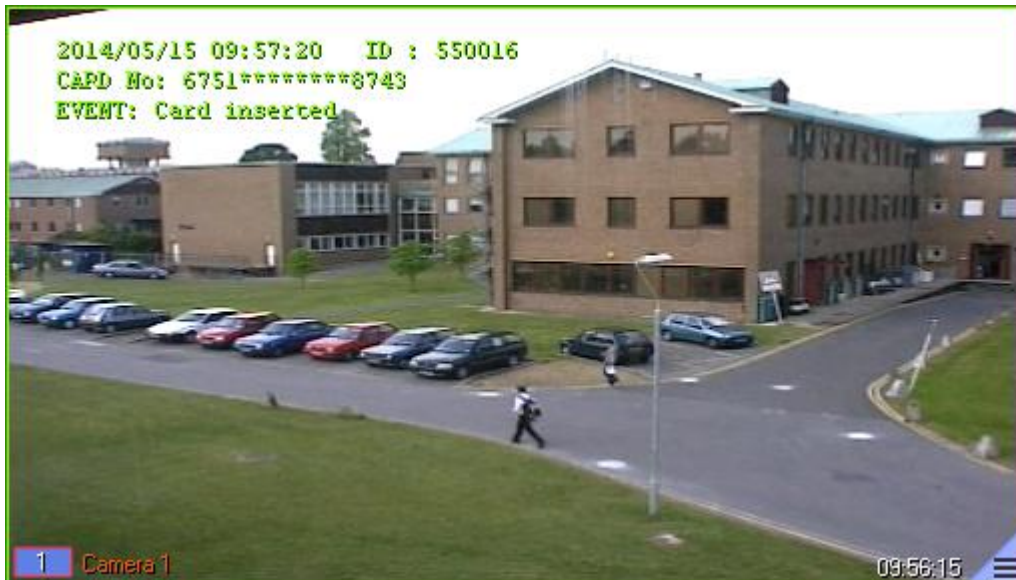


Fig. 12.2—1 Script results

13 Appendix 3. ATM Event Capture utility

13.1 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.

13.2 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 *Administrator's Guide*).

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

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

13.3 Installing ATM Event Capture

13.3.1 Installer description

The installer for ATM Event Capture is built on InstallShield 2010 and includes the file setupEventATM.exe (Fig. 13.3—1).

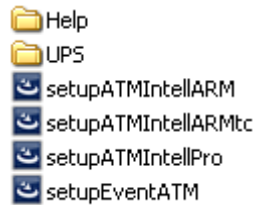


Fig. 13.3—1 ATM Event Capture installer

Documentation is available in the Help folder.

13.3.2 Preparing to install

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.

13.3.3 Installation steps

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

1. To start installation from the installation kit, start the file setupEventATM.exe. After you select a language for installation, the installation wizard informs that the installation process has begun (Fig. 13.3—2).

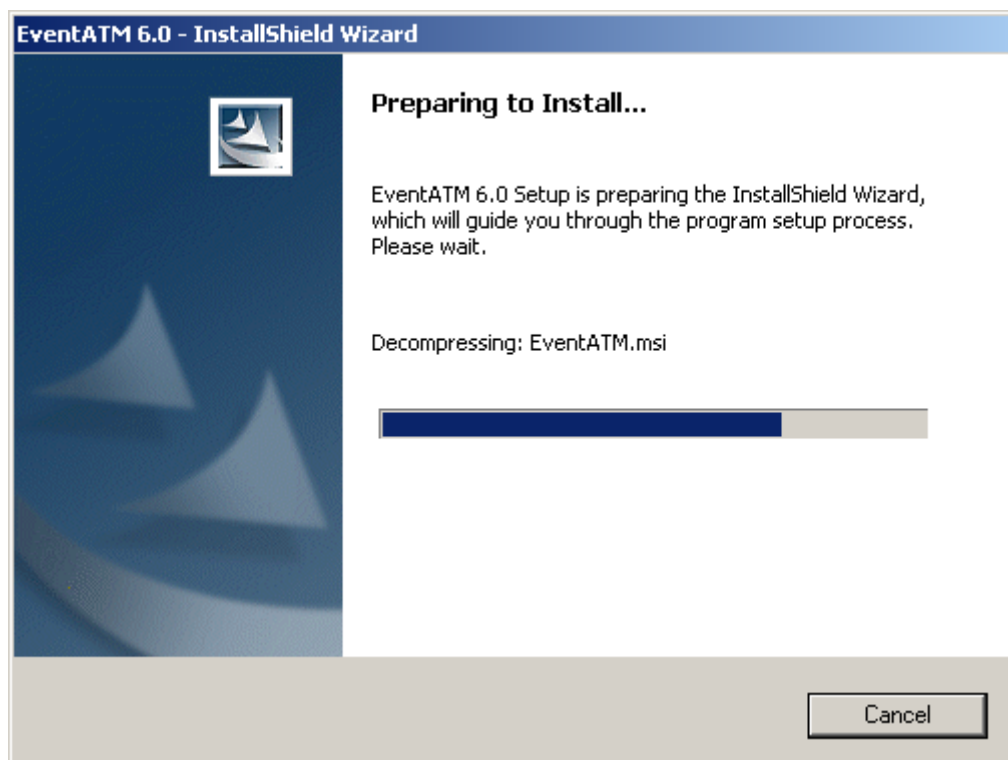


Fig. 13.3—2 Preparing to install

2. You are prompted to start installation (Fig. 13.3—3). Click the **Next** button (Fig. 13.3—4).

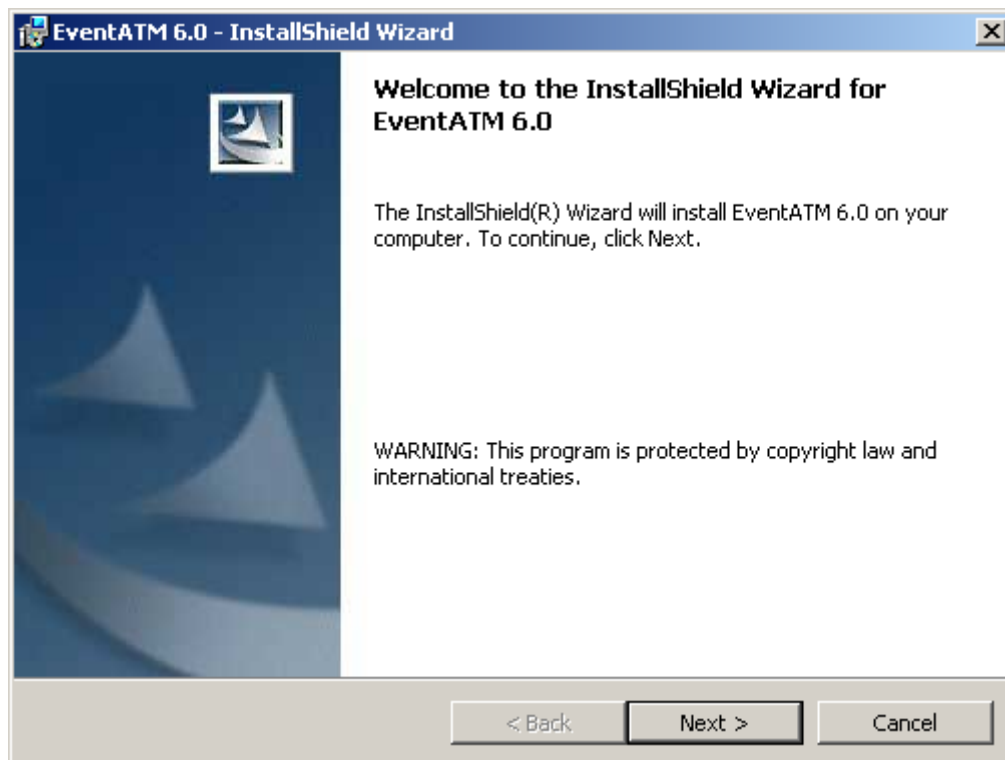


Fig. 13.3—3 Installation begins

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** (Fig. 13.3—4).

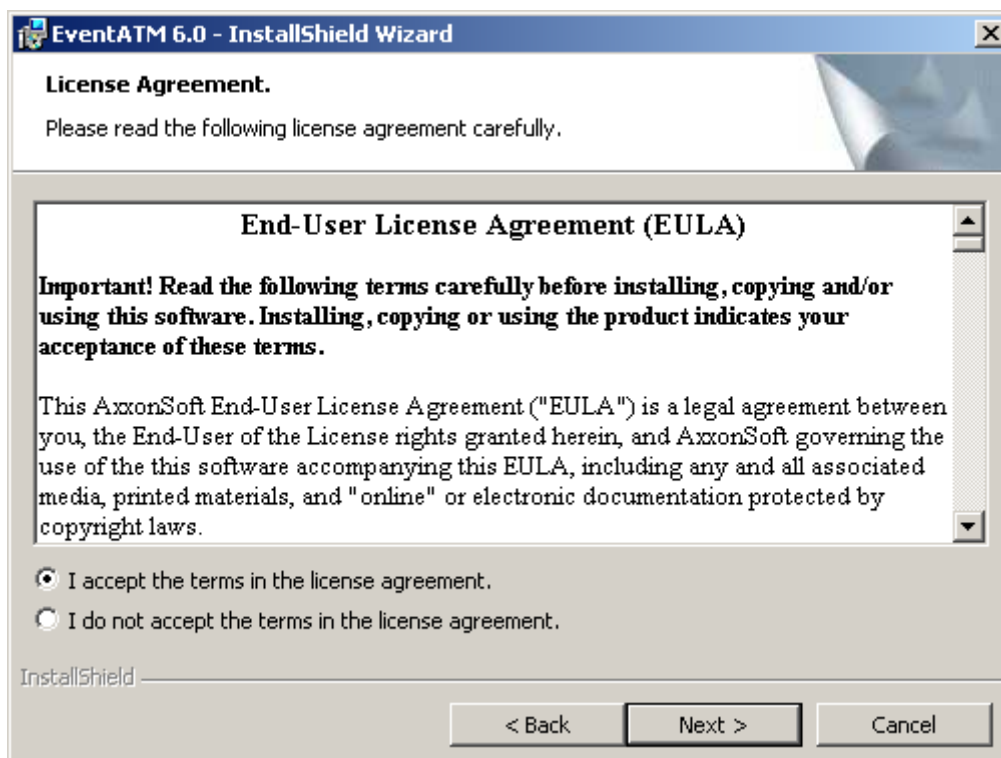


Fig. 13.3—4 License agreement

4. In the wizard page that appears, specify the path to the folder in which the software will be installed (Fig. 13.3—5).

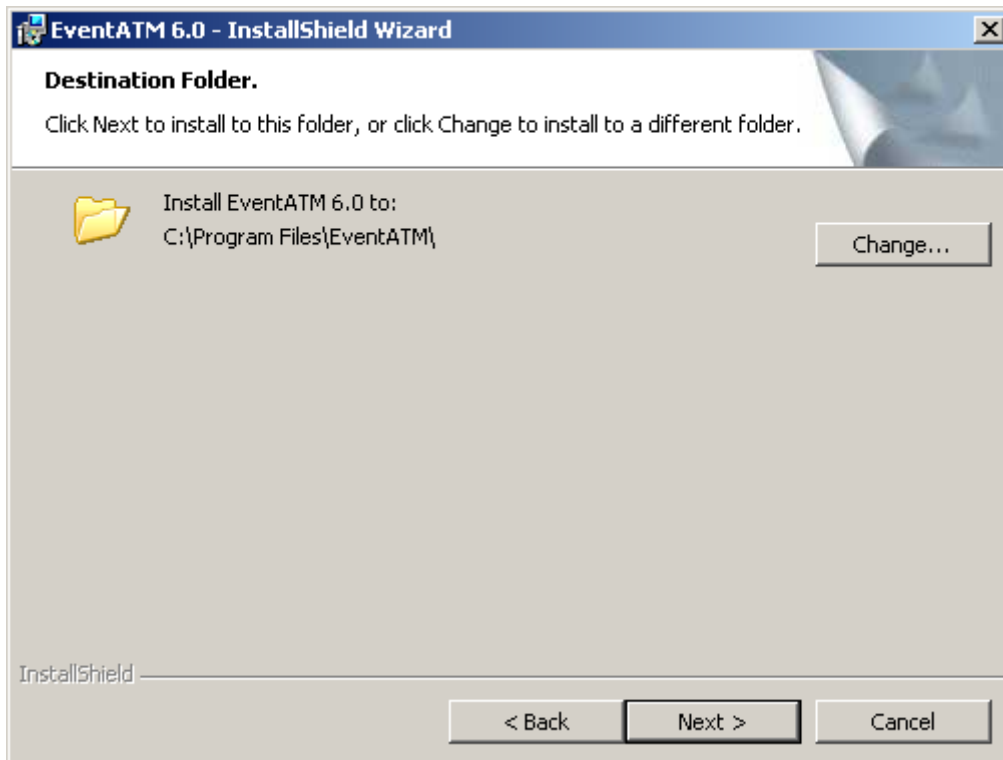


Fig. 13.3—5 Setting installation folder

If you do not want to use the default folder, click the **Change...** button and specify another folder (Fig. 13.3—6). Otherwise, click the **Next** button.

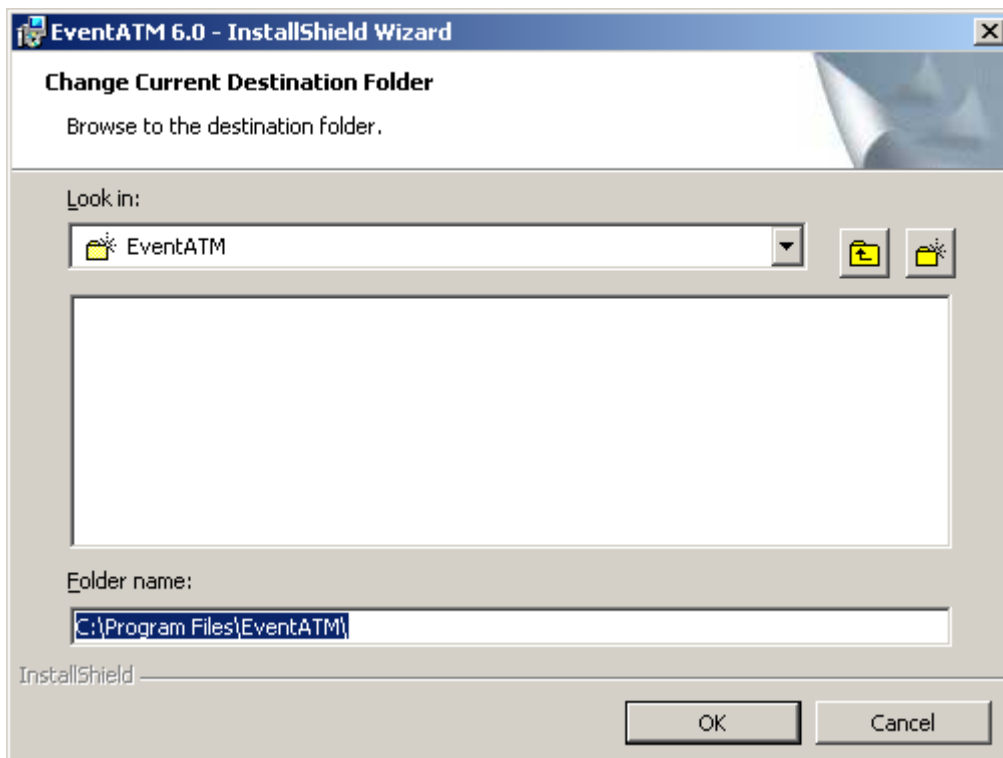


Fig. 13.3—6 Changing installation folder

5. The necessary libraries will be installed (Fig. 13.3—7).

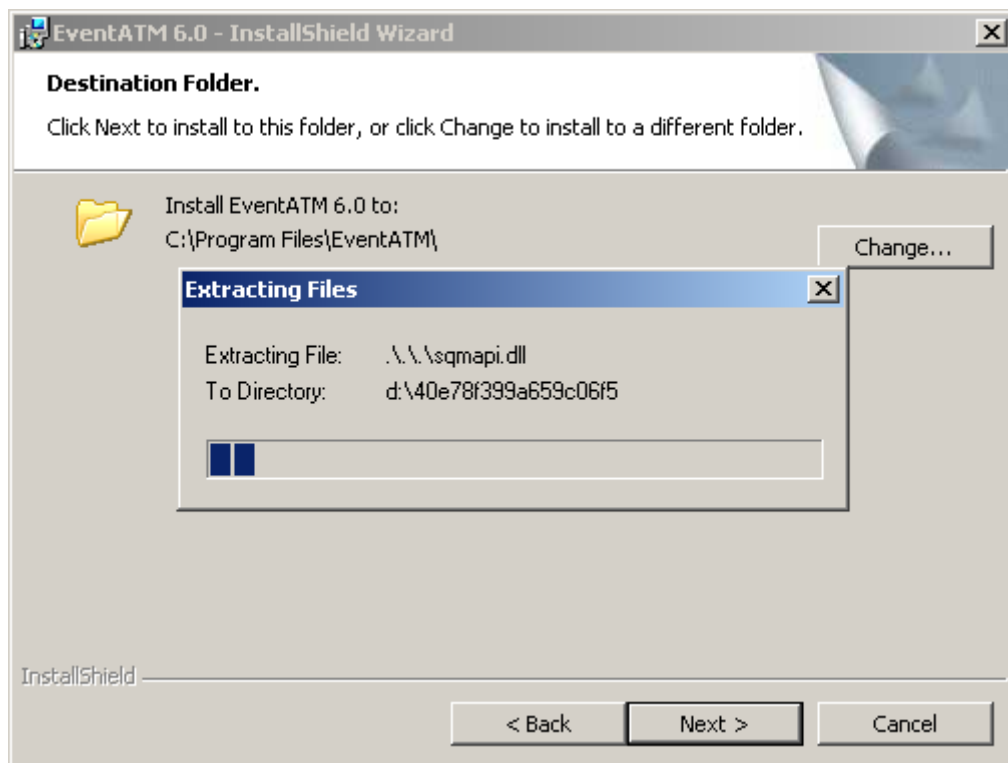


Fig. 13.3—7 Libraries installation

6. After libraries are installed, the ATM Event Capture utility is installed (Fig. 13.3—8).

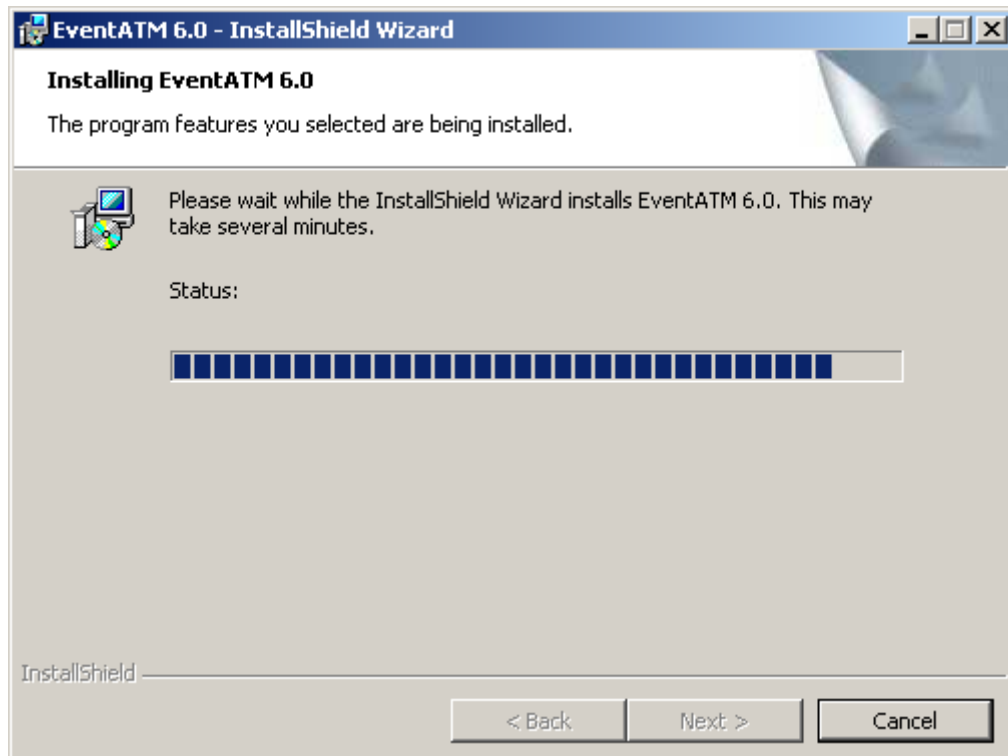


Fig. 13.3—8 ATM Event Capture installation status

7. After final installation tasks are completed, the wizard informs that the software has been successfully installed (Fig. 13.3—9).

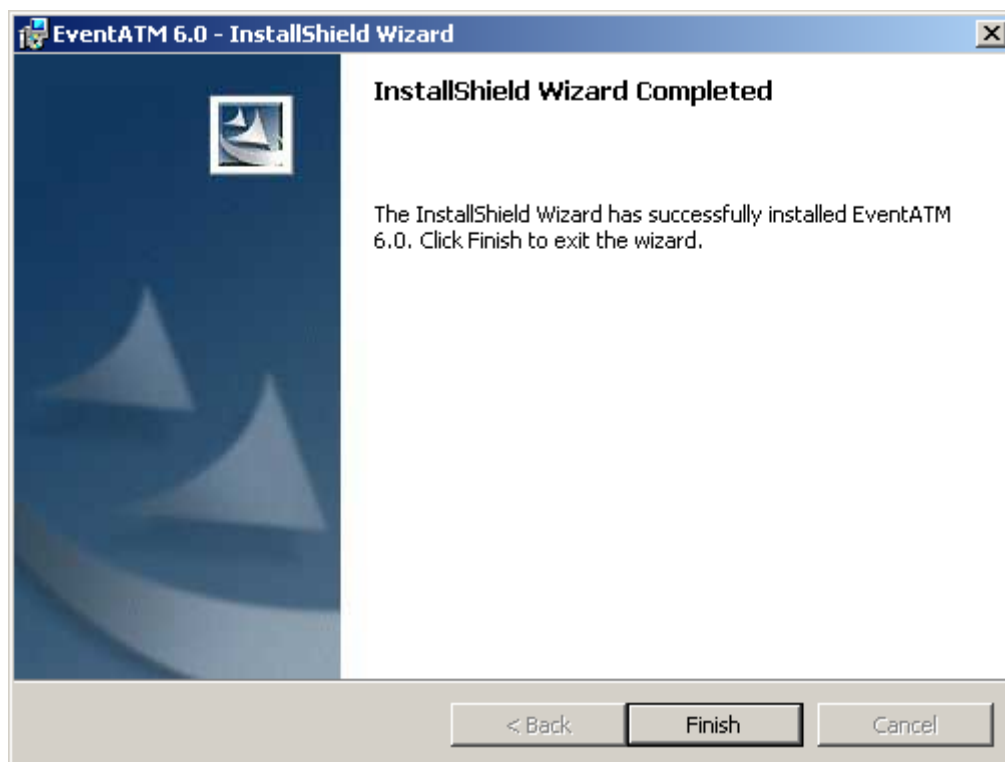


Fig. 13.3—9 Installation completed

ATM Event Capture installation is completed.

13.4 ATM Event Capture configuration

13.4.1 ATM Event Capture starting

To start ATM Event Capture select **Start>All Programs>EventATM 6.0>EventATM** (Fig. 13.4—1).



Fig. 13.4—1 Utility launch from the Start menu

The program icon (a green checkmark) appears in the taskbar notification area (system tray) (Fig. 13.4—2).



Fig. 13.4—2 Utility icon in the taskbar

Double-clicking the icon opens a dialog box with settings for ATM Event Capture (Fig. 13.4—3).

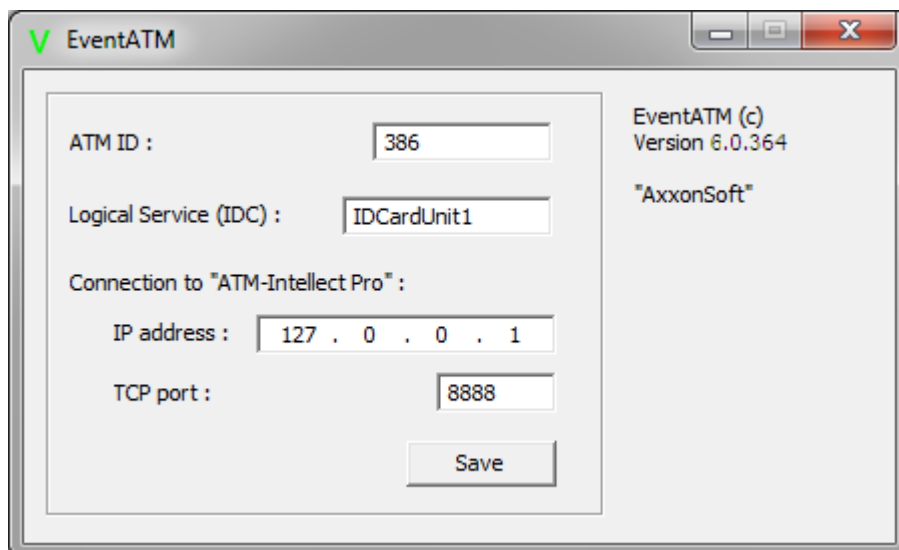


Fig. 13.4—3 ATM Event Capture settings dialog box

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

13.4.2 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 (Fig. 13.4—4).

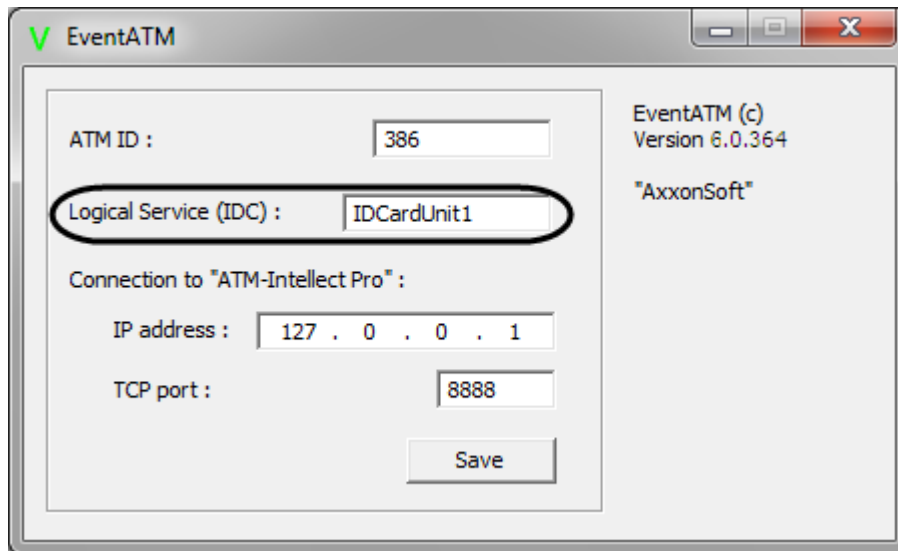


Fig. 13.4—4 The Logical service (IDC) parameter

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 (Fig. 13.4—5).

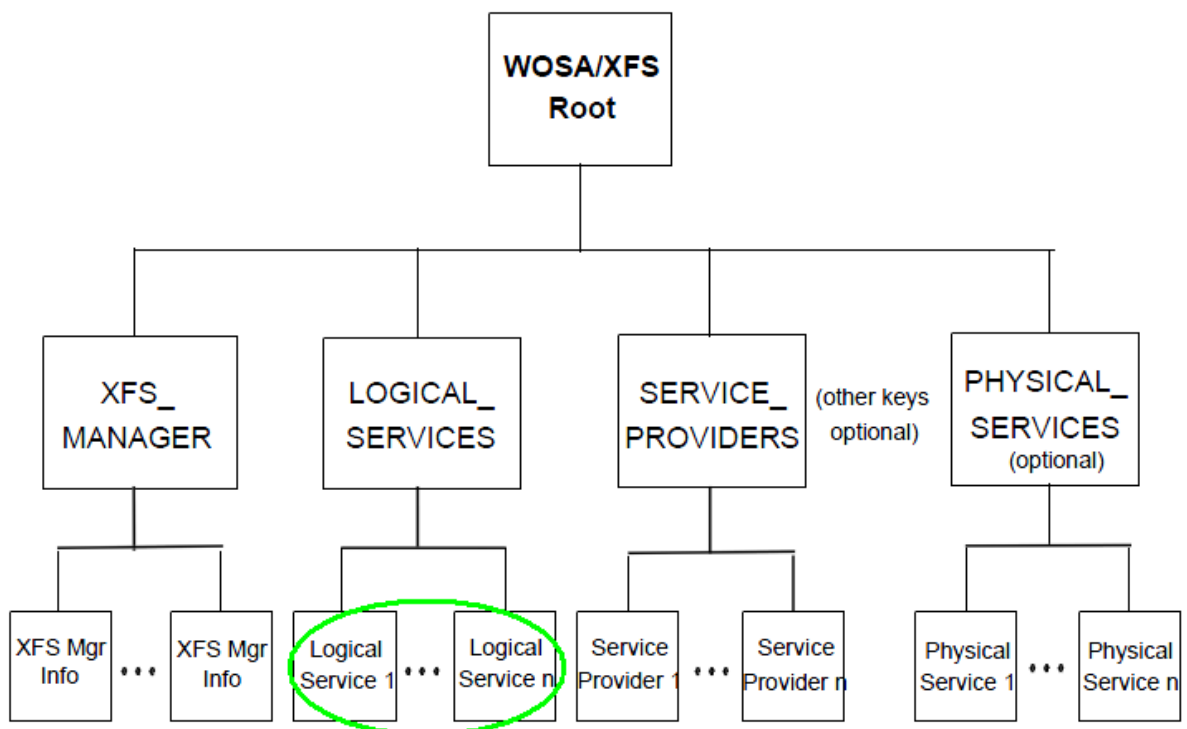


Fig. 13.4—5 Place of value storing for earlier versions of XFS

For later versions of XFS, this value is stored in the registry key HKEY_USERS\DEFAULT\XFS\LOGICAL_SERVICES\LS (Fig. 13.4—6).

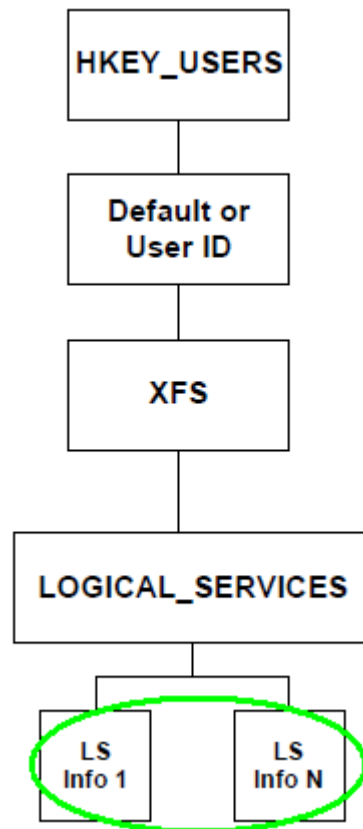


Fig. 13.4—6 Place of value storing for later versions of XFS

The LOGICAL_SERVICES hive contains keys for each service provider (card reader, PIN entry pad, receipt printer, etc.) (Fig. 13.4—7).

```

[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"
  
```

Fig. 13.4—7 Keys for each service provider

What we are interested in is the logical name of the card reader service provider ("class" = "IDC"). In the example given in Fig. 13.4—7, the logical name is "MyCardReader". This is the value that should be indicated in ATM Event Capture (Fig. 13.4—4).

For ATMs made by NCR, the logical name of the card reader service provider is "IDCardUnit1". For ATMs made by Wincor, the logical name is "IDC30" ("IDC", in older versions).

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 ().

13.4.3 Configuring the connection to the ATM-Intellect Pro

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

1. In the **ATM ID** field specify identification number of the ATM. This value should match the "ID" value in the settings of ATM Intellect Pro (Fig. 13.4—9, Fig. 13.4—8, 1).

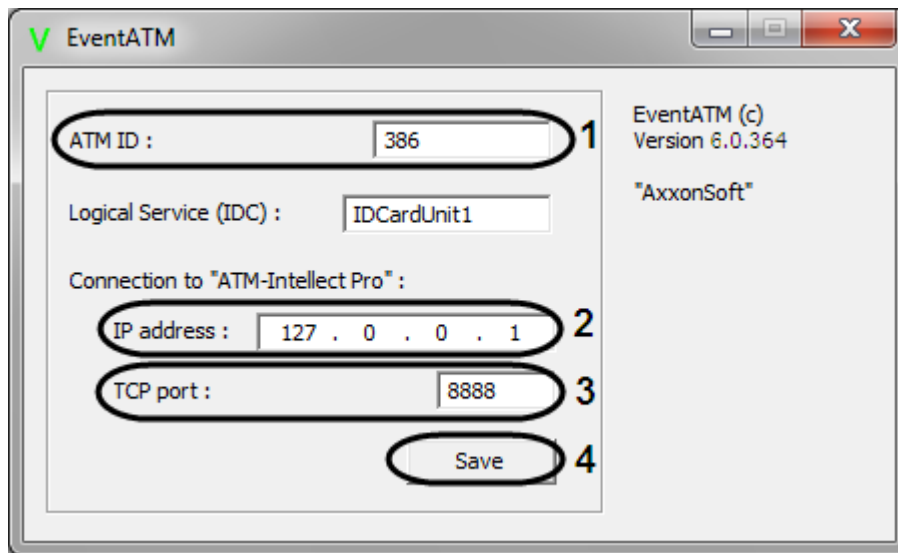


Fig. 13.4—8 Configuring connection to the ATM Intellect Pro

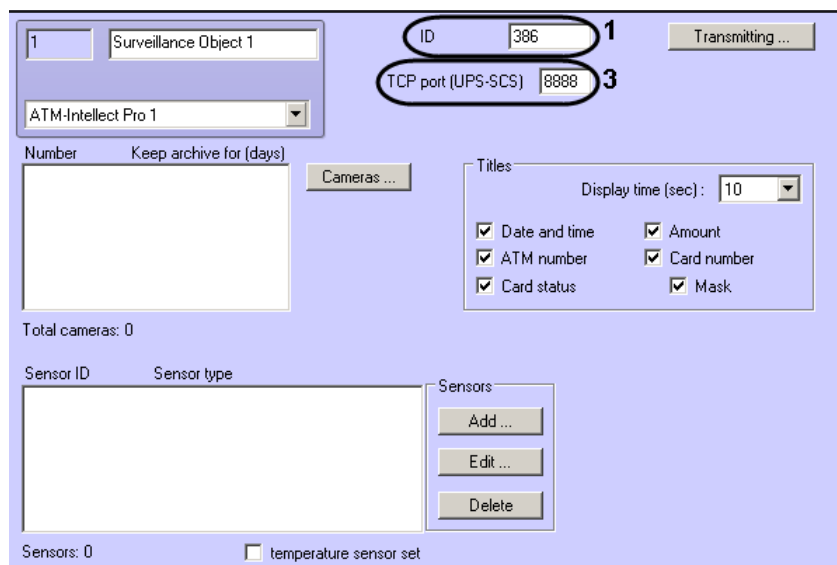


Fig. 13.4—9 ID and TCP port parameters on the setting panel of the ATM-Intellect Pro

2. In the **IP address** specify the IP address of the computer on which Intellect and ATM Intellect Pro are installed (Fig. 13.4—8, 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 (Fig. 13.4—9, Fig. 13.4—8, 3).
4. To save settings, click the **Save** button (Fig. 13.4—3, 4).

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

13.4.4 Configuring card number masking

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

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

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

Note. To use the ATM Event Capture mask deselect the Mask checkbox in the Surveillance object object settings panel. The object is part of the ATM-Intellect Pro software (Fig. 13.4—10).

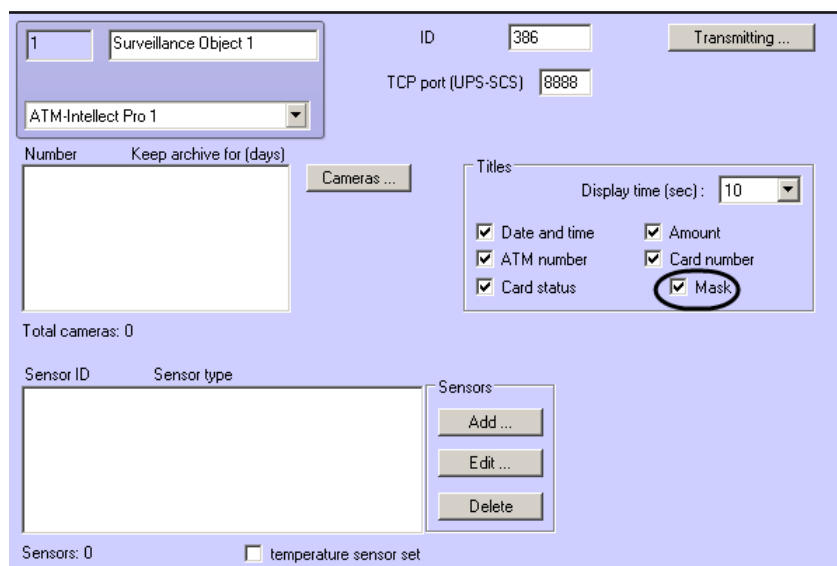


Fig. 13.4—10 The Mask checkbox

13.5 ATM Event Capture operation

13.5.1 ATM Event Capture principle of operation

After the computer is restarted, ATM Event Capture is started automatically as a system service (Fig. 13.5—1).

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

Fig. 13.5—1 ATM Event Capture running as a 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 6.0>EventATM** (Fig. 13.5—2).



Fig. 13.5—2 Utility launch from the Start menu

13.5.2 Capturing events

ATM Event Capture captures the following card reader events:

1. Card inserted
2. Card taken by client
3. Card captured by ATM

The following information is overlaid on the image, as captions (Fig. 13.5—3):

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

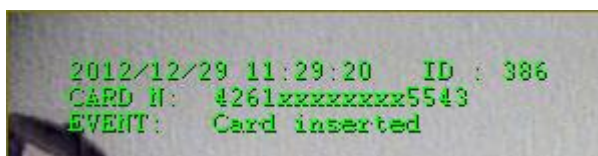


Fig. 13.5—3 Captions on the video image

If you do not want to overlay captions for a certain event, do the following on the computer on which ATM Intellect Pro is installed: select **Start>All Programs>Intellect>ATM Intellect Pro 6.0>ATM Event Editor**. In the window that appears, edit the corresponding entry (Fig. 13.5—4) by clearing the corresponding check box in the "Titles" column. Then quit and start ATM Intellect Pro again.



Fig. 13.5—4 Control displaying captures

13.5.3 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 entry for the following setting from "0" to "1": HKLM\SOFTWARE\ITV\EventATM\LogEnable (Fig. 13.5—5). 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)
IDC	REG_SZ	IDCardUnit1
InstallPath	REG_SZ	C:\Program Files\EventATM\
IpAddress	REG_SZ	127.0.0.1
LogEnable	REG_SZ	1
TcpPort	REG_SZ	8888
TID	REG_SZ	386

Fig. 13.5—5 The LogEnable parameter