

AxxonSoft, Inc.

«Report System»

Web report system

User Guide

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1 Introduction

1.1 Purpose of document

'*Report System*' Web report system. *User guide* document contains information that is necessary for setting and further operation of *Intellect* software package report system and its vertical solutions. In the system working with reports is made through Web interface.

Note. At the moment of writing this document *Report System* allows creating the following reports:

1. in *POS-Intellect* software package;
2. in *Time and Attendance* application software;
3. *Queue length* reports;
4. *People counter detection*;
5. in *AUTO-Intellect* software package.

The structure of the document allows the user to skim over the provided information about *Report System* and select, according to degree of training, interesting parts for detailed study. Chapters in the guide are of information or reference content. They have their own internal structure.

The *Introduction* chapter is for general examination of the user with *Report System* system functionality and implementation features.

Recommendations that are necessary to user-administrator for *Report System* system installation are given in details in the *Requirements for Report System realization* and *Report System installation and removing* chapters of this guide.

Description of startup and shutdown of *Report System* system is given in *Report System startup and shutdown* chapter.

A brief excursus into system interface is given in *Report System interface* chapter.

Further in the *Report System administration* chapter there are step-by-step instructions for setting user private parameters and activation of required functionality. This information is useful both for system administrator and for operator who has rights to administrate system settings.

Information about using *Report System* functionality is given in the *Working with Report System* chapter.

1.2 Purpose of Report System

'*Report System*' Web report system is a site that is located in the local network or Internet according to requirements to security system that is performed on the basis of *Intellect* software package. Administration and working with this system is performed entirely through the Web interface.

Web interface of *Report System* allows accomplishing the following tasks:

1. Setting up the varied user access to POS reports and reports of the *Time and Attendance* module.
2. Setting up *Report System* operation in automatic mode.

Note. In Report System one can generate reports automatically on the schedule with subsequent saving report files on local computer and/or sending them by e-mail.

3. Setting up reports for POS events (setting up statuses of POS events and so on).

Note. Statuses of POS events are used for analyzing POS events while creating reports.

4. Creating and exporting general and detailed reports for POS events.
5. Creating and exporting general and detailed reports for time and attendance.
6. Viewing video archive from registration time of event that is selected in the report.
7. Viewing data from cash desk that correspond to selected POS event.
8. Giving a status to registered POS events.
9. Creating and exporting Load reports.
10. Creating and exporting reports by amount of people on observed object.
11. Face search by picture.

1.3 Components of Report System

The following components perform *Report System* realization:

1. Web server – computer that is supposed to be used for location of system site.
2. Clients – computers that are supposed to display Web interface of system.

In particular case Client and Web server of *Report System* can coincide. In other cases Web server should be available for Clients through network.

Installation of *Report System* is performed only on computer that is supposed to be used as Web server (see *Report System installation and removing* chapter).

Requirements for realization of Web server and Client are given in details in *Requirements for Report System realization* chapter.

2 Requirements for Report System realization

2.1 Web server of Report System

For Web server organization of *Report System* it is necessary to install it from distribution kit that consists only of ReportSystem.msi installation package.

Attention! For working with *Report System* it is strongly recommended to use Windows OS server platforms. This requirement is connected with limit of Microsoft Internet Information Services (IIS) server set in 10 simultaneous connections on any other Windows OS platforms.

Note. *Report System* Web server is compatible with the same versions of operating systems as the *Intellect* software package.

Before *Report System* installation it is necessary to make sure that the following components are installed on computer:

1. Microsoft.NET Framework 4 platform;
2. Set of Microsoft Internet Information Services (IIS) servers;
3. ASP.NET 4.5 module.

If these program products are not installed it is necessary to install them.

Note 1. Microsoft.NET Framework 4 platform is available for uploading at <http://www.microsoft.com/>.

Note 2. Set of IIS servers is distributed along with operating systems of Windows family and as their optional component. Installation of IIS servers set is performed in accordance with [vendor website](#).

Installation of ASP.NET 4.5 module which is submodule to the IIS set of servers is performed in accordance with the following [vendor website](#).

For correct creation of reports in *Report System* Web server should be connected by network with all servers of databases that are used in operation. At the moment these are SQL servers that store database of *Intellect* software package configuration and system itself and optionally SQL servers where *Time and Attendance* and/or *POS* reports databases are located. In special cases both Web server and SQL server can be located on one computer.

Corresponding *Intellect* video servers (registered in the database of the *Intellect* configuration connected while installation) must be started in order to display the event video archive in detailed reports.

If the Clients connection to the Web server is supposed to be via network it is necessary to make sure that the Web server has the static IP address. Moreover it must be available on the Internet if it is specified in the security system project.

2.2 Client of Report System

2.2.1 General requirements

For proper displaying on Web interface Client of *Face Intellect* software package the following conditions are necessary:

1. *Internet Explorer* browser of 8.0 version and later.

Attention! Use Internet Explorer 32-bit browser for Report System functioning in 64-bit operating system.

2. If it is supposed to view video archive of event from the report:
 - 2.1. Permission to use ActiveX components in browser.
 - 2.2. ActiveX *CamMonitor* set component.

Note. CamMonitor component is installed automatically with Intellect software package. If Intellect software package is not installed on the Client it's necessary to install this component separately.

2.2.2 Setting up security parameters in Internet Explorer browser

On default the use of ActiveX components is forbidden in *Internet Explorer*, that is why it's necessary to set extra security parameters.

For this do the following:

1. Execute the **Tools** → **Internet options** command in main menu of *Internet Explorer* browser (Figure 2.2—1).



Figure 2.2—1 Internet Options

2. In the **Internet options** dialog box go to the **Security** tab (Figure 2.2—2).

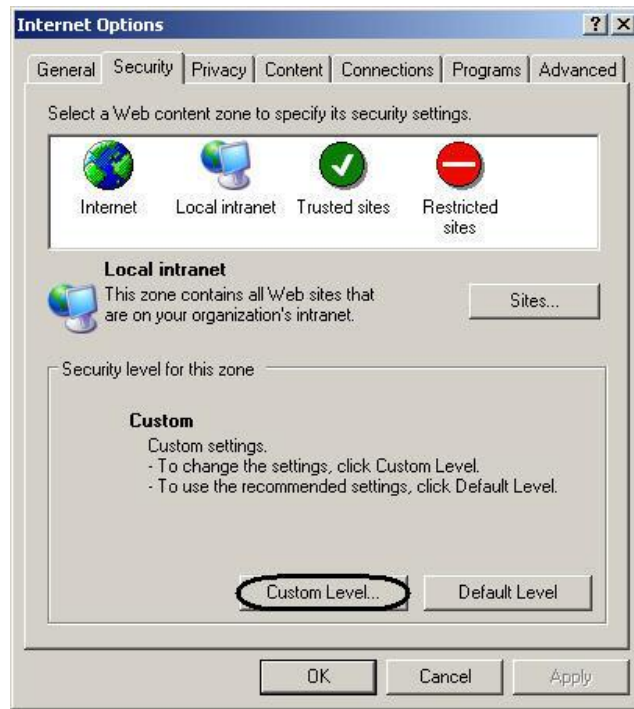


Figure 2.2—2 Selecting a Web content zone to specify its security settings

3. In selected zone of dialog box (selected on default) click **Custom level** (Figure 2.2—2).
4. In the **Security settings** dialog box execute the following settings (Figure 2.2—3):
 - 4.1. Set the **Script ActiveX controls marked safe for scripting** checkbox to the **Enable** position.
 - 4.2. Set the **Initialize and script ActiveX controls not marked as safe** checkbox to the **Enable** position.

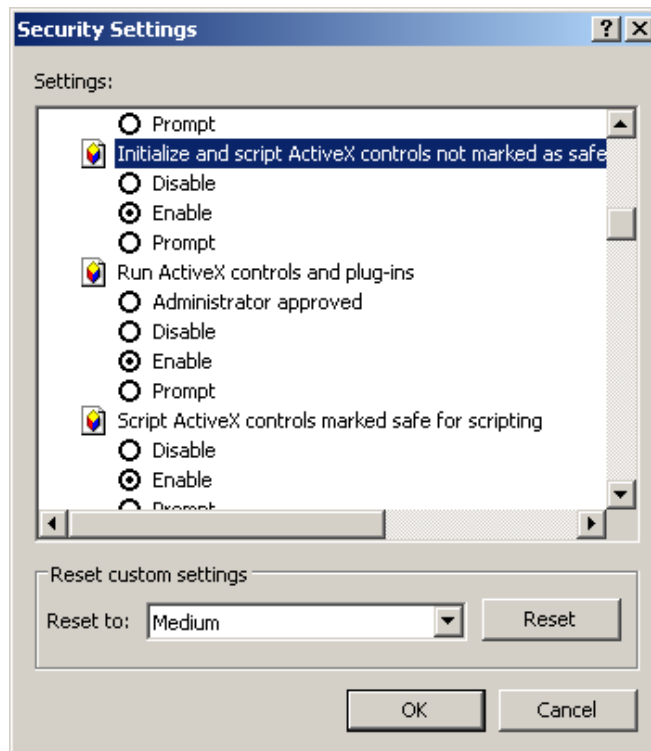


Figure 2.2—3 Security settings

5. Click **OK** in **Security settings**, and then in **Internet options**.
6. Restart browser.

Setting security parameters in Internet Explorer browser is completed.

3 Report System installation and removing

3.1 Installation

To install *Report System* do the following:

1. Start the ReportSystem.msi installation package.
2. In the language dialog window select the language from the list (Figure 3.1—1).

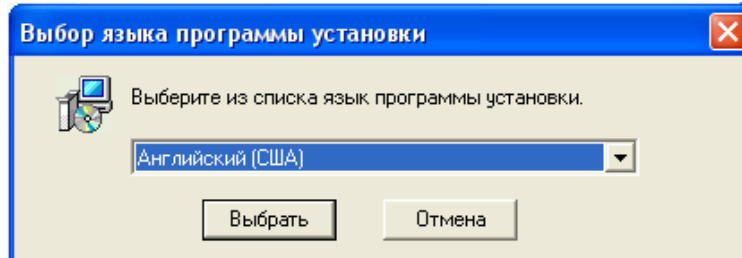


Figure 3.1—1 Choose language dialog box

3. Click **Next** in the welcome window of setup wizard (Figure 3.1—2).



Figure 3.1—2 Welcome of setup wizard

The dialog box of the License agreement is displayed.

4. To continue the installation one should accept the terms of the License agreement by setting the switch into **I accept the terms of the License agreement** position. Then click **Next** (Figure 3.1—3).



Figure 3.1—3 Dialog box with the license agreement

The **Select DB server** window is displayed.

5. From the **Select DB Server from the drop-down list** select SQL server where the database of the Intellect software package configuration is located. The database of *Report System* system will be created on the same SQL server (Figure 3.1—4).

Note. Later it's possible to move the database of Report System system to another SQL server. The changes should be made in C:\Program Files\Intellect\Modules\Wt2\Web.config file by correcting the following connection string:

<add

name="ReportSystemConnectionString"

connectionString="Password=ITV;Persist Security Info=True;User ID=sa;Initial Catalog=ReportSystem;Data Source=(local)\SQLEXPRESS;"

providerName="System.Data.SqlClient" />.

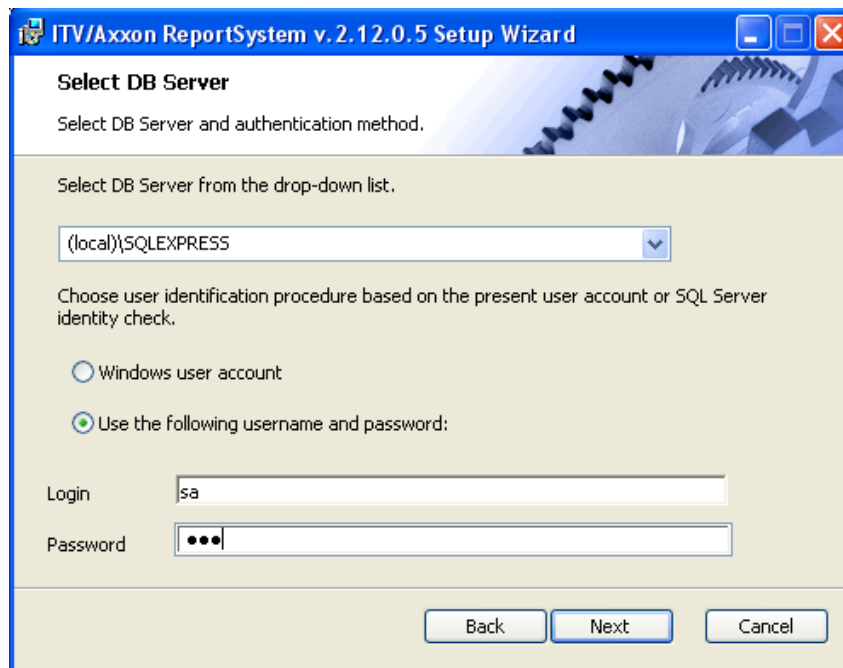


Figure 3.1—4 Selection of SQL-server with the database of the Intellect software package configuration

6. Set the authentication method that will be used by the *Report System* system while connecting to SQL server with the database of the Intellect software package configuration (Figure 3.1—4).

Connecting by the **Windows Account information** method there is a confirmation of user identity by using current account information of Windows OS. Method of using specified user name and password allows confirming SQL server authenticity.

Note 1.

Windows Account information method is used in the following cases:

1. *When SQL server where it's necessary to create Report System system database and system itself are installed on one computer.*
2. *When SQL server and Report System system are installed on different computers connected by TCP/IP and located in one network domain. An account for user that is authorized in Windows OS on computer where Report System is installed should be created in Windows OS on computer with installed SQL server.*

Note 2.

Method of using login and password is for the following cases:

1. *When SQL server where it's necessary to create Report System system database and system itself are installed on one computer.*
2. *When SQL server and Report System system are installed on different computers connected by TCP/IP and located in one network domain. At the same time specified user name (login) and password should be the same as user name (login) and password that are used to SQL server access.*

7. To continue the installation process click **Next**.

The window (Figure 3.1—5) where it is necessary to set connection string of *Report System* to the database of Time and attendance module, to *POS Intellect* database and/or *AUTO Intellect* database. Connected databases will be the data source when creating reports.

Note. If the POS Intellect software and the AUTO Intellect software are installed after the Report System installation, the connection of Report System database to the corresponding module is to be performed. Launch the Repairing mode of Report System and enter the corresponding connection strings (see Repairing section).

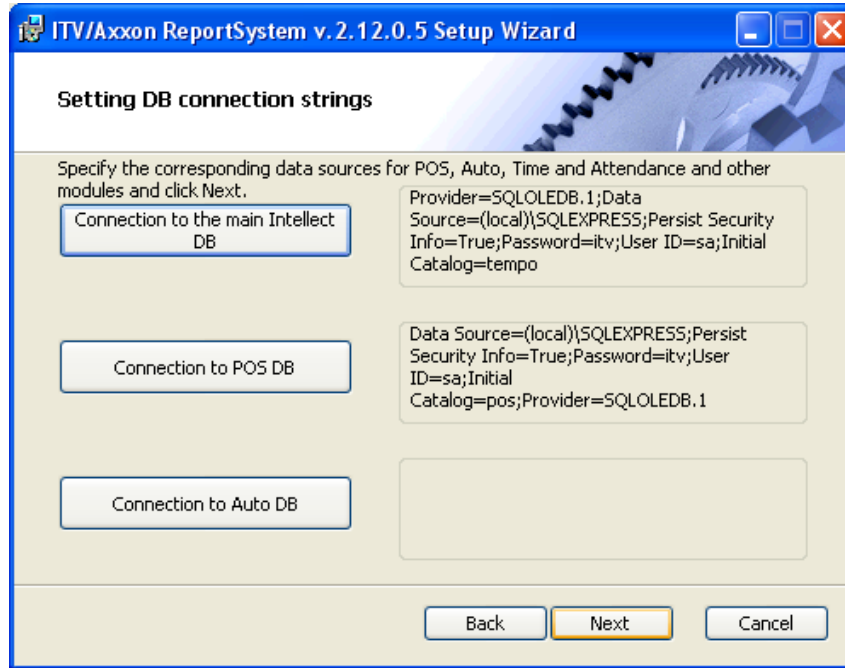


Figure 3.1—5 Setting DB connection strings window

8. To set connection string to the database of *Time and Attendance* module do the following:
 - 8.1. Click **Connection to the main Intellect DB** (Figure 3.1—5).
 - 8.2. As a result the **Data link properties** dialog box is displayed (Figure 3.1—6).

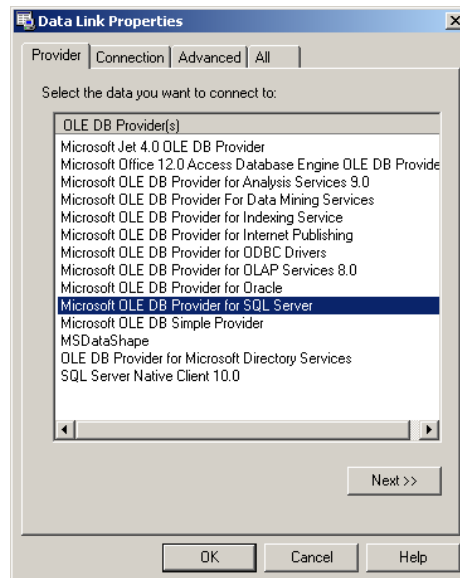


Figure 3.1—6 Data provider selection

- 8.3. In the **Data provider** tab select **Microsoft OLE DB Provider for SQL Server**. Click **Next** (Figure 3.1—6).

8.4. As a result there will be an automatic switch to **Connection** (Figure 3.1—7).

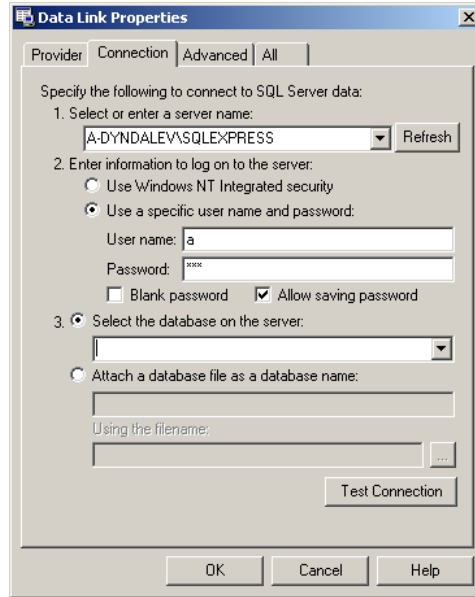


Figure 3.1—7 Setting connection to database

8.5. In **1. Select or enter a server name** line select from the list or enter manually the name of SQL server where database of *Time and Attendance* module is stored (Figure 3.1—7).

8.6. To log on SQL server it is necessary to set authentication parameters. For this set switch into **Use a specific user name and password** position (Figure 3.1—7). In the **User name** and **Password** fields enter username (login) and password in order to connect to SQL server. Set the **Allow saving password** checkbox.

8.7. To check connection to SQL server click **Test connection** (Figure 3.1—7).

In case of successful connection the window with the **Test connection succeeded** message will be displayed (Figure 3.1—8).

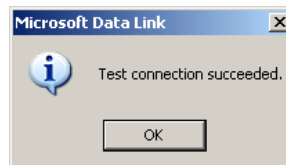


Figure 3.1—8 Message about successful connection to SQL server

It's necessary to click **OK** in the window of message and as a result the window will be shut down automatically (Figure 3.1—8).

If the name of SQL server and/or authentication parameters that are used in order to connect to it were set wrong then the corresponding message is displayed (Figure 3.1—9).

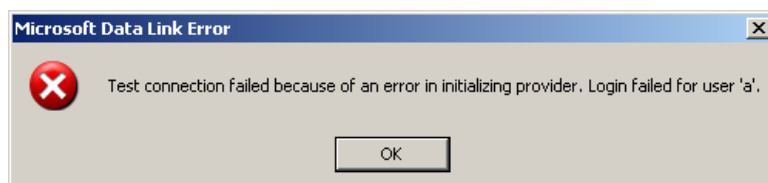


Figure 3.1—9 Example of message about impossibility of connection to SQL server

To shut down the window with the message, click **OK** (Figure 3.1—9). Then correct the data and check connection to SQL server once again.

8.8. If check of connection to SQL server is successful, select from the **Select database on server** list the name of connected database.

Note. Database of the Time and Attendance module coincides with the database of Intellect configuration (name by default is intellect).

8.9. Click **OK** in the **Data connection properties** dialog box. As a result of this operation the dialog box will shut down.

Setting connection string to the database of *Time and Attendance* module is completed.

9. To set connection string to *POS* database do the following:

9.1. Click **Connection to POS DB** (Figure 3.1—10).

9.2. As a result of this operation the **Data connection properties** dialog box is displayed.

9.3. Repeat 7.3-7.9 steps but connect *POS* database (name by default is *pos*).

Setting connection string to *POS* database is completed.

10. To set connection string to *AUTO* database do the following:

10.1. Click **Connection to Auto DB** (Figure 3.1—10).

10.2. As a result of this operation the **Data connection properties** dialog box is displayed.

10.3. Repeat 7.3-7.9 steps but connect *AUTO* database (name by default is *traffic_db*).

Connection strings to databases are displayed in the **Setting DB connection strings** dialog box (Figure 3.1—10).

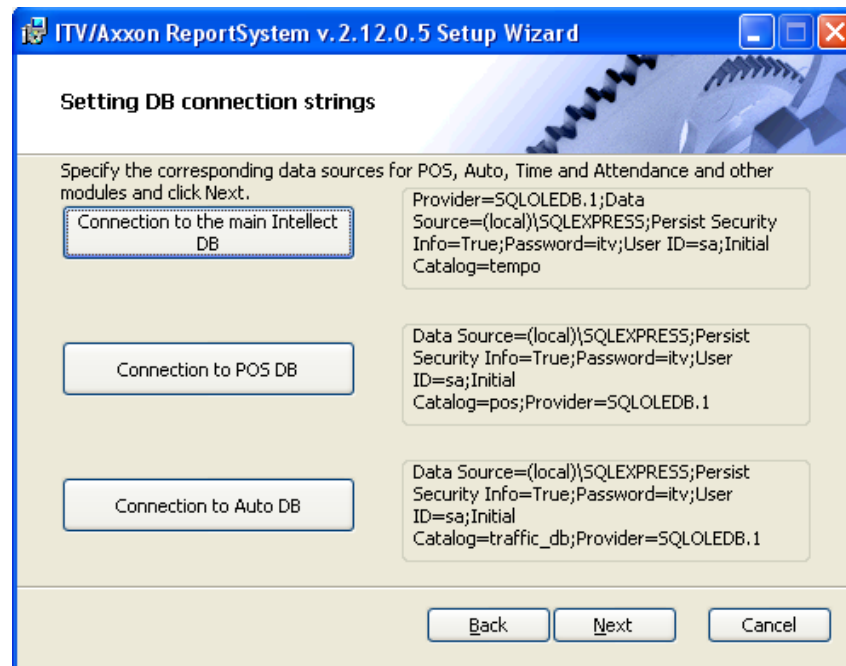


Figure 3.1—10 Display of connection strings to databases

11. Click **Next**. If DB connection strings has not been set then the **DB connection strings need setting** dialog box will be displayed as a result. (Figure 3.1—11).

Note. If DB connection strings has been set then installation will start as a result (see point 10).

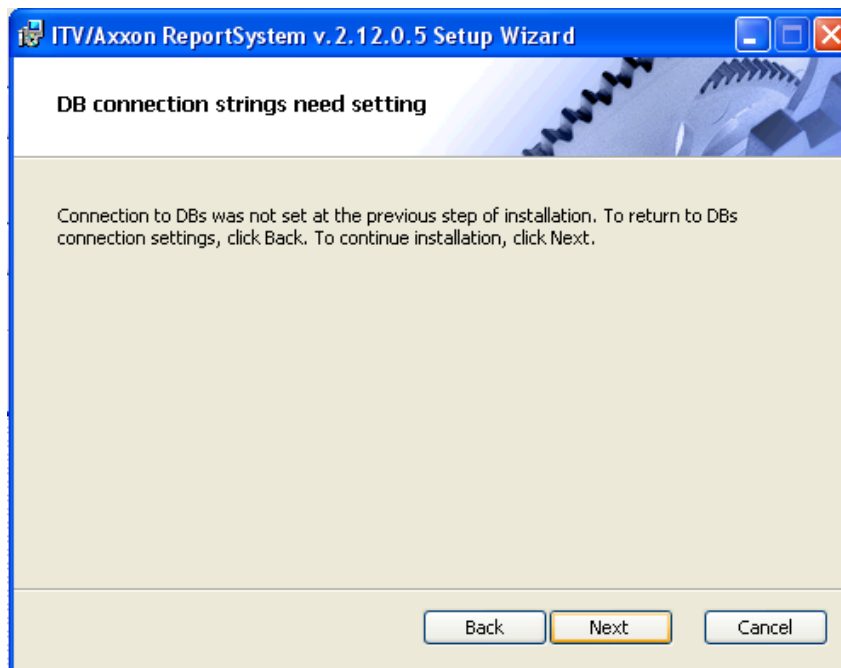


Figure 3.1—11 Information window that warns DB connection strings need setting

This dialog box warns about failure of connection to DB that doesn't guarantee the operation of the system.

Note. If there was installation without setting connection to DB then you can set the connection to DB using C:\Program Files\Интеллект\Modules\Wt2\Web.config file and adding connection strings. Examples of connection strings are given below:

1. `<add name="IntellectDB" connectionString="Provider=SQLOLEDB.1;Password=itv;Persist Security Info=True;User ID=sa;Initial Catalog=intellect;Data Source=WS2\SQLEXPRESS"/>`
2. `<add name="PosDB" connectionString="Server=. \SQLEXPRESS;Integrated Security=SSPI;Persist Security Info=False;Database=pos;Provider=SQLOLEDB.1"/>`
3. `<add name="ReportSystemConnectionString" connectionString="Password=itv;Persist Security Info=True;User ID=sa;Initial Catalog=ReportSystem;Data Source=(local)\SQLEXPRESS;"/>`

12. To continue installation, click **Next**. As a result of this operation installation starts (Figure 3.1—12).

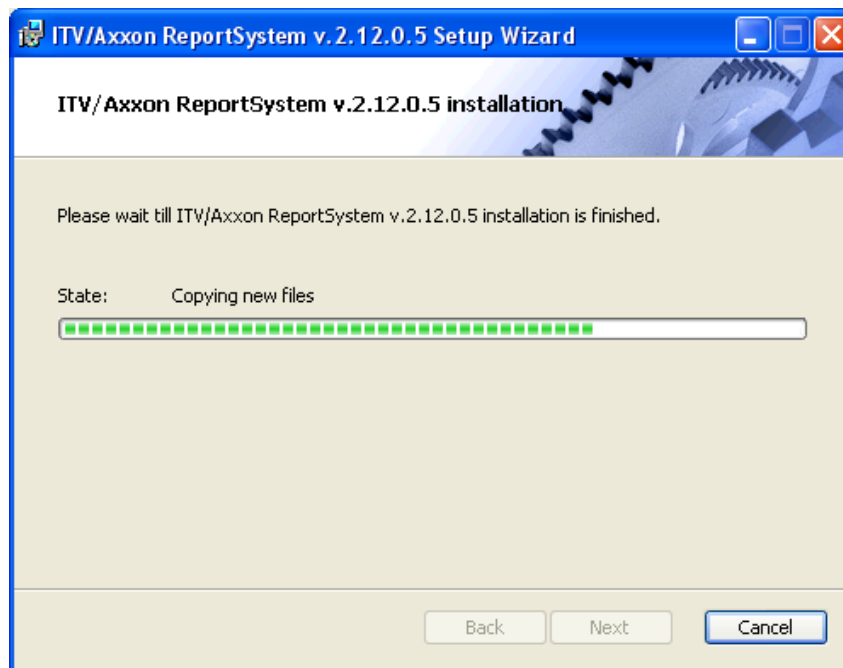


Figure 3.1—12 Report System installation

Message that *Report System* installation is finished is displayed in a new dialog box (Figure 3.1—13).

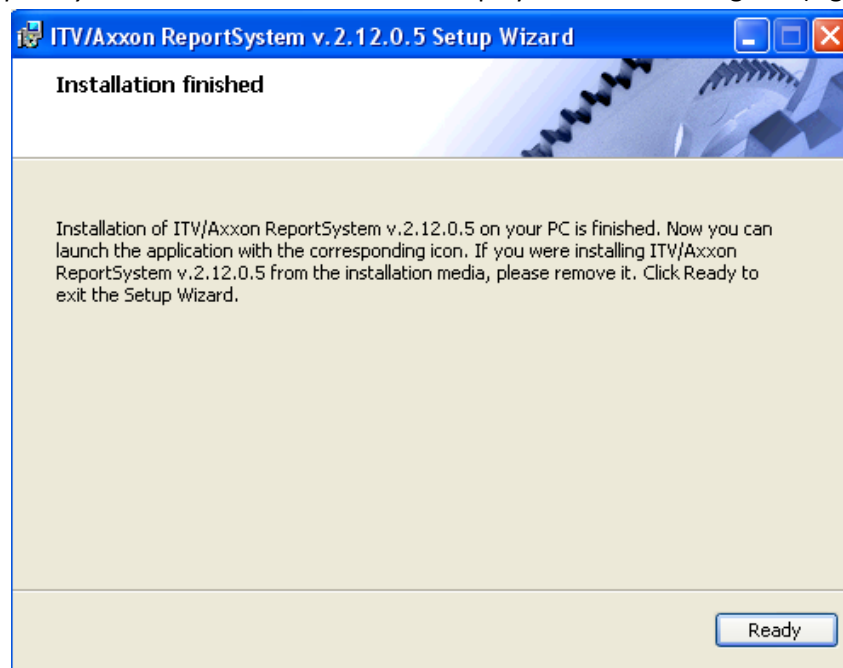


Figure 3.1—13 Message that installation is finished

Report System installation is finished and system is installed in *C:\Program Files\Интеллект\Modules\Wt2* folder.

Note. If there is no folder it will be created automatically.

Attention! After *Report System* installation it's necessary to restart *Intellect* software package.

3.2 Repairing

Repairing mode is designed for reinstallation of all components of *Report System*.

To start repairing mode it's necessary to start *Report System* installation once again without removing previous version of system.

To repair *Report System* необходимо do the following:

1. Start the ReportSystem.msi installation package.

The dialog box of action selection is displayed (Figure 3.2—1).

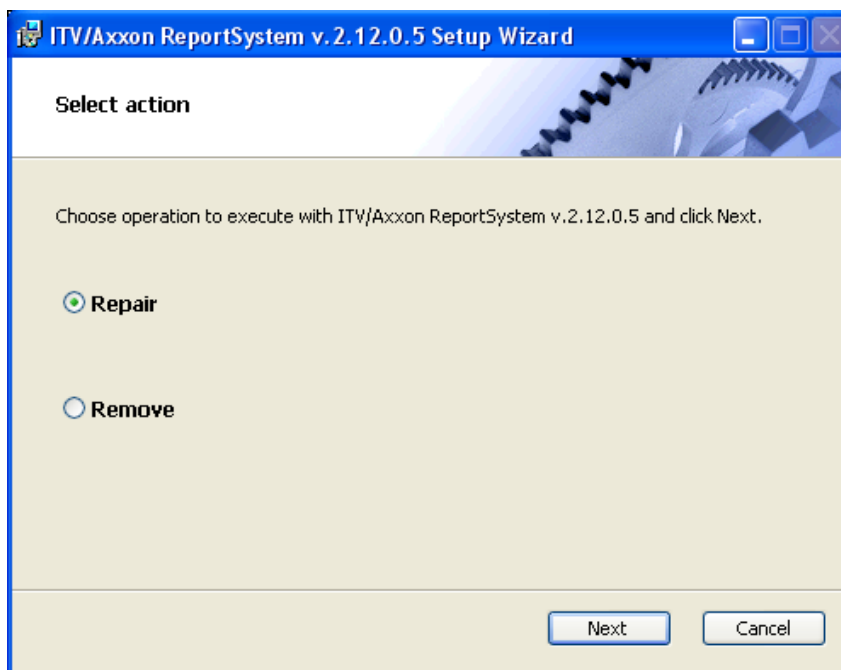


Figure 3.2—1 The dialog box of action selection

2. Select **Repair** type and click **Next** (Figure 3.2—1).

The **Selection DB server** box is displayed.

3. In this and following boxes repeat 4-9 steps of *Installation* part.

The dialog box of *Report System* repairing is displayed (Figure 3.2—2).

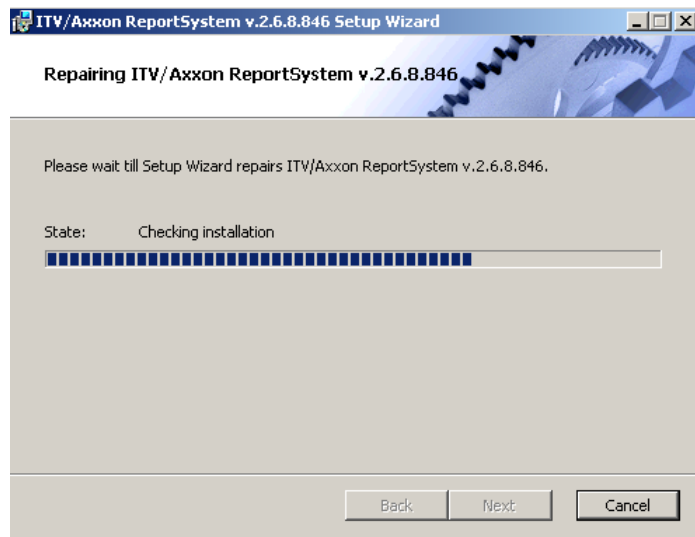


Figure 3.2—2 The dialog box of repairing

When repairing is finished the dialog box, where it's necessary to click **Ready**, is displayed.

Report System repairing is completed.

Attention! After Report System repairing it's necessary to restart Intellect software package.

3.3 Updating

Updating mode is used for installation of *Report System* new version without removing the previous one.

To update *Report System* do the following:

1. Start the ReportSystem.msi installation package.

The dialog box of *Report System* updating is displayed (Figure 3.3—1).

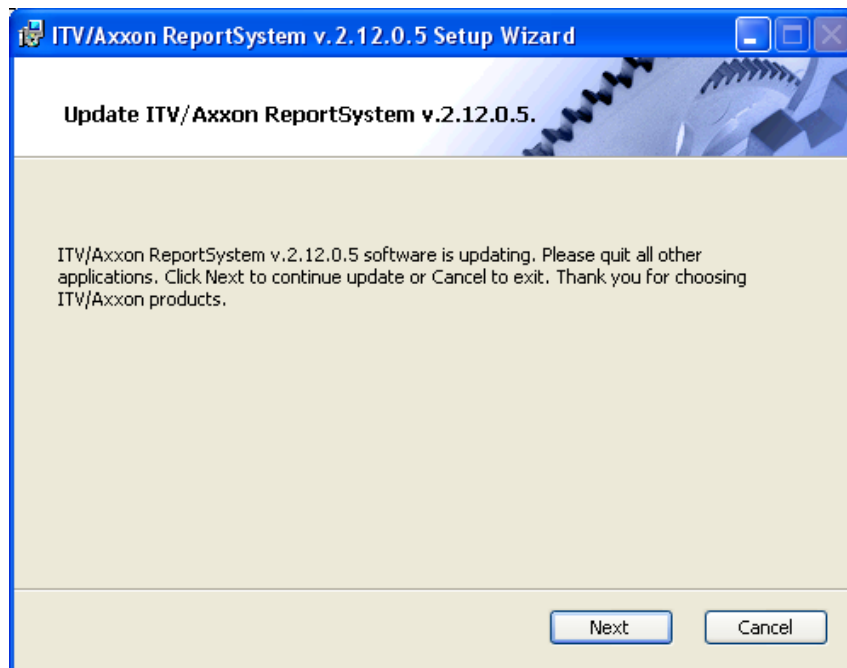


Figure 3.3—1 The dialog box of updating

2. Click **Next** (Figure 3.3—1).

The **Selection DB server** box is displayed.

3. Repeat steps 4 and 5 of *Installation* part.

The dialog box of *Report System* updating is displayed (Figure 3.3—2).

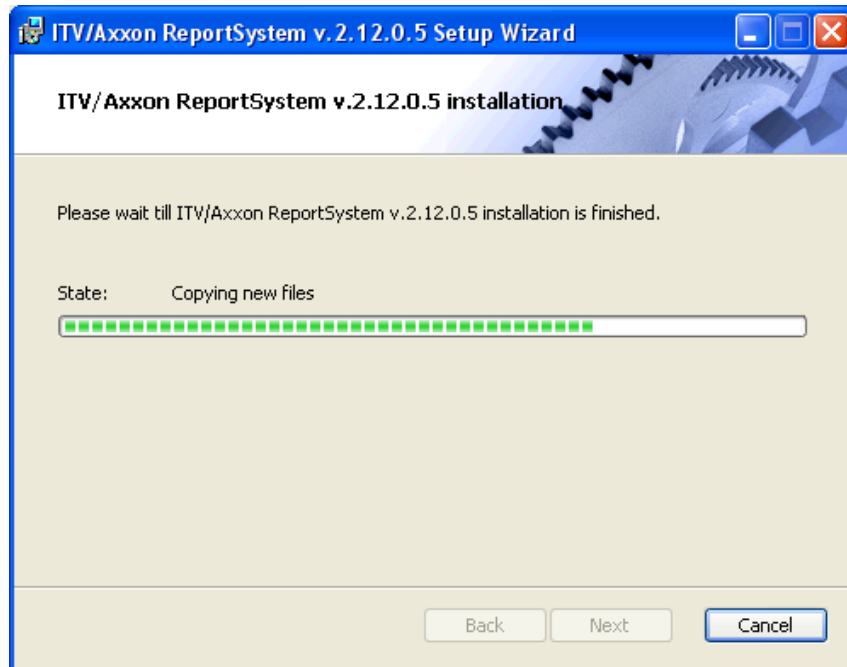


Figure 3.3—2 The dialog box of updating process

When updating is finished the dialog box, where it's necessary to click **Ready**, is displayed.

Report System updating is completed.

Attention! After *Report System* updating it's necessary to restart *Intellect* software package.

3.4 Removing

Report System installation wizard also operates in removing mode. This mode is necessary when you need to remove all *Report System* components on your Computer.

Starting removal is performed by using one of the following ways:

1. Using *Add or Remove Programs* application of Windows OS control panel;
2. Using ReportSystem.msi installation package.

As a result of one of these actions the dialog box of action selection is displayed (Figure 3.4—1).

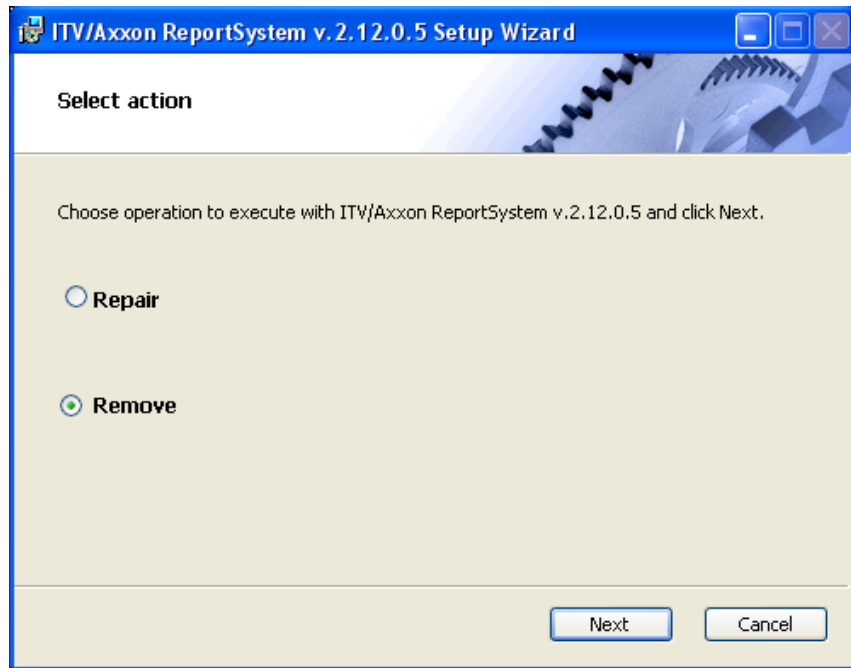


Figure 3.4—1 The dialog box of action selection

Select **Remove** type and click **Next** (Figure 3.4—1).

The dialog box of removing process of *Report System* will be displayed (Figure 3.4—2).

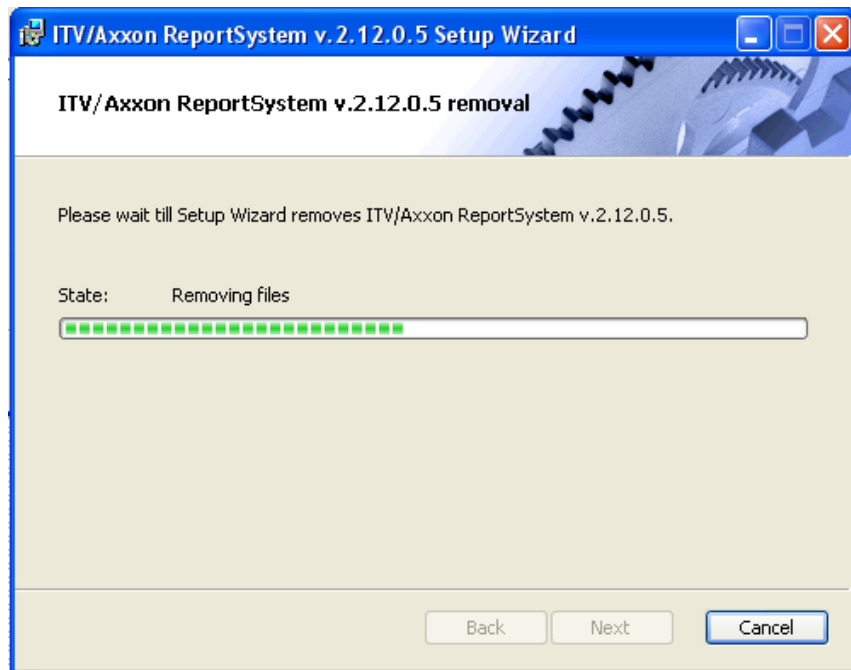


Figure 3.4—2 The dialog box of removing process

When removing is finished the dialog box, where it's necessary to click **Ready**, is displayed.

Report System removing is completed.

4 Report System licensing

4.1 Activation key

Report System functionality is restricted by the activation key that is bundled with the *Intellect* installation kit.

If the *Report System* is extended (for example if it is necessary to add some types of reports) then it is necessary to replace the previous activation key with a new one that will restrict the updated system functionality.

4.2 Activation of Report System functionality

Attention! *The activation of Report System functionality is possible only if there is the corresponding activation key.*

To activate *Report System* functionality do the following:

1. Start *Intellect*.
2. Create the **Web report system** object on the basis of the **Computer** object on the **Hardware** tab of the **System settings** dialog box (Figure 4.2—1).



Figure 4.2—1 Web report system

3. Create the objects (**Time and Attendance reports, POS reports, Queue-length detection, People counter detection, AUTO reports, General reports**) on the basis of the **Web report system** object corresponding to the types of reports specified in the activation key (Figure 4.2—2).

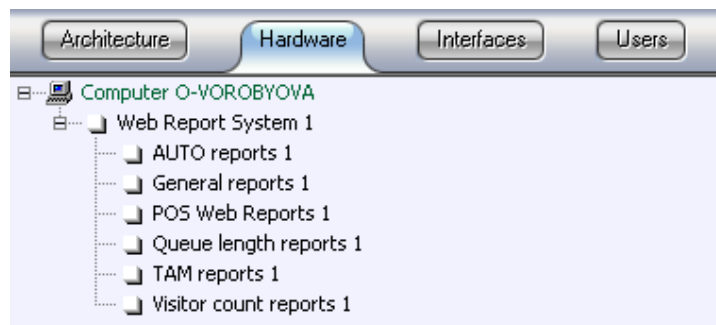


Figure 4.2—2 Time and Attendance reports, POS reports

Note. If it is necessary to activate the **Search by picture** functional module that corresponds to Face Intellect software package then it is necessary to create and setup the corresponding object on the basis of the **Web report system** (see Face Intellect software package. User Guide).

Activation of *Report System* functionality is completed.

5 Report System startup and shutdown

5.1 Ways of starting

Starting of *Report System* is carried out in one of two ways:

1. If the Client coincides with the Web server – through the Start menu of Windows OS: Start ⇒ All Programs ⇒ Intellect ⇒ Reports system;
2. On any Client – through the connection string of the browser: http://< Web server IP address>:8081/Reports.

As a result of one of these actions *Report System* authorization page is displayed (Figure 5.1—1).

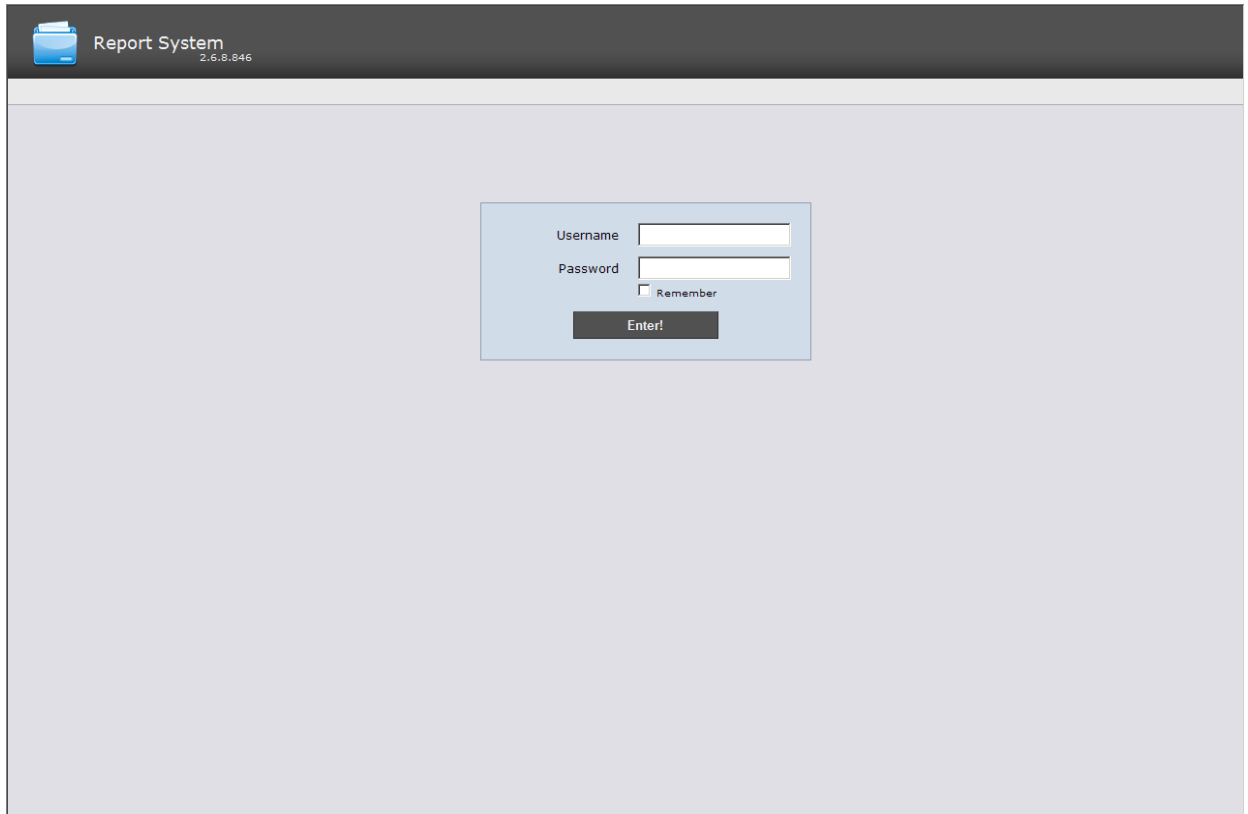


Figure 5.1—1 Report System authorization page

5.2 Authorization

For *Report System* authorization do the following:

1. Start *Report System* in one of the available ways (see *Ways of starting*).
2. Type the username, password (Figure 5.2—1).

Note. Initial entry to *Report System* is under *rs* user who has administrative rights. In the **Username** and **Password** fields one should type *rs*. Further the administrator has to set the system for a multiuser mode (for more details see *Set up the roles and users*).

Username

Password

Remember

Figure 5.2—1 Authorization in Report System

3. Set the **Remember** checkbox (Figure 5.2—1) if the automatic authorization in Report System (with parameters specified in the step 2) is required.
4. Click **Enter** (Figure 5.1—1).

As a result one goes on the *Report System* document page (Figure 5.2—2).

Note. Interface of the document page is described in the *Report System interface* chapter.

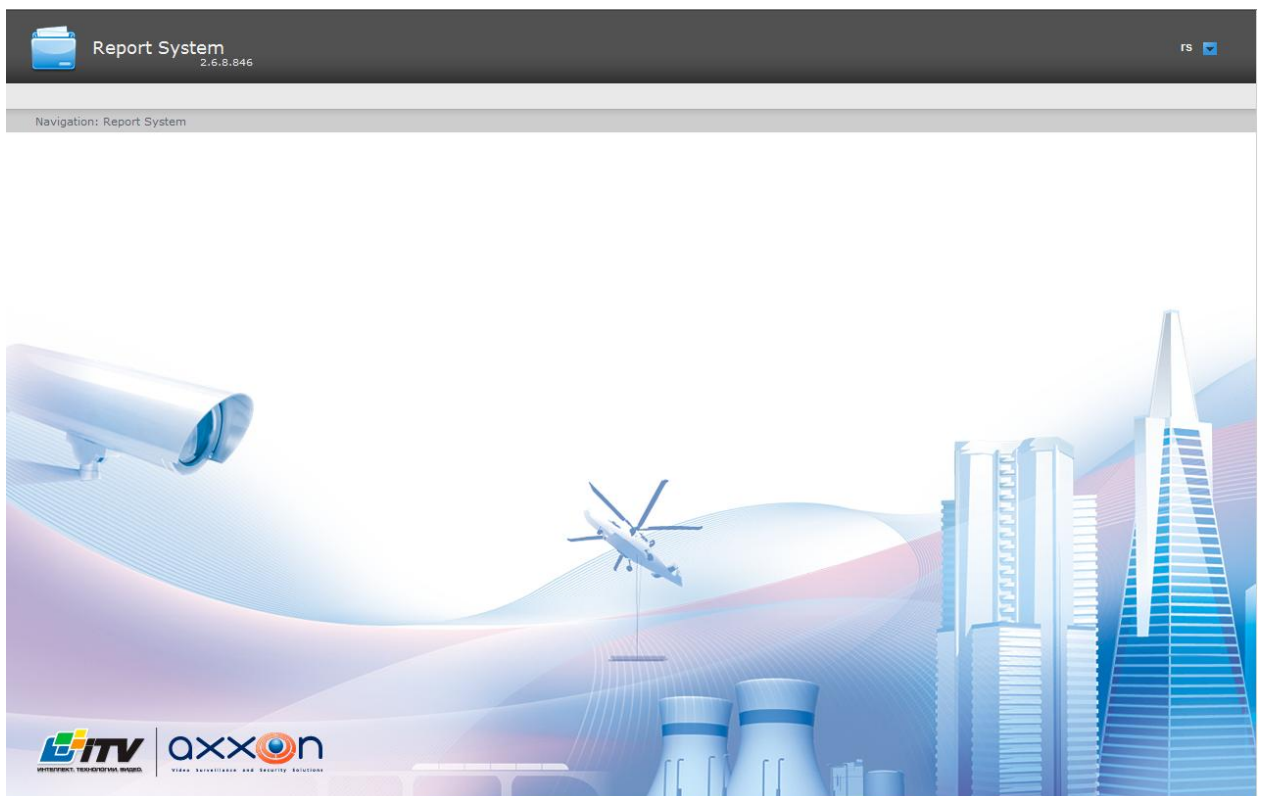


Figure 5.2—2 Report System document page


5.3 Shutdown

To shutdown *Report System* close the window in the browser.

5.4 User switching

One can switch *Report System* users fast.

For this do the following:

1. In the right upper corner of the Web interface hover cursor over the current username or over  icon (Figure 5.4—1).

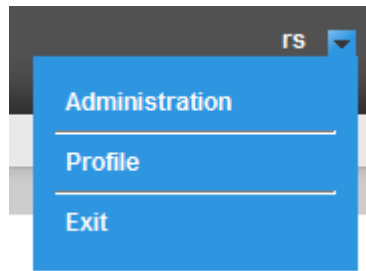


Figure 5.4—1 Exit Report System

2. In the context menu select the **Exit** item (Figure 5.4—1).
3. *Report System* authorization box is displayed. Type the username under which one should enter the system, password and click **Enter** (see the Authorization chapter).

User switching is completed.


6 Report System interface

Report System interface consists of the following elements:

1. context menu;
2. page of documents;
3. administration page;
4. user profile page.

6.1 Context menu

Report System context menu is available both on the page of documents and on the administration page.

In order to display the context menu hover cursor over the current username in the right upper corner or over  icon (Figure 6.1—1).

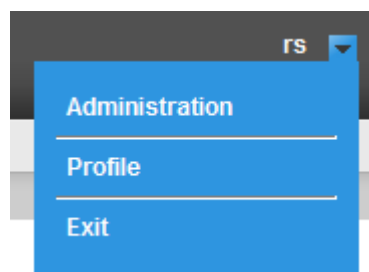


Figure 6.1—1 Context menu

The following operations are available from the context menu:

1. Switch to the administration page – the **Administration** item is used;
2. Switch to the user profile page – the **Profile** item is used;
3. Switch to the authorization page – the **Exit** item is used.

6.2 Page of documents

Page of documents is displayed automatically after the authorization in *Report System*.

Besides the context menu the reports menu is also displayed on the page of documents (Figure 6.2—1).

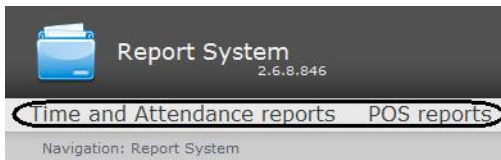


Figure 6.2—1 Reports menu

Note. If there are no operation rights for Time and Attendance reports and/or POS reports then the corresponding items of the reports menu (POS reports, Time and Attendance reports) are not displayed.

6.3 Administration page

Switch to the *Report System* administration page (Figure 6.3—2) is carried out through the context menu by selecting the **Administration** item (Figure 6.3—1).

Note. For some users this item can not be displayed (it depends on the availability of the administration rights).

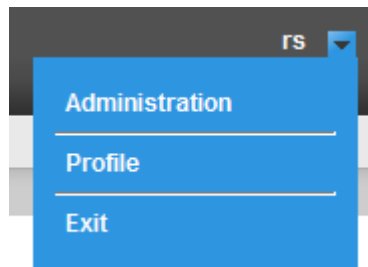


Figure 6.3—1 Switch to the Report System administration

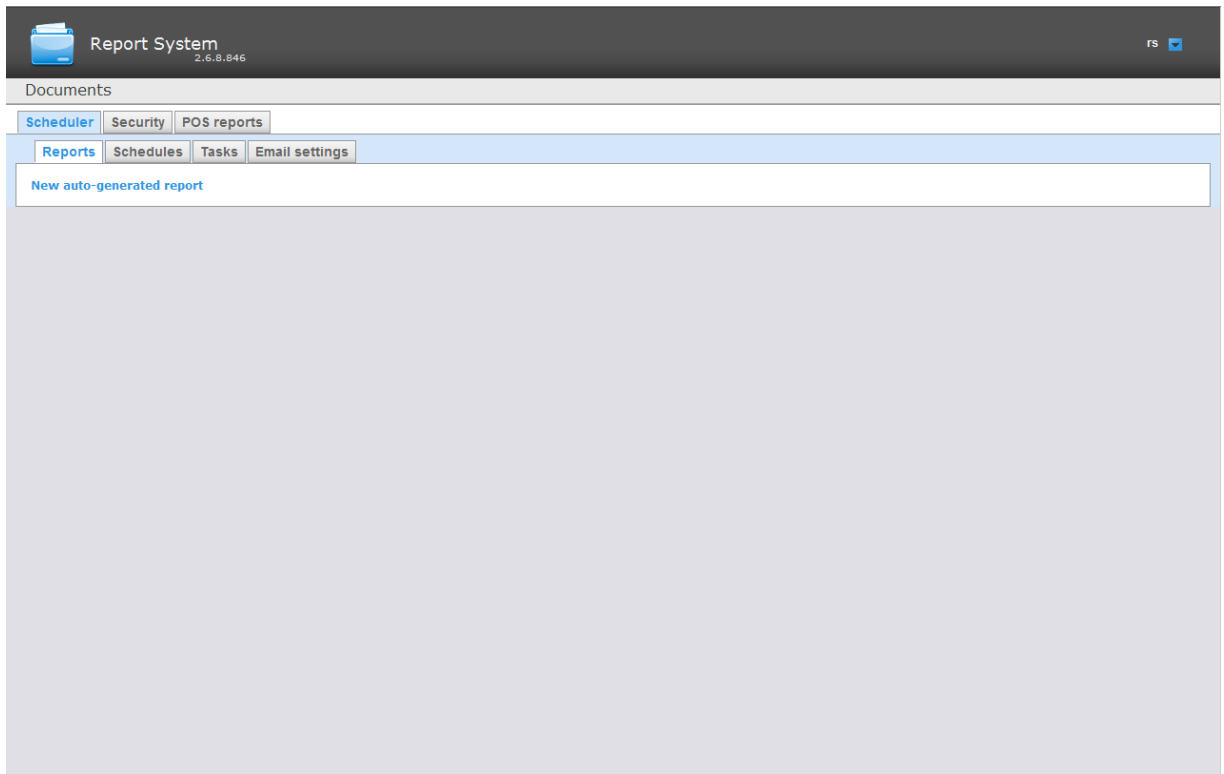


Figure 6.3—2 Report System administration page

To return to the documents page click the **Documents** link (Figure 6.3—3).

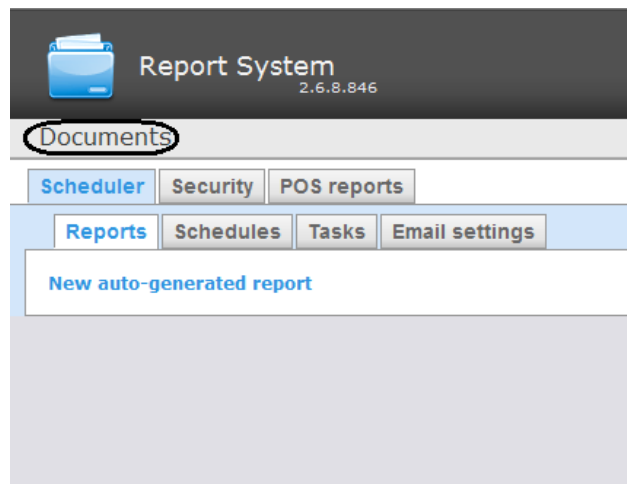


Figure 6.3—3 Returning to the documents page

6.4 User profile page

Changing the interface language of *Report System* is performed in the user profile page (Figure 6.4—1).



Figure 6.4—1 User profile page

Switch to the *Report System* user profile page (Figure 6.3—2) is carried out through the context menu by selecting the **Profile** item (Figure 6.4—2).

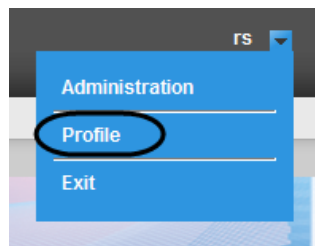


Figure 6.4—2 Switch to the Report System profile

6.5 Change the Report System interface language

To change the interface language, do the following:

1. Go to the user profile page (Figure 6.5—1).

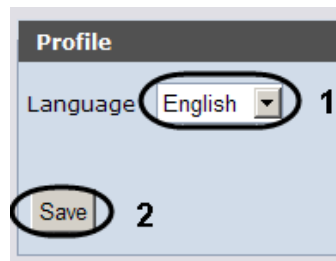


Figure 6.5—1 Change the interface language

2. From the **Language** drop-down list select the requested interface language (Figure 6.5—1, **1**).
3. Click **Save** (Figure 6.5—1, **2**).

Changing the interface language is completed.

7 Report System administration

7.1 Set up the roles and users

In *Report System* one role and one user are registered by default. They are **Administrators** and **rs** accordingly. They can not be removed.

Administrators have rights to control all the components of Report System but they can not work with the reports. In order to register an operator with individual rights one should create a new user and a new role with these rights.

Note. New users are created in Report System automatically after their registration in Intellect software package (see the Peculiarities of the user registration in Intellect software package chapter).

Setting up the roles and users is carried out in the **Security** tab on the administration page.

Attention! It is highly recommended to give the administrator rights to the unique user and then deprive these rights of the standard rs user.

7.1.1 Set up the roles

Setting up the roles is carried out in the **Role > operations** tab.

The following actions with roles are available:

1. Role registration with assigning the operations available for this role;
2. Role editing;
3. Role removing.

7.1.1.1 Role registration

In order to register a new role in Report System do the following:

1. Go to the **Role > operations** tab (Figure 7.1—1).

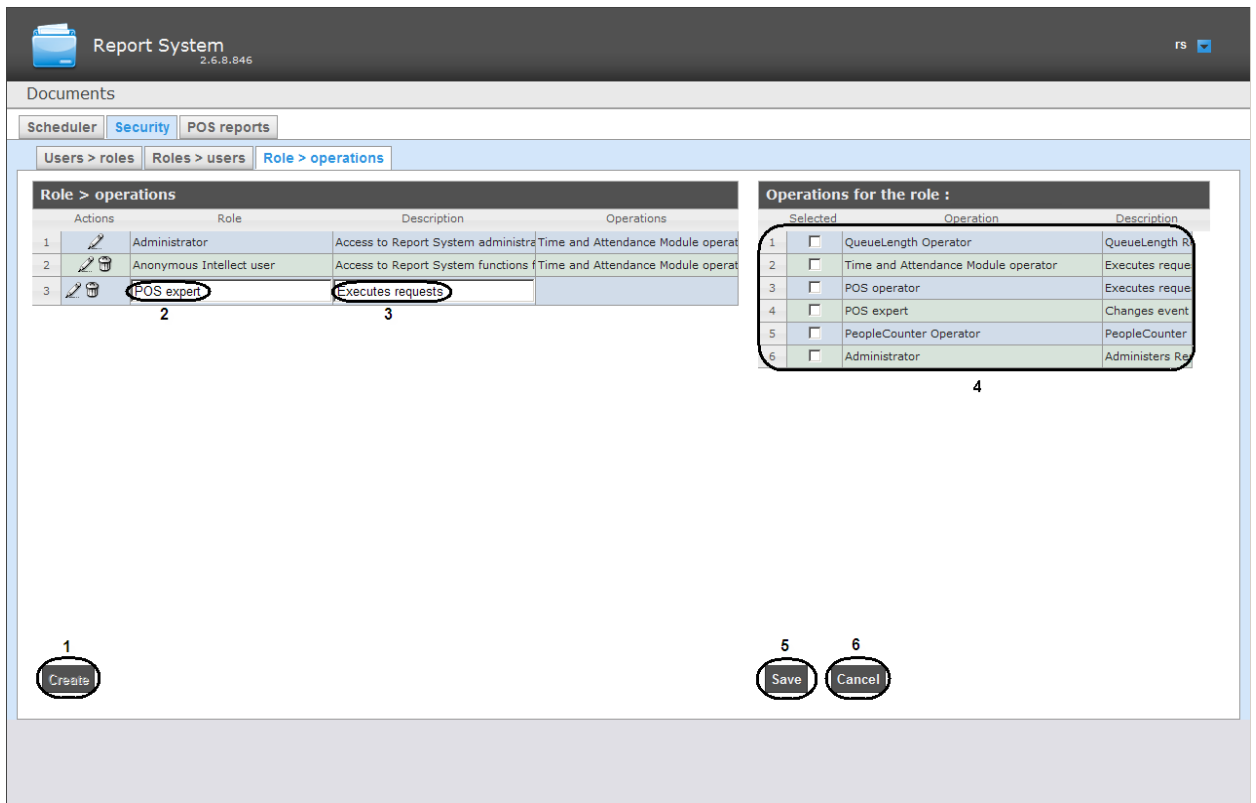


Figure 7.1—1 Role registration

2. Click **Create** (Figure 7.1—1, 1).
3. As a result a new line will be added to the **Role > operations** table. Fill in its fields:
 - 3.1. In the **Role** field type the name of a new role (Figure 7.1—1, 2).
 - 3.2. In the **Description** field type a brief description of the operations that will be available to the users with a new role (Figure 7.1—1, 3).

Note. This field is optional for filling in.

4. In the **Operations for the role** table (Figure 7.1—1, 4) in the **Selected** column set checkboxes for those operations that should be solved by users with a new role.

*Note. It is recommended to study the description of operations beforehand in the **Description** column of the same table.*

5. In order to register a role click **Save** (Figure 7.1—1, 5).

*Note. In order to cancel the registration of a new role click **Cancel** (Figure 7.1—1, 6).*

Role registration in *Report System* is completed.

7.1.1.2 Role editing

In order to edit a new role do the following:

1. Go to the **Role > operations** tab (
2. Figure 7.1—2).

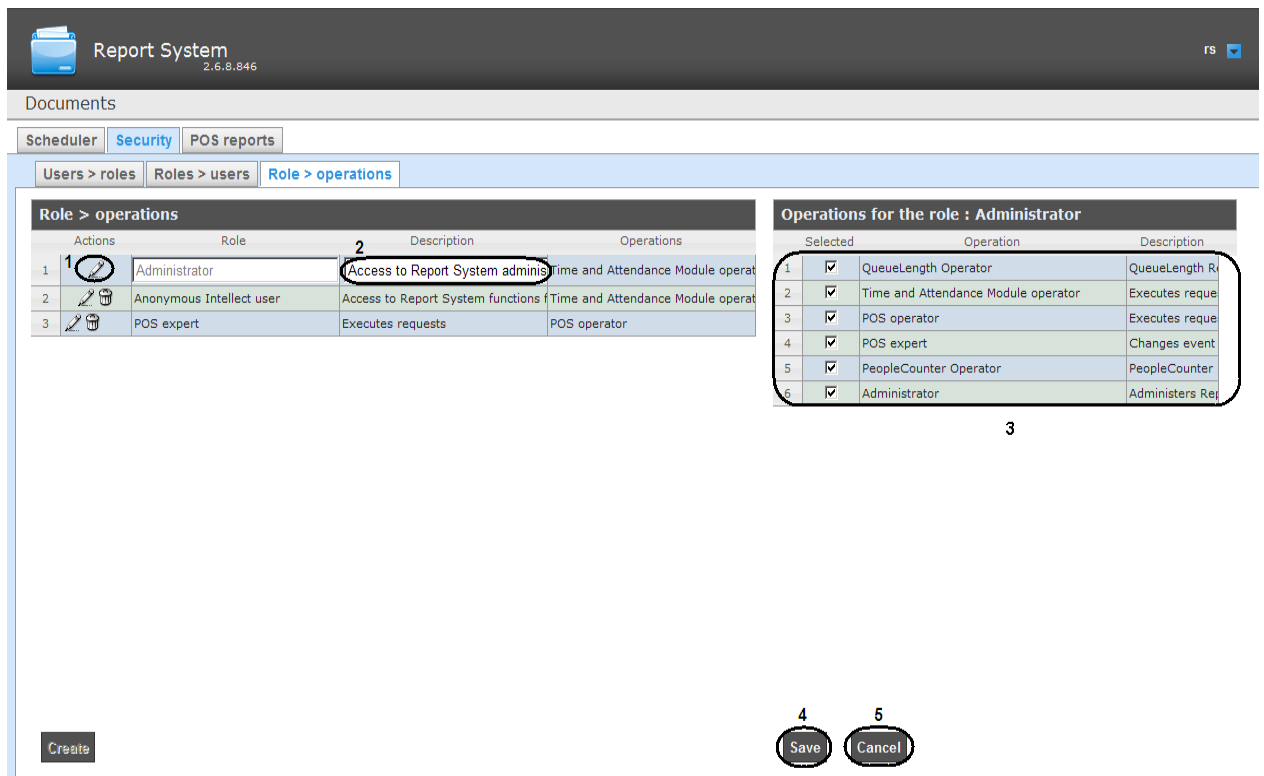


Figure 7.1—2 Role editing

3. For the required role click button in the **Actions** column of the **Role > operations** table (Figure 7.1—2, 1).
4. As a result one can edit some role parameters. For example:
 - 4.1. In the **Description** field (Figure 7.1—2, 2) one can edit a brief description of operations that will be available for users with this role.
 - 4.2. In the **Operations for the role** table (Figure 7.1—2, 3) in the **Selected** column one can edit the list of operations that should be solved by users with this role by setting or deselecting the corresponding checkboxes.
5. In order to save the changes in role parameters click **Save** (Figure 7.1—2, 4).

Note. In order to cancel the changes in the role click Cancel (Figure 7.1—2, 5).

Role editing is completed.

7.1.1.3 Role removing

In order to remove the role, do the following:

1. Go to the **Role > operations** tab (Figure 7.1—3).

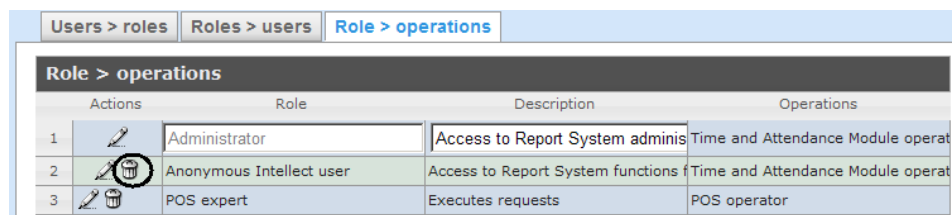



Figure 7.1—3 Role removing

2. For the required role click  button in the **Actions** column of the **Role > operations** table (Figure 7.1—3).
3. In the appeared box confirm the role removing by clicking **OK** (Figure 7.1—4).

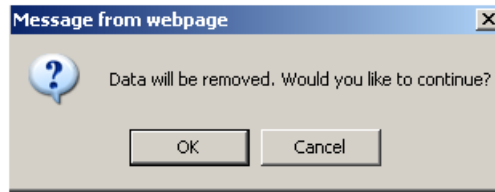


Figure 7.1—4 Confirm the role removing

Role removing is completed.

7.1.2 Peculiarities of the user registration in Intellect software package

The algorithm of user registration in *Intellect* software package is given in details in *Intellect software package: Administrator's Guide*.

Registering the user in *Intellect* software package one should take into account the following peculiarities:

1. In Report System the username is the user login that is set while its adding to the user rights in *Intellect* software package.
2. The same rules as for the login in Windows OS are applied to the username (and login).

7.1.3 Set up the correspondence between the roles and users

Setting up the correspondence between the roles and users can be carried out in two ways:

1. If the roles are assigned to the user then the **Users > roles** tab is used.
2. If the users are added to the role then the **Roles > users** tab is used.

7.1.3.1 Assigning the roles to the user

In order to assign the roles to the user do the following:

1. Go to the **Users > roles** tab (Figure 7.1—5).

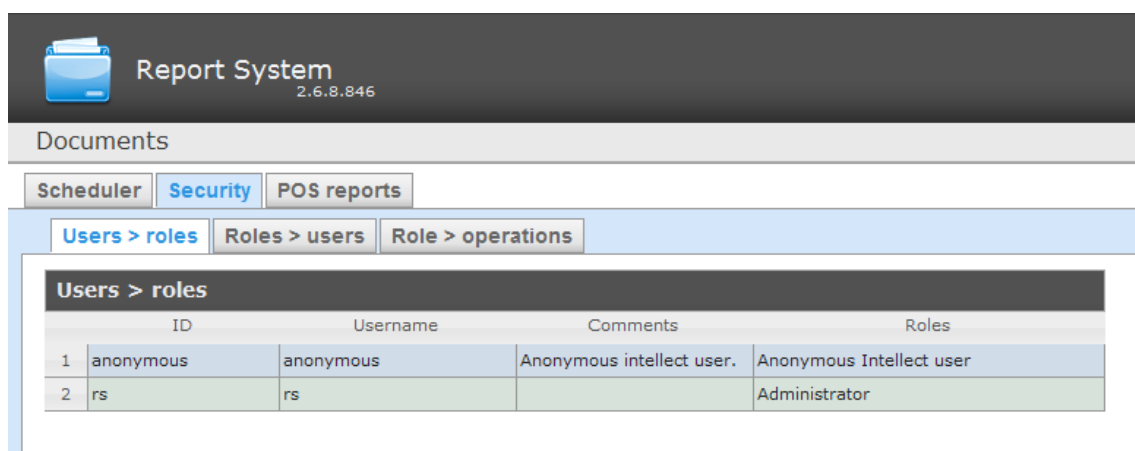


Figure 7.1—5 The Users > roles tab

2. Left-click the required user.
3. As a result the **Roles for the user: <username>** table is displayed (

4. Figure 7.1—6, 1).

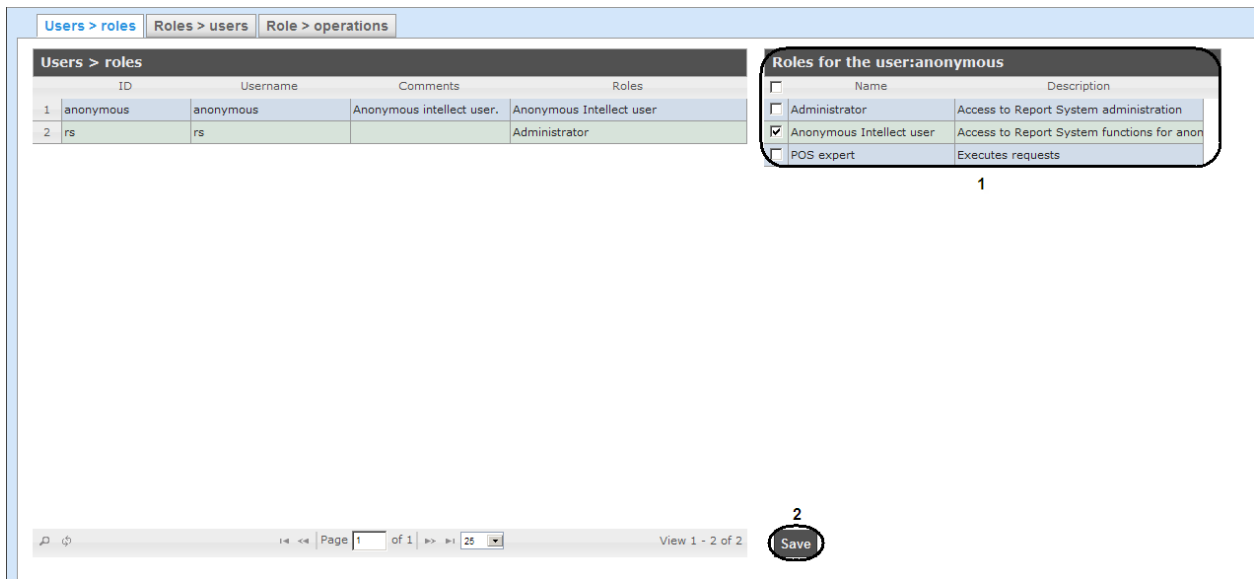


Figure 7.1—6 Assigning the roles to the user

5. On can change the list of roles assigned to the user by setting or deselecting the corresponding checkboxes (
6. Figure 7.1—6, 1).

Note. To assign all possible roles to the user set the checkbox in the table head at the Name field (Figure 7.1—7).

The close-up shows the **Roles for the user:anonymous** table with all checkboxes selected:

<input checked="" type="checkbox"/>	Name	Description
<input checked="" type="checkbox"/>	Administrator	Access to Report System administration
<input checked="" type="checkbox"/>	Anonymous Intellect user	Access to Report System functions for anon
<input checked="" type="checkbox"/>	POS expert	Executes requests

Figure 7.1—7 Assigning all roles to the user

7. Click **Save** (
8. Figure 7.1—6, 2).

Assigning the roles to the user is completed.

7.1.3.2 Adding the users to the role

In order to add the users to the role do the following:

1. Go to the **Roles > users** tab (Figure 7.1—8).

Roles > users		
Name	Description	ID
Administrator	Access to Report System administration	rs
Anonymous Intellect user	Access to Report System functions for anonymous o	anonymous
POS expert	Executes requests	

Figure 7.1—8 The Roles > users tab

2. Left-click the required role.
3. As a result the **Users in the role: <role name>** table is displayed (Figure 7.1—9, 1).

Roles > users			Users in the role:Administrator			
Name	Description	ID	<input type="checkbox"/>	ID	Username	Comments
Administrator	Access to Report System administration	rs	<input type="checkbox"/>	1	anonymous	Anonymous intellect user.
Anonymous Intellect user	Access to Report System functions for anonym	anonymous	<input checked="" type="checkbox"/>	2	rs	
POS expert	Executes requests					

1

2 **Save**

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Figure 7.1—9 Adding the users to the role

4. On can change the list of users added to the role by setting or deselecting the corresponding checkboxes (Figure 7.1—9, 1).

Note. To add all possible users to the role set the checkbox in the table head at the ID field (Figure 7.1—10).

Users in the role:Administrator						
<input checked="" type="checkbox"/>	ID	Username	Comments			
<input checked="" type="checkbox"/>	1	anonymous	anonymous	Anonymous intellect user.		
<input checked="" type="checkbox"/>	2	rs	rs			

Figure 7.1—10 Adding all users to the role

5. Click **Save** (Figure 7.1—9, 2).

Adding the users to the role is completed.

7.2 Setting up Report System operation in the automatic mode

7.2.1 Report System setting up procedure in the automatic mode

Setting up the *Report System* operation in the automatic mode is carried out in the **Scheduler** tab on the administration page.

The following succession is recommended while setting up:

1. In the **Email settings** tab setup the SMTP Server used for sending the auto-generated reports.

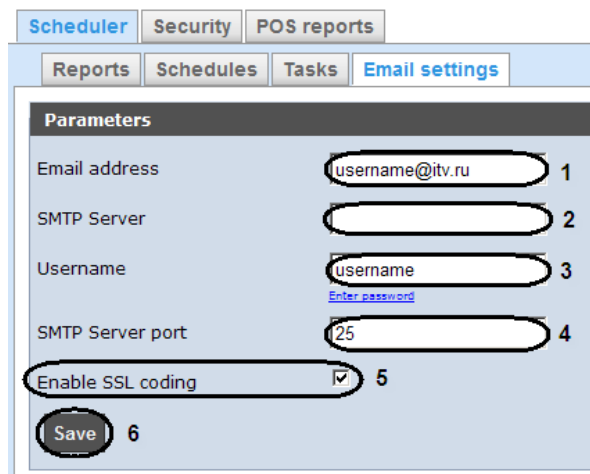
Note. This step can be missed if there is no need to send the reports by e-mail in the automatic mode.

2. In the **Reports** tab create the list of auto-generated reports.
3. In the **Schedules** tab setup the schedule of *Report System* operation in the automatic mode.
4. In the **Tasks** tab create the tasks for auto-generating the reports. Start their execution.

7.2.2 SMTP Server setup

In order to set up the SMTP Server do the following:

1. Go to the **Email settings** tab (Figure 7.2—1).



The screenshot shows the 'Scheduler' tab with sub-tabs for 'Reports', 'Schedules', 'Tasks', and 'Email settings'. The 'Email settings' sub-tab is active. Under the 'Parameters' section, there are five fields: 'Email address' (username@itv.ru), 'SMTP Server', 'Username' (username), 'SMTP Server port' (25), and 'Enable SSL coding' (checked). A 'Save' button is at the bottom. Numbered callouts 1 through 6 point to each field and the button respectively.

Figure 7.2—1 SMTP Server setup

2. In the **Email address** field (Figure 7.2—1, 1) type the e-mail address from which the auto-generated reports will be sent.
3. In the **SMTP Server** field (Figure 7.2—1, 2) enter the name of SMTP Server.
4. In the **Username** field (Figure 7.2—1, 3) enter the name of account used for sending the messages to SMTP Server.
5. Specify the password of the account used for sending the messages to SMTP Server. For this click the **Enter password** link (Figure 7.2—1). In the box (Figure 7.2—2) enter the password.



The screenshot shows a 'Username' field with 'username' entered and a 'Password' field which is empty. A 'Use previously entered password' link is visible below the password field.

Figure 7.2—2 Specifying the password of the account

6. In the **SMTP Server port** field (Figure 7.2—1, 4) enter the port number used by SMTP Server.

- If the SSL coding is required to connect the SMTP Server then set the **Enable SSL coding** checkbox (Figure 7.2—1, 5).
- Click **Save** (Figure 7.2—1, 6).

SMTP Server setup is completed.

7.2.3 Auto-generated reports setup

One can assign and setup the reports that will be auto-generated on the schedule.

Note. Schedule setup is given in details in Setting up the schedule of operation in the automatic mode . The connection between the report and the schedule element is setup at the final stage when the task is created (see the Setting up the automatically executed tasks chapter).

7.2.3.1 Making the report

In order to make the auto-generated report do the following:

- Go to the **Reports** tab (Figure 7.2—3).

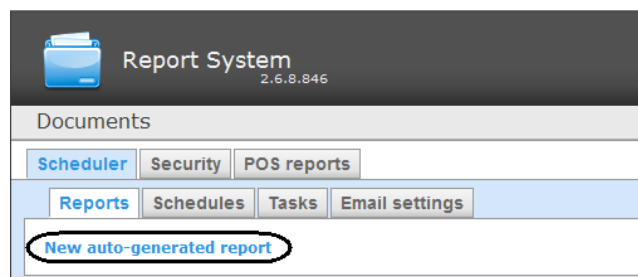


Figure 7.2—3 Making the auto-generated report

- Click the **New auto-generated report** link (Figure 7.2—3).
- As a result the **New report** form is displayed (Figure 7.2—4).

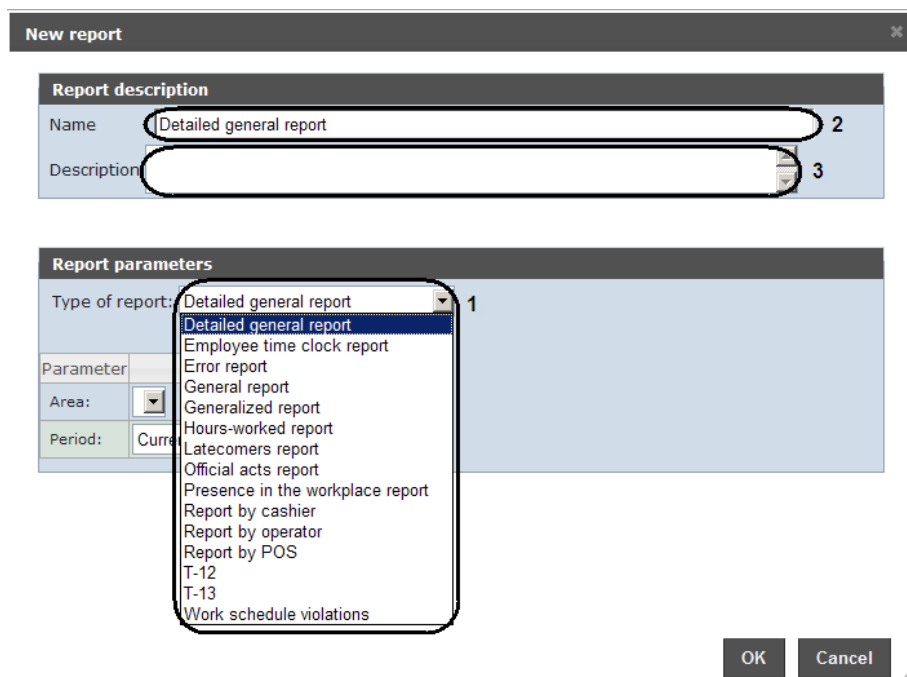


Figure 7.2—4 The New report form

4. In the **Report parameters** group from the **Type of report** list (Figure 7.2—4, 1) select the required type of report.
5. In the **Name** field (Figure 7.2—4, 2) of the **Report description** group the prior report name is displayed automatically. If it is necessary it can be edited.
6. In the **Description** field (Figure 7.2—4, 3) of the **Report description** group enter the description of the report contents.

Note. This field does not have to be filled in.

7. Set up the report parameters in the group of the same name (Figure 7.2—5, 1).

Note. The parameters are individual for every type of report, the procedure of their setting is clear.

Figure 7.2—5 Setting up the report parameters

8. In order to save the description and new report parameters click **OK** (Figure 7.2—5, 2).

*Note. In order to cancel making the report click **Cancel** (Figure 7.2—5, 3).*

Making the auto-generated report is completed.

7.2.3.2 *Editing the report*

In order to edit the auto-generated report do the following:

1. Go to the **Reports** tab (Figure 7.2—6).






New auto-generated report			
Name	Description	Type of report	Edit
Latecomers report		Detailed general report	 
Hours-worked report		Detailed general report	 

Figure 7.2—6 Editing the report

2. Click  for the required report in the **Edit** column (Figure 7.2—6).

- As a result the **Edit report** form is displayed (Figure 7.2—7). In this form one should edit the description and report parameters by analogy with the **New report** form (see *Making the report* section).

Figure 7.2—7 The Edit report form

- In order to save the report changes click **OK** (Figure 7.2—7).

Note. In order to cancel the report changes click **Cancel** (Figure 7.2—7).

In order to change the language of the auto-generated report select the corresponding language in the User profile page (see *User profile page* section).

Editing the auto-generated report is completed.

7.2.3.3 Deleting the report

In order to delete the auto-generated report do the following:

- Go to the **Reports** tab (Figure 7.2—8).

Name	Description	Type of report	Edit
Latecomers report		Detailed general report	
Hours-worked report		Detailed general report	

Figure 7.2—8 Deleting the report

- Click for the required report in the **Edit** column (Figure 7.2—8).
- In the appeared window confirm the report deleting by clicking **OK** (Figure 7.2—9).

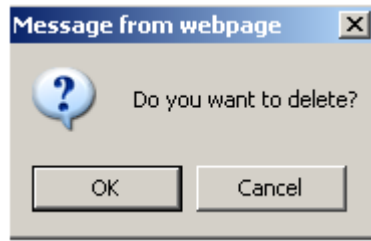


Figure 7.2—9 Confirmation of report deleting

Deleting the auto-generated report is completed.

7.2.4 Setting up the schedule of operation in the automatic mode

Setting up the schedule of *Report System* operation in the automatic mode is performed by creating the schedule items. Later on any of created items in the schedule can be used while creating the task that should be executed in the automatic mode (see *Setting up the automatically executed tasks* section).

7.2.4.1 Creating the schedule item

In order to create the schedule item do the following:

1. Go to the **Schedules** tab (Figure 7.2—10).

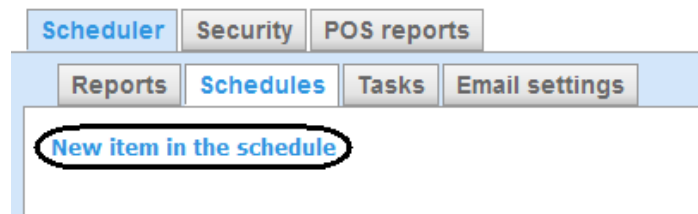



Figure 7.2—10 Creating new schedule item

2. Click the **New item in the schedule** link (Figure 7.2—10).
3. As a result the **New item in the schedule** form is displayed (Figure 7.2—11).

Figure 7.2—11 The new item in the schedule form

- In the **Time** group (Figure 7.2—11, 1) enter the instant approaching which the required reports will be generated automatically.

Note 1. The selection of required reports will be performed when the tasks are created (see [Setting up the automatically executed tasks](#) section).

Note 2. In order to set current date and time it is convenient to use  button (Figure 7.2—11, 2).

- If the reports should be generated regularly since the specified instant then in the **Repeat** group set the checkbox in the boxes of required generation period (Figure 7.2—11, 3).
- As a result the tweaking form of strategy for repeating is displayed (Figure 7.2—11, 4). The procedure of filling it in is clear.
- In order to save the schedule item click **OK** (Figure 7.2—11, 5).

*Note. In order to cancel creating of the schedule item click **Cancel** (Figure 7.2—11, 6).*

Creating the schedule item is completed.

7.2.4.2 *Editing the schedule item*

In order to edit the auto-generated report do the following:

- Go to the **Schedules** tab (Figure 7.2—12).

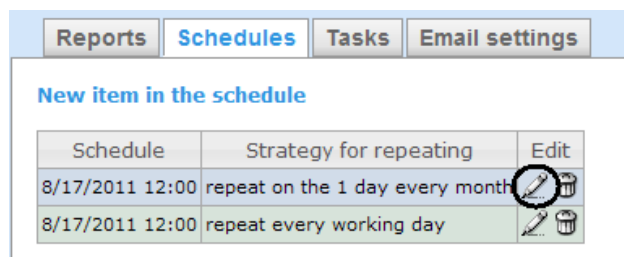


Figure 7.2—12 Editing the schedule item


- Click  for the required schedule item in the **Edit** column (Figure 7.2—12).
- As a result the **Edit the schedule item** form is displayed (Figure 7.2—13). In this form one should edit the schedule item parameters by analogy with the **New item in the schedule** form (see [Creating the schedule item](#) section).

Figure 7.2—13 The Edit the schedule item form

4. In order to save the changes in the schedule item click **OK** (Figure 7.2—13).

Note. In order to cancel the changes in the schedule item click **Cancel** (Figure 7.2—13).

Editing the schedule item is completed.

7.2.4.3 Deleting the schedule item

In order to delete the schedule item do the following:

1. Go to the **Schedules** tab (Figure 7.2—14).

Schedule	Strategy for repeating	Edit
8/17/2011 12:00	repeat on the 1 day every month	
8/17/2011 12:00	repeat every working day	

Figure 7.2—14 Deleting the schedule item

2. Click for the required schedule item in the **Edit** column (Figure 7.2—14).
3. In the appeared window confirm the schedule item deleting by clicking **OK** (Figure 7.2—15).

Figure 7.2—15 Confirmation of the schedule item deleting

Deleting the schedule item is completed.

7.2.5 Setting up the automatically executed tasks

If the required reports should be auto-generated according to the specified schedule then it is necessary to create, set up and run a task.

7.2.5.1 Creating the task

In order to create the auto-executed task do the following:

1. Go to the **Tasks** tab (Figure 7.2—16).

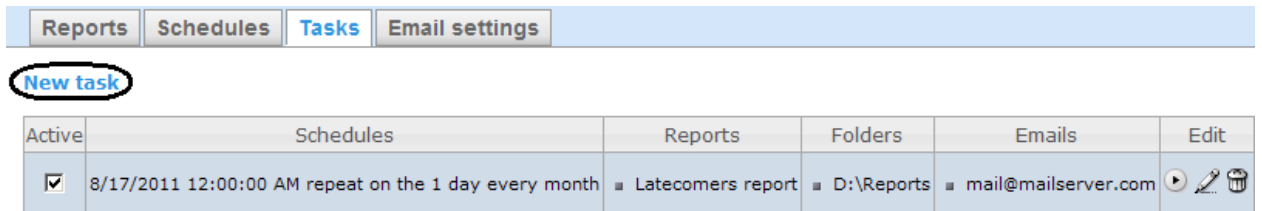


Figure 7.2—16 Creating a new task

2. Click the **New task** link (Figure 7.2—16).
3. As a result the **New task** form is displayed (Figure 7.2—17).

New task

Schedule :
8/17/2011 12:00:00 AM repeat on the 1 day every month 2

Reports:
 Latecomers report 1

Actions:
Folders: D:\Reports 3
Emails: mail@mailserver.com 4

Activate: 5

6 OK 7 Cancel

Figure 7.2—17 The New task form

4. In the **Reports** group (Figure 7.2—17, 1) select the reports that should be auto-generated by setting the checkboxes.
5. From the **Schedule** list (Figure 7.2—17, 2) select the schedule according to which the selected reports should be generated.
6. In the **Actions** group set up at least one action with the reports:
 - 6.1. In the **Foldres** field (Figure 7.2—17, 3) enter the path for the folders where the generated reports should be stored. Use Enter key as a separator, i.e. there is a certain line for every folder.

- In the **Emails** field (Figure 7.2—17, 4) enter the email addresses to which the generated reports should be sent. Use Enter key as a separator, i.e. there is a certain line for every address.

Note. Generated reports that are sent to emails are PDF and XLS files.

- In order to run the task execution right after its creation set the **Activate** checkbox (Figure 7.2—17, 5).

Note. Later one can run the task execution at any moment (see the Running and stopping the task execution section).

- In order to save the task parameters click **OK** (Figure 7.2—17, 6).

Note 1. In order to cancel the task creation click Cancel (Figure 7.2—17, 7).

Note 2. If there are no folders that are set at 6.1 step then the following message is displayed when the task parameters are saved (Figure 7.2—18). In order to auto create folders click OK.

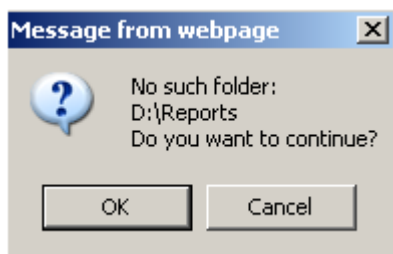


Figure 7.2—18 Message about non-existent folders

Creating the automatically executed task is completed.

7.2.5.2 Checking the task execution

One can check the task execution at any time without taking into account the selected schedule. For this do the following:

- Go to the **Tasks** tab (Figure 7.2—19).

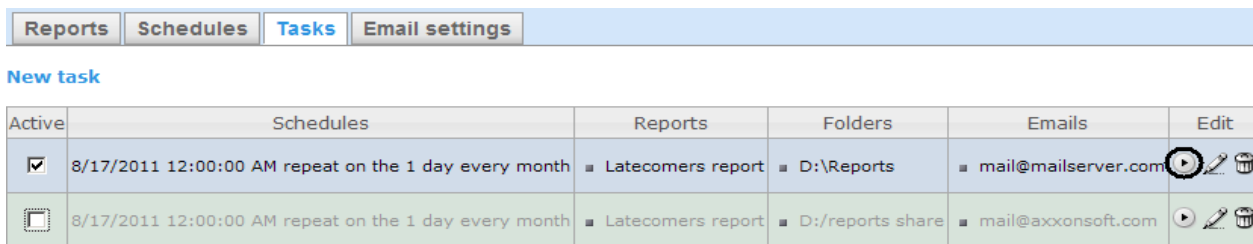


Figure 7.2—19 Checking the task execution

- For the required task click in the **Edit** column (Figure 7.2—19).
- Reports specified in the task will be generated and saved in the folders and/or sent to the e-mail addresses. If it is not happening one should check whether the actions with reports are set up correctly (see *Creating the task* section).

Checking the task execution is completed.

7.2.5.3 Running and stopping the task execution

One can run and stop the task execution without editing them. For this do the following:

1. Go to the **Tasks** tab (Figure 7.2—20).




Active	Schedules	Reports	Folders	Emails	Edit
<input checked="" type="checkbox"/>	8/17/2011 12:00:00 AM repeat on the 1 day every month	■ Latecomers report	■ D:\Reports	■ mail@mailserver.com	  
<input type="checkbox"/>	8/17/2011 12:00:00 AM repeat on the 1 day every month	■ Latecomers report	■ D:/reports share	■ mail@axxonsoft.com	  

Figure 7.2—20 Running and stopping the task execution

2. In the **Active** column (Figure 7.2—20) set the checkboxes checked for the tasks that should be run and unchecked for the tasks that should be stopped.

Running or/and stopping the task execution are completed.

7.2.5.4 Editing the task

In order to edit the auto-executed task do the following:

1. Go to the **Tasks** tab (Figure 7.2—21).




Active	Schedules	Reports	Folders	Emails	Edit
<input checked="" type="checkbox"/>	8/17/2011 12:00:00 AM repeat on the 1 day every month	■ Latecomers report	■ D:\Reports	■ mail@mailserver.com	  
<input type="checkbox"/>	8/17/2011 12:00:00 AM repeat on the 1 day every month	■ Latecomers report	■ D:/reports share	■ mail@axxonsoft.com	  

Figure 7.2—21 Editing the task


2. For the required task click  in the **Edit** column (Figure 7.2—21).
3. As a result the **Edit the task** form is displayed (Figure 7.2—22). The task parameters should be changed by analogy with the **New task** form (see *Creating the task* section).

Figure 7.2—22 The Edit the task form

4. In order to save the changes click **OK** (Figure 7.2—22).

Note. In order to cancel the changes in the task click **Cancel** (Figure 7.2—22).

Editing the auto-executed task is completed.

7.2.5.5 Deleting the task

In order to delete the task do the following:

1. Go to the **Tasks** tab (Figure 7.2—23).

Active	Schedules	Reports	Folders	Emails	Edit
<input checked="" type="checkbox"/>	8/17/2011 12:00:00 AM repeat on the 1 day every month	■ Latecomers report	■ D:\Reports	■ mail@mailserver.com	
<input type="checkbox"/>	8/17/2011 12:00:00 AM repeat on the 1 day every month	■ Latecomers report	■ D:/reports share	■ mail@axxonsoft.com	

Figure 7.2—23 Deleting the task

2. For the required task click in the **Edit** column (Figure 7.2—23).
3. In the appeared box confirm the task deleting by clicking **OK** (Figure 7.2—24).

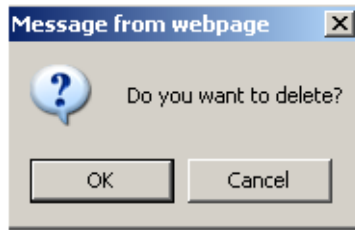


Figure 7.2—24 Confirmation of the task deleting

Deleting the task is completed.

7.3 Setting up the POS reports

Setting up the POS reports is performed in the **POS reports** tab on the administration page.

POS reports setup consists of:

1. Creating the list of POS operators.
2. Setting up the statuses of POS events.
3. Setting up the groups of statuses of POS events.

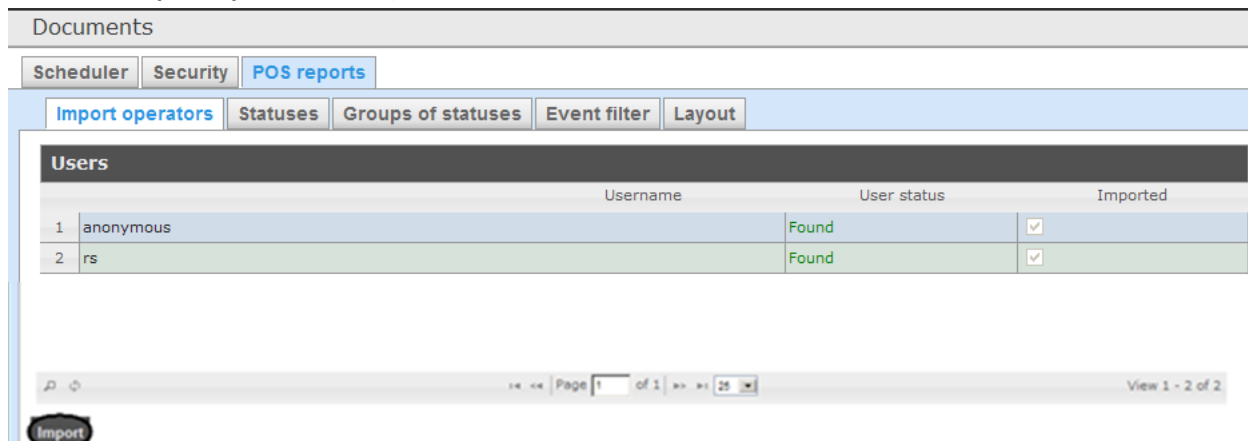
7.3.1 Creating the list of POS operators

The user that is not in the list of POS operators can not change statuses of POS events in reports whether he has the **POS expert** role or not (see *Set up the roles and users* section).

The list of POS operators is empty by default. In order to fill it in it is necessary to import users from the general list of *Report System* users.

In order to import users do the following:

1. Go to the **Import operators** tab (



2. Figure 7.3—1).

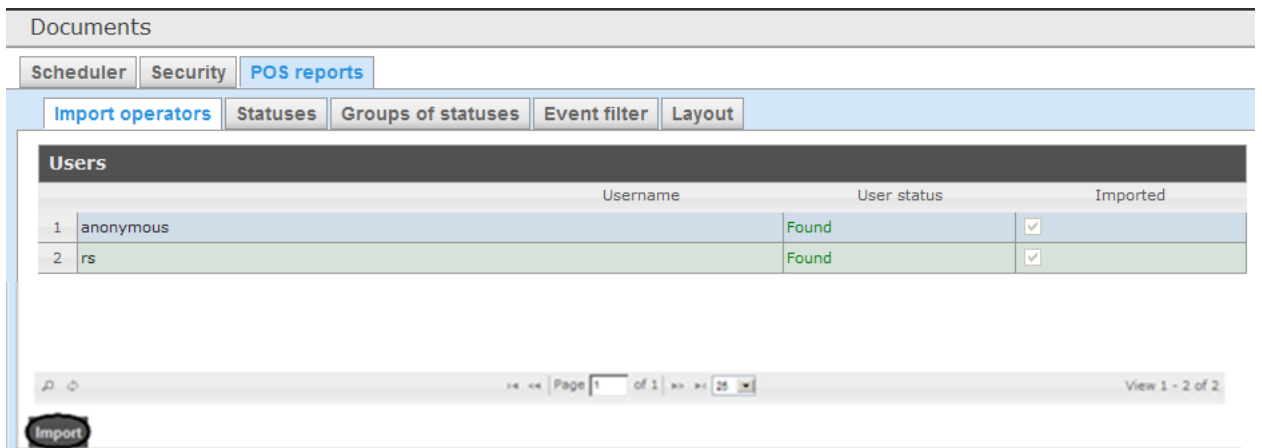


Figure 7.3—1 Users import

3. The list of users registered in *Report System* including those who do not have the rights of POS operator or POS expert, is displayed. If the user is imported into the list of POS operators then there will be the checked checkbox in the **Imported** column.
4. In order to import remaining users click **Import** (Figure 7.3—1).

Users import into the list of POS operators is completed.

7.3.2 Setting up the statuses of POS events

Every POS event has the status. By default all POS events have the **Event not processed** status. In order to change this status POS operator should be added to the **POS expert** role.

Note. This role allows changing the statuses of events repeatedly.

The following statuses processed by the operator of POS events are already registered in *Report System*:

1. Non- violation.
2. Possibly violation.
3. Minor violation detected.
4. Moderate violation detected.
5. Serious violation detected.

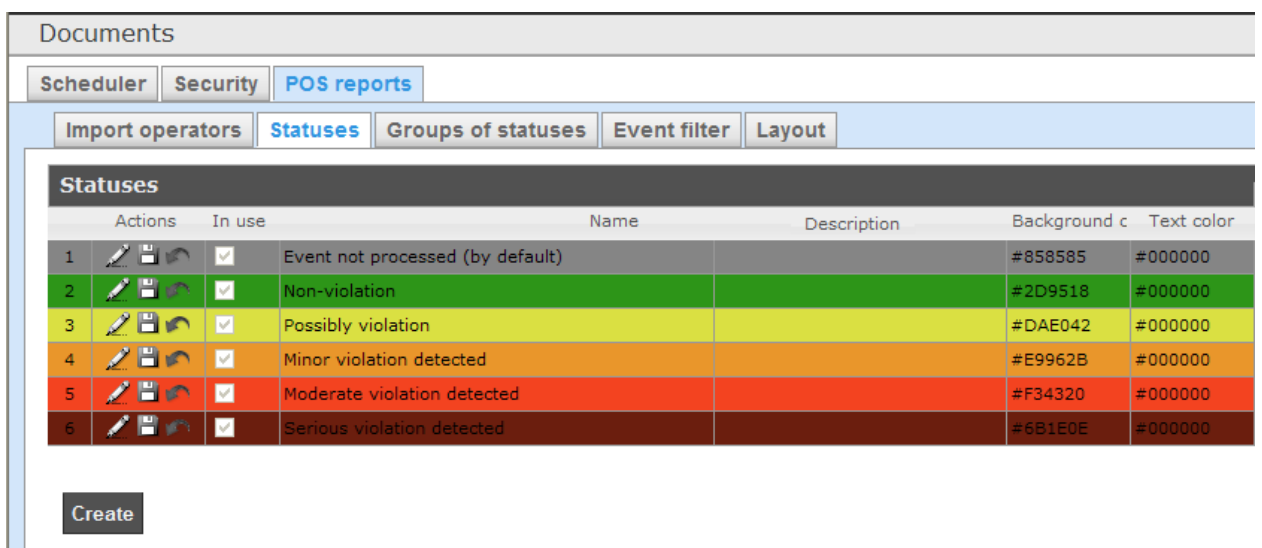


Figure 7.3—2 Standard statuses of POS events

One can create user statuses and edit all existing ones.

7.3.2.1 Creating the user status

In order to create the user status do the following:

1. Go to the **Statuses** tab (Figure 7.3—3).

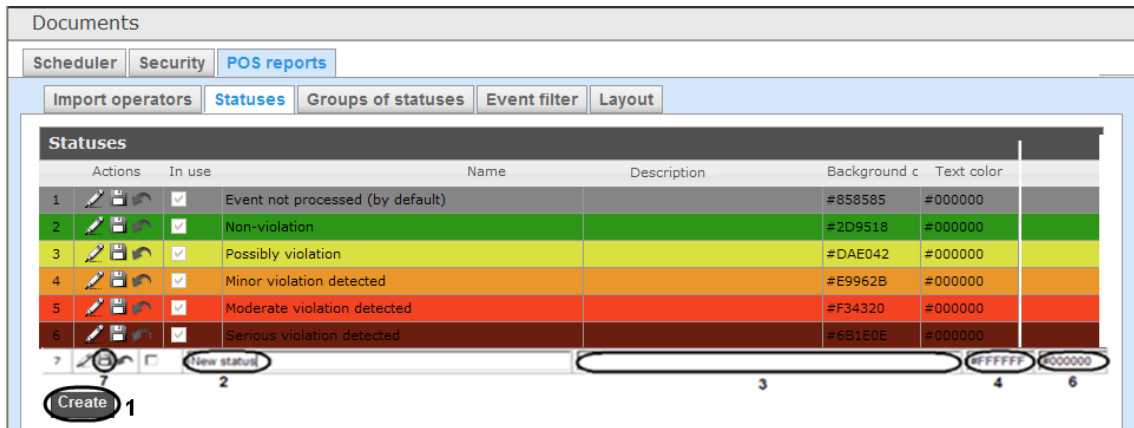



Figure 7.3—3 Creating the user status

2. Click **Create** (Figure 7.3—3, 1).
3. As a result a new line is added to the **Statuses** table.
4. In the **Name** field (Figure 7.3—3, 2) enter a status name.
5. In the **Description** field (Figure 7.3—3, 3) enter a short status description.
6. Set a color in which the line with event when it is moved to the created status will be colored. For this enter HTML color code in the **Background color** field (Figure 7.3—3, 4) or use a color selection window. In the latter case left-click in the **Background color** field (Figure 7.3—3, 4) and set the necessary color in the appeared window (Figure 7.3—3, 5). For setting a color one can use both a color palette and RGB/HSB/HTML codes. In order to apply a color to a status and close a color selection window click .
7. By analogy with the step 6 set a color in which the text of event when it is moved to the created status will be colored (Figure 7.3—3, 6).
8. If it is necessary to use the status after its creation then set the checkbox checked in the **In use** column (Figure 7.3—4).

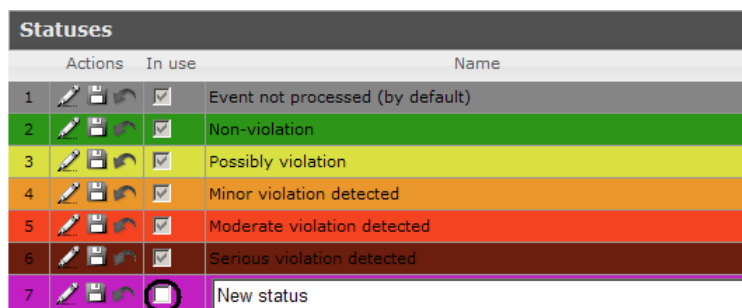


Figure 7.3—4 Status activation

Note. One can both activate and deactivate the status afterwards when it is edited (see Editing the status section).

- In order to save the status click  (Figure 7.3—3, 7) in the **Actions** column.

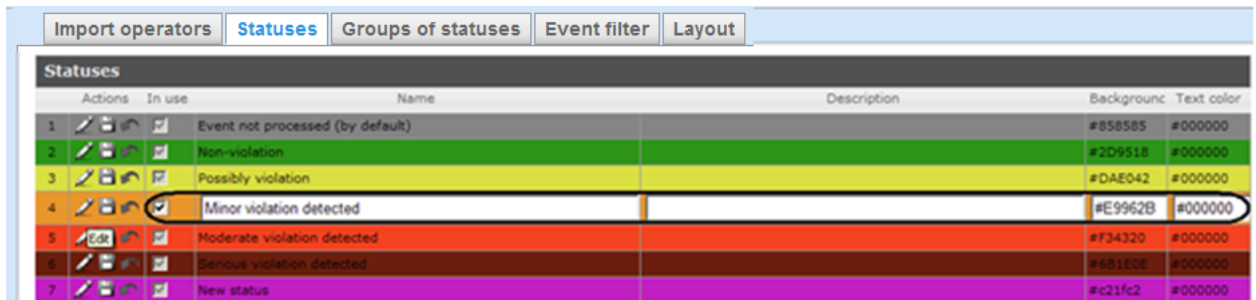
Note. In order to cancel the status creation click  in the same column.

User status creating is completed.

7.3.2.2 Editing the status



In order to edit a status do the following:

- Go to the **Statuses** tab (Figure 7.3—5).



Statuses						
	Actions	In use	Name	Description	Background	Text color
1			Event not processed (by default)		#858585	#000000
2			Non-violation		#2D9518	#000000
3			Possibly violation		#DAE042	#000000
4			Minor violation detected		#E9962B	#000000
5			Moderate violation detected		#F34320	#000000
6			Serious violation detected		#8B1E0E	#000000
7			New status		#c21f2	#000000

Figure 7.3—5 Editing the status

- Click  for a required status in the **Actions** column (Figure 7.3—5).
- As a result it will be possible to edit a status (Figure 7.3—5). The editing procedure of any status is similar to creating the user status (see *Creating the user status* section).
- In order to save the status changes click  in the **Actions** column (Figure 7.3—5).

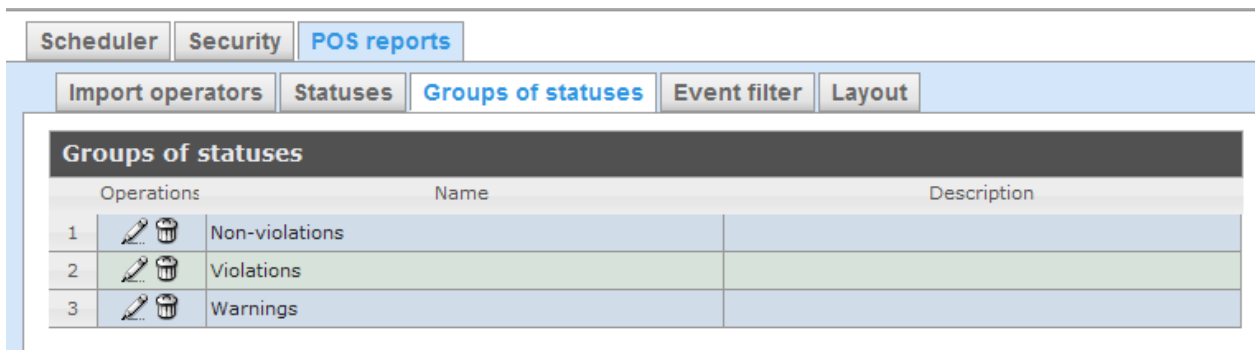
Note. In order to cancel the changes in the status click  in the same column (Figure 7.3—5).

Status editing is completed.

7.3.3 Setting up the groups of statuses of POS events

One can group statuses of POS events on the basis of one or another feature to make *Report System* more convenient to use. Created groups are used for making reports.

Setting up the groups of statuses of POS events is carried out in the **Groups of statuses** tab (Figure 7.3—6).



Groups of statuses			
	Operations	Name	Description
1		Non-violations	
2		Violations	
3		Warnings	

Figure 7.3—6 The Groups of statuses tab

By default three groups of statuses of POS events are already created in *Report System* (Table 7.3—1, Figure 7.3—6).

Table 7.3—1 Groups of statuses of POS events

Group of statuses	Statuses
Non-violations	Non-violation
Violations	Minor violation detected
	Moderate violation detected
	Serious violation detected
Warnings	Event not processed
	Possibly violation

One can create other groups and also edit and delete the existing ones.

7.3.3.1 Creating a group of statuses

In order to create a group of statuses do the following:

1. Go to the **Groups of statuses** tab (Figure 7.3—7).

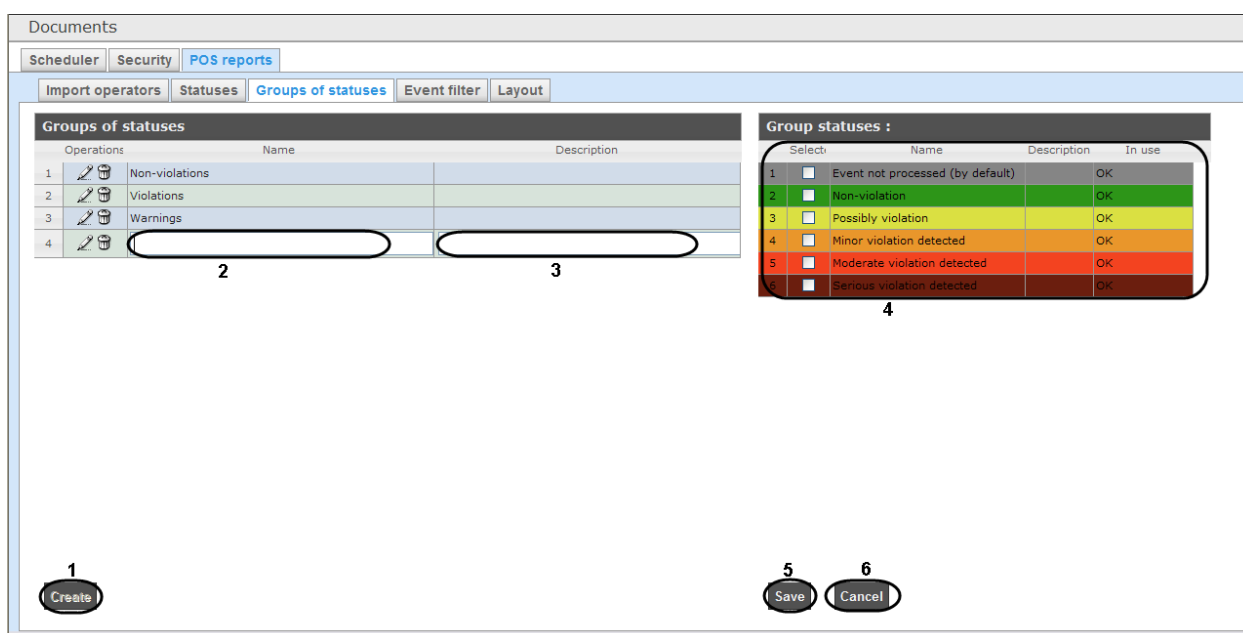


Figure 7.3—7 Creating a group of statuses

2. Click **Create** (Figure 7.3—7, 1).
3. As a result a new line is added to the **Groups of statuses** table. Fill in its fields:
 - 3.1. In the **Name** field enter the name of a new group of statuses (Figure 7.3—7, 2).
 - 3.2. In the **Description** field enter a short description of a group of statuses (Figure 7.3—7, 3).

Note. This field is optional for filling in.

4. In the **Selected** column of the **Group statuses** table (Figure 7.3—7, 4) set checkboxes checked for those statuses that should be added to the group.

*Note. One should make sure that these statuses are in use (in the **In use** field there is **OK**). Otherwise the statuses will be ignored while making a report by group.*

5. In order to save parameters of a new group of statuses click **Save** (Figure 7.3—7, 5).

*Note. In order to cancel the creating a new group of statuses click **Cancel** (Figure 7.3—7, 6).*

Creating a new group of statuses is completed.

7.3.3.2 Editing a group of statuses

In order to edit a group of statuses do the following:

1. Go to the **Groups of statuses** tab (Figure 7.3—8).

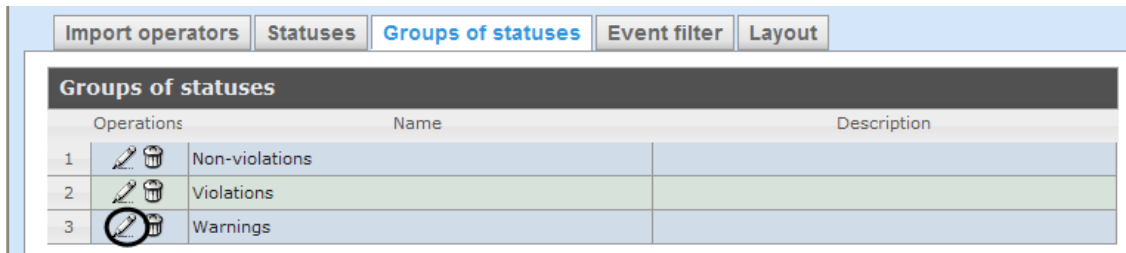



Figure 7.3—8 Editing a group of statuses

2. For the required group of statuses click  in the **Operations** column (Figure 7.3—8).
3. As a result it will be possible to edit all parameters of a group of statuses. One can edit the group of statuses by analogy with its creation (see *Creating a group of statuses* section).

Editing a group of statuses is completed.

7.3.3.3 Deleting a group of statuses

In order to delete a group of statuses do the following:

1. Go to the **Groups of statuses** tab (Figure 7.3—9).

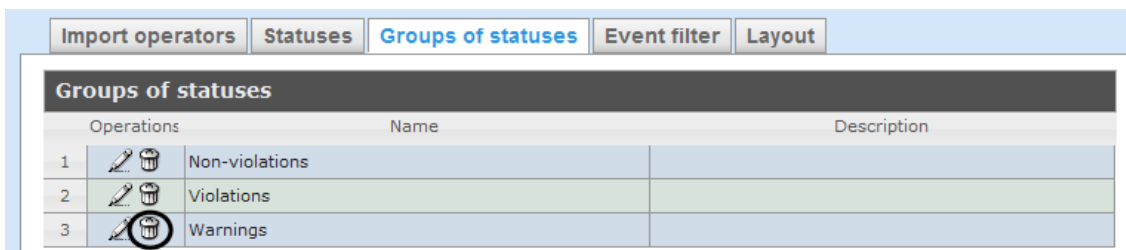



Figure 7.3—9 Deleting a group of statuses

2. For the required group of statuses click  in the **Operations** column (Figure 7.3—9).
3. In the appeared window confirm deleting a group of statuses by clicking **OK** (Figure 7.3—10).

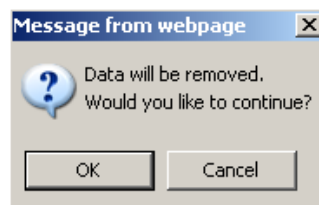


Figure 7.3—10 Confirmation of deleting a group of statuses

Deleting a group of statuses is completed.

7.3.4 Setting up the filter events

One can create filters of function events and make general reports by these filters.

Setting up the event filters is carried out in the **Event filter** tab (Figure 7.3—11).

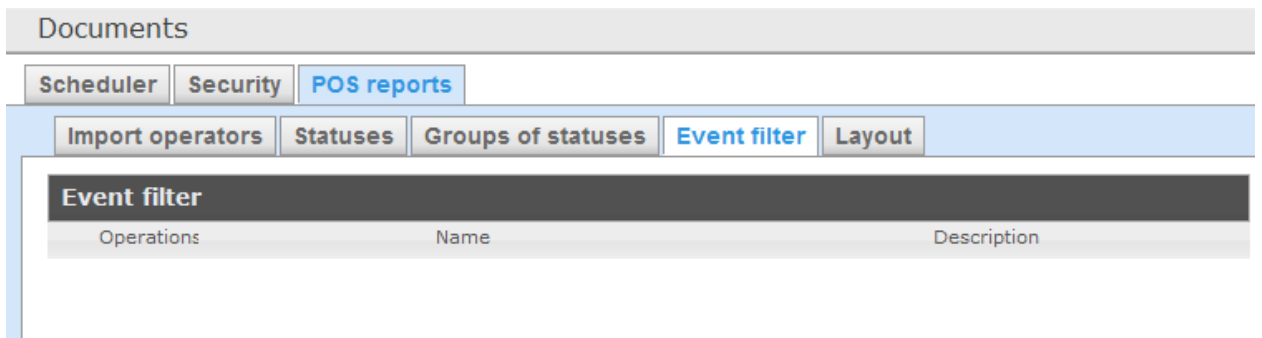


Figure 7.3—11 The filter of events

By default none filters are created in *Report System*.

One can create event filters and also edit and delete them.

7.3.4.1 Creating a filter of events

In order to create a filter of events do the following:

1. Go to the **Event filter** tab (Figure 7.3—12).

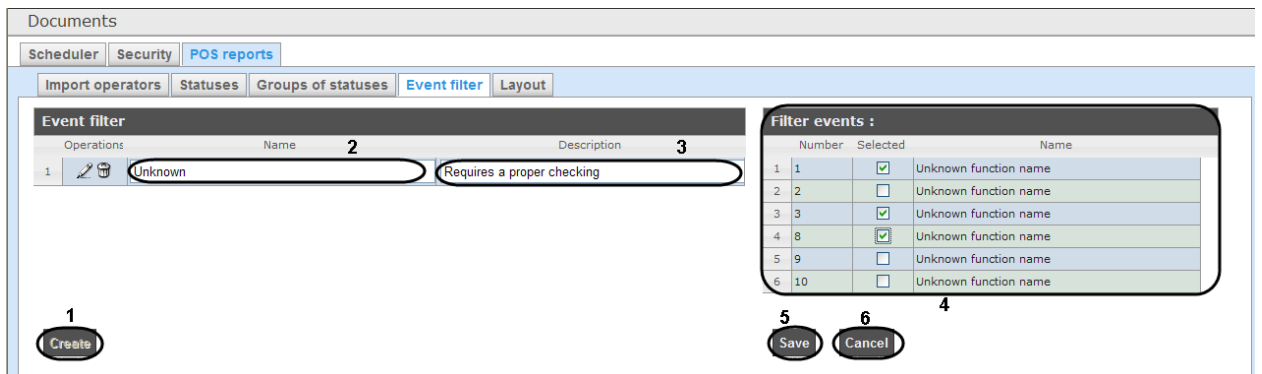


Figure 7.3—12 Creating a filter of events

2. Click **Create** (Figure 7.3—12, 1).
3. As a result a new line is added to the **Event filter** table. Fill in its fields:
 - 3.1. In the **Name** field enter the name of a new filter of events (Figure 7.3—12, 2).
 - 3.2. In the **Description** field enter a short description of a filter of events (Figure 7.3—12, 3).

Note. This field is optional for filling in.

4. In the **Selected** column of the **Event filter** table (Figure 7.3—12, 4) set checkboxes checked for those events that should be added to the filter.
5. In order to save parameters of a new filter of events click **Save** (Figure 7.3—12, 5).

Note. In order to cancel the creating a new filter of events click Cancel (Figure 7.3—12, 6).

Creating a new filter of events is completed.

7.3.4.2 Editing a filter of events

In order to edit a filter of events do the following:

1. Go to the **Event filter** tab (Figure 7.3—13).

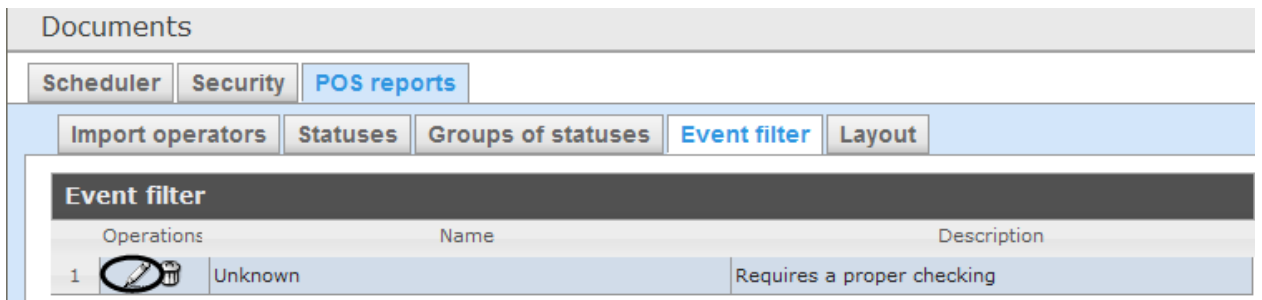



Figure 7.3—13 Editing a filter of events

2. For the required filter of events click  in the **Operations** column (Figure 7.3—13).
3. As a result it will be possible to edit all parameters of a filter of events. One can edit the filter of events by analogy with its creation (see *Creating a filter of events* section).

Editing a filter of events is completed.

7.3.4.3 Deleting a filter of events

In order to delete a filter of events do the following:

4. Go to the **Event filter** tab (Figure 7.3—14).

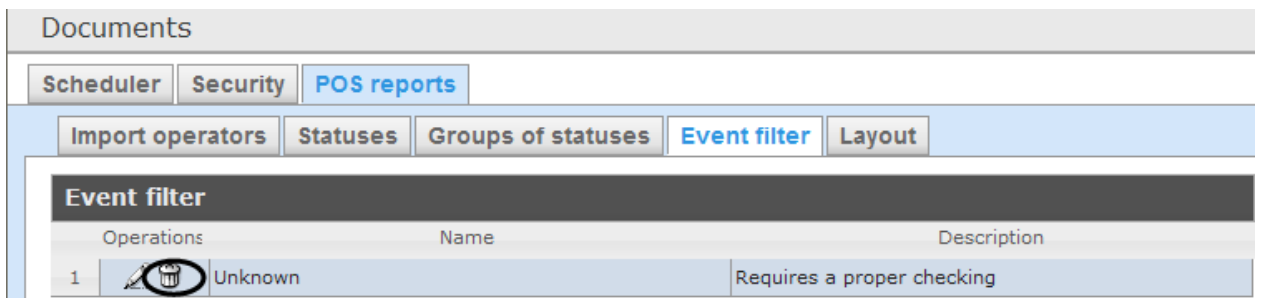



Figure 7.3—14 Deleting a filter of events

5. For the required filter of events click  in the **Operations** column (Figure 7.3—14).
6. In the appeared window confirm deleting a filter of events by clicking **OK** (Figure 7.3—15).

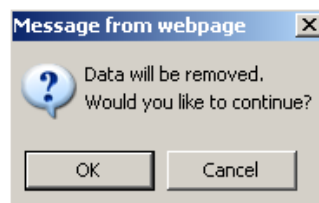


Figure 7.3—15 Confirmation of deleting a filter of events

Deleting a filter of events is completed.

7.3.5 Selecting layouts in POS reports

One can select the layout of POS reports to make *Report System* more convenient to use.

Selecting the layouts POS events is carried out in the **Layout** tab (Figure 7.3—16).

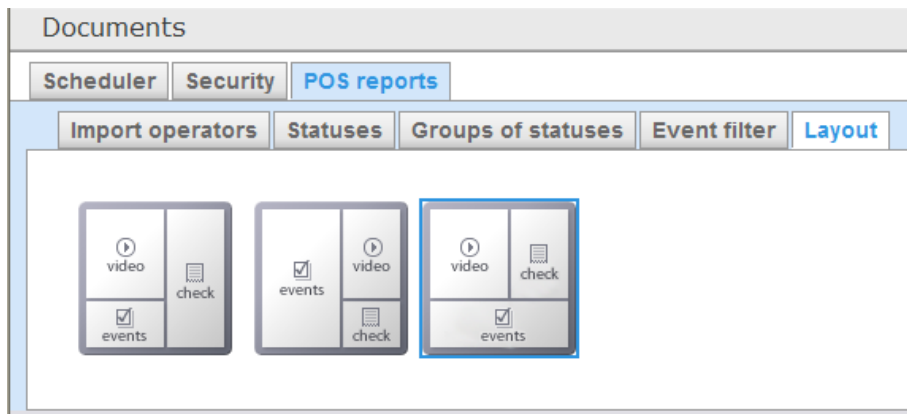


Figure 7.3—16 The Groups of statuses tab

By default three layouts of POS reports are already created in *Report System*.

Select the needed layout by clicking the left mouse button.

8 Working with Report System

Working with *Report System* is performed on the document page (see *Report System interface* section).

In the current release *Report System* allows creating and processing reports of the following software products:

1. *POS Intellect* software package;
2. *Time and attendance* module (installed from *ACFA Intellect* software package distribution kit);
3. detection package (Queue Length detection and People Counter detection);
4. *AUTO Intellect* software package.

8.1 Working with POS reports

POS reports are created by the local database of the *Intellect* software package, but it is also possible to use data from remote servers. Configuration of database replication is needed (see *POS-Intellect Software Package. Administrator's guide* document, *Configuring the POS-replicator system object* section).

Working with POS reports starts with selection of summary report type.

8.1.1 General reports

8.1.1.1 Selecting a type of general POS report

In order to select type of general POS report click **POS reports** in the menu of reports (Figure 8.1—1).

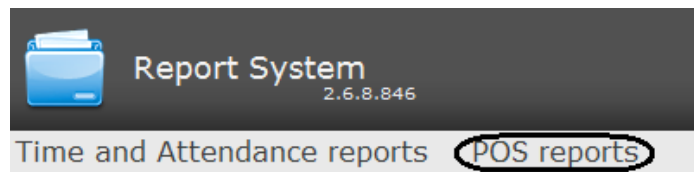


Figure 8.1—1 Switch to selecting a type of summary POS report

As a result the list of available general POS reports (with a short description of each one) is displayed (Figure 8.1—2):

1. Report by cashier is a general table of by cashier-events;
2. Report by POS is a general table of by POS-events;
3. Report by operator is a general table of by operator-events.



Figure 8.1—2 List of general POS reports

In order to switch to the required report click the corresponding link (Figure 8.1—1).

Note. The list of links for switching to general POS reports is also available when hovering over a link to POS reports in the reports menu (Figure 8.1—3).



Figure 8.1—3 Access to the list of general reports in the reports menu

8.1.1.2 *Report by cashier*

In order to display a report by cashier do the following:

1. Select **Report by cashier** in one way (see *Selecting a type of general POS report* section).

Report by cashier

Parameter	Value
Cashiers:	Choose All, None 2 <input checked="" type="checkbox"/> Anderson H. 1 <input checked="" type="checkbox"/> Jonson K. 1 <input checked="" type="checkbox"/> Smith G. 1 <input checked="" type="checkbox"/> Walsh L. 1
Period:	3 User defined from 03/31/2013 to 03/31/2013
Group of statuses:	4 [all]
Events:	5 [all]
Execute 6	

Figure 8.1—4 Setting parameters of a report by cashier

2. Select cashiers by whom it is necessary to display a report by setting corresponding checkboxes checked in the list (Figure 8.1—4, 1).

*Note. In order to set checkboxes checked in every item of the list click **All**, to set all checkboxes unchecked click **None** (Figure 8.1—4, 2).*

3. Set a period for which it is necessary to display a report (Figure 8.1—4, 3). One can set both a standard period (e.g. current month, preceding year etc.) and a user one.
4. Specify a group of statuses of those events that should be displayed in a report (Figure 8.1—4, 4). If **All** is selected then all POS reports are displayed regardless of their status.
5. Specify a filter of those events that should be displayed in a report (Figure 8.1—4, 5). If **All** is selected then filter of events is not considered and report is created by all events.
6. Click **Execute** (Figure 8.1—4, 6).

As a result a general table of by-cashier events (according to the parameters) is displayed (Figure 8.1—5). In the **Total** column the total amount of events is displayed by their type. In the column called by cashier name the amount of events registered for this cashier is displayed by their type.

POS reports Time and Attendance reports

Navigation: POS reports > Report by cashier > General report

Group of statuses: [all] Events: [all]

Number	Name	Total	Anderson H.	Johnson K.	Smith G.	Walsh L.
1	Beginning of the document	5	1	2	1	2
2	End of document	5	1	1	1	2
3	Add goods in the document	23	2	3	3	10
4	Changing the price of goods in the document	2	1	1	1	2
5	Appointment of discount (margin) on the goods	2	1	1	1	2
6	A preliminary total	2	1	1	1	2
7	Calculation	2	1	1	1	2
8	Total	2	1	1	1	2
9	Payment	2	1	1	1	2
10	Financial document printing	2	1	1	1	2

Save

Figure 8.1—5 Displaying a general report by cashier

In order to save a general report by cashier in.xls format click **Save**.

8.1.1.3 Report by POS terminal

Attention! In order to create reports by POS terminal the Shop objects are to be created and configured in the Intellect software package. The Shop object is created on the Programming tab of the System settings dialog box.

Note. Detailed information about Shop object settings see in the Setting up the Shop system objects section of the POS-Intellect Software Package. Administrator’s Guide document.

In order to display a report by POS do the following:

1. Select **Report by POS** in one way (see *Selecting a type of general POS report* section).

AUTO reports General reports People Counter detectors POS reports Queue

Navigation: POS reports > Report by POS

Report by POS

Parameter	Value
POS:	Choose: All, None 2 <input checked="" type="checkbox"/> Магазин 2 1 <input checked="" type="checkbox"/> Магазин 1
Period:	3 User defined from 03/31/2013 to 03/31/2013
Group of statuses:	[all] 4
Events:	[all] 5
Execute 6	

Figure 8.1—6 Setting parameters of a report by POS

2. Select POS terminals (cash desks) by which it is necessary to display a report by setting corresponding checkboxes checked in the list (Figure 8.1—6, 1).

*Note 1. In order to set checkboxes checked in every item of the list click **All**, to set all checkboxes unchecked click **None** (Figure 8.1—6, 2).*

Note 2. In order to select all POS terminals in one shop set a checkbox for this shop. In order to delete all POS terminals of a shop from report do vice versa: set a checkbox unchecked for this shop.

Note 3. POS terminals which do not related with the shop are not available in the list.

3. Set a period for which it is necessary to display a report (Figure 8.1—6, 3). One can set both a standard period (e.g. current month, preceding year etc.) and a user one.
4. Specify a group of statuses of those events that should be displayed in a report (Figure 8.1—6, 4). If **All** is selected then all events are displayed regardless of their status.
5. Specify a filter of those events that should be displayed in a report (Figure 8.1—6, 5).). If **All** is selected then filter of events is not considered and report is created by all events.
6. Click **Execute** (Figure 8.1—6, 6).

As a result a general table of by-POS events (according to the parameters) is displayed (Figure 8.1—7). In the **Total** column the total amount of events is displayed by their type. In the column called by cash desk name the amount of events registered for this cash desk is displayed by their type.

POS reports Time and Attendance reports

Navigation: POS reports > Report by POS > General report

Group of statuses: [all] Events: [all]

Number	Name	Total	POS- terminal 1
1	Beginning of the document	5 5	
2	End of document	5 5	
3	Add goods in the document	23 23	
4	Changing the price of goods in the document	3 3	
5	Appointment of discount (margin) on the goods	3 3	
6	A preliminary total	3 3	
7	Calculation	3 3	
8	Total	3 3	
9	Payment	3 3	
10	Financial document printing	3 3	

Save

Figure 8.1—7 Displaying a general report by POS terminals

In order to save a general report by POS terminals in.xls format click **Save**.

8.1.1.4 Report by POS operator

One can create reports by POS operators that gave one or another status to POS events.

In order to display a report by POS operator do the following:

7. Select **Report by operator** in one way (see *Selecting a type of general POS report* section)

Parameter	Value
Operators:	Choose All, None 2 <input checked="" type="checkbox"/> rs 1 <input checked="" type="checkbox"/> anonymous
Period:	3 User defined from 03/31/2013 to 03/31/2013
Group of statuses:	4 [all]
Events:	5 [all]
<input type="button" value="Execute"/> 6	

Figure 8.1—8 Setting parameters of a report by operator

8. Select POS operators by which it is necessary to display a report by setting corresponding checkboxes checked in the list (Figure 8.1—8, 1).

*Note. In order to set checkboxes checked in every item of the list click **All**, to set all checkboxes unchecked click **None** (Figure 8.1—8, 2).*

9. Set a period for which it is necessary to display a report (Figure 8.1—8, 3). One can set both a standard period (e.g. current month, preceding year etc.) and a user one.
10. Specify a group of statuses of those events that should be displayed in a report (Figure 8.1—8, 4). If **All** is selected then all events are displayed regardless of their status.
11. Specify a group of those events that should be displayed in a report (Figure 8.1—8, 5). If **All** is selected then filter of events is not considered and report is created by all events.
12. Click **Execute** (Figure 8.1—8, 6).

As a result a general table of by-operator events (according to the parameters) is displayed (Figure 8.1—9). In the **Total** column the total amount of events is displayed by their type. In the column called by POS operator name the amount of events processed by this operator (changed a status) is displayed by their type.

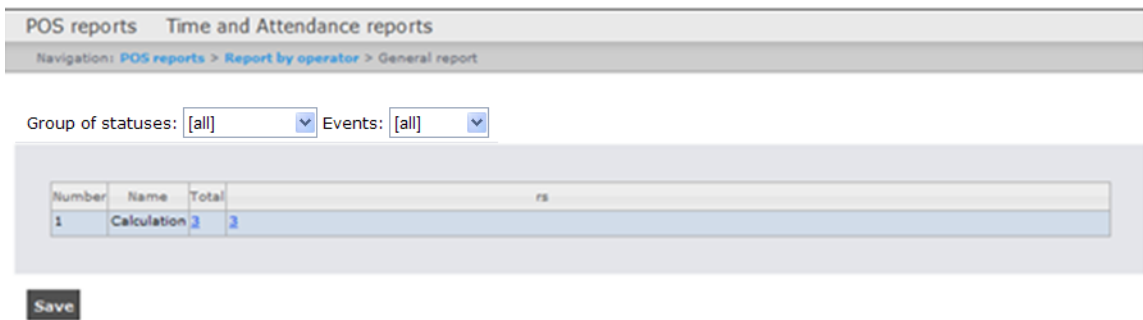


Figure 8.1—9 Displaying a general report by POS operators

In order to save a general report by POS operators in.xls format click **Save**.

8.1.2 Detailed reports

One can view and process the following detailed reports by event:

1. for specific cashier/POS terminal/POS operator;
2. for all cashiers/POS terminals/POS operators.

A detailed report enables viewing data from the POS terminal that corresponds to the POS event. It also enables viewing an event archive (if there are relevant settings in *POS Intellect* software package).

Detailed reports are created on the basis of corresponding general reports (e.g. a detailed report by cashier is created on the basis of a general report by cashier).

8.1.2.1 Viewing a detailed report

In order to view a detailed report, do the following:

1. Display a corresponding general report (Figure 8.1—10).

Number	Name	Total	POS- terminal 1
1	Beginning of the document	5	5
2	End of document	3	3
3	Add goods in the document	23	23
4	Changing the price of goods in the document	3	3
5	Appointment of discount (margin) on the goods	3	3
6	A preliminary total	3	3
7	Calculation	3	3
8	Total	3	3
9	Payment	3	3
10	Financial document printing	3	3

Figure 8.1—10 General report

2. Click the link in the cell corresponding to a necessary event and a cashier/POS terminal/ POS operator (Figure 8.1—10). To display a detailed report by event for all cashiers/POS terminals/ POS operators click the corresponding link in the **Total** cell (Figure 8.1—11).

Name	Total	Anderson H.
Beginning of the document	6	1
End of document	5	1
Add goods in the document	25	5
Changing the price of goods in the document	5	1
Appointment of discount (margin) on the goods	5	1
A preliminary total	5	1
Calculation	5	1
Total	5	1
Payment	5	1
Financial document printing	5	1

Figure 8.1—11 Access to the general detailed report

3. As a result the required detailed report by event is displayed (Figure 8.1—12).

Events: Назначение скидки (наценки) на товар / Total								
	Store	POS	Date/time	Full Name	Receipt number	Code	Name	Price
1	Shop 1	POS terminal 1	4/15/2013 10:09:25	Серегина М. М.	2559	49605	Хлеб Слава с фрукт	33.3
2	Shop 1	POS terminal 1	4/15/2013 10:09:25	Серегина М. М.	2559	43256	Мороженое Сахарна	21.4
3	Shop 1	POS terminal 1	4/15/2013 10:09:25	Серегина М. М.	2559	1970	Стиральный порошок	27.8
4	Shop 1	POS terminal 1	4/15/2013 10:09:26	Серегина М. М.	2559	26741	Свекла мытая фас. г	29.9
5	Shop 1	POS terminal 1	4/15/2013 10:09:26	Серегина М. М.	2559	46658	Кефир Снежок плен	19.7
6	Shop 1	POS terminal 1	4/15/2013 10:09:26	Серегина М. М.	2559	25573	Пакет для завтрака	11.4

Figure 8.1—12 Detailed report

All detailed reports are the same in the structure and represent the table that consists of the following columns:

1. Store where the event happened;
2. Number of POS terminal where the event happened;
3. Date and time of event registration;
4. Full name of cashier for whom the event was registered;
5. Receipt number in which the event was registered;
6. Code;
7. Name;
8. Price;
9. Quantity;
10. Total sum;
11. Receipt total;
12. Cash;
13. Change;
14. Previous status of event;
15. Current status of event;
16. POS operator who gave the current status to the event;
17. Date and time of last status change.

8.1.2.2 Viewing data from the POS terminal and the video of event

In order to view data from the POS terminal and video of event, do the following:

1. Display a detailed report (Figure 8.1—13).

The screenshot shows the 'Report System' interface with the following components:

- Navigation:** AUTO reports, General reports, People Counter detectors, POS reports, Queue Length detectors. Sub-navigation: Time and Attendance reports > Navigation: POS reports > Report by cashier > General report > Detailed report.
- Video Window (3):** Displays a receipt from a camera. Text includes: 36.8 руб. * 1 = 36.8 руб., Колбаса Докторская ГОСТ Белгород 500г Иней Рос 69.9 руб. * 1 = 69.9 руб., Сметана Веселый молочник 20% 400г ВЕД ОАО Рос, Сумма скидки: 0.37 руб., Дисконтная карта: 765800517777, Расчет: 106.33 руб., Итого: 106.33 руб., Оплата: Сумма по чеку: 106.33, Наличными: 110, Сдача: 3.67, Печать документа, Конец документа, Разрегистрация пользователя, Кассир: Ушакина В. М., ID: 7850.
- Receipt Window (2):** Shows cashier details: Серегина М. М., Receipt number: 2559, Date: 25.05.10, Time: 21:22:33, ID: 7965. Item list: Хлеб Слава с фруктами в нар. 300г хлебозавод (33.3 руб. * 1 = 33.3 руб.), Мороженое Сахарная трубочка крем-брюле в ц (21.4 руб. * 1 = 21.4 руб.).
- Events Table (1):** Table with columns: Store, POS, Date/time, Full Name, Receipt number, Code, Name, Price. Row 2 is highlighted in green.

Events: Назначение скидки (наценки) на товар / Total							
Store	POS	Date/time	Full Name	Receipt number	Code	Name	Price
1 Shop 1	1 POS terminal 1	4/15/2013 10:09:25	Серегина М. М.	2559	49605	Хлеб Слава с фрукт	33.3
2 Shop 1	POS terminal 1	4/15/2013 10:09:25	Серегина М. М.	2559	43256	Мороженое Сахарна	21.4
3 Shop 1	POS terminal 1	4/15/2013 10:09:25	Серегина М. М.	2559	1970	Стиральный порош	27.8
4 Shop 1	POS terminal 1	4/15/2013 10:09:26	Серегина М. М.	2559	26741	Свекла мытая фас. г	29.9
5 Shop 1	POS terminal 1	4/15/2013 10:09:26	Серегина М. М.	2559	46658	Кефир Снежок плен	19.7
6 Shop 1	POS terminal 1	4/15/2013 10:09:26	Серегина М. М.	2559	25573	Пакет для завтрака	11.4

Figure 8.1—13 Viewing data from the POS terminal and the video of event

2. Left-click the line with the required event (Figure 8.1—13, 1).
3. As a result data from the POS terminal by event (Figure 8.1—13, 2) and video events (Figure 8.1—13, 3) are displayed in the provided windows.

Window for viewing the video by event is a standard *Intellect* video surveying window that is open in the archive mode. One can view the archive not only by the current event but also by other events.

Note 1. Working with video surveying window in the archive mode is given in details in Intellect software package. Operator's guide.

Note 2. Video can not be displayed (it depends on whether the requirements for Web server and/or Client realization are performed – see the Requirements for Report System realization section).

Note 3. The view of displayed data from the POS terminal and video events can be changed by selecting the needed layout (see Selecting layouts in POS reports section).

8.1.2.3 Exporting the video

The video recording segment is exported using the playback control panel.

Choose “Export” in the functions menu of the video surveillance window and then select “Save Recording to AVI” (see Figure 8.1—14).

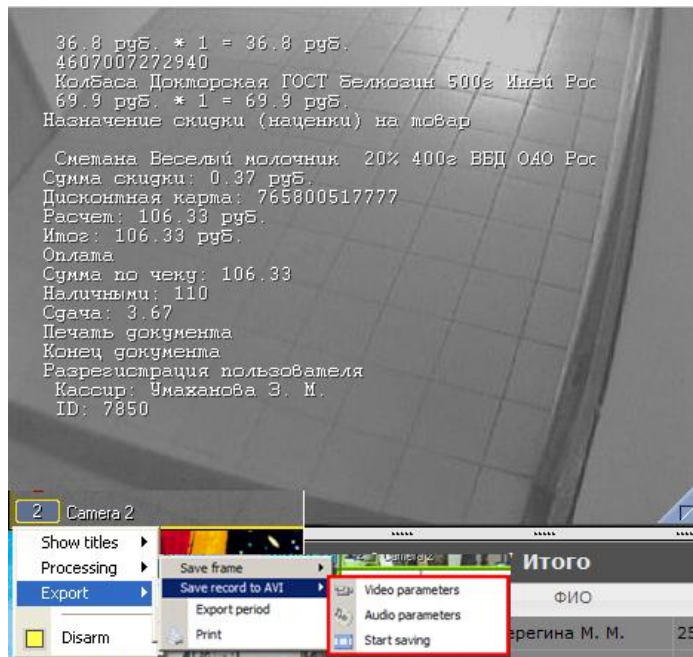


Figure 8.1—14 Video export

Parameters of the video and audio, which will be saved, may be configured in the displayed window. As soon as recording saving parameters are selected, the video segment may be exported to the file by selecting the “Start Saving” command (exporting the video is given in details in the Export of Silent Video Recordings section in Intellect software package. Operator’s guide).

On default, exporting the video is performed to the *My documents\Export* folder.

8.1.2.4 Disabling titles in the video surveying window

To disable titles in the video surveying window, do the following:

1. Choose “Show titles” in the functions menu of the video surveillance window (see Figure 8.1—15).

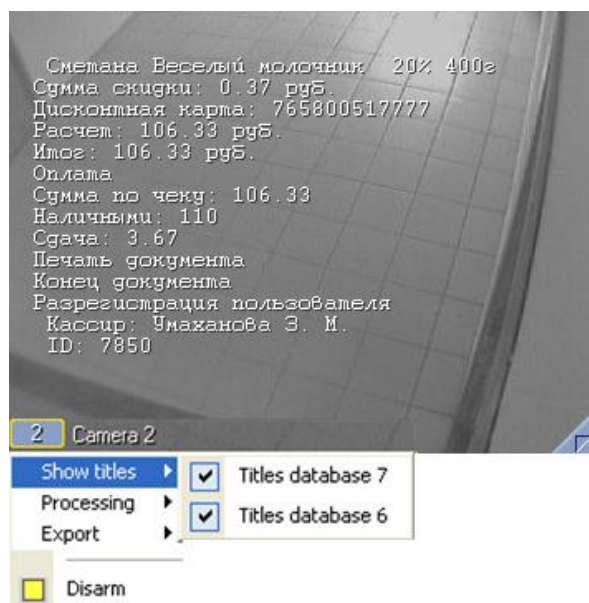


Figure 8.1—15 Show titles

2. In the displayed list of available titles databases select those from which titles are to be received.
3. To disable titles from some titles database left-click the line with the required titles database.

8.1.2.5 Changing the event status

Attention! For this operation the user should be added to the POS expert role.

In order to change the event status, do the following:

1. Display a detailed report (Figure 8.1—16).

The screenshot displays a POS system interface. At the top, there are navigation tabs: 'AUTO reports', 'General reports', 'People Counter detectors', 'POS reports', 'Queue Length detectors', and 'Time and Attendance reports'. Below the tabs, a navigation path is shown: 'Navigation: POS reports > Report by cashier > General report > Detailed report'. A 'Print' button is visible. The main area shows a receipt for cashier 'Сереегина М. М.' with receipt number '2559'. The receipt details include: 'Чек: 2559', 'Дата: 25.05.10', 'Время: 21:22:33', 'Кассир: Сереегина М. М.', 'ID: 7965'. A list of items follows, such as 'Хлеб Славя с фруктами в нар. 300г хлебозавод Арнаут Россия 49605' and 'Мороженое Сахарная трубочка крен-бриоле в шок.глаз. 70г Хладокомбинат Россия 43256'. Below the receipt, there is a table titled 'Events: Назначение скидки (наценки) на товар / Total'. The table has columns: Price, Quantity, Total, Receipt total, Cash, Change, Previous status, Status, Operator, and Status update. The table contains several rows of event data, with one row highlighted in red and a dropdown menu open over the 'Status' column, showing options like 'Event not processed', 'Non-violation', 'Possibly violation', 'Minor violation detected', 'Moderate violation detected', and 'Serious violation detected'.

Figure 8.1—16 Changing the event status

2. Left-click in the **Status** field. As a result the list of available statuses is displayed.
3. Left-click on the required status. In the appeared window confirm the status changing by clicking **OK** (Figure 8.1—17).

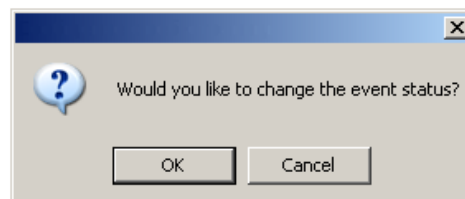


Figure 8.1—17 Confirmation of event status changing

8.1.2.6 Viewing the history of event status changing

In order to view the history of event status changing, do the following:

1. Display a detailed report (Figure 8.1—18).

POS reports Time and Attendance reports											
Navigation: POS reports > Report by cashier > General report > Detailed report											
Events: Calculation / Total											
Store	POS	Date/time	Full Name	Receipt num	Receipt total	Cash	Chan	Previous status	Status	Oper: Status update	
1	Shop №1	POS- terminal	11/15/2011 1:19:29	Jonson K.	1511	85.6	100	14.4	Event not proce	Serious violation dete	rs 11/5/2011 10
2	Shop №1	POS- terminal	11/15/2011 1:19:33	Smith G.	1892	85.6	100	14.4	Event not processed	—	—
3	Shop №1	POS- terminal	11/15/2011 1:19:38	Anderson H.	1546	85.6	100	14.4	Event not proce	Non-violation	rs 11/5/2011 10
4	Shop №1	POS- terminal	11/15/2011 1:19:42	Walsh L.	1905	85.6	100	14.4	Possibly violati	Minor violation detec	rs 11/5/2011 10
5	Shop №1	POS- terminal	11/15/2011 1:19:46	Walsh L.	1098	85.6	100	14.4	Event not processed	—	—

Figure 8.1—18 Status update

2. Left-click the link in the **Status update** field where the date and time of last status changing is displayed (if there is any status for event).
3. As a result the **History of event status changing** page appears where the following data is displayed: status name, name of operator who gave the status, and time of status change (Figure 8.1—19).

History of event status changing			
	Status name	Operator's name	Time of status change
1	Minor violation detected	rs	2011/11/05 10:25:05 AM
2	Possibly violation	rs	2011/11/05 10:20:02 AM

Figure 8.1—19 History of event status changing

8.2 Working with Time and Attendance reports

Working with Time and Attendance reports consists of three stages:

1. Selecting a type of report.
2. Creating a report.
3. Viewing a report.

8.2.1 Selecting a type of Time and Attendance report

In order to select a type of Time and Attendance report click on **Time and Attendance reports** link in *Report System* menu (Figure 8.2—1).

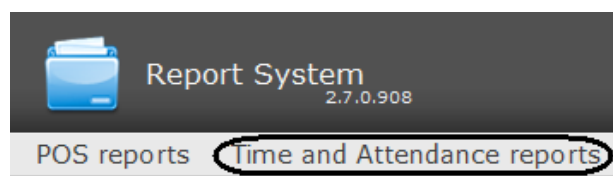


Figure 8.2—1 Switch to selecting a type of Time and Attendance reports

As a result the list of available Time and Attendance reports is displayed (Figure 8.2—2). For switching to the required report click the corresponding link.

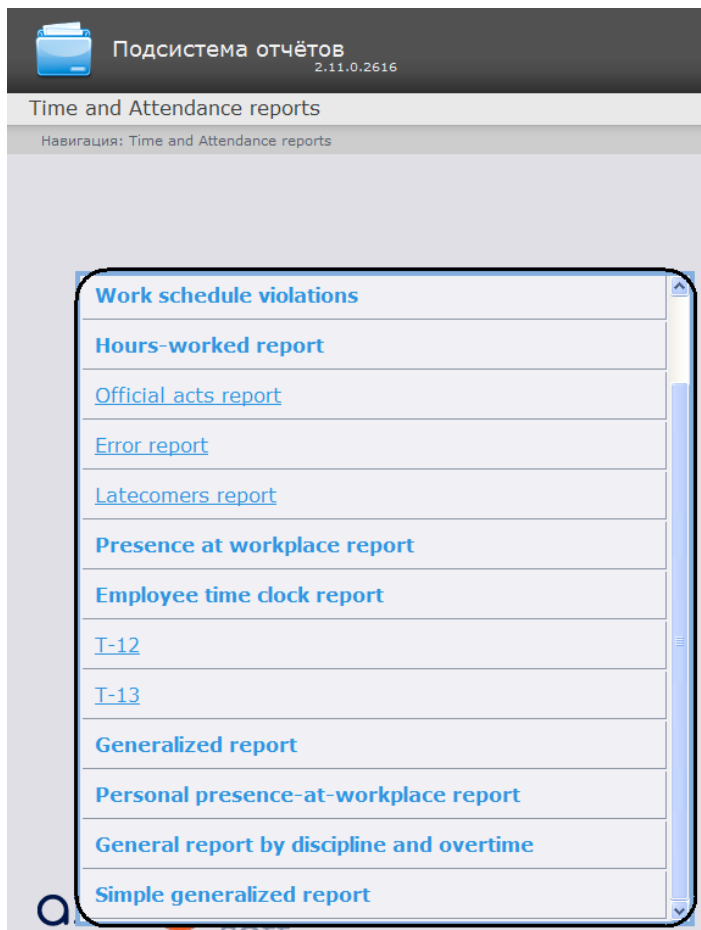


Figure 8.2—2 List of available Time and Attendance reports

Note. List of links for switching to Time and Attendance reports is available when hovering over the **Time and Attendance reports** link in the report menu (Figure 8.2—3).

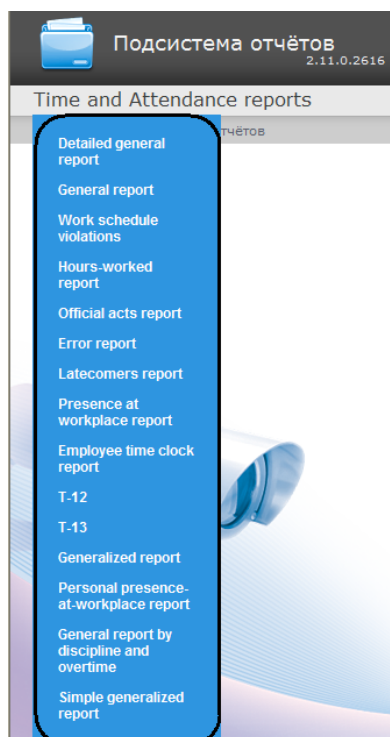


Figure 8.2—3 Access to the list of Time and Attendance reports in the report menu

8.2.2 Creating a Time and Attendance report

In order to create a Time and Attendance report, do the following:

1. Select a Time and Attendance report in one way (see *Selecting a type of Time and Attendance report* section).
2. Set required values to the parameters that are necessary for displaying the report of selected type (Figure 8.2—4 , 1).

Generalized report 1

Parameter	Value
Department / subdivision:	Department 1
Employee:	[all]
Short-form report:	<input checked="" type="checkbox"/>
Period:	User defined from 11/04/2011 to 11/04/2011

Execute 2

Figure 8.2—4 Creating a Time and Attendance report

Note. Figure 8.2—4 illustrates the parameters of a *Generalized report*.

Set of parameters depends on the type of Time and Attendance report. Description of parameters used for creating reports is given in the table (Table 8.2—1).

Table 8.2—1 Parameters for creating a Time and Attendance report

Parameter	Description	Used in reports
<div style="border: 1px solid gray; padding: 2px;"> Area: Region 1 </div>	Used for selecting the area by which data is displayed in the report	<ul style="list-style-type: none"> ▪ Detailed general report ▪ General report ▪ Presence in the workplace report ▪ Personal presence-at-workplace report
<div style="border: 1px solid gray; padding: 2px;"> Period: Current date and time </div>	Used for setting the period by which the report is displayed	Used in all reports
<div style="border: 1px solid gray; padding: 2px;"> Department / subdivision: Department 1 </div>	Used for selecting the department or subdivision by which the report is displayed	<ul style="list-style-type: none"> ▪ Work schedule violations ▪ Hours-worked report ▪ Official acts report ▪ Error report ▪ Latecomers report ▪ Presence in the workplace report ▪ Employee time clock report ▪ T-12 ▪ T-13 ▪ Generalized report
<div style="border: 1px solid gray; padding: 2px;"> Show entrances/exits: <input type="checkbox"/> </div>	When the checkbox is checked then entrances/exits points are displayed in the report	<ul style="list-style-type: none"> ▪ Presence in the workplace report ▪ Personal presence-at-workplace report

Parameter	Description	Used in reports
<input type="checkbox"/> Only working area:	When the checkbox is checked then the data only by working area is displayed in the report	<ul style="list-style-type: none"> ▪ Presence in the workplace report ▪ Personal presence-at-workplace report
<input type="text" value="[all]"/> Employee:	Used for selecting the employee by whom the report is displayed	<ul style="list-style-type: none"> ▪ Generalized report ▪ Personal presence-at-workplace report
<input checked="" type="checkbox"/> Short-form report:	Some fields are hidden when the checkbox is checked	<ul style="list-style-type: none"> ▪ Presence in the workplace report ▪ Generalized report ▪ Personal presence-at-workplace report

3. Click **Execute** (Figure 8.2—4, 2).

As a result a report is created and displayed.





8.2.3 Viewing a Time and Attendance report


8.2.3.1 Time and Attendance report toolbar

The toolbar on the top of a page is used for report navigating, scaling the displayed page and Time and Attendance report exporting (Figure 8.2—5).



Figure 8.2—5 Time and Attendance report toolbar

In order to switch to the previous and next report page click  and  correspondingly (Figure 8.2—5, 1). In order to go back to the first report page click . In order to go to the last report page click .

Report System allows exporting the created Time and Attendance report to computer. For this one should select a format in which the report is exported and click  (Figure 8.2—5, 2).

Zooming in/out the displayed page is performed through the choosing the required scale in the list (Figure 8.2—5, 3).

8.2.3.2 Detailed general report

A *detailed general report* presents the information about the presence of staff in the area with details by employees. The report contains the information about the number of people in the department, the number of employees in the area when the report is made and the number of employees in the area when the report is made in % (Figure 8.2—6).

Navigation: [Time and Attendance reports](#) > [Detailed general report](#) > Result

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Date: 03.07.2012
Time: 08:21:01

Selected region: Building

Department	The number of people in the department	The number in the area when the report is made in units	The number in the area when the report is made in %
Department 1	2	2	100.00 %
Lee Ann		+	
Smith John		+	
Total:	2	2	100.00 %

Figure 8.2—6 Detailed general report

Note. The employees that are present in the area when the report is made are marked with "+", those who are absent are marked with "-".

In the **Total** line there is the information about the total number of people in the department, total number of employees present in the area and the percentage of employees in the area when the report is made.

8.2.3.3 General report

A *general report* is a table that contains the information about the number of employees in the department, the number of employees present in the area and the percentage of employees in the area when the report is made (Figure 8.2—7).

Navigation: [Time and Attendance reports](#) > [General report](#) > Result

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Date: 05.06.2012
Time: 08:21:01

Summary report (statistics)

Selected region: Region 1

Department	The number of people in the department	The number in the area when the report is made in units	The number in the area when the report is made in %
Department Employees	3	2	66.67 %
Total:	3	2	66.67 %

Figure 8.2—7 General report

In the **Total** line there is the information about the total number of people in the department, total number of employees present in the area and the percentage of employees in the area when the report is made.

8.2.3.4 Work schedule violations

A *Work schedule violations* report contains the information about the employees that violated the work schedule in the specified time period, the violation type and its duration.

Navigation: [Time and Attendance reports](#) > [Work schedule violations](#) > Result

Date: from 04.06.2012
to 10.06.2012

Violating working regulations

Department: Department Employees

Hood William (Working schedule)

Planned date and time	Actual date and time	Violation type	Duration	Code
04.06.2012 10:00:00	04.06.2012 15:23:46	Coming late	07:23:46	
Total by day			07:23:46	
05.06.2012 10:00:00	05.06.2012 08:11:36	Leaving earlier	09:48:24	
Total by day			09:48:24	
06.06.2012 10:00:00		Absence	10:00:00	
Total by day			10:00:00	
07.06.2012 10:00:00		Absence	10:00:00	
Total by day			10:00:00	
08.06.2012 10:00:00		Absence	10:00:00	
Total by day			10:00:00	

Total by employee	Amount	Duration
Coming late	1	07:23:46
Time of absence	0	00:00:00
Leaving earlier	1	09:48:24
Absence	3	30:00:00
Underworking	0	00:00:00

Figure 8.2—8 Work schedule violations

Report fields are described in the table (Table 8.2—2).

Table 8.2—2 Fields of a Work schedule violations report

Field name	Description
Planned date and time	Planned duration of a workday for the specified date
Actual date and time	Date and time when violation was registered
Violation type	Type of registered violation
Duration	Violation duration

In the report there are separate tables with information about total amount of violations by employee, department and report as a whole.

8.2.3.5 Hours-worked report

An *Hours-worked report* is a table that contains the information about the time worked by the department staff in the specified time period with details by employees (Figure 8.2—9).

Time and Attendance reports

Navigation: [Time and Attendance reports](#) > [Hours-worked report](#) > Result

Page 1 from 1 PDF 100%

Date: from 04.06.2012 to 10.06.2012

Hours worked

Department: Department Employees

Full Name	Time of presence	Working time	Time of absence	Night time	Overtime
Holmes Sherlock	00:00:00	00:00:00	50:00:00	00:00:00	00:00:00
Hood William	17:30:32	03:30:32	46:29:28	00:00:00	14:00:00
John Johnes	17:29:24	03:29:24	46:30:36	00:00:00	14:00:00
Total by department:	34:59:56	06:59:56	143:00:04	00:00:00	28:00:00

Total by report

Total by report:	34:59:56	06:59:56	143:00:04	00:00:00	28:00:00
-------------------------	-----------------	-----------------	------------------	-----------------	-----------------

Figure 8.2—9 Hours-worked report

Report fields are described in the table (Table 8.2—3).

Table 8.2—3 Fields of a House-worked report

Field name	Description
Full name	Full name of an employee
Time of presence	Time that was spent in the workplace. If time of presence is more than planned working hours for specified period then the field is marked red
Working time	Time that was spent in the workplace according to the work plan (schedule)
Time of absence	Difference between the planned work hours and time of presence in the workplace
Night time	Time that was worked at night
Overtime	Time that was worked overtime

The sum by each report field is calculated in the **Total by department** line.

8.2.3.6 Official acts report

An *Official acts report* contains the information about “non-guilty” and overtime documents that were made by employees in the specified time period (Figure 8.2—10).

Date: from 01.06.2012 to 30.06.2012

Documents report

Department: Department Employees

Hood William

Date	Document number	Document code	Document description	
03.06.2012	1	1	medical certificate	
Total by employee		Amount	Vouchers	Overtime
From 01.06.2012 to 30.06.2012		1	1	0

John Johnes

Date	Document number	Document code	Document description	
07.06.2012	2	1	order	
Total by employee		Amount	Vouchers	Overtime
From 01.06.2012 to 30.06.2012		1	0	1

Total by department		Amount	Vouchers	Overtime
From 01.06.2012 to 30.06.2012		2	1	1

Total by report		Amount	Vouchers	Overtime
From 01.06.2012 to 30.06.2012		2	1	1

Figure 8.2—10 Documents report

Report fields are described in the table (Table 8.2—4).

Table 8.2—4 Fields of a Document report

Field name	Description
Date	Date of document creation
Document number	Document number given in Time and Attendance program module
Document code	Document code given in Time and Attendance program module
Document description	Document name

In the report there are separate tables with information about total amount of documents by employee, department and report as a whole.

8.2.3.7 Error report

An *Error report* contains the information about employees' erroneous passages (Figure 8.2—11).

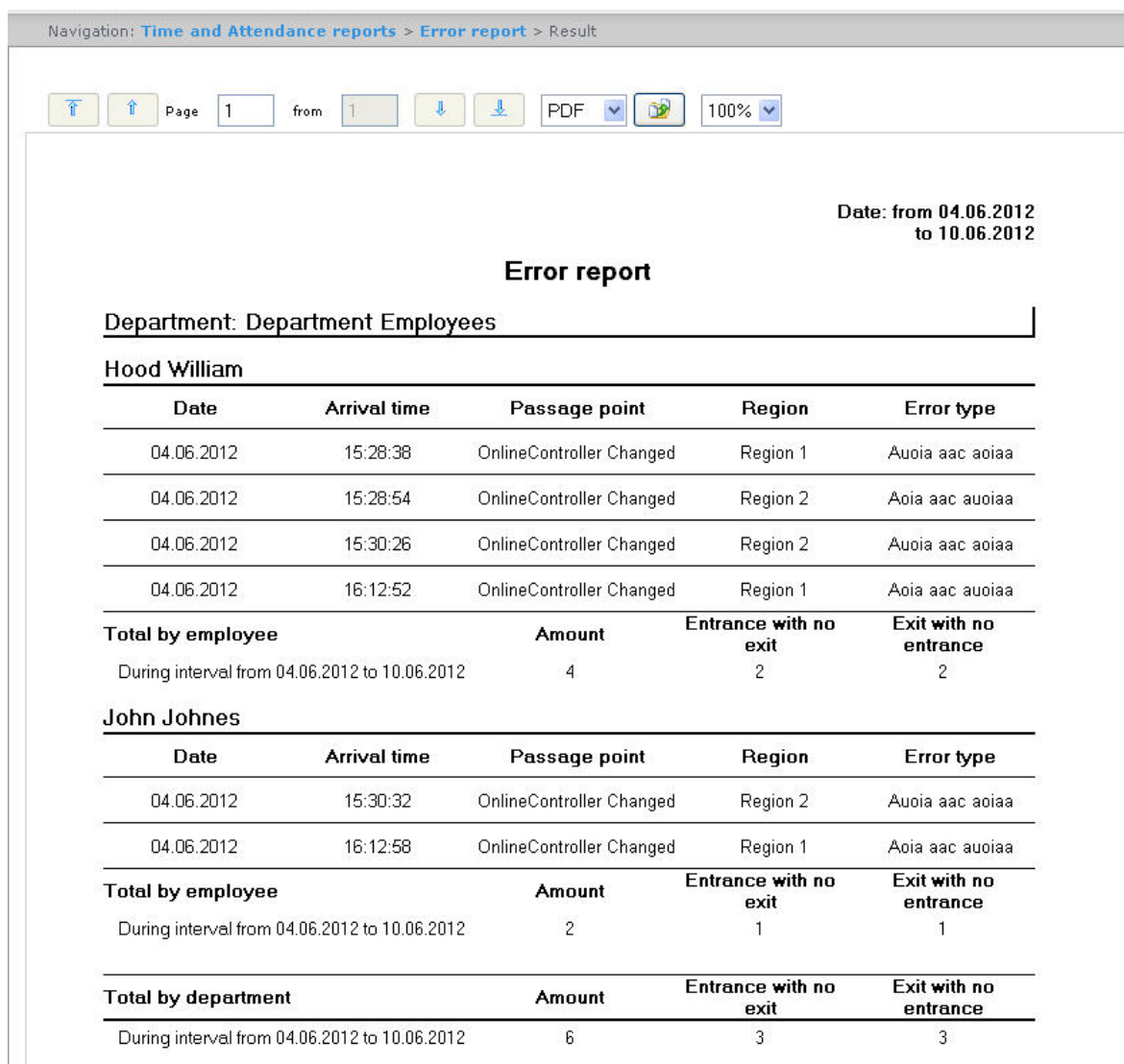


Figure 8.2—11 Error report

Report fields are described in the table (Table 8.2—5).

Table 8.2—5 Fields of an Error report

Field name	Description
Date	Date when an error was registered
Arrival time	Time when there was a passage to the region that caused an error
Passage point	Name of a passage point
Region	Name of a region where an error was registered
Error type	Type of a registered error

In the report there are separate tables with information about total amount of errors by employee, department and report as a whole.

8.2.3.8 Latecomers report

A *Latecomers report* contains the information about how late an employee came and how much time he underworks for every day of a specified period (Figure 8.2—12).

Navigation: [Time and Attendance reports](#) > [Latecomers report](#) > Result

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Report by late-comers ("leaving earlier")
 Period: 04.06.2012 - 10.06.2012

Department: Department Employees

Employee number	Full Name	Time of coming late/underworking						
		04.06.2012	05.06.2012	06.06.2012	07.06.2012	08.06.2012	09.06.2012	10.06.2012
35	Holmes Sherlock	No exit	No exit	No exit	No exit	No exit		
11	Hood William	7:23:46 / 0:00:00	0:00:00 / 9:48:24	0:00:00 / 0:00:00	0:00:00 / 0:00:00	0:00:00 / 0:00:00		
12	John Johnes	7:24:30 / 0:00:00	0:00:00 / 9:48:32	0:00:00 / 0:00:00	0:00:00 / 0:00:00	0:00:00 / 0:00:00		

Figure 8.2—12 Latecomers report

Note. Minimal time period for which the report can be displayed is one week.

8.2.3.9 Presence in the workplace report

A *Presence in the workplace report* contains the information about periods when an employee left a specified region during a day and how long an employee was in a selected region for a specified period (Figure 8.2—13).

Date: from 04.06.2012
to 10.06.2012

Presence at workplace

Department: Department Employees

Hood William

Working schedule

Arrived	Left	Region	Entrance point	Exit point	Time of presence
6/4/2012 3:23:46 PM	6/4/2012 3:28:54 PM	Region 1	Entrance	Exit	0:05:08
6/4/2012 3:30:26 PM	6/5/2012 7:55:18 AM	Region 1	Entrance	Exit	16:24:52
6/5/2012 8:11:36 AM		Region 1	Entrance	Exit	
6/4/2012 3:28:38 PM	6/4/2012 4:12:52 PM	Region 2	Entrance	Exit	0:44:14
6/5/2012 7:55:18 AM	6/5/2012 8:11:36 AM	Region 2	Entrance	Exit	0:16:18

Total by employee: 17:30:32

John Johnes

Working schedule

Arrived	Left	Region	Entrance point	Exit point	Time of presence
6/4/2012 3:24:30 PM	6/4/2012 3:28:36 PM	Region 1	Entrance	Exit	0:04:06
6/4/2012 3:30:32 PM	6/5/2012 7:55:24 AM	Region 1	Entrance	Exit	16:24:52
6/5/2012 8:11:28 AM		Region 1	Entrance	Exit	
6/4/2012 3:28:36 PM	6/4/2012 4:12:58 PM	Region 2	Entrance	Exit	0:44:22
6/5/2012 7:55:24 AM	6/5/2012 8:11:28 AM	Region 2	Entrance	Exit	0:16:04

Total by employee: 17:29:24

Figure 8.2—13 Presence in the workplace report

Report fields are described in the table (Table 8.2—6).

Table 8.2—6 Fields of a Presence in the workplace report

Field name	Description
Arrived	Date and time of an employee's passage to a region
Left	Date and time of an employee's leaving a region
Entrance point	Name of an entrance point to a region
Exit point	Name of an exit point to a region
Region	Region name
Time of presence	Difference between the passage and leaving time

Total time of an employee's presence in the workplace for a specified period is displayed in the **Total by employee** line.

Note. If the **Сокращенный вид** checkbox was set then the report consists only of the **Total by employee** lines.

8.2.3.10 Employee time clock report

An *Employee time clock report* contains the information about employee's arrival and leaving for every day of the specified period (Figure 8.2—14).

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2.11.0.2616

Time and Attendance reports

Навигация: [Time and Attendance reports](#) > [Employee time clock report](#) > Result

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Arrival-Leaving report
Period: 07.10.2013 - 13.10.2013

Department: **Department Clients**

Personnel number	Full Name	Position	Time of arrival/leaving							
			07.10.2013	08.10.2013	09.10.2013	10.10.2013	11.10.2013	12.10.2013	13.10.2013	
	Client2									
1001	Smith Jhon	Manager	10:51:24 / 10:55:37	12:51:47 / 17:35:30						

Department: **Department Employees**

Personnel number	Full Name	Position	Time of arrival/leaving							
			07.10.2013	08.10.2013	09.10.2013	10.10.2013	11.10.2013	12.10.2013	13.10.2013	
	Employee 1									

Figure 8.2—14 Employee time clock report

Note. Minimal time period for which the report can be displayed is one week.

If the **Expanded** checkbox is set the view of the *Employee time clock report* will be the following:

Time and Attendance reports

Навигация: [Time and Attendance reports](#) > [Employee time clock report](#) > Result

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Arrival-Leaving report
Period: 07.10.2013 - 13.10.2013

Department: **Department Clients**

Personnel number	Full Name	Position	Time of arrival/leaving							
			Time of presence			Hours worked				
			07.10.2013	08.10.2013	09.10.2013	10.10.2013	11.10.2013	12.10.2013	13.10.2013	
	Client2		09:30 / 18:32	09:15 / 19:07						
1001	Smith Jhon	Manager	09:54 / 08:35	09:54 / 07:20						

Department: **Department Employees**

Personnel number	Full Name	Position	Time of arrival/leaving							
			Time of presence			Hours worked				
			07.10.2013	08.10.2013	09.10.2013	10.10.2013	11.10.2013	12.10.2013	13.10.2013	
	Employee 1									

Figure 8.2—15 Expanded view of Employee time clock report

8.2.3.11 T-12 and T-13 reports

Report System allows create T-12 and T-13 reports that represent time and attendance reports.

In T-12 and T-13 reports the information on worked time for every calendar day in a month is given. Also in T-12 and T-13 reports the total of worked hours (days) in a month and number of absences from work

Time and Attendance reports

Navigation: [Time and Attendance reports](#) > [Generalized report](#) > Result

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Generalized report

Date, day of the week	Arrival	Leaving	Hours worked	Exiting the building (number)	Exiting the building (duration)	Voucher	Overworking/underworking balance	Hours planned
Department Employees								
manager, Hood William								
Mon 04.06.2012 r.	15:23:46		9:18:56	2	0:-42:-42	1	+0/-0:41:04	10:00:00
Tue 05.06.2012 r.		8:11:36	8:11:36	2	0		+0/-1:48:24	10:00:00
Wed 06.06.2012 r.			0	0	0		+0/-10:00:00	10:00:00
Thu 07.06.2012 r.			0	0	0		+0/-10:00:00	10:00:00
Fri 08.06.2012 r.			0	0	0		+0/-10:00:00	10:00:00
Sat 09.06.2012 r.			0	0	0		+0/0	0
Sun 10.06.2012 r.			0	0	0		+0/0	0
Total			17:30:32	4	0:-42:-42		+0/-32:29:28	50:00:00
Total for month			17:30:32	4	0:-42:-42		+0/-32:29:28	50:00:00
engineer, John Johnes								
Mon 04.06.2012 r.	15:24:30		9:17:56	2	0:-42:-26		+0/-0:42:04	10:00:00
Tue 05.06.2012 r.		8:11:28	8:11:28	2	0		+0/-1:48:32	10:00:00
Wed 06.06.2012 r.			0	0	0		+0/-10:00:00	10:00:00
Thu 07.06.2012 r.			0	0	0	1	+0/-10:00:00	10:00:00
Fri 08.06.2012 r.			0	0	0		+0/-10:00:00	10:00:00
Sat 09.06.2012 r.			0	0	0		+0/0	0
Sun 10.06.2012 r.			0	0	0		+0/0	0
Total			17:29:24	4	0:-42:-26		+0/-32:30:36	50:00:00

Figure 8.2—18 Generalized report

Report fields are described in the table (Table 8.2—7).

Table 8.2—7 Generalized report fields

Field name	Description
Date, day of the week	Date, day of the week
Arrival	Time of arrival
Leaving	Time of leaving
Hours worked	Hours worked by employee
Leaving the building (number)	Number of leavings out of the building (region)
Leaving the building (duration)	Time when the employee is absent in the region
Explanation	Explanations made by employee
Overworking/underworking balance	Time of overwork/underwork
Hours planned	Planned workday duration

Note. Short form of the report contains the following fields:

1. Date, day of the week.

2. Hours worked.
3. Overworking/underworking balance.
4. Hours planned.

8.2.3.13 Personal presence-at-workplace report

Personal presence-at-workplace report contains the information about periods when an employee visited and left a specified region during a day and how long an employee was in a selected region for a specified period ().

Navigation: [Time and Attendance reports](#) > [Personal presence-at-workplace report](#) > Result

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Date: from 27.11.2012 to 27.11.2012

Presence at workplace

Region: Region 1

Department: Department 1

User 1 Working schedule

Arrived	Left	Region	Entrance point	Exit point	Time of presence
11/27/2012 6:20:44 PM	11/27/2012 6:26:54 PM	Region 1	Entrance	Exit	0:06:10
11/27/2012 6:26:54 PM	11/27/2012 6:26:59 PM	Region 1	Entrance	Exit	0:00:05
11/27/2012 6:26:59 PM		Region 1	Entrance	Exit	
11/27/2012 6:18:09 PM	11/27/2012 6:26:23 PM	Region 2	Entrance	Exit	0:08:14
11/27/2012 6:26:23 PM	11/27/2012 6:26:54 PM	Region 2	Entrance	Exit	0:00:31
11/27/2012 6:26:59 PM	11/27/2012 6:26:59 PM	Region 2	Entrance	Exit	0:00:00
Total by employee:					0:15:00

Figure 8.2—19 Personal presence-at-workplace report

Report fields are described in the table (Table 8.2—8).

Table 8.2—8 Fields of a Personal presence-at-workplace report

Field name	Description
Arrived	Date and time of an employee's passage to a region
Left	Date and time an employee's leaving a region
Region	Name of visited region
Entrance point	Name of an entrance point to a region
Exit point	Name of an exit point to a region
Time of presence	Difference between the passage and leaving time

Note. In the short form of the report the information about entrances and exits is not displayed. Only the total time of employee's presence in the selected regions is displayed.

8.2.3.14 General report by discipline and overtime

General report by discipline and overtime is a table that contains information on overtimes and beings late, about working of employee on weekend and holidays during the specified time period(Figure 8.2—18).

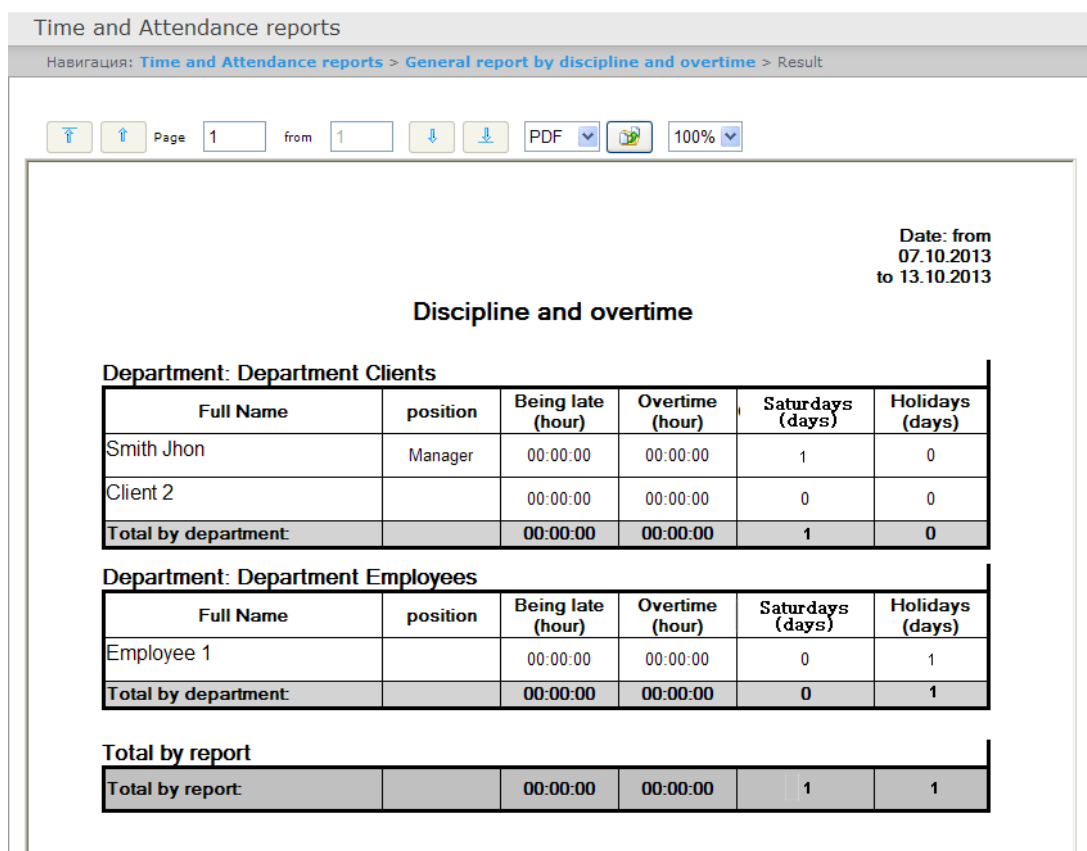


Figure 8.2—20 General report by discipline and overtime

The report fields are described in the following table (Table 8.2—9).

Table 8.2—9 Fields of a General report by discipline and overtime

Field name	Description
Full name	Employee full name
Position	Employee position
Being late (hour)	General time if being late during the specified period (in hours)
Overtime (hour)	General time of overtime during the specified period (in hours)
Saturdays (days)	Number of worked weekend days
Holidays (days)	Number of worked holidays

8.2.3.15 Simple generalized report

Simple generalized report is a table that contains information about worked hours, time of employee arrival and leaving, and information about being late and underwork for each day of the specified period (Figure 8.2—21):

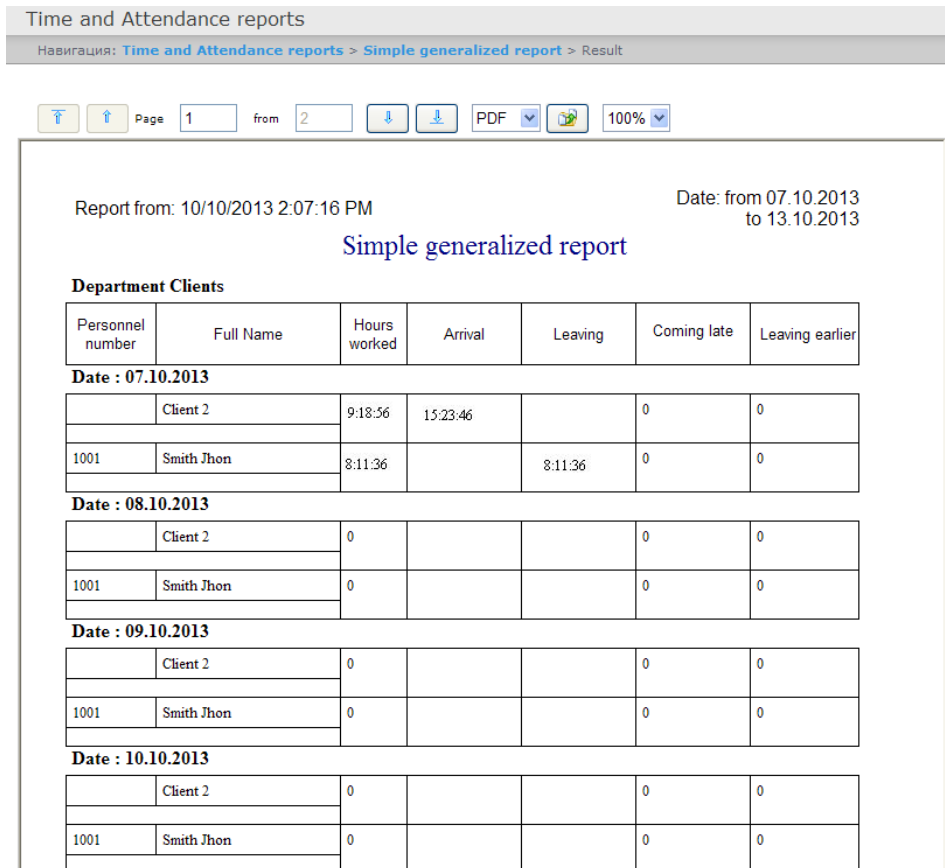


Figure 8.2—21 Simple generalized report

Report fields are described in the table (Table 8.2—10).

Table 8.2—10 Simple generalized report fields

Field name	Description
Personnel number	Employee personnel number
Full name	Employee full name
Hours worked	Hours worked by employee
Arrival	Time of arrival
Leaving	Time of leaving
Coming late	Time of coming late
Leaving earlier	Time on which employee left work earlier

8.3 Working with reports by Queue Length detectors

To create a Queue Length report click **QueueLength detectors** in the report menu of *Report System* (Figure 8.3—1).

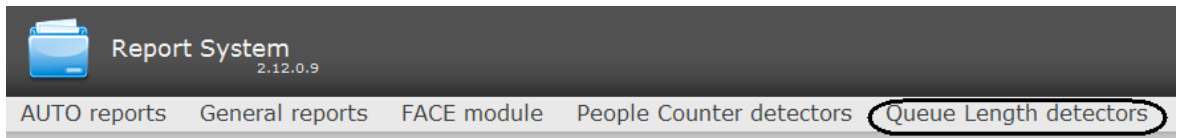


Figure 8.3—1 Going to Queue Length reports

Click **Average queue length in time interval** (Figure 8.3—2).

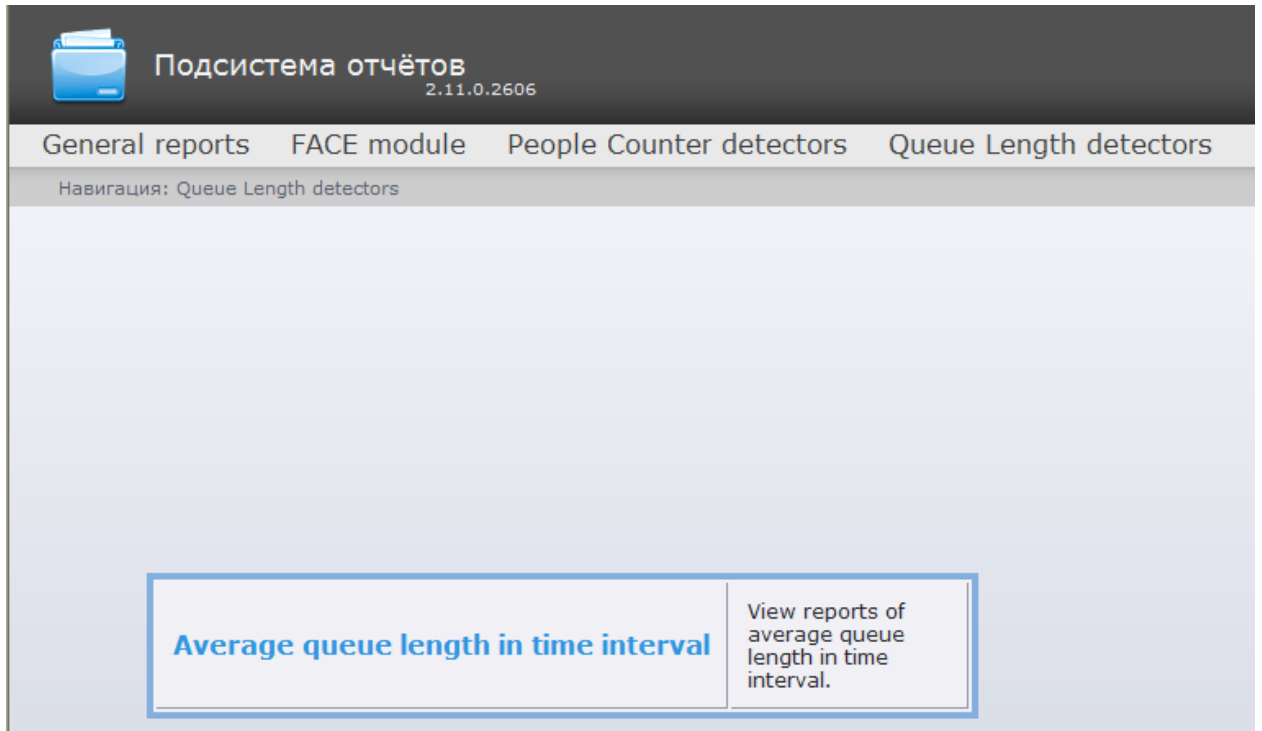


Figure 8.3—2 Selecting an Average queue length in time interval

Note. Link of going to a report of average queue length in time interval is available when cursor is hovered over the **QueueLength detectors** link in the report menu (Figure 8.3—3).

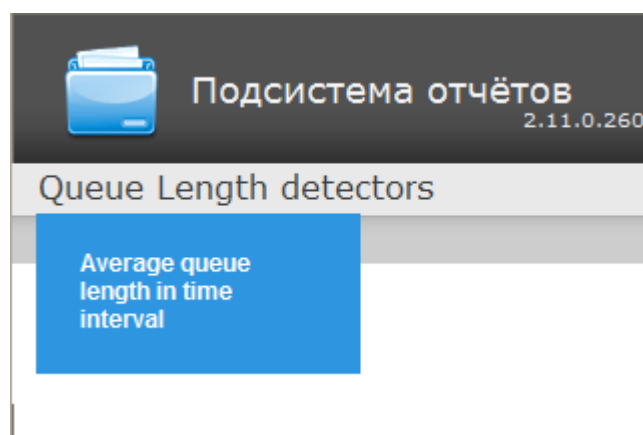


Figure 8.3—3 Access to a report of average queue length in time interval

A page of a report of average queue length in time interval is displayed (Figure 8.3—4).

Average queue length in time interval

Parameter	Value
Time Period:	Last month <input type="button" value="v"/> 1
Step (min.):	60 2
Detectors:	Choose: All , None <input checked="" type="checkbox"/> Queue length detection 1 3
Chart:	<input checked="" type="checkbox"/> 4
<input type="button" value="Execute"/> 5	

Figure 8.3—4 Page of a report of average queue length in time interval

Set the following report parameters:

1. From the **Period** drop-down list select a period of time for which a load report should be created (Figure 8.3—4, 1).
2. Enter a period of time (in minutes) between load values in the **Step (min.)** field (Figure 8.3—4, 2). The average values of queue length for the specified interval are displayed in the report.
Note. If the average value is null the empty report will be displayed for such intervals for the specified period. It is recommended to change the step in this case.
3. In the **Detectors** field set checkboxes in those **Queue length** objects information on which should be displayed in the report (Figure 8.3—4, 3).
4. If it is necessary to view a report as a chart, set the corresponding checkbox (Figure 8.3—4, 4).

To create a report click **Execute** (Figure 8.3—4, 5).

As a result a report of average queue length in time interval with specified parameters is displayed (Figure 8.3—5).

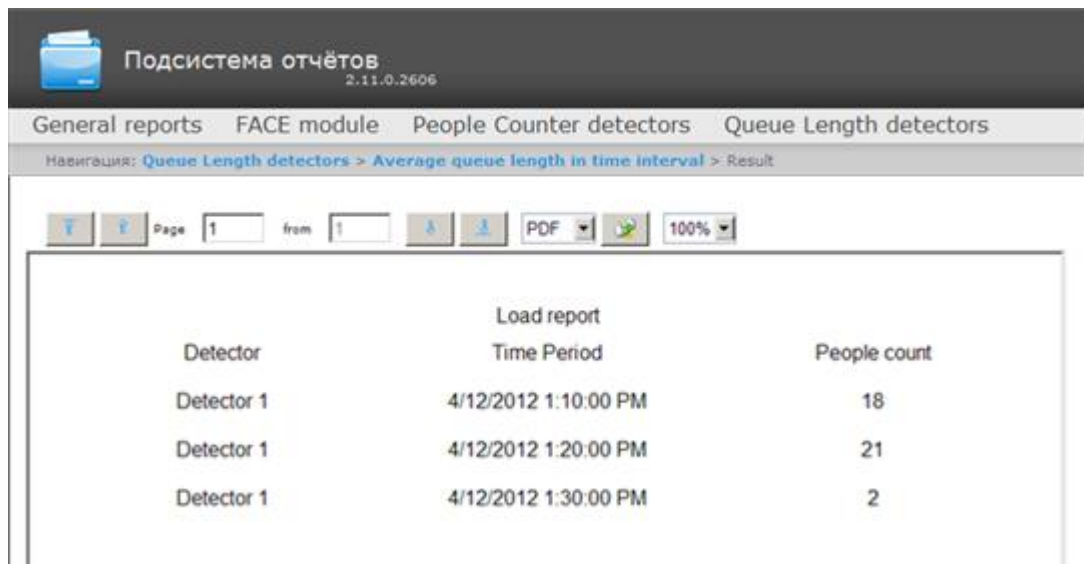


Figure 8.3—5 Report of average queue length in time interval

Note. Example of a report of average queue length in time interval as a chart is given in Figure 8.3—6.

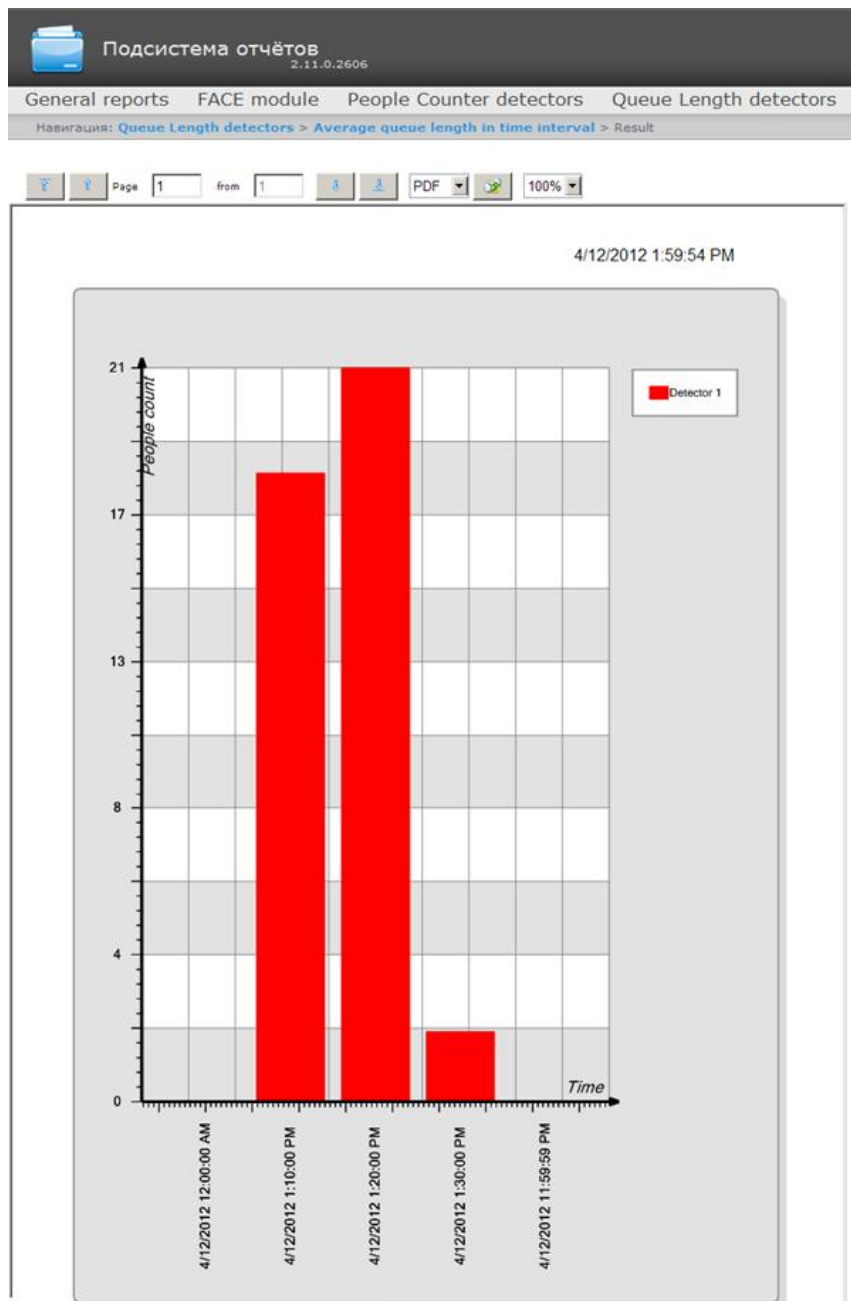


Figure 8.3—6 Report of average queue length in time interval as a chart

8.4 Working with reports by People Counter detectors

8.4.1 Selecting a type of reports by People Counter detector

It is possible to create the following reports by data of people counter detector:

1. Average number of people in time interval. This report allows getting data about the people quality for the selected time period. Data can be presented as a table and chart.
2. Entering/Exiting People Count report. This report allows getting data about the number of entering/exiting people. Data can be presented as a table and chart.

To select a type of report by people counter detectors click **People Counter detectors** link in the report menu of *Report System* (Figure 8.5—1).

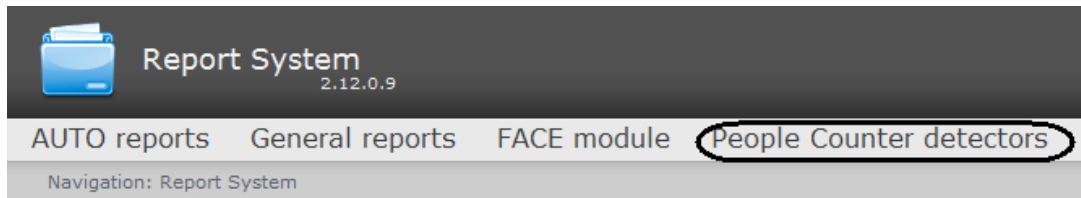


Figure 8.4—1 Switch to selecting a type of reports by people counter detectors

As a result the list of available reports by people counter detectors is displayed (Figure 8.5—2). For switching to the required report click the corresponding link.

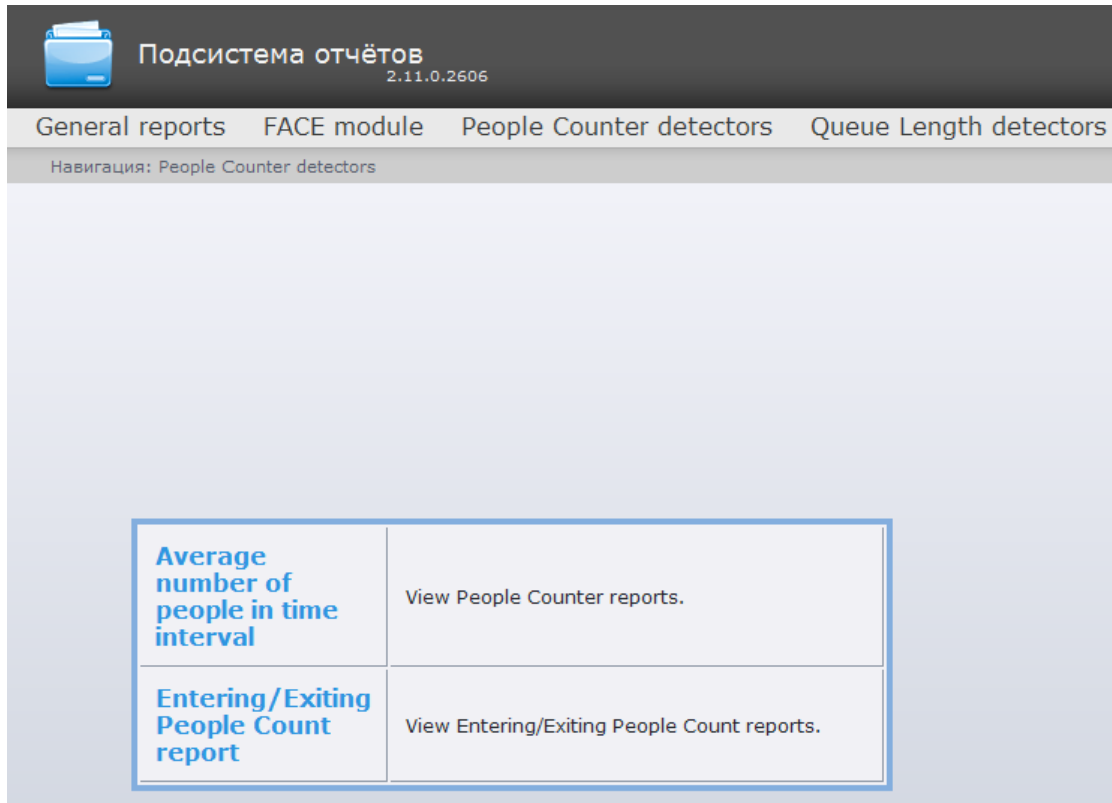


Figure 8.4—2 List of available reports

Note. List of links for switching to reports by people counter detectors is available when hovering over the *People Counter detectors* link in the report menu (Figure 8.5—3).

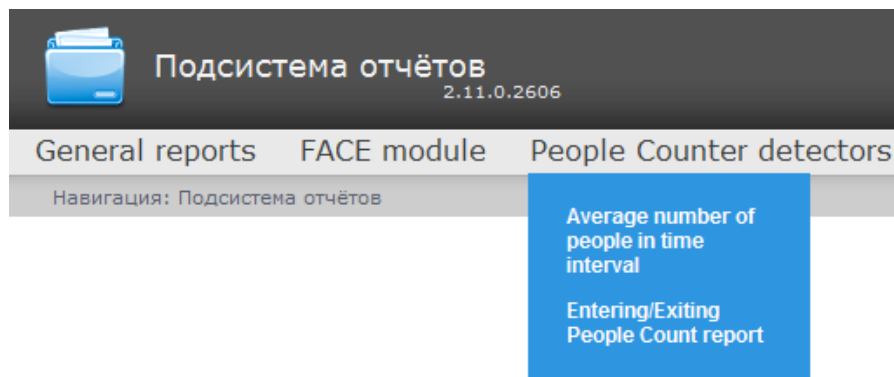


Figure 8.4—3 Access to the list of reports by People Counter detectors in the reports menu

8.4.2 Creating a report of average number of people in time interval

In order to create a report of average number of people in time interval, do the following:

1. Select the **Average number of people in time interval** type (see *Selecting a type of reports by People Counter detector* section).
2. As a result the dialog box for specifying the report parameters will be displayed (Figure 8.4—4).

Parameter	Value
Time Period:	Last month 1
Step (min.):	60 2
MaxValue:	For whole period 3

Choose: All, None

4

Detectors:

- People counter detection 1

Chart: 5

Execute 6

Figure 8.4—4 Average number of people in time interval

Set the following report parameters:

1. From the **Period** drop-down list select a period of time for which a People counter report should be created (Figure 8.4—4, 1).
2. Enter a period of time (in minutes) between amount values in the **Step (min.)** field (Figure 8.4—4, 2). The average values of people amount for the specified interval are displayed in the report.
Note. If the average value is null the empty report will be displayed for such intervals for the specified period. It is recommended to change the step in this case.
3. From the **Max value** drop-down list select a maximum value of people that will be displayed in a chart (Figure 8.4—4, 3).
4. In the **Detectors** field set checkboxes in those **People counter** objects information on which should be displayed in the report (Figure 8.4—4, 4).
5. If it is necessary to view a report as a chart, set the corresponding checkbox (Figure 8.4—4, 5).
6. To create a report click **Execute** (Figure 8.4—4, 6).

Procedure of working the people counter detector for creation the report of average number of people in time interval is follows:

1. The basic data are events about enter and exit sorted by time.
2. Do the previous calculations to create the “Number of people at a time” function:
 - 2.1 During the specified period the “current number of people” in the zone is calculated at a time. Depending on the people entering or exiting the basic data is increasing or reducing by one.
 - 2.2 If the “current number of people” takes the negative value on the next step (the number of exiting people from the area is more than number of entering people to this area), the “current number of people” is set to zero. Also, the “current number of people” is set to zero every day at 2 a.m. (on default) or after the time (in minutes) past midnight specified as PeopleCounterZeroPointMinute key in C:\Program Files\Intellect\Modules\Wt2\Web.config file.
 For example, the string
 add key=“PeopleCounterZeroPointMinute” value=“60”
 means that the people counter is set to zero in 60 minutes past midnight.
 - 2.3 If there are no events about entering or exiting to the defined time, the “current number of people” remains unchanged.
3. For every interval calculate the average number of people being in the area. “Average number of people for the interval” is calculated as the average value of “Number of people at a time” function at a time.

As a result a report of average number of people in time interval with specified parameters is displayed (Figure 8.4—5).

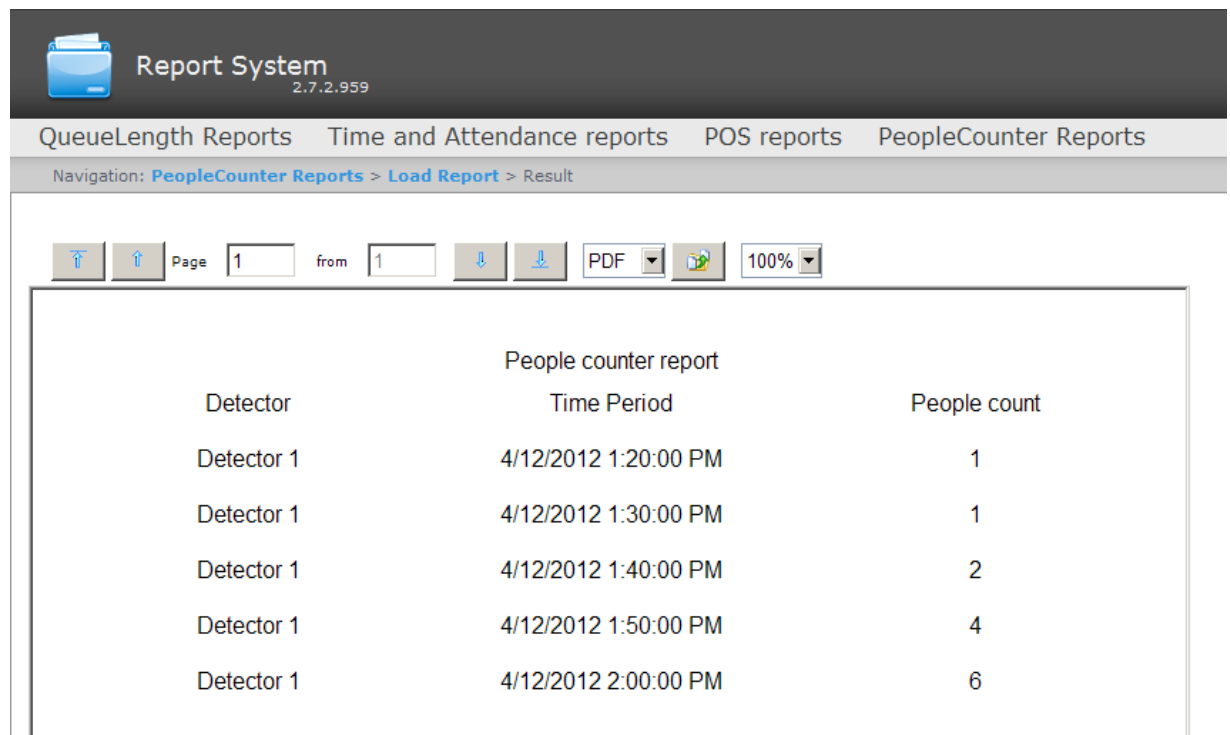


Figure 8.4—5 Average number of people in time interval

Note. Example of a report of average number of people in time interval as a chart is given in Figure 8.4—6.

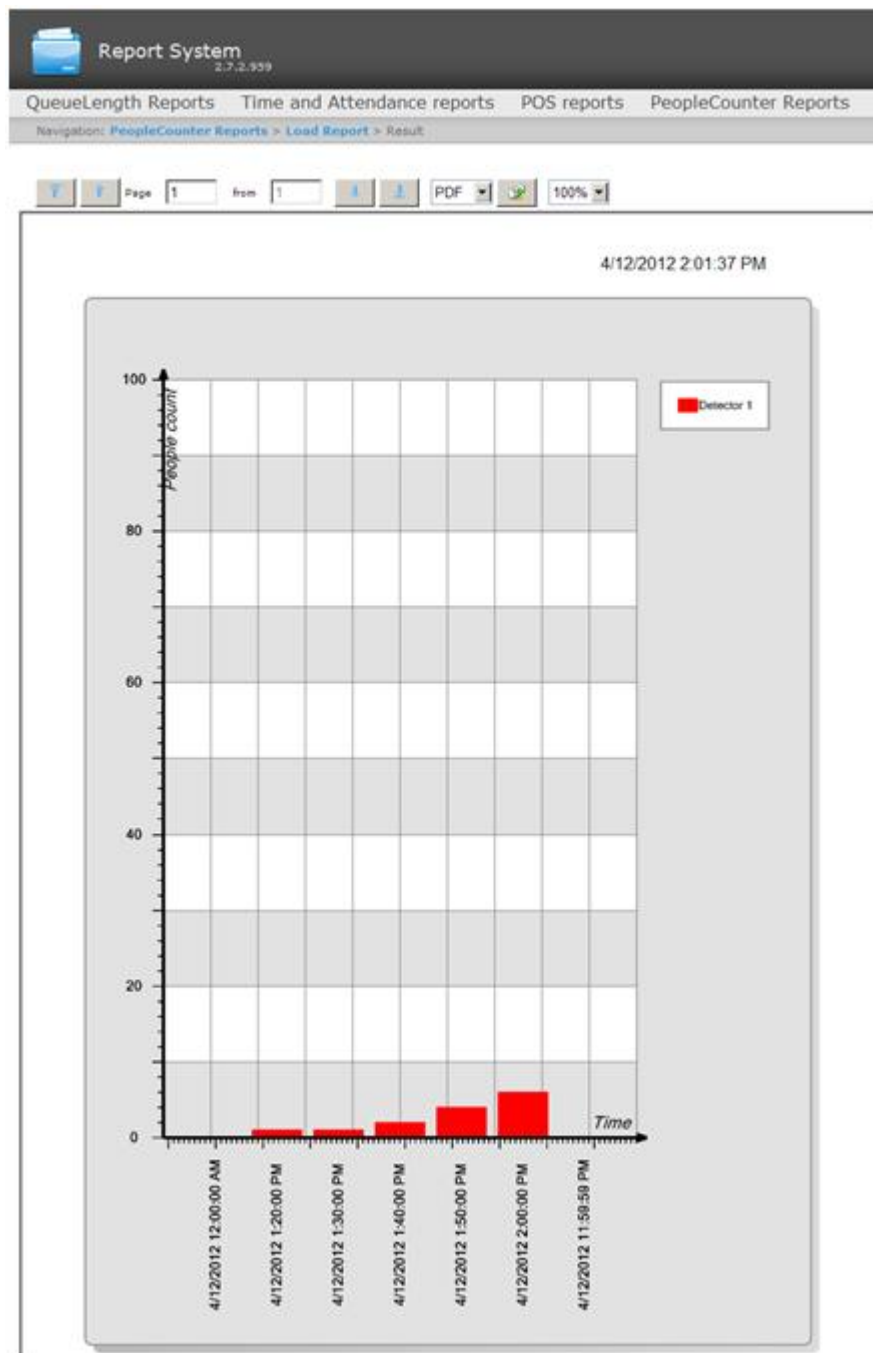



Figure 8.4—6 Average number of people in time interval as a chart

8.4.3 Creating an Entering/Exiting People Counter report

In order to create an Entering/Exiting People Counter report, do the following:

1. Select the **Entering/Exiting People Counter report** type (see *Selecting a type of reports by People Counter detector* section).
2. As a result the dialog box for specifying the report parameters will be displayed (Figure 8.4—7).


Подсистема отчётов
2.11.0.2606

General reports FACE module People Counter detectors

Навигация: [People Counter detectors](#) > Entering/Exiting People Count report

Entering/Exiting People Count report

Parameter	Value
Person's actions:	Entry <input type="button" value="v"/> 1
Time Period:	Last month <input type="button" value="v"/> 2
Step (min.):	60 3
MaxValue:	For whole period <input type="button" value="v"/> 4
Detectors:	Choose: All, None <div style="border: 1px solid #ccc; padding: 5px; margin-top: 5px;"> <input checked="" type="checkbox"/> People counter detection 1 </div> 5
Chart:	<input checked="" type="checkbox"/> 6

7

Figure 8.4—7 Entering/Exiting People Counter report

Set the following report parameters:

1. From the **Person's actions** drop-down list select a value on which the report is to be created (Figure 8.4—7, 1).
2. From the **Receiving data period** drop-down list select a period of time for which a People counter report should be created (Figure 8.4—7, 2).
3. Enter a period of time (in minutes) between amount values in the **Step (min)** field (Figure 8.4—7, 2).
4. From the **Maximum value** drop-down list select a maximum value of people that will be displayed in a chart (Figure 8.4—7, 3).
5. In the **Detectors** field set checkboxes in those **People counter** objects information on which should be displayed in the report (Figure 8.4—7, 4).
6. If it is necessary to view a report as a chart, set the corresponding checkbox (Figure 8.4—7, 5).
7. To create a report click **Execute** (Figure 8.4—7, 6).

Entering/Exiting people counting is performed by summation of “enter”/ “exit” events at every interval.

As a result an Entering/Exiting People Counter report with specified parameters is displayed (Figure 8.4—8).

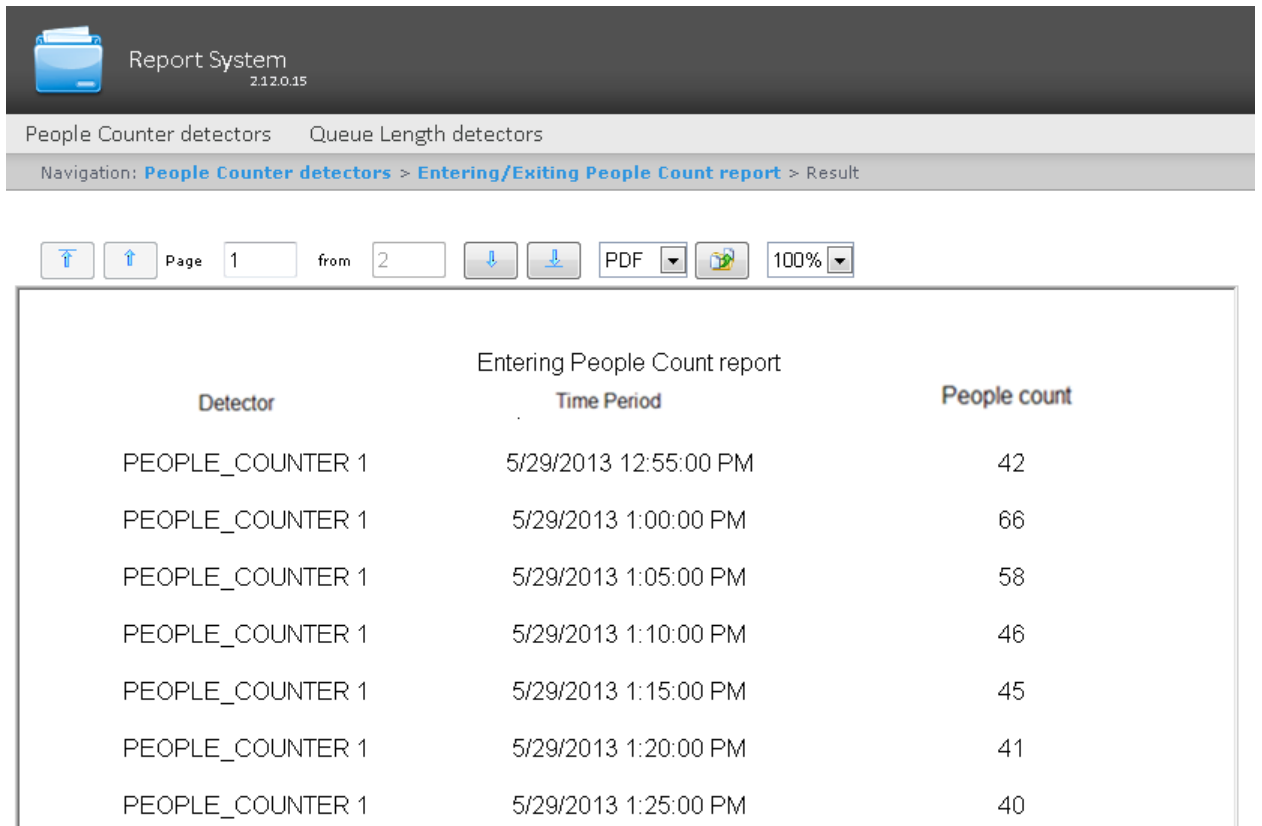


Figure 8.4—8 Entering/Exiting People counter report

Note. Example of a Entering/Exiting People counter report as a chart is given in на Figure 8.4—9.

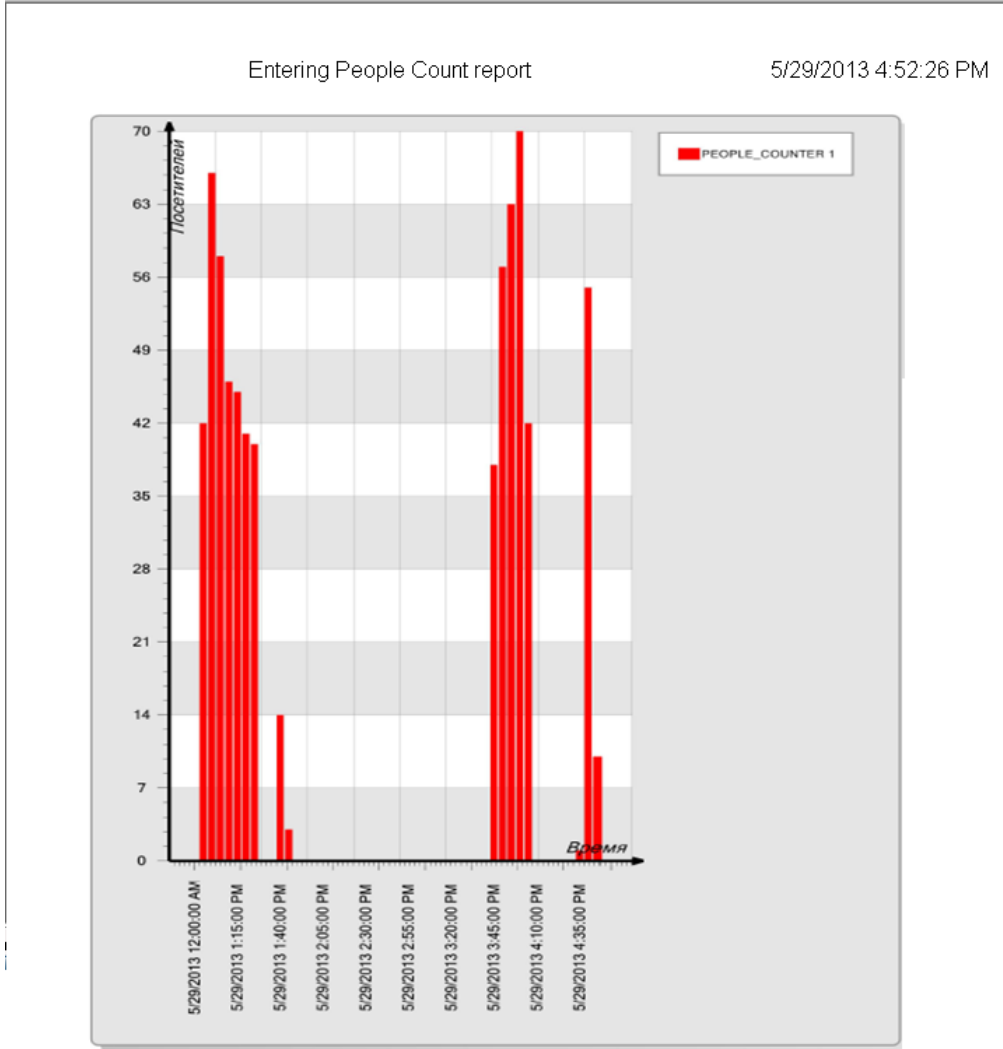


Figure 8.4—9 Entering/Exiting People counter report as a chart

8.5 Working with AUTO reports

Working with AUTO reports consists of the following steps:

1. Selecting a type of report.
2. Creating a report.

Navigating, scaling the displayed page and AUTO report exporting are performed by analogy with *Time and Attendance* reports using the toolbar on the top of a page (see *Time and Attendance report toolbar* section).

8.5.1 Selecting a type of Auto report

It is possible to create the following reports on *Auto-Intellect* software data:

3. «Time slice» on zone. This report allows getting data about the average speed of vehicle moving, range and density of traffic, occupation of the specified lane for the selected time period. Time period is specified within the accuracy of a day. Data can be presented as a table and chart.
4. «Slice» on group. This report allows getting data about the average speed of vehicle moving, range and density of traffic, occupation of several lanes for the fixed point of time. Time interval is specified within the accuracy of a minute. Data can be presented as a table and chart.
5. Traffic statistics by vehicles type. This report allows getting statistical data for each specified type of vehicles. Vehicle type is a set of vehicles the sizes of which are in certain intervals.
6. Traffic statistics by vehicles groups. This report allows getting statistical data for each specified group of vehicles. Vehicles group is a set of several vehicles types.

«Time slice» on zone and «Slice» on group reports refer to **Traffic Detector** and **Vehicle Processor** modules (the corresponding modules are to be created in the *Intellect* software package).

Traffic statistics by vehicles type and **Traffic statistics by vehicles groups** reports refer to **Vehicle Detector** module (the corresponding module is to be created in the *Intellect* software package).

To select a type of Auto report click **Auto Reports** link in the report menu of *Report System* (Figure 8.5—1).

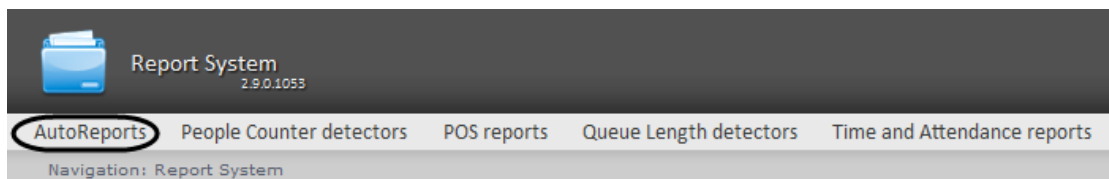


Figure 8.5—1 Switch to selecting a type of Auto reports

As a result the list of available Auto reports is displayed (Figure 8.5—2). For switching to the required report click the corresponding link.

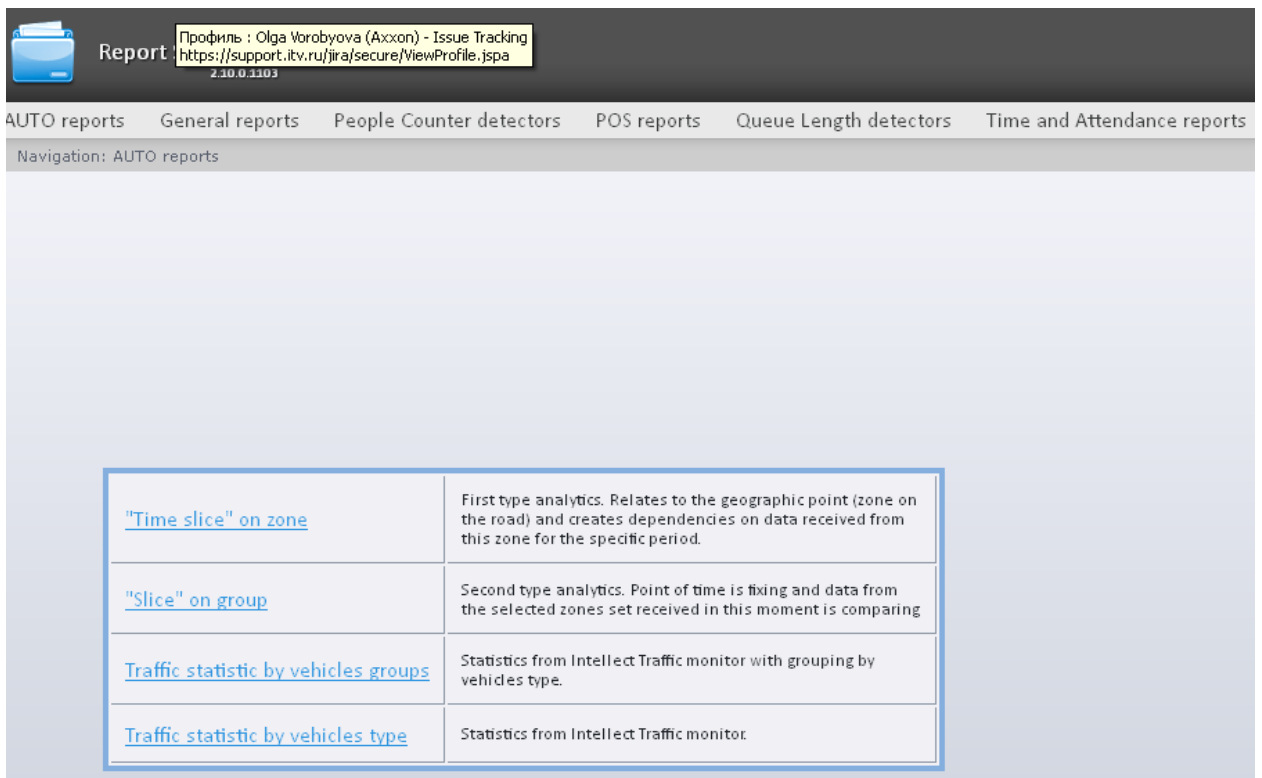


Figure 8.5—2 List of available Auto reports

Note. List of links for switching to Auto reports is available when hovering over the **Auto reports** link in the report menu (Figure 8.5—3).

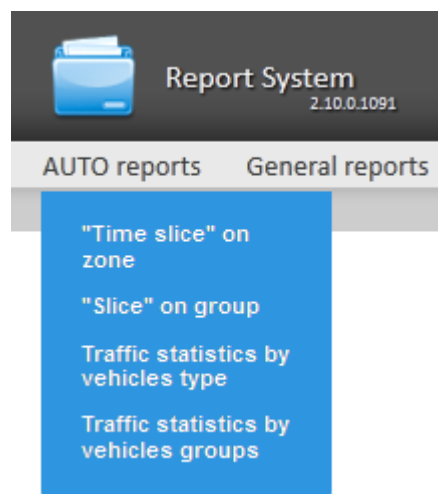


Figure 8.5—3 Access to the list of Auto reports in the reports menu

8.5.2 Creating a «Time slice» on zone

In order to create a «Time slice» on zone, do the following:

1. Select the **«Time slice» on zone** type of Auto reports (see *Selecting a type of Auto report* section).
2. As a result the dialog box for specifying the report parameters will be displayed (Figure 8.5—4).

Navigation: [AutoReports](#) > "Time slice" on zone

"Time slice" on zone

Parameter	Value
Period:	1 User defined 2 from 10/02/2012 to 10/02/2012
Averaging interval, min.:	3 60
Data source (zone or detector):	4 Область[ZONE] 1
Report's content:	5 Chart+Table
Title:	6 "Time slice" on zone
View average speed data:	7 <input checked="" type="checkbox"/>
View volume data:	8 <input checked="" type="checkbox"/>
View density data:	9 <input checked="" type="checkbox"/>
View Occupancy data:	10 <input checked="" type="checkbox"/>

Execute 11

Figure 8.5—4 Setting parameters of «time slice»


3. Specify parameters of «time slice» in the following way:
 - 3.1 From the **Period**: drop-down list select the time period for which the report is to be created (Figure 8.5—4, 1).
 - 3.2 If the **User defined** period is selected, enter the date of start and end periods for which the report is to be created in the **from** and **to** fields using the **Calendar** tool (Figure 8.5—4, 2). Click the  button near the corresponding field to use the **Calendar** tool (**Error! Reference source not found.**).

Figure 8.5—5 Specifying the start of time period using the Calendar

- If another period type is selected, specifying the date of start and end periods is not needed.
- 3.3 In the **Averaging interval, min** enter the time period corresponding to the interval in which points on the chart and values in the table will follow (Figure 8.5—4, 3). The average values for the specified averaging interval are displayed in the report.

Note. If the average value is null the empty report will be displayed for such intervals for the specified period. It is recommended to change the interval in this case.
 - 3.4 From the **Data source (zone or detector)** drop-down list select the **Region** object corresponding to the lane on which the report is to be created (Figure 8.5—4, 4).
 - 3.5 From the **Report's content** drop-down list select the way of report displaying: table and/or chart (Figure 8.5—4, 5).
 - 3.6 In the **Title** field enter the report name which is to be displayed (Figure 8.5—4, 6).

- 3.7 Set the **View average speed data** checkbox to include the data about average speed on the selected lane (Figure 8.5—4, 7).
 - 3.8 Set the **View volume data** checkbox to include the data about vehicle numbers on the lane for the specified time period (Figure 8.5—4, 8).
 - 3.9 Set the **View density data** checkbox to include the data about vehicle numbers per kilometer on the specified lane (Figure 8.5—4, 9).
 - 3.10 Set the **View Occupancy data** checkbox to include the data about percent of lane occupancy (Figure 8.5—4, 10).
4. Click Execute to create the report (Figure 8.5—4, 11).

As a result the report in the selected form is displayed (Figure 8.5—6).

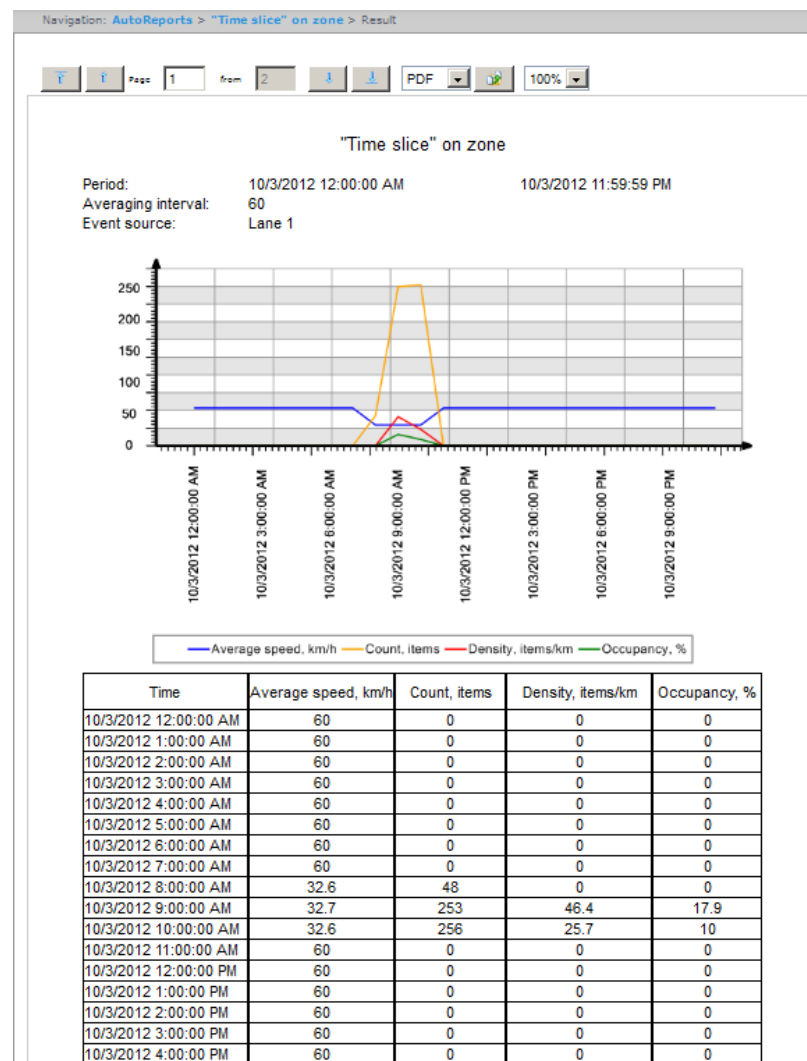


Figure 8.5—6 Example of «Time slice» on zone

8.5.3 Creating a «Slice» on group

In order to create a «Slice» on group, do the following:

1. Select the **«Slice» on group** type of Auto reports (see *Selecting a type of Auto report* section).
2. As a result the dialog box for specifying the report parameters will be displayed (Figure 8.5—7).

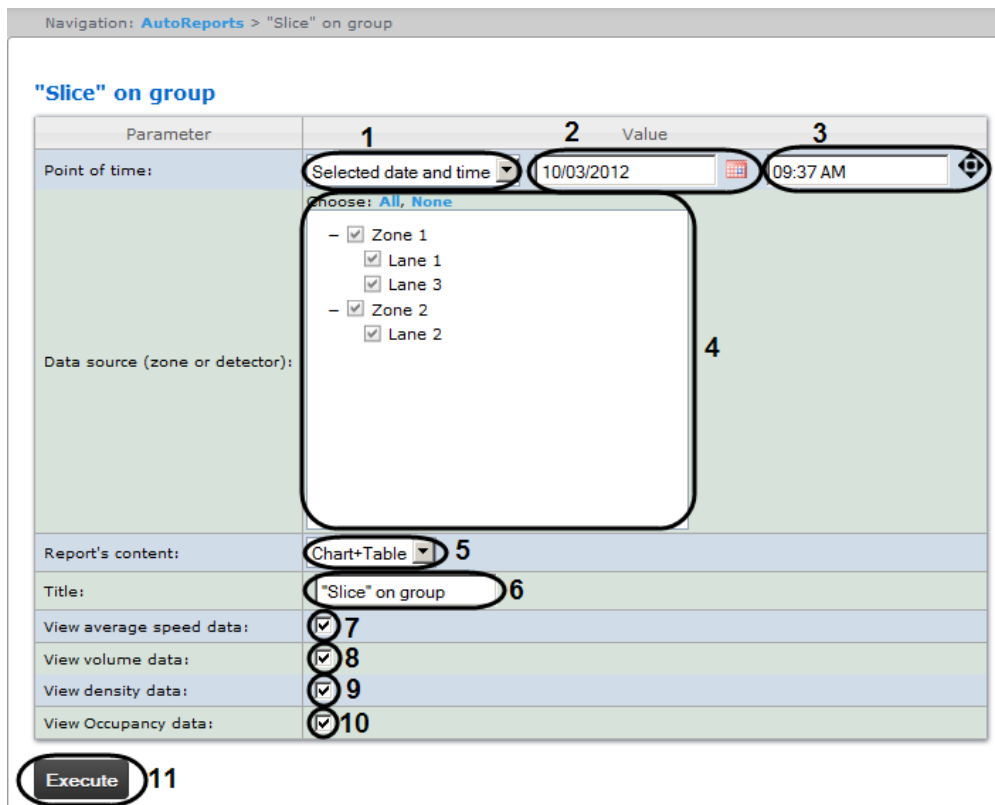



Figure 8.5—7 Setting parameters of «Slice» on group

3. Specify parameters of «Slice» on group in the following way:
 - 3.1 From the **Point of time:** drop-down list select the mode of specifying the slice moment: select the **Current date and time** if the report is to be created on the current moment or **Selected date and time** if the report is to be created on the specified point of time (Figure 8.5—7, 1).
 - 3.2 If the **Selected date and time** mode was selected, enter the date when the report is to be created using the **Calendar** tool in the (Figure 8.5—7, 2) field and date of report in the (Figure 8.5—7, 3) field. Click the  button near the corresponding field to use the **Calendar** tool (Figure 8.5—8).

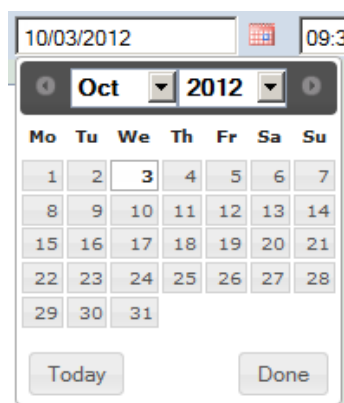


Figure 8.5—8 Specify the date using the Calendar

Note. Click the  button to set the current system date and time as the report time (Figure 8.5—7, 3).

- 3.3 Set checkboxes next to those lanes and/or detectors by which the report is to be created (Figure 8.5—7, 4).

Note. Click the **All** link to select all lanes and detectors in the list. Click the **None** link to uncheck all checkboxes (Figure 8.5—7, 4).

- 3.4 From the **Report's content** drop-down list select the way of report displaying (Figure 8.5—7, 5).
- 3.5 In the **Title** field enter the report name which is to be displayed (Figure 8.5—7, 6).
- 3.6 Set the **View average speed data** checkbox to include the data about average speed on selected lanes (Figure 8.5—7, 7).
- 3.7 Set the **View volume data** checkbox to include the data about vehicle numbers on lanes for the specified time period (Figure 8.5—7, 8).
- 3.8 Set the **View density data** checkbox to include the data about vehicle numbers per kilometer on the specified lanes (Figure 8.5—7, 9).
- 3.9 Set the **View Occupancy data** checkbox to include the data about percent of lanes occupancy (Figure 8.5—4, 10).
4. Click Execute to create the report (Figure 8.5—7, 11).

As a result the report in the selected form is displayed (Figure 8.5—9).

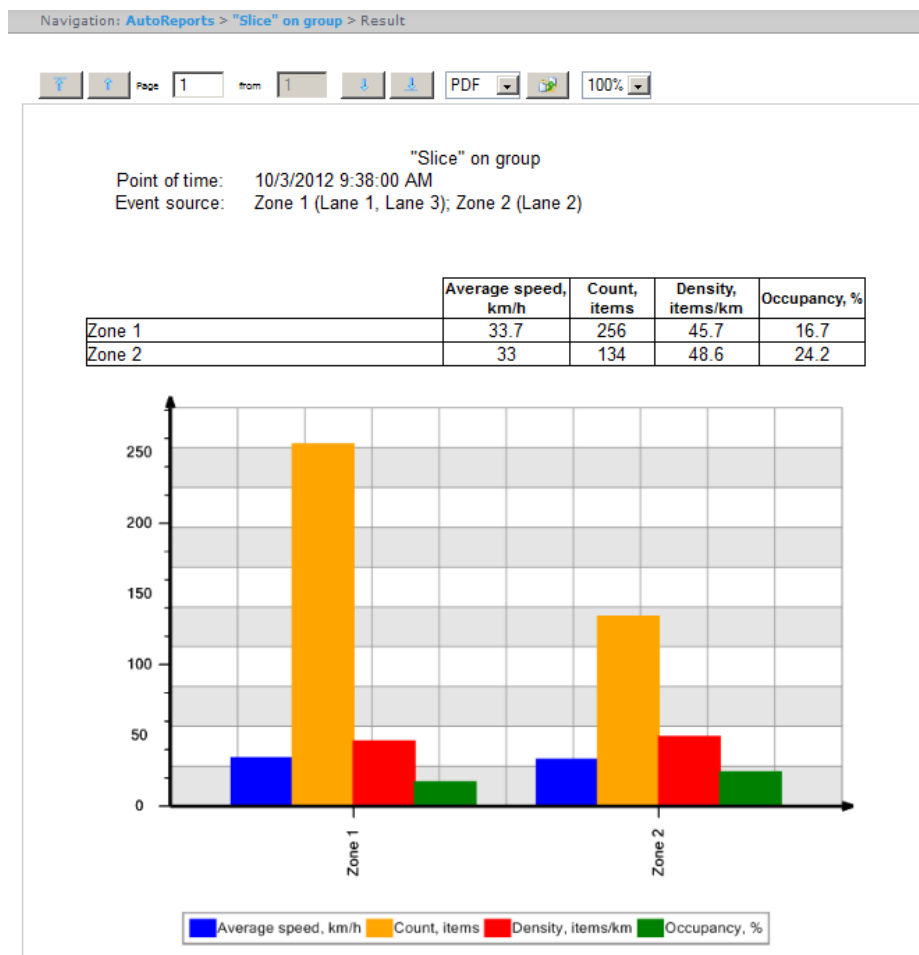


Figure 8.5—9 Example of «Slice» on group

8.5.4 Getting a traffic statistics by vehicles groups

In order to get a traffic statistics, do the following:

1. Select the **Traffic statistics by vehicles groups** type of Auto reports (see *Selecting a type of Auto report* section).

2. As a result the dialog box for specifying the report parameters will be displayed (Figure 8.5—10).


Navigation: **AUTO reports** > Traffic statistic by vehicles groups

Traffic statistic by vehicles groups

Parameter	Value
Period:	<div style="display: flex; align-items: center;"> <div style="border: 1px solid black; border-radius: 50%; padding: 2px 5px; margin-right: 5px;">1</div> <div style="border: 1px solid black; border-radius: 50%; padding: 2px 5px; margin-right: 5px;">2</div> </div> User defined from 02/11/2013 to 02/11/2013
Transport detection:	Traffic Detector 1 3
Lanes:	<div style="border: 1px solid black; border-radius: 15px; padding: 5px;"> Choose: All, None <input type="checkbox"/> Lane0 <input type="checkbox"/> Lane1 <input type="checkbox"/> Lane2 <input type="checkbox"/> Lane3 <input type="checkbox"/> Lane4 <input type="checkbox"/> Lane5 </div> 4
Vehicle groups:	<div style="border: 1px solid black; border-radius: 15px; padding: 5px;"> Choose: All, None <input checked="" type="checkbox"/> Small vehicles <input checked="" type="checkbox"/> Medium vehicles <input checked="" type="checkbox"/> Large vehicles </div> 5
Displayed data:	<div style="border: 1px solid black; border-radius: 15px; padding: 5px;"> Choose: All, None <input checked="" type="checkbox"/> General number of vehicles <input checked="" type="checkbox"/> Average speed km/h <input checked="" type="checkbox"/> Number of violation <input checked="" type="checkbox"/> Speed exceeding <input checked="" type="checkbox"/> Moving in oncoming lane <input checked="" type="checkbox"/> Number of vehicle stops <input checked="" type="checkbox"/> Average workload of road <input checked="" type="checkbox"/> Traffic jam </div> 6

Execute 7

Figure 8.5—10 Setting parameters of Traffic statistic by vehicles groups

3. Specify parameters of Traffic statistics by vehicles groups in the following way:
 - 3.1 In the **Period:** drop-down list select the time period for which the report is to be created (Figure 8.5—10, 1).
 - 3.2 If the **User defined** period is selected, enter the date of start and end periods for which the report is to be created in the **from** and **to** fields using the **Calendar** tool (Figure 8.5—10, 2). Click the  button next to the corresponding field to use the **Calendar** tool (Figure 8.5—11).

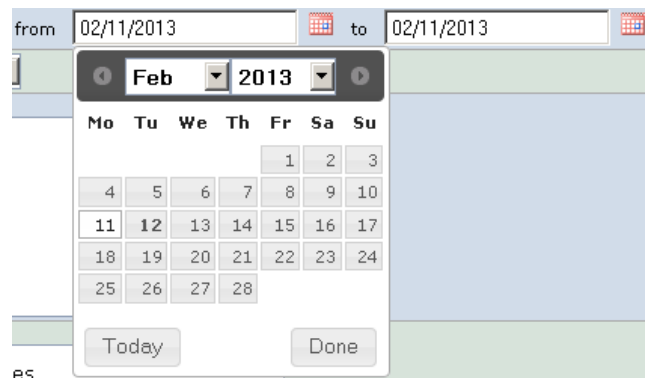


Figure 8.5—11 Specifying the start of time period using the Calendar

If another period type is selected, specifying the date of start and end periods is not needed.

- 3.3 In the **Transport detection** drop-down list select the **Transport detection** object, data of which is to be used to create the report (Figure 8.5—10, 3).
- 3.4 In the **Lanes** list set checkboxes next to those lanes data of which is to be included in the report (Figure 8.5—10, 4).

*Note. In order to select all lanes in the list click the **All** link. To uncheck all checkboxes click the **None** link (Figure 8.5—10, 4).*

- 3.5 In the **Vehicle groups** list set checkboxes in those vehicle groups data of which is to be included in the report (Figure 8.5—10, 5). The following vehicle groups are available:
 - Small vehicles (the group includes cars and motorcycles);
 - Medium vehicles (the group includes vehicles less than 12 m);
 - Large vehicles (the group includes vehicles more than 12 m and buses).

*Note. In order to select all groups in the list click the **All** link. To uncheck all checkboxes click the **None** link (Figure 8.5—10, 5).*

- 3.6 In the **Displayed data** list set checkboxes next to those parameters which are to be included in the report (Figure 8.5—10, 6).

*Note. In order to select all fields in the list click the **All** link. To uncheck all checkboxes click the **None** link (Figure 8.5—10, 6).*

4. Click **Execute** to create the report (Figure 8.5—10, 7).

As a result the report in the selected form is displayed (Figure 8.5—12).

Traffic statistics by vehicles groups

Period: 1/1/2012 12:00:00 AM 12/31/2012 11:59:59 PM
 Data source: Traffic detector 1

Detector/lane/vehicle type	Total vehicles	Average speed, km/h	Violation count	Overspeed	Wrong road side	Stopped vehicles count	Average road occupancy	Traffic jam
Traffic detector 1	15467	66.8	0	0	0	51	9.7	0
Lane 0 (Movement towards the camera)	0	0.0	0	0	0	0	0.0	0
Lane 1 (Movement towards the camera)	2161	37.2	0	0	0	19	7.3	0
Small vehicles	1324	39.7	0	0	0	18	7.1	0
Medium vehicles	609	37.6	0	0	0	1	6.9	0
Large vehicles	228	22.2	0	0	0	0	9.5	0
Lane 2 (Movement towards the camera)	4214	69.1	0	0	0	16	11.4	0
Small vehicles	2513	65.4	0	0	0	10	11.3	0
Medium vehicles	473	79.0	0	0	0	4	11.5	0
Large vehicles	1228	73.0	0	0	0	2	11.5	0
Lane 3 (Movement towards the camera)	4461	57.2	0	0	0	10	9.7	0
Small vehicles	2615	55.7	0	0	0	3	9.9	0
Medium vehicles	1002	69.9	0	0	0	3	9.7	0
Large vehicles	844	46.5	0	0	0	4	9.2	0
Lane 4	4631	87.8	0	0	0	6	9.4	0
Small vehicles	3486	89.4	0	0	0	6	9.5	0
Medium vehicles	678	64.3	0	0	0	0	9.4	0
Large vehicles	467	109.6	0	0	0	0	8.6	0
Lane 5	0	0.0	0	0	0	0	0.0	0



Figure 8.5—12 Traffic statistics by vehicles groups

8.5.5 Getting a traffic statistics by vehicles type

In order to get a traffic statistics by vehicles type, do the following:


1. Select the **Traffic statistics by vehicles groups** type of Auto reports (see *Selecting a type of Auto report* section).
2. As a result the dialog box for specifying the report parameters will be displayed (Figure 8.5—13).

Traffic statistic by vehicles type

Parameter	Value
Period:	1 User defined from <input type="text" value="02/11/2013"/>  to <input type="text" value="02/11/2013"/>  2
Transport detection:	Traffic Detector 1 3
Lanes:	4 <div style="border: 1px solid black; padding: 5px;"> Choose: All, None <input type="checkbox"/> Lane0 <input type="checkbox"/> Lane1 <input type="checkbox"/> Lane2 <input type="checkbox"/> Lane3 <input type="checkbox"/> Lane4 <input type="checkbox"/> Lane5 </div>
Types of vehicles:	5 <div style="border: 1px solid black; padding: 5px;"> Choose: All, None <input checked="" type="checkbox"/> Motorcycles <input checked="" type="checkbox"/> Cars <input checked="" type="checkbox"/> Cargo vehicles less than 12 m <input checked="" type="checkbox"/> Cargo vehicles more than 12 m <input checked="" type="checkbox"/> Busses </div>
Displayed data:	6 <div style="border: 1px solid black; padding: 5px;"> Choose: All, None <input checked="" type="checkbox"/> General number of vehicles <input checked="" type="checkbox"/> Average speed km/h <input checked="" type="checkbox"/> Number of violation <input checked="" type="checkbox"/> Speed exceeding <input checked="" type="checkbox"/> Moving in oncoming lane <input checked="" type="checkbox"/> Number of vehicle stops <input checked="" type="checkbox"/> Average workload of road <input checked="" type="checkbox"/> Traffic jam </div>

Execute 7

Figure 8.5—13 Setting parameters of Traffic statistic by vehicles type

3. Specify parameters of Traffic statistics by vehicles type in the following way:
 - 3.1 In the **Period:** drop-down list select the time period for which the report is to be created (Figure 8.5—13, **1**).
 - 3.2 If the **User defined** period is selected, enter the date of start and end periods for which the report is to be created in the **from** and **to** fields using the **Calendar** tool (Figure 8.5—13, **2**). Click the  button next to the corresponding field to use the **Calendar** tool (Figure 8.5—14).

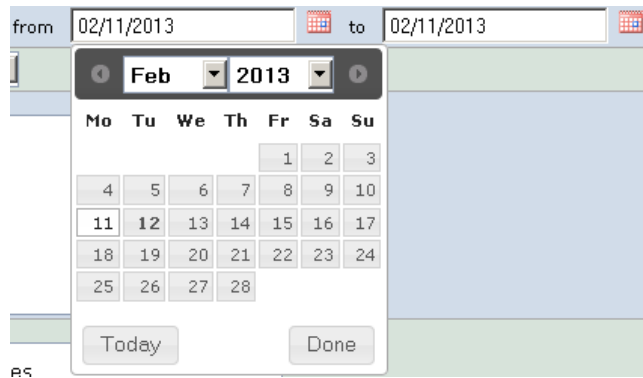


Figure 8.5—14 Specifying the start of time period using the Calendar

If another period type is selected, specifying the date of start and end periods is not needed.

- 3.3 In the **Transport detection** drop-down list select the **Transport detection** object, data of which are to be used to create the report (Figure 8.5—13, 3).
- 3.4 In the **Lanes** list set checkboxes next to those lanes data of which is to be included in the report (Figure 8.5—13, 4).

*Note. In order to select all lanes in the list click the **All** link. To uncheck all checkboxes click the **None** link (Figure 8.5—13, 4).*

- 3.5 In the **Types of vehicles** list set checkboxes next to those vehicle types data of which is to be included in the report (Figure 8.5—13, 5).

*Note. In order to select all groups in the list click the **All** link. To uncheck all checkboxes click the **None** link (Figure 8.5—13, 5).*

- 3.6 In the **Displayed data** list set checkboxes next to those parameters which are to be included in the report (Figure 8.5—13, 6).

*Note. In order to select all fields in the list click the **All** link. To uncheck all checkboxes click the **None** link (Figure 8.5—13, 6).*

4. Click **Execute** to create the report (Figure 8.5—13, 7).

As a result the report in the selected form is displayed (Figure 8.5—15).

Traffic statistics by vehicles type

Period: 1/1/2012 12:00:00 AM 12/31/2012 11:59:59 PM
 Data source: Traffic detector 1

Detector/lane/vehicle type	Total vehicles	Average speed, km/h	Violation count	Overspeed	Wrong road side	Stopped vehicles count	Average road occupancy	Traffic jam
Traffic detector 1	15467	66.8	0	0	0	51	9.7	0
Lane 0 (Movement towards the camera)	0	0.0	0	0	0	0	0.0	0
Lane 1 (Movement towards the camera)	2161	37.2	0	0	0	19	7.3	0
Motorcycles	20	10.2	0	0	0	9	6.4	0
Cars	1303	40.2	0	0	0	8	7.1	0
Trucks with length < 12m.	609	37.6	0	0	0	1	6.9	0
Trucks with length > 12m.	158	23.7	0	0	0	0	10.7	0
Buses	70	18.7	0	0	0	0	6.9	0
Lane 2 (Movement towards the camera)	4214	69.1	0	0	0	16	11.4	0
Motorcycles	12	5.1	0	0	0	1	8.0	0
Cars	2500	65.7	0	0	0	8	11.4	0
Trucks with length < 12m.	473	79.0	0	0	0	4	11.5	0
Trucks with length > 12m.	749	74.5	0	0	0	2	11.7	0
Buses	479	70.6	0	0	0	0	11.2	0
Lane 3 (Movement towards the camera)	4461	57.2	0	0	0	10	9.7	0
Motorcycles	0	0.0	0	0	0	0	0.0	0
Cars	2613	55.8	0	0	0	1	9.9	0
Trucks with length < 12m.	1002	69.9	0	0	0	3	9.7	0
Trucks with length > 12m.	516	45.8	0	0	0	4	8.9	0
Buses	328	47.6	0	0	0	0	9.8	0
Lane 4	4631	87.8	0	0	0	6	9.4	0
Motorcycles	0	0.0	0	0	0	0	0.0	0
Cars	3484	89.5	0	0	0	4	9.5	0
Trucks with length < 12m.	678	64.3	0	0	0	0	9.4	0
Trucks with length > 12m.	251	102.8	0	0	0	0	7.9	0
Buses	216	117.5	0	0	0	0	9.4	0
Lane 5	0	0.0	0	0	0	0	0.0	0

Figure 8.5—15 Traffic statistics by vehicles type

8.6 Working with protocol reports

Protocol report is a table that contains information on events presence from specified objects during the determined time period.

The **Common reports module operator** operation is to be selected for the role of corresponding user for working with the protocol reports (see the *Role editing* section).

To create a protocol report click **Common Reports** link in the report menu of *Report System* (Figure 8.5—1).

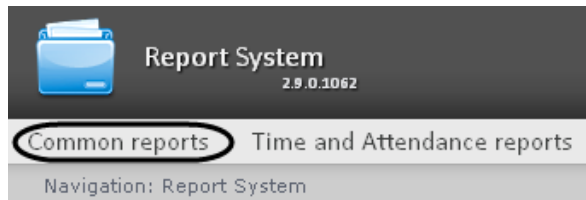


Figure 8.6—1 Switch to Common reports

For switching to the **Protocol report** click the corresponding link ().

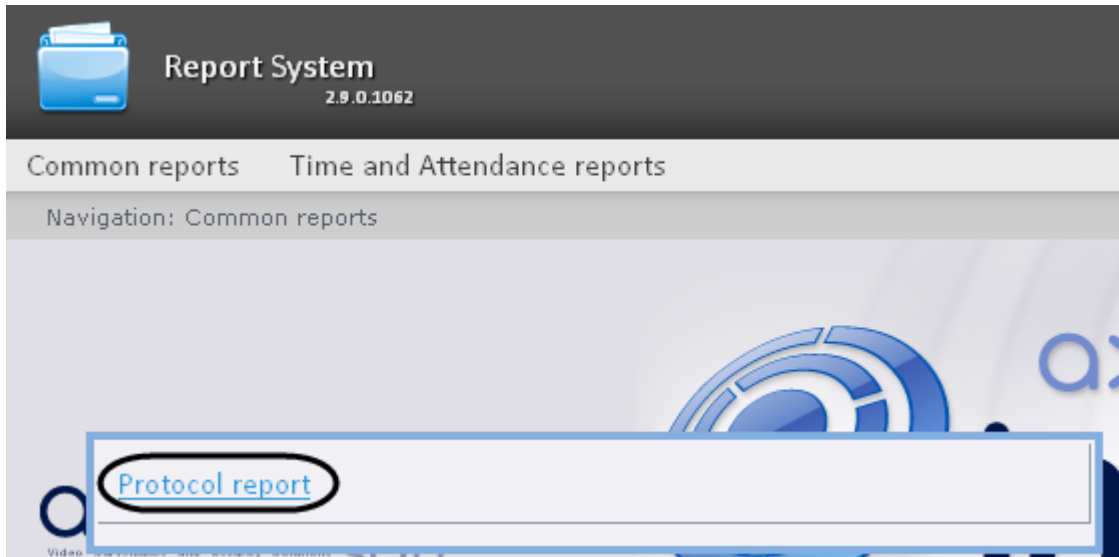


Figure 8.6—2 Selecting a Protocol report

Note. List of links for switching to Protocol reports is available when hovering over the **Common reports** link in the report menu (Figure 8.6—3).

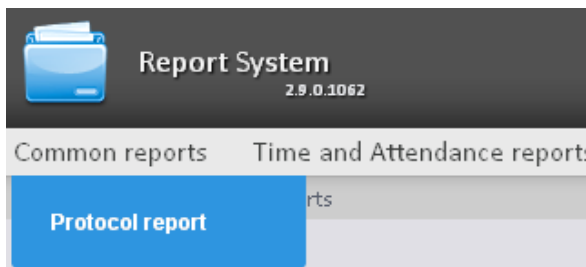


Figure 8.6—3 Access to a Protocol reports in the reports menu

A page of a Protocol report is displayed (Figure 8.4—4).

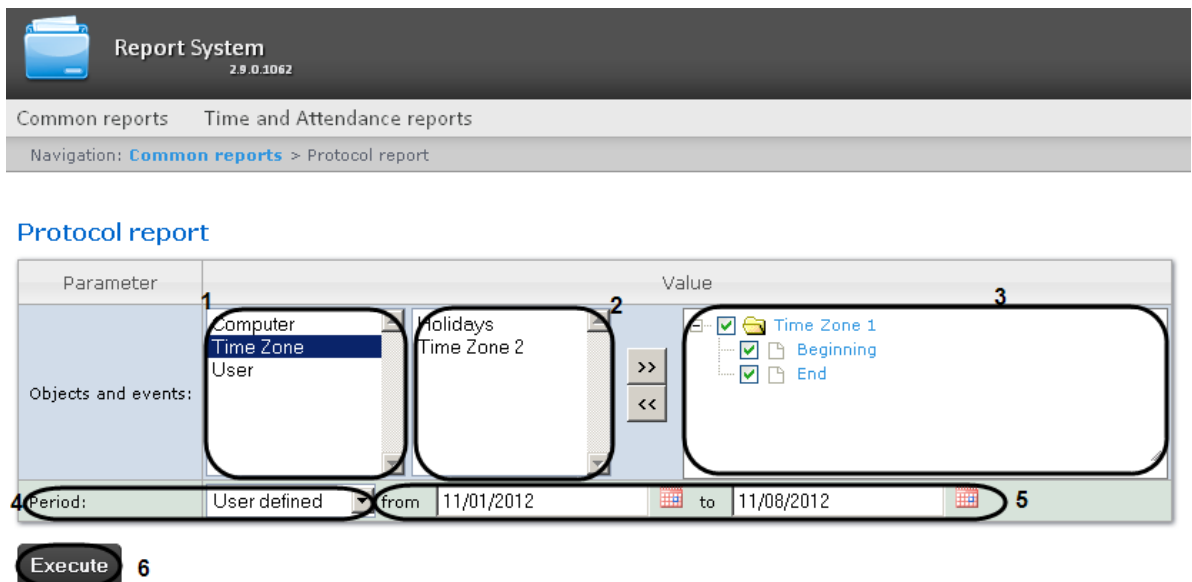


Figure 8.6—4 Protocol report

In order to create a protocol report, do the following:



1. Select the needed object type from the objects list (Figure 8.6—4, 1).
2. Select objects on which the report is to be created from the objects list of corresponding type (Figure 8.6—4, 2).
3. Click the  button to display events corresponding to the selected object.
4. Set the checkboxes in those events of the selected object on which information is to be displayed in the report (Figure 8.6—4, 3).
5. Specify the period in the following way:
 - 7.1 From the **Period:** drop-down list select the time period for which the report is to be created (Figure 8.6—4, 4).
 - 7.2 If the **User defined** period is selected, enter the date of start and end periods for which the report is to be created in the **from** and **to** fields using the **Calendar** tool (Figure 8.6—4, 5). Click the  button near the corresponding field to use the **Calendar** tool (Figure 8.6—5).

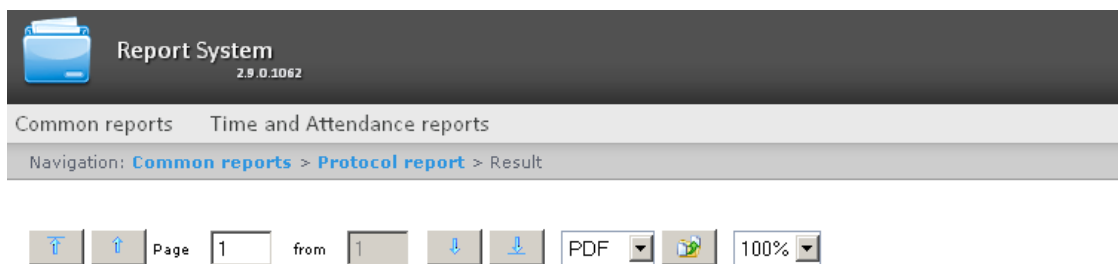


Figure 8.6—5 Specifying the start of time period using the Calendar

If another period type is selected, specifying the date of start and end periods is not needed.

8. To create a report click **Execute** (Figure 8.6—4, 6).

As a result a Protocol report with specified parameters is displayed (Figure 8.6—6).



Protocol report

Period:01.09.2012 - 30.09.2012

Source	Object type	Event	Information	Date	Computer
Time Zone 1	Time Zone	End		01/09/2012 14:26:41	O-VOROBYOVA

Figure 8.6—6 Example of Protocol report

8.7 Working with «Face» module report

The **Face operator** operation is to be selected for the role of corresponding user for working with the Face module reports (see the *Role editing* section).

To search by picture click **Face module** link in the report menu of *Report System* (Figure 8.7—1).

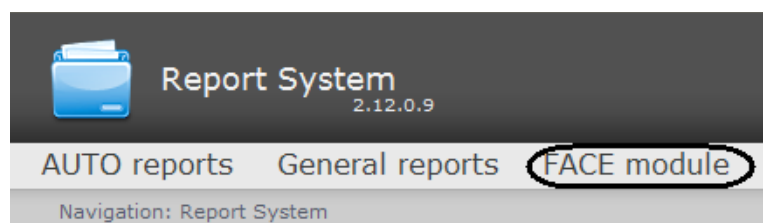


Figure 8.7—1 Switch to Face module

For switching to the **Search by picture** click the corresponding link (Figure 8.7—2).

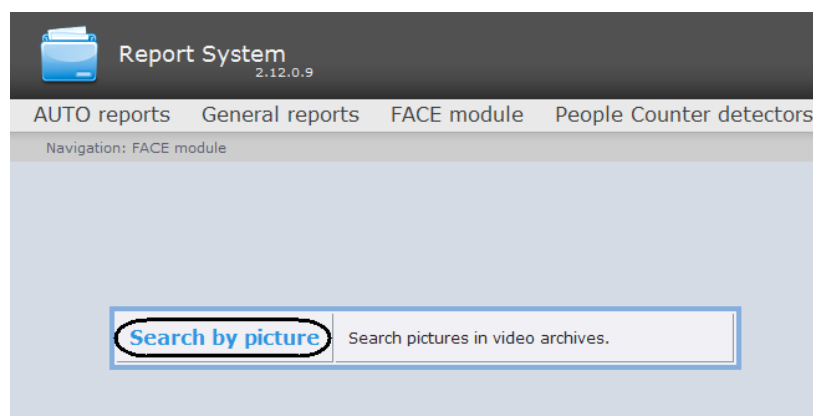


Figure 8.7—2 Selecting a Search by picture

Note. List of links for switching to Search by picture is available when hovering over the **Face module** link in the report menu (Figure 8.7—3).

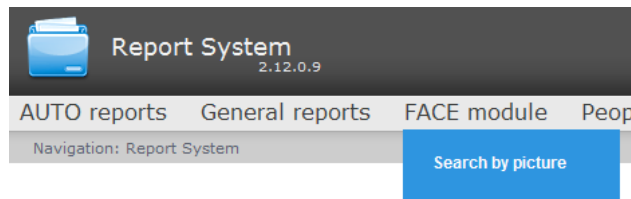


Figure 8.7—3 Access to a Search by picture in the report menu

A page with parameters of Search by picture is displayed (Figure 8.4—4).

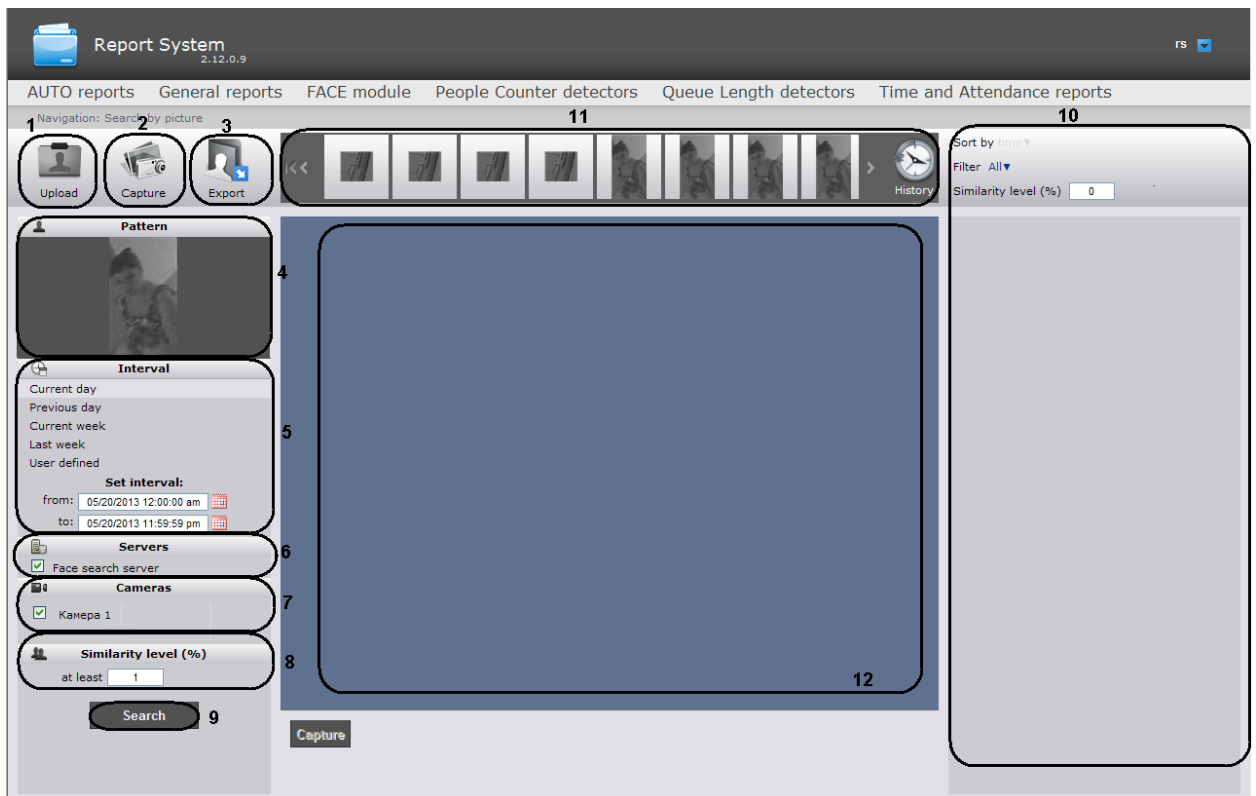


Figure 8.7—4 Page with parameters of Search by picture

In order search by picture, do the following:

1. Upload the picture by one of the following ways:



- to upload the picture click **Upload** (Figure 8.7—4, 1).

As a result the uploading window will display (Figure 8.7—5). In the **File** tab choose the needed file. To add file using the URL go to the **Link** tab and enter the corresponding link. To confirm click **Next**.

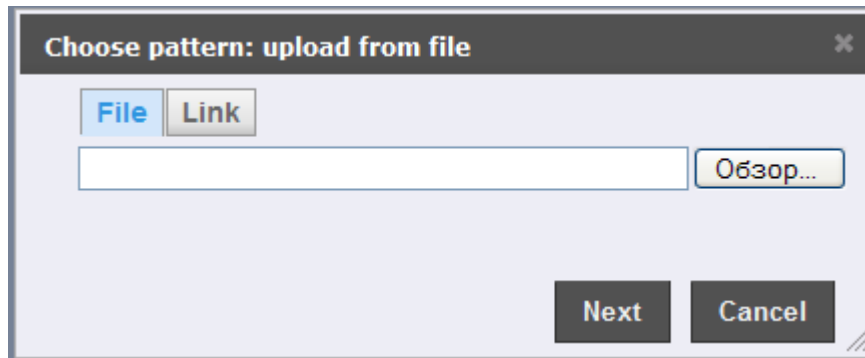




Figure 8.7—5 File uploading

- to capture the picture from the video camera click the  Capture button (Figure 8.7—4, 2).

As a result the window with the captured picture will display. Select the needed area in the image and click **Ok**.



Figure 8.7—6 Capture the image from the video camera

2. The picture by which the search will be performed is displayed in the **Pattern** section (Figure 8.7—4, 4).
3. Specify the search interval in the **Interval** section. If the **User defined** interval is selected, enter the date of start and end periods for which the search is to be performed in the **from** and **to** fields using the **Calendar** tool (Figure 8.7—4, 5). Click the  button near the corresponding field to use the **Calendar** tool (Figure 8.6—5).

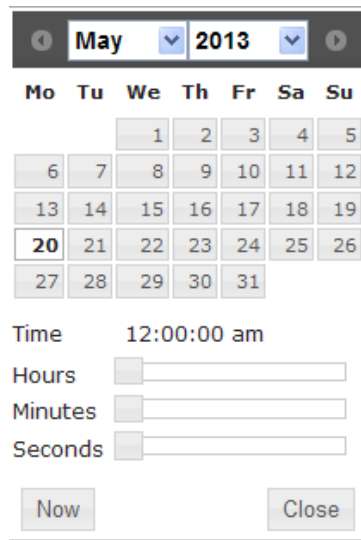


Figure 8.7—7 Specifying the start of time period using the Calendar

4. Set the checkboxes in those Face search servers which are needed for search by picture in the **Servers** section (Figure 8.7—4, 6).
5. Set the checkboxes in those cameras on which the search by picture is to be performed in the **Cameras** section (Figure 8.7—4, 7).
6. Specify the smallest similarity level in percents in the **Similarity level** section (Figure 8.7—4, 8).
7. Click **Search** to start searching by picture (Figure 8.7—4, 9).
8. The search results will display in the left part of the window (Figure 8.7—4, 10). Select the needed result from the list and in the central part of the window the corresponding archive is displaying and the fragment where the matching is found out is highlighted (Figure 8.7—4, 12).
9. The search history is displayed in the high part of the window (). To review the detailed history



click **History** (Figure 8.7—8).

9.1 To search the request enter the date of search by picture and click **Search**.

9.2 To go back to the page of Search by picture click **Close**.

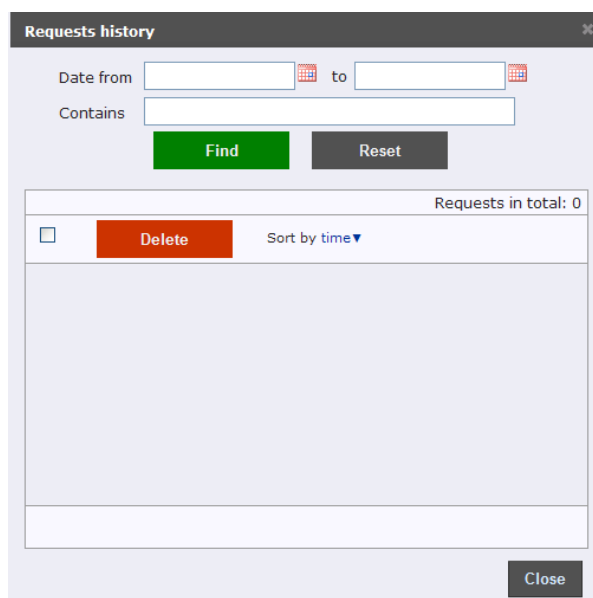


Figure 8.7—8 Requests history

9 Conclusion

Please send your comments or requests concerning this Guide to the AxxonSoft Training and documentation development division at documentation@itv.ru.

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