



Report System

User Guide

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Introduction

Purpose of document

Intellect 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.

The structure of the document allows the user to skim over the provided information about *Intellect Web 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 *Intellect Web Report System* system functionality and implementation features.

Recommendations that are necessary to user-administrator for *Intellect Web Report System* system installation are given in details in the [Requirements for Intellect Web Report System realization](#) and [Intellect Web Report System installation and removing](#) chapters of this guide.

Description of startup and shutdown of *Intellect Web Report System* system is given in [Intellect Web Report System startup and shutdown](#) chapter.

A brief excursus into system interface is given in [Intellect Web Report System interface](#) chapter.

Further in the [Intellect Web 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 *Intellect Web Report System* functionality is given in the [Working with Intellect Web Report System](#) chapter.

Purpose of Intellect Web Report System

Intellect 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 *Intellect Web Report System* allows accomplishing the following tasks:

1. Creating and exporting reports by event log and viewing video archive from registration time of the selected event in the report (General reports). The base *Intellect* software package is required for working.
2. Creating and exporting reports by performed changes (General reports). The base *Intellect* software package is required for working.
3. Creating and exporting reports of *Auto-Intellect* module ("Auto" reports). The *Auto-Intellect* software package is required for working.
4. Creating and exporting general and detailed reports by work time accounting (WTA reports). The *ACFA Intellect* software package is required for working.
5. Creating and exporting general and detailed reports by count of people in the monitored object (People Counter detection). The *Intellect Detector Pack* software package is required for working.
6. Creating and exporting reports by queue length (Queue length detectors). The *Intellect Detector Pack* software package is required for working.
7. Creating and exporting general and detailed reports by POS-events (POS reports). The *POS Intellect* software package is required for working.
8. Setting up reports by 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.

9. Setting up the varied user access to all reports.
10. Setting up the *Intellect Web Report System* operation in the auto mode.

**Note.**

In *Intellect Web 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.

11. Creating and exporting customer behavior reports. The *Intellect Detector Pack* software package and *Analytics Pack subsystem* are required for working.

Components of Intellect Web Report System

The following components perform *Intellect Web 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 *Intellect Web Report System* can coincide. In other cases Web server should be available for Clients through network.

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

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

Requirements for Intellect Web Report System realization

Web server of Intellect Web Report System

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



Attention!

For working with *Intellect Web 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.

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

Before *Intellect Web 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.

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



Note.

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](#).



Note.

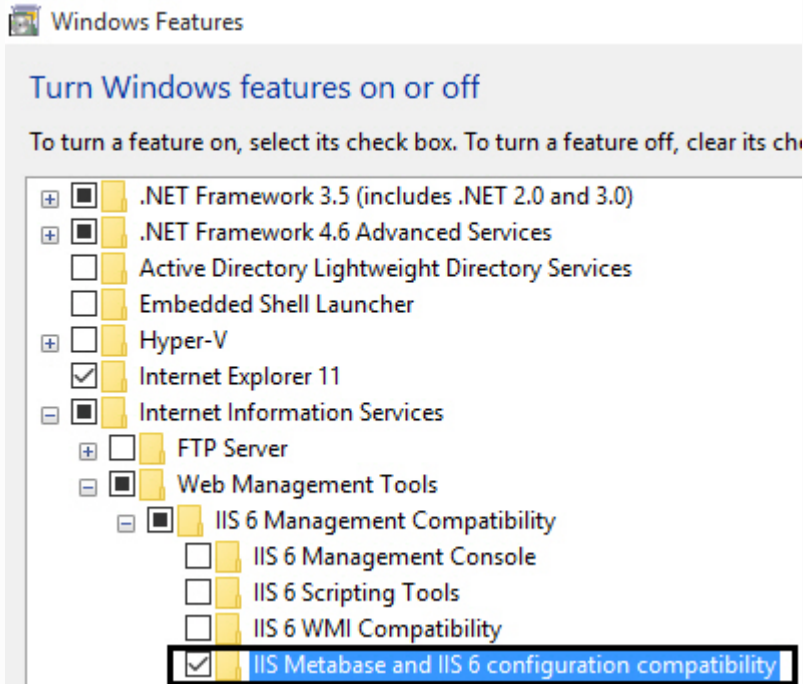
ASP.NET 4.5 module is to be enabled in the following places for Windows 8/8.1 OS:

- .NET Framework 4.5 add-on services;
- IIS services -> Internet Services -> Application development components.



Note.

The IIS Metabase and IIS 6 configuration compatibility component is to be enabled for Windows 10 OS.



For correct creation of reports in *Intellect Web 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.

The internal database of the server has the MS SQL format. A list of versions MS SQL Server, supported in *Intellect Web Report System* subsystem is identical with the list of versions for the Intellect software (see the [Internal video Server database](#) section).

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.

Client of Intellect Web Report System

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 Intellect Web Report System functioning in 64-bit operating system.

2. If it is supposed to view video archive of event from the report:
 - a. Permission to use ActiveX components in browser.
 - b. 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.

Setting up security parameters in Internet Explorer browser

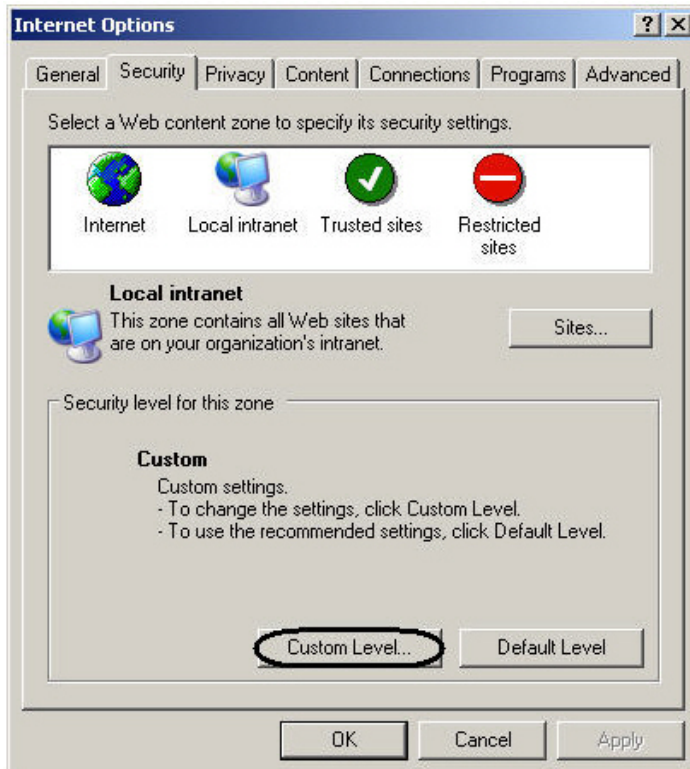
On default the use of ActiveX components is forbidden in *Internet Explorer*, that is why it's necessary to set extra security parameters.

For this do the following:

1. Execute the **Tools** -> **Internet options** command in main menu of *Internet Explorer* browser.

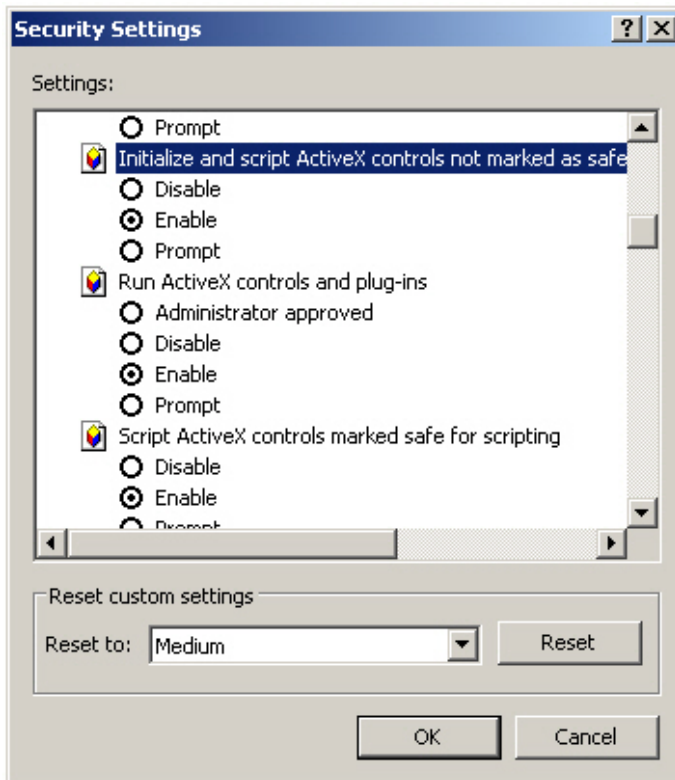


2. In the **Internet options** dialog box go to the **Security** tab.



3. In selected zone of dialog box (selected on default) click **Custom level**.
4. In the **Security settings** dialog box execute the following settings:
 - 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.



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

Setting security parameters in Internet Explorer browser is completed.

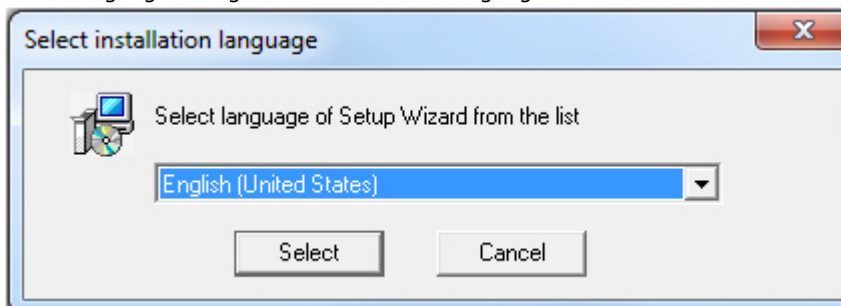
Intellect Web Report System installation and removing

Installation

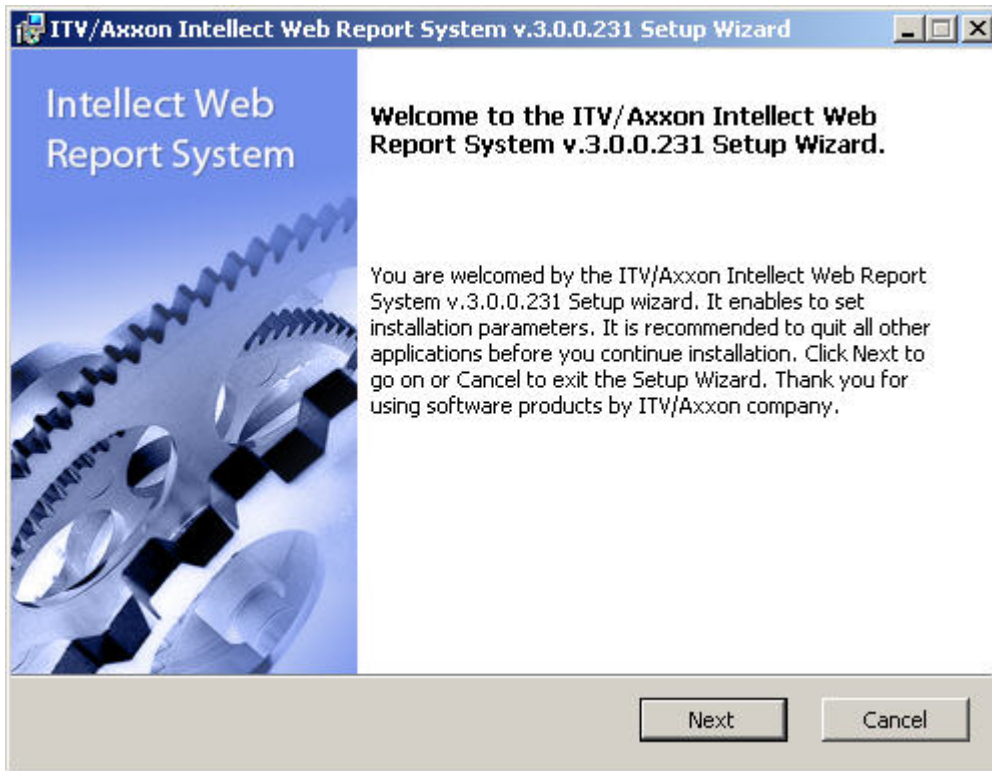
The *Intellect Web Report System* is installed as a part of the *Intellect* software. Information about compatibility of the *Intellect* software versions and *Intellect Web Report System* is presented by link: [General information about product releases and versions compatibility](#).

To install *Intellect Web Report System* do the following:

1. Start the ReportSystem.msi installation package.
2. In the language dialog window select the language from the list.

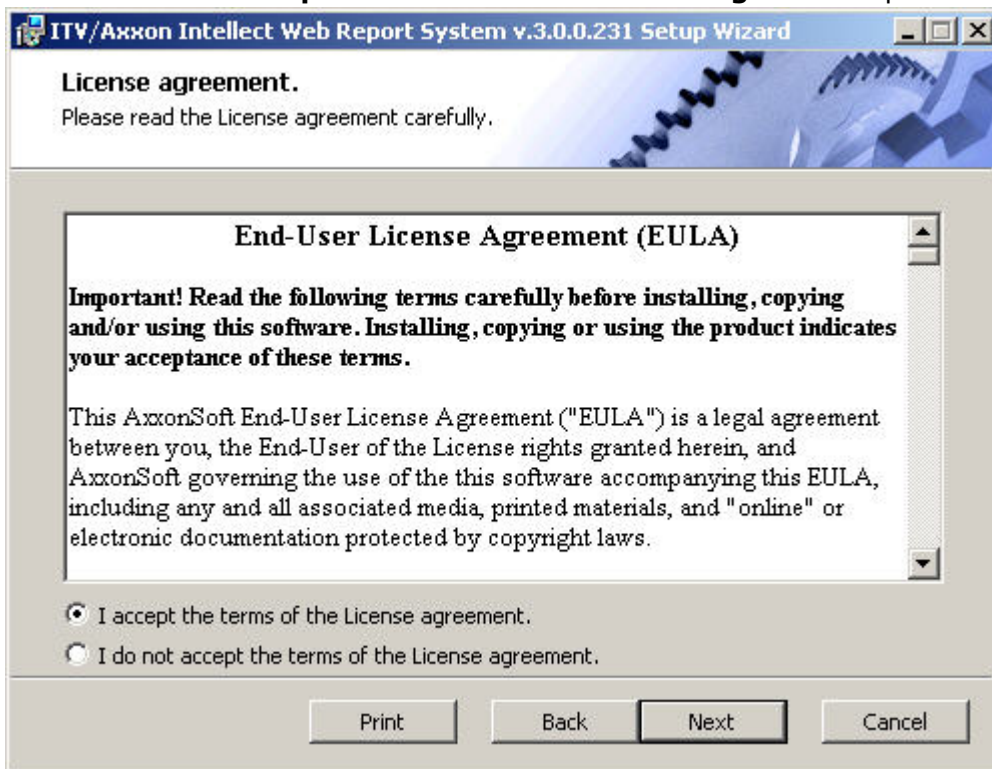


3. Click **Next** in the welcome window of setup wizard.



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**.



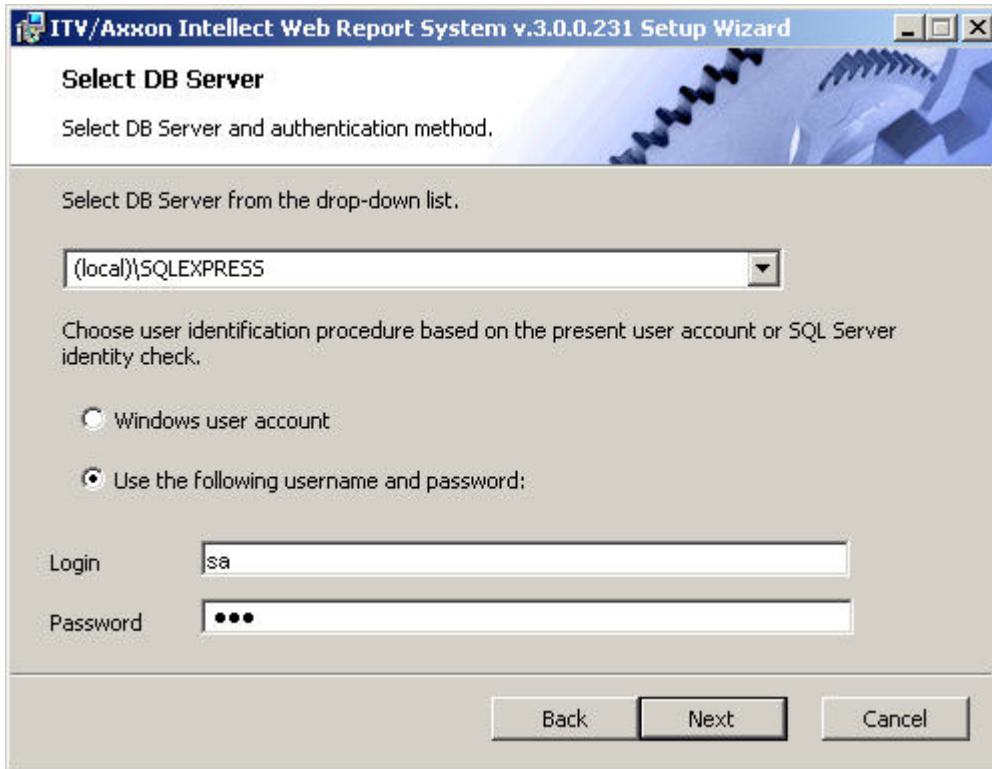
The **Select DB server** window is displayed.

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 *Intellect Web Report System* will be created on the same SQL server.

Note. Later it's possible to move the database of Intellect Web Report 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" />.
```



6. Set the authentication method that will be used by the *Intellect Web Report System* while connecting to SQL server with the database of the Intellect software package configuration. 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. Windows Account information method is used in the following cases:

- a. When SQL server where it's necessary to create *Intellect Web Report System* database and system itself are installed on one computer.
- b. When SQL server and *Intellect Web 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 *Intellect Web Report System* is installed should be created in Windows OS on computer with installed SQL server.

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

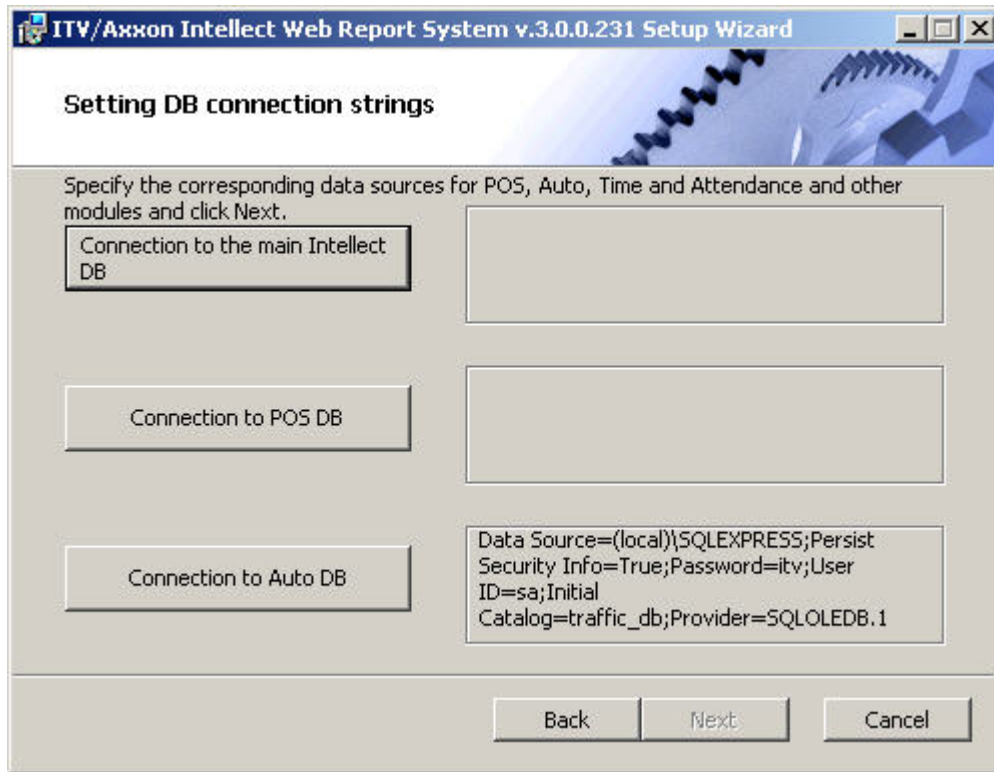
- a. When SQL server where it's necessary to create *Intellect Web Report System* system database and system itself are installed on one computer.
- b. When SQL server and *Intellect Web Report System* system are installed on different computers connected by TCP/IP and located in one network domain. 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 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.

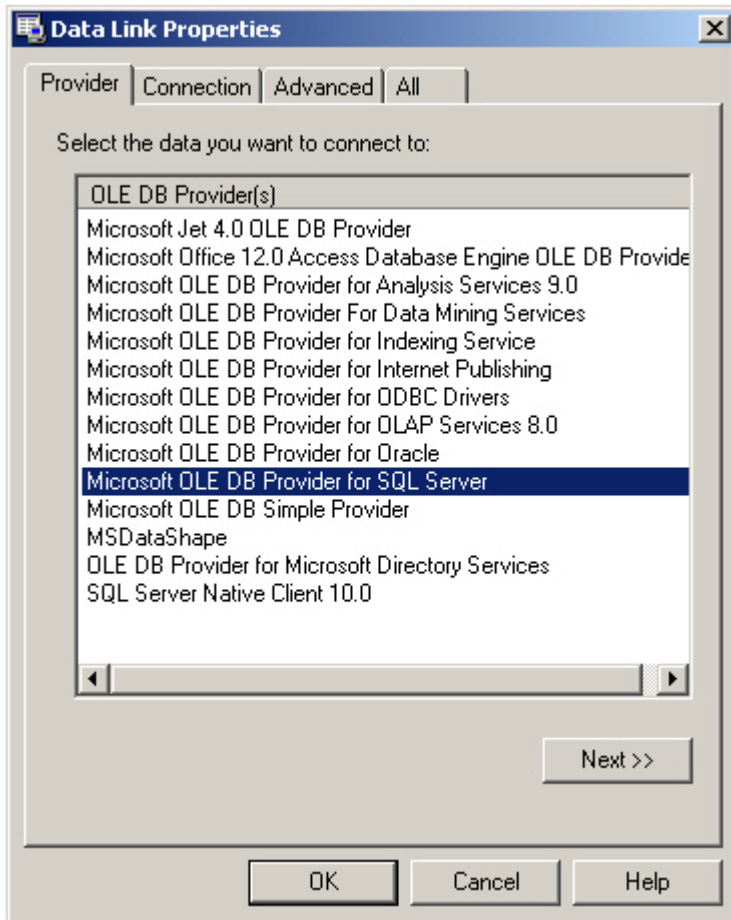


Note.

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

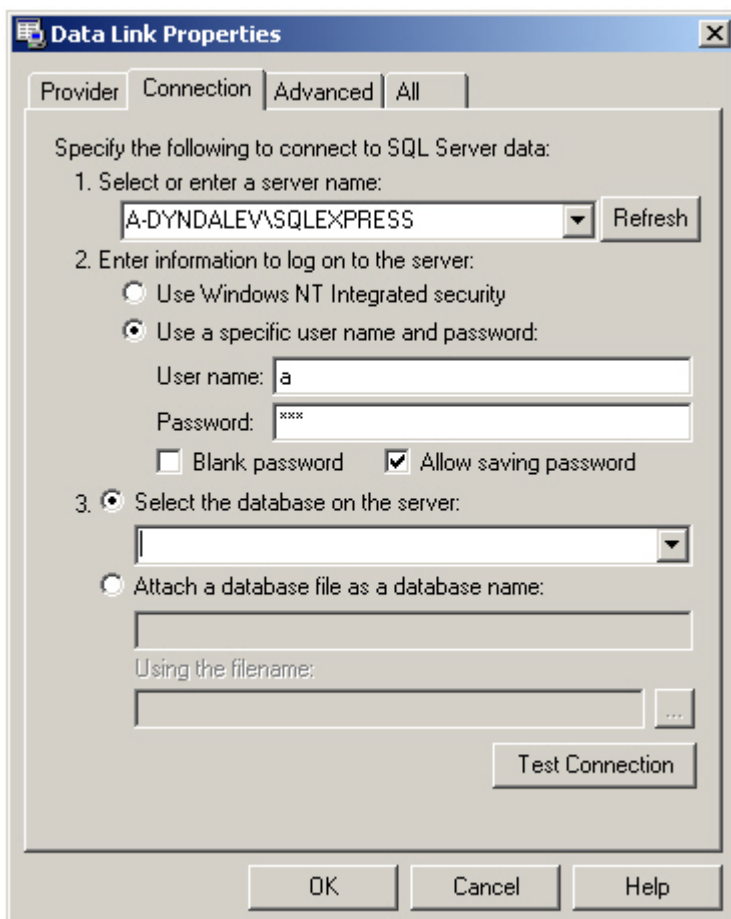


8. To set connection string to the database of *Time and Attendance* module do the following:
 - 8.1 Click **Connection to the main Intellect DB**.
 - 8.2 As a result the **Data link properties** dialog box is displayed.



8.3 In the **Data provider** tab select **Microsoft OLE DB Provider for SQL Server**. Click **Next**.

8.4 As a result there will be an automatic switch to **Connection**.

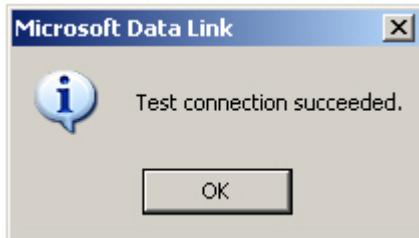


8.5 In **1. Select or enter a server name** line select from the list or enter manually the name of SQL server where database of *Time and Attendance* module is stored.

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. 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.

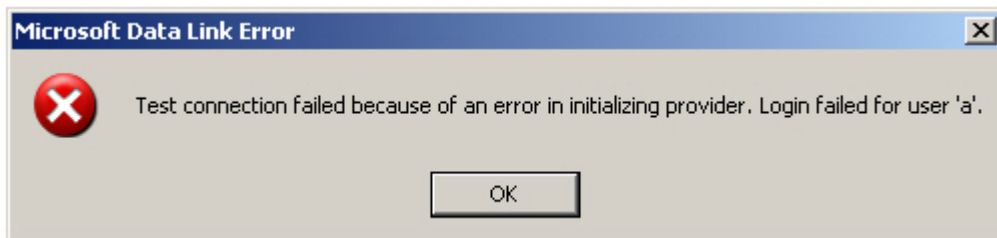
8.7 To check connection to SQL server click **Test connection**.

In case of successful connection the window with the **Test connection succeeded** message will be displayed.



It's necessary to click **OK** in the window of message and as a result the window will be shut down automatically.

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.



To shut down the window with the message, click **OK**. 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**.

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

9.3 Repeat 8.3-8.9 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:

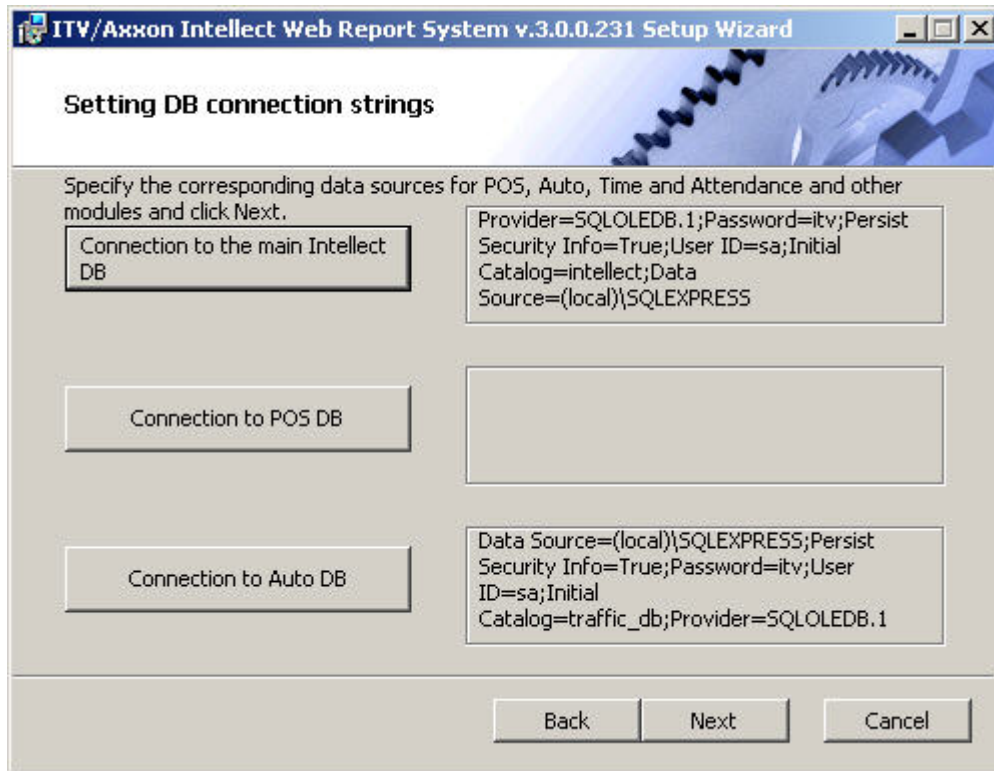
10.1 Click **Connection to Auto DB**.

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.

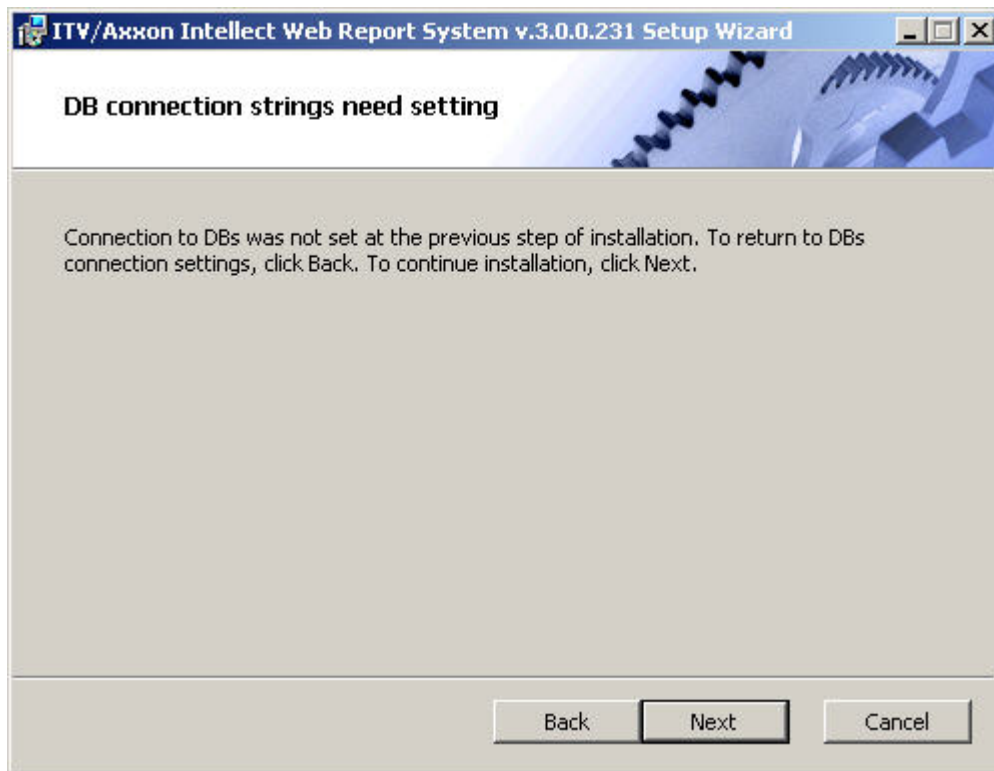


11. Click **Next**. If DB connection strings has not been set then the **DB connection strings need setting** dialog box will be displayed as a result.



Note.

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



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



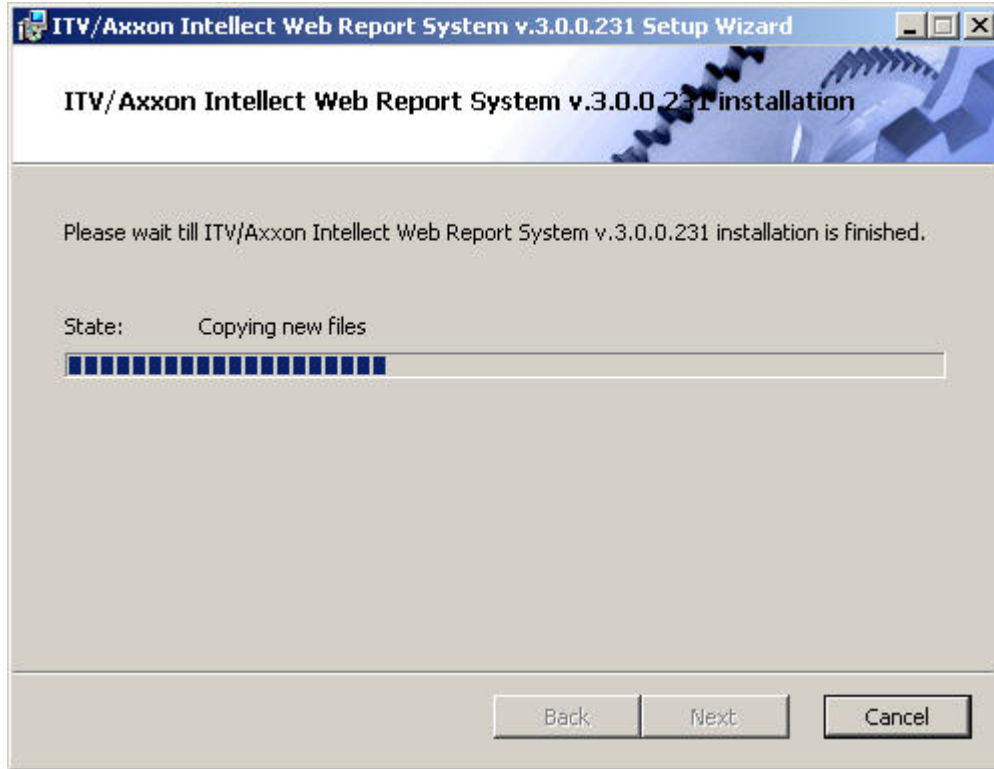
Note.

If there was installation without setting connection to DB then you can set the connection to DB using C:\P

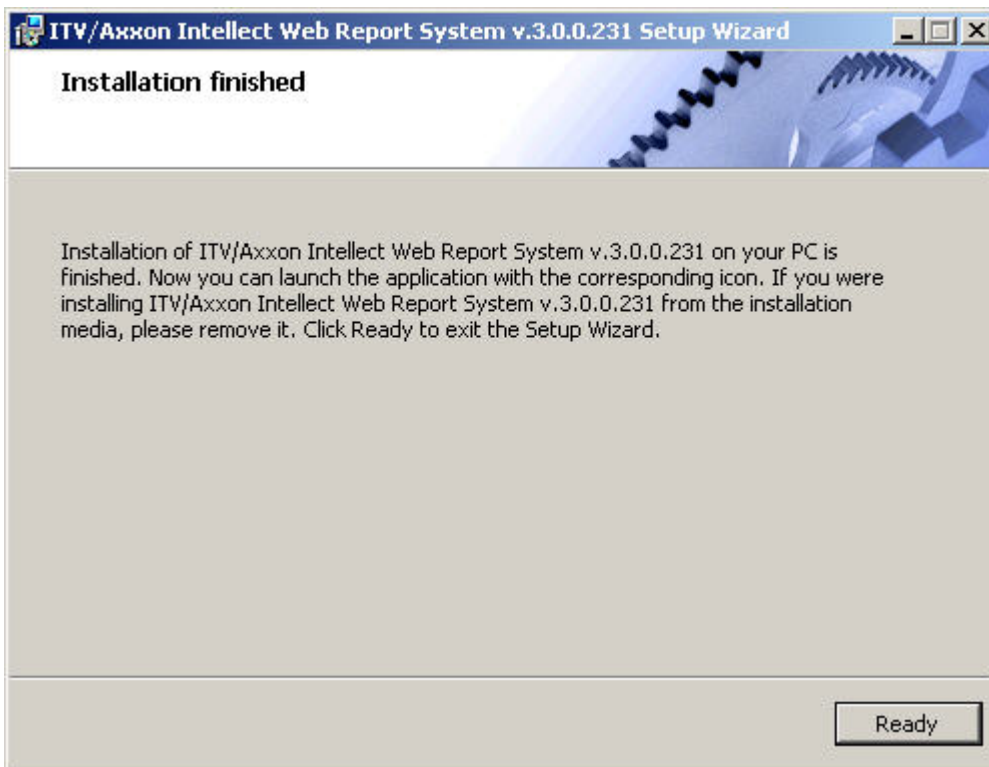
rogram Files\Интеллект\Modules\Wt2\Web.config file and adding connection strings. Examples of connection strings are given below:

- a. `<add name="IntellectDB" connectionString="Provider=SQLOLEDB.1;Password=itv;Persist Security Info=True;User ID=sa;Initial Catalog=intellect;Data Source=WS2\SQLEXPRESS"/>`
- b. `<add name="PosDB" connectionString="Server=.\SQLEXPRESS;Integrated Security=SSPI;Persist Security Info=False;Database=pos;Provider=SQLOLEDB.1"/>`
- c. `<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.



Message that *Intellect Web Report System* installation is finished is displayed in a new dialog box.



Intellect Web 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 *Intellect Web Report System* installation it's necessary to restart *Intellect* software package.

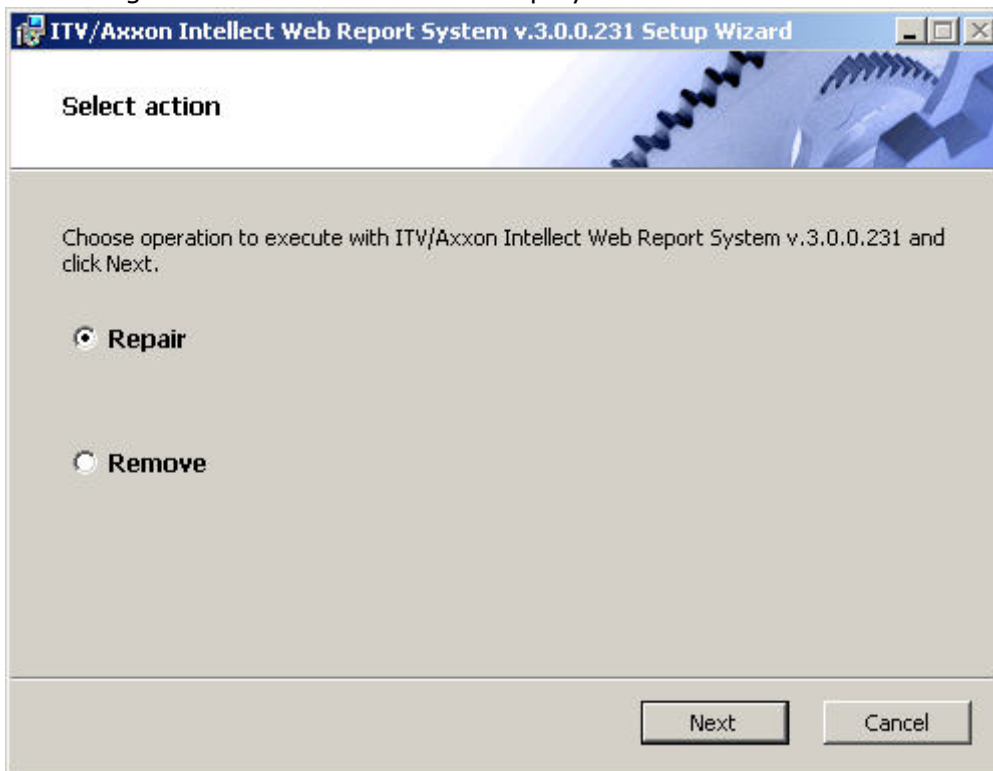
Repairing

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

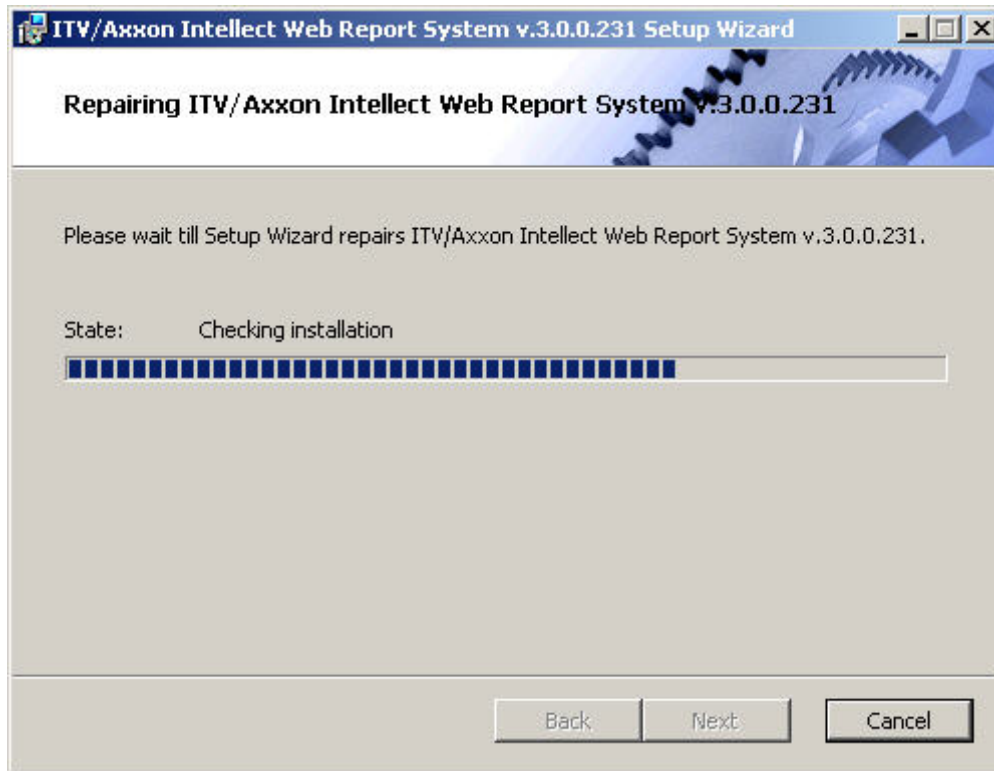
To start repairing mode it's necessary to start *Intellect Web Report System* installation once again without removing previous version of system.

To repair *Intellect Web Report System* do the following:

1. Start the ReportSystem.msi installation package.
The dialog box of action selection is displayed.



2. Select **Repair** type and click **Next**
The **Selection DB server** box is displayed.
3. In this and following boxes repeat 4-9 steps of *Installation* part.
The dialog box of *Intellect Web Report System* repairing is displayed.



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

Intellect Web Report System repairing is completed.



Attention!

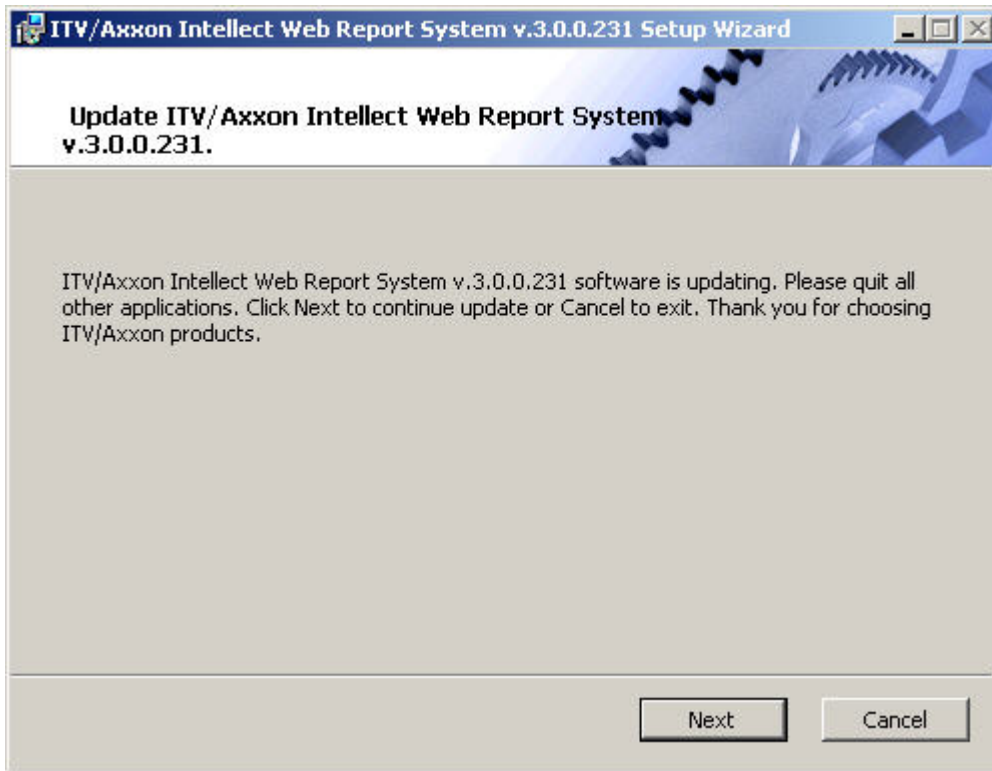
After *Intellect Web Report System* repairing it's necessary to restart Intellect software package.

Updating

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

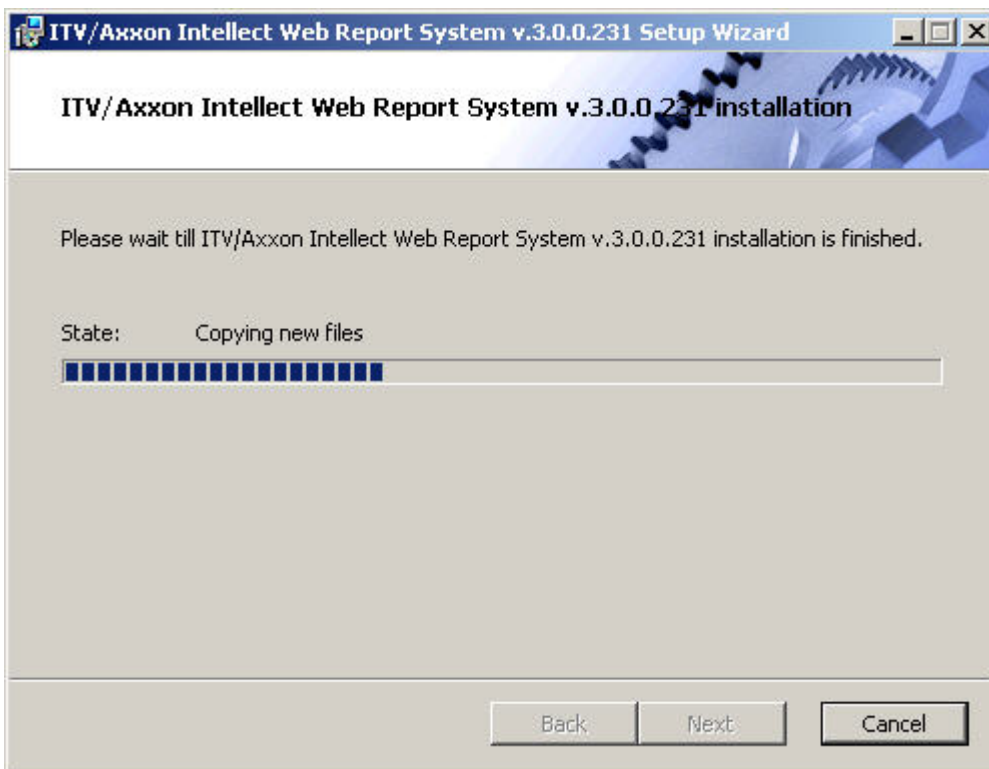
To update *Intellect Web Report System* do the following:

1. Start the ReportSystem.msi installation package.
The dialog box of *Intellect Web Report System* updating is displayed.



2. Click **Next**.
The **Selection DB server** box is displayed.
3. Repeat steps 4 and 5 of *Installation* part.

The dialog box of *Intellect Web Report System* updating is displayed.



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

Intellect Web Report System updating is completed.



Attention!

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

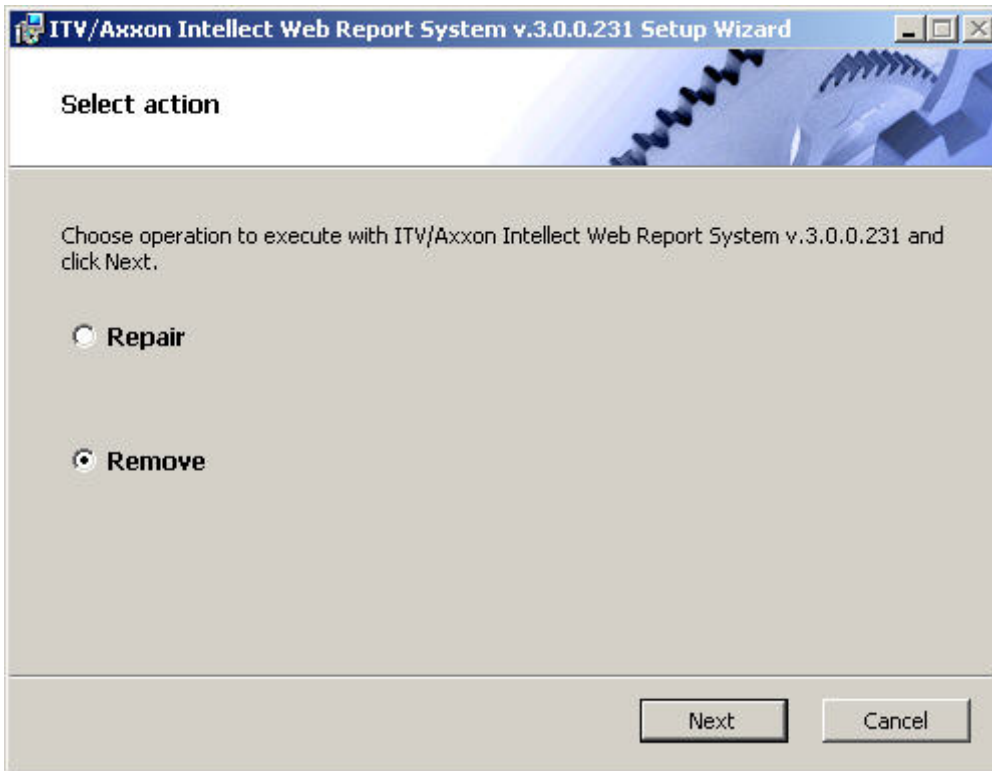
Removing

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

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

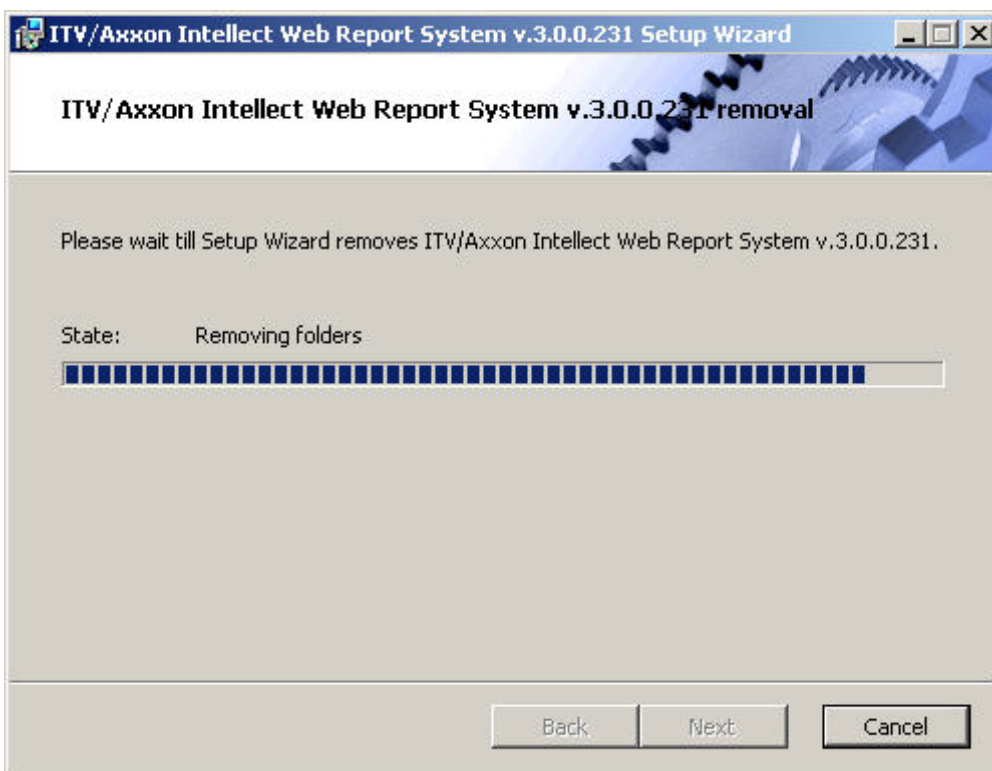
1. Using *Add or Remove Programs* application of Windows OS control panel;
2. Using ReportSystem.msi installation package.

As a result of one of these actions the dialog box of action selection is displayed.



Select **Remove** type and click **Next**.

The dialog box of removing process of *Intellect Web Report System* will be displayed.



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

Intellect Web Report System removing is completed.

Intellect Web Report System licensing

Activation key

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

If the *Intellect Web 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.

Activation of Intellect Web Report System functionality

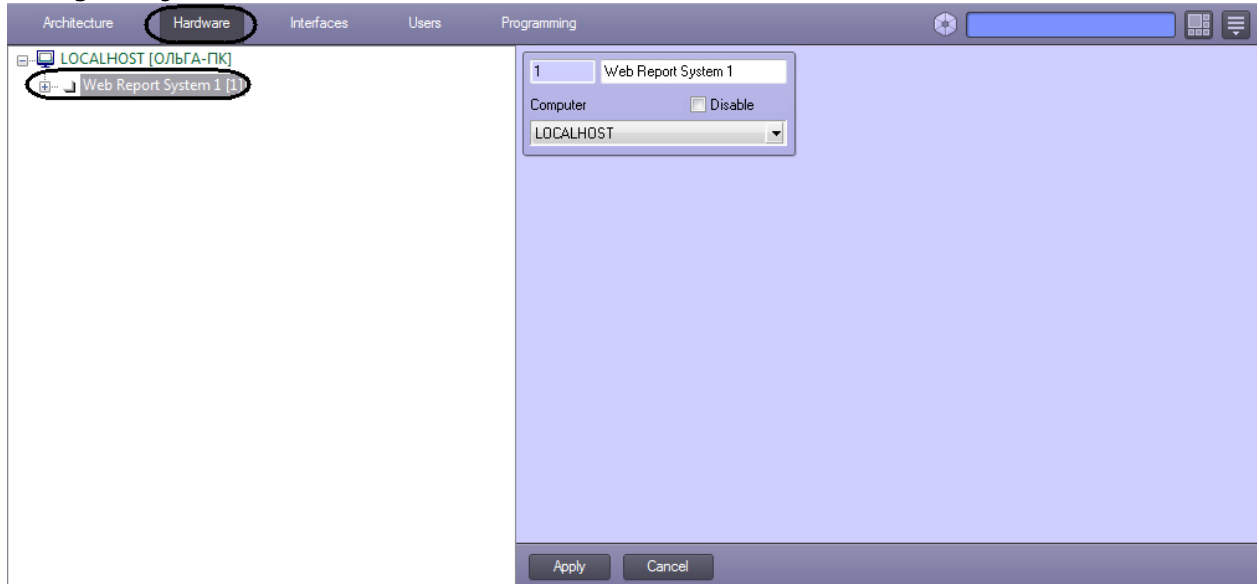


Attention!

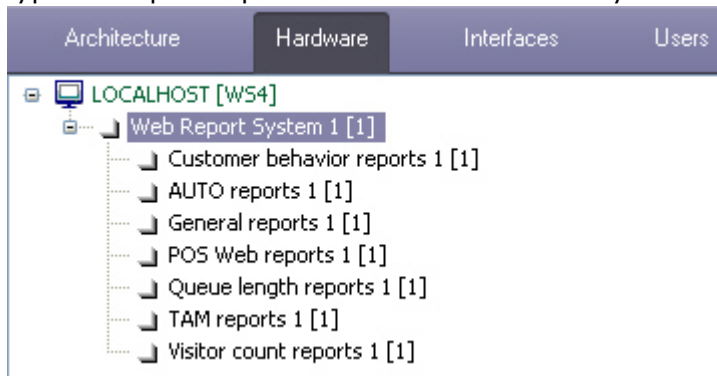
The activation of *Intellect Web Report System* functionality is possible only if there is the corresponding activation key.

To activate *Intellect Web 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.



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



Activation of *Intellect Web Report System* functionality is completed.

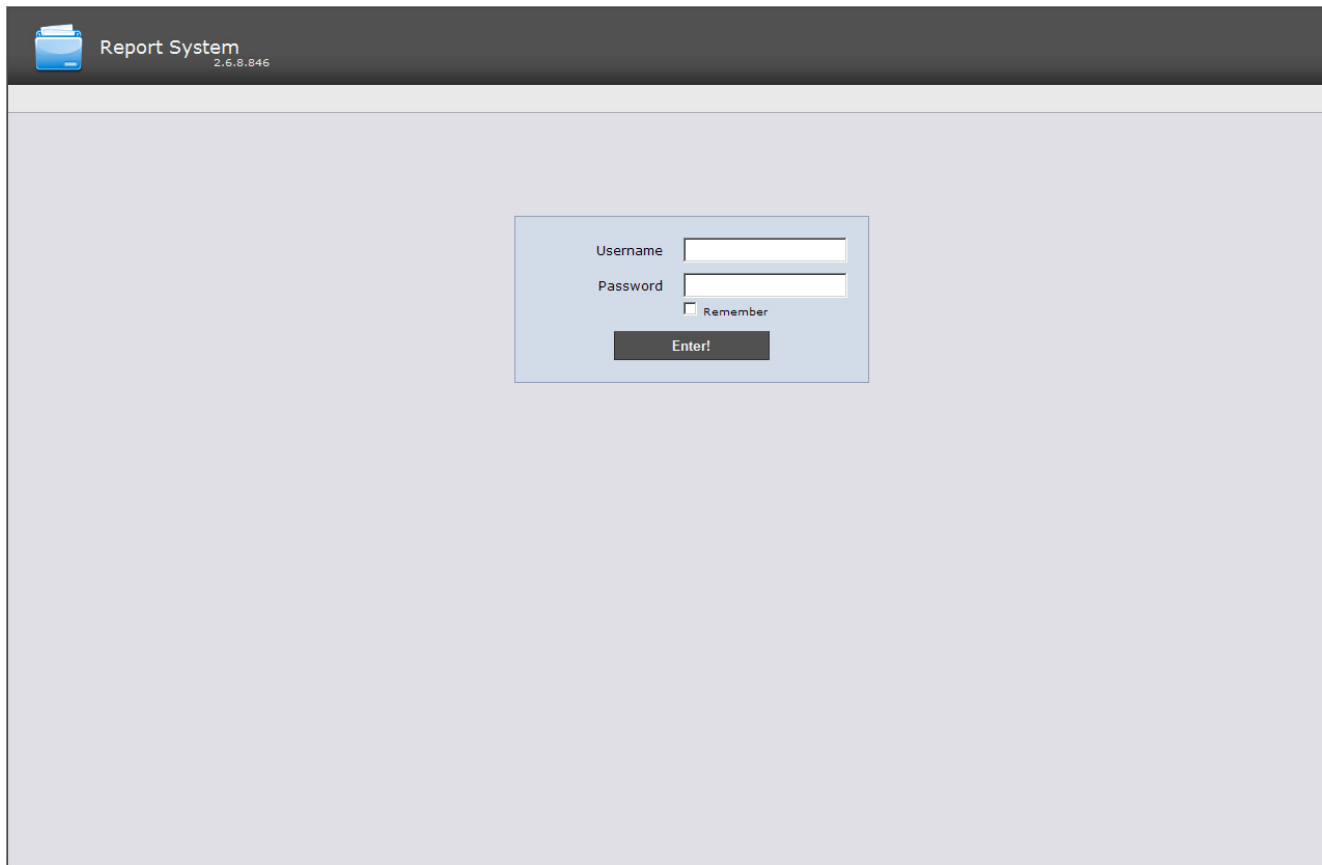
Intellect Web Report System startup and shutdown

Ways of starting

Starting of *Intellect Web 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 *Intellect Web Report System* authorization page is displayed.



Authorization

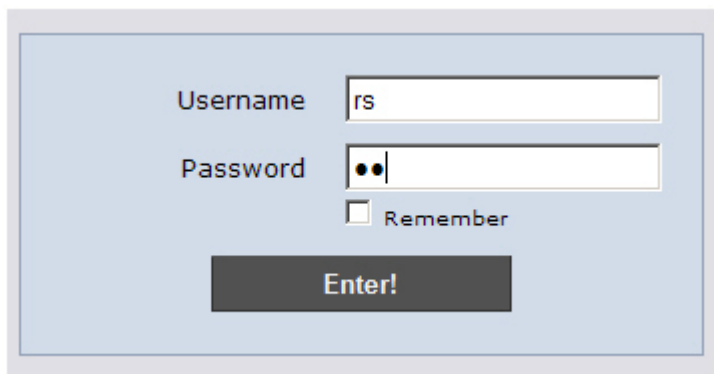
For *Intellect Web Report System* authorization do the following:

1. Start *Intellect Web Report System* in one of the available ways (see [Ways of starting](#)).
2. Type the username, password.



Note.

Initial entry to *Intellect Web 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](#) section).



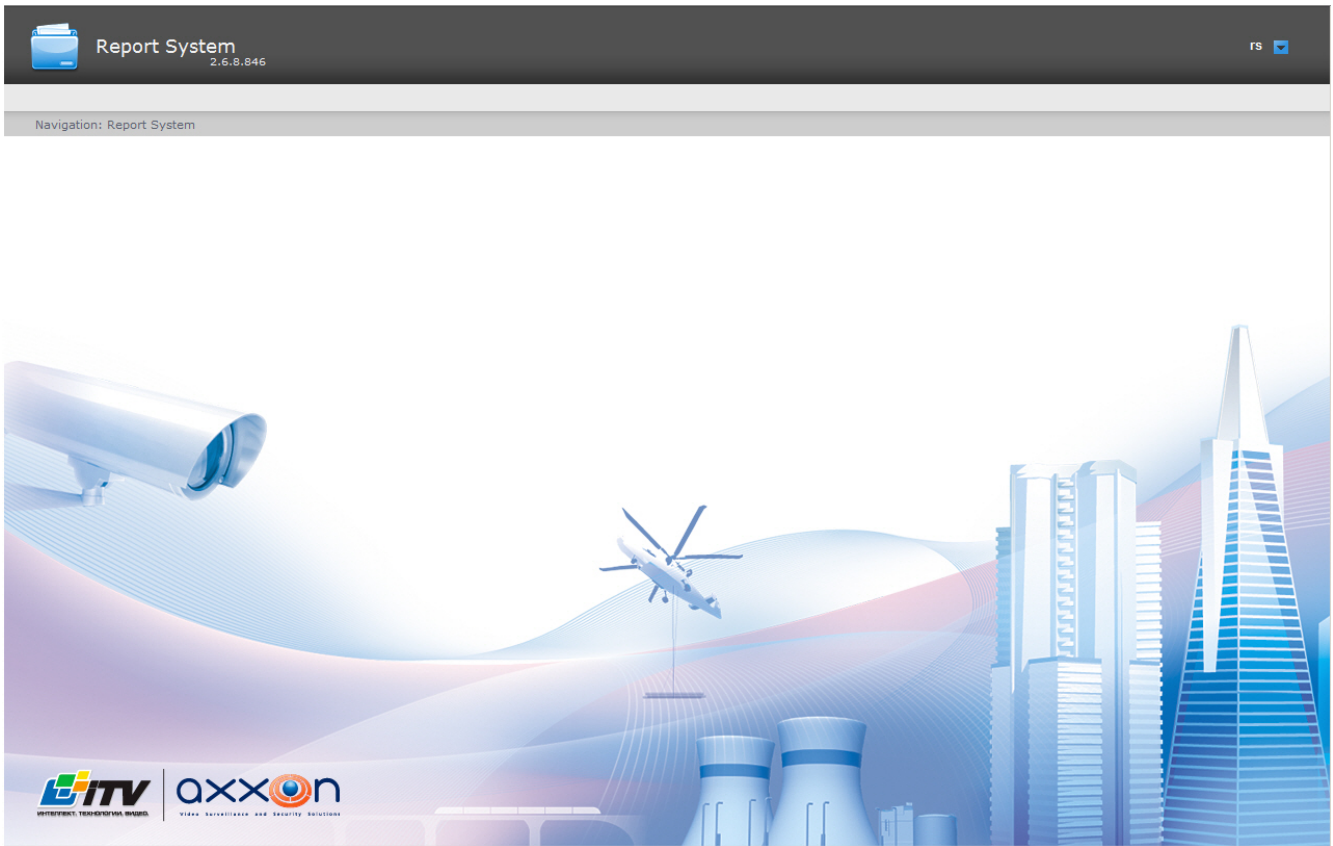
3. Set the **Remember** checkbox if the automatic authorization in Report System (with parameters specified in the step 2) is required.
4. Click **Enter**.

As a result one goes on the *Intellect Web Report System* document page.



Note.

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



Shutdown

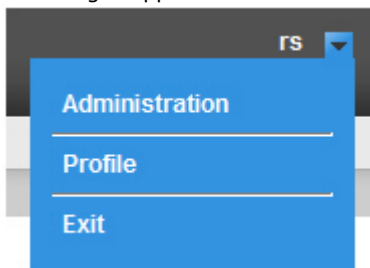
To shutdown *Intellect Web Report System* close the window in the browser.

User switching

One can switch *Intellect Web 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.



2. In the context menu select the **Exit** item.
3. *Intellect Web 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.

Intellect Web Report System interface


Intellect Web Report System interface consists of the following elements:

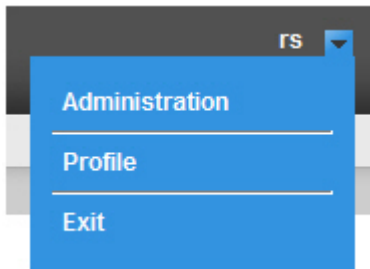
1. context menu;
2. page of documents;
3. administration page;

4. user profile page.

Context menu

Intellect Web 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.



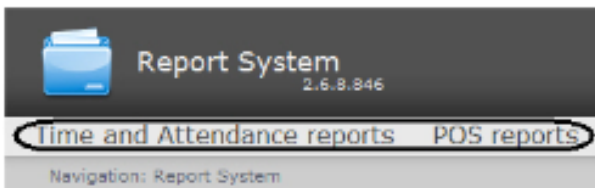
The following operations are available from the context menu:

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.

Page of documents

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

Besides the context menu the reports menu is also displayed on the page of documents.

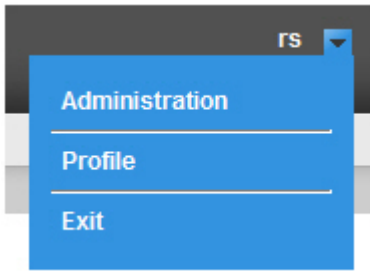


Note. If there are no operation rights for Time and Attendance reports and/or POS reports then the corresponding items of the reports menu (POS reports, Time and Attendance reports) are not displayed.

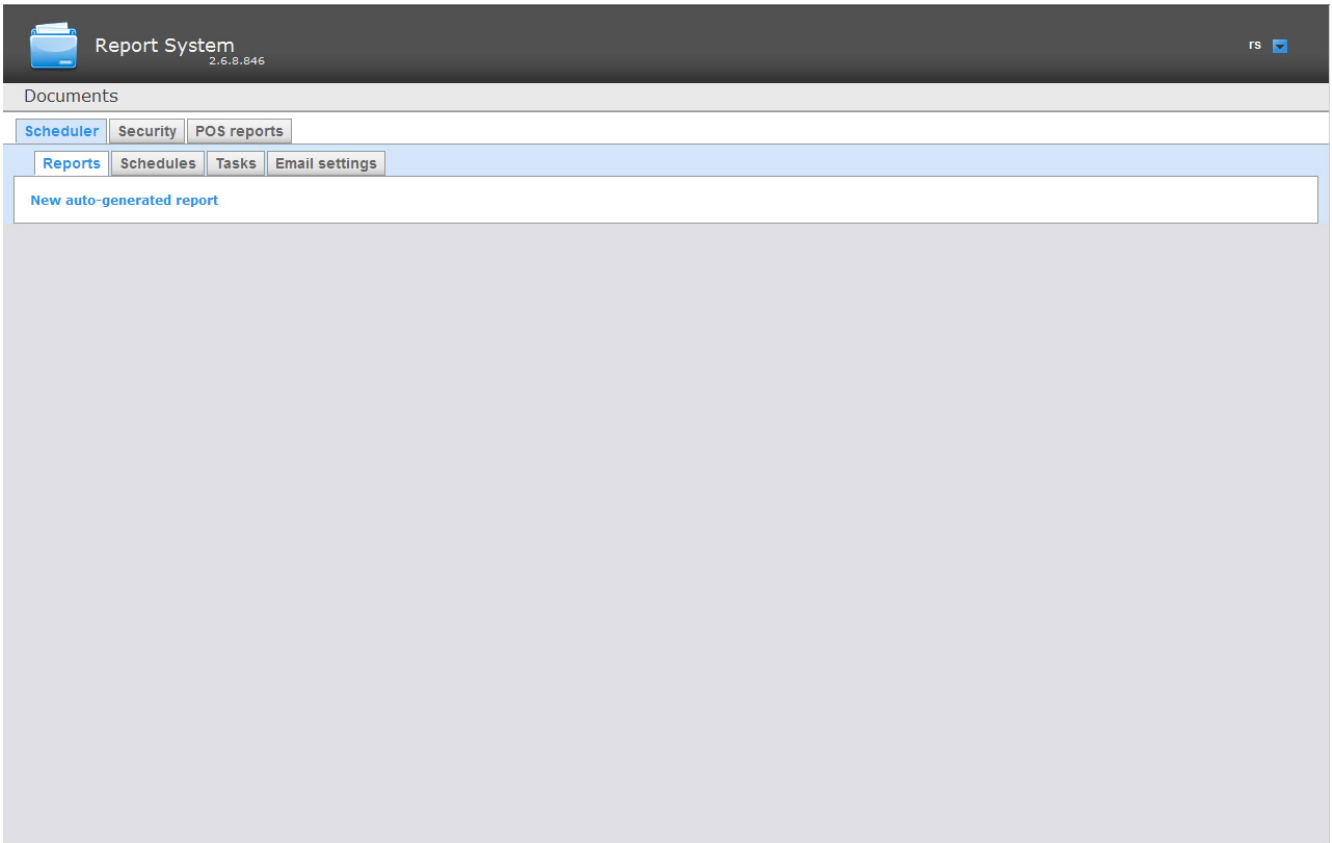
Administration page

Switch to the *Intellect Web Report System* administration page is carried out through the context menu by selecting the **Administration** item.

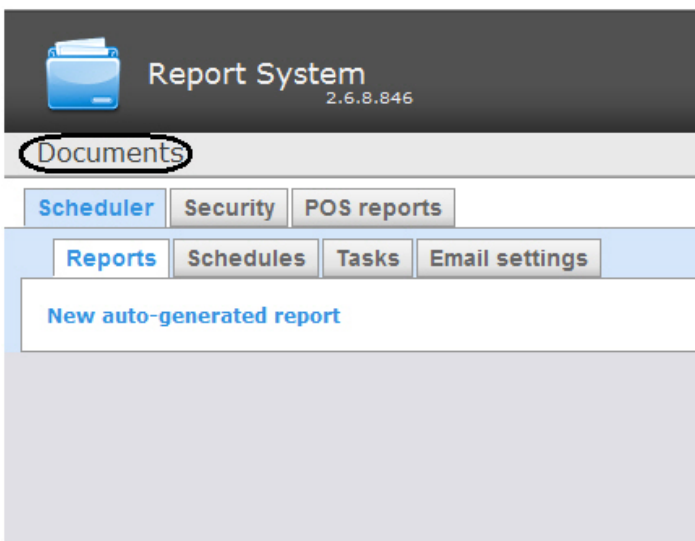
Note. For some users this item can not be displayed (it depends on the availability of the administration rights).



The *Intellect Web Report System* administration page will display.

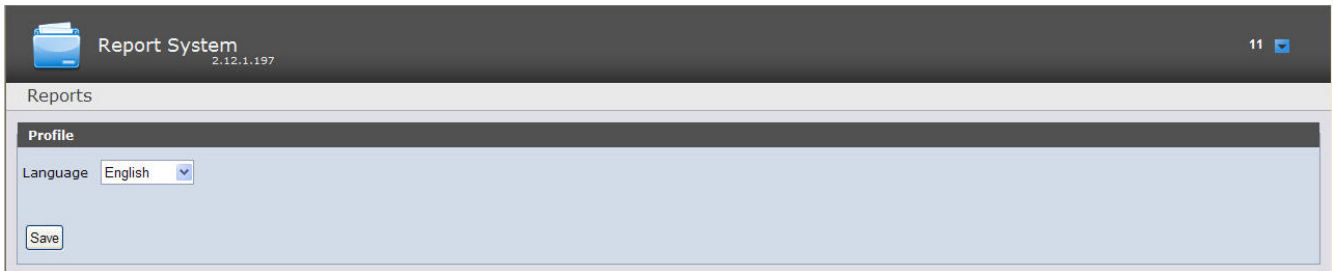


To return to the documents page click the **Documents** link.

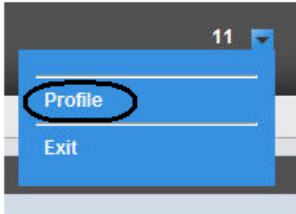


User profile page

Changing the interface language of *Intellect Web Report System* is performed in the user profile page.



Switch to the *Intellect Web Report System* user profile page is carried out through the context menu by selecting the **Profile** item.



Change the Intellect Web Report System interface language

To change the interface language, do the following:

1. Go to the user profile page.



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

Changing the interface language is completed.

Intellect Web Report System administration

Set up the roles and users

In *Intellect Web Report System* one role and one user are registered by default. They are **Administrators** and **rs** accordingly. They cannot be removed.

The **rs** user has rights to control all the components of *Intellect Web Report System* subsystem. The role of this user can't be changed. There is a possibility to change the password for **rs** user login to the *Intellect Web Report System* subsystem. Changing the password is performed on the **Profile** tab (see the [Change the password](#) section). The other user are able to change the password only on the **Programming** tab of the *Intellect* software.

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 *Intellect Web Report System* automatically after their registration in Intellect software package (see the [Peculiarities of the user registration in Intellect software package](#) chapter).

On default, users created in the *Intellect* software don't have any roles and operations, they don't have the rights to control *Intellect Web Report System* subsystem. All rights can be assigned them by subsystem administrator, on default it is the **rs** user.

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

Set up the roles

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

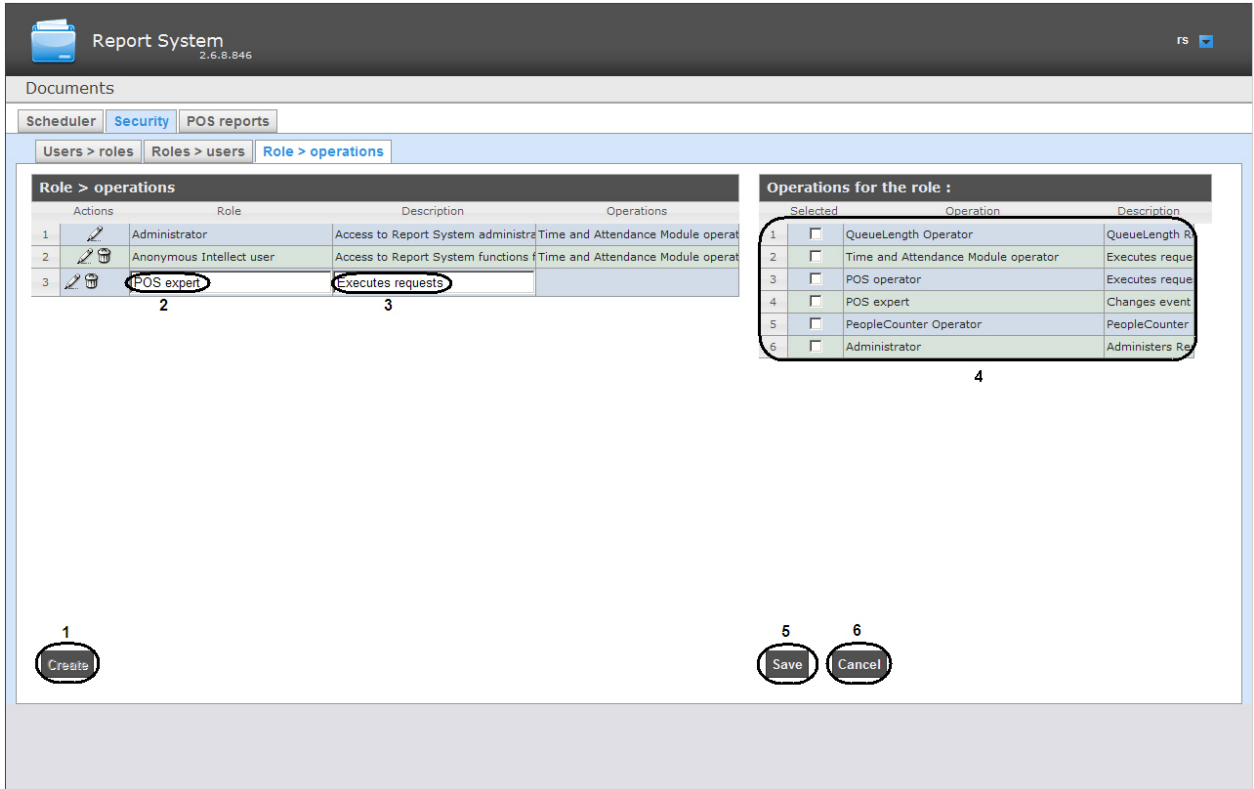
The following actions with roles are available:

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

Role registration

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

1. Go to the **Role > operations** tab.



2. Click **Create** (1).
3. As a result a new line will be added to the **Role > operation** table. Fill in its fields:
 - 3.1 In the **Role** field type the name of a new role (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 (3).

Note.
This field is optional for filling in.

4. In the **Operations for the role** table (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** (5).

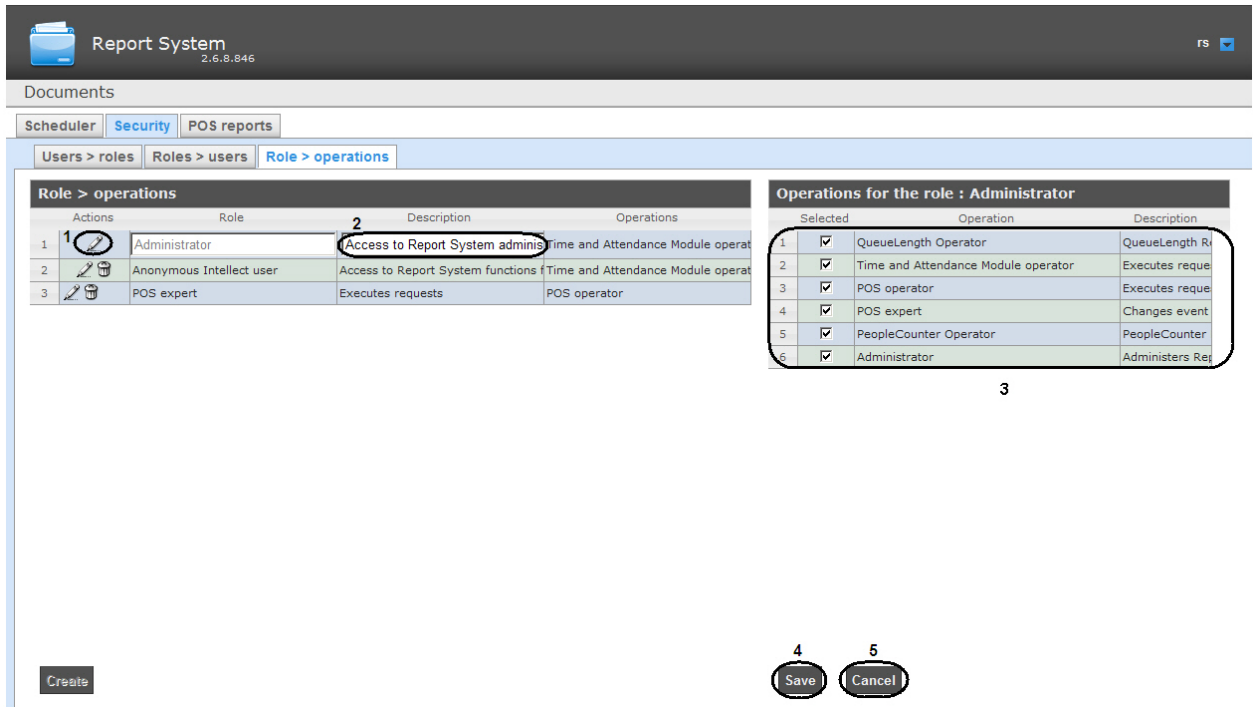
Note.
In order to cancel the registration of a new role click **Cancel** (6).


Role registration in *Intellect Web Report System* is completed.

Role editing

In order to edit a new role do the following:

1. Go to the **Role > operations** tab.



2. For the required role click  button in the **Actions** column of the **Role > operations** table (1).
3. As a result one can edit some role parameters. For example:
 - 3.1 In the **Description** field (2) one can edit a brief description of operations that will be available for users with this role.
 - 3.2 In the **Operations for the role** table (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.
4. In order to save the changes in role parameters click **Save** (4).



Note.

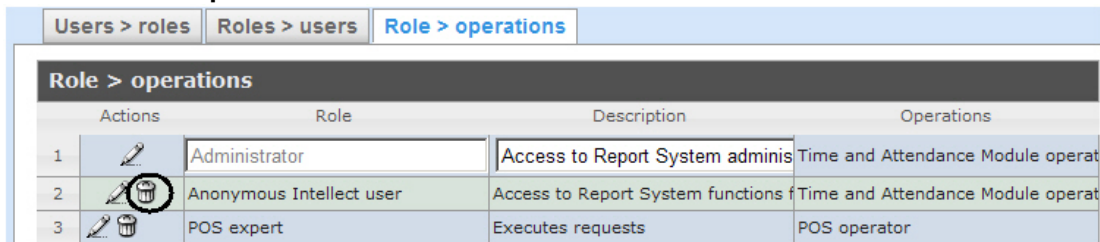
In order to cancel the changes in the role click **Cancel** (5).


Role editing is completed.

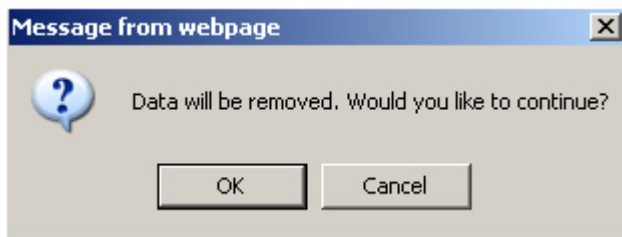
Role removing

In order to remove the role, do the following:

1. Go to the **Role > operations** tab.



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



Role removing is completed.

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 *Intellect Web 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).

Set up the correspondence between the roles and users

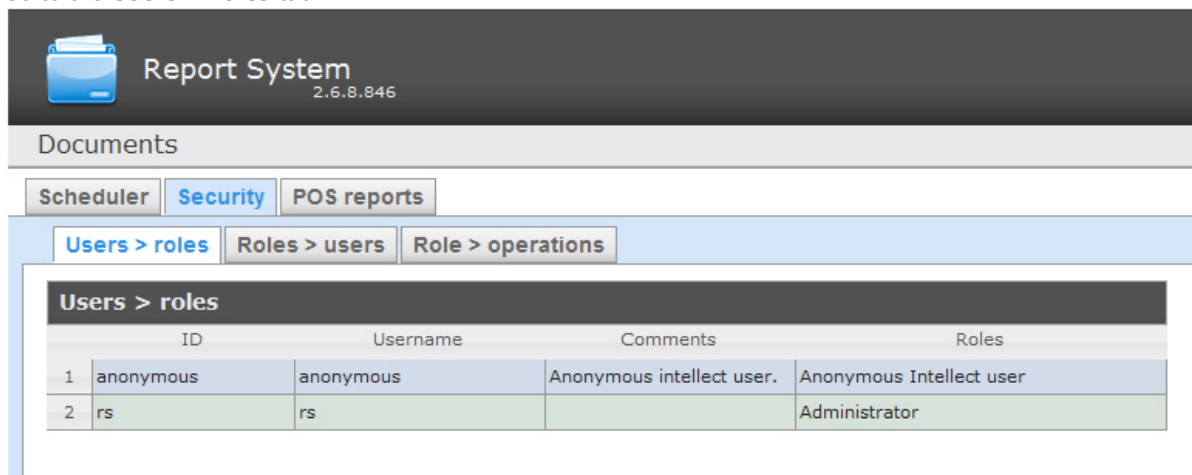
Setting up the correspondence between the roles and users can be carried out in two ways:

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.

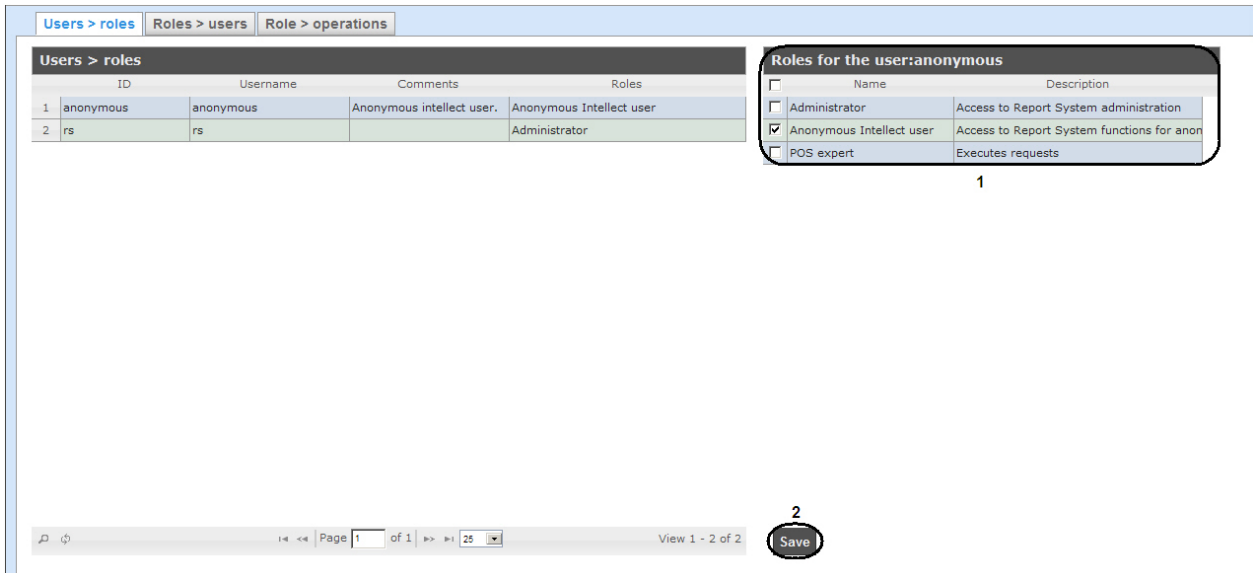
Assigning the roles to the user

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

1. Go to the **Users > roles** tab.



2. Left-click the required user.
3. As a result the **Roles for the user: <username>** table is displayed (1).



- On can change the list of roles assigned to the user by setting or deselecting the corresponding checkboxes (1).

Note. To assign all possible roles to the user set the checkbox in the table head at the **Name** field.

Roles for the user:anonymous		
<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

- Click **Save** (2).

Assigning the roles to the user is completed.

Adding the users to the role

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

- Go to the **Roles > users** tab.

The screenshot shows the 'Roles > users' interface. At the top, there are navigation tabs: 'Users > roles', 'Roles > users', and 'Role > operations'. The main area contains a table with the following data:

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	

- Left-click the required role.
- As a result the **Users in the role: <role name>** table is displayed (1).

Users > roles Roles > users Role > operations

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

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

1

2 Save

Page 1 of 1 25 View 1 - 2 of 2

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

Note.
To add all possible users to the role set the checkbox in the table head at the ID field.

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

5. Click **Save** (2).

Adding the users to the role is completed.

Change the password



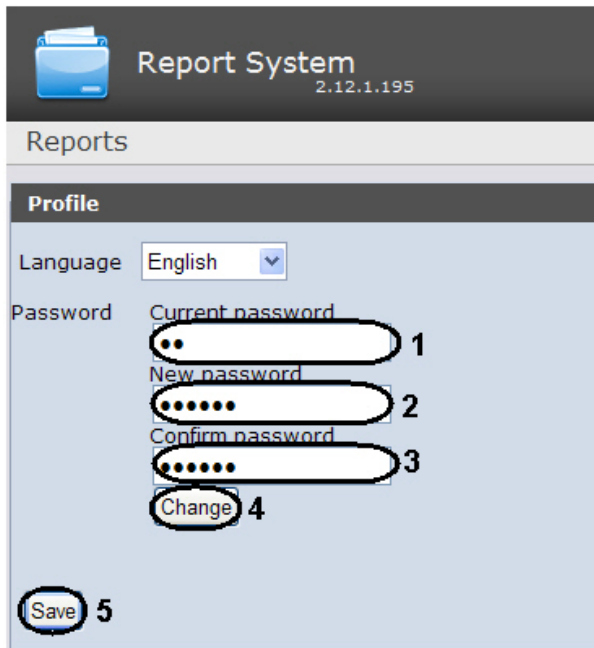
Attention!

The password can be changed in the **Profile** page only for the **rs** user. The password changing for other users is performed only on the **Users** tab of the *Intellect* software.

To change the password for **rs** user login to the *Intellect Web Report System* subsystem, do the following:

1. Go to the user profile page.

2. In the **Password** field click the **Change** button (1).
3. In the **Current password** field enter the current password for login to the *Intellect Web Report System* subsystem (1).



4. In the **New password** field enter the new password for login to the *Intellect Web Report System* subsystem (2).
5. In the **Confirm password** field enter again the new password (3).

Attention!
The new password should contain at least 6 symbols.

6. Click the **Change** button (4).
7. Click the **Save** button to save changes (5).

Changing the password for **rs** user login to the *Intellect Web Report System* subsystem is completed.

Setting up Intellect Web Report System operation in the automatic mode

Intellect Web Report System setting up procedure in the automatic mode

Setting up the *Intellect Web 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 *Intellect Web Report System* operation in the automatic mode.
4. In the **Tasks** tab create the tasks for auto-generating the reports. Start their execution.

SMTP Server setup

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

1. Go to the **Email settings** tab.

2. In the **Email address** field (1) type the e-mail address from which the auto-generated reports will be sent.
3. In the **SMTP Server** field (2) enter the name of SMTP Server.
4. In the **Username** field (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. In the box enter the password.

6. In the **SMTP Server port** field (4) enter the port number used by SMTP Server.
7. If the SSL coding is required to connect the SMTP Server then set the **Enable SSL coding** checkbox (5).
8. Click **Save** (6).

SMTP Server setup is completed.

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).

Making the report

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

1. Go to the **Reports** tab.

2. Click the **New auto-generated report** link.
3. As a result the **New report** form is displayed.

4. In the **Report parameters** group from the **Type of report** list (1) select the required type of report.
5. In the **Name** field (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 (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 (1).

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

8. In order to save the description and new report parameters click **OK** (2).

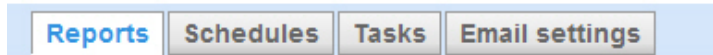
Note.
In order to cancel making the report click **Cancel** (3).

Making the auto-generated report is completed.





Editing the report


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

1. Go to the **Reports** tab.



New auto-generated report

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

2. Click  for the required report in the **Edit** column.
3. As a result the **Edit report** form is displayed. In this form one should edit the description and report parameters by analogy with the **New report** form (see [Making the report](#) section).

A screenshot of the 'Edit report' dialog box. It has a title bar with 'Edit report' and a close button. The form is divided into two main sections: 'Report description' and 'Report parameters'.
Report description: Contains a 'Name' field with 'Hours-worked report' and a 'Description' field.
Report parameters: Contains a 'Type of report' dropdown menu set to 'Detailed general report'. Below it is a table with columns 'Parameter' and 'Value'.

Parameter	Value
Area:	Region 1
Period:	Selected date and time
	8/17/2011
	10:44 AM

At the bottom right of the dialog are 'OK' and 'Cancel' buttons.

4. In order to save the report changes click **OK**.

Note.
In order to cancel the report changes click **Cancel**.

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





Editing the auto-generated report is completed.


Deleting the report

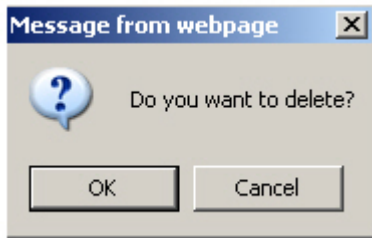
In order to delete the auto-generated report do the following:

1. Go to the **Reports** tab.

New auto-generated report

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

2. Click  for the required report in the **Edit** column.
3. In the appeared window confirm the report deleting by clicking **OK**.



Deleting the auto-generated report is completed.

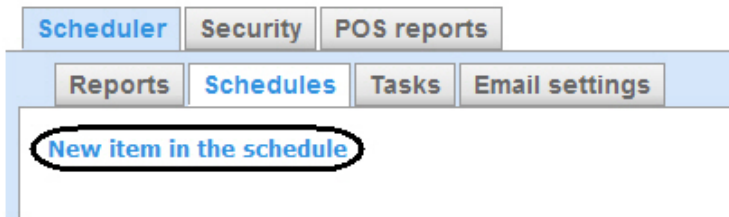
Setting up the schedule of operation in the automatic mode

Setting up the schedule of *Intellect Web 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).

Creating the schedule item

In order to create the schedule item do the following:

1. Go to the **Schedules** tab.



2. Click the **New item in the schedule** link.
3. As a result the **New item in the schedule** form is displayed.

4. In the **Time** group (1) enter the instant approaching which the required reports will be generated automatically.






Note.

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



Note.

In order to set current time it is convenient to use  button (2).

5. 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 (3).
6. As a result the tweaking form of strategy for repeating is displayed (4). The procedure of filling it in is clear.
7. In order to save the schedule item click **OK** (5).



Note.

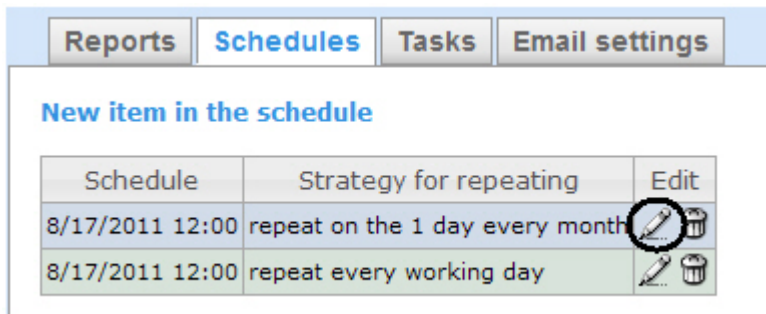
In order to cancel creating of the schedule item click **Cancel** (6).

Creating the schedule item is completed.


Editing the schedule item

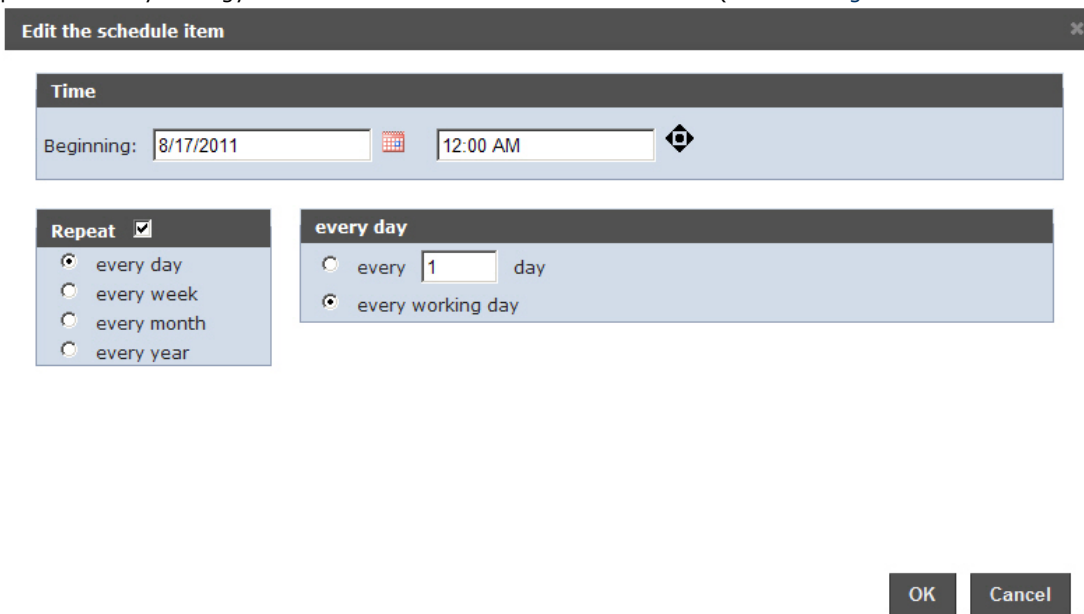
In order to edit the auto-generated report do the following:

1. Go to the **Schedules** tab.



The screenshot shows a software interface with four tabs: Reports, Schedules, Tasks, and Email settings. The Schedules tab is active. Below the tabs is a section titled "New item in the schedule" containing a table with three columns: Schedule, Strategy for repeating, and Edit. The table has two rows. The first row shows "8/17/2011 12:00" for the schedule and "repeat on the 1 day every month" for the strategy. The second row shows "8/17/2011 12:00" for the schedule and "repeat every working day" for the strategy. In the Edit column, the first row has a pencil icon circled in red, and the second row has a trash can icon circled in red.

2. Click  for the required schedule item in the **Edit** column.
3. As a result the **Edit the schedule item** form is displayed. 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).



The screenshot shows a dialog box titled "Edit the schedule item". It has a close button in the top right corner. The "Time" section contains a "Beginning:" label followed by a date field with "8/17/2011", a calendar icon, a time field with "12:00 AM", and a clock icon. Below this is a "Repeat" section with a checked checkbox and four radio button options: "every day", "every week", "every month", and "every year". The "every day" option is selected, and its sub-section is expanded to show "every 1 day" (with a text input field containing "1") and "every working day" (which is also selected).

4. In order to save the changes in the schedule item click **OK**.



Note.

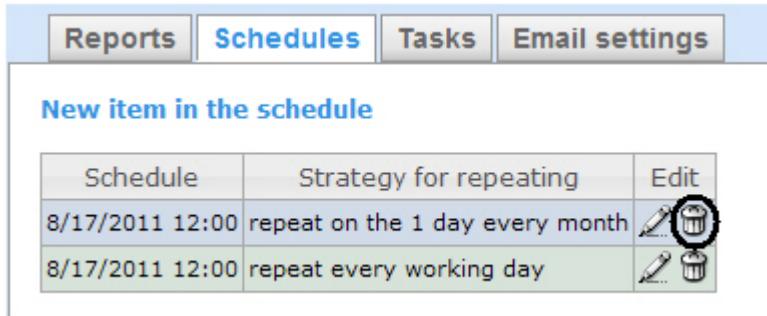
In order to cancel the changes in the schedule item click **Cancel**.

Editing the schedule item is completed.

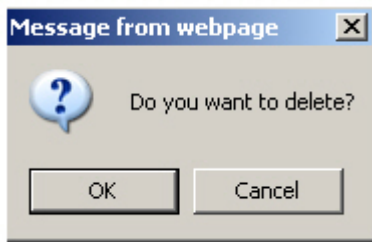
Deleting the schedule item

In order to delete the schedule item do the following:

1. Go to the **Schedules** tab.



2. Click for the required schedule item in the **Edit** column.
3. In the appeared window confirm the schedule item deleting by clicking **OK**.



Deleting the schedule item is completed.

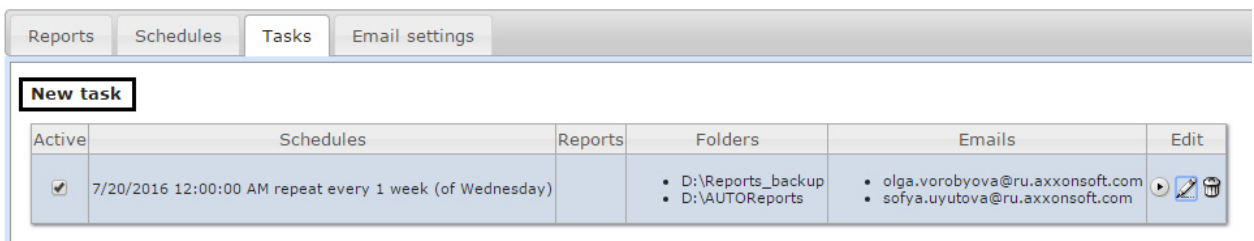
Setting up the automatically executed tasks

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.

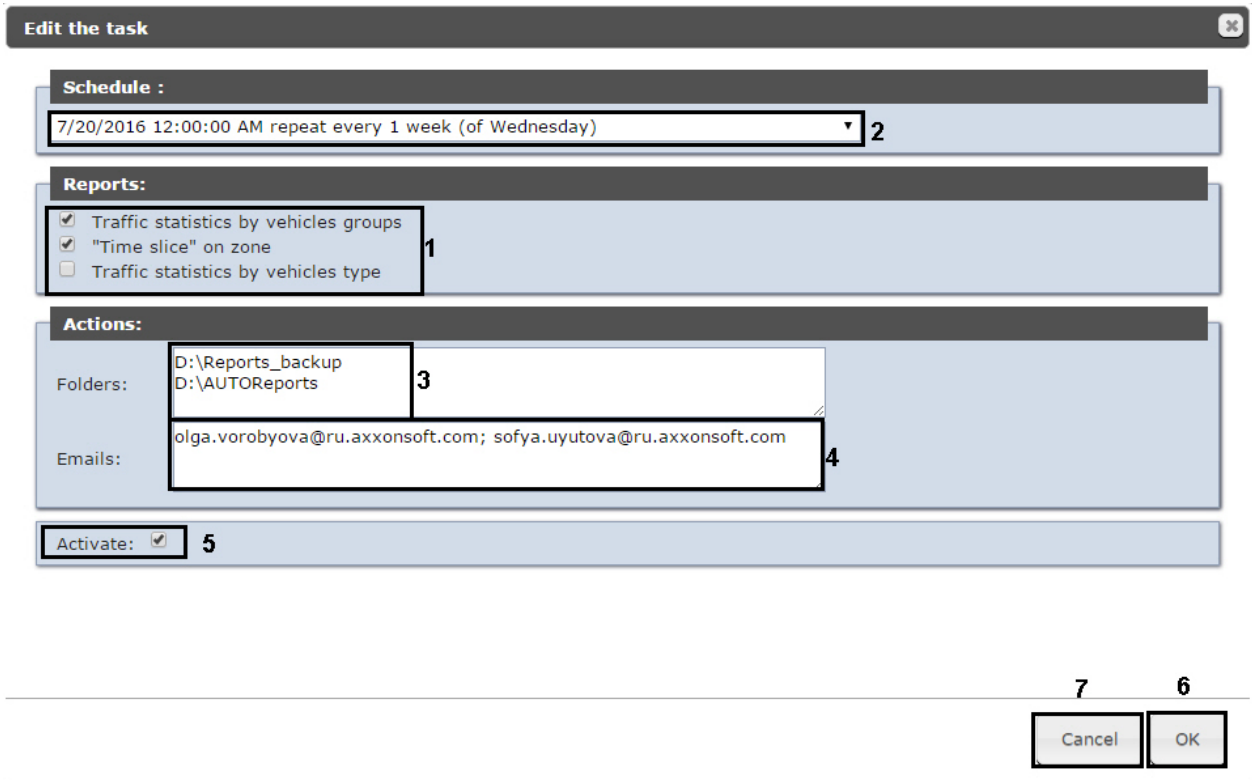
Creating the task

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

1. Go to the **Tasks** tab.



2. Click the **New task** link.
3. As a result the **New task** form is displayed.



4. In the **Reports** group (1) select the reports that should be auto-generated by setting the checkboxes.
5. From the **Schedule** list (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 **Folders** field (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.
 - 6.2 In the **Emails** field (4) enter the email addresses to which the generated reports should be sent. Use ";" sign as a separator.

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

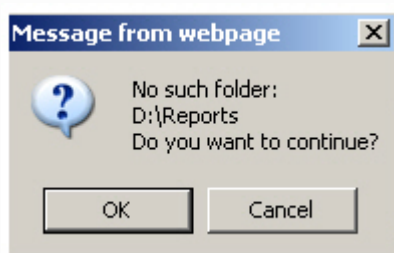
7. In order to run the task execution right after its creation set the **Activate** checkbox (5).

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

8. In order to save the task parameters click **OK** (6).

Note.
In order to cancel the task creation click **Cancel** (7).

Note.
If there are no folders that are set at 6.1 step then the following message is displayed when the task parameters are saved. In order to auto create folders click **OK**.




Creating the automatically executed task is completed.

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:

1. Go to the **Tasks** tab.

Reports	Schedules	Tasks	Email settings		
New task					
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	  

2. For the required task click  in the **Edit** column.
3. 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.

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.

Reports	Schedules	Tasks	Email settings		
New task					
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	  






2. In the **Active** column 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.

Editing the task

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

1. Go to the **Tasks** tab.

Reports	Schedules	Tasks	Email settings		
New task					
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	  

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

Edit the task✕

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

Reports:
 Latecomers report

Actions:

Folders:	D:/reports share	▲	▼
Emails:	mail@axxonsoft.com	▲	▼

Activate:

OK

Cancel

4. In order to save the changes click **OK**.

Note.
In order to cancel the changes in the task click **Cancel**.

Editing the auto-executed task is completed.

Deleting the task

In order to delete the task do the following:

1. Go to the **Tasks** tab.

Reports	Schedules	Tasks	Email settings		
New task					
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	▶ ✎ 🗑️

2. For the required task click in the **Edit** column.
3. In the appeared box confirm the task deleting by clicking **OK**.

Message from webpage ✕

?

Do you want to delete?

OK

Cancel

Deleting the task is completed.

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.

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 *Intellect Web Report System* users.

In order to import users do the following:

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

Documents			
Scheduler Security POS reports			
Import operators Statuses Groups of statuses Event filter Layout			
Users			
	Username	User status	Imported
1	anonymous	Found	<input checked="" type="checkbox"/>
2	rs	Found	<input checked="" type="checkbox"/>

2. The list of users registered in *Intellect Web 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.
3. In order to import remaining users click **Import**.

Users import into the list of POS operators is completed.

Setting up the cashiers list in the POS reports

The list of all cashiers from the database is displayed in the **Cashiers** tab.

To display only working cashiers in the panel of cashiers report or report by suspicious events it is possible to specify their hiring and firing dates. In this case fired cashiers won't be able to select while report creating.

In order to specify hiring and firing dates, do the following:

1. Go to the **Cashiers** tab.
2. Select cashier for which information about hiring and firing dates should be entered.

Scheduler Security POS reports			
Import operators Cashiers Statuses Groups of statuses Event filters Layout Inventory Settings of parameters			
Cashiers			
ID	Full name	Hired	Fired
Bill Smith	Bill Smith		
Carlton Cole	Carlton Cole		
Jeff Carter	Jeff Carter		
Joe Black	Joe Black	2015-07-14	
John Dawson	John Dawson		
John Pisani	John Pisani		
Lisa Young	Lisa Young		
Mary Ashley	Mary Ashley		
Max Lopez	Max Lopez		
Natalie Moore	Natalie Moore		

3. Specify date of hiring using the **Calendar** tool in the area (1).
4. Specify date of firing using the **Calendar** tool in the area (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 *Intellect Web Report System*:

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

Documents

Scheduler Security **POS reports**

Import operators **Statuses** Groups of statuses Event filter Layout

Statuses

Actions	In use	Name	Description	Background c	Text color
1	<input checked="" type="checkbox"/>	Event not processed (by default)		#858585	#000000
2	<input checked="" type="checkbox"/>	Non-violation		#2D9518	#000000
3	<input checked="" type="checkbox"/>	Possibly violation		#DAE042	#000000
4	<input checked="" type="checkbox"/>	Minor violation detected		#E9962B	#000000
5	<input checked="" type="checkbox"/>	Moderate violation detected		#F34320	#000000
6	<input checked="" type="checkbox"/>	Serious violation detected		#6B1E0E	#000000

Create

One can create user statuses and edit all existing ones.

Creating the user status

In order to create the user status do the following:

1. Go to the **Statuses** tab.

Documents


Scheduler Security **POS reports**






















Import operators **Statuses** Groups of statuses Event filter Layout

Statuses

Actions	In use	Name	Description	Background c	Text color
1	<input checked="" type="checkbox"/>	Event not processed (by default)		#858585	#000000
2	<input checked="" type="checkbox"/>	Non-violation		#2D9518	#000000
3	<input checked="" type="checkbox"/>	Possibly violation		#DAE042	#000000
4	<input checked="" type="checkbox"/>	Minor violation detected		#E9962B	#000000
5	<input checked="" type="checkbox"/>	Moderate violation detected		#F34320	#000000
6	<input checked="" type="checkbox"/>	Serious violation detected		#6B1E0E	#000000
7	<input type="checkbox"/>	New status		#FFFFFF	#000000


Create 1

2. Click **Create** (1).
3. As a result a new line is added to the **Statuses** table.
4. In the **Name** field (2) enter a status name.
5. In the **Description** field (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 (4) or use a color selection window. In the latter case left-click in the **Background color** field (4) and set the necessary color in the appeared window (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 (6).
8. If it is necessary to use the status after its creation then set the checkbox checked in the **In use** column.

Statuses			
	Actions	In use	Name
1	  	<input checked="" type="checkbox"/>	Event not processed (by default)
2	  	<input checked="" type="checkbox"/>	Non-violation
3	  	<input checked="" type="checkbox"/>	Possibly violation
4	  	<input checked="" type="checkbox"/>	Minor violation detected
5	  	<input checked="" type="checkbox"/>	Moderate violation detected
6	  	<input checked="" type="checkbox"/>	Serious violation detected
7	  	<input type="checkbox"/>	New status

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

9. In order to save the status click  (7) in the **Actions** column.






















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



User status creating is completed.


Editing the status

In order to edit a status do the following:

1. Go to the **Statuses** tab.

Statuses						
	Actions	In use	Name	Description	Background	Text color
1	  	<input checked="" type="checkbox"/>	Event not processed (by default)		#858585	#000000
2	  	<input checked="" type="checkbox"/>	Non-violation		#2D9518	#000000
3	  	<input checked="" type="checkbox"/>	Possibly violation		#DAE042	#000000
4	  	<input checked="" type="checkbox"/>	Minor violation detected		#E9962B	#000000
5	  	<input checked="" type="checkbox"/>	Moderate violation detected		#F34320	#000000
6	  	<input checked="" type="checkbox"/>	Serious violation detected		#E81E0E	#000000
7	  	<input type="checkbox"/>	New status		#C21F62	#000000

- Click  for a required status in the **Actions** column.
- As a result it will be possible to edit a status. 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.

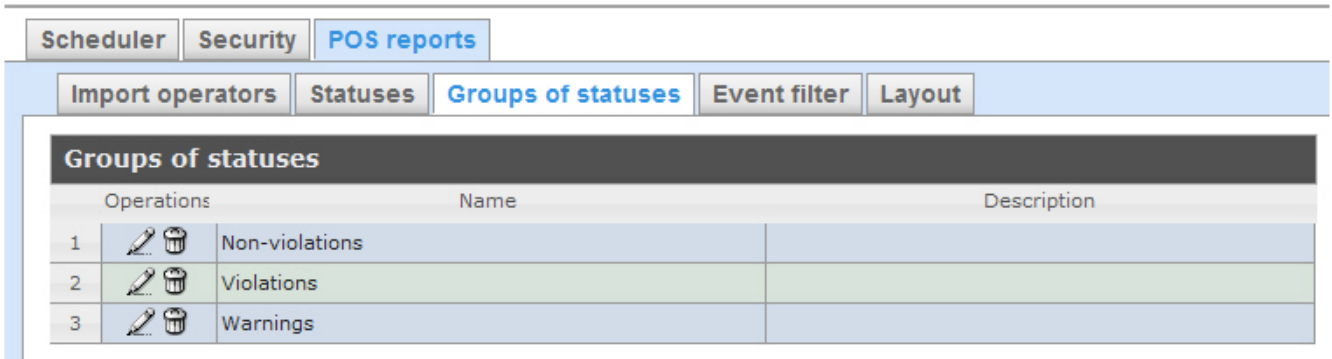
Note. In order to cancel the changes in the status click  in the same column.

Status editing is completed.

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 *Intellect Web 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.



By default three groups of statuses of POS events are already created in *Intellect Web Report System*.

Groups of statuses of POS events are presented in the following table.

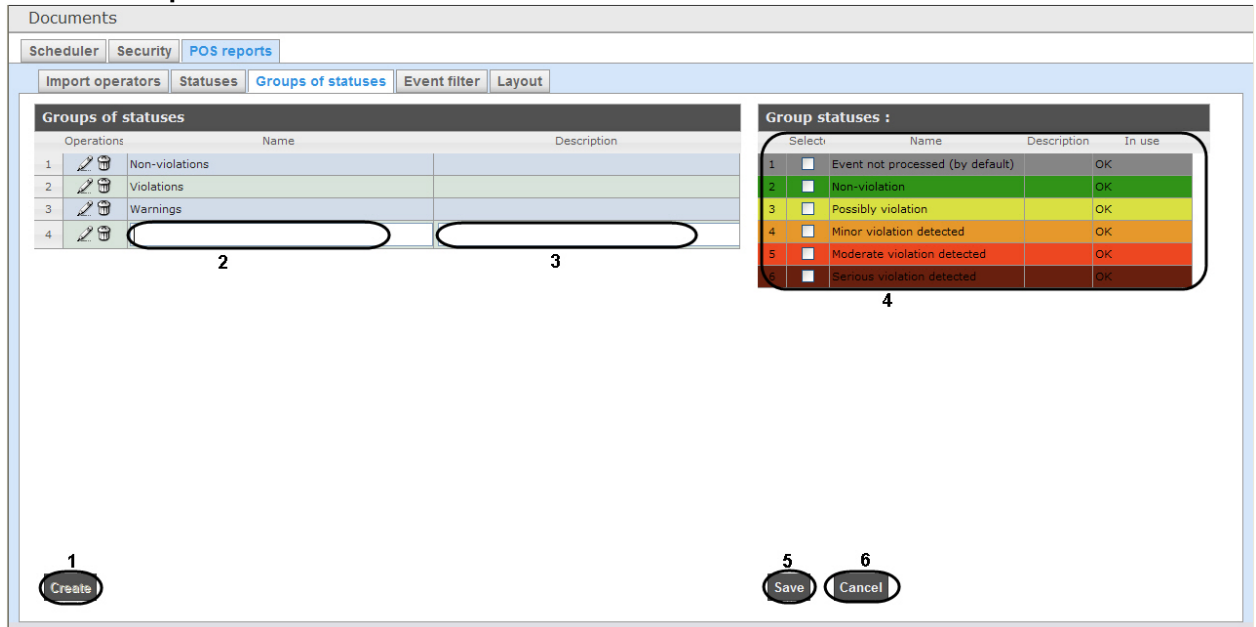
Group of statuses	Statuses
Non-violations	Non-violation
Violations	Minor violation detected
	Moderate violation detected
	Serious violation detected
Warnings	Event not processed
	Possibly violation

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

Creating a group of statuses

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

1. Go to the **Groups of statuses** tab.



2. Click **Create** (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 (2).
 - 3.2 In the **Description** field enter a short description of a group of statuses (3).



Note.

This field is optional for filling in.

4. In the **Selected** column of the **Group statuses** table (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.

- In order to save parameters of a new group of statuses click **Save (5)**.

**Note.**

In order to cancel the creating a new group of statuses click **Cancel (6)**.

Creating a new group of statuses is completed.

Editing a group of statuses

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

- Go to the **Groups of statuses** tab.

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

- For the required group of statuses click in the **Operations** column.
- 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.

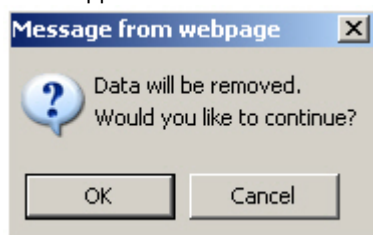
Deleting a group of statuses

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

- Go to the **Groups of statuses** tab.

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

- For the required group of statuses click in the **Operations** column.
- In the appeared window confirm deleting a group of statuses by clicking **OK**.

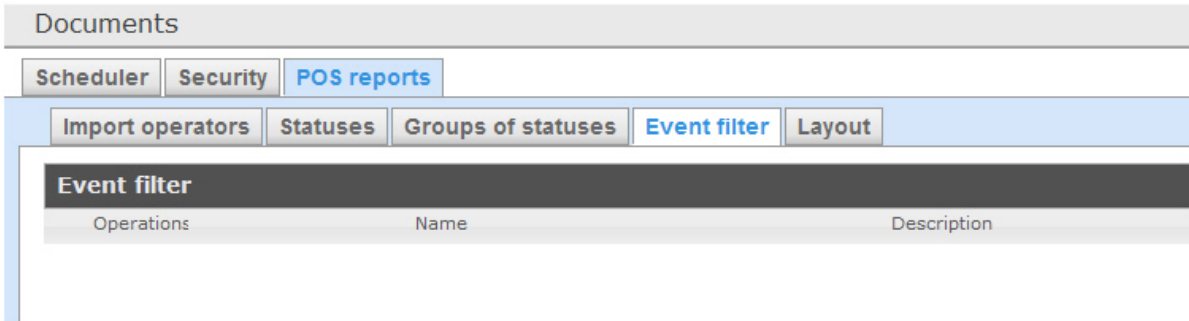


Deleting a group of statuses is completed.

Setting up the filter of 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.



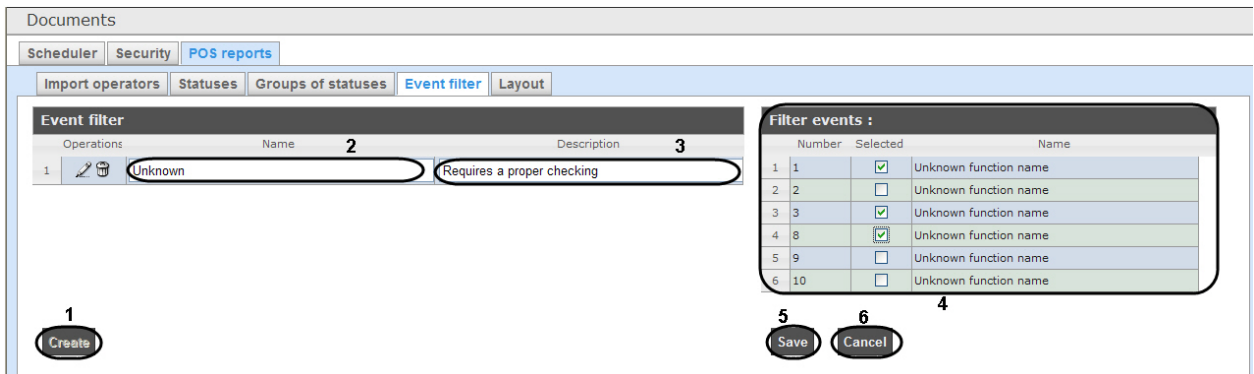
By default none filters are created in *Intellect Web Report System*.

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

Creating a filter of events

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

1. Go to the **Event filter** tab.



2. Click **Create** (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 (2).
 - 3.2 In the **Description** field enter a short description of a filter of events (3).

Note.
This field is optional for filling in.

4. In the **Selected** column of the **Event filter** table (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** (5).

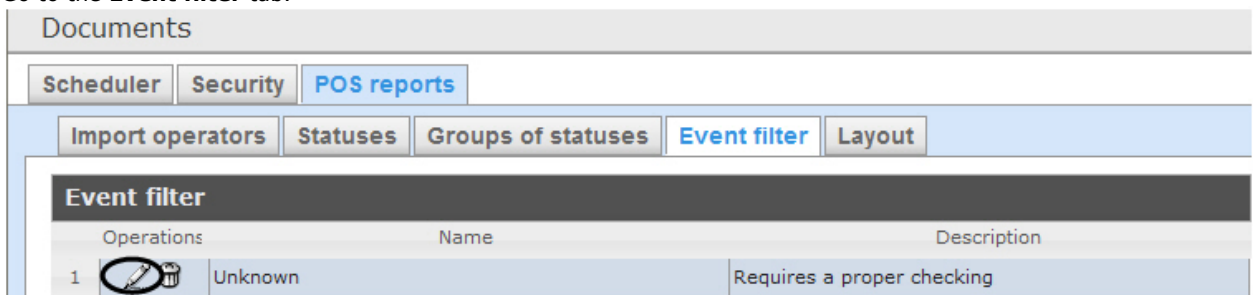
Note.
In order to cancel the creating a new filter of events click **Cancel** (6).


Creating a new filter of events is completed.

Editing a filter of events

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

1. Go to the **Event filter** tab.



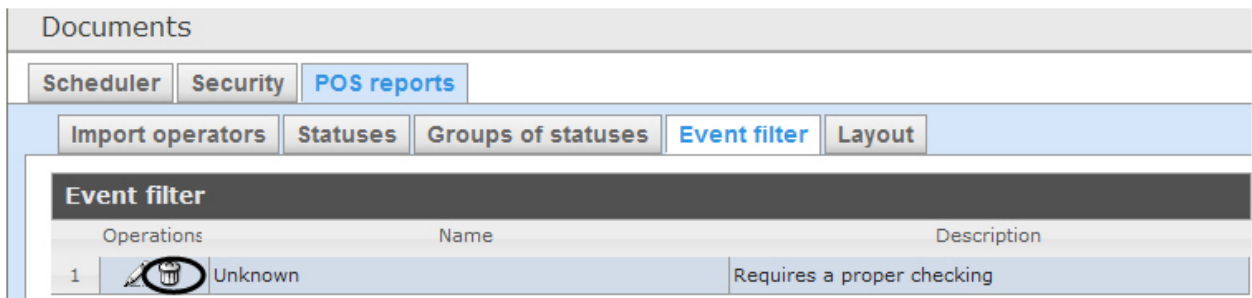
2. For the required filter of events click  in the **Operations** column.
3. As a result it will be possible to edit all parameters of a filter of events. One can edit the filter of events by analogy with its creation (see [Creating a filter of events](#) section).


Editing a filter of events is completed.

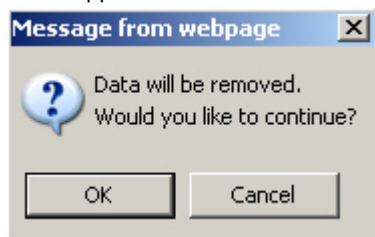
Deleting a filter of events

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

1. Go to the **Event filter** tab.



2. For the required filter of events click  in the **Operations** column.
3. In the appeared window confirm deleting a filter of events by clicking **OK**.

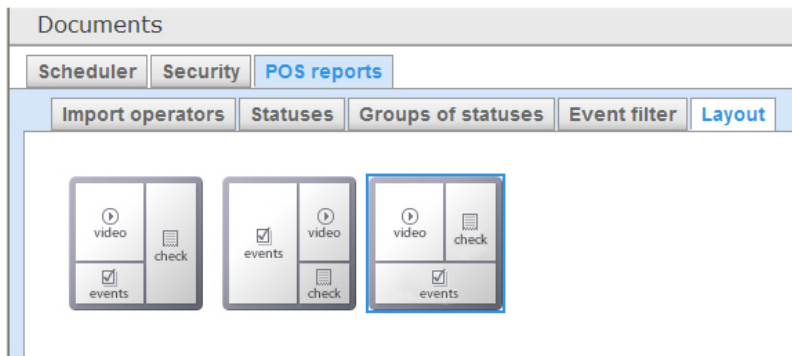


Deleting a filter of events is completed.

Selecting layouts in POS reports

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

Selecting the layouts POS events is carried out in the **Layout** tab.



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

Select the needed layout by clicking the left mouse button.

Selecting items for report creating

Selecting items by which the report by suspicious events is created is performed in the **Inventory** tab.

Reports

Scheduler Security **POS reports**

Import operators Cashiers Statuses Groups of statuses Event filters Layout Inventory Settings of parameters

Selected goods will be used while searching by potential violations

	Code	Name	Price	Selected
1	1206	Package (small) 1item	2	<input checked="" type="checkbox"/>
2	1347	Banannas - 1kg	42.9	<input checked="" type="checkbox"/>
3	1869	Cheese 50% 1kg	248.9	<input checked="" type="checkbox"/>
4	23807	Dried apricots	25.1	<input checked="" type="checkbox"/>
5	31157	Instant noodles	9.3	<input type="checkbox"/>
6	28173	Meat 1kg	139.9	<input checked="" type="checkbox"/>
7	28579	Pastry	45.6	<input checked="" type="checkbox"/>
8	28791	Pastry 1kg	75.7	<input type="checkbox"/>
9	29505	Ice cream	36.3	<input checked="" type="checkbox"/>
10	3074	Codfish 500g	128.7	<input type="checkbox"/>

Set a checkbox close to the required name to select this item.

Setting up parameters of report by potential violations

Setting up parameters of report by potential violations is performed on the **Settings of parameters** tab.


Reports

Scheduler Security **POS reports**

Import operators Cashiers Statuses Groups of statuses Event filters Layout Inventory **Settings of parameters**

Report by potential violations

Cancellation of all the goods in the check followed by the addition of positions on the same receipt	<input type="checkbox"/>				
Unauthorized reduction in the price of the goods	<input type="checkbox"/>				
Unauthorized increase in the price of the goods	<input type="checkbox"/>				
Intended ignoring some goods	<input type="checkbox"/>				
Intended change of how the goods look	<input type="checkbox"/>				
Erroneous double scanning	<input type="checkbox"/>				
DISABLED: Unintended change of how the goods look ("Enter product code" number needed)	<input type="checkbox"/>				
Ignoring some goods while scanning	<input type="checkbox"/>				
<table border="1"> <thead> <tr> <th>Parameter</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Timeout</td> <td>90 <input type="text"/></td> </tr> </tbody> </table>	Parameter	Value	Timeout	90 <input type="text"/>	<input type="checkbox"/>
Parameter	Value				
Timeout	90 <input type="text"/>				
Errors while canceling the quantity of goods	<input type="checkbox"/>				
Cash register reset by the cashier	<input type="checkbox"/>				
Not giving the receipt to the customer	<input type="checkbox"/>				
<table border="1"> <thead> <tr> <th>Parameter</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Timeout</td> <td>90 <input type="text"/></td> </tr> </tbody> </table>	Parameter	Value	Timeout	90 <input type="text"/>	<input type="checkbox"/>
Parameter	Value				
Timeout	90 <input type="text"/>				
Recounting contents of the cash register	<input type="checkbox"/>				
<table border="1"> <thead> <tr> <th>Parameter</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Timeout</td> <td>90 <input type="text"/></td> </tr> </tbody> </table>	Parameter	Value	Timeout	90 <input type="text"/>	<input type="checkbox"/>
Parameter	Value				
Timeout	90 <input type="text"/>				
Intended reduction in the number of the goods	<input type="checkbox"/>				
Cancellation of the receipt when the administrator is absent	<input type="checkbox"/>				
Intended ignoring some goods using the "Product info" button	<input type="checkbox"/>				

Click the  sign close to the corresponding violation to disable it for selecting while creating the report by potential violations.



Note.

Report by **Unintended change of how the goods look** violation type is not available to create. To enable this violation type refer to the technical support department of the *AxxonSoft* company.

Setting up the Visitors behavior reports

It is possible to create *Visitors behavior reports* in the *Intellect Web Report System* the following ways:

1. Locally – working of heat map detections and creating the visitors behavior reports are performed on the same computer.
2. Centrally – data from remote heat map detections received on the general server on which the visitor behavior reports are created.

Detailed information about ways of creating the visitor behavior reports is presented in the [Installing required program modules to create Visitors behavior analysis reports](#) of the *Analytics Pack* subsystem. *User Guide* document.

Setting up the Time and Attendance reports

Setting up the Time and Attendance reports is performed in the **Time and Attendance reports** tab on the administration page.

Time and Attendance reports setup consists of configuring user access to departments.

To configure user access to departments do the following:

1. Go to the **Time and Attendance reports** tab.

ID	Username	Comments
1	anonymous	Anonymous intellect user.
2	rs	

Department / subdivision
<input type="checkbox"/>
<input checked="" type="checkbox"/> Development department
<input checked="" type="checkbox"/> Marketing
<input checked="" type="checkbox"/> Quality Control
<input checked="" type="checkbox"/> Sales department
<input checked="" type="checkbox"/> Tech.department
<input checked="" type="checkbox"/> Tech.support

2. In the **Users** table select user for which access is to be configured (1).
3. The list of available departments for the selected user is displayed in the **Access to user department** table (2).



Note.

Only departments selected while configuring the *Time and Attendance* program module display in the **Access to user department** table

4. Set checkboxes close to departments to which access will be allowed for the selected user.
5. Click the **Save** button (3).
6. Repeat steps 2-5 for all users.

Configuring of user access to departments is completed.

Working with Intellect Web Report System

Working with *Intellect Web Report System* is performed on the document page (see [Intellect Web Report System interface](#) section).

Opportunities of the *Intellect Web Report System* are described in the [Purpose of Intellect Web Report System](#) section.

Working with POS reports

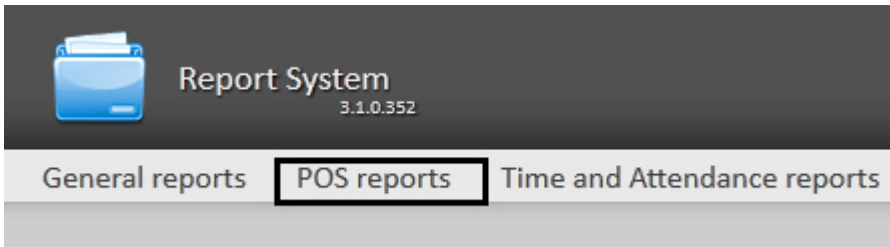
POS reports are created by the local database of the *Intellect* software package, but it is also possible to use data from remote servers. Configuration of database replication is needed (see *POS-Intellect Software Package. Administrator's guide* document, *Configuring the POS-replicator system object*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

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

General reports

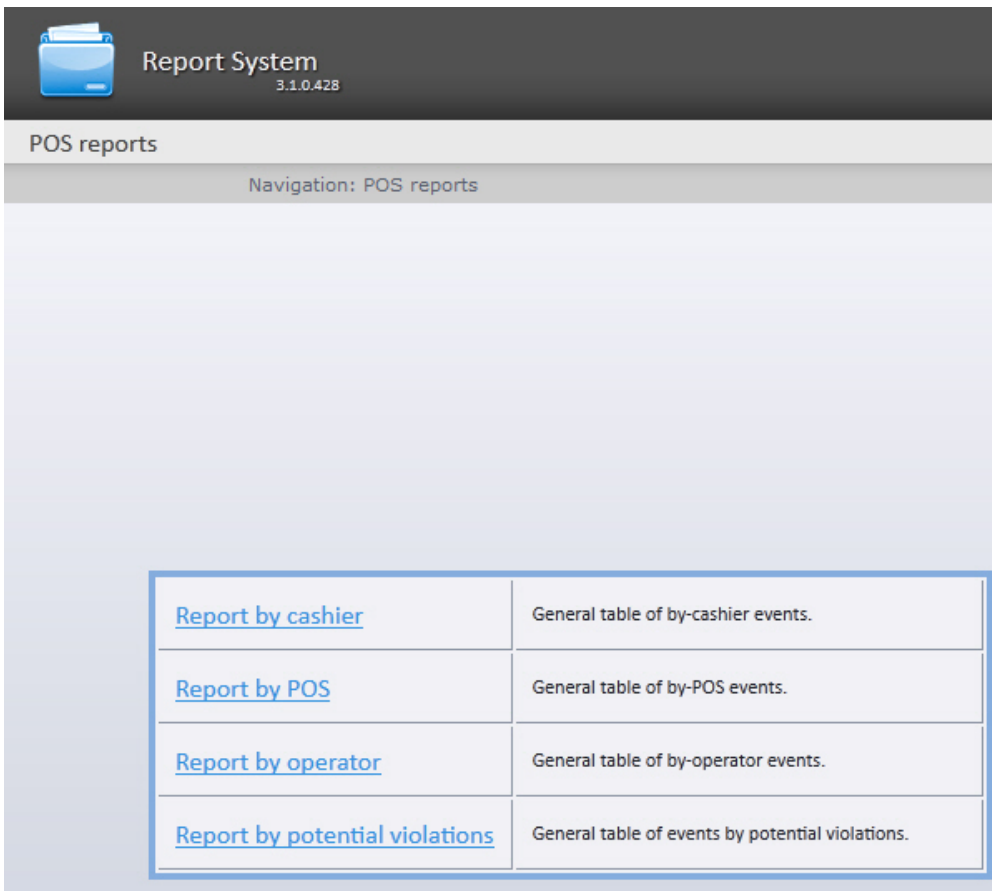
Selecting a type of general POS report

In order to select type of general POS report click **POS reports** in the menu of reports.



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

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;
4. Report by potential violations is a general table by potential violations.

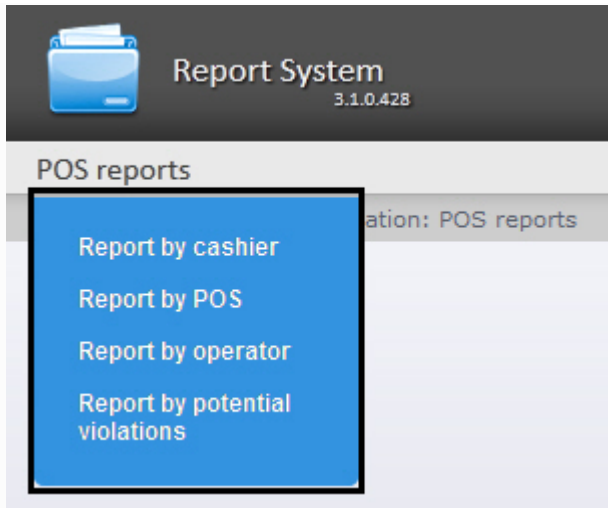


In order to switch to the required report click the corresponding link.



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.



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).

Navigation: [POS reports](#) > Report by cashier



Report by cashier

Parameter	Value
Choose:	All, None 2
Cashiers:	<input checked="" type="checkbox"/> Bill Smith 1
Events:	[all] 3 4
Period:	User defined 2 from 10/30/2015 14:24 to 10/30/2015 14:24
Status group:	[all] 5

Execute **6**

2. Select cashier by whom it is necessary to display a report by setting corresponding checkboxes checked in the list (**1**).

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

3. Specify a filter of those events that should be displayed in a report (**3**). If **All** is selected then filter of events is not considered and report is created by all events.
4. Specify the period in the following way:
 - a. From the **Period:** drop-down list select the time period for which the report is to be created (**4**).
 - b. 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. Click the  button near the corresponding field to use the **Calendar** tool.
 - c. If the **User defined 2** period is selected, enter additionally the time of start and end periods for which the report is to be created using the  button.
If another period type is selected, specifying the date of start and end periods is not needed.
5. Specify a group of statuses of those events that should be displayed in a report (**5**). If **All** is selected then all POS reports are displayed regardless of their status.
6. Click **Execute** (**6**).

As a result a general table of by-cashier events (according to the parameters) is displayed. 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.

Navigation: [POS reports](#) > [Report by cashier](#) > General report

Status group: Events:

Number	Name	Total	Bill Smith
1	User deregistration	10	10
2	Start	87	87
3	End	96	96
4	Addition of good to document	295	295
5	Change prise of good in document	33	33
6	Discounting (extra price) of good	120	120
7	Payment	87	87
8	Total	97	97
9	Payment	97	97
10	Document printing	97	97

Save

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

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).

Report by POS

Parameter	Value
POS:	Choose: All, None 2 <div style="border: 1px solid black; padding: 5px; width: fit-content;"> + <input checked="" type="checkbox"/> Shop 1 1 + <input checked="" type="checkbox"/> Shop 2 </div>
Events:	[all] 3 4
Period:	User defined 2 ▼ from 10/30/2015 14:31 to 10/30/2015 14:31
Status group:	[all] 5

Execute **6**

- Select POS terminals (cash desks) by which it is necessary to display a report by setting corresponding checkboxes checked in the list (1).

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

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

- Specify a filter of those events that should be displayed in a report (3). If **All** is selected then filter of events is not considered and report is created by all events.
- Specify the period in the following way:
 - From the **Period:** drop-down list select the time period for which the report is to be created (4).
 - 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. Click the button near the corresponding field to use the **Calendar** tool.
 - If the **User defined 2** period is selected, enter additionally the time of start and end periods for which the report is to be created using the button.
If another period type is selected, specifying the date of start and end periods is not needed.
- Specify a group of statuses of those events that should be displayed in a report (5). If **All** is selected then all events are displayed regardless of their status.
- Click **Execute** (6).

As a result a general table of by POS events (according to the parameters) is displayed. 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.

Status group: [all] Events: [all]

Number	Name	Total	POS terminal 1
1	User deregistration	<u>130</u>	<u>130</u>
2	Start	<u>1069</u>	<u>1069</u>
3	End	<u>1194</u>	<u>1194</u>
4	Addition of good to document	<u>3594</u>	<u>3594</u>
5	Change prise of good in document	<u>393</u>	<u>393</u>
6	Discounting (extra price) of good	<u>1452</u>	<u>1452</u>
7	Payment	<u>1064</u>	<u>1064</u>
8	Total	<u>1195</u>	<u>1195</u>
9	Payment	<u>1194</u>	<u>1194</u>
10	Document printing	<u>1194</u>	<u>1194</u>

Save

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

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:

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

Report by operator



Parameter	Value
Operators:	Choose: All, None 2 <input checked="" type="checkbox"/> anonymous 1 <input checked="" type="checkbox"/> rs
Events:	[all] 3 4
Period:	User defined 2 4 from 10/30/2015 14:35 to 10/30/2015 14:35
Status group:	[all] 5

Execute **6**

2. Select POS operators by which it is necessary to display a report by setting corresponding checkboxes checked in the list (1).

Note.

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

3. Specify a group of those events that should be displayed in a report (3). If **All** is selected then filter of events is not considered and report is created by all events.
4. Specify the period in the following way:
 - a. From the **Period:** drop-down list select the time period for which the report is to be created (4).
 - b. 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. Click the  button near the corresponding field to use the **Calendar** tool.
 - c. If the **User defined 2** period is selected, enter additionally the time of start and end periods for which the report is to be created using the  button.
If another period type is selected, specifying the date of start and end periods is not needed.
5. Specify a group of statuses of those events that should be displayed in a report (5). If **All** is selected then all events are displayed regardless of their status.
6. Click **Execute** (6).

As a result a general table of by-operator events (according to the parameters) is displayed. 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.

Status group: [all] Events: [all]

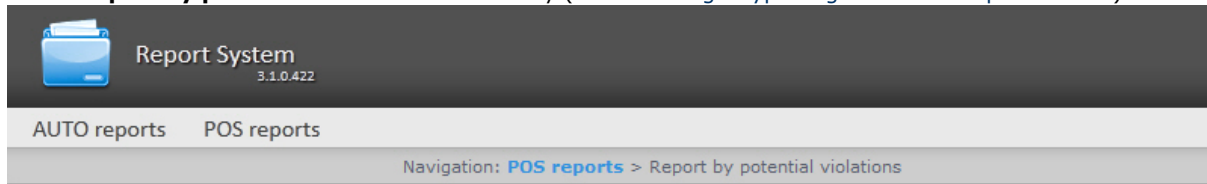
Number	Name	Total	rs
1	User deregistration	4	4

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

Report by potential violations

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

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





Report by potential violations

Parameter	Value
Cashiers:	Choose: All, None 2 <div style="border: 1px solid black; padding: 5px;"> <input checked="" type="checkbox"/> Bill Smith <input checked="" type="checkbox"/> Carlton Cole <input checked="" type="checkbox"/> Jeff Carter <input checked="" type="checkbox"/> Joe Black <input checked="" type="checkbox"/> John Dawson 1 <input checked="" type="checkbox"/> John Pisani <input checked="" type="checkbox"/> Lisa Young <input checked="" type="checkbox"/> Mary Ashley <input checked="" type="checkbox"/> Max Lopez <input checked="" type="checkbox"/> Natalie Moore </div>
Violation:	[all] 3
Description:	
Procedure:	
Display data by processing time:	<input type="checkbox"/> 4
Period:	Selected day 05/15/2007 5
Status group:	[all] 6
Execute 7	

2. Select cashiers by whom it is necessary to display a report by setting corresponding checkboxes checked in the list **(1)**.

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

3. Select potential violations which should be displayed in a report **(3)**. If **All** is selected then all types of violations will be displayed in a report.
4. Set the **Display data by processing time:** checkbox to add time wasted by operator for choosing the event status **(4)**. Time between selecting the string in the detailed report and changing the event status of this string is counted.
5. Specify the period in the following way:
 - a. From the **Period:** drop-down list select the time period for which the report is to be created **(5)**.
 - b. 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. Click the  button near the corresponding field to use the **Calendar** tool.
 - c. If the **User defined 2** period is selected, enter additionally the time of start and end periods for which the report is to be created using the  button.
 If another period type is selected, specifying the date of start and end periods is not needed.
6. Enter a period of time (in minutes) between load values in the **Step (min.)** field **(2)**. The average values of queue length for the specified interval are displayed in the report.
7. Specify a group of statuses of those potential violations that should be displayed in a report **(6)**. If **All** is selected then all violations are displayed regardless of their status.
8. Click **Execute** **(7)**.

As a result a general table of potential violations according to the specified parameters is displayed. In the **Total** column the total amount of potential violations is displayed by their type. In the column called by cashier name the amount of potential violations registered for this cashier is displayed by their type.

POS reports

Navigation: [POS reports](#) > [Report by potential violations](#) > General report

Status group: ▼

	Name	Total	Bill Smith
❗	Cancellation of all the goods in the check followed by the addition of positions on the same receipt	0 (0:00)	0 (0:00)
❗	Unauthorized reduction in the price of the goods	1030 (0:28)	1030 (0:28)
❗	Unauthorized increase in the price of the goods	1030 (0:28)	1030 (0:28)
❗	Intended ignoring some goods	350 (0:00)	350 (0:00)
❗	Intended change of how the goods look	1261 (0:00)	1261 (0:00)
❗	Erroneous double scanning	0 (0:00)	0 (0:00)
❗	DISABLED: Unintended change of how the goods look ("Enter product code" number needed)	0 (0:00)	0 (0:00)
❗	Ignoring some goods while scanning	0 (0:00)	0 (0:00)
❗	Errors while canceling the quantity of goods	0 (0:00)	0 (0:00)
❗	Cash register reset by the cashier	0 (0:00)	0 (0:00)
❗	Not giving the receipt to the customer	0 (0:00)	0 (0:00)
❗	Recounting contents of the cash register	1 (0:00)	1 (0:00)
❗	Intended reduction in the number of the goods	0 (0:00)	0 (0:00)
❗	Cancellation of the receipt when the administrator is absent	0 (0:00)	0 (0:00)
❗	Intended ignoring some goods using the "Product info" button	0 (0:00)	0 (0:00)

Save

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

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).

Viewing a detailed report

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

1. Display a corresponding general report.

Status group: Events:

Number	Name	Total	POS terminal 1
1	User deregistration	26	26
2	Start	213	213
3	End	238	238
4	Addition of good to document	712	712
5	Change prise of good in document	78	78
6	Discounting (extra price) for good	288	288
7	Payment	212	212
8	Total	238	238
9	Payment	238	238
10	Document printing	238	238

Save

- Click the link in the cell corresponding to a necessary event and a cashier/POS terminal/ POS operator. To display a detailed report by event for all cashiers/POS terminals/ POS operators click the corresponding link in the **Total** cell.

Number	Name	Total	POS terminal 1
1	User deregistration	26	26
2	Start	213	213
3	End	238	238
4	Addition of good to document	712	712
5	Change prise of good in document	78	78
6	Discounting (extra price) for good	288	288
7	Payment	212	212
8	Total	238	238
9	Payment	238	238
10	Document printing	238	238

- As a result the required detailed report by event is displayed.

Report System 3.1.0.474

AUTO reports General reports Visitors behavior analysis People Counter detectors POS reports Queue Length detectors Time and Attendance reports

Navigation: POS reports > Report by POS > General report > Detailed report

Choose event to see the receipt contents

Events: Addition of good to document / POS terminal 1

Store	POS	Date/time	Full Name	Cashier No.	Receipt number	Code	Name	Price	Total	Receipt total	Cash	Change	Status
1 Shop 1	POS terminal 1	10/19/2015 4:28:15	Bill Smith	7850	2644	47909	Sausage Doktorskaya	44.70	44.70	63.30	63.30	0.00	Event not processed
2 Shop 1	POS terminal 1	10/19/2015 4:28:15	Bill Smith	7850	2644	31157	Instant noodles	9.30	18.60	63.30	63.30	0.00	Event not processed
3 Shop 1	POS terminal 1	10/19/2015 4:28:18	Bill Smith	7850	2645	1347	Banannas - 1kg	42.90	30.20	179.53	500.00	320.47	Non-violation
4 Shop 1	POS terminal 1	10/19/2015 4:28:19	Bill Smith	7850	2645	50865	Kefir	29.20	29.20	179.53	500.00	320.47	Event not processed
5 Shop 1	POS terminal 1	10/19/2015 4:28:20	Bill Smith	7850	2645	52304	Butter 82,5% 450g R	108.10	108.10	179.53	500.00	320.47	Event not processed
6 Shop 1	POS terminal 1	10/19/2015 4:28:20	Bill Smith	7850	2645	36802	Bread	13.40	13.40	179.53	500.00	320.47	Moderate violation de
7 Shop 1	POS terminal 1	10/19/2015 4:28:25	Bill Smith	7850	2646	24743	Кура гриль Окорок	1179.00	66.23	106.23	106.23	0.00	Event not processed
8 Shop 1	POS terminal 1	10/19/2015 4:28:25	Bill Smith	7850	2646	23807	Dried apricots	25.10	25.10	106.23	106.23	0.00	Event not processed
9 Shop 1	POS terminal 1	10/19/2015 4:28:26	Bill Smith	7850	2646	50029	Sunflower seed oil	14.90	14.90	106.23	106.23	0.00	Event not processed
10 Shop 1	POS terminal 1	10/19/2015 4:28:29	Bill Smith	7850	2647	1206	Package (small) 1iter	2.00	2.00	2.00	2.00	0.00	Event not processed

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. Number of cashier;
6. Receipt number in which the event was registered;
7. Code;
8. Name;
9. Price;
10. Quantity;
11. Total sum;
12. Receipt total;
13. Cash;
14. Change;
15. Previous status of event;
16. Current status of event;
17. POS operator who gave the current status to the event;
18. Date and time of last status change.

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.

Report System 3.1.0.428

POS reports

Navigation: POS reports > Report by cashier > General report > Detailed report

3

2

Cashier: Bill Smith / Receipt number: 2645

Data	Date/time
Receipt: 2645 Date: 26.05.10 Time: 10:42:31 Cashier: Bill Smith ID: 7850	2015/07/20 11:12:24 AM
Banannas - 1kg 1347 42.9 rub. * 0.704 = 30.2 rub.	2015/07/20 11:12:24 AM
Kefir 50865 29.2 rub. * 1 = 29.2 rub.	2015/07/20 11:12:25 AM
Butter 82,5% 450g Russia 52304 108.1 rub. * 1 = 108.1 rub.	2015/07/20 11:12:26 AM

Events: Payment / Bill Smith

Store	POS	Date/time	Full Name	Cashier No.	Receipt number	Receipt total	Cash	Change	Status
1 Shop 1	1 POS terminal 1	7/20/2015 11:12:23 AM	Bill Smith	7850	2644	63.30	63.30	0.00	Event not processed (by default)
2 Shop 1	POS terminal 1	7/20/2015 11:12:29 AM	Bill Smith	7850	2645	179.53	500.00	320.47	Non-violation
3 Shop 1	POS terminal 1	7/20/2015 11:12:33 AM	Bill Smith	7850	2646	106.23	106.23	0.00	Event not processed (by default)
4 Shop 1	POS terminal 1	7/20/2015 11:12:36 AM	Bill Smith	7850	2647	2.00	2.00	0.00	Event not processed (by default)
5 Shop 1	POS terminal 1	7/20/2015 11:12:42 AM	Bill Smith	7850	2648	229.22	500.00	270.78	Event not processed (by default)
6 Shop 1	POS terminal 1	7/20/2015 11:12:53 AM	Bill Smith	7850	2649	379.40	1000.00	620.60	Serious violation detected
7 Shop 1	POS terminal 1	7/20/2015 11:13:00 AM	Bill Smith	7850	2650	155.13	155.13	0.00	Moderate violation detected
8 Shop 1	POS terminal 1	7/20/2015 11:13:04 AM	Bill Smith	7850	2651	106.33	110.00	3.67	Event not processed (by default)
9 Shop 1	POS terminal 1	7/20/2015 11:13:06 AM	Bill Smith	7850	2643	40.00	40.00	0.00	Event not processed (by default)

2. Left-click the line with the required event (1).
3. As a result data from the POS terminal by event (2) and video events (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. Working with video surveying window in the archive mode is given in details in [Intellect software package. Operator's guide](#).

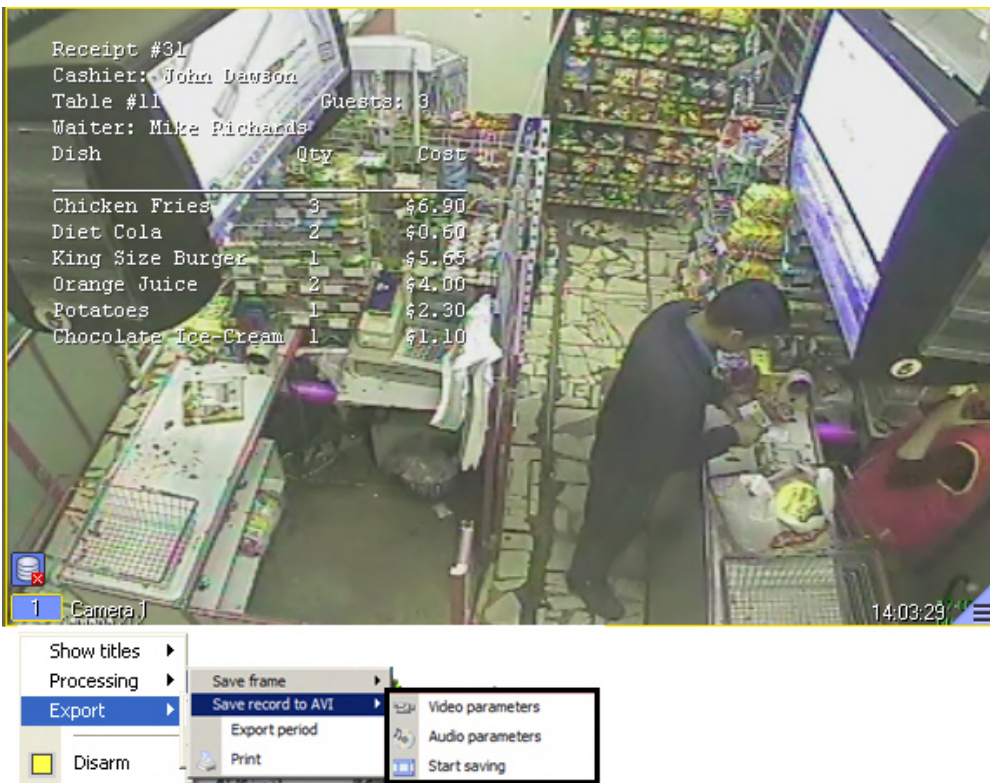
Note. Video can not be displayed (it depends on whether the requirements for Web server and/or Client realization are performed – see the [Requirements for Intellect Web Report System realization](#) section).

Note. 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).

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**.



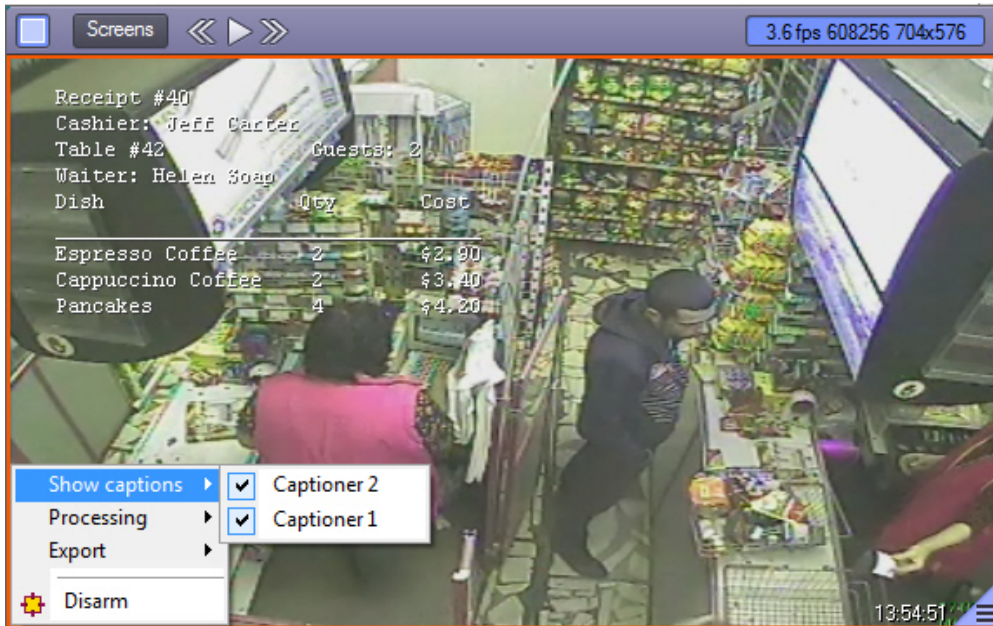
Parameters of the video and audio, which will be saved, may be configured in the displayed window. As soon as recording saving parameters are selected, the video segment may be exported to the file by selecting the **Start Saving** command (exporting the video is given in details in the [Export of Silent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

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

Disabling captions in the video surveying window

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

1. Choose **Show captions** in the functions menu of the video surveillance window.



- In the displayed list of available captioners select those from which captions are to be received.
- To disable captions from some captioners left-click the line with the required captioner.

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.

POS reports

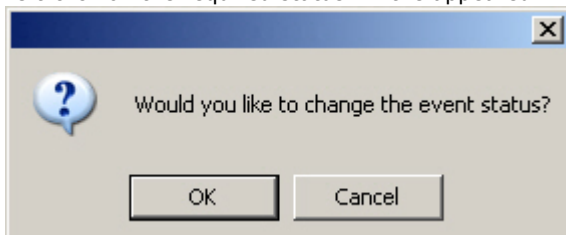
Navigation: POS reports > Report by cashier > General report > Detailed report

Cashier: Bill Smith / Receipt number: 2645

Receipt	Date	Date/time
2645	26.05.10	11:12:24 AM
2646	26.05.10	11:12:25 AM
2647	26.05.10	11:12:26 AM
2648	26.05.10	11:12:26 AM
2649	26.05.10	11:12:26 AM
2650	26.05.10	11:13:00 AM
2651	26.05.10	11:13:04 AM
2643	26.05.10	11:13:06 AM

Events: Payment / Bill Smith	Store	POS	Date/time	Full Name	Cashier No.	Receipt number	Receipt total	Cash	Change	Status
1	Shop 1	POS terminal 1	7/20/2015 11:12:23 AM	Bill Smith	7850	2644	63.30	63.30	0.00	Event not processed (by default)
2	Shop 1	POS terminal 1	7/20/2015 11:12:29 AM	Bill Smith	7850	2645	179.53	500.00	320.47	Non-violation
3	Shop 1	POS terminal 1	7/20/2015 11:12:33 AM	Bill Smith	7850	2646	106.23	106.23	0.00	Event not processed (by default)
4	Shop 1	POS terminal 1	7/20/2015 11:12:36 AM	Bill Smith	7850	2647	2.00	2.00	0.00	Possibly violation
5	Shop 1	POS terminal 1	7/20/2015 11:12:42 AM	Bill Smith	7850	2648	229.22	500.00	270.78	Minor violation detected
6	Shop 1	POS terminal 1	7/20/2015 11:12:53 AM	Bill Smith	7850	2649	179.40	1000.00	820.60	Moderate violation detected
7	Shop 1	POS terminal 1	7/20/2015 11:13:00 AM	Bill Smith	7850	2650	155.13	155.13	0.00	Serious violation detected
8	Shop 1	POS terminal 1	7/20/2015 11:13:04 AM	Bill Smith	7850	2651	106.33	110.00	3.67	Moderate violation detected
9	Shop 1	POS terminal 1	7/20/2015 11:13:06 AM	Bill Smith	7850	2643	40.90	40.90	0.00	Event not processed (by default)

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**.



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.

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 statu:	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 det	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	—	—

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


	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

Search in detailed reports

To perform the search in detailed reports, do the following:

1. Display a detailed report.

Store	POS	Date/time	Full Name	Cashier No.	Receipt number	Receipt total	Cash	Change	Status
1 Shop 1	POS terminal 1	7/20/2015 11:12:23	Bill Smith	7850	2644	63.30	63.30	0.00	Event not processed
2 Shop 1	POS terminal 1	7/20/2015 11:12:3	Bill Smith	7850	2645	179.53	500.00	320.47	Event not processed
3 Shop 1	POS terminal 1	7/20/2015 11:12:34	Bill Smith	7850	2646	106.23	106.23	0.00	Event not processed
4 Shop 1	POS terminal 1	7/20/2015 11:12:37	Bill Smith	7850	2647	2.00	2.00	0.00	Event not processed
5 Shop 1	POS terminal 1	7/20/2015 11:12:43	Bill Smith	7850	2648	229.22	500.00	270.78	Event not processed
6 Shop 1	POS terminal 1	7/20/2015 11:12:54	Bill Smith	7850	2649	379.40	1000.00	620.60	Event not processed
7 Shop 1	POS terminal 1	7/20/2015 11:13:00	Bill Smith	7850	2650	155.13	155.13	0.00	Event not processed
8 Shop 1	POS terminal 1	7/20/2015 11:13:05	Bill Smith	7850	2651	106.33	110.00	3.67	Event not processed
9 Shop 1	POS terminal 1	7/20/2015 11:13:07	Bill Smith	7850	2643	40.90	40.90	0.00	Event not processed

2. Click the  sign to display the panel of forming the search criteria.

Report System 3.10.438

POS reports

Navigation: POS reports > Report by POS > General report > Detailed report

Receipt: 2649 Date: 20.05.10 Time: 10:44:16 Cashier: Bill Smith
 4601075690001 Milk 2.8% 2l 450.0 rub. * 1 = 52.7 rub.
 4607023231007 Cheese 50% 300g 450.0 rub. * 1 = 54.0 rub.
 Meat 1kg 2017g 169.0 rub. * 0.502 = 100.23 rub.
 90005169 Dishwashing detergent 500ml Russia 488.0 rub. * 1 = 488.0 rub.
 Change price of good: Dishwashing detergent 500ml Russia 488.0 rub.
 4601212000091 Muesli 400g 449.0 rub. * 1 = 22.0 rub.
 4602701001285 Bread 364.0 rub. * 1 = 13.4 rub.
 Change price of good: Bread 364.0 rub. * 1 = 13.4 rub.

Cashier: Bill Smith / Receipt number: 2645

Data	Date/time
Receipt: 2645 Date: 26.05.10 Time: 10:42:31 Cashier: Bill Smith ID: 7850	2015/07/20 11:12:24 AM
Bananas - 1kg 1347 42.9 rub. * 1 = 30.2 rub.	2015/07/20 11:12:24 AM
4608325169455 Kefir 50865 29.2 rub. * 1 = 29.2 rub.	2015/07/20 11:12:25 AM
4606419002121 Butter 82,5% 450g Russia 52304 108.1 rub. * 1 = 108.1 rub.	2015/07/20 11:12:26 AM
4600631000538 Bread 36802 13.4 rub. * 1 = 13.4 rub. Discounting (extra price) of good	2015/07/20 11:12:26 AM

Search...

Receipt number: 2644

Reset Find

Name	Cashier No.	Receipt number	Receipt total	Cash	Change	Status
7850	7850	2644	63.30	63.30	0.00	Event not processed
7850	7850	2644	63.30	63.30	0.00	Event not processed
7850	7850	2644	63.30	63.30	0.00	Event not processed
7850	7850	2644	63.30	63.30	0.00	Event not processed
7850	7850	2644	63.30	63.30	0.00	Event not processed
7850	7850	2644	63.30	63.30	0.00	Event not processed
7850	7850	2644	63.30	63.30	0.00	Event not processed
7850	7850	2644	63.30	63.30	0.00	Event not processed
7850	7850	2644	63.30	63.30	0.00	Event not processed
7850	7850	2644	63.30	63.30	0.00	Event not processed

- From the drop-down list (1) select the parameter on which the search will be performed.
- From the drop-down list (2) select the criteria for search.
- In the field (3) enter the required value for search.
- Click the **Find** button (5). As a result, only strings corresponding to the search criteria will be displayed in the list.

Report System 3.10.438

POS reports

Navigation: POS reports > Report by POS > General report > Detailed report

Receipt: 2649 Date: 20.05.10 Time: 10:44:16 Cashier: Bill Smith
 4601075690001 Milk 2.8% 2l 450.0 rub. * 1 = 52.7 rub.
 4607023231007 Cheese 50% 300g 450.0 rub. * 1 = 54.0 rub.
 Meat 1kg 2017g 169.0 rub. * 0.502 = 100.23 rub.
 90005169 Dishwashing detergent 500ml Russia 488.0 rub. * 1 = 488.0 rub.
 Change price of good: Dishwashing detergent 500ml Russia 488.0 rub.
 4601212000091 Muesli 400g 449.0 rub. * 1 = 22.0 rub.
 4602701001285 Bread 364.0 rub. * 1 = 13.4 rub.
 Change price of good: Bread 364.0 rub. * 1 = 13.4 rub.

Cashier: Bill Smith / Receipt number: 2645

Data	Date/time
Receipt: 2645 Date: 26.05.10 Time: 10:42:31 Cashier: Bill Smith ID: 7850	2015/07/20 11:12:24 AM
Bananas - 1kg 1347 42.9 rub. * 1 = 30.2 rub.	2015/07/20 11:12:24 AM
4608325169455 Kefir 50865 29.2 rub. * 1 = 29.2 rub.	2015/07/20 11:12:25 AM
4606419002121 Butter 82,5% 450g Russia 52304 108.1 rub. * 1 = 108.1 rub.	2015/07/20 11:12:26 AM
4600631000538 Bread 36802 13.4 rub. * 1 = 13.4 rub. Discounting (extra price) of good	2015/07/20 11:12:26 AM

Search...

Receipt number: 2644

Reset Find

Name	Cashier No.	Receipt number	Receipt total	Cash	Change	Status
7850	7850	2644	63.30	63.30	0.00	Event not processed
7850	7850	2644	63.30	63.30	0.00	Event not processed
7850	7850	2644	63.30	63.30	0.00	Event not processed
7850	7850	2644	63.30	63.30	0.00	Event not processed
7850	7850	2644	63.30	63.30	0.00	Event not processed
7850	7850	2644	63.30	63.30	0.00	Event not processed
7850	7850	2644	63.30	63.30	0.00	Event not processed
7850	7850	2644	63.30	63.30	0.00	Event not processed
7850	7850	2644	63.30	63.30	0.00	Event not processed
7850	7850	2644	63.30	63.30	0.00	Event not processed

- To reset the search criteria click the **Reset** button (4).

Select columns in detailed reports

To perform the select columns in detailed reports, do the following:

- Display a detailed report.

Report System 3.1.0.428 FS

POS reports

Navigation: POS reports > Report by potential violations > General report > Detailed report

Print

Cashier: Bill Smith / Receipt number: 2650


Data	Date/time
Receipt: 2650	
Date: 26.05.10	
Time: 10:47:34	2015/07/20 11:12:54 AM
Cashier: Bill Smith	
ID: 7850	
4602701001124	
Bread 36439	2015/07/20 11:12:54 AM
18.9 rub. * 1 = 18.9 rub.	
4603948001205	
Ice cream 29505	2015/07/20 11:12:55 AM
36.3 rub. * 1 = 36.3 rub.	
Cheese 50% 1kg 1869	2015/07/20 11:12:56 AM
248.9 rub. * 0.322 = 80.15 rub.	
Pastry 1kg 28791	2015/07/20 11:12:56 AM
75.7 rub. * 0.29 = 21.95 rub.	
Change price of good:	

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Unauthorized increase in the price of the goods: / Bill Smith

Store	POS	Date/time	Full Name	Cashier No.	Receipt number	Receipt total	Cash	Change	Status
1 Shop 1	POS terminal 1	7/20/2015 11:12:46 AM	Bill Smith	7850	2649	379.40	1000.00	620.60	Event not processed
2 Shop 1	POS terminal 1	7/20/2015 11:12:48 AM	Bill Smith	7850	2649	379.40	1000.00	620.60	Event not processed
3 Shop 1	POS terminal 1	7/20/2015 11:12:57 AM	Bill Smith	7850	2650	155.13	155.13	0.00	Non-violation
4 Shop 1	POS terminal 1	7/20/2015 11:13:33 AM	Bill Smith	7850	2649	379.40	1000.00	620.60	Event not processed
5 Shop 1	POS terminal 1	7/20/2015 11:13:35 AM	Bill Smith	7850	2649	379.40	1000.00	620.60	Event not processed
6 Shop 1	POS terminal 1	7/20/2015 11:13:44 AM	Bill Smith	7850	2650	155.13	155.13	0.00	Event not processed
7 Shop 1	POS terminal 1	7/20/2015 11:14:20 AM	Bill Smith	7850	2649	379.40	1000.00	620.60	Event not processed
8 Shop 1	POS terminal 1	7/20/2015 11:14:22 AM	Bill Smith	7850	2649	379.40	1000.00	620.60	Event not processed

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- Click the  sign to display the panel of columns selecting.

Select columns

18 items selected **2** Remove all **4** Add all

POS	-	N	+
Date/time	-	EventID	+
Full Name	-	Func_id	+
Cashier No.	-	FunctionNumber	+
Receipt number	-	StoreGUID	+
Code	-	PosGUID	+
Name	-	Fraction	+
Price	-	_id	+
Quantity	-	Receipt number	+
Total	-		
Receipt total	-		

1 **3** **5** **6** Cancel **6** Ok **5**

- To remove column click the  sign close to the name of corresponding column in the area (1). To remove all columns click the **Remove all** link (2).
- To add column click the  sign close to the name of corresponding column in the area (3). To add all columns click the **Add all** link (4).
- To change the order of columns drag the column name to the required position in the area (1).
- To save changes click **Ok** (5).
- To cancel changes click **Cancel** (6).

Working with Time and Attendance reports

Working with Time and Attendance reports consists of three stages:

- Selecting a type of report.
- Creating a report.
- Viewing a report.

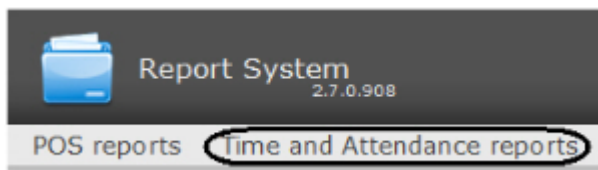


Attention!

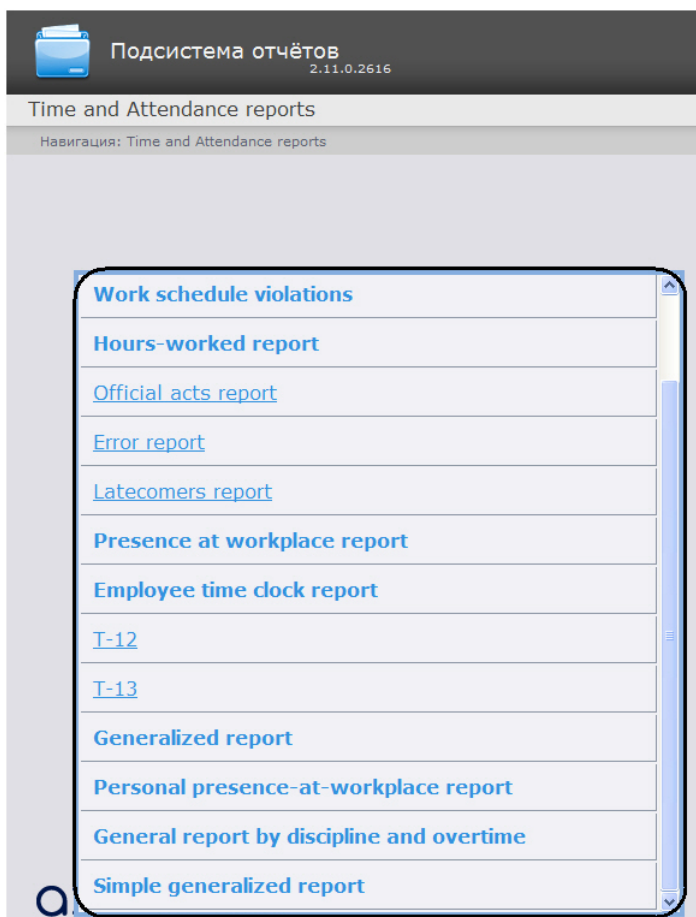
It's required to configure user access to departments for working with Time and Attendance reports (see the [Settings up the Time and Attendance reports](#) section).

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.



As a result the list of available Time and Attendance reports is displayed. For switching to the required report click the corresponding link.



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.



Time and Attendance reports

- Detailed general report
- General report
- Work schedule violations
- Hours-worked report
- Official acts report
- Error report
- Latecomers report
- Presence at workplace report
- Employee time clock report
- T-12
- T-13
- Generalized report
- Personal presence-at-workplace report
- General report by discipline and overtime
- Simple generalized report

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). Set required values to the parameters that are necessary for displaying the report of selected type (**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



**Note.**

The figure 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.

Parameter	Description	Used in reports
Area: <input type="text" value="Region 1"/>	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
Period: <input type="text" value="Current date and time"/>	Used for setting the period by which the report is displayed	Used in all reports
Department / subdivision: <input type="text" value="Department 1"/>	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 General report by discipline and overtime Simple generalized report
Show entrances/exits: <input type="checkbox"/>	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
Only working area: <input type="checkbox"/>	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
Employee: <input type="text" value="[all]"/>	Used for selecting the employee by whom 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 Generalized report General report by discipline and overtime Simple generalized report Personal presence-at-workplace report

Short-form report: <input checked="" type="checkbox"/>	Some fields are hidden when the checkbox is set	<ul style="list-style-type: none"> • Presence in the workplace report • Generalized report • Personal presence-at-workplace report
Access levels:	Used for selecting access level by whom the report is displayed	<ul style="list-style-type: none"> • Report by users of access levels and readers
Type of report: By access levels ▼	Used for selecting type of report which is to be displayed	<ul style="list-style-type: none"> • Report by users of access levels and readers
Readers:	Used for selecting readers by which report is to be displayed	<ul style="list-style-type: none"> • Report by users of access levels and readers • Report by employee passes
Short-form report: <input checked="" type="checkbox"/>	Only departments or employees which are in the specified region will be considered in the report when the checkbox is set	<ul style="list-style-type: none"> • Detailed general report • General report

2. Click **Execute** (2).





As a result a report is created and displayed.

Viewing a Time and Attendance report

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.



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

Intellect Web Report System allows exporting the created Time and Attendance report to computer in the following formats:

- PDF;
- RTF;
- HTML;
- Excel;
- CSV;
- Text.

For this select a format in which the report is exported and click  (2).

Zooming in/out the displayed page is performed through the choosing the required scale in the list (3).

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 %.

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 %



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.

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.

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 %

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.

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.

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

Report fields are described in the table.

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.

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.

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
-------------------------	-----------------	-----------------	------------------	-----------------	-----------------

Report fields are described in the table.

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.**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.

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

Report fields are described in the table.

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.

Error report

An **Error report** contains the information about employees' erroneous passages.

Date: from 04.06.2012 to 10.06.2012

Error report

Department: Department Employees

Hood William

Date	Arrival time	Passage point	Region	Error type
04.06.2012	15:28:38	OnlineController Changed	Region 1	Auoia aac aoiaa
04.06.2012	15:28:54	OnlineController Changed	Region 2	Aoia aac auoiaa
04.06.2012	15:30:26	OnlineController Changed	Region 2	Auoia aac aoiaa
04.06.2012	16:12:52	OnlineController Changed	Region 1	Aoia aac auoiaa

Total by employee	Amount	Entrance with no exit	Exit with no entrance
During interval from 04.06.2012 to 10.06.2012	4	2	2

John Johnes

Date	Arrival time	Passage point	Region	Error type
04.06.2012	15:30:32	OnlineController Changed	Region 2	Auoia aac aoiaa
04.06.2012	16:12:58	OnlineController Changed	Region 1	Aoia aac auoiaa

Total by employee	Amount	Entrance with no exit	Exit with no entrance
During interval from 04.06.2012 to 10.06.2012	2	1	1

Total by department	Amount	Entrance with no exit	Exit with no entrance
During interval from 04.06.2012 to 10.06.2012	6	3	3

Report fields are described in the table.

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.

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.

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		



Note.

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

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.

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

Report fields are described in the table.


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 **Summary view** checkbox was set then the report consists only of the **Total by employee** lines.

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.

 Подсистема отчётов
2.11.0.2616

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

  Page from   PDF   100%

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								

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:

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

Report fields are described in the table.

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.**

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.

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.

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

Report fields are described in the table.

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.

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.

Date: from
07.10.2013
to 13.10.2013

Discipline and overtime

Department: Department Clients

Full Name	position	Being late (hour)	Overtime (hour)	Saturdays (days)	Holidays (days)
Smith Jhon	Manager	00:00:00	00:00:00	1	0
Client 2		00:00:00	00:00:00	0	0
Total by department:		00:00:00	00:00:00	1	0

Department: Department Employees

Full Name	position	Being late (hour)	Overtime (hour)	Saturdays (days)	Holidays (days)
Employee 1		00:00:00	00:00:00	0	1
Total by department:		00:00:00	00:00:00	0	1

Total by report

Total by report:		00:00:00	00:00:00	1	1
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The report fields are described in the following table.

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

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.

Report from: 10/10/2013 2:07:16 PM

Date: from 07.10.2013
to 13.10.2013**Simple generalized report****Department Clients**

Personnel number	Full Name	Hours worked	Arrival	Leaving	Coming late	Leaving earlier
------------------	-----------	--------------	---------	---------	-------------	-----------------

Date : 07.10.2013

	Client 2	9:18:56	15:23:46		0	0
1001	Smith Jhon	8:11:36		8:11:36	0	0

Date : 08.10.2013

	Client 2	0			0	0
1001	Smith Jhon	0			0	0

Date : 09.10.2013

	Client 2	0			0	0
1001	Smith Jhon	0			0	0

Date : 10.10.2013

	Client 2	0			0	0
1001	Smith Jhon	0			0	0

Report fields are described in the table.

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

Report by users access levels

A **Report by users access levels** contains information about access levels of selected employees and passage points through which selected employees can perform the pass.

Date: from 17.06.2015 to 17.06.2015

Users access levels

Department: Department 1

Full Name	Access levels	Passage points
Bob Green	Access Level 2	
John Smith	Access Level 1	

Department: Department 2

Full Name	Access levels	Passage points
User 3	Access Level 1	

Report fields are described in the table.

Field name	Description
Full name	Full name of employee
Access Level	Access level of selected employee
Passage points	Passage points through which pass is performed

Report by users of access levels and readers

Report by users of access levels and readers contains information about users which have selected access level or selected passage point.

Report by users of access levels and passage points

Access level: Access Level 1

ID	Full Name	Department
1	John Smith	Department 1
3	User 3	Department 2

Access level: Access Level 2

ID	Full Name	Department
2	Bob Green	Department 1

Report fields are described in the table.

Field name	Description
ID	ID of employee
Full name	Full name of employee
Department	Department to which employee belongs

Report by employee passes

Report by employee passes displays all interactions of selected employee with selected passage points. Report allows to detect moving of selected employee within specified zone.

Report by employee passes

Department: IKT

Full name	Passage point	Date
John Smith	009	02.06.2015 7:45:46
John Smith	009 - 010	02.06.2015 7:45:52
John Smith	004	02.06.2015 7:46:02
John Smith	304-1	02.06.2015 7:46:57
John Smith	309-3	02.06.2015 7:47:09

Report fields are described in the table.

Field name	Description
Full name	Full name of employee
Passage point	Passage point through which pass was performed
Date	Date and time of passage

Report by first and last card presenting per calendar day

Report by first and last card presenting per calendar day contains information about time of first and last presenting of card of selected employee to the passage point. In this report working schedules are ignored, data is displayed per calendar day. All passage points are analyzed while report creating.

Report by first and last card presenting per calendar day

Period: 01.05.2015 - 31.05.2015

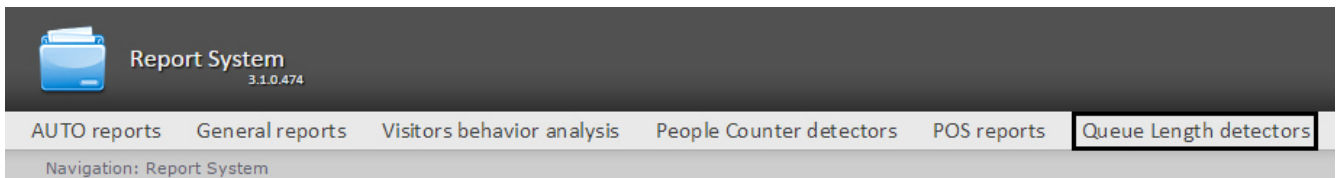
Отдел: ИКТ

ID	Full name	Position	Time of first/last card presenting						
			01.05.2015	02.05.2015	03.05.2015	04.05.2015	05.05.2015	06.05.2015	07.05.2015
870	John Smith	Product manager					07:56:05 / 17:02:48	07:45:54 / 17:01:48	07:26:30 / 17:02:48
			08.05.2015	09.05.2015	10.05.2015	11.05.2015	12.05.2015	13.05.2015	14.05.2015
			07:33:57 / 16:03:02				07:28:33 / 17:02:27	07:25:42 / 17:02:02	07:26:50 / 17:01:44
			15.05.2015	16.05.2015	17.05.2015	18.05.2015	19.05.2015	20.05.2015	21.05.2015
			07:22:51 / 17:02:38			07:26:33 / 17:02:12	07:27:20 / 17:00:58	07:22:54 / 17:02:06	07:20:50 / 17:02:55
			22.05.2015	23.05.2015	24.05.2015	25.05.2015	26.05.2015	27.05.2015	28.05.2015
			07:48:04 / 16:56:50			07:48:17 / 16:55:23	07:26:42 / 17:02:27	07:46:44 / 16:59:15	07:29:07 / 17:01:38
			29.05.2015	30.05.2015	31.05.2015				
08:13:20 / 16:35:05									
1844	Bob Green	Administrator	01.05.2015	02.05.2015	03.05.2015	04.05.2015	05.05.2015	06.05.2015	07.05.2015
						07:49:03 / 10:56:30	08:44:47 / 16:15:09	07:47:27 / 17:02:01	07:51:57 / 17:04:06
			08.05.2015	09.05.2015	10.05.2015	11.05.2015	12.05.2015	13.05.2015	14.05.2015
			07:58:29 / 16:01:01				07:50:45 / 17:08:50	08:07:13 / 17:14:07	08:10:33 / 17:32:23
			15.05.2015	16.05.2015	17.05.2015	18.05.2015	19.05.2015	20.05.2015	21.05.2015
			07:50:29 / 17:06:14			07:34:21 / 17:13:14	08:03:28 / 17:00:41	08:14:14 / 17:07:56	07:27:18 / 16:14:50
			22.05.2015	23.05.2015	24.05.2015	25.05.2015	26.05.2015	27.05.2015	28.05.2015
			09:02:11 / 17:01:26			08:31:07 / 17:02:03	08:01:01 / 17:07:18	08:03:06 / 17:06:50	08:06:55 / 17:15:22

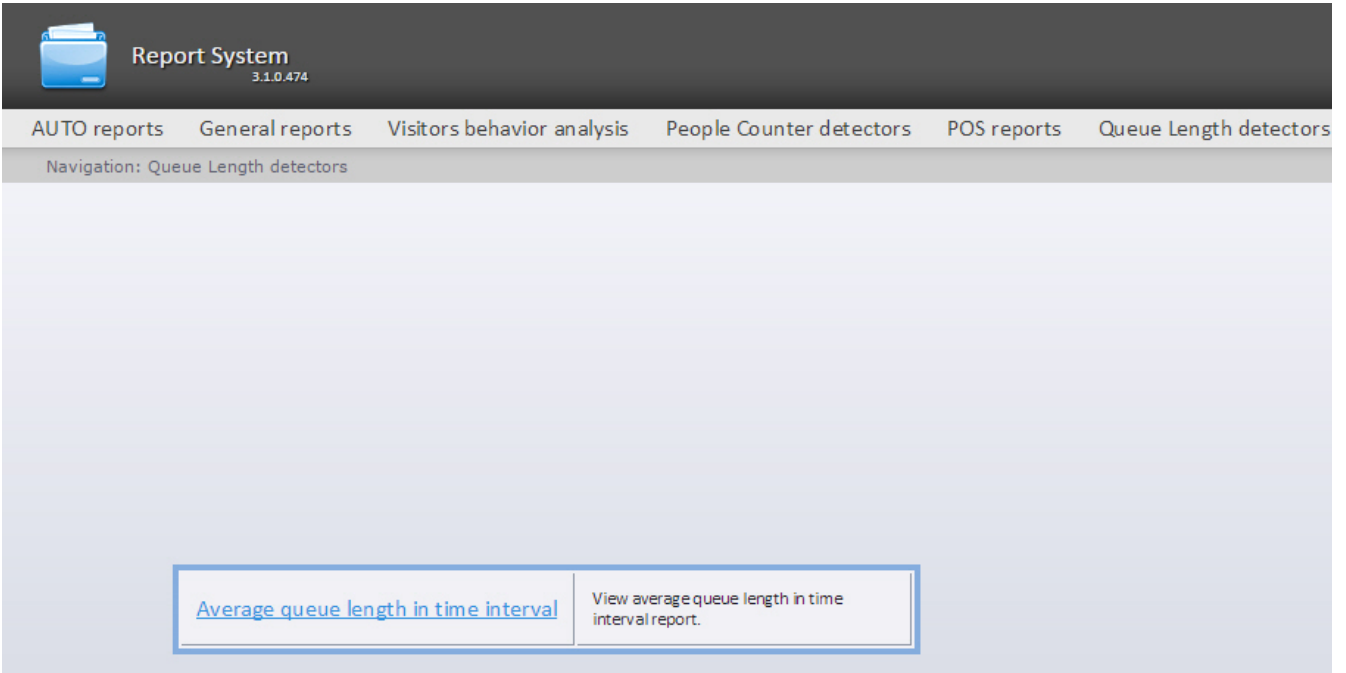
Note.
Minimal time period for report displaying is a week.

Working with reports by Queue Length detectors

To create a Queue Length report click **QueueLength detectors** in the report menu of *Intellect Web Report System*.

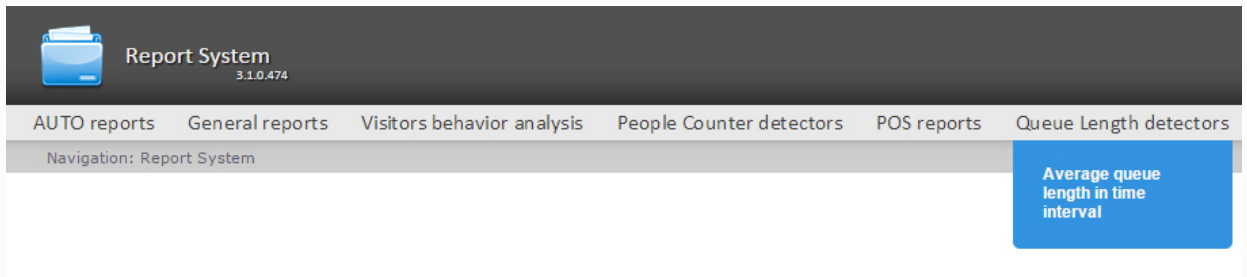


Click **Average queue length in time interval**.



Note.

Link of going to a report of average queue length in time interval is available when cursor is hovered over the **Queue Length detectors** link in the report menu.



A page of a report of average queue length in time interval is displayed.



Average queue length in time interval

Parameter	Value
Receiving data period:	User defined 2 <input type="button" value="from"/> 08/01/2014 <input type="button" value="Calendar"/> 00:00 <input type="button" value="Clock"/> to 08/31/2014 <input type="button" value="Calendar"/> 00:00 <input type="button" value="Clock"/> 1
Data averaging interval (min.):	60 2
Detectors:	Choose: All, None <input checked="" type="checkbox"/> Queue length detection 1 <input checked="" type="checkbox"/> Queue length detection 2 3
Chart:	<input checked="" type="checkbox"/> 4

5

Set the following report parameters:

1. Specify the period in the following way:
 - a. From the **Period:** drop-down list select the time period for which the report is to be created (**1**).
 - b. 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. Click the button near the corresponding field to use the **Calendar** tool.
 - c. If the **User defined 2** period is selected, enter additionally the time of start and end periods for which the report is to be created using the button.
If another period type is selected, specifying the date of start and end periods is not needed.
2. Enter a period of time (in minutes) between load values in the **Step (min.)** field (**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 (**3**).
4. If it is necessary to view a report as a chart, set the corresponding checkbox (**4**).

To create a report click **Execute** (**5**).

As a result a report of average queue length in time interval with specified parameters is displayed.



Detector	Load report Time Period	People count
Detector 1	4/12/2012 1:10:00 PM	18
Detector 1	4/12/2012 1:20:00 PM	21
Detector 1	4/12/2012 1:30:00 PM	2

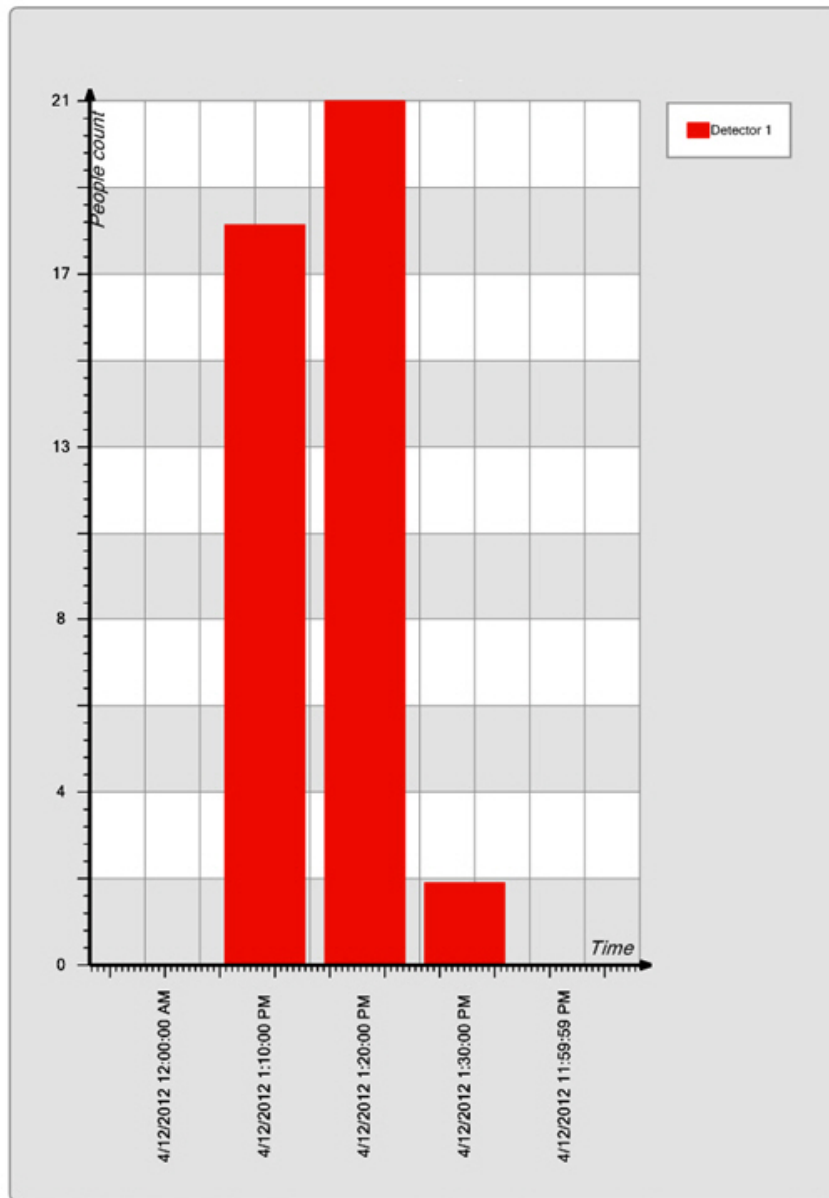


Note.

Example of a report of average queue length in time interval as a chart is given in the following figure.



4/12/2012 1:59:54 PM



Working with reports by People Counter detectors

Selecting a type of reports by People Counter detector

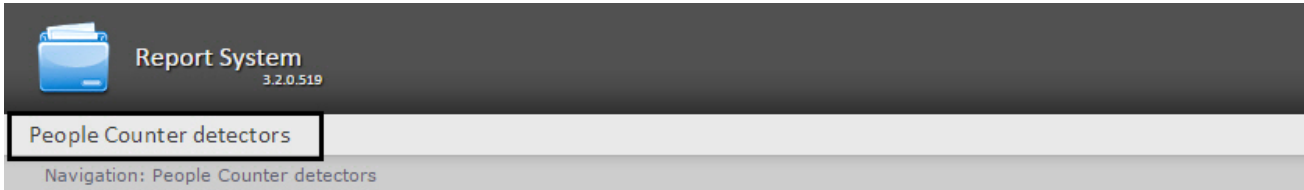
It is possible to create the following reports by data of people counter detector:

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.
3. Face counter report (detailed by servers). This report allows getting data about the people quality using data from the face recognition servers. Data can be presented as a table and chart.
4. Face counter report (detailed by cameras). This report allows getting data about the people quality using data from

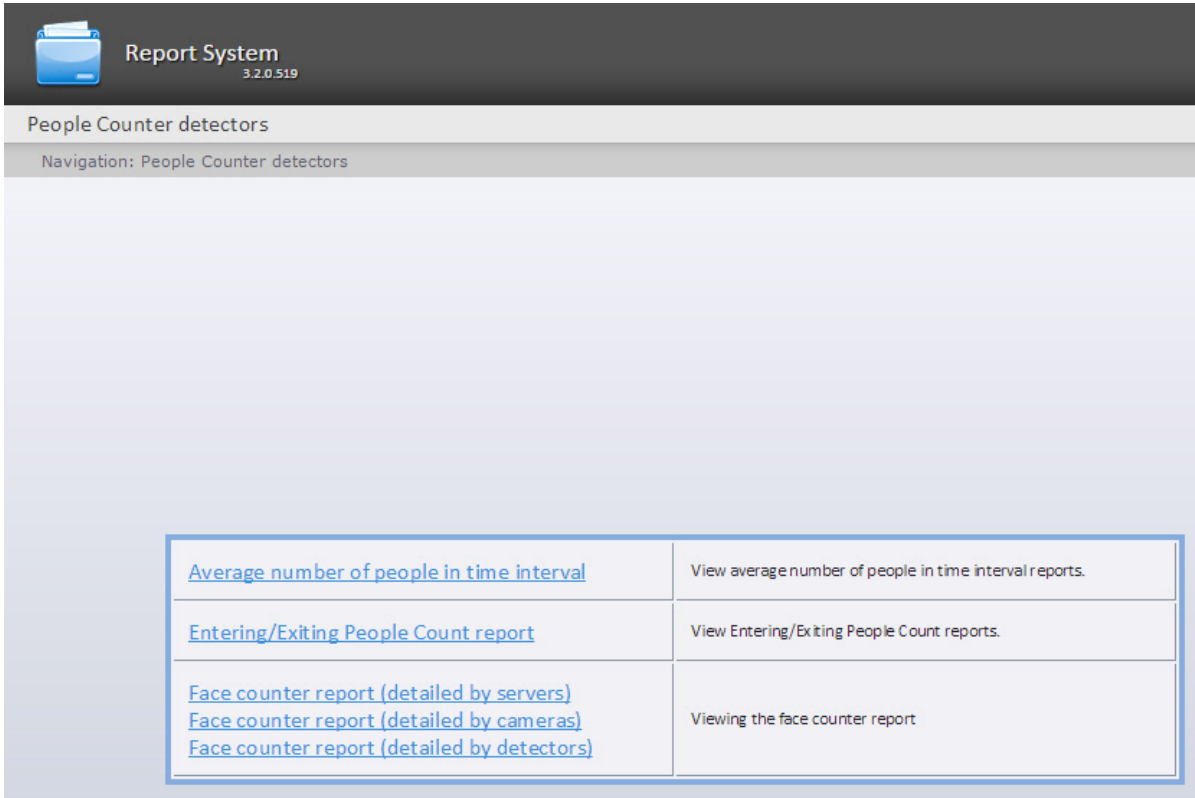
the video cameras. Data can be presented as a table and chart.

5. Face counter report (detailed by detectors). This report allows getting data about the people quality using data from the face detectors.
6. . This report allows getting data about number of unidentified persons. 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 *Intellect Web Report System*.

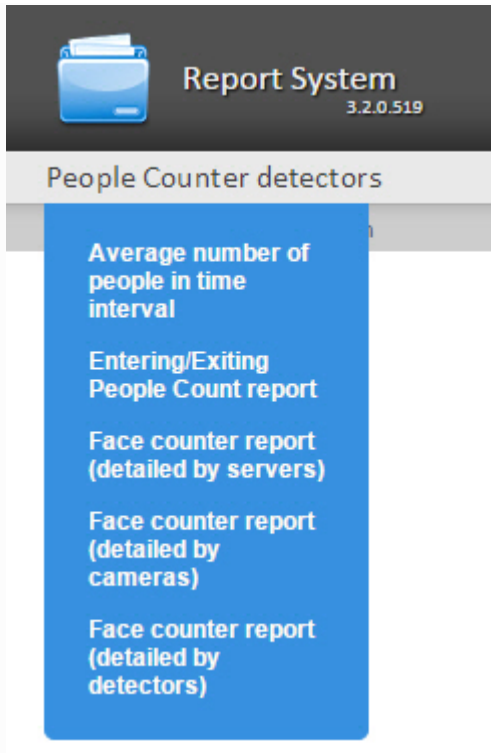


As a result the list of available reports by people counter detectors is displayed. For switching to the required report click the corresponding link.



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.



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.



Average number of people in time interval

Parameter	Value
Detectors:	Choose: All , None <input checked="" type="checkbox"/> People counter detection 1 <input checked="" type="checkbox"/> People counter detection 2 1
Receiving data period:	Last month <input type="button" value="v"/> 2
Step:	60 3
Maximum value:	For whole period <input type="button" value="v"/> 4
Time zone:	[not applied] <input type="button" value="v"/> 5
Chart:	<input checked="" type="checkbox"/> 6
Sum results:	<input type="checkbox"/> 7
Execute 8	

Set the following report parameters:

- In the **Detectors** field set checkboxes in those **People counter** objects information on which should be displayed in the report (**1**).
- Specify the period in the following way:
 - From the **Receiving data period:** drop-down list select the time period for which the report is to be created (**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. Click the  button near the corresponding field to use the **Calendar** tool.
 - If the **User defined 2** period is selected, enter additionally the time of start and end periods for which the report is to be created using the  button.
If another period type is selected, specifying the date of start and end periods is not needed.
- Enter a time period (in minutes) during which the values received from people counter detector will be averaged in the **Step** field (**3**). 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.

- In the **Max value** field specify a maximum value of people that will be displayed in a chart (**4**).
- From the **Time zone:** drop-down list select time zone by which report is to be created (**5**).

Note. Time zones created in the *Intellect* software package which have only one time period and haven't got any inclusions are available to select. Selection of week days is not performed. Detailed information about

creation and using of time zones is presented in the [Creating and using time zones](#) section.

6. If it is necessary to view a report as a chart, set the corresponding checkbox **(6)**.
7. Set the **Sum results:** checkbox to display sum result by selected detections in the report **(7)**.
8. To create a report click **Execute (8)**.

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

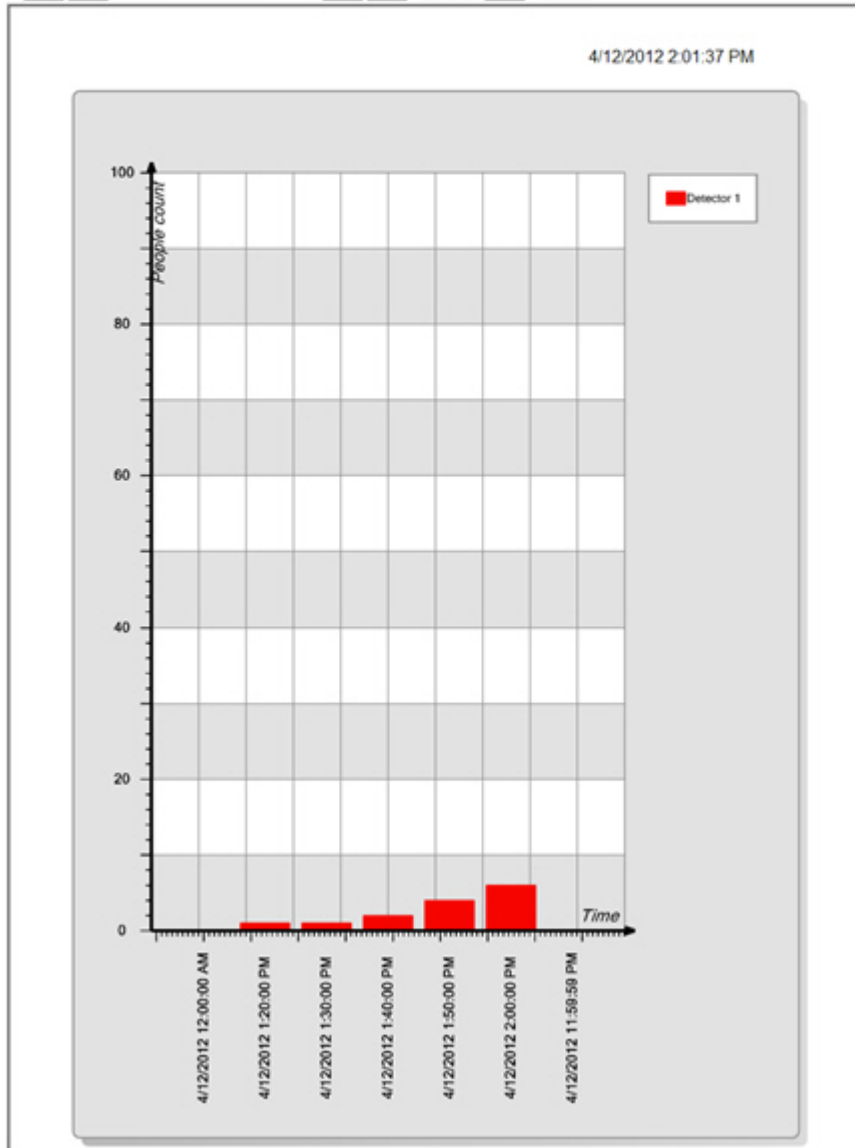
1. The basic data are events about enter and exit sorted by time.
2. Do the previous calculations to create the "Number of people at a time" function:
 - 2.1 During the specified period the "current number of people" in the zone is calculated at a time. Depending on the people entering or exiting the 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.

The screenshot shows the 'Report System' interface with a navigation bar and a table of report data. The navigation bar includes 'QueueLength Reports', 'Time and Attendance reports', 'POS reports', and 'PeopleCounter Reports'. The current page is 'PeopleCounter Reports > Load Report > Result'. The table below shows the following data:

Detector	Time Period	People count
Detector 1	4/12/2012 1:20:00 PM	1
Detector 1	4/12/2012 1:30:00 PM	1
Detector 1	4/12/2012 1:40:00 PM	2
Detector 1	4/12/2012 1:50:00 PM	4
Detector 1	4/12/2012 2:00:00 PM	6

Note. Example of a report of average number of people in time interval as a chart is given in the following figure.



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.



Entering/Exiting People Count report

Parameter	Value
Detectors:	Choose: All, None + <input checked="" type="checkbox"/> People counter detection 1 - <input checked="" type="checkbox"/> People counter detection 2 <input checked="" type="checkbox"/> Entry <input checked="" type="checkbox"/> Exit <input checked="" type="checkbox"/> Entry+Exit
Show total per day:	<input type="checkbox"/> 2
Receiving data period:	Last month 3
Step:	60 4
Maximum value:	For whole period 5
Time zone:	[not applied] 6
Chart:	<input checked="" type="checkbox"/> 7
Sum results:	<input type="checkbox"/> 8
Execute 9	



Set the following report parameters:

1. In the **Detectors** field set checkboxes in those **People counter** objects information on which should be displayed in the report (1). For each detector select a value on which the report is to be created: entry, exit, entry+exit.



Note.

Select the **Entry+Exit** value if the report is to be created on total number of passes.

2. Set the **Show total per day:** checkbox to display sum of positions per day (2).
3. Specify the period in the following way:
 - a. From the **Receiving data period:** drop-down list select the time period for which the report is to be created (3).
 - b. 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. Click the  button near the corresponding field to use the **Calendar** tool.
 - c. If the **User defined 2** period is selected, enter additionally the time of start and end periods for which the report is to be created using the  button.
If another period type is selected, specifying the date of start and end periods is not needed.
4. Enter a time period (in minutes) during which the values received from people counter detector will be summarized in the **Step** field (4).
5. From the **Maximum value** drop-down list select a maximum value of people that will be displayed in a chart (5).
6. From the **Time zone:** drop-down list select time zone by which report is to be created (6).



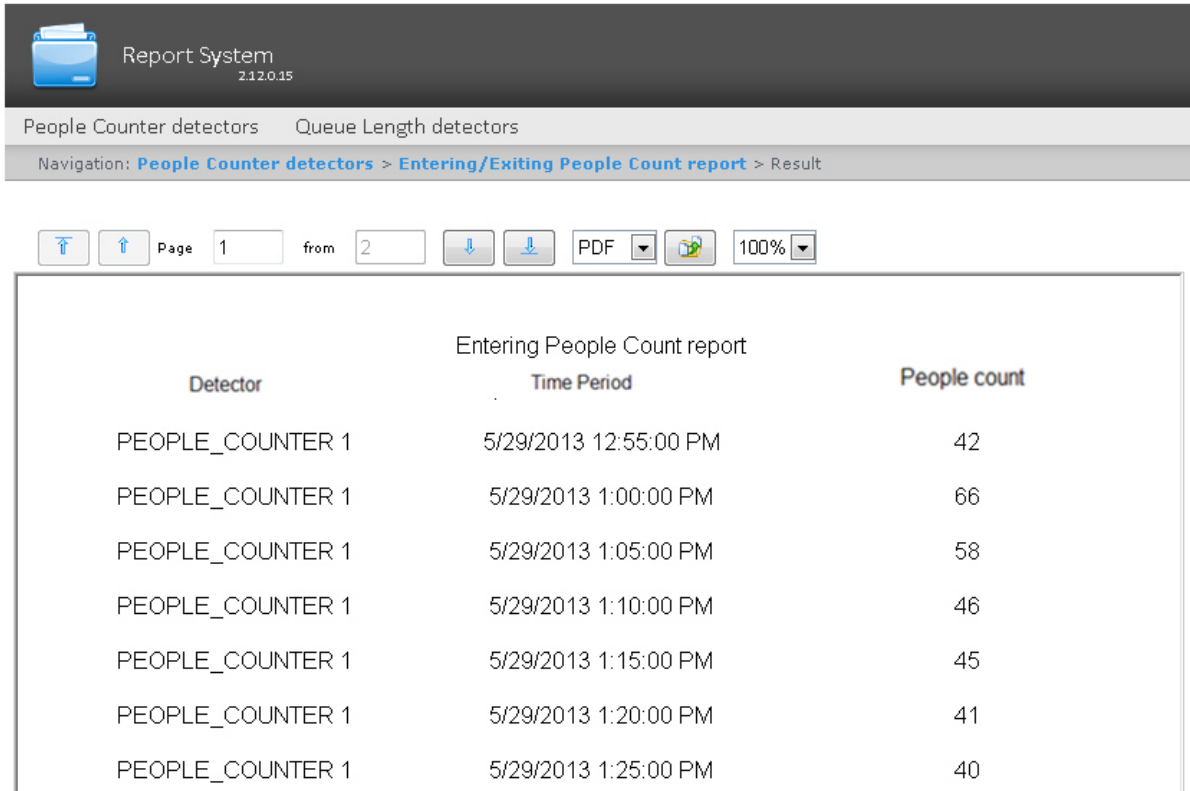
Note.

Time zones created in the *Intellect* software package which have only one time period and haven't got any inclusions are available to select. Selection of week days is not performed. Detailed information about creation and using of time zones is presented in the [Creating and using time zones](#) section.

7. If it is necessary to view a report as a chart, set the corresponding checkbox (7).
8. Set the **Sum results:** checkbox to display sum result by selected detections in the report (8).
9. To create a report click **Execute** (9).

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.



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

- Header: Report System 2.12.0.15
- Navigation: People Counter detectors > Queue Length detectors
- Current View: People Counter detectors > Entering/Exiting People Count report > Result
- Page Controls: Page 1 from 2, PDF, 100%
- Table Title: Entering People Count report
- Table Data:

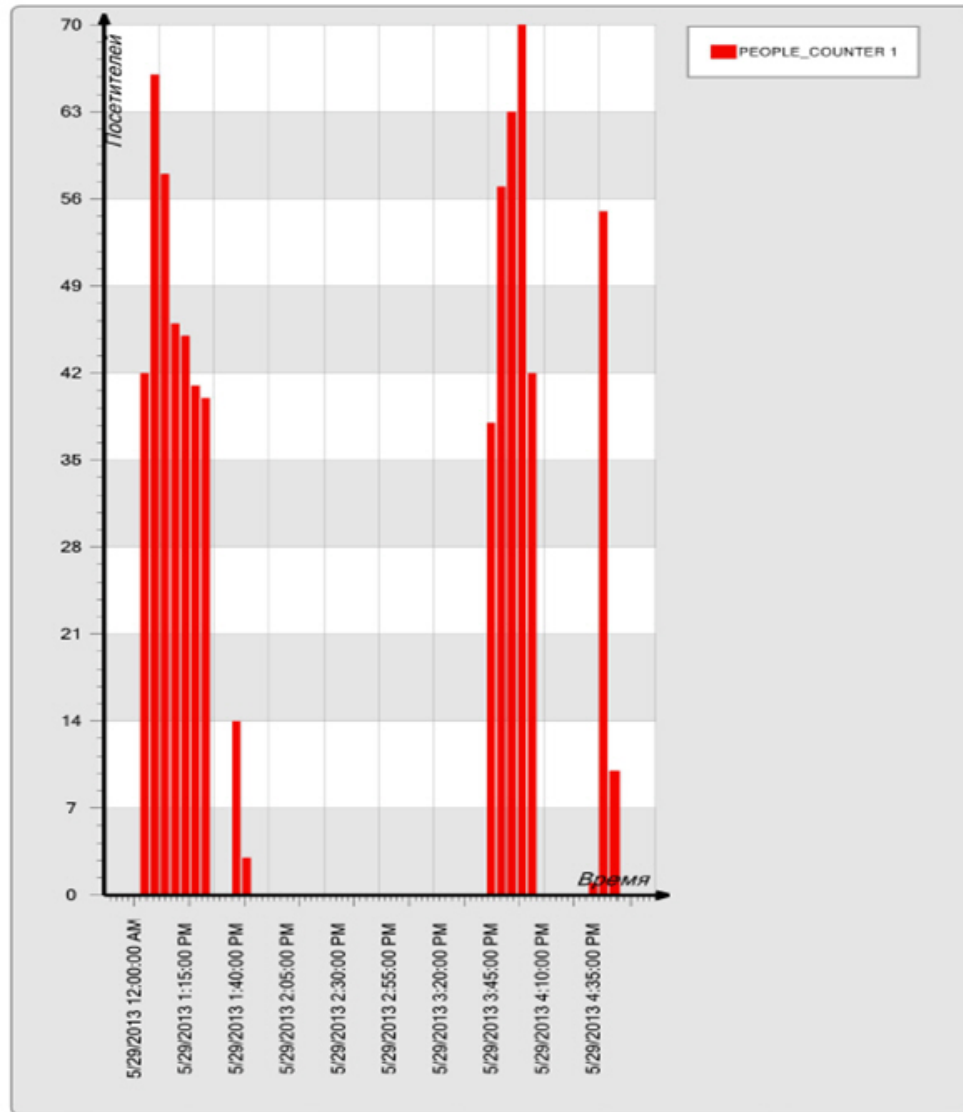
Detector	Time Period	People count
PEOPLE_COUNTER 1	5/29/2013 12:55:00 PM	42
PEOPLE_COUNTER 1	5/29/2013 1:00:00 PM	66
PEOPLE_COUNTER 1	5/29/2013 1:05:00 PM	58
PEOPLE_COUNTER 1	5/29/2013 1:10:00 PM	46
PEOPLE_COUNTER 1	5/29/2013 1:15:00 PM	45
PEOPLE_COUNTER 1	5/29/2013 1:20:00 PM	41
PEOPLE_COUNTER 1	5/29/2013 1:25:00 PM	40

Note. Example of a **Entering/Exiting People counter report** as a chart is given in the following figure.



Entering People Count report

5/29/2013 4:52:26 PM



Creating a Face counter report detailed by servers

In order to create a face counter report detailed by servers, do the following:



1. Select the **Face counter report (detailed by servers)** 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.

Unidentified persons report

Parameter	Value
Detectors:	Choose: All , None <input checked="" type="checkbox"/> Face Recognition Server 1 <input checked="" type="checkbox"/> Face Recognition Server 2
Add total per day:	<input type="checkbox"/> 2
Receiving data period:	User defined 2 ▼ from 09/01/2015 00:00 to 09/30/2015 23:59
Step:	60
Maximum value:	For whole period ▼
Time zone:	[not apply] ▼
Chart:	<input checked="" type="checkbox"/> 7
Sum result:	<input type="checkbox"/> 8

Execute 9

Set the following report parameters:

- In the **Detectors** field set checkboxes in those **Face Recognition Server** objects information on which should be displayed in the report (1).
- Set the **Add total per day**: checkbox to display sum of positions per day (2).
- Specify the period in the following way:
 - From the **Receiving data period**: drop-down list select the time period for which the report is to be created (3).
 - 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. Click the  button near the corresponding field to use the **Calendar** tool.
 - If the **User defined 2** period is selected, enter additionally the time of start and end periods for which the report is to be created using the  button.
If another period type is selected, specifying the date of start and end periods is not needed.
- Enter a time period (in minutes) during which the values received from people counter detector will be summarized in the **Step** field (4).
- From the **Maximum value** drop-down list select a maximum value of people that will be displayed in a chart (5).
- From the **Time zone**: drop-down list select time zone by which report is to be created (6).

Note. Time zones created in the *Intellect* software package which have only one time period and haven't got any inclusions are available to select. Selection of week days is not performed. Detailed information about creation and using of time zones is presented in the [Creating and using time zones](#) section.

- If it is necessary to view a report as a chart, set the corresponding checkbox (7).
- Set the **Sum results**: checkbox to display sum result by selected detections in the report (8).
- To create a report click **Execute** (9).

As a result a face counter report detailed by servers with specified parameters is displayed.

Face counter report (detailed by servers)

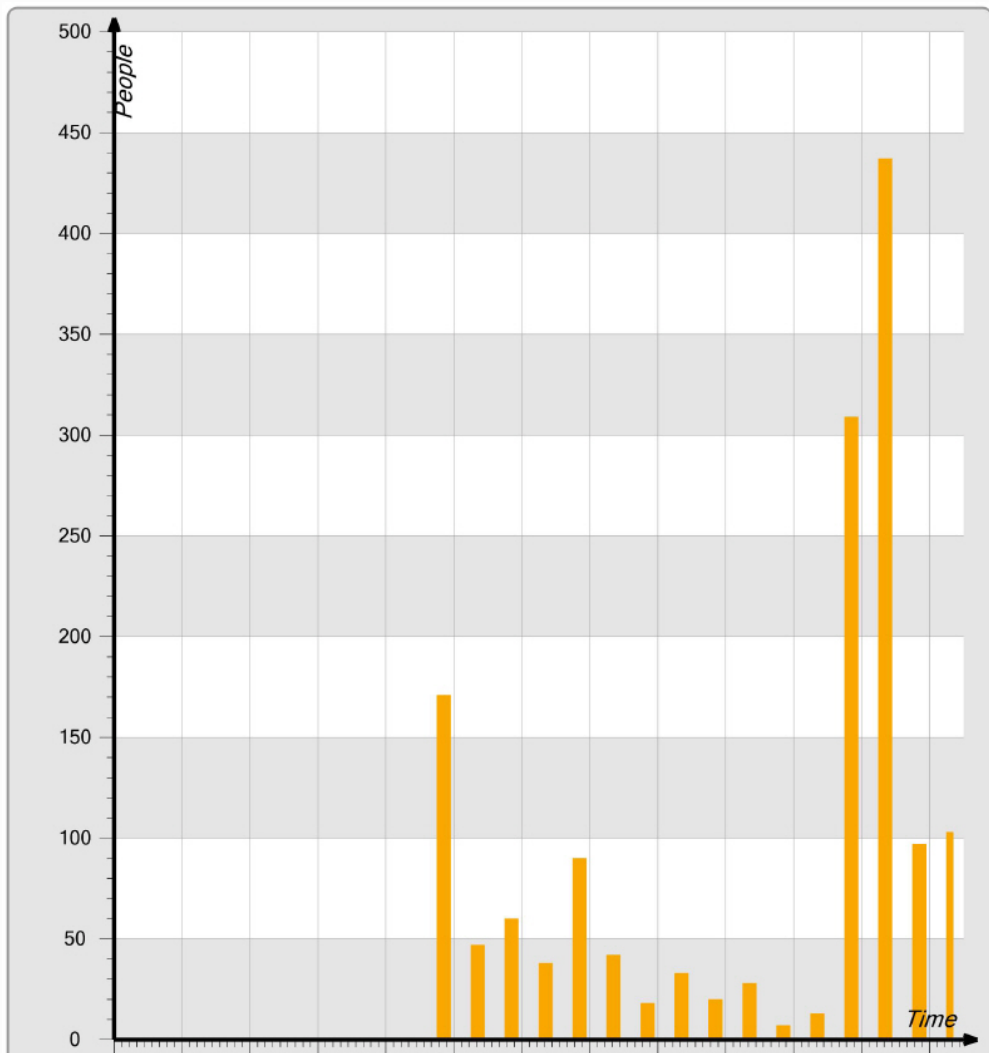
(number of unidentified persons)

Period of data receiving	Interval of data receiving	People
12/21/2015 12:00:00 AM - 12/21/2015 11:59:59 PM		
Face recognition	12/21/2015 8:00:00 AM - 12/21/2015 8:59:59 AM	171
Face recognition	12/21/2015 9:00:00 AM - 12/21/2015 9:59:59 AM	47
Face recognition	12/21/2015 10:00:00 AM - 12/21/2015 10:59:59 AM	60
Face recognition	12/21/2015 11:00:00 AM - 12/21/2015 11:59:59 AM	38
Face recognition	12/21/2015 12:00:00 PM - 12/21/2015 12:59:59 PM	90
Face recognition	12/21/2015 1:00:00 PM - 12/21/2015 1:59:59 PM	42
Face recognition	12/21/2015 2:00:00 PM - 12/21/2015 2:59:59 PM	18
Face recognition	12/21/2015 3:00:00 PM - 12/21/2015 3:59:59 AM	33



Note.

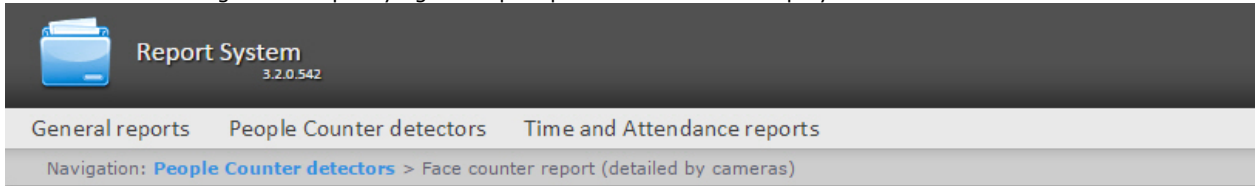
Example of a face counter report detailed by servers as a chart is given in the following figure.



Creating a Face counter report detailed by cameras

In order to create a face counter report detailed by cameras, do the following:

1. Select the **Face counter report (detailed by cameras)** type (see Selecting a type of reports by People Counter detector>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.





Face counter report (detailed by cameras)

Parameter	Value
Cameras:	Choose: All, None <input checked="" type="checkbox"/> Camera 4 1
Add total per day:	<input type="checkbox"/> 2 3
Receiving data period:	User 2 ▼ from 01/01/2016 [Calendar] 00:00 [Clock] to 01/31/2016 [Calendar] 23:59 [Clock]
Step:	60 4
Maximum value:	For whole period ▼ 5
Time zone:	[not apply] ▼ 6
Chart:	<input checked="" type="checkbox"/> 7
Sum result:	<input type="checkbox"/> 8

Execute 9

Set the following report parameters:

1. In the **Cameras** field set checkboxes in those **Camera** objects information on which should be displayed in the report (1).
2. Set the **Add total per day:** checkbox to display sum of positions per day (2).
3. Specify the period in the following way:
 - a. From the **Receiving data period:** drop-down list select the time period for which the report is to be created (3).
 - b. 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. Click the  button near the corresponding field to use the **Calendar** tool.
 - c. If the **User defined 2** period is selected, enter additionally the time of start and end periods for which the report is to be created using the  button.
If another period type is selected, specifying the date of start and end periods is not needed.
4. Enter a time period (in minutes) during which the values received from people counter detector will be summarized in the **Step** field (4).
5. From the **Maximum value** drop-down list select a maximum value of people that will be displayed in a chart (5).
6. From the **Time zone:** drop-down list select time zone by which report is to be created (6).

Note. Time zones created in the *Intellect* software package which have only one time period and haven't got any inclusions are available to select. Selection of week days is not performed. Detailed information about creation and using of time zones is presented in the *Creating and using time zones* section.

7. If it is necessary to view a report as a chart, set the corresponding checkbox (7).
8. Set the **Sum results:** checkbox to display sum result by selected detections in the report (8).
9. To create a report click **Execute** (9).

As a result a face counter report detailed by cameras with specified parameters is displayed.

Navigation: [People Counter detectors](#) > [Face counter report \(detailed by cameras\)](#) > Result

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Face counter report (detailed by cameras)

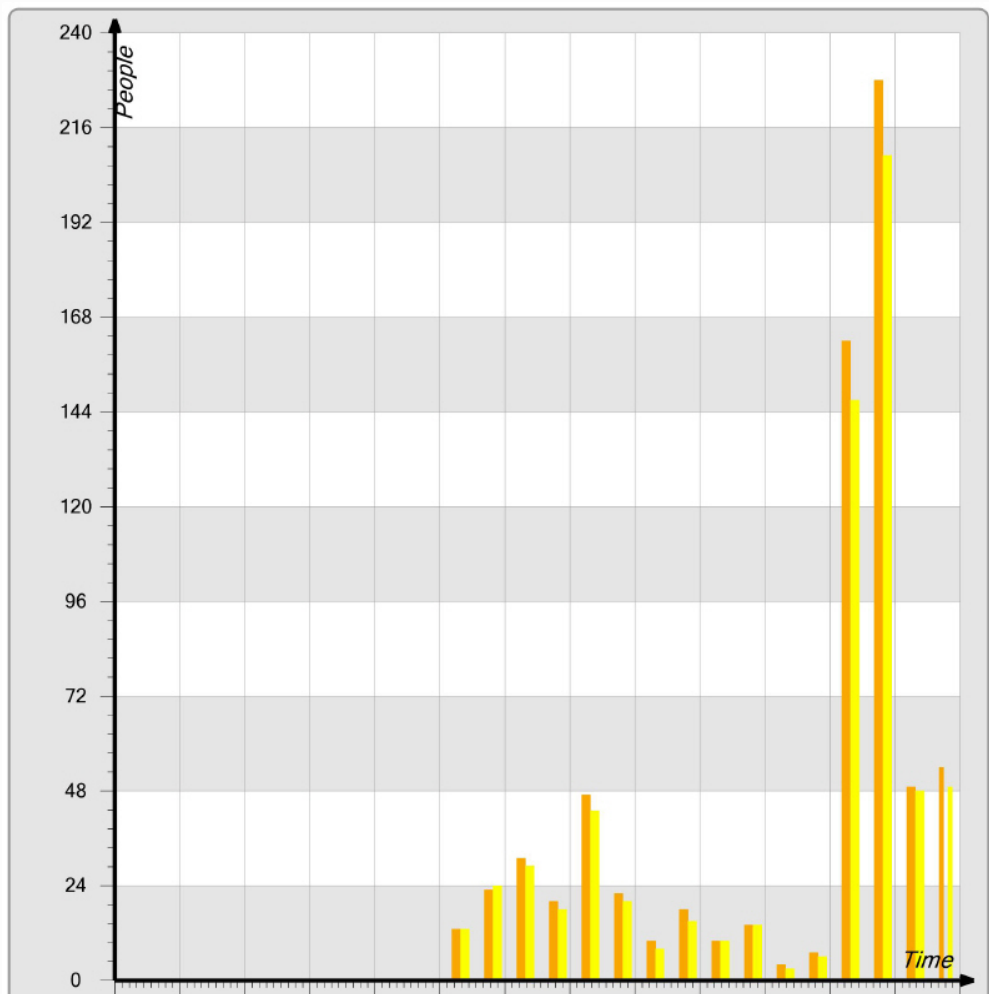
(number of unidentified persons)

Period of data receiving	camera	Interval of data receiving	People
12/21/2015 12:00:00 AM - 12/21/2015 11:59:59 PM			
	camera 1	12/21/2015 8:00:00 AM - 12/21/2015 8:59:59 AM	13
	camera 1	12/21/2015 9:00:00 AM - 12/21/2015 9:59:59 AM	23
	camera 1	12/21/2015 10:00:00 AM - 12/21/2015 10:59:59 AM	31
	camera 1	12/21/2015 11:00:00 AM - 12/21/2015 11:59:59 AM	20
	camera 1	12/21/2015 12:00:00 PM - 12/21/2015 12:59:59 PM	47
	camera 1	12/21/2015 1:00:00 PM - 12/21/2015 1:59:59 PM	22
	camera 1	12/21/2015 2:00:00 PM - 12/21/2015 2:59:59 PM	10



Note.



Example of a face counter report detailed by cameras as a chart is given in the following figure.



Face counter report (detailed by detectors)

Parameter	Value
Detectors:	Choose: All, None <input checked="" type="checkbox"/> face detector 1.1 <input checked="" type="checkbox"/> face detector 2.1
Receiving data period:	User defined 2 ▼ from 12/21/2015 11:38 to 12/22/2015 11:38
<input type="button" value="Execute"/>	

Set the following report parameters:

1. In the **Detectors** field set checkboxes in those **Face detectors** objects information on which should be displayed in the report (1).
2. Specify the period in the following way:
 - a. From the **Receiving data period:** drop-down list select the time period for which the report is to be created (2).
 - b. 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. Click the  button near the corresponding field to use the **Calendar** tool.
 - c. If the **User defined 2** period is selected, enter additionally the time of start and end periods for which the report is to be created using the  button.
If another period type is selected, specifying the date of start and end periods is not needed.
3. To create a report click **Execute** (3).

As a result a face counter report detailed by detectors with specified parameters is displayed.

Face counter report (detailed by detectors)			
(number of unidentified persons)			
Period of data receiving	12/21/2015 11:38:00 AM - 12/22/2015 11:38:00 AM		
Detection	Interval of data receiving	People	
face detector 1.1	12/21/2015 11:38:00 AM - 12/22/2015 11:37:59 AM	663	
face detector 2.1	12/21/2015 11:38:00 AM - 12/22/2015 11:37:59 AM	605	

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).

Selecting a type of Auto report

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

1. Zone time slice. 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.
2. Slice on group. This report allows getting data about the average speed of vehicle moving, range and density of

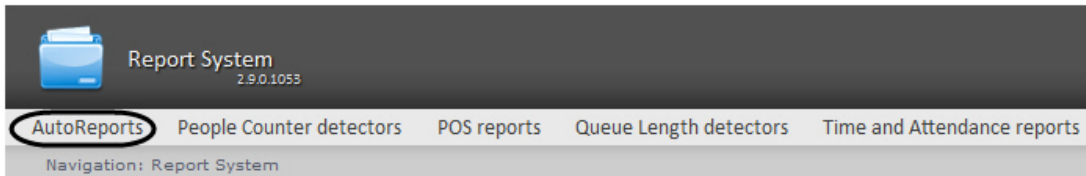
traffic, occupation of several lanes for the fixed point of time. Time interval is specified within the accuracy of a minute. Data can be presented as a table and chart.

3. 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.
4. 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.

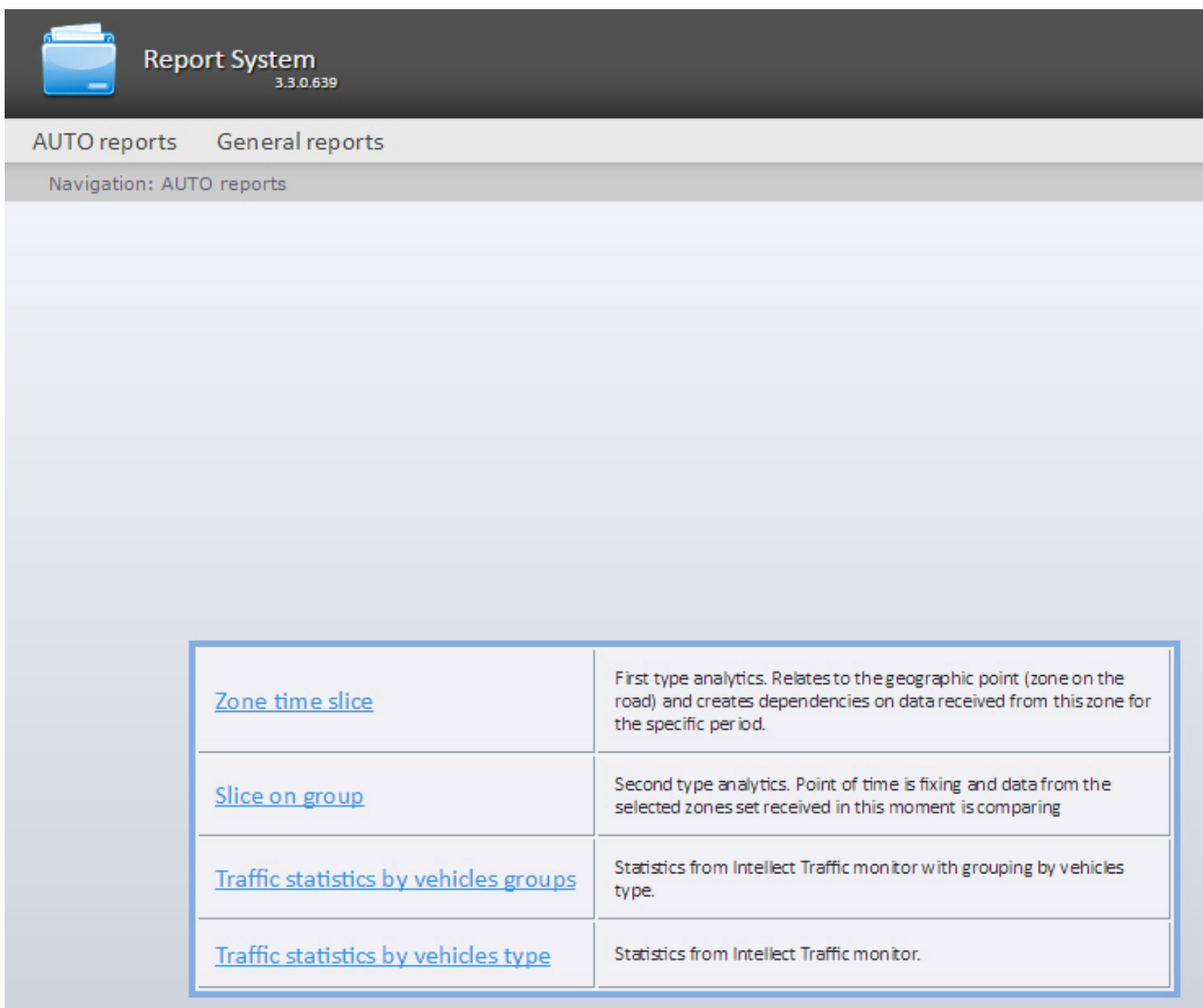
Zone time slice and **Slice on group** reports refer to **Traffic Detector** and **Vehicle Processor** modules (the corresponding modules are to be created in the *Intellect* software package).

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 *Intellect Web Report System*.

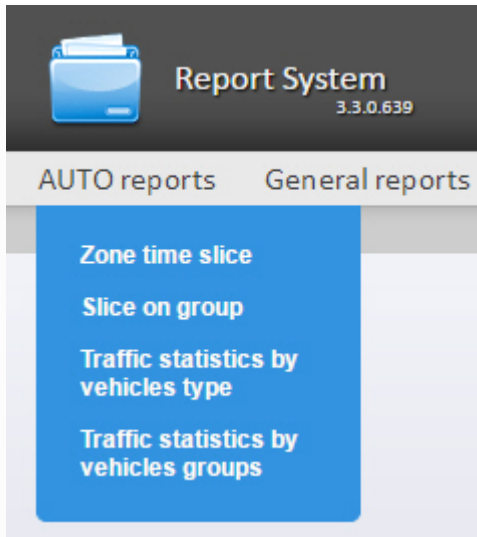


As a result the list of available Auto reports is displayed. For switching to the required report click the corresponding link.



Note.

List of links for switching to Auto reports is available when hovering over the **Auto reports** link in the report menu.



Creating a Zone time slice

In order to create a Zone time slice, do the following:


1. Select the **Zone time slice** 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.

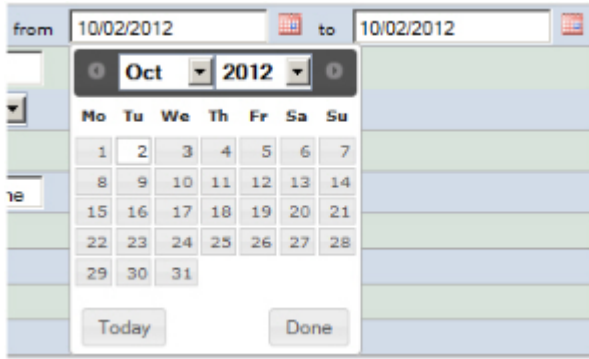
Navigation: **AUTO reports** > Zone time slice


Zone time slice

Parameter	1	Value	2	3
Period:	User	from	08/23/2016	to 08/23/2016
Averaging interval, min:	60			
Data source (zone or detector):				
Report's content:	Chart+Table			
Title:	Zone time slice			
View average speed data:	<input checked="" type="checkbox"/>			
View volume data:	<input checked="" type="checkbox"/>			
View density data:	<input checked="" type="checkbox"/>			
View Occupancy data:	<input checked="" type="checkbox"/>			

Execute 12

3. Specify parameters of time slice in the following way:
 - a. From the **Period:** drop-down list select the time period for which the report is to be created (1).
 - b. 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 (2). Click the  button near the corresponding field to use the **Calendar** tool.



- c. If the **User defined 2** period is selected, enter additionally the time of start and end periods for which the report is to be created using the  button.

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

- d. 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 (3). The average values for the specified averaging interval are displayed in the report.



Note.

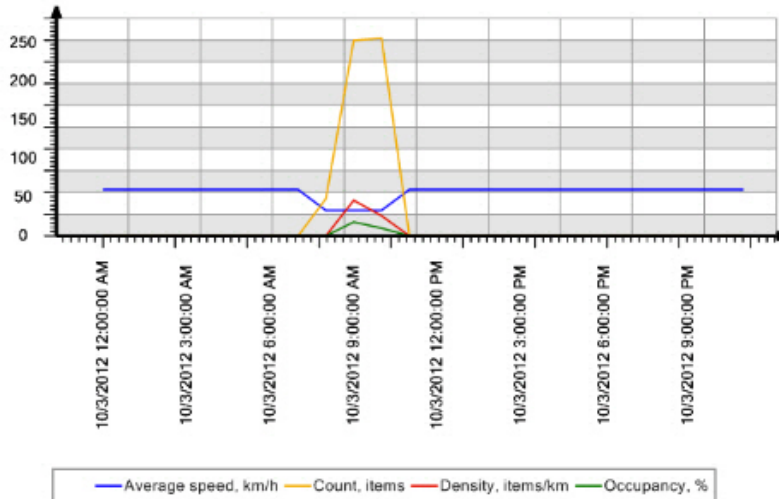
If the average value is null the empty report will be displayed for such intervals for the specified period. It is recommended to change the interval in this case.

- e. 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 (4).
- f. From the **Report's content** drop-down list select the way of report displaying: table and/or chart (5).
- g. In the **Title** field enter the report name which is to be displayed (6).
- h. Set the **View average speed data** checkbox to include the data about average speed on the selected lane (7).
- i. Set the **View volume data** checkbox to include the data about vehicle numbers on the lane for the specified time period (8).
- j. Set the **View density data** checkbox to include the data about vehicle numbers per kilometer on the specified lane (9).
- k. Set the **View Occupancy data** checkbox to include the data about percent of lane occupancy (10).
4. Click **Execute** to create the report (11).

As a result the report in the selected form is displayed.

Zone time slice

Period: 10/3/2012 12:00:00 AM 10/3/2012 11:59:59 PM
 Averaging interval: 60
 Event source: Lane 1



Time	Average speed, km/h	Count, items	Density, items/km	Occupancy, %
10/3/2012 12:00:00 AM	60	0	0	0
10/3/2012 1:00:00 AM	60	0	0	0
10/3/2012 2:00:00 AM	60	0	0	0
10/3/2012 3:00:00 AM	60	0	0	0
10/3/2012 4:00:00 AM	60	0	0	0
10/3/2012 5:00:00 AM	60	0	0	0
10/3/2012 6:00:00 AM	60	0	0	0
10/3/2012 7:00:00 AM	60	0	0	0
10/3/2012 8:00:00 AM	32.6	48	0	0
10/3/2012 9:00:00 AM	32.7	253	46.4	17.9
10/3/2012 10:00:00 AM	32.6	256	25.7	10
10/3/2012 11:00:00 AM	60	0	0	0
10/3/2012 12:00:00 PM	60	0	0	0
10/3/2012 1:00:00 PM	60	0	0	0
10/3/2012 2:00:00 PM	60	0	0	0
10/3/2012 3:00:00 PM	60	0	0	0
10/3/2012 4:00:00 PM	60	0	0	0

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.

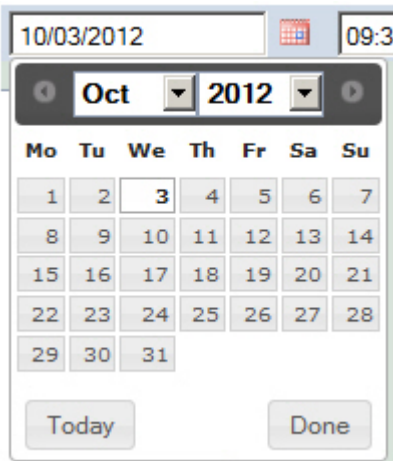
Slice on group

Parameter	1	2	Value	3
Point of time:	Selected date and time ▾	08/25/2016		10:28
Data source (zones and/or detectors):	Choose: All , None View: Hide all , Show all <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> <ul style="list-style-type: none"> - <input checked="" type="checkbox"/> Zone 1 <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Lane 1 <input checked="" type="checkbox"/> Lane 3 - <input checked="" type="checkbox"/> Zone 2 <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Lane 2 </div>			
Report's content:	Chart+Table ▾			
Title:	Slice on group			
View average speed data:	<input checked="" type="checkbox"/>			
View volume data:	<input checked="" type="checkbox"/>			
View density data:	<input checked="" type="checkbox"/>			
View Occupancy data:	<input checked="" type="checkbox"/>			


Execute 11

3. Specify parameters of Slice on group in the following way:
 - a. 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 (1).
 - b. 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 (2) field and date of report in the (3) field. Click the  button near the corresponding field to use the **Calendar** tool.



Note.

Click the  button to set the current system date and time as the report time (3).

- c. Set checkboxes next to those lanes and/or detectors by which the report is to be created (4).

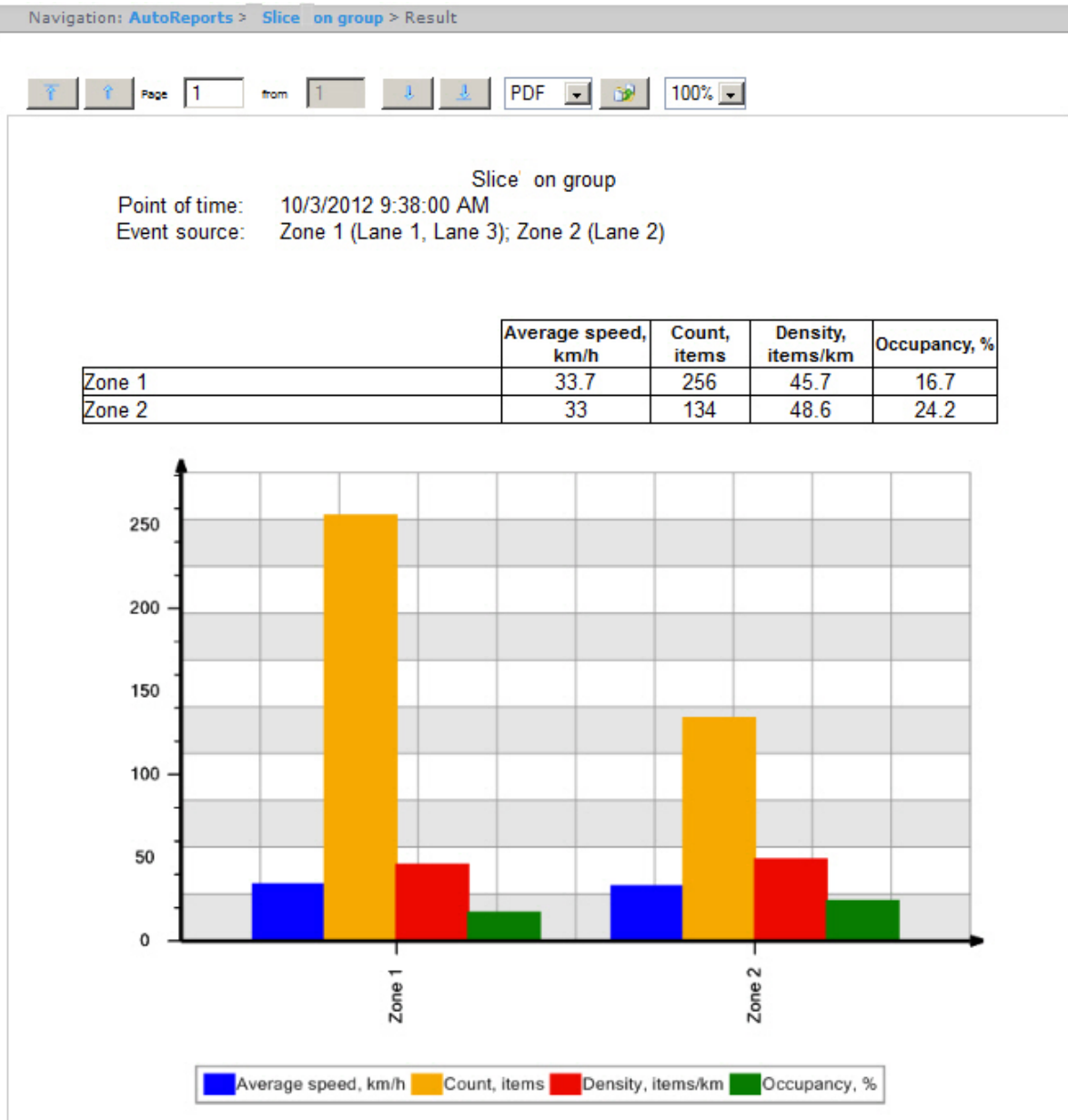
Note.

Click the **All** link to select all lanes and detectors in the list. Click the **None** link to uncheck all checkboxes.

- d. From the **Report's content** drop-down list select the way of report displaying (5).

- e. In the **Title** field enter the report name which is to be displayed (**6**).
 - f. Set the **View average speed data** checkbox to include the data about average speed on selected lanes (**7**).
 - g. Set the **View volume data** checkbox to include the data about vehicle numbers on lanes for the specified time period (**8**).
 - h. Set the **View density data** checkbox to include the data about vehicle numbers per kilometer on the specified lanes (**9**).
 - i. Set the **View Occupancy data** checkbox to include the data about percent of lanes occupancy (**10**).
4. Click **Execute** to create the report (**11**).

As a result the report in the selected form is displayed.



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.

Traffic statistic by vehicles groups

Parameter	Value
Period:	User defined from 02/11/2013 to 02/11/2013
Transport detection:	Traffic Detector 1
Lanes:	<input type="checkbox"/> Lane0 <input type="checkbox"/> Lane1 <input type="checkbox"/> Lane2 <input type="checkbox"/> Lane3 <input type="checkbox"/> Lane4 <input type="checkbox"/> Lane5
Vehicle groups:	<input checked="" type="checkbox"/> Small vehicles <input checked="" type="checkbox"/> Medium vehicles <input checked="" type="checkbox"/> Large vehicles
Displayed data:	<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
Execute	

3. Specify parameters of Traffic statistics by vehicles groups in the following way:
- In the **Period:** drop-down list select the time period for which the report is to be created (1).
 - 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 (2). Click the  button next to the corresponding field to use the **Calendar** tool.

from 02/11/2013 to 02/11/2013

Feb 2013

Mo	Tu	We	Th	Fr	Sa	Su
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28			

Today Done

- If the **User defined 2** period is selected, enter additionally the time of start and end periods for which the report is to be created using the  button.
If another period type is selected, specifying the date of start and end periods is not needed.
- In the **Transport detection** drop-down list select the **Transport detection** object, data of which is to be used to create the report (3).
- In the **Lanes** list set checkboxes next to those lanes data of which is to be included in the report (4).

Note.
In order to select all groups in the list click the **All** link. To uncheck all checkboxes click the **None** link.

- In the **Vehicle groups** list set checkboxes in those vehicle groups data of which is to be included in the

report (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).

g. In the **Displayed data** list set checkboxes next to those parameters which are to be included in the report (6).



Note.

In order to select all fields in the list click the **All** link. To uncheck all checkboxes click the **None** link.

4. Click **Execute** to create the report (7).

As a result the report in the selected form is displayed.

Navigation: [AUTO reports](#) > [Traffic statistics by vehicles groups](#) > Result

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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	67.2	0	0	0	10	9.7	0
Small vehicles	2615	65.7	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

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.

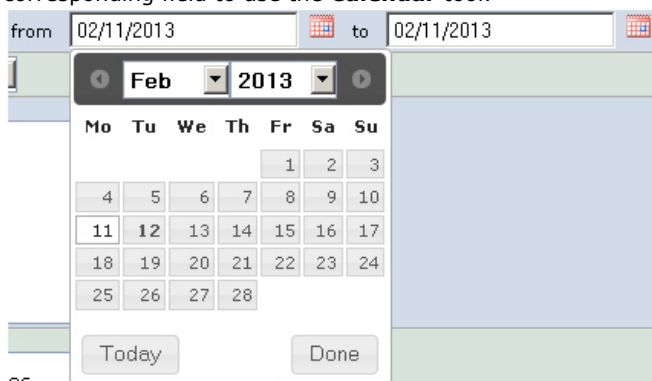
Traffic statistic by vehicles type


Parameter	1	Value	2
Period:	User defined	from 02/11/2013	to 02/11/2013
Transport detection:	Traffic Detector 1		
Lanes:	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		
Types of vehicles:	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		
Displayed data:	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		

Execute 7

3. Specify parameters of Traffic statistics by vehicles type in the following way:
 - a. In the **Period:** drop-down list select the time period for which the report is to be created (1).
 - b. 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 (2). Click the  button next to the corresponding field to use the **Calendar** tool.



- c. If the **User defined 2** period is selected, enter additionally the time of start and end periods for which the report is to be created using the  button.
 - If another period type is selected, specifying the date of start and end periods is not needed.
 - d. In the **Transport detection** drop-down list select the **Transport detection** object, data of which are to be used to create the report (3).
 - e. In the **Lanes** list set checkboxes next to those lanes data of which is to be included in the report (4).

 **Note.**

In order to select all lanes in the list click the **All** link. To uncheck all checkboxes click the **None** link.

- f. In the **Types of vehicles** list set checkboxes next to those vehicle types data of which is to be included in the report (5).

Note.
In order to select all groups in the list click the **All** link. To uncheck all checkboxes click the **None** link.

- g. In the **Displayed data** list set checkboxes next to those parameters which are to be included in the report (6).

Note.
In order to select all fields in the list click the **All** link. To uncheck all checkboxes click the **None** link.

4. Click **Execute** to create the report (7).

As a result the report in the selected form is displayed.

Navigation: [AUTO reports](#) > [Traffic statistics by vehicles type](#) > Result

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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

Working with general reports

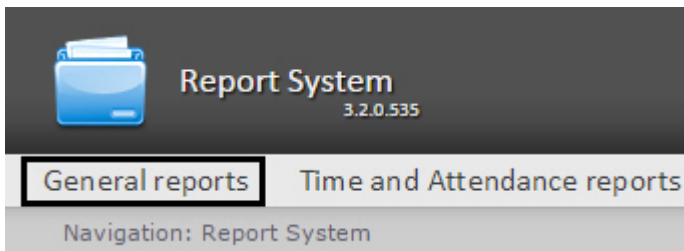
Selecting a type of general report

It is possible to create the following general reports:

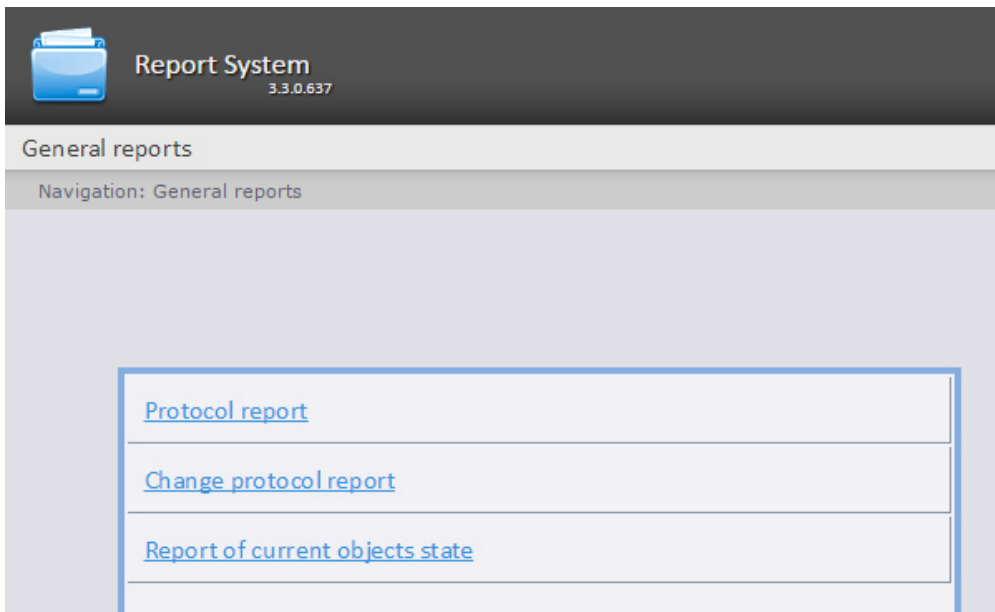
1. Protocol report. This report allows getting information on events presence from specified objects during the determined time period.

2. Change protocol report. This report allows getting information on performed object changes.
3. Report of current objects state. This report allows getting information about current status of objects.

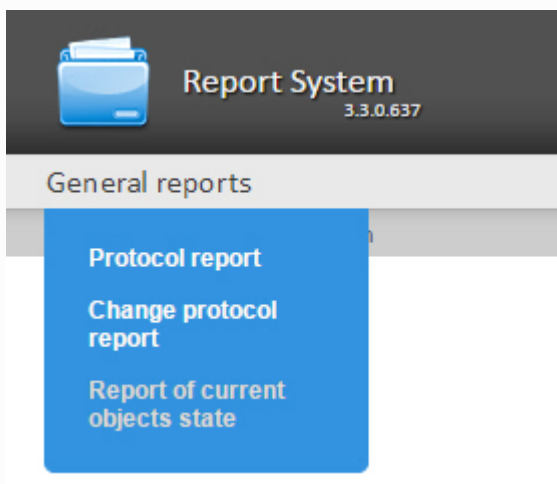
To select a type of general report click **General reports** link in the report menu of *Intellect Web Report System*.



As a result the list of available general reports is displayed. For switching to the required report click the corresponding link.



Note. List of links for switching to General reports is available when hovering over the **General reports** link in the report menu.



Creating a Protocol report

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

1. Select the **Protocol report** type (see [Selecting a type of general report](#) section).
2. As a result the dialog box for specifying the report parameters will be displayed.

General reports


Navigation: [General reports](#) > Protocol report


Protocol report

Parameter	1	2	Value	3
Objects and events:	<ul style="list-style-type: none"> Camera Computer User Video Capture Device Конвертер интерфейса СКУД Elsys 	Camera 1	>> <<	<input checked="" type="checkbox"/> Camera 2
Report with video:	<input type="checkbox"/>	4		
Camera:	Camera 1	5		
Filter:	No	6		
Filter text:		7		
Maximum of output strings:	2000	8		
Period:	User defined 2	from 11/03/2015 15:53	to 11/03/2015 15:53	9

Execute 10

Set the following report parameters:

1. Select the needed object type from the objects list (1).
2. Select objects on which the report is to be created from the objects list of corresponding type (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 (3).
5. Set the **Report with video** checkbox to create the report which will be contain video image from the camera (4).
6. From the **Camera**: drop-down list select the camera from which the video will be displayed in the report (5).
7. From the **Filter**: drop-down list select filter which will be applied to the report (6).
8. In the **Filter text**: enter a condition by which filter will be performed in the report (7).
9. In the **Maximum of output strings**: field enter the number of output strings in the protocol report (8).
10. Specify the period in the following way:
 - a. From the **Period**: drop-down list select the time period for which the report is to be created (9).
 - b. 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. Click the  button near the corresponding field to use the **Calendar** tool.



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

11. To create a report click **Execute** (10).

As a result the **Protocol report** with specified parameters is displayed.

General reports POS reports

Navigation: General reports > Protocol report > Result

Source	Object type	Event	Information	Date	Computer
1	Camera 1	Camera	Record off	1/17/2014 8:14:09 A	WS4
2	Camera 1	Camera	Connection lost	1/17/2014 8:14:10 A	WS4
3	Camera 1	Camera	Connection	1/17/2014 8:14:10 A	WS4
4	Camera 1	Camera	Alarm	1/17/2014 8:26:01 A	WS4
5	Camera 1	Camera	Alarm end	1/17/2014 8:26:12 A	WS4
6	Camera 1	Camera	Alarm	1/17/2014 9:03:41 A	WS4
7	Camera 1	Camera	Alarm end	1/17/2014 9:03:49 A	WS4
8	Camera 1	Camera	Alarm	1/17/2014 9:06:53 A	WS4
9	Camera 1	Camera	Alarm end	1/17/2014 9:06:56 A	WS4
10	Camera 1	Camera	Alarm	1/17/2014 9:08:03 A	WS4
11	Camera 1	Camera	Alarm end	1/17/2014 9:08:09 A	WS4
12	Camera 1	Camera	Alarm	1/17/2014 9:09:14 A	WS4
13	Camera 1	Camera	Alarm end	1/17/2014 9:09:22 A	WS4
14	Camera 1	Camera	Alarm	1/17/2014 9:10:31 A	WS4
15	Camera 1	Camera	Alarm end	1/17/2014 9:10:35 A	WS4
16	Camera 1	Camera	Alarm	1/17/2014 9:11:09 A	WS4
17	Camera 1	Camera	Alarm end	1/17/2014 9:11:16 A	WS4
18	Camera 1	Camera	Alarm	1/17/2014 9:12:53 A	WS4
19	Camera 1	Camera	Alarm end	1/17/2014 9:13:01 A	WS4
20	Camera 1	Camera	Alarm	1/17/2014 9:14:37 A	WS4
21	Camera 1	Camera	Alarm end	1/17/2014 9:14:44 A	WS4
22	Camera 1	Camera	Alarm	1/17/2014 9:15:02 A	WS4
23	Camera 1	Camera	Alarm end	1/17/2014 9:15:06 A	WS4
24	Camera 1	Camera	Alarm	1/17/2014 9:21:58 A	WS4
25	Камера 1	Camera	Alarm end	1/17/2014 9:22:43 A	WS4

Part 1: Table of protocol reports (highlighted in the image).

Part 2: Video player showing a camera feed (Camera 2) with a timeline on the right side.

Part 3: A placeholder area for an image, currently showing a red 'X' icon.

A form of the **Protocol report** with video displaying consists of three parts. Part **1** is equal to the print form of protocol reports without video displaying. Part **2** displays video from the selected camera. Part **3** displays image.

Video is displayed in case of the video archive for the specified period is existed. Otherwise, the last frame from archive is displayed.

Images corresponding to events of employee passes will be displayed while using the FSA/ACS module. Specify the path to the folder with images in the <add key="PathToPhotos" value="" /> parameter in the web.config file to display images. On default, the "/BMP/Person/" path is specified.

Names of files should correspond to ID of employees whose passes are displayed in report.



Attention!

It is impossible to print the form of **Protocol report** with video displaying. If it is needed to get the print form of the **Protocol report** create the report without video, i.e. the **Report with video:** checkbox should be deselected.

Protocol report

Period: 17.01.2014 - 17.01.2014

Source	Object type	Event	Information	Date	Computer
Камера 1	Camera	Record off		17/01/2014 8:14:09	WS4
Камера 1	Camera	Connection lost		17/01/2014 8:14:10	WS4
Камера 1	Camera	Connection		17/01/2014 8:14:10	WS4
Камера 1	Camera	Alarm		17/01/2014 8:26:01	WS4
Камера 1	Camera	Alarm end		17/01/2014 8:26:12	WS4
Камера 1	Camera	Alarm		17/01/2014 9:03:41	WS4
Камера 1	Camera	Alarm end		17/01/2014 9:03:49	WS4

**Attention!**



To create the auto generated protocol report you should select the report without video displaying.

Creating a Change protocol report

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


1. Select the **Change protocol report** type (see [Selecting a type of general report](#) section).
2. As a result the dialog box for specifying the report parameters will be displayed.

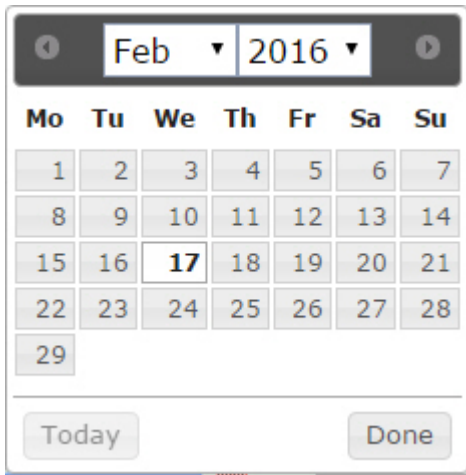
Change protocol report

Parameter	Value
Object type:	Choose: All , None <input checked="" type="checkbox"/> Access Level <input checked="" type="checkbox"/> Camera <input checked="" type="checkbox"/> Computer <input checked="" type="checkbox"/> Display <input checked="" type="checkbox"/> General reports <input checked="" type="checkbox"/> Security zone <input checked="" type="checkbox"/> TAM reports <input checked="" type="checkbox"/> Time Zone <input checked="" type="checkbox"/> Video capture device <input checked="" type="checkbox"/> Web Report System
Operators:	Choose: All , None <input checked="" type="checkbox"/> Unauthorized user
Delete objects:	<input checked="" type="checkbox"/> 3
Create objects:	<input checked="" type="checkbox"/> 4
Change objects:	<input checked="" type="checkbox"/> 5 6
Period:	User ▼ from 02/17/2016  to 02/17/2016 

Execute **7**

Set the following report parameters:

1. In the **Object type:** field set checkboxes in those types of objects to which the changed, created or removed object belongs (**1**).
2. In the **Operators:** field set checkboxes in those users who have rights to change objects (**2**). The **Unauthorized user** value means change of system by unauthorized user, deleted user and/or user with deleted rights.
3. To display deleted objects in the report set the corresponding checkbox (**3**).
4. To display created objects in the report set the corresponding checkbox (**4**).
5. To display objects which have been changed set the **Change objects** checkbox (**5**).
6. Specify the period in the following way:
 - a. From the **Period:** drop-down list select the time period for which the report is to be created (**6**).
 - b. 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. Click the  button near the corresponding field to use the **Calendar** tool.



7. To create a report click **Execute (7)**.

As a result a change protocol report with specified parameters is displayed.

General reports People Counter detectors POS reports Queue Length detectors Time and Attendance reports
 Navigation: [General reports](#) > [Change protocol report](#) > Result

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Change protocol report

Period:17.01.2016 - 17.02.2016

Object type	Object name	Event	User	Date	Computer	List of changes
Video capture device		Create	ADMIN	16/02/2016 10:33:27	R-FADIN-2	
Video capture device		Change	ADMIN	16/02/2016 10:33:32	R-FADIN-2	type <> => <Virtual>;
Camera		Create	ADMIN	16/02/2016 10:33:36	R-FADIN-2	
Camera		Change	ADMIN	16/02/2016 10:33:41	R-FADIN-2	source_folder <> => <C:\Users\tester\Desktop\piter>;
Display	Display 1	Change	ADMIN	16/02/2016 10:33:43	R-FADIN-2	SLAVE.guid.count <1> => <0>;
Display	Display 1	Change	ADMIN	16/02/2016 10:33:46	R-FADIN-2	SLAVE.guid.count <1> => <0>; SLAVE.slave_id.count <1> => <2>;
Monitor	Monitor 1	Change	ADMIN	16/02/2016 10:33:49	R-FADIN-2	CAM.ipstorage.count <1> => <2>; CAM.compressor.count <1> => <2>; CAM.stream_id.count <1> => <2>; CAM.direct_connect.count <1> => <2>; CAM.gstream_version.count <1> => <2>; CAM.gate.count <1> => <2>; CAM.guid.count <1> => <2>; CAM.arch.count <1> => <2>; CAM.speed.count <1> => <2>; CAM.cam.count <1> => <2>; CAM.compression.count <1> => <2>; CAM.gate_arch.count <1> => <2>;

Creating a report of current objects state

In order to create a report of current objects state, do the following:

1. Select the **Report of current objects state** type (see [Selecting a type of general report](#) section).
2. As a result the dialog box for specifying the report parameters will be displayed.



General reports

Navigation: [General reports](#) > Report of current objects state

Report of current objects state

Parameter	Value
Object:	Choose: All , None View: Hide all , Show all
	<div style="border: 2px solid black; padding: 5px;"><ul style="list-style-type: none">+ <input checked="" type="checkbox"/> Camera+ <input checked="" type="checkbox"/> Computer- <input type="checkbox"/> Time Zone<ul style="list-style-type: none"><input checked="" type="checkbox"/> Time Zone 1<input type="checkbox"/> Time Zone 2</div>
Period:	Current date and time



Set the following report parameters:

1. In the **Object:** field set checkboxes in those objects which current state is to be displayed in the report (**1**).



Note.

Only objects with status displayed on the map are given in the **Object** field.

2. Click the **Execute** button (**2**).

As a result a report of current objects state with specified parameters is displayed.

Report of current objects state

Period:09.08.2016 - 09.08.2016

Object ID	Object type	Object name	Changes
1	CAM	Camera 1	Armed
O-VOROBYOVA	SLAVE	LOCALHOST	Connected
1	TIME_ZONE	Time Zone 1	Inactive

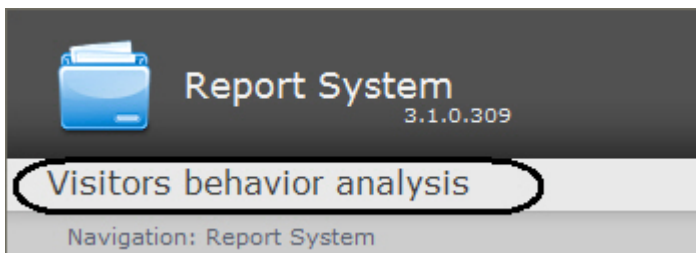
Working with Customer behavior reports

Selecting a type of Visitors behavior analysis reports

It is possible to create the following visitors behavior analysis reports:

1. Customer activity statistics report is used to inspect the change of customer activity over time and quantitatively estimate activity in different zones of monitored area.
2. Heat map report decides the issue of quick and quality comparison of customer activity in different zones of monitored area.

To select a type of visitors behavior analysis report click **Visitors behavior analysis** link in the report menu of *Intellect Web Report System*.



As a result the list of available visitors behavior analysis reports is displayed. For switching to the required report click the corresponding link.

Customer activity statistics	View reports by change of visitors activity in shop zones in time
Heat map	View of maps with visitors activity color indication in different points of shop.



Note.

List of links for switching to visitors behavior analysis reports is available when hovering the **Visitors behavior analysis** link in the report menu.

Creating the Customer activity statistics report

To create the customer activity statistics report, do the following:

1. Select the **Customer activity statistics** type (see [Selecting a type of Visitors behavior analysis reports](#) section).
2. As a result the dialog box for specifying the report parameters will be displayed.



Customer activity statistics

Parameter	Value
Receiving data period:	User defined 2 <input type="button" value="v"/> from 08/01/2014 <input type="button" value="calendar"/> 00:00 <input type="button" value="clock"/> to 08/31/2014 <input type="button" value="calendar"/> 00:00 <input type="button" value="clock"/> 1
Included week days:	Mon - Sun <input type="button" value="v"/> 2
Chart step:	15 minutes <input type="button" value="v"/> 3
Detectors:	Choose: All, None <input checked="" type="checkbox"/> Area 1 <input checked="" type="checkbox"/> Region 1.1 <input checked="" type="checkbox"/> Zone 1 4
Show in one axis:	<input checked="" type="checkbox"/> 5
<input type="button" value="Execute"/> 6	

Set the following report parameters:

1. Specify the period in the following way:
 - a. From the **Receiving data period:** drop-down list select the time period for which the report is to be created (**1**).
 - b. 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. Click the button near the corresponding field to use the **Calendar** tool.
 - c. If the **User defined 2** period is selected, enter additionally the time of start and end periods for which the report is to be created using the button.
If another period type is selected, specifying the date of start and end periods is not needed.

1. From the **Included week days:** drop-down list select days when most customers work (or conversely, not work) to consider in statistics (**2**).
2. From the **Chart step:** drop-down list select the time interval in which data will be averaged (**3**).



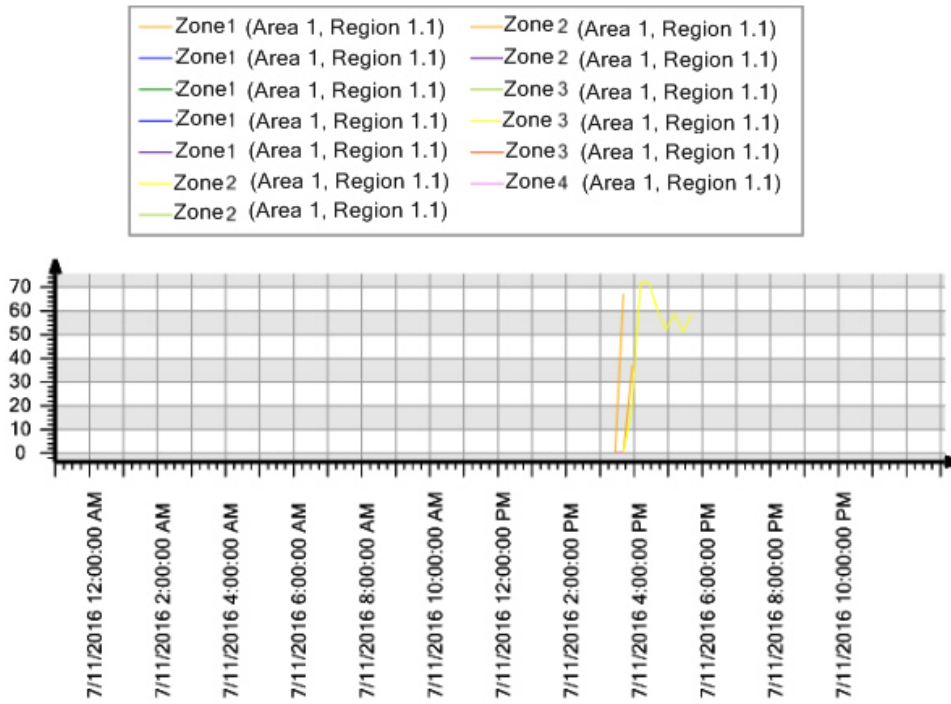
Note.

If receiving data period and specified included week days are not crossed the empty report will be created and message with proposal to change the **Included week days** parameter or specify another **Receiving data period** parameter.

3. In the **Detectors:** field set checkboxes in those zones information on which should be displayed in the report (**4**).
4. Set the **Show in one axis:** checkbox to display data from different areas in one chart (**5**).
5. To create a report click **Execute** (**6**).

As a result a **Customer activity statistics** report with specified parameters is displayed. The report displays average results for whole period and detailed statistics for each time interval.

Customer activity statistics
 Period: 7/11/2016 12:00:00 AM 7/11/2016 11:59:59 PM
 Included weekdays: Mon - Sun
 Chart step: 15 minutes
 Data source:



Detection	Period of data receiving	People
Average results for whole period		
Zone 1	7/11/2016 12:00:00 AM 7/11/2016 11:59:59 PM	19%
Zone 1	7/11/2016 12:00:00 AM 7/11/2016 11:59:59 PM	0%
Zone 1	7/11/2016 12:00:00 AM 7/11/2016 11:59:59 PM	0%
Zone 2	7/11/2016 12:00:00 AM 7/11/2016 11:59:59 PM	49%
Zone 2	7/11/2016 12:00:00 AM 7/11/2016 11:59:59 PM	0%
Zone 2	7/11/2016 12:00:00 AM 7/11/2016 11:59:59 PM	34%
Detailed statistics by points		
Zone 1	7/11/2016 3:30:00 PM 7/11/2016 3:44:59 PM	0%
Zone 1	7/11/2016 3:45:00 PM 7/11/2016 3:59:59 PM	37%
Zone 1	7/11/2016 3:30:00 PM 7/11/2016 3:44:59 PM	0%
Zone 1	7/11/2016 3:15:00 PM 7/11/2016 3:29:59 PM	0%
Zone 2	7/11/2016 3:30:00 PM 7/11/2016 3:44:59 PM	0%
Zone 2	7/11/2016 3:45:00 PM 7/11/2016 3:59:59 PM	20%
Zone 2	7/11/2016 4:00:00 PM 7/11/2016 4:14:59 PM	72%

Creating a Heat map report

To create the heat map report, do the following:

1. Select the **Heat map** type (see the [Selecting a type of Visitors behavior analysis reports](#) section).
2. As a result the dialog box for specifying the report parameters will be displayed.

Set the following report parameters:

1. Specify the period in the following way:
 - a. From the **Receiving data period:** drop-down list select the time period for which the report is to be created (1).
 - b. 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. Click the button near the corresponding field to use the **Calendar** tool.
 - c. If the **User defined 2** period is selected, enter additionally the time of start and end periods for which the report is to be created using the button.

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

2. From the **Included week days:** drop-down list select days when most customers work (or conversely, not work) to consider in statistics (2).

Note. If receiving data period and specified included week days are not crossed the empty report will be created and message with proposal to change the **Included week days** parameter or specify another **Receiving data period** parameter.

3. In the **Detectors:** field set checkboxes in those zones information on which should be displayed in the report (3).
4. From the **Conversion function:** drop-down list select the function of converting initial data to relative values (4).

Note. Different conversion functions are designed to pay special attention to various aspects of a store customers behavior statistics.

5. Set the **Absolute scale** checkbox if it's required to display initial data without any changes (5).

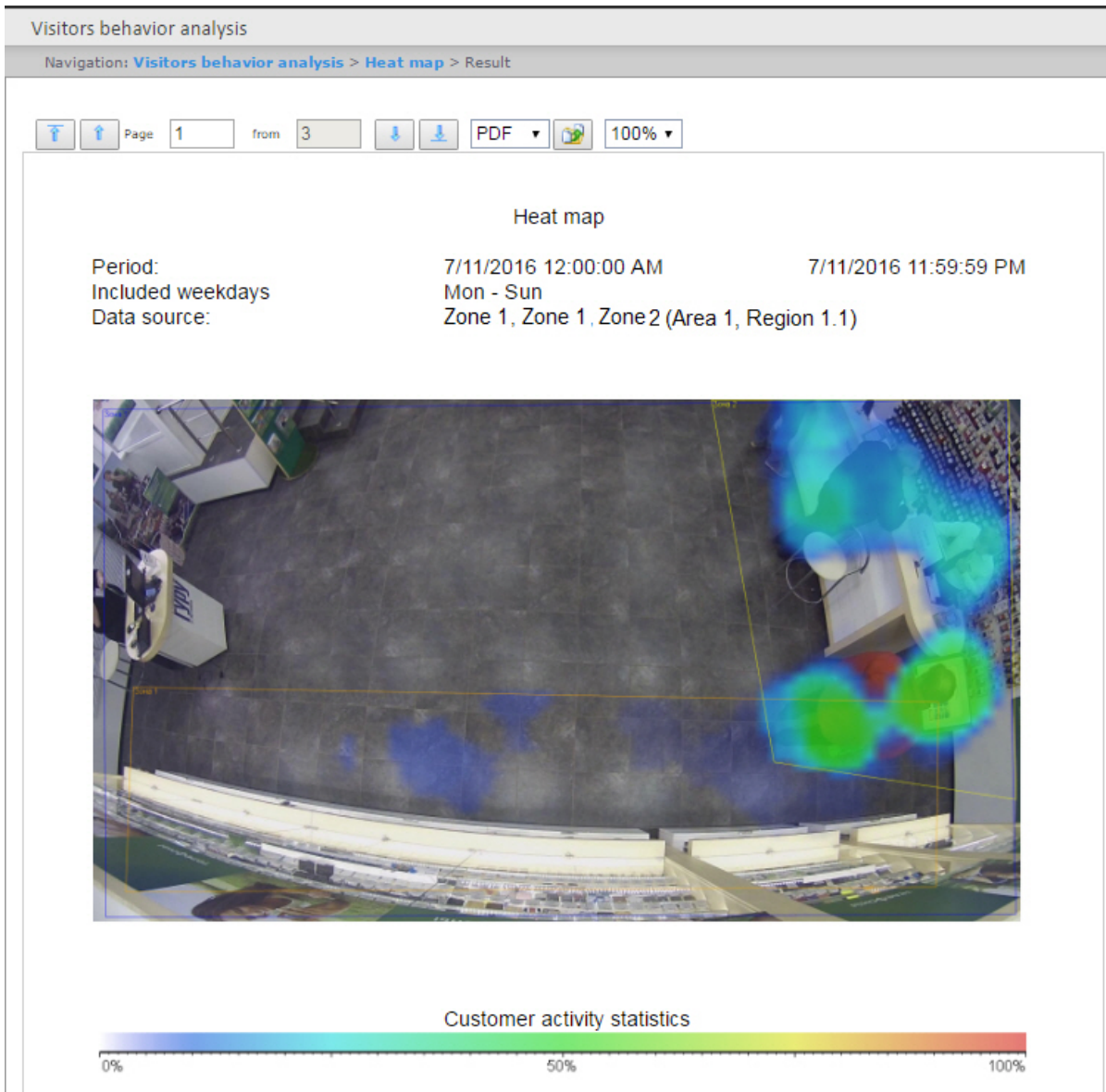


Note.

The most toneless colour corresponds to the null customer activity and the red color corresponds to the 100% customer activity in a store zones. Often the customer activity is fluctuates, for example, in a range from 0% to 20% and for the best visual acceptability of statistics remove the **Absolute scale** checkbox, then each value of activity will be multiplied by 100 %\20%=5 (in case of linear conversion function is in use) and the activity statistics will be displayed by all range of colors.

6. To create a report click **Execute** (6).

As a result a Heat map report with specified parameters is displayed. Visitors activity in different points of observed area is highlighted in corresponding color.



Exporting of reports

Intellect Web Report System allows exporting the created reports to computer in the following formats:

- PDF;
- RTF;
- HTML;
- Excel;
- CSV;
- Text.

From the dropdown list (1) select a format in which the report is exported and click the button (2).

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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