

Report System

Intellect Web Report System. User Guide

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1 Introduction

1.1 The purpose of the 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.

1.2 Purpose of the 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* and *Face-Intellect* 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. They also include Sweathearting monitoring for which the *Intellect Detector Pack* software package is required.
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.

1.3 Components of the 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.

2 Requirements for Intellect Web Report System implementation

2.1 The web server of the Intellect Web Report System

To implement the web server 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](#).

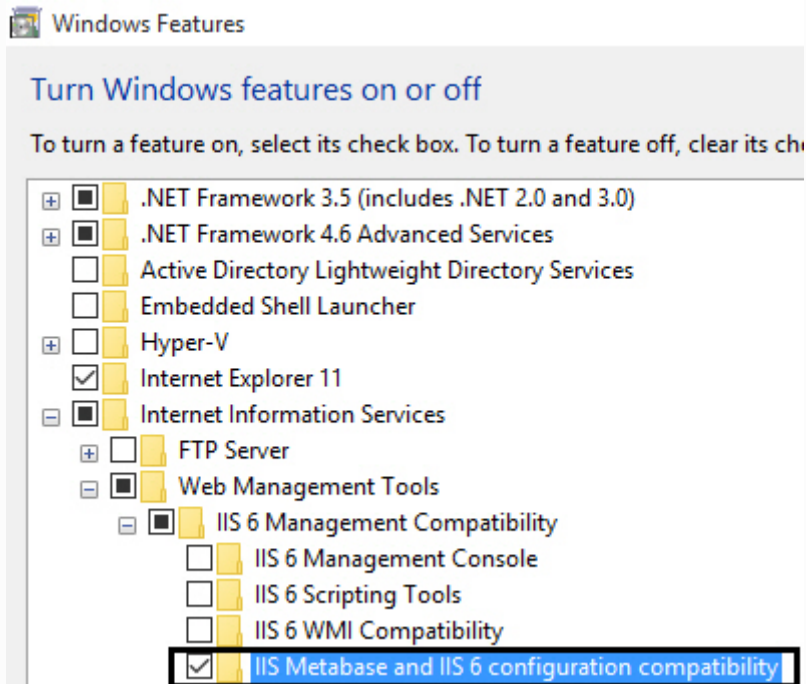
Note.

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.

2.2 The client of the Intellect Web Report System

2.2.1 General requirements

To ensure the proper *Intellect Web Report System* web interface displaying on the Client, the following requirements should be met:

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

Attention!

When working with *Intellect Web Report System* in the 64-bit operating system, it is recommended to use the *Internet Explorer* 32-bit browser.

2. To view the video archive of the event from the report:
 - a. The use of ActiveX components in the browser should be permitted.
 - b. The ActiveX *CamMonitor* component should be installed.

Note

The *CamMonitor* component is installed automatically with *Intellect* software package. If *Intellect* software package is not installed on the Client, it is necessary to install the *CamMonitor* component separately.

Attention!

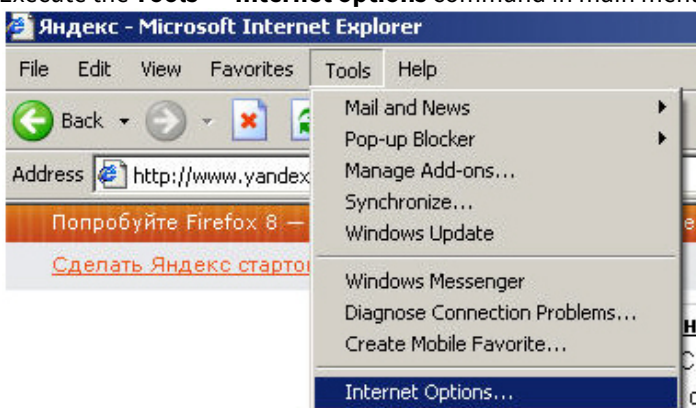
Web browsers that do not support ActiveX, display all text reports without the ability to view the video archive.

2.2.2 Setting up security parameters in Internet Explorer

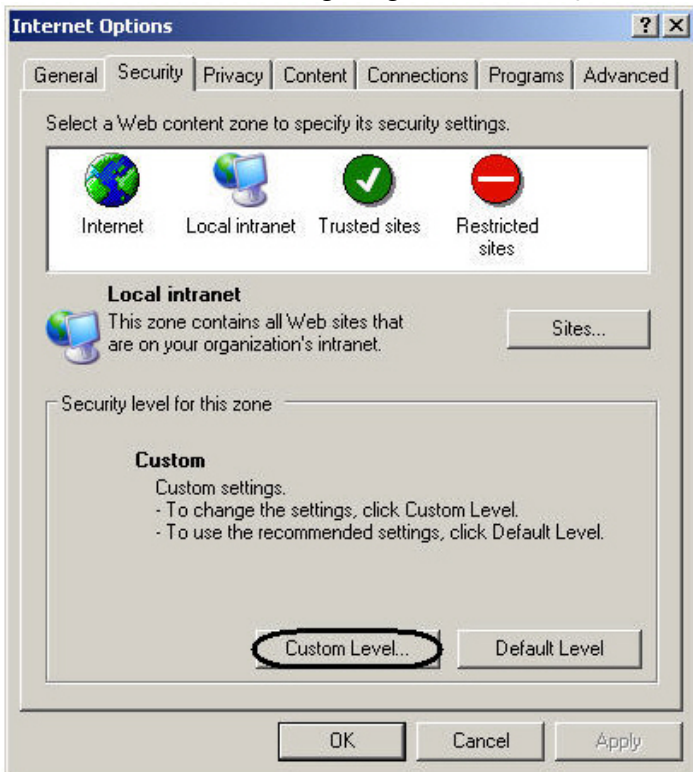
By default the use of ActiveX components is forbidden in *Internet Explorer*, that is why it's necessary to set extra security parameters.

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.

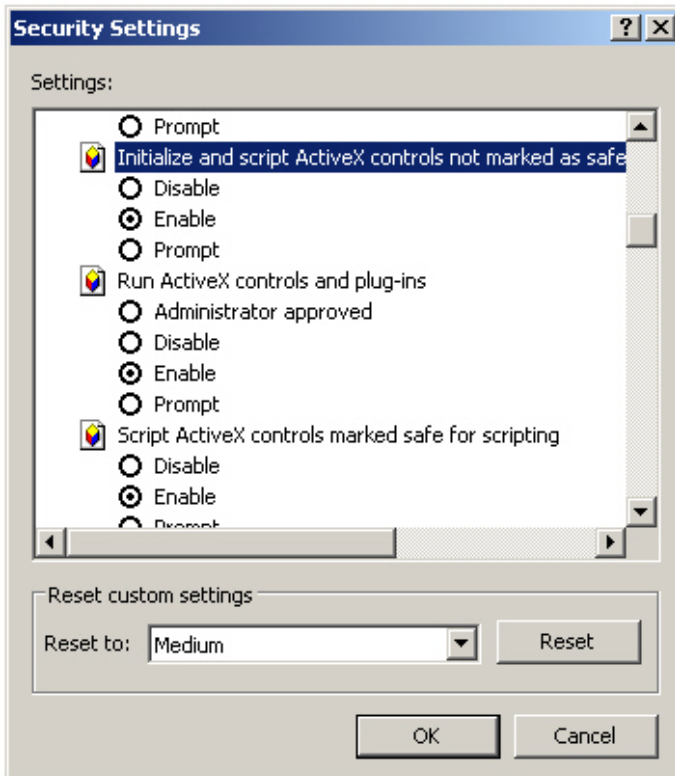


3. In selected zone of dialog box (selected on default) click **Custom level**.

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.

3 Intellect Web Report System installation and removal

3.1 Installation

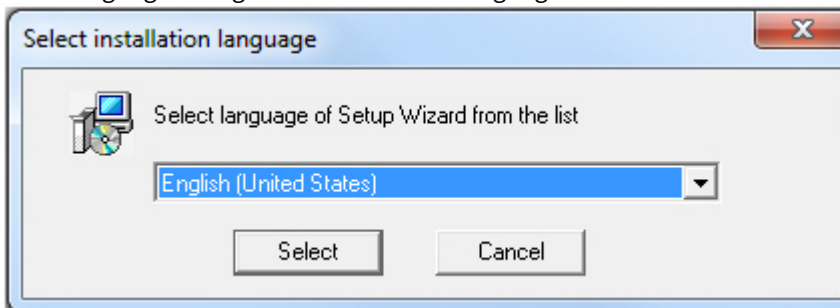
The *Intellect Web Report System* is installed as a part of the *Intellect* software. Information about compatibility of the *Intellect* software versions and *Intellect Web Report System* is presented by link: [General information about product releases and versions compatibility](#).

Important!

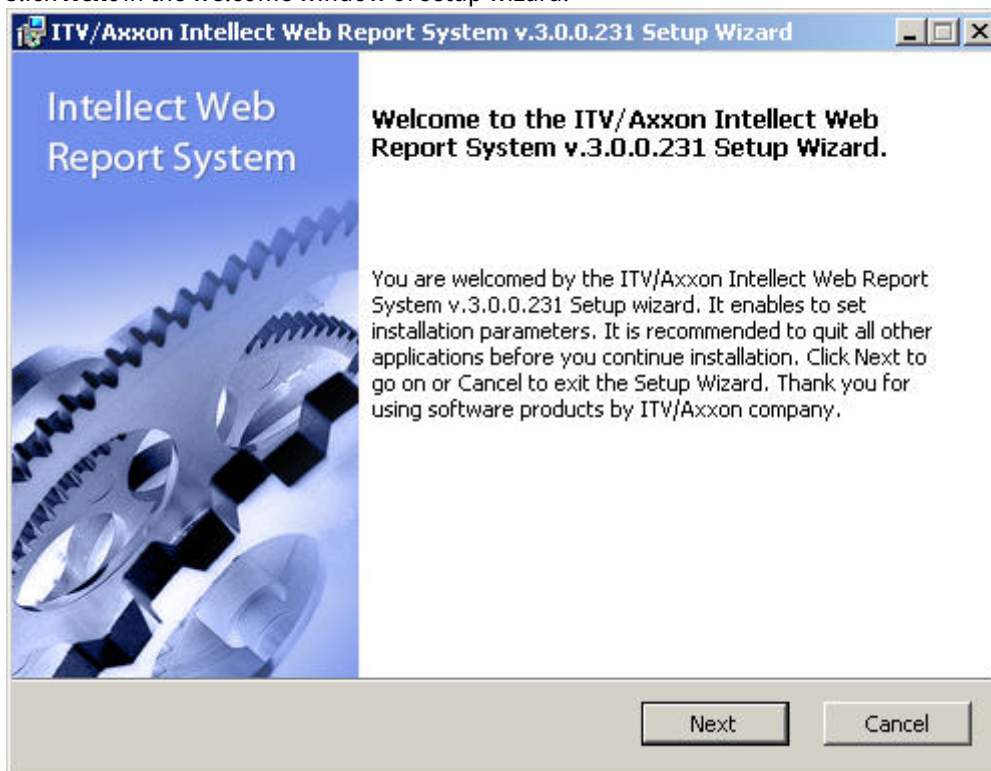
The *Intellect Web Report System* should be installed on both **Server/Remote administrator workplace (RAW)** and **Client** (for details, see [Intellect software. Administrator's Guide](#)).

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.

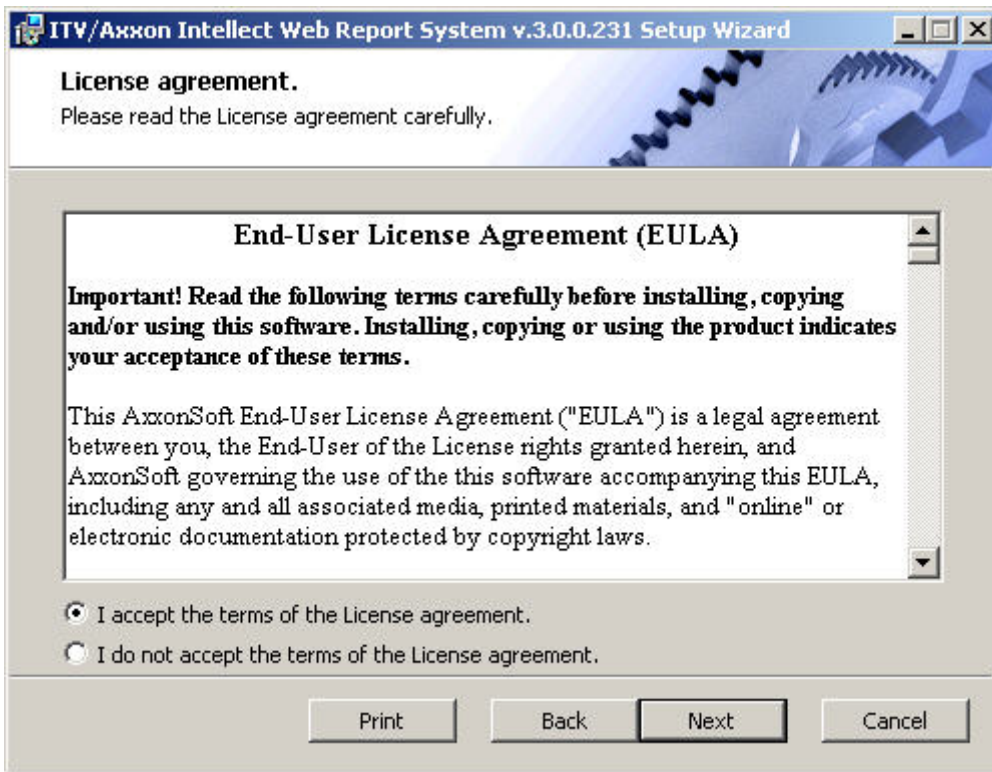


3. Click **Next** in the welcome window of setup wizard.



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**.



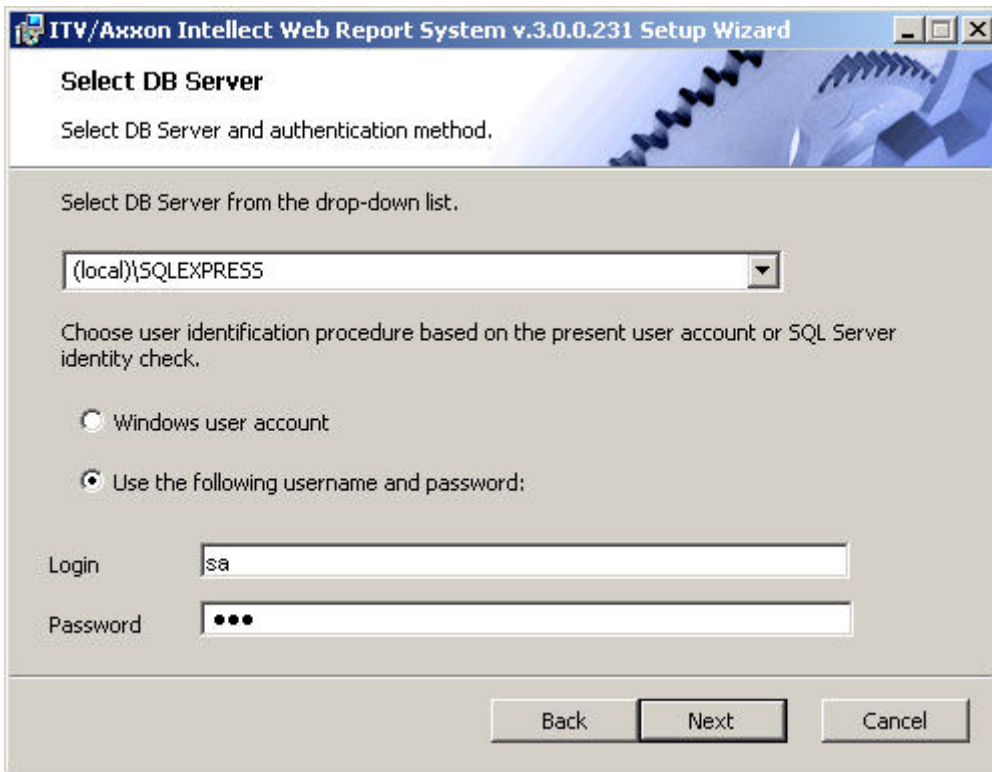
The **Select DB server** window is displayed.

- 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:

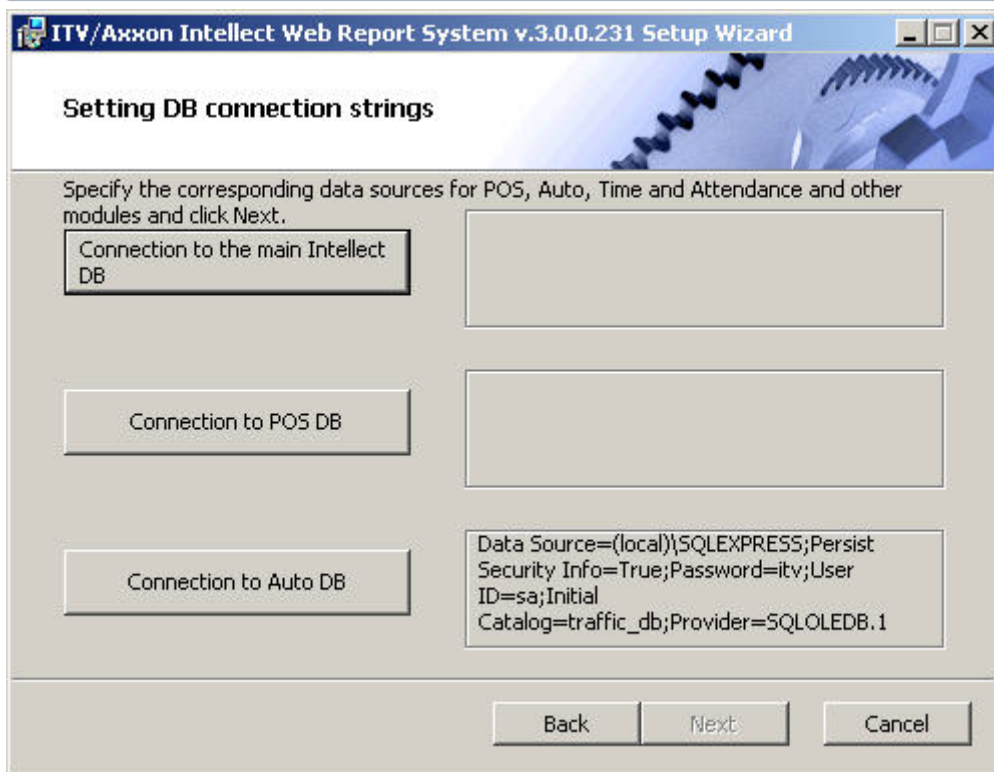
- a. When SQL server where it's necessary to create *Intellect Web Report System* system database and system itself are installed on one computer.
- b. When SQL server and *Intellect Web Report System* system are installed on different computers connected by TCP/IP and located in one network domain.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

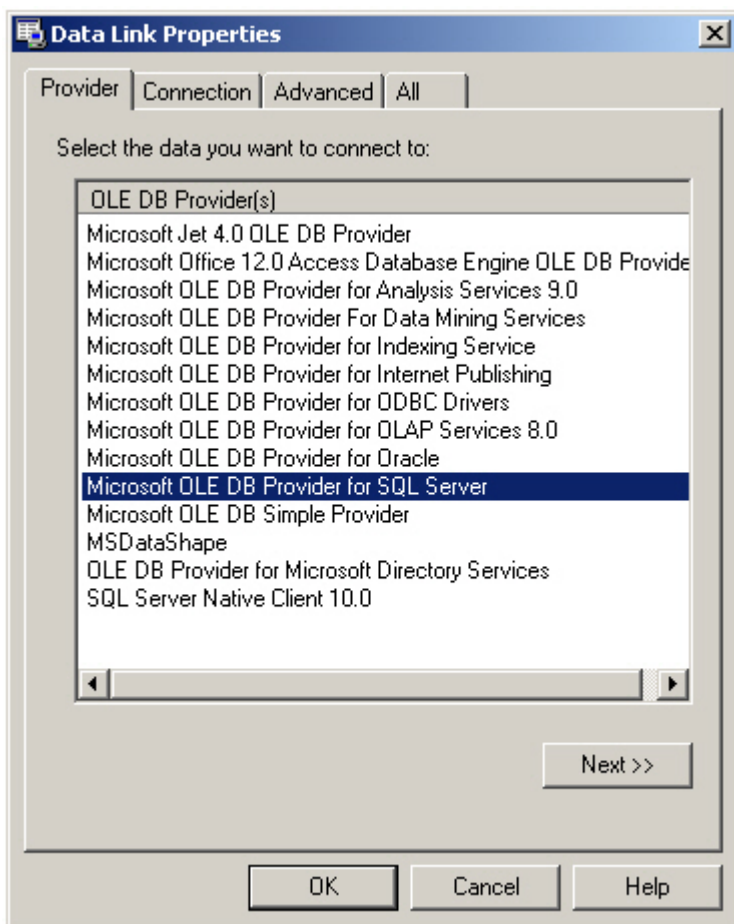
The window where it is necessary to set connection string of *Report System* to the database of Time and attendance module, to *POS Intellect* database and/or *AUTO Intellect* database. Connected databases will be the data source when creating reports.

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).

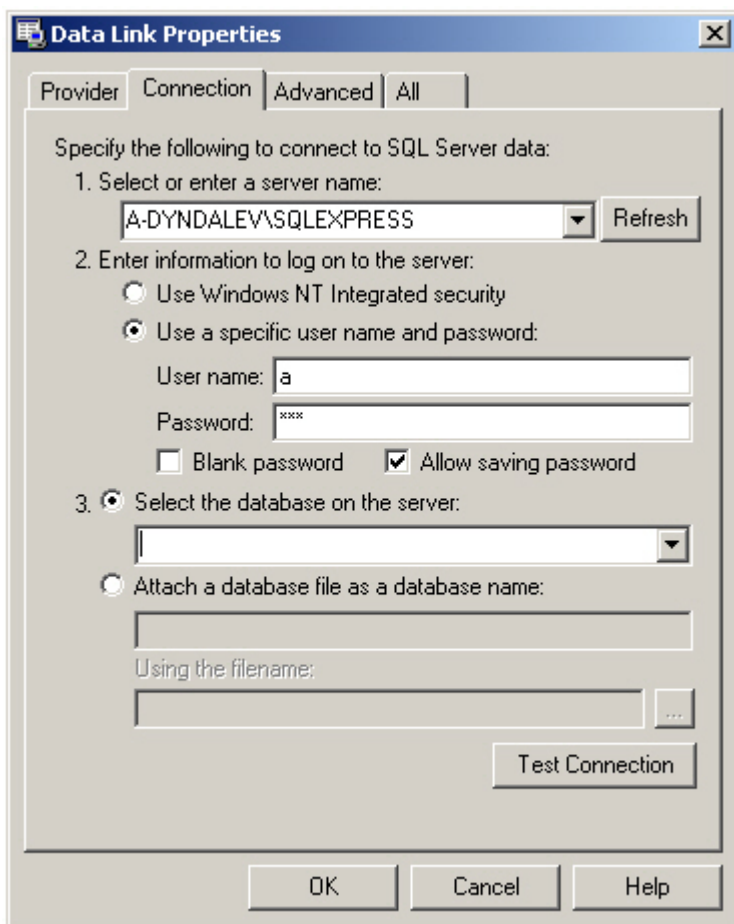


8. To set connection string to the database of *Time and Attendance* module do the following:
 - 8.1 Click **Connection to the main Intellect DB**.
 - 8.2 As a result the **Data link properties** dialog box is displayed.



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**.

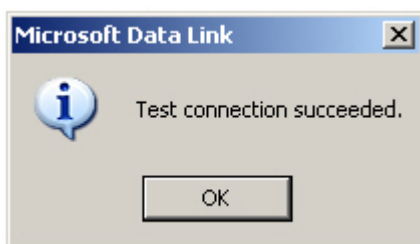


8.5 In **1. Select or enter a server name** line select from the list or enter manually the name of SQL server where database of *Time and Attendance* module is stored.

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.

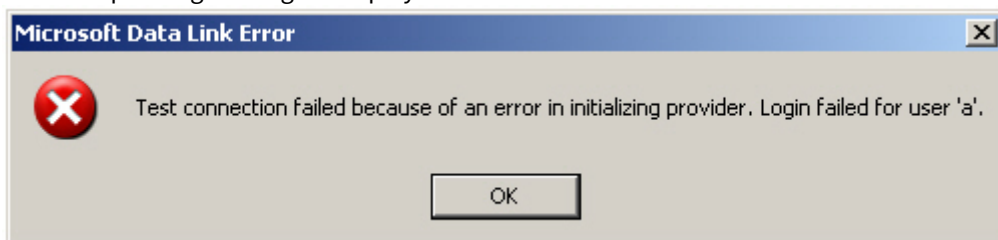
8.7 To check connection to SQL server click **Test connection**.

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.

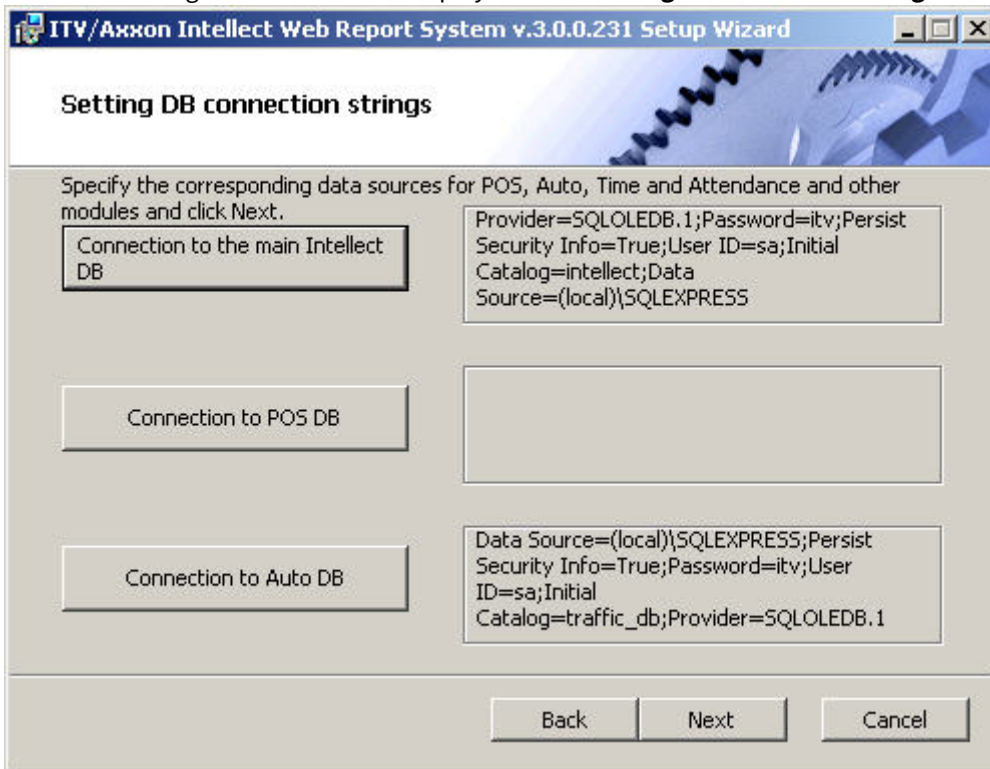
10. To set connection string to *AUTO* database do the following:

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*).

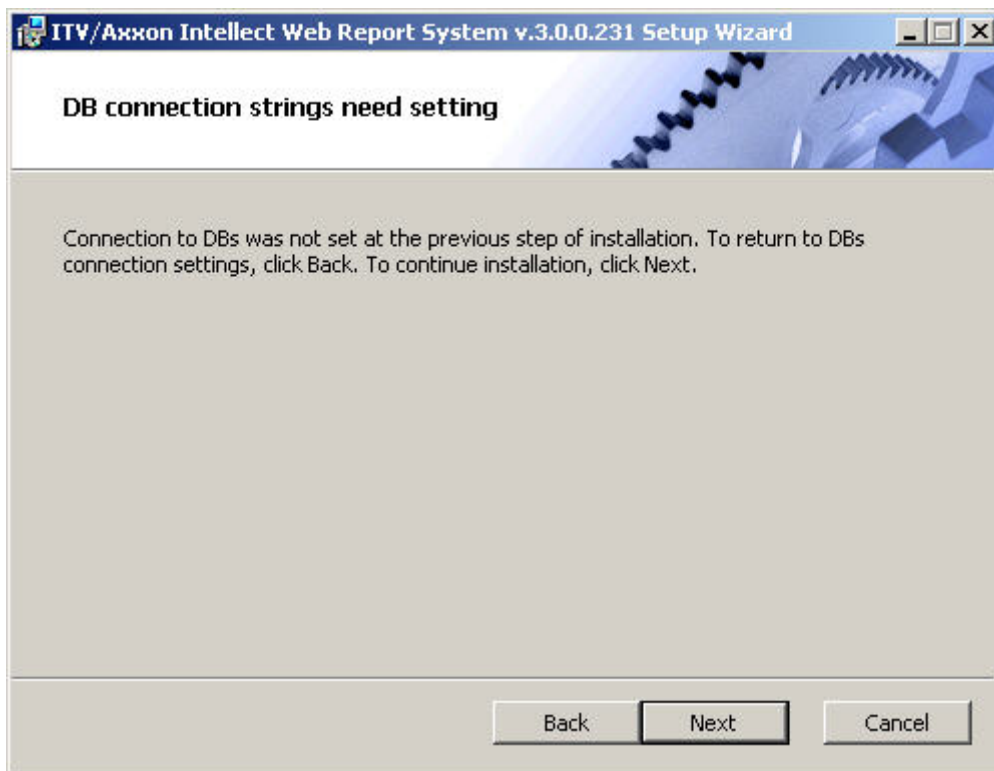
Connection strings to databases are displayed in the **Setting DB connection strings** dialog box.



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).



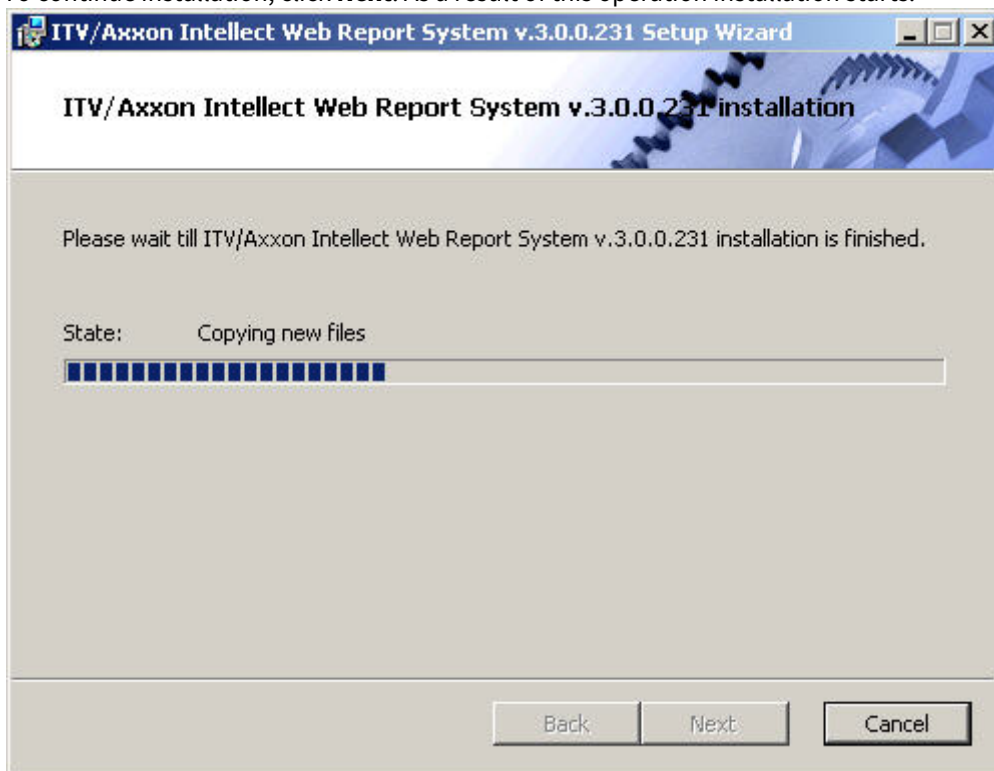
This dialog box warns about failure of connection to DB that doesn't guarantee the operation of the system.

Note.

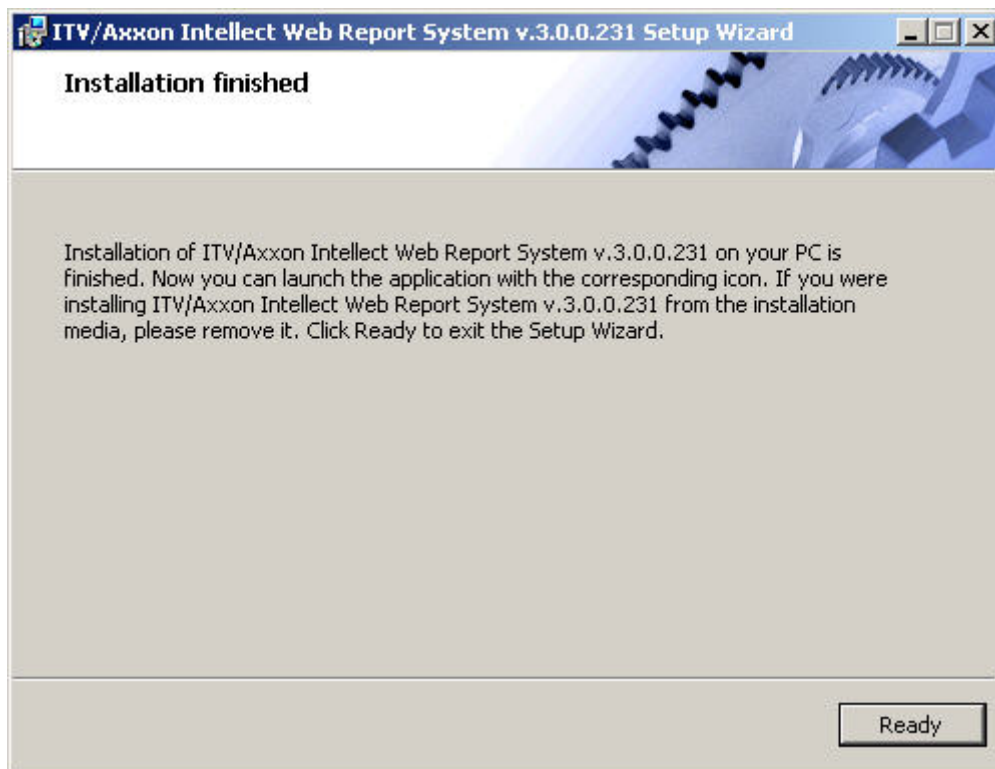
If there was installation without setting connection to DB then you can set the connection to DB using C:\Program Files\Интеллект\Modules\Wt2\Web.config file and adding connection strings. Examples of connection strings are given below:

- 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.

3.2 Repairing

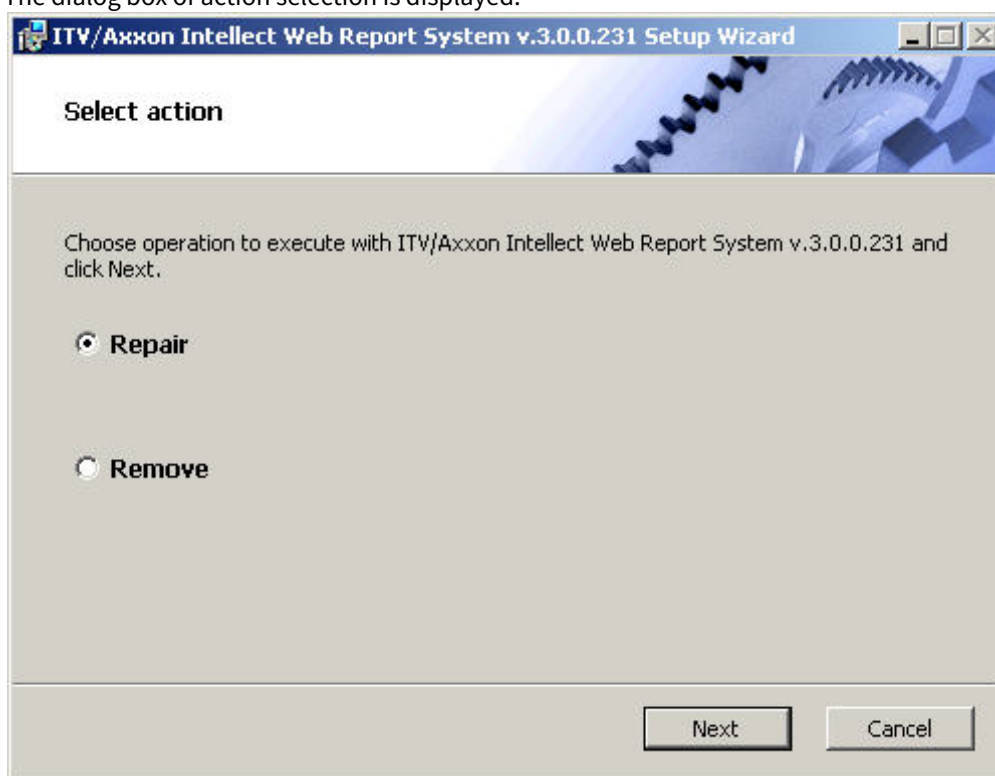
Repairing mode is designed for reinstallation of all components of *Intellect Web Report System*.

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

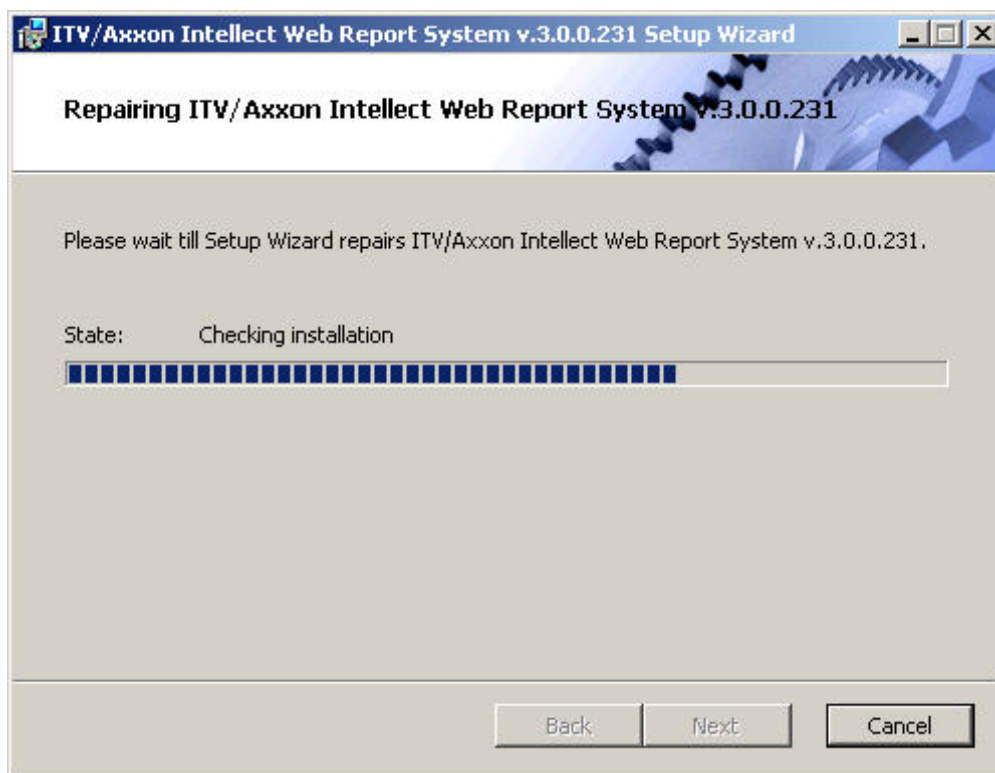
To repair *Intellect Web Report System* do the following:

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!

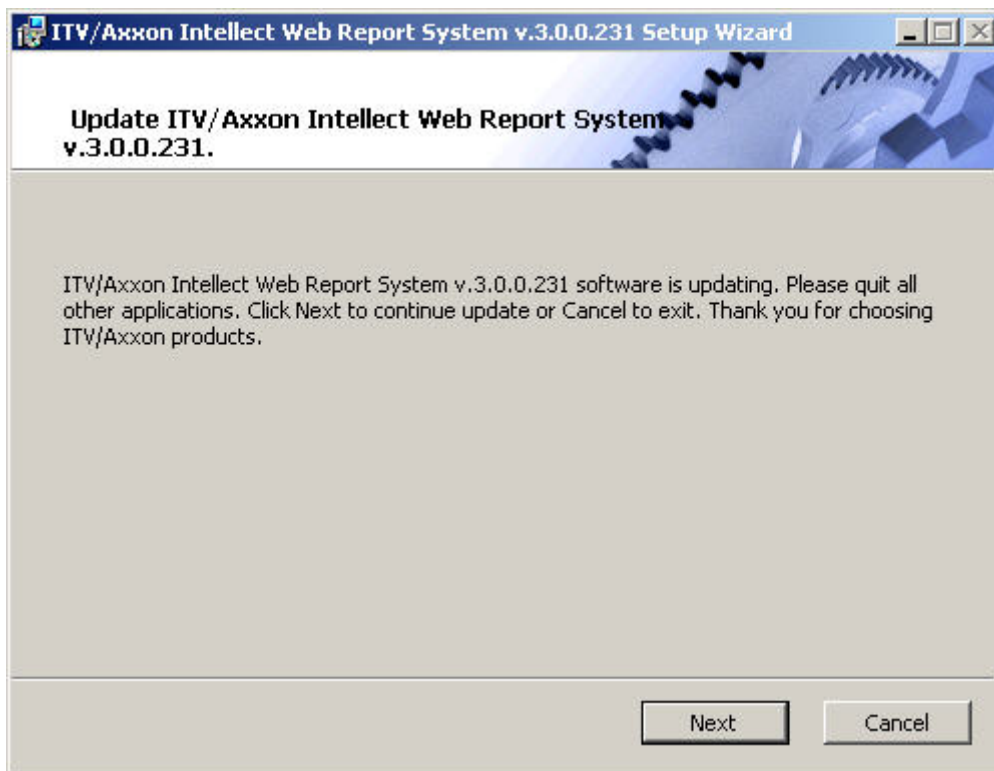
After *Intellect Web Report System* repairing it's necessary to restart Intellect software package.

3.3 Updating

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

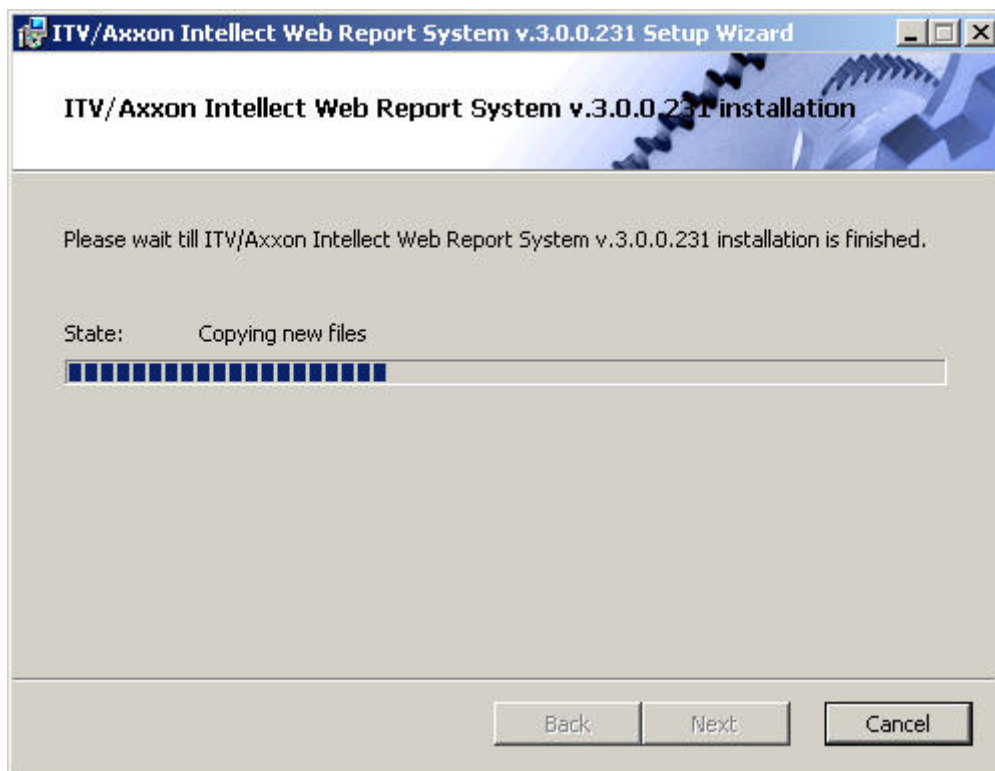
To update *Intellect Web Report System* do the following:

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.

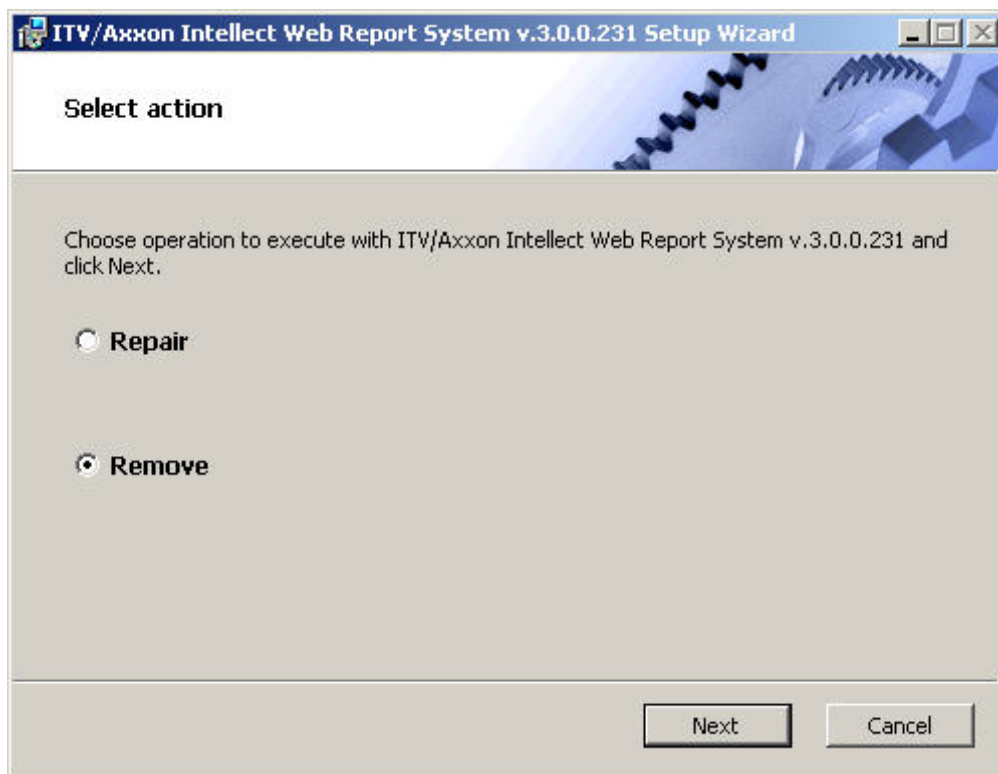
3.4 Removal

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:

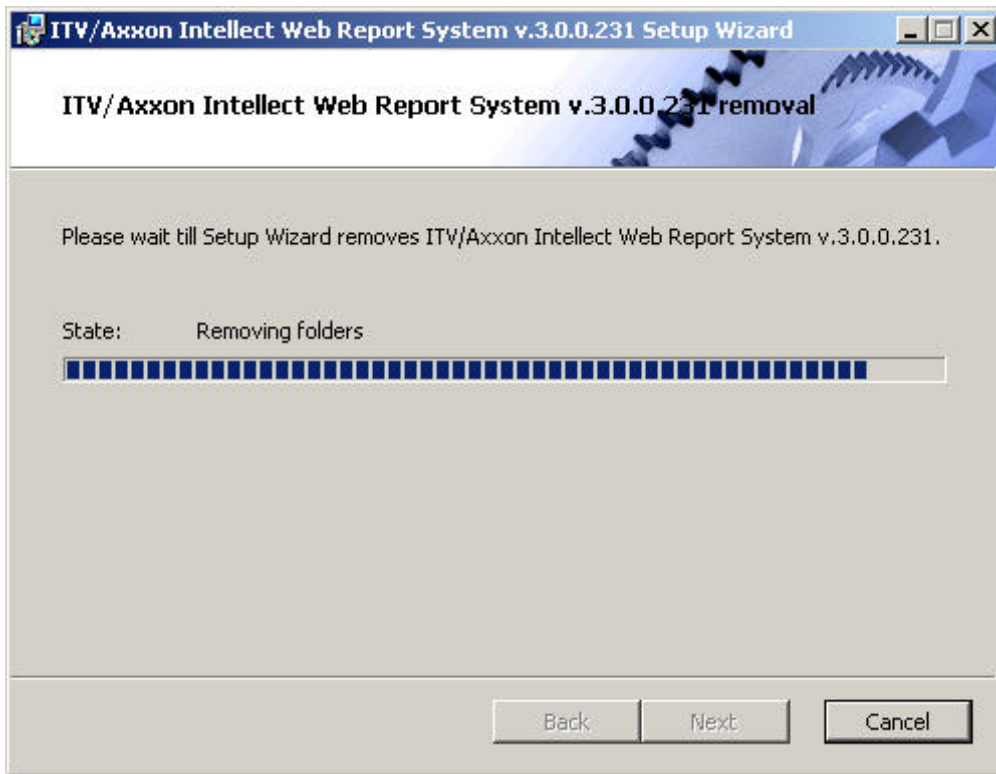
1. Using *Add or Remove Programs application* of Windows OS control panel;
2. Using *ReportSystem.msi* installation package.

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.

4 Intellect Web Report System licensing

4.1 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.

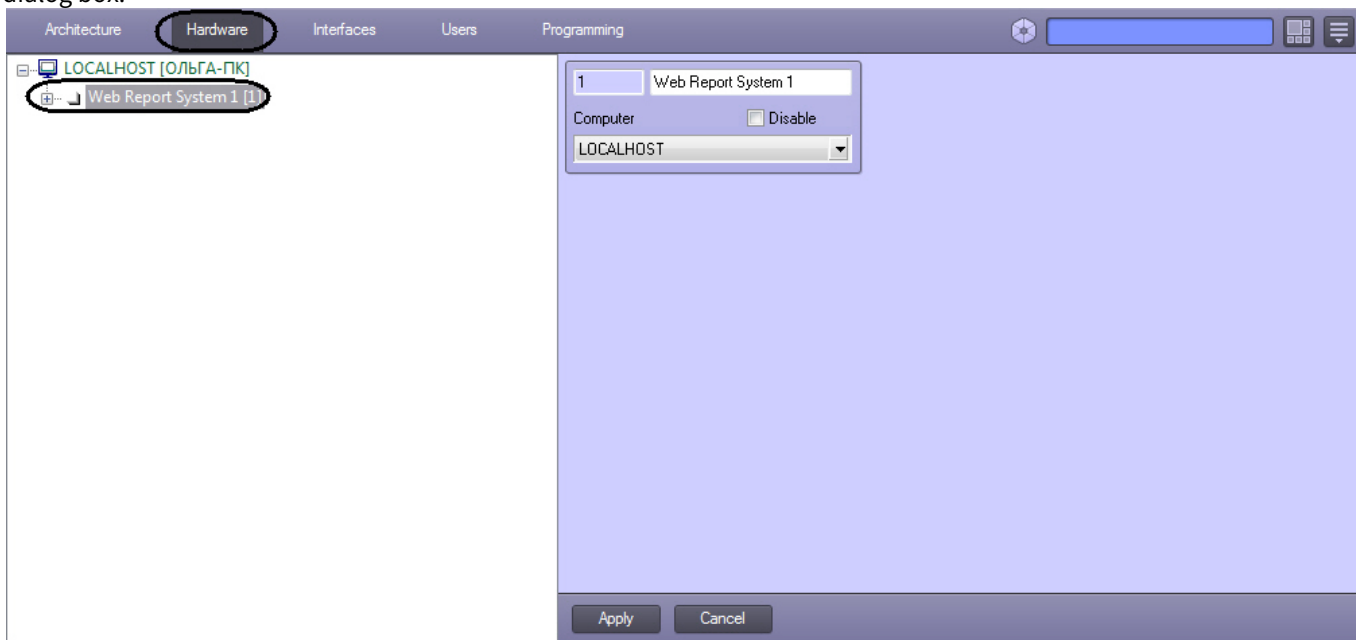
4.2 Activation of Intellect Web Report System functionality

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.

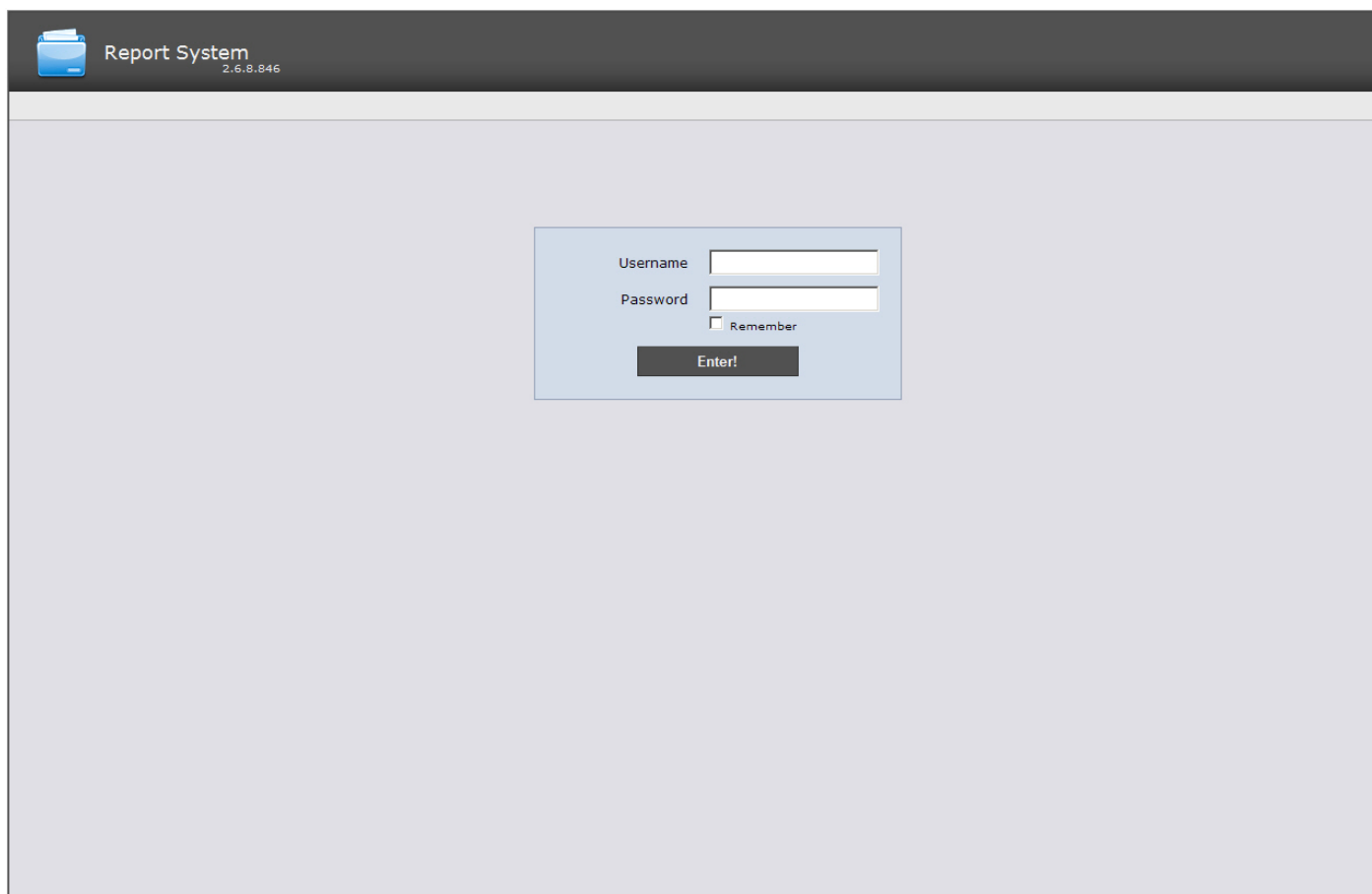
5 Intellect Web Report System startup and shutdown

5.1 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.



The screenshot shows the authorization page for the Intellect Web Report System. At the top left, there is a blue folder icon and the text "Report System" with the version number "2.6.8.846" below it. The main area of the page is a light gray gradient. In the center, there is a light blue rectangular box containing the login form. The form has two input fields: "Username" and "Password". Below the "Password" field is a checkbox labeled "Remember". At the bottom of the form is a dark gray button with the text "Enter!" in white.

5.2 Authorization

Note

The authorization page is displayed in the language selected in the browser by default or specified in **Web.config** file (see details in [Change the Intellect Web Report System interface language](#)).

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

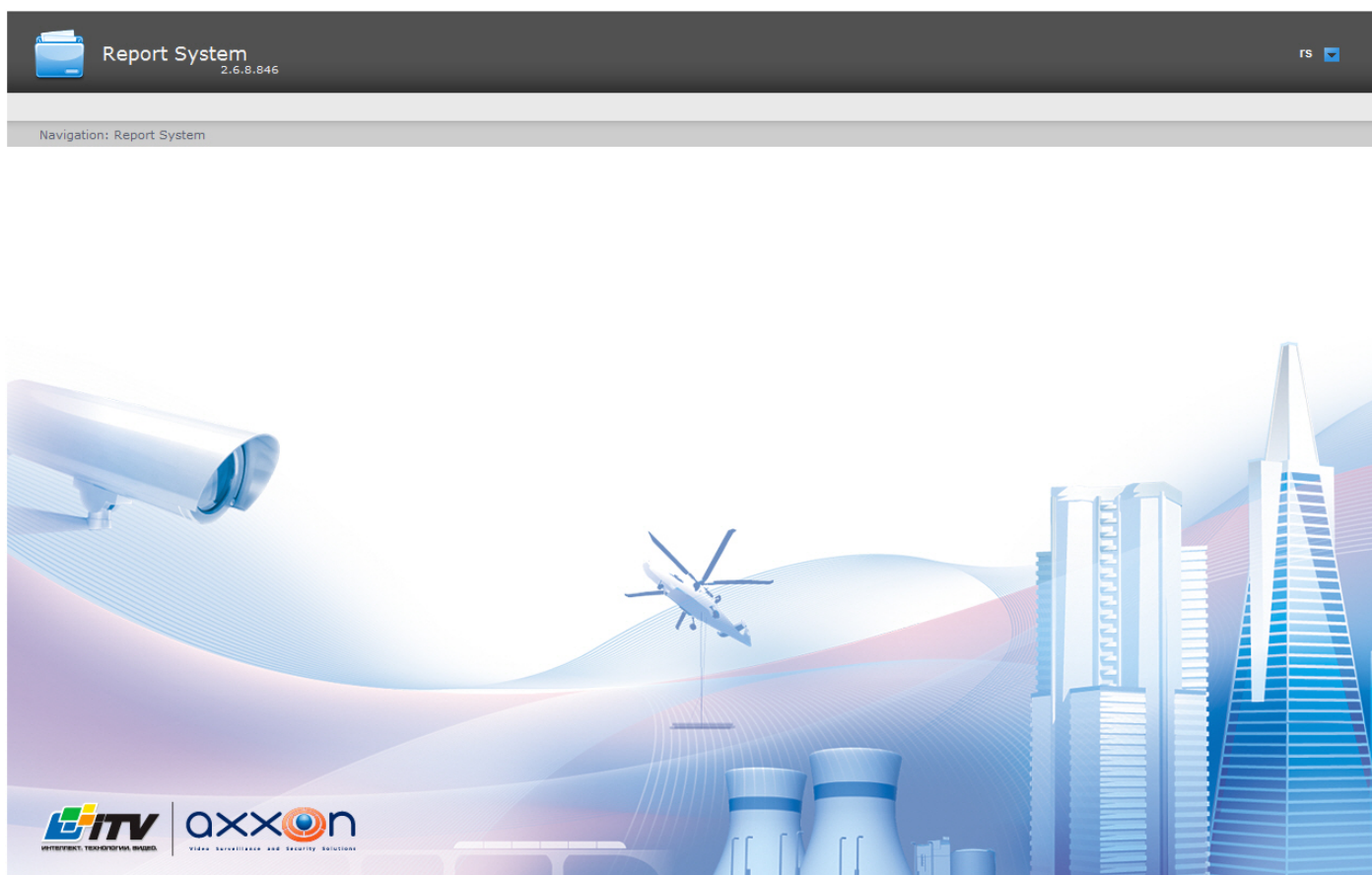
1. Start *Intellect Web Report System* in one of the available ways (see [Ways of starting](#)).
2. Type the username, password.

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**

The interface of the document page is described in [Intellect Web Report System interface](#) chapter.

5.3 Shutdown

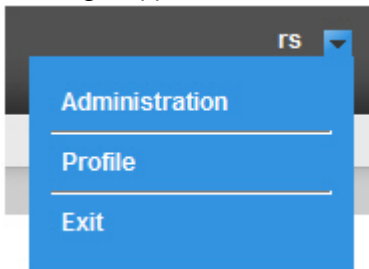
To shutdown *Intellect Web Report System* close the window in the browser.

5.4 User switching

One can quickly switch between user accounts of the *Intellect Web Report System*.

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.


6 Intellect Web Report System interface

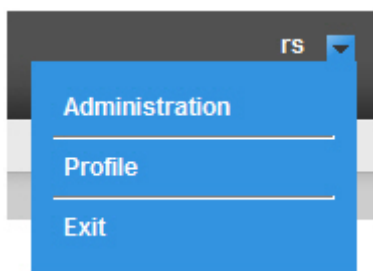
Intellect Web Report System interface consists of the following elements:

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

6.1 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.



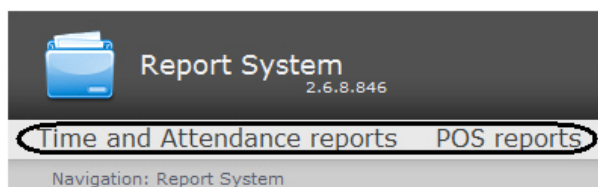
The following operations are available from the context menu:

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.

6.2 Documents page

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.

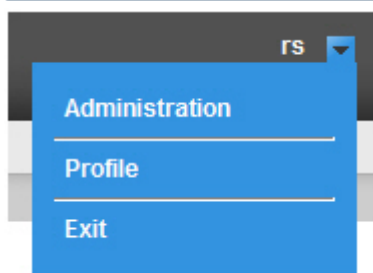
If there are no operation rights for Time and Attendance reports and/or POS reports then the corresponding items of the reports menu (POS reports, Time and Attendance reports) are not displayed.

6.3 Administration page

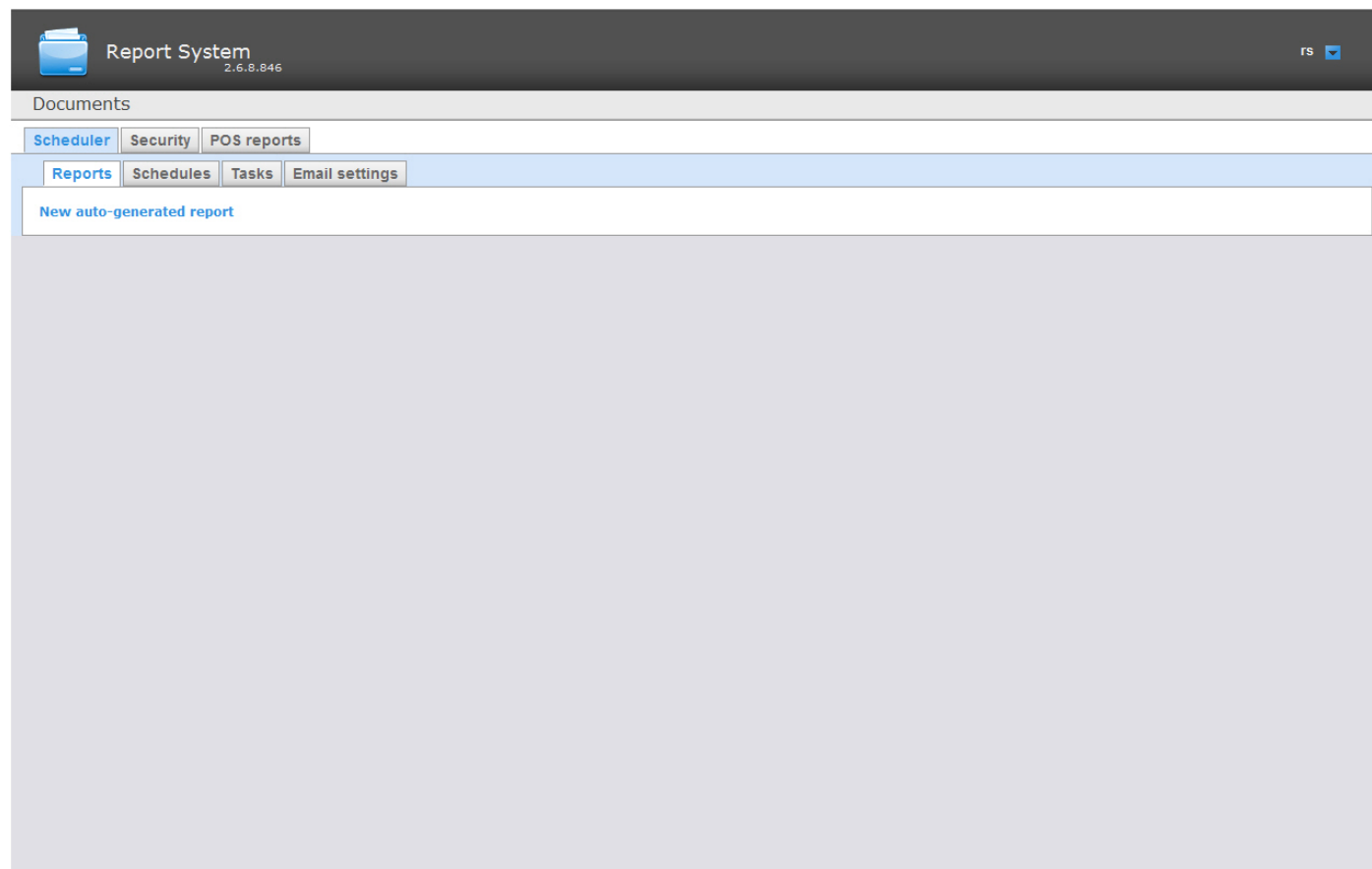
Switch to the *Intellect Web Report System* administration page is carried out through the context menu by selecting the **Administration** item.

Note.

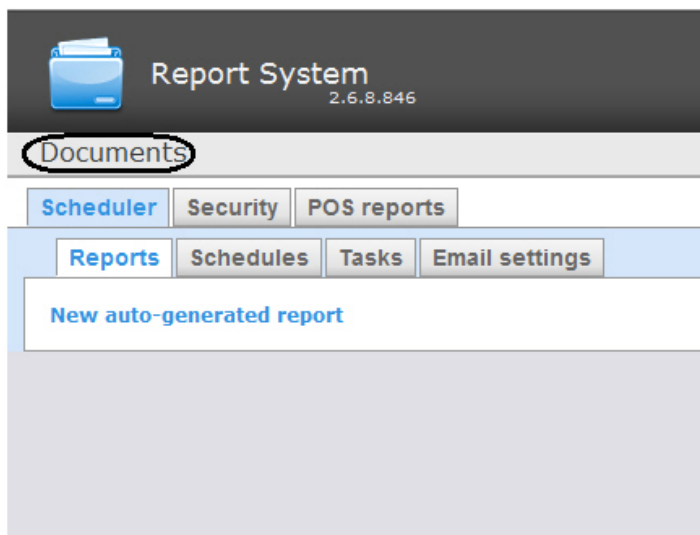
For some users this item can not be displayed (it depends on the availability of the administration rights).



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



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

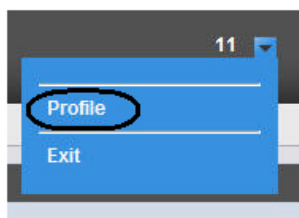


6.4 User profile page

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.



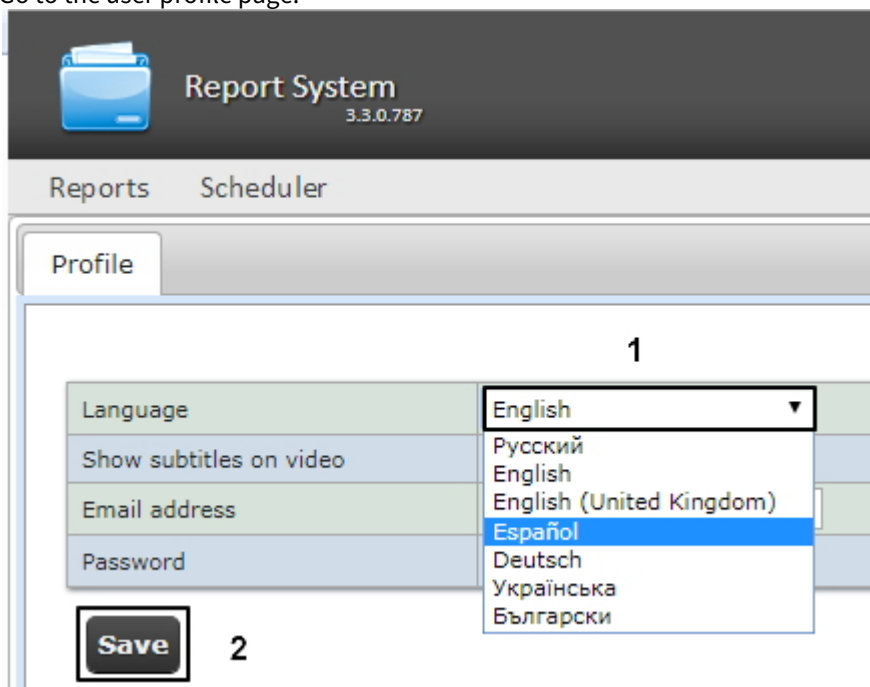
6.5 Change the Intellect Web Report System interface language

Important!

When changing the language of *Intellect Web Report System* interface, the language of interface of the authorized user is changed too. The authorization page (see [Authorization](#)) is displayed in the language selected in the browser by default. The language of the authorization page can also be changed in **Web.config** file located in *<Intellect installation folder>\Modules\Wt2*. For this specify the required value of available languages (en, en-GB, es, de, ru, uk, bg, pl) instead of "auto" value in the `<globalization culture="auto" uiCulture="auto"/>` line.

To change the interface language, do the following:

1. Go to the user profile page.



2. In the **Language** dropdown list select the required interface language (1).
3. Click **Save** (2).

Changing the interface language is completed.

Note

The selected interface language affects regional standards, specifically, in date and time formats which are used for report generation.

The table below lists the date and time formats for all languages available in the subsystem.

Local	Data format	Time format
Русский	dd.mm.yyyy	24-hour
English	mm/dd/yyyy	12-hour
English (United Kingdom)	mm/dd/yyyy	24-hour
Español	dd/mm/yyyy	24-hour
Deutsch	dd.mm.yyyy	24-hour
Українська	dd.mm.yyyy	24-hour
Български	dd.mm.yyyy	24-hour

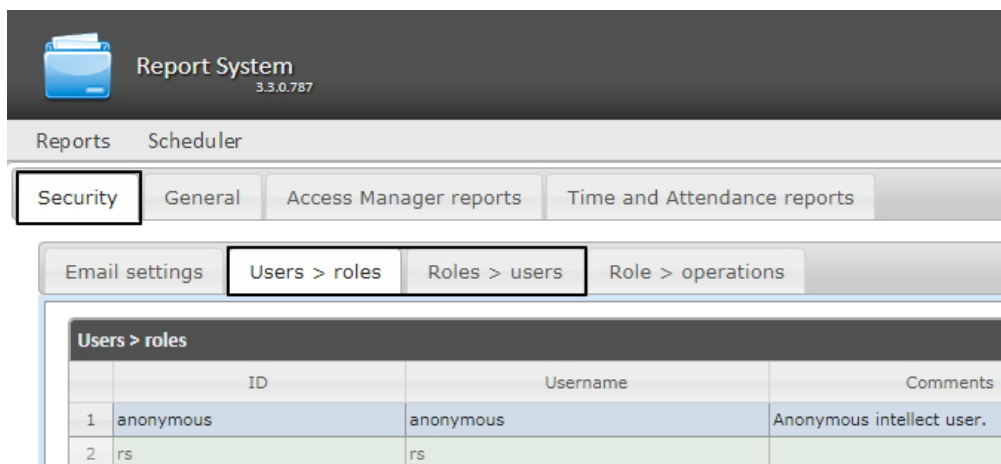
7 Intellect Web Report System administration

7.1 Set up the roles and users

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

7.1.1 Adding new users

The list of users of the *Intellect Web Report System* is available on the **Users > Roles** and **Roles > Users** of the **Security** tab.



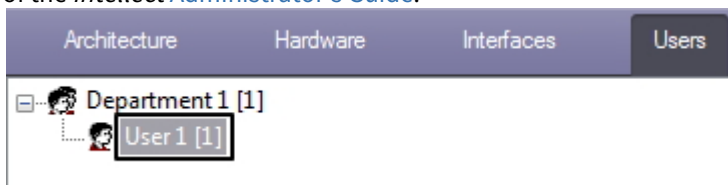
By default the *Intellect Web Report System* contains two users, **rs** and **anonymous**, none of which can be deleted.

The **rs** user in *Intellect Web Report System* performs the administrator functions, while **anonymous** is a dummy operator account.

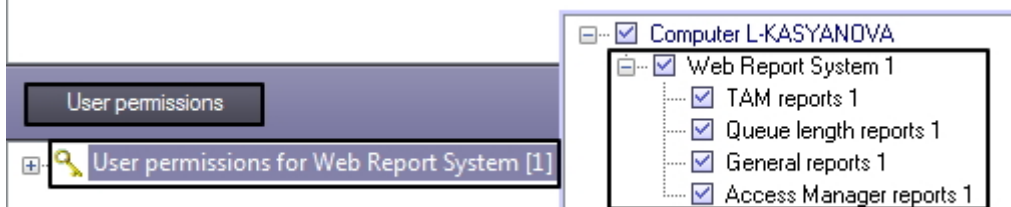
New users can be added to *Intellect Web Report System* by means of *Intellect* system settings only.

Adding a new user to *Intellect Web Report System* is performed in the following way:

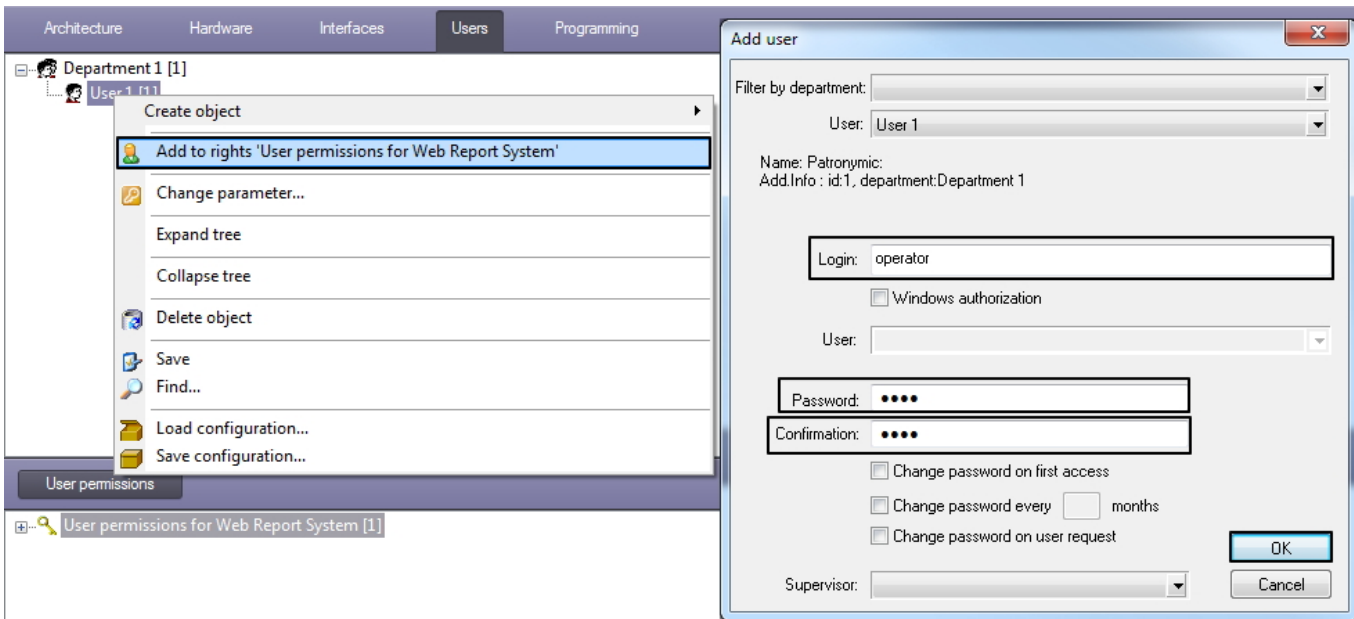
1. Registration of a new user in *Intellect*. This procedure is described in detail in the [User registration and removal](#) section of the *Intellect Administrator's Guide*.



2. Registration of the right to use *Intellect Web Report System*. This procedure is described in detail in the [Registration of users' rights](#) section of the *Intellect Administrator's Guide*.



3. Assigning the right to use *Intellect Web Report System* to the new user. This procedure is described in detail in the [Assigning the rights and password to operators for authorization in the Intellect](#) section of the *Intellect Administrator's Guide*.



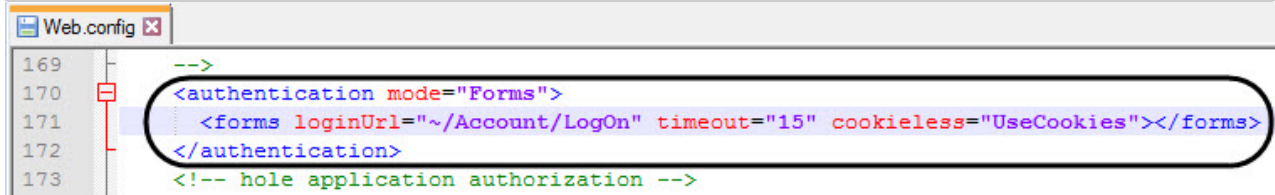
Note

It is recommended to take into account the following specifics while adding a new *Intellect Web Report System* user by means of *Intellect*:

- a. The **anonymous** user is a dummy operator account. Once the first operator will be created with *Intellect*, the dummy will be replaced with the account data of the first added user.
- b. The user login in *Intellect Web Report System* is similar to the login assigned to the user when he is granted the right in *Intellect*.
- c. The username and login are subject to the same rules as the Windows login.

- 4. If the **Windows Authorization** method was selected, then do the following:
 - a. Go to the <Intellect installation directory>\Modules\Wt2 and open the **Web.config** file for editing.
 - b. Replace the following strings:

```
<authentication mode="Forms">
<forms loginUrl="~/Account/LogOn" timeout="15" cookieless="UseCookies"></forms>
</authentication>
```



with the following strings:

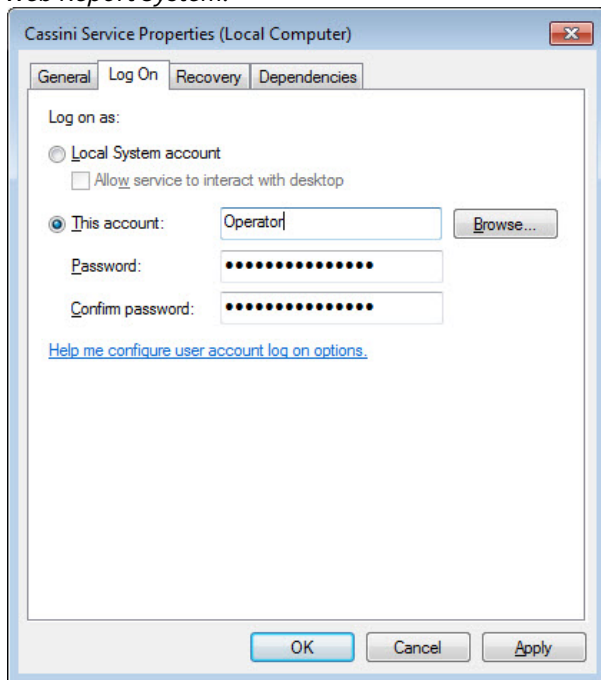
```
<authentication mode="Windows">
</authentication>
```

```

169 <!-->
170 <authentication mode="Windows">
171 </authentication>
172 <!-- hole application authorization -->

```

- c. Save the changes in the **Web.config** file.
- d. Log in to Windows with the user account under which you are planning to work with the *Intellect Web Report System*.
- e. Restart the **Cassini Service** utility with the user account under which you are planning to work with the *Intellect Web Report System*.



Note

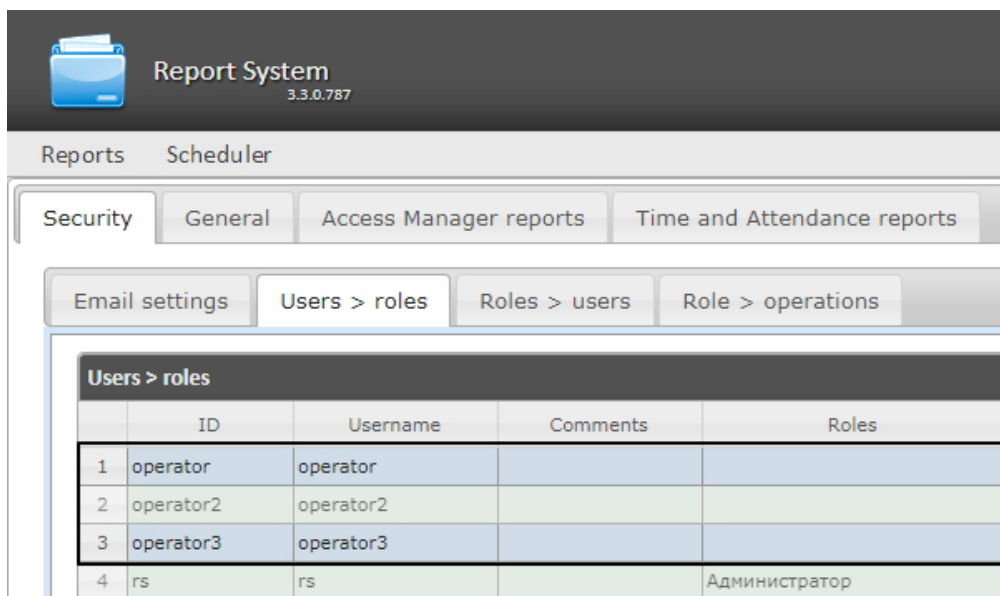
If it is planned to work with the *Intellect Web Report System* by several users, then after each authorization in Windows of another user, it is necessary to restart the **Cassini Service** with the required user account.

- f. As a result, when you open the *Intellect Web Report System* in the browser, you will be automatically logged in under the specified Windows user account.

Note

- If no user is added to the *Intellect* user rights, then by default this user is assigned the **Administrator** role.
- If there is at least one user in *Intellect*, and this user is not the one which was used in Windows authorization, then this user will not have access to the Administration panel.
- If there is a user in *Intellect* who is logged using Windows authorization, but not given access to the *Intellect Web Report System*, then this user will not have access to the Administration panel.

Any required number of users may be added to *Intellect Web Report System* in this manner.



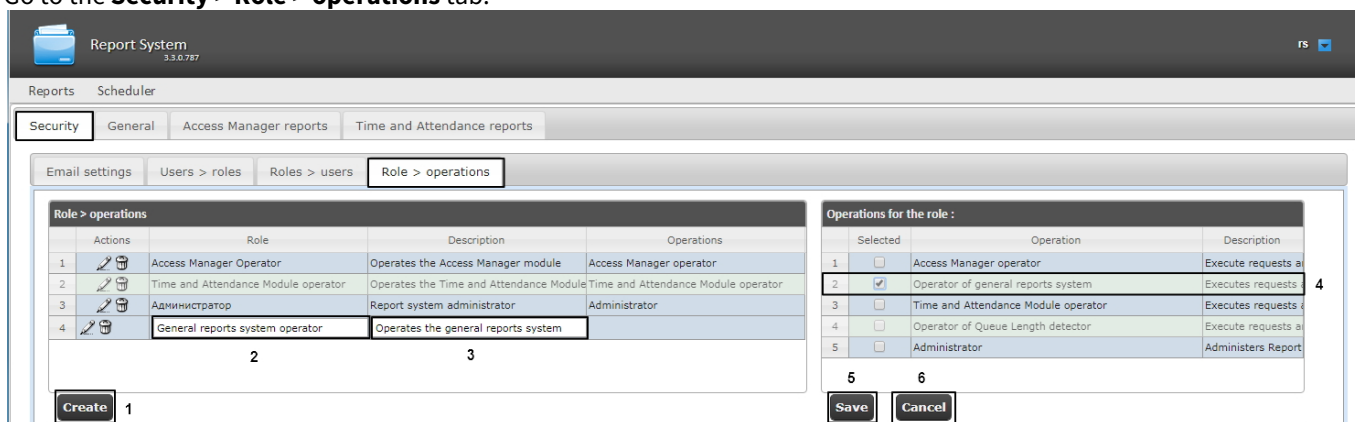
7.1.2 Set up the roles

Setting up the roles is carried out in the **Roles > operations** nested tab of the **Security** tab.

7.1.2.1 Role registration

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

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



2. Click **Create** (1).
3. As a result a new line will be added to the **Role > operations** table. Fill in its fields:
 - a. 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.

- b. In the **Role** field type the name of a new role (2).
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.

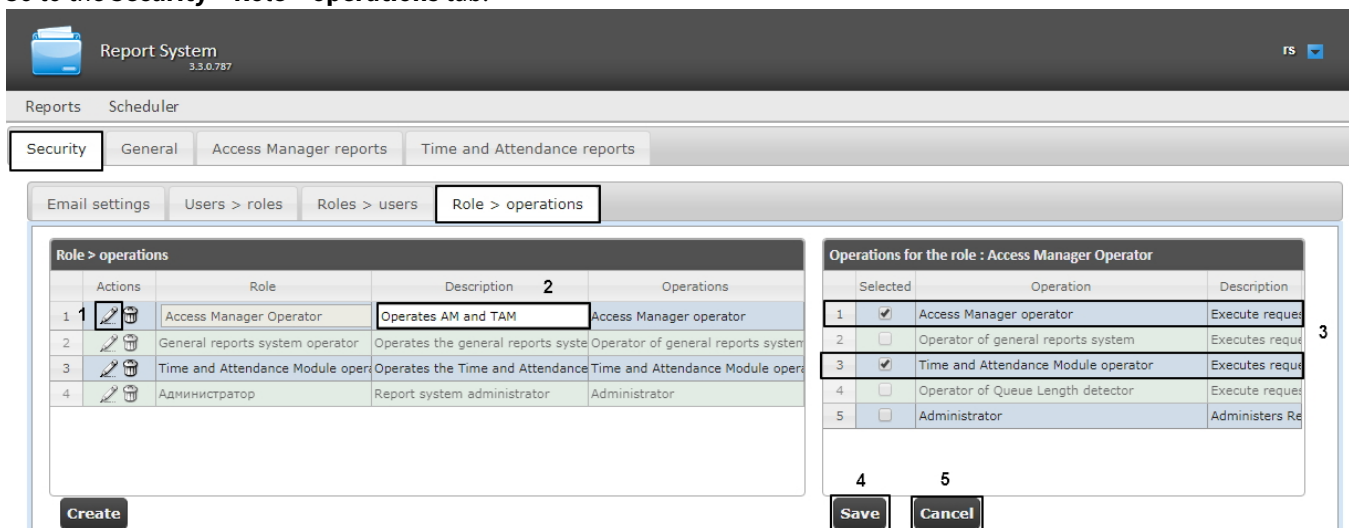
In order to cancel the registration of a new role click **Cancel** (6).

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

7.1.2.2 Role editing

In order to edit a role do the following:

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



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

Note.

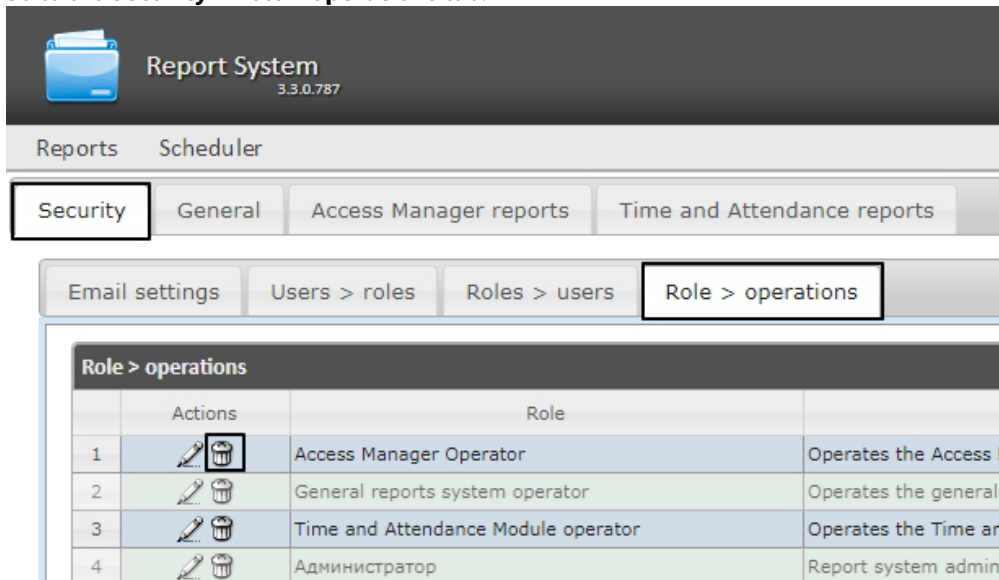
In order to cancel the changes in the role click **Cancel** (5).

Role editing is completed.

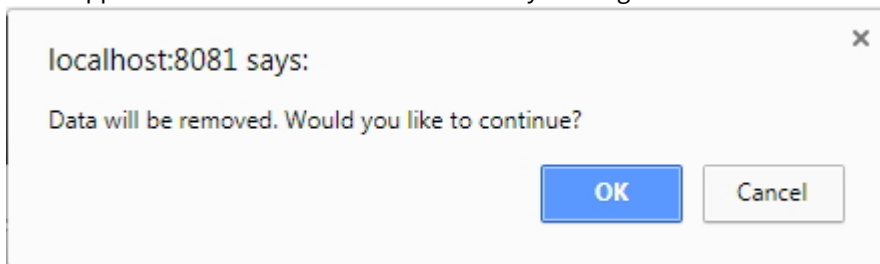
7.1.2.3 Role removal

In order to remove the role, do the following:

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



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



Role removal is completed.

7.1.3 Configure roles and users compliance

Roles and users compliance is configured on the **Security** tab of the administration page. It can be carried out in two ways:

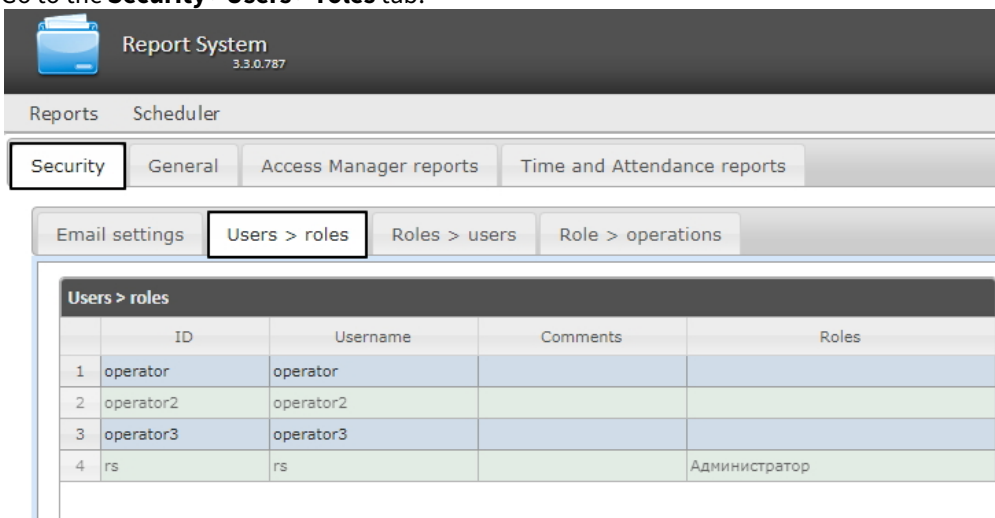
1. If the roles are assigned to a user, then the **Users > roles** tab is used.
2. If the users are added to a role, then the **Roles > Users** tab is used.

The choice of method is due to the convenience of administration.

7.1.3.1 Assigning the roles to the user

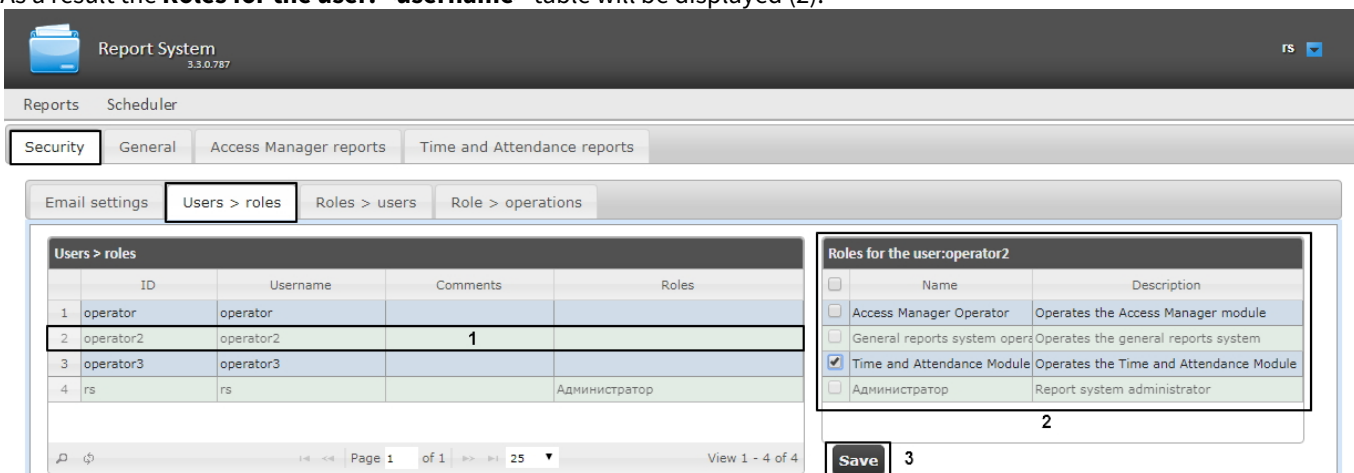
In order to assign the roles to the user do the following:

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



2. Left-click the required user (1).

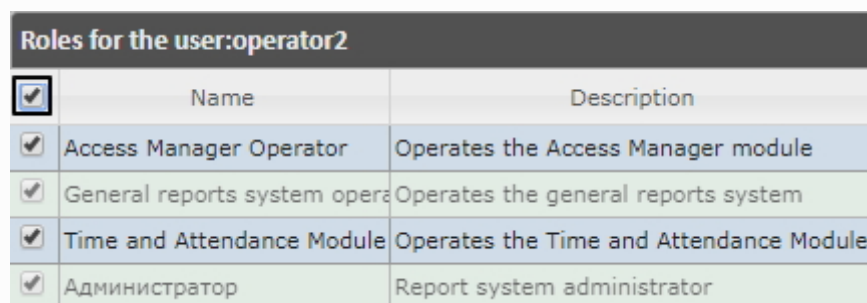
3. As a result the **Roles for the user: <username>** table will be displayed (2).



4. Check or uncheck the required roles in the list to assign them to the selected user.

Note.

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



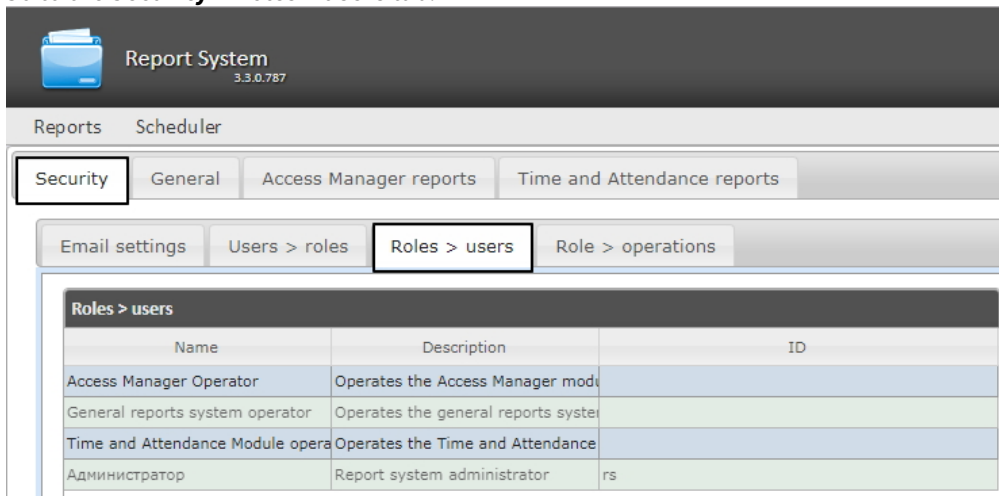
5. Click **Save** to save the changes (3).

Assigning the roles to the user is completed.

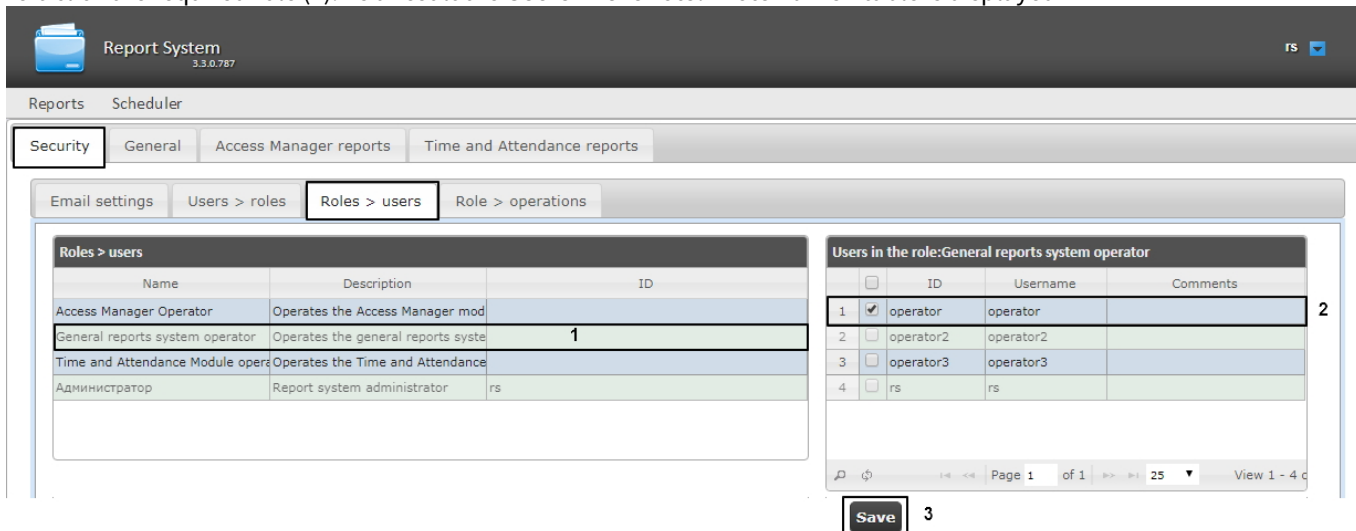
7.1.3.2 Adding the users to the role

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

1. Go to the **Security > Roles > users** tab.



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



3. Change the list of users added to the role by setting or deselecting the corresponding checkboxes (2).

Note.

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

Users in the role: General reports system operator				
	<input checked="" type="checkbox"/>	ID	Username	Comments
1	<input checked="" type="checkbox"/>	operator	operator	
2	<input checked="" type="checkbox"/>	operator2	operator2	
3	<input checked="" type="checkbox"/>	operator3	operator3	
4	<input checked="" type="checkbox"/>	rs	rs	

4. Click **Save** (3).

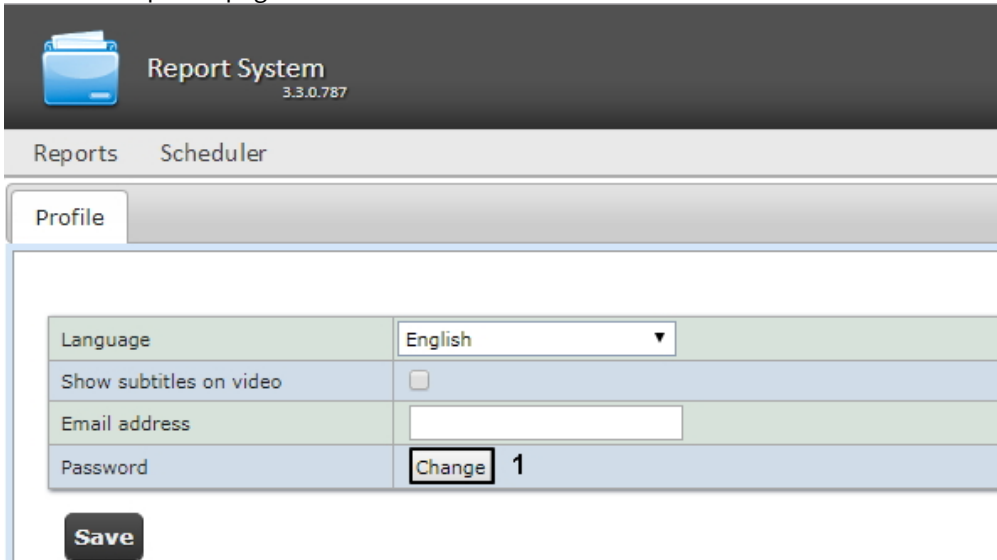
Adding the users to the role is completed.

7.1.4 Change the administrator password

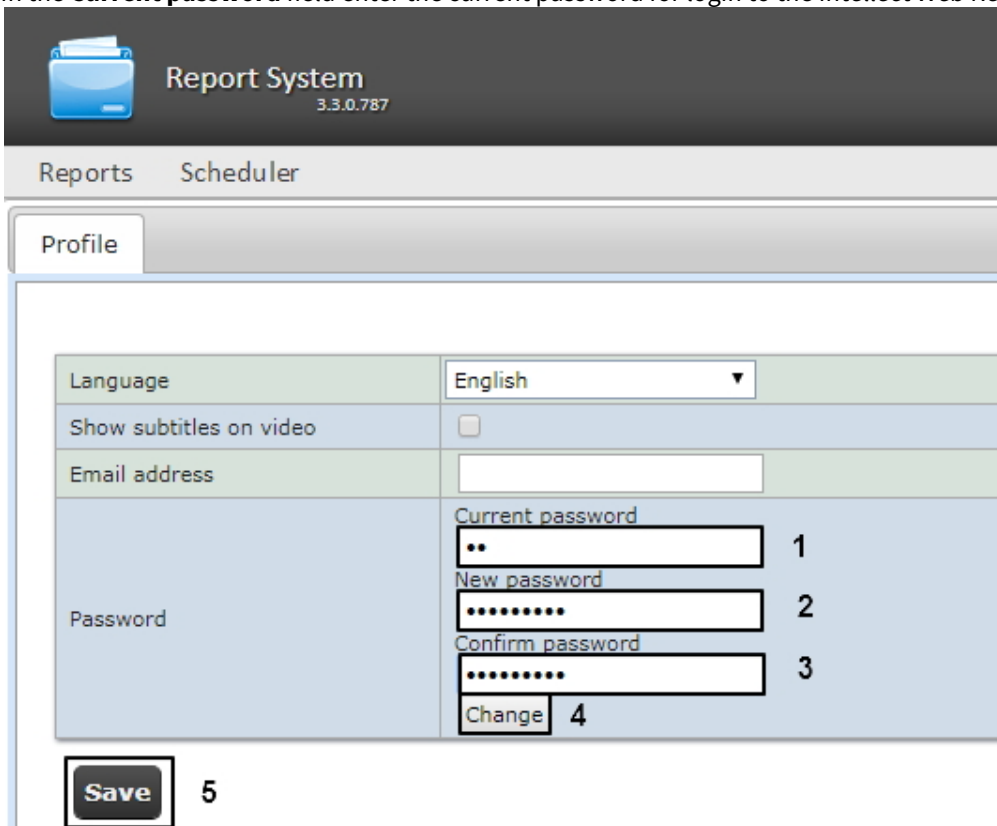
The password can be changed in the **Profile** page only for the **rs** user, which is the overall administrator of the subsystem. Password changing for other users is performed only on the **Users** tab of the *Intellect* software.

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

1. Go to **rs** 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* (1).



4. In the **New password** field enter the new password for login to the *Intellect Web Report System* (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 is completed.

7.1.5 Setting up the user email

To set up the user email address in the *Intellect Web Report System*, do the following:

1. Switch to the user profile page.
2. Enter the email address of the current user in the **Email address** field (1).
3. Click **Save** to save the changes (2).

Report System 3.3.0.707	
Reports Scheduler	
Profile POS reports	
Language	English
Show titles on video	<input type="checkbox"/>
Email address	I.kasyanova@itv.ru
Password	Change
Save	

User email setup is complete.

7.2 Setting up Intellect Web Report System operation in the automatic mode

7.2.1 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. On the **Security > 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. On the **Reports** tab create the list of auto-generated reports.
3. On the **Schedules** tab setup the schedule of *Intellect Web Report System* operation in the automatic mode.
4. On the **Tasks** tab create the tasks for auto-generating the reports. Start their execution.

7.2.2 SMTP Server setup

Setting up the SMTP server for sending the autogenerated reports via email is performed in the **Administration > Security** section.

In order to set up the SMTP server, do the following:

1. Go to the **Administration > Security > 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 (4). In the Password box that opens, enter the account password.

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

Note

You can also set up the SMTP server directly using the **web.config** configuration file which is located in the <Intellect installation directory>\Modules\Wt2\App_Data\Mail\ directory (see [XML-file parameters reference guide](#)).

SMTP Server setup for autogenerated reports sending via email is completed.

7.2.3 Auto-generated reports setup

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

Note.

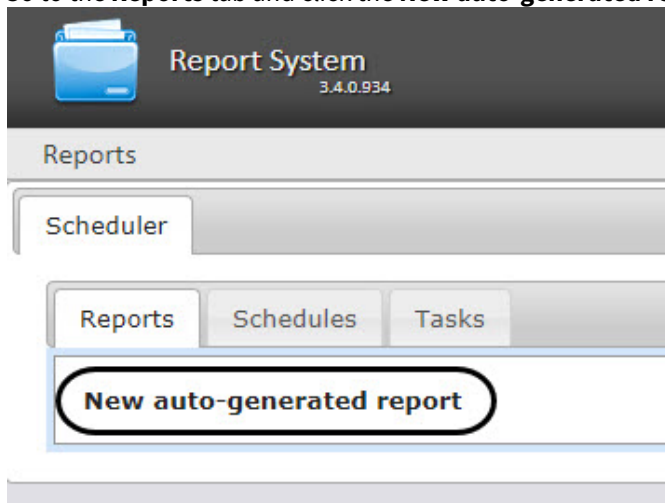
Schedule setup is given in details in [Setting up the schedule of operation in the automatic mode](#). The connection between the report and the schedule element is setup at the final stage when the task is created (see the [Setting up the automatically executed tasks](#) chapter).

Auto-generated scheduled reports may be created by the administrator of the system (the **rs** user), as well as by ordinary users, given that they have the roles with the required operations.

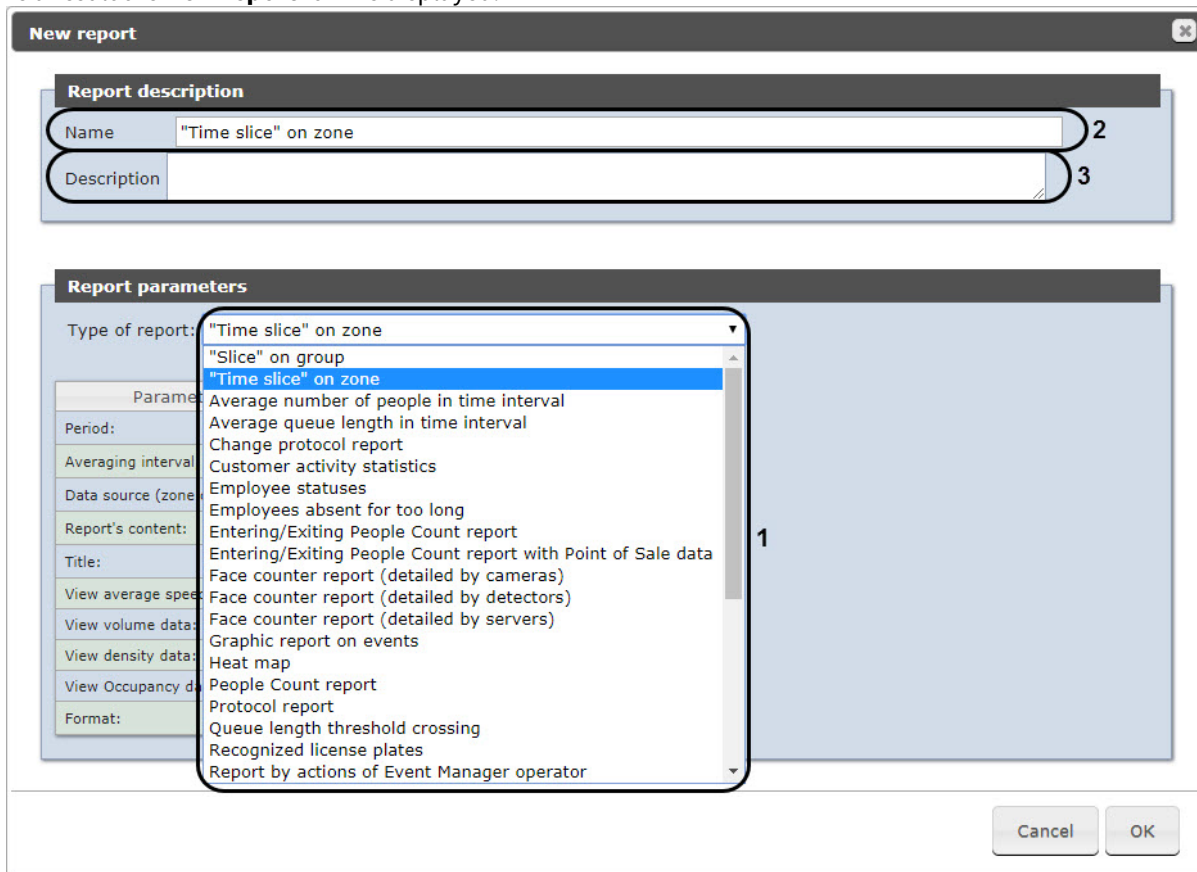
7.2.3.1 Creating the report

Make an auto-generated report as follows:

1. Go to the **Reports** tab and click the **New auto-generated report** link.



2. As a result the **New report** form is displayed.



3. In the **Report parameters** group select the required type of report from the **Type of report** list (1).
4. In the **Name** field (2) of the **Report description** group the prior report name is displayed automatically. It can be edited if necessary.
5. In the **Description** field (3) of the **Report description** group specify the description of the report contents.

Note

This field is optional.

6. Set the report parameters in the **Report parameters** group.

Report parameters

Type of report: "Time slice" on zone ▼

Parameter	Value
Period:	Previous day ▼
Averaging interval, min:	60
Data source (zone or detector):	▼
Report's content:	Chart+Table ▼
Title:	"Time slice" on zone
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"/>
Format:	Pdf ▼

Note

The list of parameters is individual for every type of report and the same as the list of parameters of the corresponding report when working with reports (see [Working with Intellect Web Report System](#)) with one exception: the **Format** parameter is available - in its dropdown list it is possible to select the required format of saving the report.

New report
✕

Report description

Name

Description

Report parameters

Type of report:

Parameter	Value
Period:	<input type="text" value="Previous day"/>
Averaging interval, min:	<input type="text" value="60"/>
Data source (zone or detector):	<input type="text"/>
Report's content:	<input type="text" value="Chart+Table"/>
Title:	<input on="" type="text" value="Time slice" zone"=""/>
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"/>
Format:	<input type="text" value="Pdf"/> <ul style="list-style-type: none"> <li style="background-color: #add8e6; padding: 2px;">Pdf Csv Excel 97-2003

5
4

Note

The contents of the **Format** dropdown list depends on the type of the selected report (see item 3). The following formats are supported:

- PDF:
- Csv:
- Excel 97-2003:
- Excel 2007.

7. In order to save the description and new report parameters click **OK (4)**.

Note

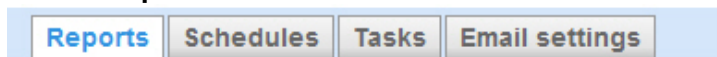
In order to cancel making the report click **Cancel (5)**.

Making the auto-generated report is completed.

7.2.3.2 Editing the report

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

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



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 [Creating the report](#) section).

Edit report
✕

Report description

Name

Description

Report parameters

Type of report:

Parameter	Value
Area:	<input type="text" value="Region 1"/>
Period:	<input type="text" value="Selected date and time"/> <input type="text" value="8/17/2011"/> <input type="text" value="10:44 AM"/>

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

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

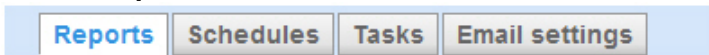
In order to change the language of the auto-generated report select the corresponding language in the profile page of the *rs* user (see [User profile page](#) section).

Editing the auto-generated report is completed.





7.2.3.3 Deleting the report


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

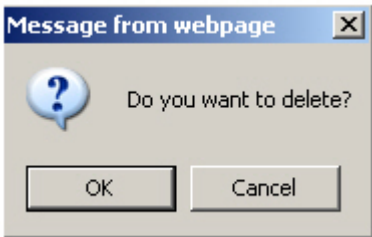
1. Go to the **Reports** tab.



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.

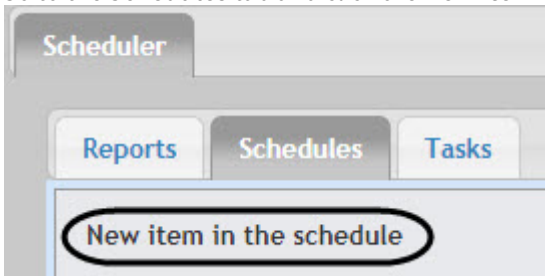
7.2.4 Setting up the schedule of operation in the automatic mode

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).

7.2.4.1 Creating the schedule item


In order to create the schedule item do the following:

1. Go to the **Schedules** tab and click the **New item in the schedule** link.



As a result the **New item in the schedule** form is displayed.

Note

- The selection of required reports will be performed when the tasks are created (see [Setting up the automatically executed tasks](#) section).
- In order to set current time it is convenient to use  button (2).

2. In the **Time** group (1) enter the instant approaching which the required reports will be generated automatically.
3. If reports should be generated regularly with a certain repetition period, set the **Repeat** checkbox (3) and select the required repetition period (4).
4. As a result, a form for tweaking the repetition period will be displayed (5). The parameters of this form depend on the selected period and are set intuitively.
5. In order to save the schedule item click **OK** (6).

Note.

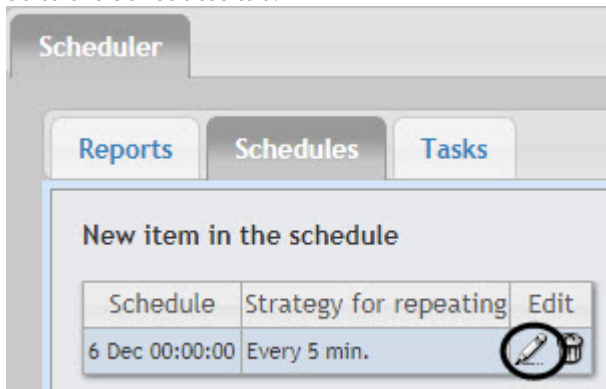
In order to cancel creating of the schedule item click **Cancel** (7).

Creating the schedule item is completed.

7.2.4.2 Editing the schedule item

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

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



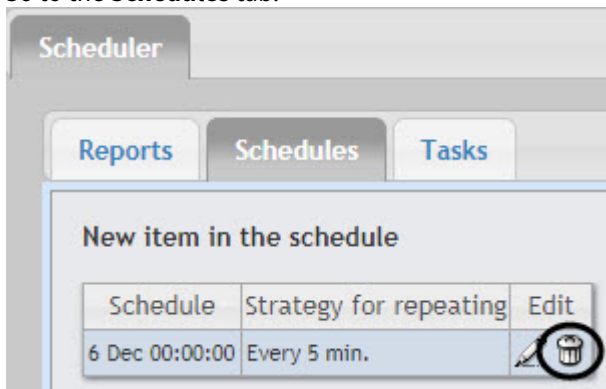
2. Click for the required schedule item in the **Edit** column.
3. As a result the **Edit the schedule item** form is displayed. Editing a schedule item is similar to creating a schedule item (see [Creating the schedule item](#)).

Editing the schedule item is completed.

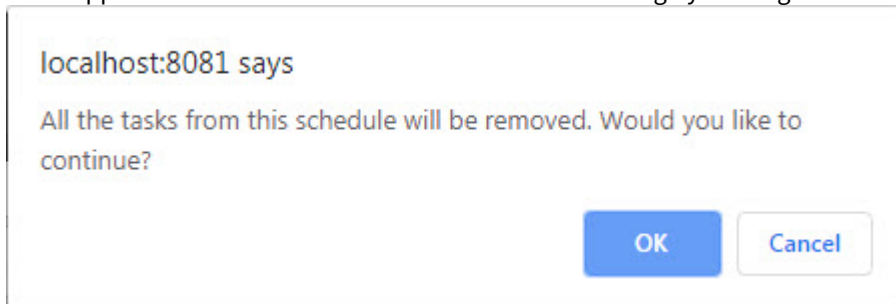
7.2.4.3 Deleting the schedule item

In order to delete the schedule item do the following:

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



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.

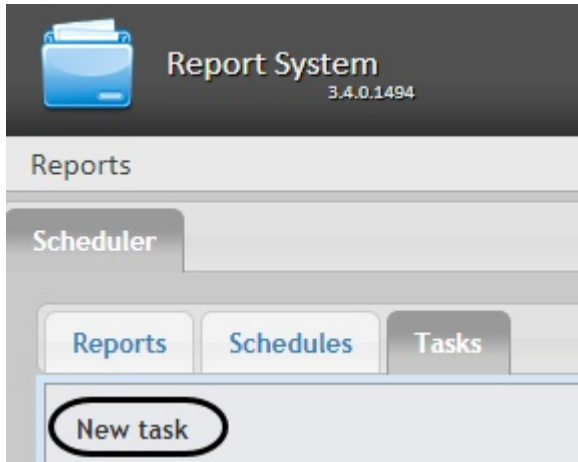
7.2.5 Setting up the automatically executed tasks

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

7.2.5.1 Creating the task

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

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



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:
 - a. 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.

Attention!

If a network folder is selected, then it is necessary to launch the CassiniService utility on behalf of a user who has access to this network folder, because by default, this utility is launched on behalf of a system user who does not have access to network folders.

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

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

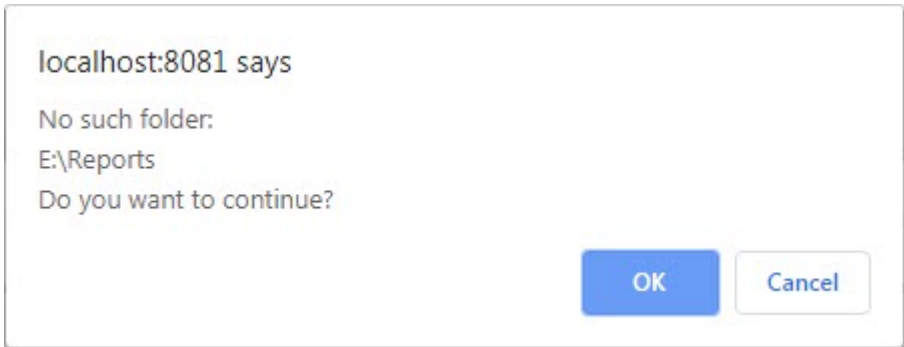
- 7. In order to run the task execution right after its creation set the **Activate** checkbox (5).

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.a 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.

7.2.5.2 Checking the task execution

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

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



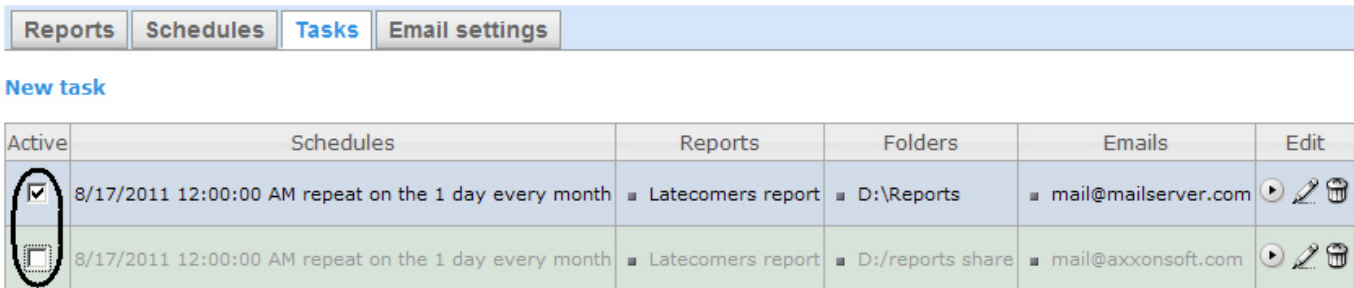
2. For the required task click in the **Edit** column.
3. Reports specified in the task will be generated and saved in the folders and/or sent to the e-mail addresses. If it is not happening one should check whether the actions with reports are set up correctly (see [Creating the task](#) section).

Checking the task execution is completed.

7.2.5.3 Running and stopping the task execution

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

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



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.

7.2.5.4 Editing the task

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

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



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**.

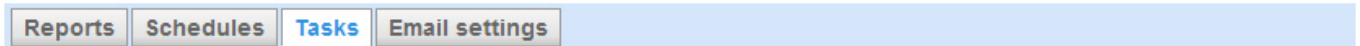
Note.
In order to cancel the changes in the task click **Cancel**.

Editing the auto-executed task is completed.

7.2.5.5 Deleting the task


In order to delete the task do the following:

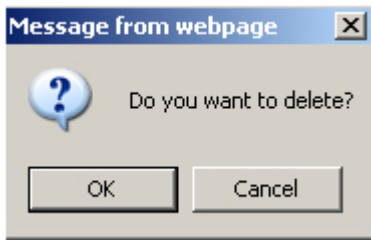
1. Go to the **Tasks** tab.



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**.



Deleting the task is completed.

7.3 Setting up the POS reports

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



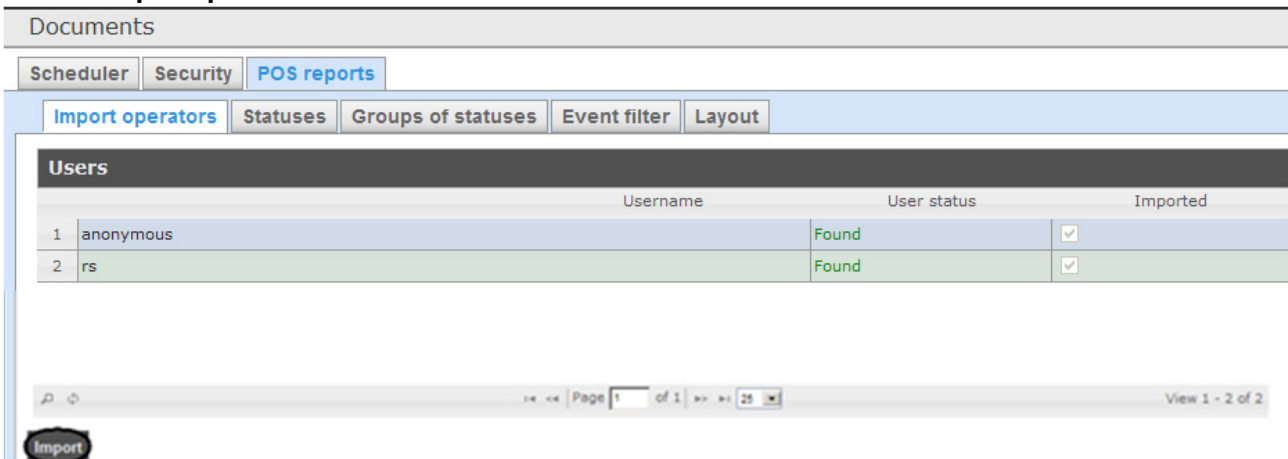
7.3.1 Creating the list of POS operators

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

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

In order to import users do the following:

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



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.

7.3.2 Setting up the cashiers in the POS reports

Содержание страницы

- [Setting up the cashiers list](#)
- [Setting up the new cashiers](#)

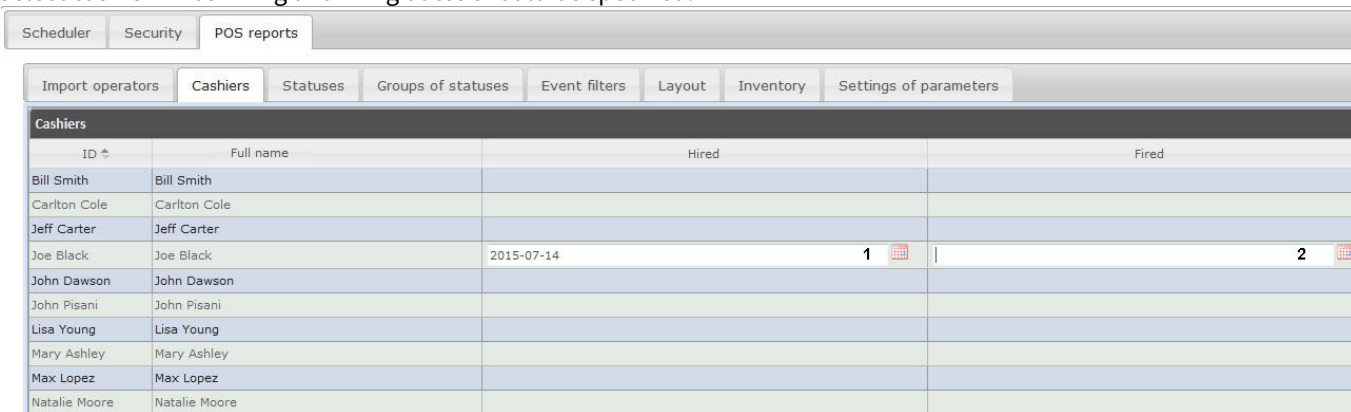
7.3.2.1 Setting up the cashiers list

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

To display only the working cashiers in the settings panel of the cashiers report or the potential violations report, it is possible to specify the cashiers' hiring and firing dates. In this case, the fired cashiers will not be available for selection when building the report.

To do this:

1. Go to the **Cashiers** tab.
2. Select cashier whos hiring and firing dates should be specified.



3. Specify the hiring using the **Calendar** tool in the area (1).
4. Specify the firing date using the **Calendar** tool in the area (2).

7.3.2.2 Setting up the new cashiers

In **POS** reports, you can highlight the new cashiers who work less than a specified number of days. To do this:

1. Go to the <Intellect installation directory>\Modules\Wt2.
2. Open the **Web.config** file for editing.
3. Set the **true** value for the **ShowIconNewCashier** key to highlight the new cashier's name with the asterisk and the different color.

Note

The default key value is **true**. If you set the **false** value, the new cashiers will not be highlighted in the **POS** reports.

4. For the **CountDaysNewCashier** key, set the number of days within which the cashier is considered a new one (30 days by default).

```

100 <add key="QueueLengthDelta" value="0.5" />
101 <add key="ShowIconNewCashier" value="true" />
102 <add key="CountDaysNewCashier" value="30" />

```

5. Save the changes in the **Web.config** file.

Attention!

The **Web.config** file configuration must be performed on the computer where it is planned to work with the **POS** reports.

Note

For the new cashiers, the date of hiring should be specified.

As a result, when generating **POS** reports, the new cashiers' names will be highlighted with the asterisk and the different color. See the example below:

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

Status group: Events:

Number	Name	Total	★ Seregina MM.	Smirnova From.	Umahanova Z. M.
1	Logout Users	6	2	2	2
2	Starting document	132	119		13
3	End of document	130	117		13
4	Adding product to the document	603	544		59
5	Removing Item from the document	1	1		
6	Change in the price of goods in the document	17	14		3
7	Appointment prices (margins) of the product	140	121		19
8	Sub total	168	168		
9	Calculation	130	117		13
10	Result	130	117		13
11	Payment	130	117		13
12	Printing a document	130	117		13
13	User Authorization	1		1	

7.3.3 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.

7.3.3.1 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.

7.3.3.2 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
  	<input checked="" type="checkbox"/>	Event not processed (by default)		#858585	#000000
  	<input checked="" type="checkbox"/>	Non-violation		#2D9518	#000000
  	<input checked="" type="checkbox"/>	Possibly violation		#DAE042	#000000
  	<input checked="" type="checkbox"/>	Minor violation detected		#E9962B	#000000
  	<input checked="" type="checkbox"/>	Moderate violation detected		#F34320	#000000
  	<input checked="" type="checkbox"/>	Serious violation detected		#8B1E0E	#000000
  	<input type="checkbox"/>	New status		#c21fc2	#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.

7.3.4 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.

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

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.

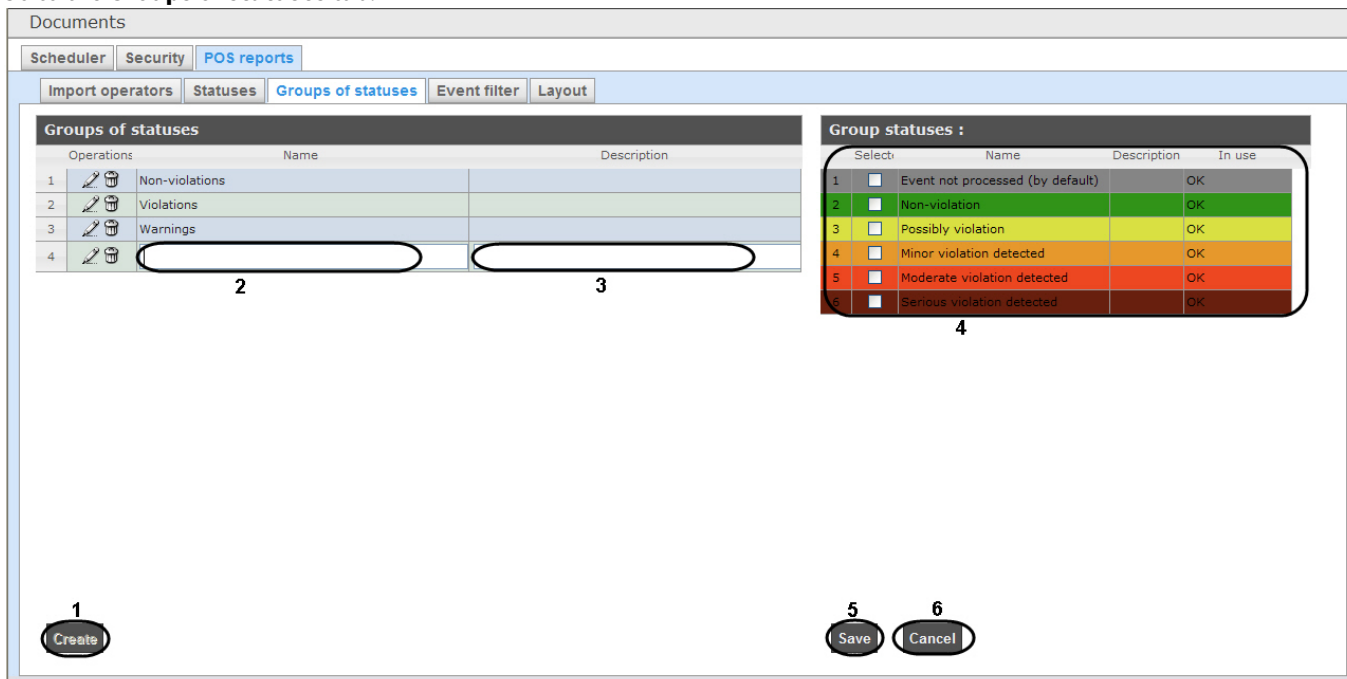
Group of statuses	Statuses
Non-violations	Non-violation
Violations	Minor violation detected
	Moderate violation detected
	Serious violation detected
Warnings	Event not processed
	Possibly violation

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

7.3.4.1 Creating a group of statuses

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

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



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.

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

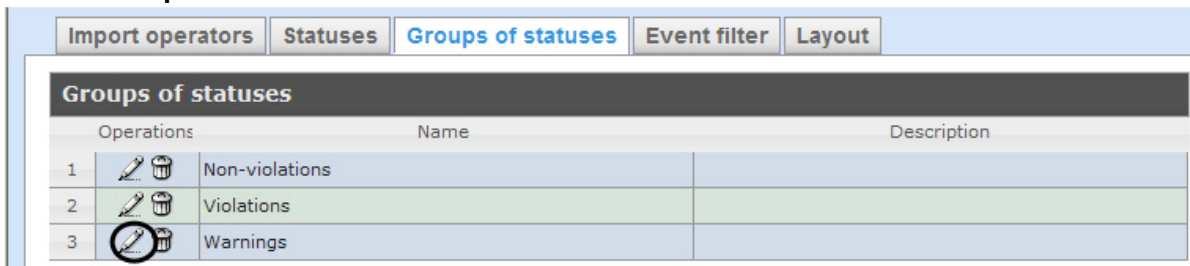
Note.
In order to cancel the creating a new group of statuses click **Cancel** (6).

Creating a new group of statuses is completed.

7.3.4.2 Editing a group of statuses

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

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



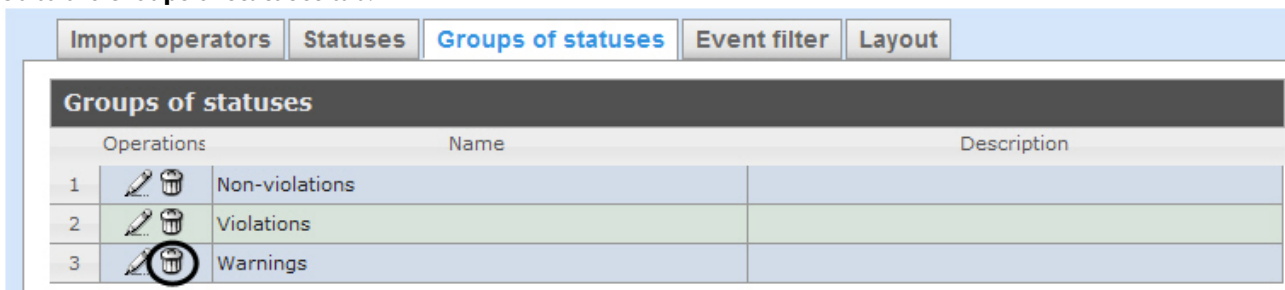
2. For the required group of statuses click in the **Operations** column.
3. As a result it will be possible to edit all parameters of a group of statuses. One can edit the group of statuses by analogy with its creation (see [Creating a group of statuses](#) section).

Editing a group of statuses is completed.

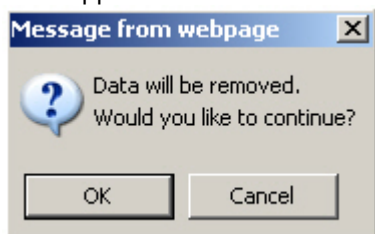
7.3.4.3 Deleting a group of statuses

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

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



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

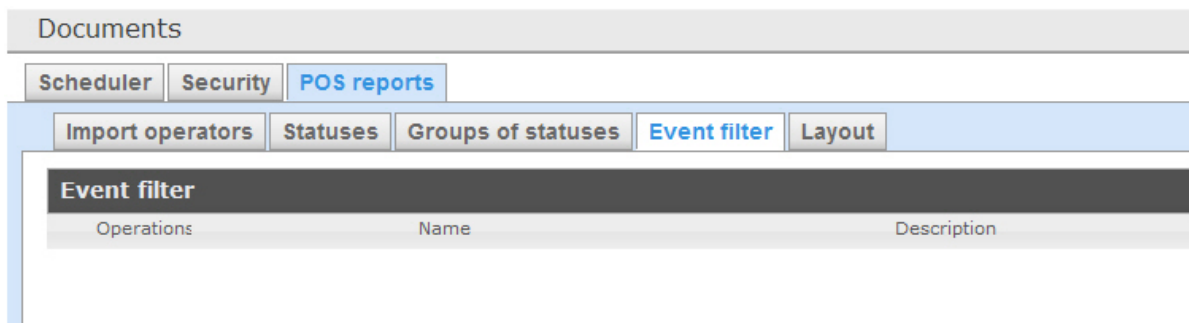


Deleting a group of statuses is completed.

7.3.5 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.



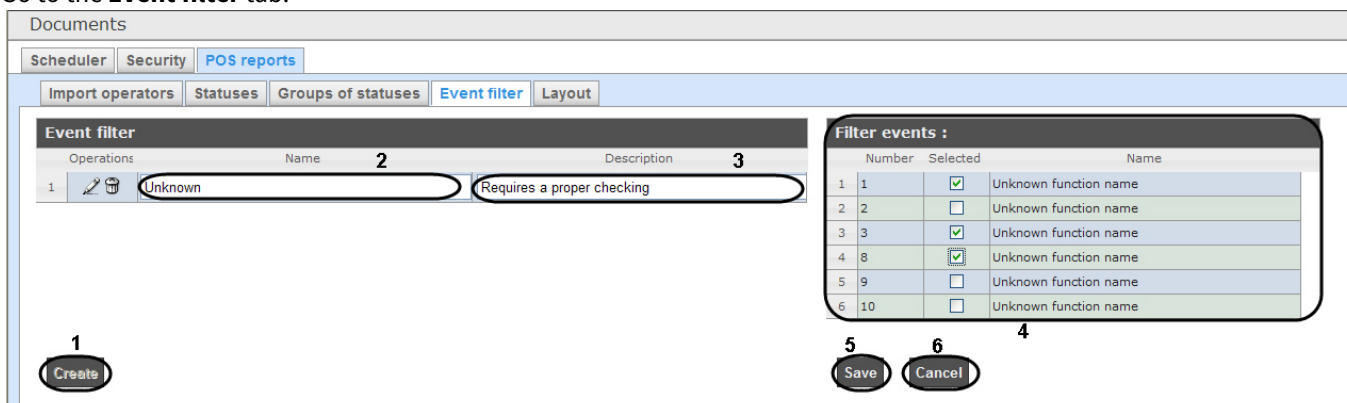
By default none filters are created in *Intellect Web Report System*.

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

7.3.5.1 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.

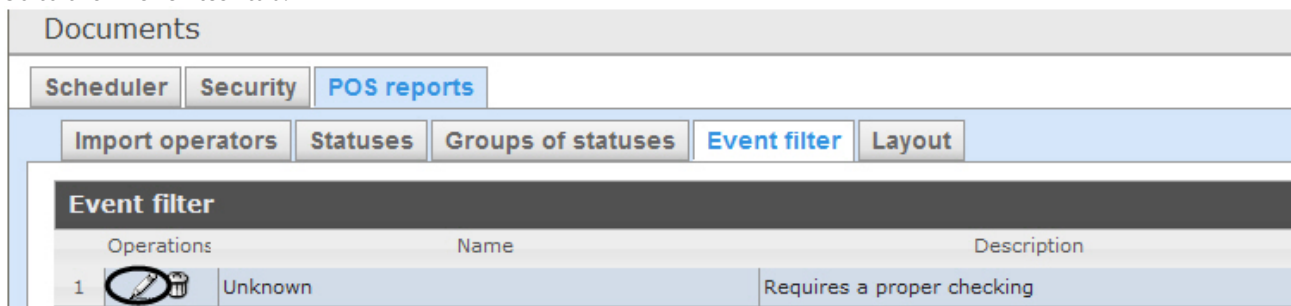
In order to cancel the creating a new filter of events click **Cancel (6)**.


Creating a new filter of events is completed.

7.3.5.2 Editing a filter of events

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

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



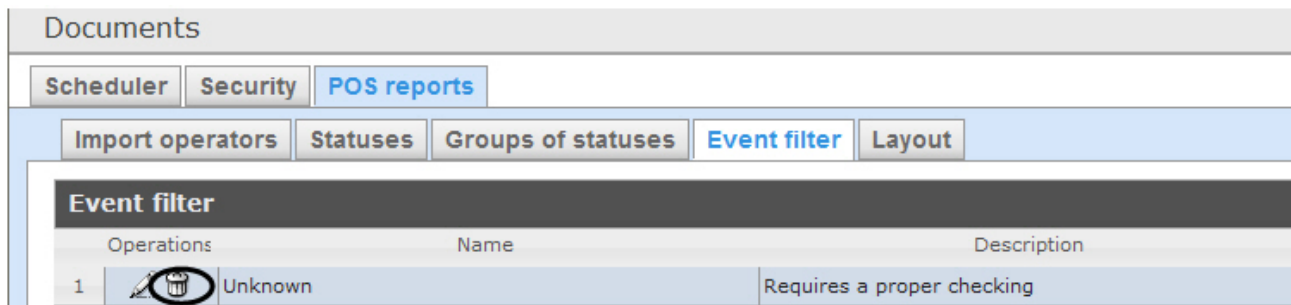
2. For the required filter of events click  in the **Operations** column.
3. As a result it will be possible to edit all parameters of a filter of events. One can edit the filter of events by analogy with its creation (see [Creating a filter of events](#) section).


Editing a filter of events is completed.

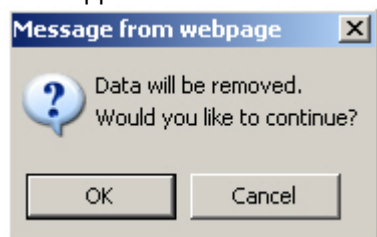
7.3.5.3 Deleting a filter of events

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**.

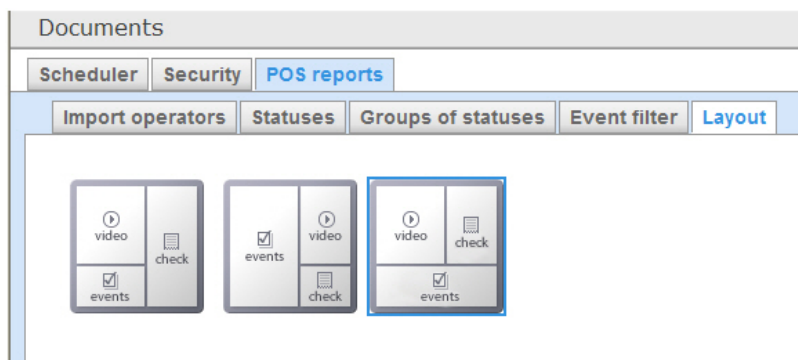


Deleting a filter of events is completed.

7.3.6 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.

7.3.7 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.

7.3.8 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 General **POS reports**

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

Report by potential violations

Analyse entire DB again

Cancellation of all the goods in the check followed by the addition of positions on the same receipt	 Analyse again						
Unauthorized reduction in the price of the goods	 Analyse again						
Unauthorized increase in the price of the goods	 Analyse again						
Intended ignoring some goods	 Analyse again						
Intended change of how the goods look	 Analyse again						
Erroneous double scanning	 Analyse again						
<table border="1"> <thead> <tr> <th>Parameter</th> <th>Value</th> <th></th> </tr> </thead> <tbody> <tr> <td>Timeout</td> <td>180</td> <td></td> </tr> </tbody> </table>	Parameter	Value		Timeout	180		 Analyse again
Parameter	Value						
Timeout	180						
DISABLED: Unintended change of how the goods look ("Enter product code" number needed)	 Analyse again						
Ignoring some goods while scanning	 Analyse again						
<table border="1"> <thead> <tr> <th>Parameter</th> <th>Value</th> <th></th> </tr> </thead> <tbody> <tr> <td>Timeout</td> <td>90</td> <td></td> </tr> </tbody> </table>	Parameter	Value		Timeout	90		 Analyse again
Parameter	Value						
Timeout	90						
Errors while canceling the quantity of goods	 Analyse again						
Cash register reset by the cashier	 Analyse again						
Not giving the receipt to the customer	 Analyse again						
<table border="1"> <thead> <tr> <th>Parameter</th> <th>Value</th> <th></th> </tr> </thead> <tbody> <tr> <td>Timeout</td> <td>90</td> <td></td> </tr> </tbody> </table>	Parameter	Value		Timeout	90		 Analyse again
Parameter	Value						
Timeout	90						
Recounting contents of the cash register	 Analyse again						
<table border="1"> <thead> <tr> <th>Parameter</th> <th>Value</th> <th></th> </tr> </thead> <tbody> <tr> <td>Timeout</td> <td>180</td> <td></td> </tr> </tbody> </table>	Parameter	Value		Timeout	180		 Analyse again
Parameter	Value						
Timeout	180						
Intended reduction in the number of the goods	 Analyse again						
Cancellation of the receipt when the administrator is absent	 Analyse again						
Intended ignoring some goods using the "Product info" button	 Analyse again						

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

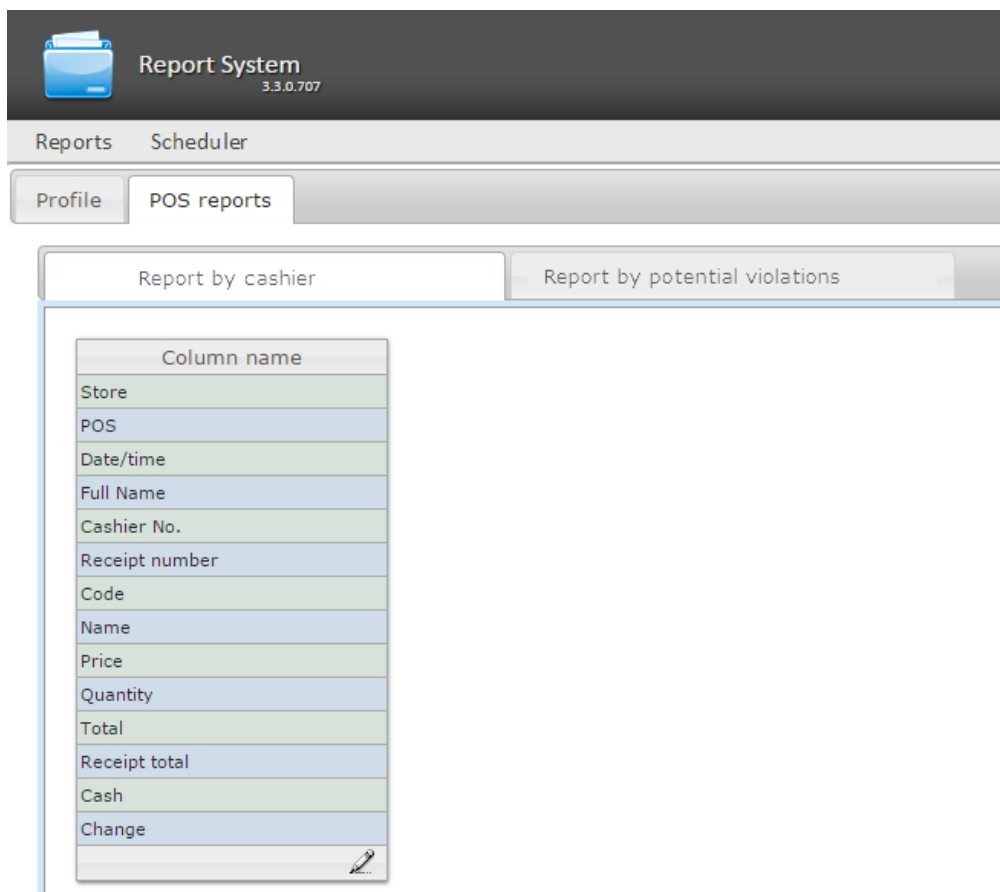
Note.

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.




7.3.9 Setting up the user interface of POS reports

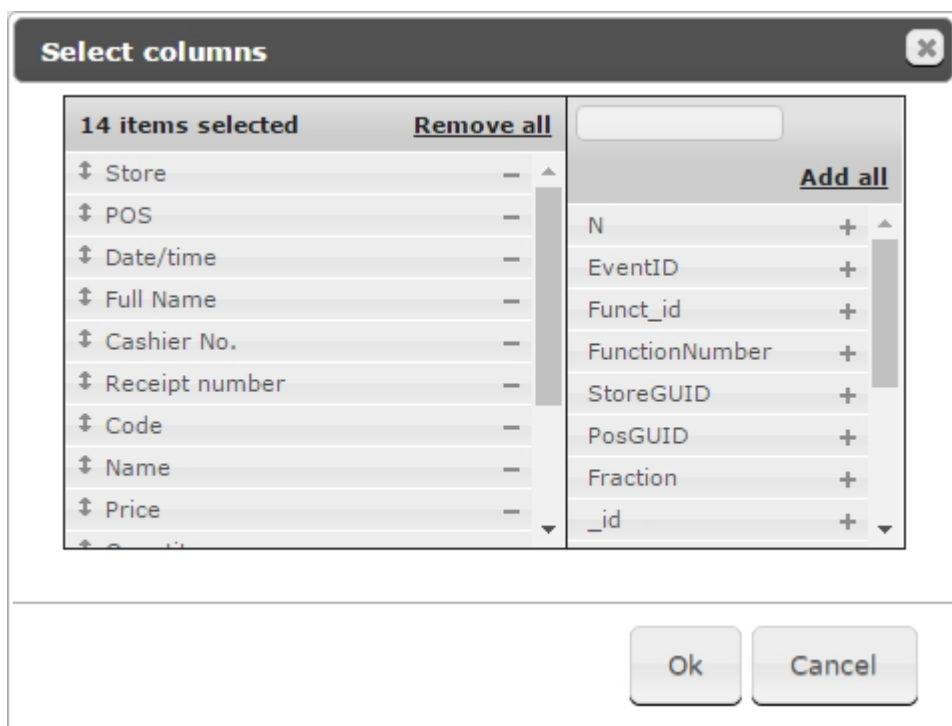
A unique interface of POS reports can be configured for every user.

User interface setup is performed on the **Profile > POS reports** tab.



To edit the list of columns in the report, do the following:

1. Click the  icon at the bottom of the list.
2. In the window that appears, add the required columns by clicking  and remove the unnecessary ones by clicking . It is possible to add/remove all the columns.
3. Click **OK** to save the changes.



The list of columns can be edited in a similar way by clicking the **Edit columns** button right on the report page.

7.3.10 Setting up the Sweetheating report

7.3.10.1 Enabling the Sweetheating report

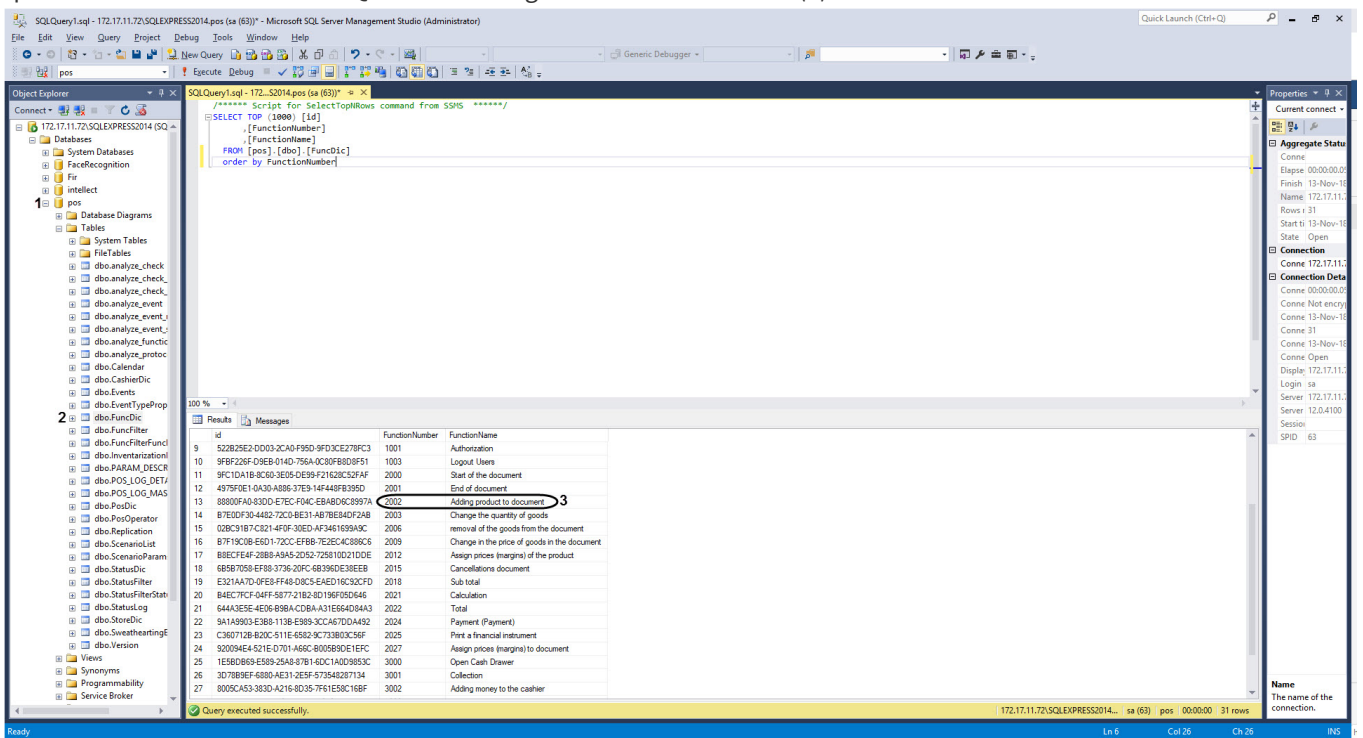
Important!

The **Web.config** file configuration must be performed on the computer where it is planned to work with the **Sweetheating** report.

After making any changes in the **Web.config** file, it is necessary to restart the **Cassini Service** utility.

By default, the **Sweetheating** report is disabled. To enable it, do the following:

1. Open the **POS** database in the SQL Server Management Studio software (1).

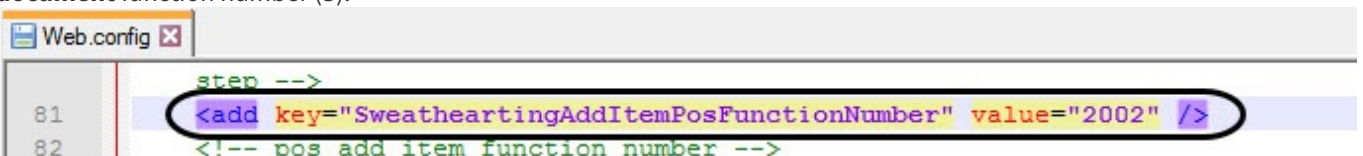


2. Open the **dbo.FuncDic** table (2).
3. Copy to the clipboard or memorize the **Adding product to document** function number (3).

Note

The **Adding product to document** function name can differ depending on the localization.

4. Go to the `<Intellect installation directory>\Modules\Wt2`.
5. Open the **Web.config** file for editing.
6. For the **SweetheatingAddItemPosFunctionNumber** key specify the value corresponding to the **Adding product to document** function number (3).



Important!

If the **Adding product to document** function number is specified incorrectly, the **Swehearting** report will not be enabled, because only the receipts with the item adding event number specified in the **SweheartingAddItemPosFunctionNumber** key are added to the report.

- To enable the **Swehearting** report, specify the **1** value for the **SweheartingEnabled** key. The default key value is **0** (the report is disabled).

```

73 <!-- Swehearting -->
74 <add key="SweheartingEnabled" value="1" />
75 <add key="SweheartingLogEnabled" value="1" />
76 <add key="SweheartingBeepEnabled" value="1" />
77 <add key="SweheartingAddTimeoutMs" value="500" />

```

- Save the changes in the **Web.config** file.

7.3.10.2 Filtering the swehearting events

Important!

The **Web.config** file configuration must be performed on the computer where it is planned to work with the **Swehearting** report.

After making any changes in the **Web.config** file, it is necessary to restart the **Cassini Service** utility.

You can filter the swehearting events in order to build the **Swehearting** report only by the events which occurred while the receipt was open.

To filter the swehearting events, do the following:

- Open the **POS** database in the SQL Server Management Studio software (1).

id	FunctionNumber	FunctionName
9	522829E2-D0D3-2CA0-F9D0-9FD3CE278FC3	1001 Authorization
10	9F9F28F2-09E9-014D-795A-0C20F88D9F91	1003 Logout Users
11	9FC1DA1B-8C60-3E05-DE99-F21628C33FAF	2000 Start of the document
12	4975F0E1-0A30-A886-37E9-14F48F8395D	2001 End of document
13	8880FAD8-83DD-E7EC-F04C-EB4BDC8997A	2002 Adding product to document
14	87E0DF30-4482-7XC0-8E31-AB78E84DF248	2003 Change the quantity of goods
15	028C9187-C321-4F0F-30ED-AF3461699A9C	2006 removal of the goods from the document
16	87F19C3B-E5D1-72CC-E18B-7E2EC4C38055	2009 Change in the price of goods in the document
17	B8ECFE4F-2888-A9A5-2D52-725810D21D0E	2012 Assign prices (margin) of the product
18	68587058-EF88-3786-20FC-68396D0E38E8	2015 Cancellations document
19	E321AA7D-0FEB-FF48-D8C5-EAED16C30CFD	2018 Sub total
20	B4EC7FCF-D4FF-5877-2182-8D196F05D646	2021 Calculation
21	644A3E3E-4E96-898A-CDBA-A31E564D8A43	2022 Total
22	9A1A8903-E383-118B-E599-3CC470D04482	2024 Payment (Payment)
23	C360712B-B20C-511E-6582-9C73803C56F	2025 Print a financial instrument
24	920094E4-621E-D701-A66C-800569D0E1EFC	2027 Assign prices (margin) to document
25	1E58DB85-E589-25A8-8781-6DC1A0D9853C	3000 Open Cash Drawer
26	3D7888EF-688D-AE31-2E5F-673548287134	3001 Collection
27	8005CA53-383D-A216-8D35-7F61E58C168F	3002 Adding money to the cashier

- Open the **dbo.FuncDic** table (2).

- Copy to the clipboard or memorize the function numbers in the **FunctionNumber** column (3) which will indicate the beginning and the end of the receipt.

Note

For example, the **Document start** function with the corresponding function number **2000** can be used as the receipt beginning, and the **Result** function with the corresponding function number **2022** can be used as the receipt end.

- Go to the <Intellect installation directory>\Modules\Wt2.
- Open the **Web.config** file for editing.
- For the **SweatheartingBeginReceiptPosFunctionNumber** key (1) specify the value corresponding to the function number used as the receipt beginning (3).

```

82 <!-- pos add item function number -->
83 1 <add key="SweatheartingBeginReceiptPosFunctionNumber" value="2000" />
84 <!-- pos start check function number -->
85 2 <add key="SweatheartingEndReceiptPosFunctionNumber" value="2022" />
86 <!-- pos end check function number -->
87 3 <add key="SweatheartingFilterByReceiptIntervals" value="0" />
88 <!-- filter sweathearting detector events to internals of check -->

```

- For the **SweatheartingEndReceiptPosFunctionNumber** key (2) specify the value corresponding to the function number used as the receipt end (3).
- To enable filtering, specify the **1** value for the **SweatheartingFilterByReceiptIntervals** key (3). The default key value is **0** (filtering is disabled).
- Save the changes in the **Web.config** file.

Note

As a result, only the events which occurred while the receipt was open will be displayed in the **Sweathearting** report. If the sweathearting event occurred when the receipt was closed, such event will not be displayed in the report.

Note

The receipts which do not have their beginning and end specified in the **Web.config** file will be considered incorrect and will not be processed. Meanwhile, the receipt with several beginnings and ends specified will be processed.

7.3.10.3 Setting the timeout for sweathearting event addition to report

Important!

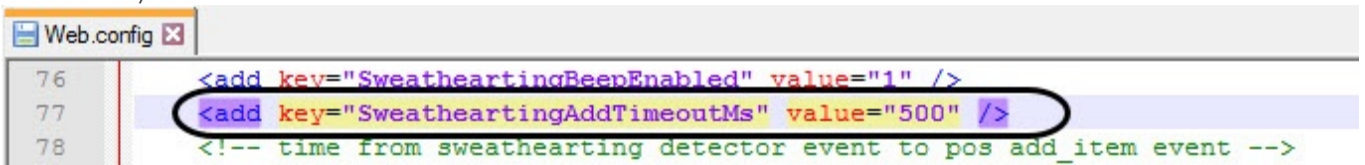
The **Web.config** file configuration must be performed on the computer where it is planned to work with the **Sweathearting** report.

After making any changes in the **Web.config** file, it is necessary to restart the **Cassini Service** utility.

You can set the timeout between the sweathearting detector event and the POS event. If this timeout is exceeded, the sweathearting event will be added to the report. To set the timeout, do the following:

- Go to the <Intellect installation directory>\Modules\Wt2.
- Open the **Web.config** file for editing.

- For the **SweatheartingAddTimeoutMs** key specify the required value in milliseconds. The default value is **500** (500 milliseconds).



```

76 <add key="SweatheartingBeepEnabled" value="1" />
77 <add key="SweatheartingAddTimeoutMs" value="500" />
78 <!-- time from sweathearting detector event to pos add_item event -->

```

- Save the changes in the **Web.config** file.

7.3.10.4 Disabling sound notification about new events in Sweethearting report

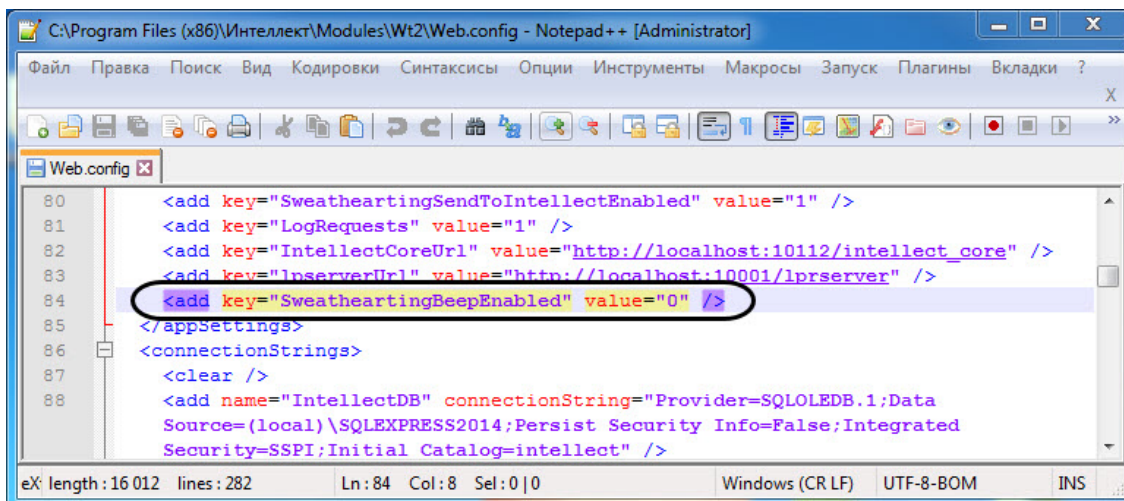
Important!

The **Web.config** file configuration must be performed on the computer where it is planned to work with the **Sweethearting** report.

After making any changes in the **Web.config** file, it is necessary to restart the **Cassini Service** utility.

To disable the sound notification about new events in **Sweethearting** report, do the following:

- Go to the *<Intellect installation directory>\Modules\Wt2*.
- Open the **Web.config** file for editing.
- Set the **0** value for the **SweatheartingBeepEnabled** key. The default value is **1** (the sound notification is enabled).



```

80 <add key="SweatheartingSendToIntellectEnabled" value="1" />
81 <add key="LogRequests" value="1" />
82 <add key="IntellectCoreUrl" value="http://localhost:10112/intellect_core" />
83 <add key="InserverUrl" value="http://localhost:10001/lprserver" />
84 <add key="SweatheartingBeepEnabled" value="0" />
85 </appSettings>
86 <connectionStrings>
87 <clear />
88 <add name="IntellectDB" connectionString="Provider=SQLOLEDB.1;Data
Source=(local)\SQLEXPRESS2014;Persist Security Info=False;Integrated
Security=SSPI;Initial Catalog=intellect" />

```

- Save the changes in the **Web.config** file.

7.3.10.5 Configuring the events preloaded on first Sweethearting report launch

Important!

The **Web.config** file configuration must be performed on the computer where it is planned to work with the **Sweethearting** report.

After making any changes in the **Web.config** file, it is necessary to restart the **Cassini Service** utility.

To configure the events which should be preloaded on the first **Sweethearting** report launch, do the following:

- Go to the *<Intellect installation directory>\Modules\Wt2*.
- Open the **Web.config** file for editing.

- For the **SweatheartingStepCount** key specify the required number of preloaded events. The default key value is **1000** (1000 events).

```
Web.config x
78 <!-- time from sweathearting detector event to pos add_item event -->
79 <add key="SweatheartingStepCount" value="1000" />
80 <!-- number of sweathearting detector events to process on one processing step -->
```

- For the **SweatheartingPreloadDays** key specify the required number of days which events should be displayed. The default key value is **140** (140 days).

```
Web.config x
88 <!-- filter sweathearting detector events to internals of check -->
89 <add key="SweatheartingPreloadDays" value="140" />
90 <!-- load history on start -->
```

Note

For example, if the **1** (1 day) value is specified for the **SweatheartingPreloadDays** key, then on the first **Sweathearting** report launch all events occurred within the past 24 hours will be displayed. However, the number of preloaded events is limited by the value specified for the **SweatheartingStepCount** key. Therefore, if within the specified number of days the number of occurred events exceeds the **SweatheartingStepCount** key value, only the most recent events will be displayed in the report.

- Save the changes in the **Web.config** file.

Note

This configuration applies to the events which are preloaded only on the first **Sweathearting** report launch. After you specify any filters in the report interface, they will be applied to the report.

7.4 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 is performed in the following sequence:

- [Setting up the user access rights to departments](#)
- [Setting up the access rights to Time and Attendance reports](#)

Note

In order to perform the setup, you need to create the *Time and Attendance* interface object in the server, see [Time and Attendance object settings](#).

Note

In order to be able to work with Time and Attendance reports, the role with the right to perform the **Time and Attendance Module operator** operations should be created and assigned to users, as described in [Set up the roles](#).

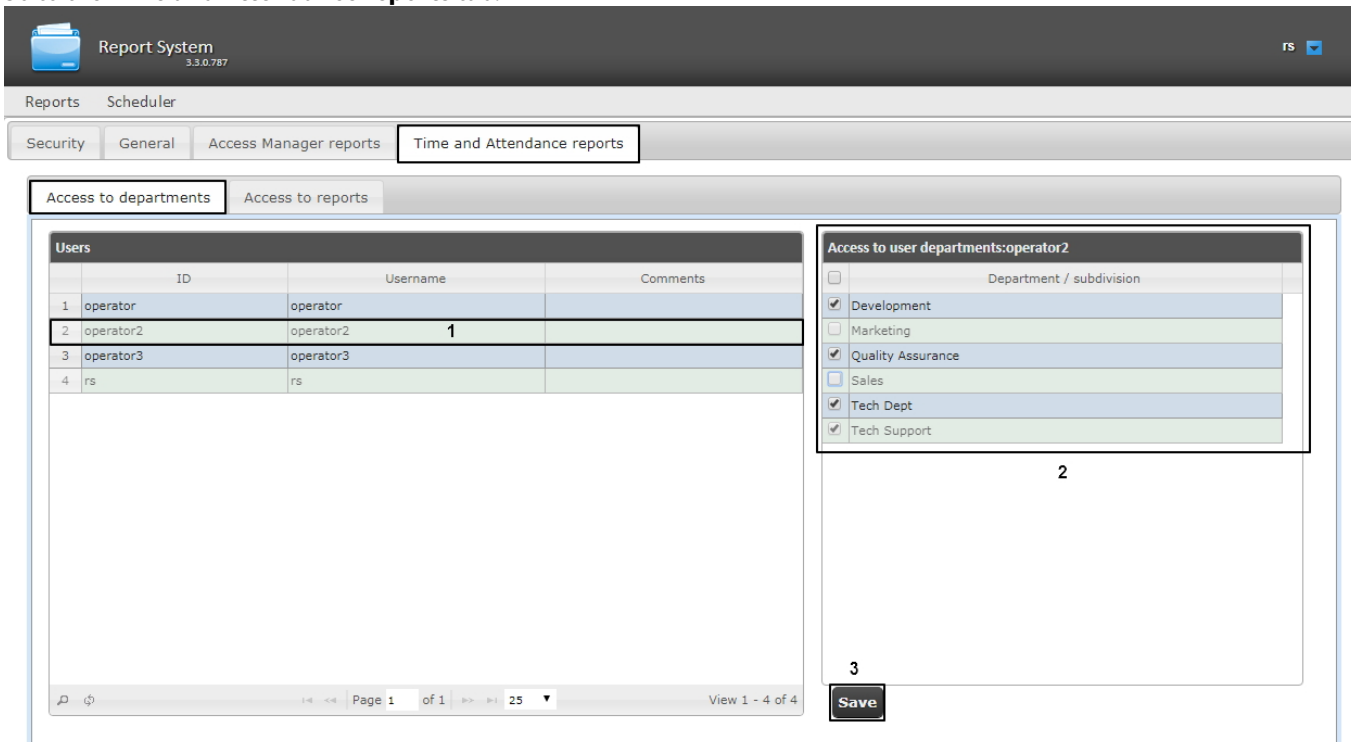
Note

Once the configuration is complete, update the report database as described in [Updating the report database](#).

7.4.1 Setting up the user access rights to departments

To configure user access to departments do the following:

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



2. In the **Users** table select the user for which access is to be configured (1).

Note

The user must have a role with the right to perform the **Time and Attendance module operator** operations. For details on role configuration, see [Set up the roles](#).

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.

Note

The **rs** user has access to all departments by default, this can not be changed.

Configuring of user access to departments is completed.

7.4.2 Setting up the access rights to Time and Attendance reports

To configure user access to reports do the following:

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

2. In the **Users** table select user for which access is configured (1).

Note

The user must have a role with the right to perform the **Time and Attendance module operator** operations. For details on role configuration, see [Set up the roles](#).

3. The list of available reports for the selected user is displayed in the **Access to user reports** table (2).
4. Set the checkboxes next to reports which will be enabled for the selected user.
5. Click the **Save** button (3).
6. Repeat steps 2-5 for all users.

Configuring user access to reports is complete.

7.4.3 Configuring the Extended report on the presence at the workplace and Total report on the presence at the workplace

Page contents

- [Enabling the Extended report on the presence at the workplace and Total report on the presence at the workplace](#)
- [Adding the fields to the custom database template file](#)

7.4.3.1 Enabling the Extended report on the presence at the workplace and Total report on the presence at the workplace

Attention!

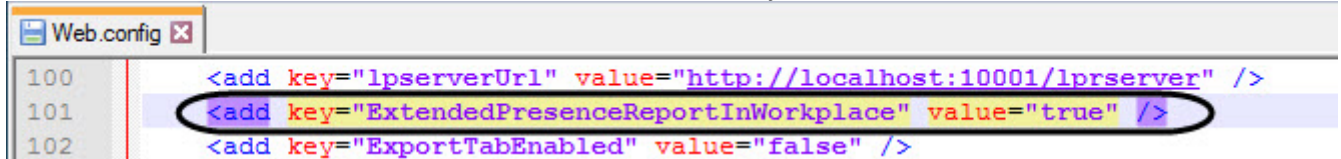
The **Web.config** file configuration must be performed on the computer where it is planned to work with the **Extended report on the presence at the workplace** and **Total report on the presence at the workplace**.

Note

After making any changes in the **Web.config** file, it is necessary to restart the **Cassini Service** utility.

To enable these reports, do the following:

1. Go to the <Intellect installation directory>\Modules\Wt2.
2. Open the **Web.config** file for editing.
3. Set the **true** value for the **ExtendedPresenceReportInWorkplace** key. The default value is **false**.



```

100 <add key="lpserverUrl" value="http://localhost:10001/lprserver" />
101 <add key="ExtendedPresenceReportInWorkplace" value="true" />
102 <add key="ExportTabEnabled" value="false" />

```

4. Save the changes in the **Web.config** file.
5. As a result, it will be possible to provide the access to these reports to the user (see [Setting up the access rights to Time and Attendance reports](#)).

Attention!

After activating these reports, the **Presence at workplace report** will become unavailable.

7.4.3.2 Adding the fields to the custom database template file

For the **Extended report on the presence at the workplace** report and **Total report on the presence at the workplace** operation, it is necessary to do the following:

1. Create a text document with the .dbi extension (for example **ext.dbi**) in the root directory of the *Intellect* installation – **C:\Program Files (x86)\Intellect**.

Note

You can add the fields to the **intellect.ext.dbi** file, which is specifically designed for custom tables and fields (see [The ddi.exe utility for editing database templates and external settings files](#)).

2. Open this dbi file in a text editor.

Attention!

Before you enter any data, make sure that the Windows-1251 text encoding is selected. Otherwise, when adding additional fields to the database, the text will be recognized incorrectly.

3. Copy the following code block to the dbi file:

```

[OBJ_PERSON]
personnelCat, CHAR, 64 //Personnel category{C%Workers|Employees|Managers|Other}
course, CHAR, 255 //Activity area
contractNum, CHAR, 255 //Contract number
specialty, CHAR, 255 //Speciality

```

4. After the fields are created, it is necessary to save the changes in the dbi file.

Attention!

After you save the dbi file, it is necessary to update the main database. To do this, use the idb.exe utility (see [The ddi.exe utility for editing database templates and external settings files](#)).

7.4.4 Setting up the Presence at workplace report

Attention!

The **Web.config** file configuration must be performed on the computer where it is planned to work with the **Presence at workplace report**.

After making any changes in the **Web.config** file, it is necessary to restart the **Cassini Service** utility.

The **Presence at workplace report** has two appearances: **Standard** or **With page header**. In the **With page header** option, photos of users can be displayed in the report. To display user photos, do the following:

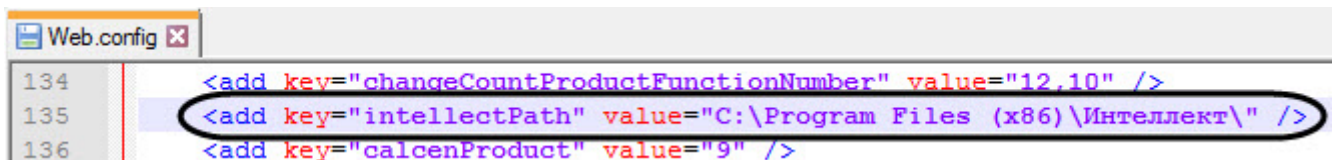
1. Go to the <Intellect installation directory>\Modules\Wt2.
2. Open the **Web.config** file for editing.
3. Add the following key to the **<appSettings>** key group:

```
<add key="intellectPath" value="C:\Program Files (x86)\Intellect\" />
```

where "C:\Program Files (x86)\Intellect\" is the *Intellect* installation directory.

Note

Photos are assigned to users in the *Access Manager* module (see [Assigning a photograph to a user in the Access Manager software module](#)).



4. Save the changes in the **Web.config** file.

7.5 Setting up the Access Manager reports

Attention!

Prior to setting up the Access Manager reports, it is necessary to update the report database as described in [Updating the report database](#).

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

Access Manager reports setup is performed in the following sequence:

1. [Setting up user access to departments](#)
2. [Setting up user access to reports](#)

Note

To perform the configuration, the *Access Manager* interface object must be created and configured on the Server, see [Configuration of the Access Manager module](#).

Note

In order to be able to work with Access Manager reports, the role with the right to perform the **Access Manager operator** operations should be created and assigned to users, as described in [Set up the roles](#).

7.5.1 Setting up user access to departments

To configure user access to departments do the following:

1. Go to the **Access manager reports > Access to departments** tab.

2. In the **Users** table select user for which access is to be configured (1).

Note

The user must have a role with the right to perform the **Access Manager operator** operations. For details on role configuration, see [Set up the roles](#).

3. The list of available departments for the selected user is displayed in the **Access to user departments** table (2).
4. Set the 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.

Note

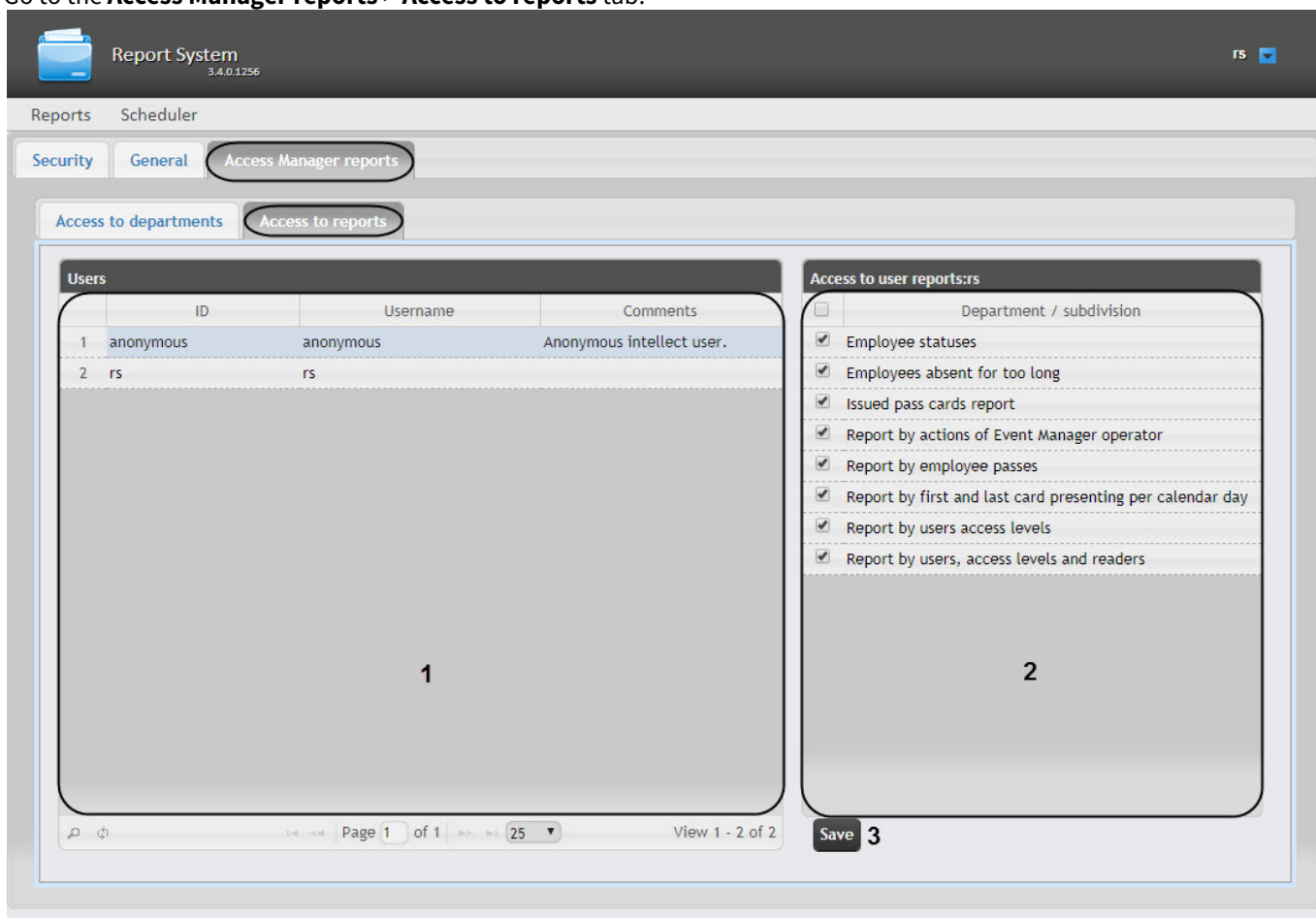
The **rs** user has access to all departments by default.

Configuring user access to departments is completed.

7.5.2 Setting up user access to reports

To configure user access to reports do the following:

1. Go to the **Access Manager reports > Access to reports** tab.



2. In the **Users** table select user for which the access is configured (1).

Note

The user must have a role with the right to perform the **Access Manager operator** operations. For details on role configuration, see [Set up the roles](#).

3. The list of available reports for the selected user is displayed in the **Access to reports of user** table (2).
4. Set the checkboxes next to reports which will be enabled for the selected user.
5. Click the **Save** button (3).
6. Repeat steps 2-5 for all users.

Setting up user access to Access Manager reports is complete.

7.5.3 Setting up the Issued pass cards report

On this page:

- [Activating the Issued pass cards report](#)
- [Adding fields to the user database templates file](#)
- [Editing a registry key](#)


7.5.3.1 Activating the Issued pass cards report

Attention!

The **Issued pass cards report** should be set up on the same computer on which this report will be operated. After making any changes to the **Web.config** configuration file, it is necessary to restart the **Cassini Service**.

To activate the **Issued pass cards report**, do the following:

1. Go to the `<Intellect installation directory>\Modules\Wt2` path.
2. Open the **Web.config** file for editing.
3. Set the **true** value for the **EnablePasskindReport** key. The default value is false.



```

85 <add key="lpserverUrl" value="http://localhost:10001/lprserver"/>
86 <add key="ExtendedPresenceReportInWorkplace" value="false"/>
87 <add key="EnablePasskindReport" value="true"/>
88 <add key="ExportTabEnabled" value="false"/>

```

4. Save the changes to the edited **Web.config** file.

7.5.3.2 Adding fields to the user database templates file

To ensure the correct operation of the **Issued pass cards report**, do the following:

1. In the root directory of the *Intellect* installation `C:\Program Files (x86)\Intellect\` create a text document with the dbi extension, for example, **ext.dbi**.

Note

The following indicated below can be added to the **intellect.ext.dbi** file, which is specially designed for custom tables and fields (see [The ddi.exe utility for editing database templates and external settings files](#)).

2. Open this dbi file in a text editor.

Attention!

Before you start entering data, make sure that the text encoding of Windows-1251 is selected. Otherwise, when adding additional fields to the database, the text will be recognized incorrectly.

3. Copy the following code block into a dbi file:

```
[OBJ_PERSON]
passkind, CHAR, 255 // Pass card type{C%Visitor single entry|Car single entry|Truck single
entry|Temp. with photo|Temp. without photo|Temp. bicycle|Temp. car|Temp. truck up to 10
tons|Temp. truck above 10 tons|Temp. NSP|Perm. car|Perm. bicycle|Duplicate}
```

```
[UPDATE_PERSON_LOG]
passkind, CHAR, 255
```

4. After all necessary additional fields are created, save the changes.

Attention!

After you save the dbi file, it is necessary to update the main database. To do this, use the idb.exe utility (see [The idb.exe utility for converting databases, selecting database templates and making backup copies of databases](#)).

7.5.3.3 Editing a registry key

To ensure the correct operation of the **Issued pass cards report**, it is necessary to change the value of the **LoggingPersonChangesRequired** key to **1** (for more details, see [Registry keys reference guide](#), for more information about working with the registry, see [Working with Windows OS registry](#)).

7.6 Setting up the Auto reports

7.6.1 Setting up the Recognized license plates report

If the recognized LP images and the vehicle frames are stored in a folder on a disk (see [Configuring the recognized LP images and vehicle images storage on disk](#)), then for the correct operation of the **Recognized license plates report** (see [Recognized license plates report](#)), it is necessary to do the following:

1. Go to the `<Intellect installation directory>\Modules\Wt2`.
2. Open the **Web.config** file for editing.
3. For the **lpServerUrl** key specify the server address where the recognized LP images and the vehicle frames are stored. The default key value is **http://localhost:10001/lprserver**.



4. Save the changes in the **Web.config** file.

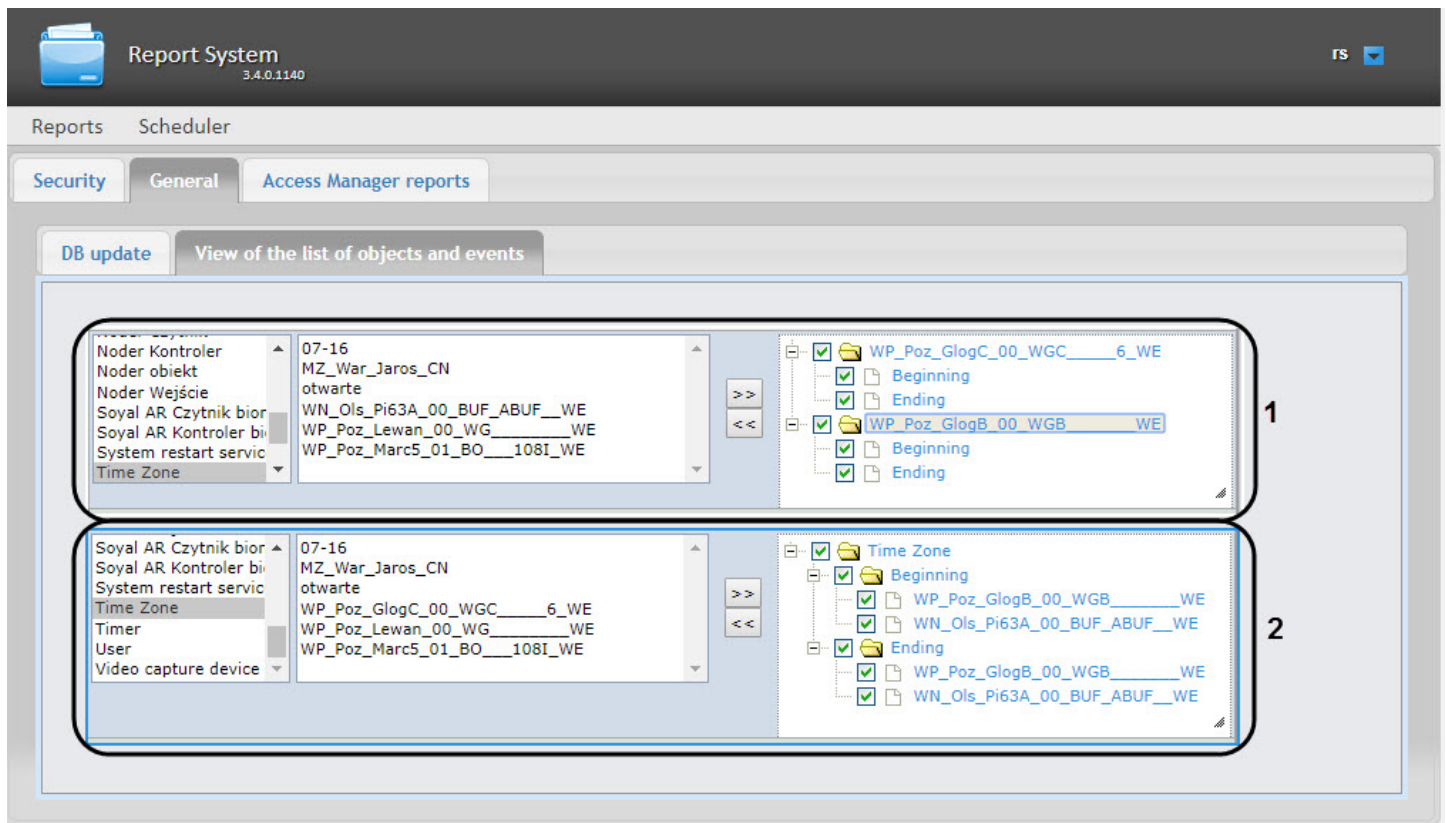
Important!

The **Web.config** file configuration must be performed on the computer where it is planned to work with the **Recognized license plates** report.

7.7 Setting up the general reports

7.7.1 Selecting the view of the list of objects and events for the Protocol report

It is possible to select the view of the list of objects and events for the Protocol report. This can be set up on the **View of the list of objects and events** tab of the administration page.



To select the view of the list of objects and events, left-click on the required view: **(1)** or **(2)**.

Note

The selected view is highlighted with a blue frame.

7.7.2 Configuring the date and time format in General Reports

Attention!

The **DateFormat.config** file configuration must be performed on the computer where it is planned to work with the General Reports.

After making any changes in the **DateFormat.config** file, it is necessary to restart the **Cassini Service** utility.

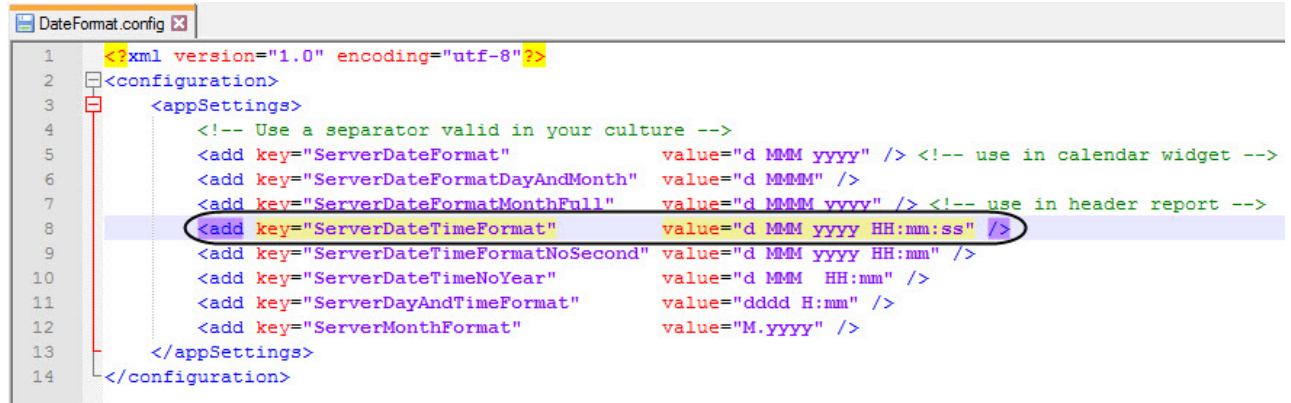
To configure the date and time format in General Reports, do the following:

1. Go to the <Intellect installation directory>\Modules\Wt2\App_Data\Settings.
2. Open the **DateFormat.config** file for editing.
3. Set the value for the **ServerDateTimeFormat** key, which corresponds to the required date and time format, where:
 - **d** is the day of the month.
 - **MMM** is the name of the month.
 - **yyyy** is year.
 - **HH** is hours.
 - **mm** is minutes.
 - **ss** is seconds.

Note

The number of identical characters sets the format for a short date and time display in the report.

For example: **MMM** means that only 3 characters are allocated to the month name, and all subsequent characters will not be displayed. **dddd** means that the day of the week will be displayed. **yy** means that only the last 2 digits of the year will be displayed.



```

1 <?xml version="1.0" encoding="utf-8"?>
2 <configuration>
3   <appSettings>
4     <!-- Use a separator valid in your culture -->
5     <add key="ServerDateFormat" value="d MMM yyyy" /> <!-- use in calendar widget -->
6     <add key="ServerDateFormatDayAndMonth" value="d MMM" />
7     <add key="ServerDateFormatMonthFull" value="d MMM vvvv" /> <!-- use in header report -->
8     <add key="ServerDateTimeFormat" value="d MMM yyyy HH:mm:ss" />
9     <add key="ServerDateTimeFormatNoSecond" value="d MMM yyyy HH:mm" />
10    <add key="ServerDateTimeNoYear" value="d MMM HH:mm" />
11    <add key="ServerDayAndTimeFormat" value="dddd H:mm" />
12    <add key="ServerMonthFormat" value="M.yyyy" />
13  </appSettings>
14 </configuration>

```

4. Save the changes in the **DateFormat.config** file.

7.8 Setting up the reports by Queue Length detectors

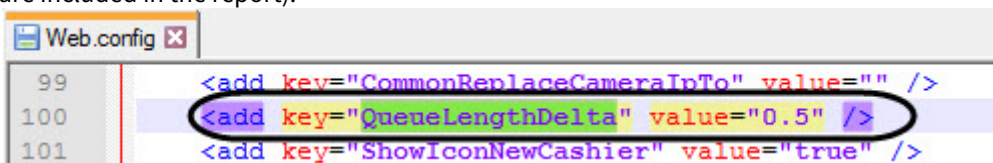
7.8.1 Disabling the zero value filter

Attention!

The **Web.config** file configuration must be performed on the computer where it is planned to work with the reports by Queue Length detectors.

To include the 0 values to the table reports by Queue Length detectors, do the following:

1. Go to the <Intellect installation directory>\Modules\Wt2.
2. Open the **Web.config** file for editing.
3. Set the **0** value for the **QueueLengthDelta** key. The default value is **0.5** (which means that only the values greater than 0.5 are included in the report).



```

99 <add key="CommonReplaceCameraIpTo" value="" />
100 <add key="QueueLengthDelta" value="0.5" />
101 <add key="ShowIconNewCashier" value="true" />

```

4. Save the changes in the **Web.config** file.

7.9 Setting up the Customer behavior reports

7.9.1 Cleaning up the database for the Customer behavior reports

Cleaning up the database for the Customer behavior reports allows you to avoid the situation when the surveillance areas of the **Heat map detection** object (see [Configuring the «Heat map detection» module](#)) remain in the database after their deletion from *Intellect* and are displayed in the Customer behavior reports (see [Working with Customer behavior reports](#)).

Important!

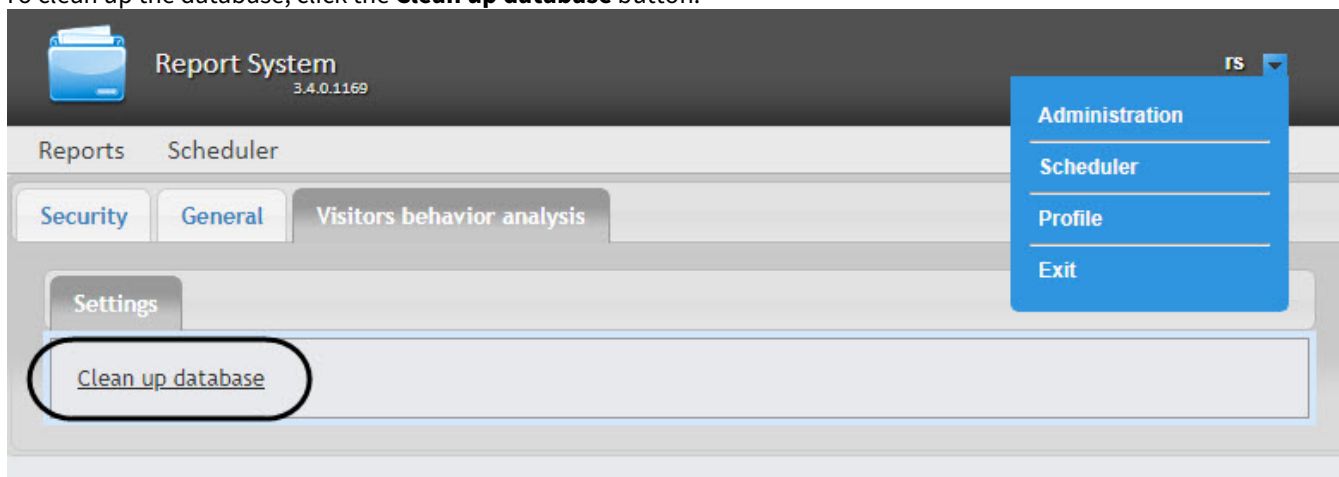
The database is cleaned up on the server which is specified in the *Intellect Web Report System* connection string in the file C:\Program Files(x86)\Intellect\Modules\Wt2\Web.config (see [Intellect Web Report System installation](#)).

Note

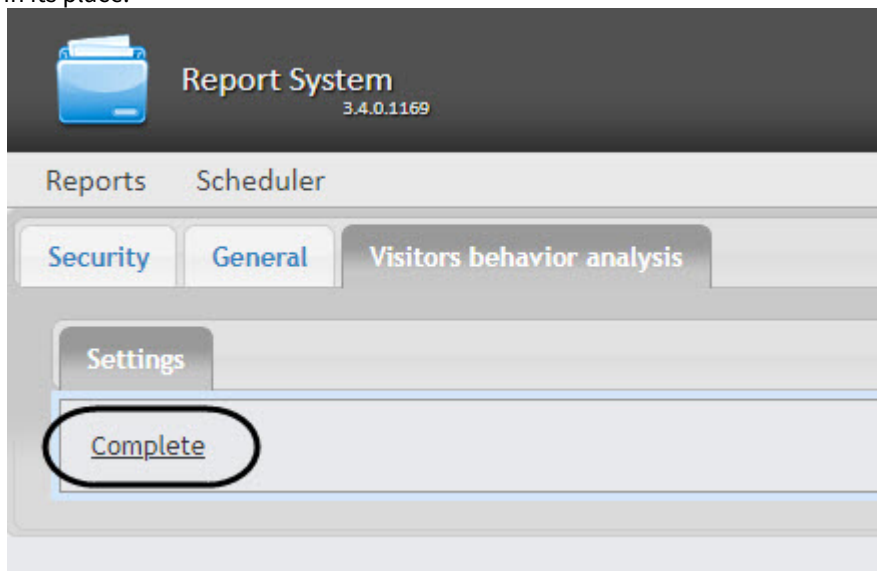
Only the data related to the **Heat map detection** object is deleted from the database.

To clean up the database for the Customer behavior reports, do the following:

1. Go to the **Administration**, then open the **Visitors behavior analysis** tab, then open the **Settings** tab.
2. To clean up the database, click the **Clean up database** button.



3. After you click the **Clean up database** button, the database should be cleaned up, and the **Complete** sign should appear in its place.

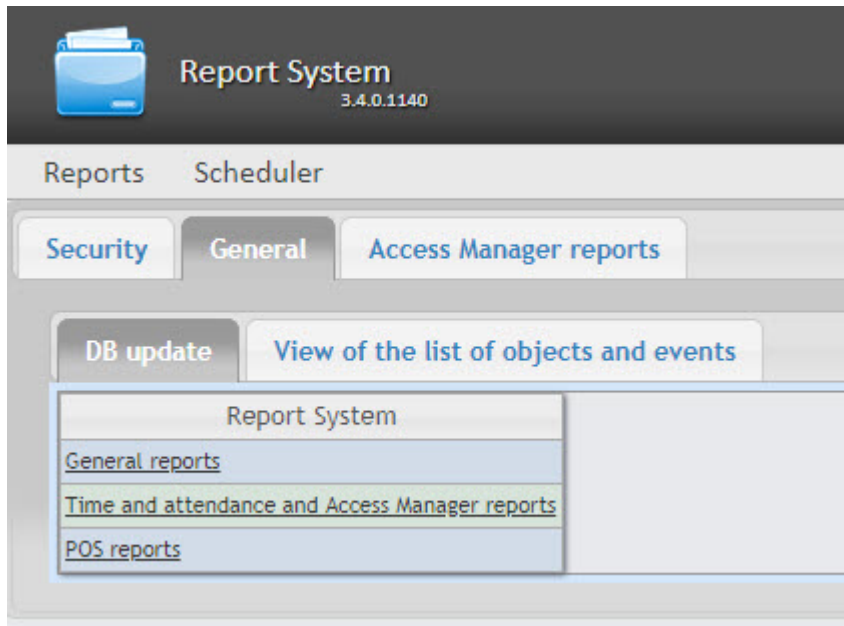


4. After the database clean up, the computer with the database server should be restarted.

Cleaning up the database for the Customer behavior reports is completed.

7.10 Updating the report database

Stored procedures for **General**, **Time and Attendance** and **POS** reports are updated in the database on the **General** tab of the administration page.



In order to update the stored procedures in the database for a specific type of reports, click the corresponding link in the **DB update** table.

The stored procedures for Time and Attendance reports and Access Manager reports are stored in a single database. If any of the two modules is absent, it will not hamper the update procedure: the stored procedure for the absent module will not be loaded in the database.

Warning!

The **General reports** database must be updated after each new installation of the Web Report System or re-installation with configuration update.

7.11 Selecting the camera stream in live video reports

To select the camera stream in live video reports, do the following:

1. Go to <Intellect installation directory>\Modules\Wt2.
2. Open the **Web.config** configuration file for editing.
3. For the **IntellectVideoStreamNumber** key specify the required camera stream number from **1** to **4**. By default, the value is **0** (the first camera stream).

```

41 <add key="IntellectPassword" value="" />
42 <add key="IntellectArchivePassword" value="" />
43 <!-- compression values [0..5] -1 means send without recompression -->
44 <add key="IntellectVideoCompression" value="-1" />
45 <!-- stream number [0..4]; 0 - default. -->
46 <add key="IntellectVideoStreamNumber" value="0" />
47 <add key="PosShowCodeColumn" value="false" />
48 <add key="ScreenshotInCheckDetailsEnabled" value="1" />
49 <add key="WebConfigVersion" value="30300" />
50 <!-- firefox for RSWT-2069 -->

```

4. Save the changes in the **Web.config** file.

Important!

This configuration must be performed on the computer where it is planned to work with reports and where the live video is available for viewing.

7.12 Setting up the People Counter detectors reports

7.12.1 Configuring access rights to People Counter detectors reports

To configure the user access to the *People Counter detectors* reports, do the following:

1. Go to the **People Counter detectors** tab > **Access to reports**.

The screenshot shows the 'Report System' interface with the 'People Counter detectors' tab selected. The 'Access to reports' section contains two tables:

Table 1: Users

ID	Username	Comments
1	anonymous	Anonymous intellect user.
2	rs	

Table 2: Access to user reports: rs

Department / subdivision	Access
	<input checked="" type="checkbox"/>
Face counter report (detailed by cameras)	<input checked="" type="checkbox"/>
Face counter report (detailed by detectors)	<input checked="" type="checkbox"/>
Face counter report (detailed by servers)	<input checked="" type="checkbox"/>
Gender analytics report	<input checked="" type="checkbox"/>

A 'Save' button is located at the bottom right of the configuration area.

2. In the **Users** table (1), select the user for whom it is necessary to configure access to reports.

Note

The user should have a role with the right to perform the operation of the **Operator of People Counter detector**. For role settings, see [Set up the roles](#).

3. The **Access to user reports** table (2) displays a list of available reports for the selected user.
4. Select the check boxes for the reports to which it is necessary to grant access for this user.
5. Click on the **Save** button (3).
6. Repeat steps 2-5 for all required users.

Configuring access rights to the *People Counter detectors* reports is completed.

8 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 the Intellect Web Report System](#) section.

Note.

For proper operation of the Web Report System you may need to edit the configuration file (**Web.config**) by increasing the value of the **CommandTimeout** parameter (see the [XML-file parameters reference guide](#))

8.1 Working with POS reports

POS reports are created by the local database of the *Intellect* software package, but it is also possible to use data from remote servers. Configuration of database replication is needed (see [Configuring the POS Replicator system object](#)).

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

8.1.1 General reports

8.1.1.1 Selecting a type of general POS report

In order to select type of general POS report click **POS reports** in the menu of reports. As a result the list of available general POS reports (with a short description of each one) is displayed.



POS reports

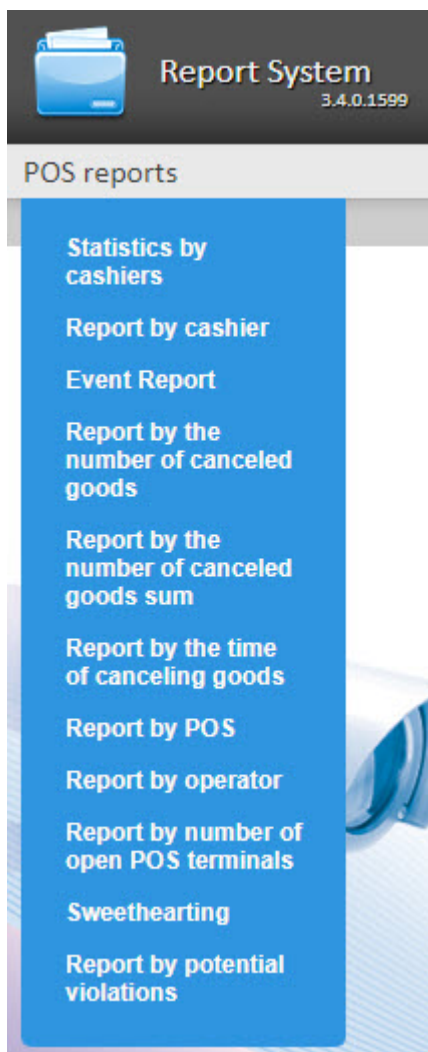
Navigation: POS reports

Statistics by cashiers	Summary statistics table by cashiers
Report by cashier	General table of by-cashier events.
Event Report	General table of by-events and by-cashier.
Report by the number of canceled goods	
Report by the number of canceled goods sum	
Report by POS	General table of by-POS events.
Report by operator	General table of by-operator events.
Report by number of open POS terminals	Summary table of the open POS
Sweethearting	Sweethearting detection
Report by potential violations	General table of events 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.



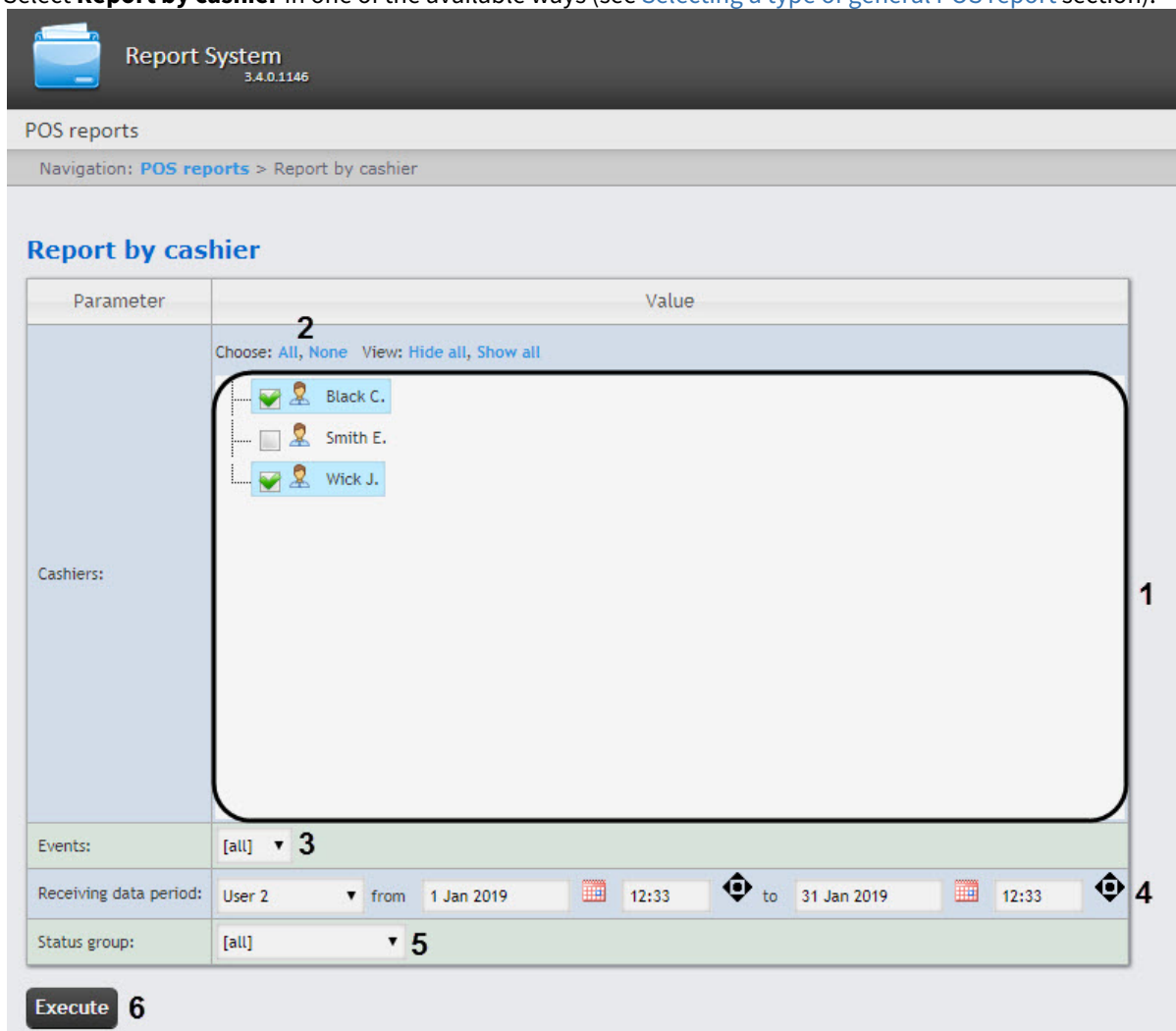
8.1.1.2 Statistics by cashiers

Important!

In order to generate the cashier statistics, the **POS-terminal** object should be setup and configured in the *Intellect* (see [The POS-terminal object setup](#)).

In order to display the cashier statistics do the following:

1. Select **Report by cashier** in one of the available ways (see [Selecting a type of general POS report](#) section).



2. Specify the period in one of the following ways (1):
 - a. By default, 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.
 - b. There is also a possibility to build a report for a fixed period of time (a week, a month, etc.). These periods are selected in the drop-down list.
 - c. Finally, the **User defined 2** period enables to enter the start and end time of period for which the report is to be created using the button.
3. Click **Execute** to run the report (2).

As a result of the operation, a summary table of events will be displayed for all the cashiers in accordance with predefined parameters. The number of events registered for each cashier will be displayed in the corresponding column. The **Total** column for each type of event will indicate the total number of events for each cashier. To view them, click the **[all]** link.

POS reports

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

Status group: Events:

Number	Name	Total	Black C.	★ Wick J.
1	Logout Users	631	375	256
2	Starting document	12043	1625	10418
3	End of document	12156	1625	10531
4	Adding product to the document	58665	7375	51290
5	Change in the price of goods in the document	2201	375	1826
6	Назначение скидки (наценки) на товар	16315	2375	13940
7	Calculation	12158	1625	10533
8	Result	12158	1625	10533
9	Payment	12157	1625	10532
10	Printing a document	12156	1625	10531
11	Removing item from a document	125		125
12	Subtotal	15774		15774

Save

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

8.1.1.3 Report by cashier

Important!


In order to generate a report by cashier, the **POS-terminal** object should be setup and configured in the Intellect (see [The POS-terminal object setup](#)).

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).

2. Select cashiers by whom it is necessary to display a report by setting corresponding checkboxes checked in the list (1).
3. Specify a filter of those events that should be displayed in a report (2). If **All** is selected then filter of events is not considered and report is created by all events.
4. From the **Period:** drop-down list select the time period for which the report is to be created (3).

Note

If the **Custom** 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.

5. Specify a group of statuses of those events that should be displayed in a report (4). If **All** is selected then all POS events are displayed regardless of their status.

6. Click **Execute (5)**.

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**.

8.1.1.4 Report by event

Report by event allows viewing information on selected events including what shop and checkout lane they took place in, what cashier performed specified actions.

Important!



In order to generate a report by event, the **POS-terminal** object should be setup and configured in the *Intellect* (see [The POS-terminal object setup](#)).

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

1. Select **Report by event** in one of the available ways (see [Selecting a type of general POS report](#) section).

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

Report by event



Parameter	Value
Events:	Choose: All , None 1 View: Hide all , Show all <input checked="" type="checkbox"/> [2001] End of document 2 <input checked="" type="checkbox"/> [2002] Adding product to the document <input checked="" type="checkbox"/> [2003] Change the quantity of goods <input checked="" type="checkbox"/> [2006] Removing Item from the document <input checked="" type="checkbox"/> [2009] Change in the price of goods in the document <input checked="" type="checkbox"/> [2012] Appointment prices (margins) of the product <input checked="" type="checkbox"/> [2015] Cancellations document <input checked="" type="checkbox"/> [2018] Sub total <input checked="" type="checkbox"/> [2021] Calculation <input checked="" type="checkbox"/> [2022] Result <input checked="" type="checkbox"/> [2024] Payment <input checked="" type="checkbox"/> [2025] Printing a document <input checked="" type="checkbox"/> [2027] Assign prices (margins) to document
3 Receiving data period:	User <input type="text"/> from 10/11/2017  to 10/11/2017 
4 Status group:	[all] <input type="text"/>

Execute **5**

2. Select events to be displayed in the report by checking corresponding boxes in the list (**2**).

Note.

Click **All** to select every item on the list or **None** to remove selection (**1**).

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** 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 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. Specify a group of statuses of those events that should be displayed in a report (**4**). If **All** is selected then all POS events are displayed regardless of their status.
5. Click **Execute** (**6**).


As a result a general table of cashiers and events is displayed according to the specified parameters. A total of events for a cashier is displayed in the event type column.

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

Status group: [all] Events: [all]

Number	Name	Total	User	Authorization	Logout	Users	Starting document	End of document	Adding product to the document	Removing Item from the document	Change in the price of goods in the document	Appointment prices (margins) of the product	Sub total	Calculation	Result	Payment	Printing a docum
1	Ben Tompson	3	1			2											
2	Amanda Green	161				2	13	13	59		3	19		13	13	13	13
3	Nelson Ross	1854				2	136	136	665	1	19	150		192	137	137	137

8.1.1.5 Report by the number of canceled goods sum


Report System
3.4.0.1599

POS reports

Navigation: [POS reports](#) > Report by the number of canceled goods sum

Report by the number of canceled goods sum

Parameter	Value
Cashiers:	<div style="border: 1px solid #ccc; border-radius: 10px; padding: 10px; margin-bottom: 5px;"> <p style="font-size: 0.8em; margin: 0;">Choose: All, None View: Hide all, Show all</p> <ul style="list-style-type: none"> <li style="margin-bottom: 5px;"><input checked="" type="checkbox"/> Manson C. <li style="margin-bottom: 5px;"><input checked="" type="checkbox"/> Smith W. <li style="margin-bottom: 5px;"><input checked="" type="checkbox"/> Wick J. </div>
Sum is more than:	0 2
Period:	Custom 2 ▼ from 4 February 2020 02:25 PM to 4 February 2020 02:25 PM 3
Execute 4	

Navigation: POS reports > Report by the number of canceled goods sum > General report


Report by the number of canceled goods sum

from 1 January 2019 to 1 February 2019

You can save report in the following formats: Excel

	Events	Total	Smith W.
1	Cancelled goods	<u>4462.50</u>	<u>4462.50</u>

8.1.1.6 Report on sum of canceled goods


Report System
3.4.0.1599

POS reports

Navigation: [POS reports](#) > Report by the number of canceled goods

Report by the number of canceled goods

Parameter	Value
Cashiers:	Choose: All , None View: Hide all , Show all <div style="border: 2px solid black; border-radius: 15px; padding: 5px; margin-top: 5px;"> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Manson C. <input checked="" type="checkbox"/> Smith W. <input checked="" type="checkbox"/> Wick J. </div>
Goods:	Bread 0.5 kg 2
The quantity of goods cancellation:	0 3
Period:	Custom ▼ from 4 February 2020 to 4 February 2020 4

Execute 5

Navigation: [POS reports](#) > [Report by the number of canceled goods](#) > General report

Report by the number of canceled goods
from 1 January 2019 to 1 February 2019

You can save report in the following formats:

	Events	Total	Smith W.
1	Cancelled goods	125	125

8.1.1.7 Report by POS

Important!

In order to generate a report by POS terminal, the **POS-terminal** and **Shop** objects should be setup and configured in the *Intellect* (see [The POS-terminal object setup](#) and [Setting up the Shop system object](#)).

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).

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

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 4 from 10/30/2015 14:31 to 10/30/2015 14:31
Status group:	[all] 5

Execute **6**

2. 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.

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 events are displayed regardless of their status.
6. 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.

AUTO reports POS reports Time and Attendance reports

Status group: [all] Events: [all]

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

Save

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

8.1.1.8 Report by operator

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

Important!

In order to generate a report by POS operator, the **POS-terminal** object should be setup and configured in the *Intellect* (see [The POS-terminal object setup](#)).

Note

To configure the list of POS operators, see [Creating the list of POS operators](#).

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).

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

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 4 to 10/30/2015 14:35 4
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.

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

Status group: Events:

Number	Name	Total	rs
1	User deregistration	4	4

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

8.1.1.9 Report by number of open POS terminals

Important!

In order to generate a report by number of open POS terminals, the **POS-terminal** and **Shop** objects should be set up and configured in the *Intellect* (see [The POS-terminal object setup](#) and [Setting up the Shop system object](#)).

In order to display a report by number of open POS terminals, do the following:

1. Select a **Report by number of open POS terminals** in one way (see [Selecting a type of general POS report](#)).

Report System
3.4.0.1146

POS reports

Navigation: [POS reports](#) > Report by number of open POS terminals

Report by number of open POS terminals

Parameter	Value
POS:	<p>2</p> <p>Choose: All, None View: Hide all, Show all</p> <div style="border: 2px solid black; border-radius: 15px; padding: 10px;"> <p><input checked="" type="checkbox"/> Shop 1</p> <p><input checked="" type="checkbox"/> POS terminal 1</p> <p><input type="checkbox"/> Shop 2</p> </div> <p>1</p>
Receiving data period:	User ▼ from 31 Jan 2019 to 31 Jan 2019 3
Data averaging interval (min.):	30 4
Chart:	<input checked="" type="checkbox"/> 5
Layout:	Portrait ▼ 6
Delete zero values:	<input checked="" type="checkbox"/> 7

Execute **8**

2. 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**).

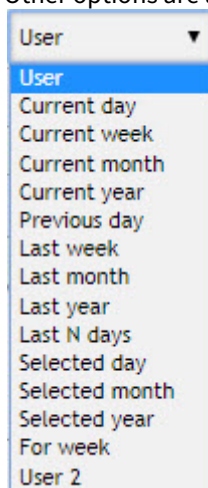
Note

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

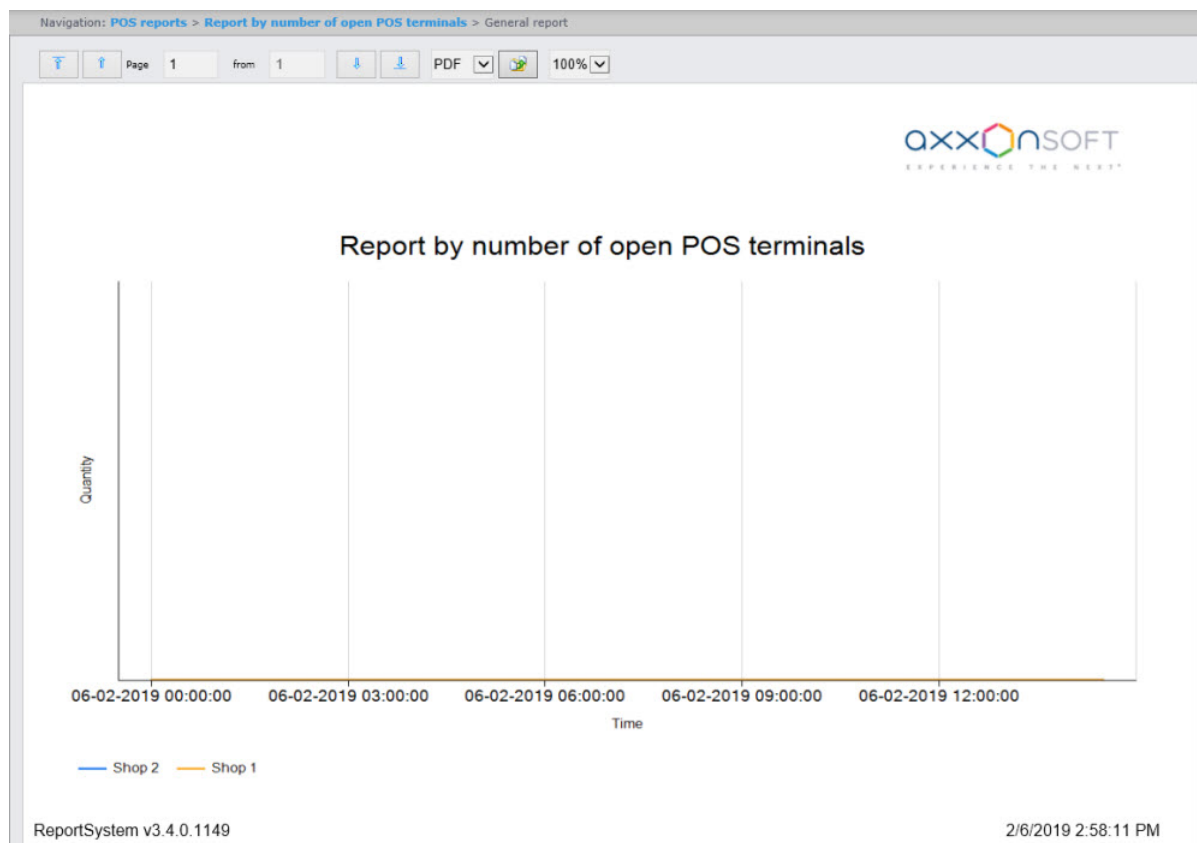
POS terminals which do not related with the shop are not available in the list.

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** 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 2** period is selected, enter additionally the time of start and end periods for which the report is to be created using the  button.
 - d. Other options are also available:



4. Specify the data averaging interval in minutes (**4**).
5. Set the **Chart** checkbox to display the report as a chart (**5**).
6. In the **Layout** drop-down list select the report orientation (landscape or portrait) (**6**).
7. Set the **Delete zero values** checkbox in order to not display the open POS terminals in the report if their number equals zero (**7**).
8. Click **Execute** to start the report generation (**8**).

As a result, a summary table or a chart will be displayed containing the number of open POS terminals in accordance with the specified parameters. In the report is displayed as a chart, then the number of open POS terminals will be displayed along the vertical line, and the time corresponding to the number of open POS terminals will be displayed along the horizontal line.



You can export the generated report (see [Exporting of reports](#)).

8.1.1.10 Report by potential violations

Important!

In order to generate a report by potential violations, the **POS-terminal** object should be setup and configured in the *Intellect* (see [The POS-terminal object setup](#)).

In order to display a report by potential violations, do the following:

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

Report System
3.1.0.422

AUTO reports POS reports

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

Report by potential violations

Parameter	Value
Cashiers:	Choose: All, None 2 <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 <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 1
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:
 - **Cancellation of all the goods in the check followed by the addition of positions on the same receipt** - cashier cancels all positions in receipt taking advantage of the fact of customer leaving before the receipt printing. After that cashier adds goods of next customer on the same receipt or closes the receipt with minimal sum. Money get for the purchase from the first customer goes to category of unaccounted money surplus.
 - **Unauthorized reduction in the price of the goods** - cashier enters price manually to reduce price of good (while selling to accomplice).
 - **Unauthorized increase in the price of the goods** - cashier enters price manually to increase price of good. If customer left before receipt printing cashier returns correct price of good and receives unaccounted money surplus.
 - **Intended ignoring some goods** - cashier includes only one good with the smallest price (e.g. package) from all positions of goods. The rest of goods cashier misses without payment for accomplices.
 - **Intended change of how the goods look** - cashier read barcode from another good or from prepared label instead of good which lies on the counter. If price of added position is less than price of purchased good the

cashier can give to accomplice expensive good at a low price. Goods which are to be inspected in this type of violation are determined while inventory.

- **Erroneous double scanning** - cashier erroneously scans the same good two times. Doesn't perform cancellation of extra good. Cheating in accounts is performed.
- **DISABLED: Unintended change of how the goods look ("Enter product code" number needed)** - as a result of error while manual entering the code of good due to the cashier error some good can be sold as another.
- **Ignoring some goods while scanning** - barcode of good is not scanned, but cashier doesn't pay attention to it and starts processing of next good. As a result the good is sold without payment.
- **Errors while canceling the quantity of goods** - cashier makes an error while entering the quantity of goods (e.g. enters 56 instead of 5), cancels this operation and forget to enter the correct number and starts to process the next good. As a result the good is sold without payment.
- **Cash register reset by the cashier** - cashier restarts the cash register when the administrator is absent.
- **Not giving the receipt to the customer** - cashier settles account with customer and doesn't give him a receipt. Receipt is not closed, after the customer leaving cashier can cancel goods, discount goods and performs other actions to make an unaccounted money surplus.
- **Recounting contents of the cash register** - cashier recount money when the administrator is absent. Probably with purpose of taking out unaccounted money surplus.
- **Intended reduction in the number of the goods** - customer leaving before the receipt printing. Cashier reduces quantity of goods (e.g. from 2 items to 1 item) and print receipt. Than take the money surplus for 1 item of goods.
- **Cancellation of the receipt when the administrator is absent** - "cancellation of receipt when the administrator is absent" (Key of administrator is freely moving between cashiers).
- **Intended ignoring some goods using the "Product info" button** - cashier presses the "Product info" button. Scans good, entitles a price. Receives cash. Receipt doesn't print, surplus assumes.

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. If the checkbox is not set, the processing time will not be calculated and displayed in the report.
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. 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.
7. 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**.

8.1.2 Detailed reports

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

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

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

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

8.1.2.1 Viewing a detailed report

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

1. Generate a general report of the required type (see [General reports](#)).

- Click the link in the cell corresponding to a necessary event and a cashier/POS terminal/POS operator (1). To display a detailed report by event for all cashiers/POS terminals/POS operators click the corresponding link in the **Total** cell (2).

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

Status group: [all] Events: [all]

Number	Name	2	1		
		Total	Black C.	★ Smith E.	★ Wick J.
1	Logout Users	881	375	250	256
2	Starting document	12043	1625		10418
3	End of document	12156	1625		10531
4	Adding product to the document	58665	7375		51290
5	Change in the price of goods in the document	2201	375		1826
6	Appointment prices (margins) of the product	16315	2375		13940
7	Calculation	12158	1625		10533
8	Result	12158	1625		10533
9	Payment	12157	1625		10532
10	Printing a document	12156	1625		10531
11	User Authorization	125		125	
12	Removing item from a document	125			125
13	Subtotal	15774			15774

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

POS reports

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

Choose event to see the receipt contents

Events: Removing item from a document / Total															
	Store	POS	Full Name	Receipt number	Code	Name	Price	Quantity	Total	Receipt total	Cash	Change	Status	Comment	History
1	Shop 1	POS terminal 1	Wick J.	2634	5009	Journey Chocolate 100g	35.70	1.00	35.70	188.96	190.00	1.04	Event not processed		
2	Shop 1	POS terminal 1	Wick J.	2634	5009	Journey Chocolate 100g	35.70	1.00	35.70	188.96	190.00	1.04	Event not processed		
3	Shop 1	POS terminal 1	Wick J.	2634	5009	Journey Chocolate 100g	35.70	1.00	35.70	188.96	190.00	1.04	Event not processed		
4	Shop 1	POS terminal 1	Wick J.	2634	5009	Journey Chocolate 100g	35.70	1.00	35.70	188.96	190.00	1.04	Event not processed		
5	Shop 1	POS terminal 1	Wick J.	2634	5009	Journey Chocolate 100g	35.70	1.00	35.70	188.96	190.00	1.04	Event not processed		

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All detailed reports are identical in structure and represent the table. To configure the columns displayed in the table, see [Select columns in detailed reports](#).

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

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

1. Display a detailed report (see [Viewing a detailed report](#)).

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

- Navigation:** POS reports > Report by cashier > General report > Detailed report
- Video Player (3):** Shows a video recording of a cashier's hands at a terminal. The video title is '3 Кассир 3'. The timeline shows the event occurring between 11:32:48 and 11:33:10. Text overlays on the video include:
 - Bread English zern, cum. 200g loaf of Russia 501
 - Discount Amount: 0,26 usd.
 - Discount card: 765800468818
 - Appointment prices (margins) of the product
 - Chewing Gum Wrigley Five watermelon 31g Belarus
 - Discount Amount: 0,4 usd.
 - Discount card: 765800468818
 - Calculation: 84,04 usd.
 - Bottom line: 84,04 usd.
 - Payment
 - Amount of the check: 84,04
 - Cash: 100,04
 - Release Date: 16
 - Printing a document
 - End of the check
- Receipt Details Window (2):** Titled 'Cashier: Wick J./ Receipt number: 2603'. It lists items and their prices:

No.	Data	Date and time
1	Start of the check Check: 2603 Date: 25.05.10 Time: 22:12:06 Cashier: Wick J. ID: 7965	6 February 2020 11:31:59
2	4600631002457 Bread English zern, cum. 200g loaf of Russia 50193 26.4 usd. * 1 = 26.4 usd.	6 February 2020 11:32:06
3	4602547000176 Sour cream - 15% 200g Piskarevskiy m / z LLC 1647 18.4 usd. * 1 = 18.4 usd.	6 February 2020 11:32:13
4	42188889 Chewing Gum Wrigley Five watermelon 31g Belarus 48747 39.9 usd. * 1 = 39.9 usd.	6 February 2020 11:32:20
5	Sub total: 84.7 usd.	6 February 2020 11:32:25
6	Sub total: 84.04 usd.	6 February 2020 11:32:33
Appointment prices (margins) of the product		
7	Bread English zern, cum. 200g loaf of Russia 50193 Discount Amount: 0.26 usd. Discount card: 765800468818	6 February 2020 11:32:39
- Events Table (1):** Titled 'Events: End of document / Wick J.'. It shows a list of events with columns for Date and time, Store, POS, Cashier, Code, Goods, Price, Count, Sum, Status, Comment, and History. The table lists several events for receipt numbers 2603 through 2607, all with a status of 'Event not processed'.

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 implementation](#) 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).

8.1.2.3 Changing the event status and the comment

Attention!

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

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

1. Select the required event in the detailed report (see [Viewing data from the POS terminal and the video of event](#)).

Events: Removing item from a document / Total

	Store	POS	Full Name	Receipt number	Code	Name	Price	Quantity	Total	Receipt total	Cash	Change	Status	Comment	History
1	Shop 1	POS terminal 1	Wick J.	2634	5009	Journey Chocolate 100g	35.70	1.00	35.70	188.96	190.00	1.04	Event not processed		
2	Shop 1	POS terminal 1	Wick J.	2634	5009	Journey Chocolate 100g	35.70	1.00	35.70	188.96	190.00	1.04	Event not processed		
3	Shop 1	POS terminal 1	Wick J.	2634	5009	Journey Chocolate 100g	35.70	1.00	35.70	188.96	190.00	1.04	Event not processed		
4	Shop 1	POS terminal 1	Wick J.	2634	5009	Journey Chocolate 100g	35.70	1.00	35.70	188.96	190.00	1.04	Event not processed		
5	Shop 1	POS terminal 1	Wick J.	2634	5009	Journey Chocolate 100g	35.70	1.00	35.70	188.96	190.00	1.04	Event not processed		

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2. In the lower left part of the event list, click the **Edit selected row** button (1) or double-click the required event. As a result, the **Edit Record** window will open.

Edit Record

Status: Possibly violation 2

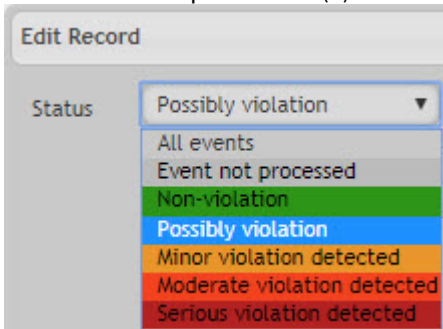
4

Comment

3

5 Submit Cancel

3. In the **Status** drop-down list (2) select the required event status.



Note






The statuses in the list can be changed (see [Setting up the statuses of POS events](#)).

- 4. If necessary, enter a comment in the field (3). Text formatting tools are displayed on the panel (4).
- 5. Click **Submit** (5) to apply the changes.

As a result, the status for the specified event will be changed and the comment will be specified.

Note






To view a comment, click the ellipsis  in the **Comment** column of the corresponding event. As a result, a pop-up window containing the comment text will appear.


Events: Removing item from a document / Total															
	Store	POS	Full Name	Receipt number	Code	Name	Price	Quantity	Total	Receipt total	Cash	Change	Status	Comment	History
1	Shop 1	POS terminal 1	Wick J.	2634	5009	Journey Chocolate 100g	35.70	1.00	35.70	188.96	190.00	1.04	Event not processed	...	
2	Shop 1	POS terminal 1	Wick J.	2634	5009	Journey Chocolate 100g	35.70	1.00	35.70	188.96	190.00	1.04	Event not processed	Suspiciously	
3	Shop 1	POS terminal 1	Wick J.	2634	5009	Journey Chocolate 100g	35.70	1.00	35.70	188.96	190.00	1.04	Possibly violation	...	
4	Shop 1	POS terminal 1	Wick J.	2634	5009	Journey Chocolate 100g	35.70	1.00	35.70	188.96	190.00	1.04	Event not processed	...	
5	Shop 1	POS terminal 1	Wick J.	2634	5009	Journey Chocolate 100g	35.70	1.00	35.70	188.96	190.00	1.04	Event not processed	...	

8.1.2.4 Viewing the history of event status or comment changing

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

- 1. Select the required event in the detailed report (see [Viewing data from the POS terminal and the video of event](#)).

Events: Removing item from a document / Total															
	Store	POS	Full Name	Receipt number	Code	Name	Price	Quantity	Total	Receipt total	Cash	Change	Status	Comment	History
1	Shop 1	POS terminal 1	Wick J.	2634	5009	Journey Chocolate 100g	35.70	1.00	35.70	188.96	190.00	1.04	Event not processed	...	
2	Shop 1	POS terminal 1	Wick J.	2634	5009	Journey Chocolate 100g	35.70	1.00	35.70	188.96	190.00	1.04	Event not processed	...	
3	Shop 1	POS terminal 1	Wick J.	2634	5009	Journey Chocolate 100g	35.70	1.00	35.70	188.96	190.00	1.04	Non-violation	...	
4	Shop 1	POS terminal 1	Wick J.	2634	5009	Journey Chocolate 100g	35.70	1.00	35.70	188.96	190.00	1.04	Event not processed	...	
5	Shop 1	POS terminal 1	Wick J.	2634	5009	Journey Chocolate 100g	35.70	1.00	35.70	188.96	190.00	1.04	Event not processed	...	

- 2. Click the  button in the **History** column of the corresponding event.
- 3. As a result, the **History of event status changing** page will open. The following data is displayed on the page:

- Status name;
- Operator's name;
- Time of status change;
- Comment.

	Status name	Operator's name	Time of status change	Comment
1	Non-violation	rs	4 Feb 2019 16:06:24	No violation
2	Possibly violation	rs	4 Feb 2019 16:01:29	Suspiciously

Note

If the event status or comment has not changed, then the **History of event status changing** page will be empty.

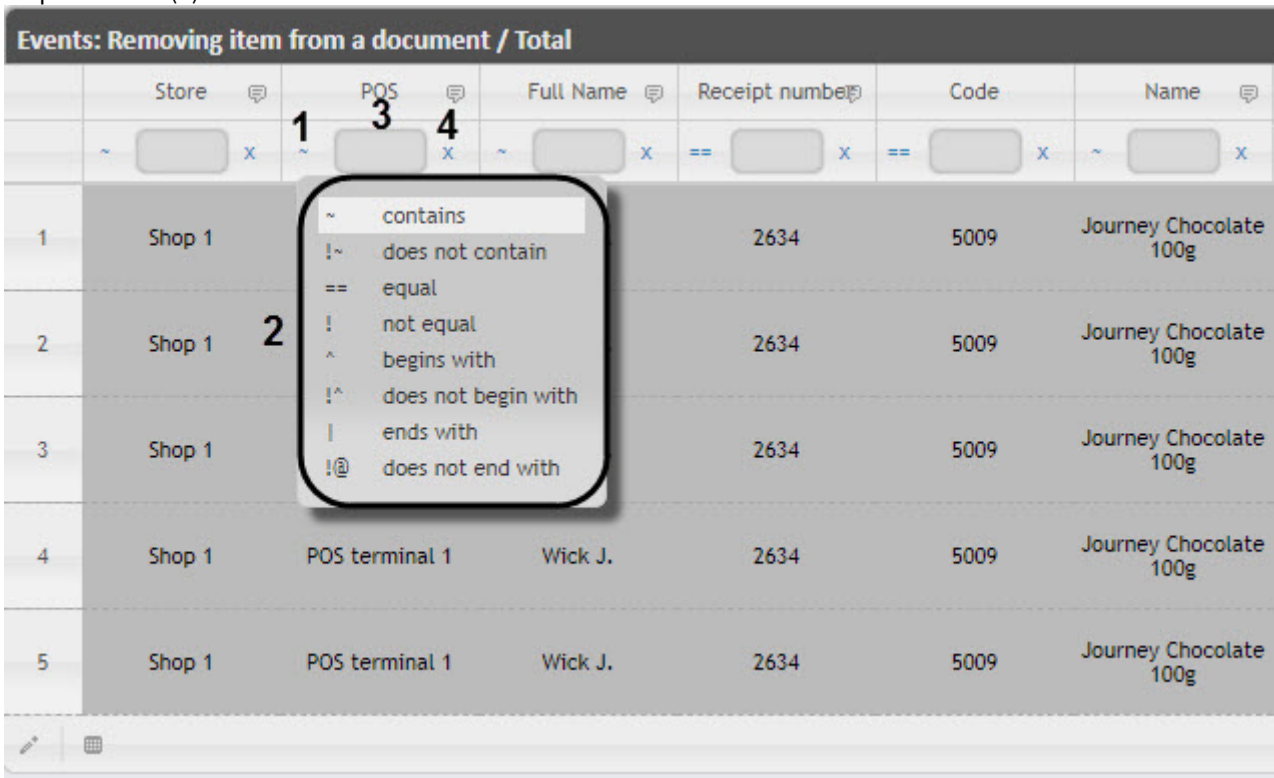
8.1.2.5 Filtering and sorting events in detailed reports

To filter and sort events in the detailed POS report, do the following:

1. Display a detailed report (see [Viewing a detailed report](#)).

	Store	POS	Full Name	Receipt number	Code	Name	Price	Quantity	Total	Receipt total	Cash	Change	Status	Comment	History
1	Shop 1	POS terminal 1	Wick J.	2634	5009	Journey Chocolate 100g	35.70	1.00	35.70	188.96	190.00	1.04	Event not processed		
2	Shop 1	POS terminal 1	Wick J.	2634	5009	Journey Chocolate 100g	35.70	1.00	35.70	188.96	190.00	1.04	Event not processed		
3	Shop 1	POS terminal 1	Wick J.	2634	5009	Journey Chocolate 100g	35.70	1.00	35.70	188.96	190.00	1.04	Event not processed		
4	Shop 1	POS terminal 1	Wick J.	2634	5009	Journey Chocolate 100g	35.70	1.00	35.70	188.96	190.00	1.04	Event not processed		
5	Shop 1	POS terminal 1	Wick J.	2634	5009	Journey Chocolate 100g	35.70	1.00	35.70	188.96	190.00	1.04	Event not processed		

- In the column containing the data required for filtering, click on the icon (1) and select the filtering condition from the drop-down list (2).



Note

For some columns, the filtering is not available.

Note

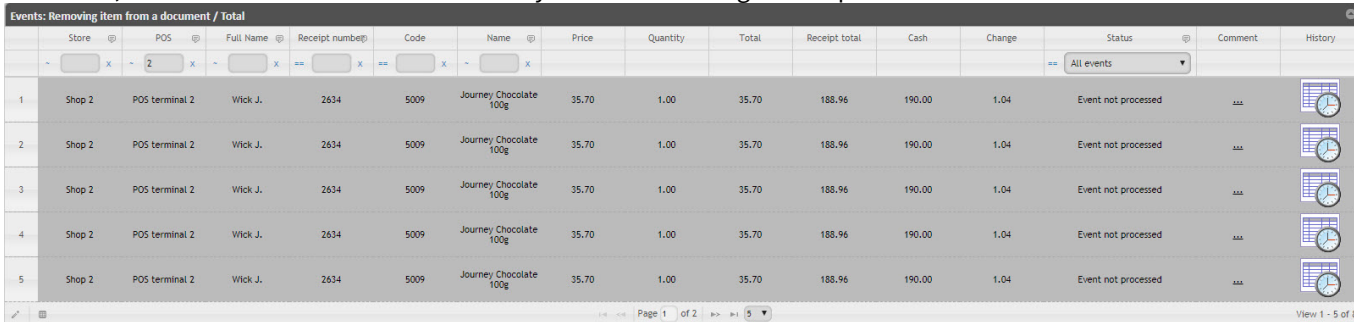
The list of filtering conditions (2) may differ depending on the selected column. For example, for the **Receipt number**, **Code**, and **Status**, columns only 2 conditions are available: **equal** "==" and **not equal** "!=".

- In the field (3) enter the required filter value.



Note


The filter values of the **Status** column depend on the specified statuses in the *Intellect Web Report System*(see [Setting up the statuses of POS events](#)).

- As a result, the list of events will be automatically filtered according to the specified filter.




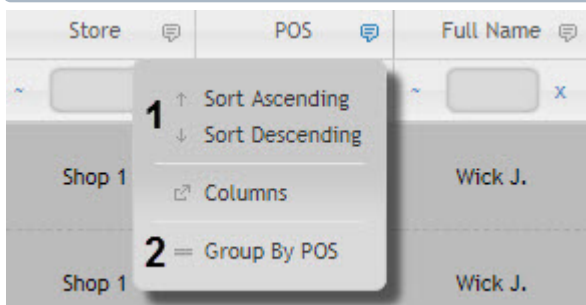
- To reset the filter, click the (4) button.
- To sort the events in the detailed POS report, left-click on the column name.

7. As a result, the event list will be automatically sorted. The icon corresponding to the current sorting condition will appear next to the column name:
-  - Descending.
 -  - Ascending.

Events: Removing item from a document / Total			
	Store 	POS 	Full Name 
	~ <input type="text"/> x	~ <input type="text"/> x	~ <input type="text"/> x
1	Shop 2	POS terminal 2	Wick J.
2	Shop 2	POS terminal 2	Wick J.
3	Shop 2	POS terminal 2	Wick J.
4	Shop 2	POS terminal 2	Wick J.
5	Shop 2	POS terminal 2	Wick J.

Note

The data in some columns can also be sorted by clicking the  button next to the column name. In this case, the ascending and descending sorting (1) and grouping option (2) will be available for the selected column.



The filtering and sorting the events in the detailed reports is complete.

8.1.2.6 Select columns in detailed reports

To select the columns displayed in the detailed POS report, do the following:

1. Display a detailed report (see [Viewing a detailed report](#)).

	Store	POS	Full Name	Receipt number	Code	Name	Price	Quantity	Total	Receipt total	Cash	Change	Status	Comment	History
1	Shop 1	POS terminal 1	Wick J.	2634	5009	Journey Chocolate 100g	35.70	1.00	35.70	188.96	190.00	1.04	Event not processed		
2	Shop 1	POS terminal 1	Wick J.	2634	5009	Journey Chocolate 100g	35.70	1.00	35.70	188.96	190.00	1.04	Event not processed		
3	Shop 1	POS terminal 1	Wick J.	2634	5009	Journey Chocolate 100g	35.70	1.00	35.70	188.96	190.00	1.04	Event not processed		
4	Shop 1	POS terminal 1	Wick J.	2634	5009	Journey Chocolate 100g	35.70	1.00	35.70	188.96	190.00	1.04	Event not processed		
5	Shop 1	POS terminal 1	Wick J.	2634	5009	Journey Chocolate 100g	35.70	1.00	35.70	188.96	190.00	1.04	Event not processed		

2. Click the button (1) in the lower left part of the event list. As a result, the **Select columns** window will open.

3. The active (displayed) columns are displayed in the (2) field.

- To remove a column, click on the icon next to the name of the corresponding column in the field (2).
- To remove all columns, click **Remove all** (4).
- To change the order of the columns, in the field (2) drag the column name up and down to the required position.

4. The inactive (not displayed) columns are displayed in the (3) field.

- To add a column, click on the icon next to the name of the corresponding column in the field (3).
- To add all columns, click **Add all** (4).

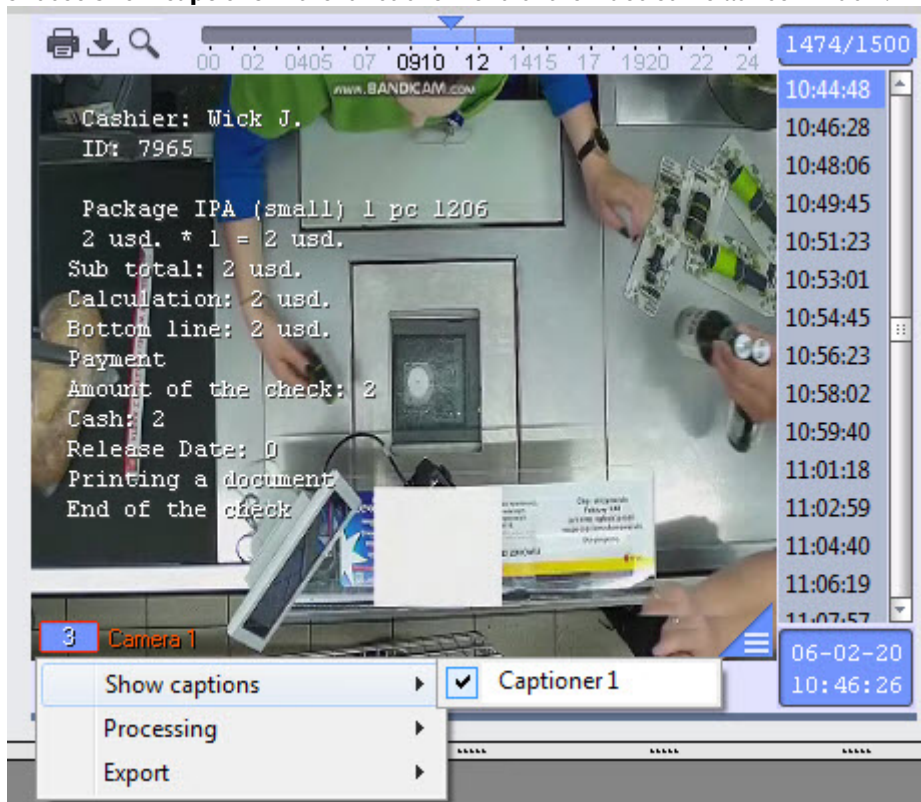
5. To save changes, click **Ok** (6).

Selecting the columns to be displayed in the detailed reports is completed.

8.1.2.7 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.



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

8.1.2.8 Operations with data from POS terminal

1	2	3	4
Print	Receipt contents	Download receipt video	Titles
Cashier: Wick J./ Receipt number: 2644			
	Data	Date and time	
1	Receipt: 2644 Date: 26.05.10 Time 10:41:36 Cashier: Wick J. ID: 7851	25 December 2019 14:56:45	
2	4606979020214 Sausage 1 kg 47909 44.7 RUB. * 1 = 44.7 RUB.	25 December 2019 14:56:52	
3	4607065580070 Bread 0.5 kg 31157 9.3 RUB. * 2 = 18.6 RUB.	25 December 2019 14:56:58	
4	Calculation: 63.3 py6.	25 December 2019 14:57:02	
5	Total: 63.3 py6.	25 December 2019 14:57:06	
6	Payment Amount: 63.3 Cash: 63.3 Change: 0	25 December 2019 14:57:11	
7	Printing a document	25 December 2019 14:57:14	
8	End of document	25 December 2019 14:57:17	

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Time: 11:27:06
Receipt No.: 2598
Cash desk: POS terminal 1
Cashier: Wick J.

Data	Time
Receipt: 2644\n Date: 26.05.10\n Time: 10:41:36\n Cashier: Wick J.\n ID: 7851	25 December 10:56:45
4606979020214\n Sausage 1 kg 47909\n 44.7 RUB. * 1 = 44.7 RUB.	25 December 10:56:52
4607065580070\n Bread 0.5 kg 31157\n 9.3 RUB. * 2 = 18.6 RUB.	25 December 10:56:58
Calculation: 63.3 py6.	25 December 10:57:02
Total: 63.3 py6.	25 December 10:57:06
Payment\n Amount: 63.3\n Cash: 63.3\n Change: 0	25 December 10:57:11
Printing a document	25 December 10:57:14
End of document	25 December 10:57:17

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Receipt No. 2644
 Cash desk: POS-terminal 1
 Cashier: Wick J.

Goods	Amount (Items/Kg)	Price
Sausage 1 kg	1	44.7
Bread 0.5 kg	2	18.6
TOTAL		63.3

8.1.3 Sweethearting monitor

Important!

The **Sweethearting** report is generated automatically based on the data from the **Sweethearting detection module**, which is part of the *Intellect Detector Pack* (see [Configuring the «Sweethearting detection» module](#) for details).

The **Sweethearting** detailed report enables real-time monitoring of goods scanning events by cashiers in order to prevent intentional theft by carrying goods past the barcode scanner (so-called *sweethearting*).

Open the **Sweethearting** report (see [Selecting a type of general POS report](#)). The interface of the **Sweethearting monitor** is shown in the picture below.

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

- 1:** Filter dropdown menu set to '[all]'.
- 2:** Date selection field set to '6 February 20'.
- 3:** 'Apply filter' button.
- 4:** Main table of POS reports with columns: Date, POS terminal, Cashier, and Status.
- 5:** 'Clear events' button.
- 6:** Video feed showing a cashier at a terminal with overlaid event details.
- 7:** 'Save' button.
- 8:** Dropdown menu showing 'Event not processed'.
- 9:** Text area displaying 'check id: 12503'.

	Date	POS terminal	Cashier	Status
1	6 Feb 10:39:24	POS terminal 1	Wick J.	Event not processed
1	6 Feb 10:39:24	POS terminal 1	Wick J.	Event not processed
2	6 Feb 10:39:12	POS terminal 1	Wick J.	Event not processed
3	6 Feb 10:39:06	POS terminal 1	Wick J.	Event not processed
4	6 Feb 10:38:57	POS terminal 1	Wick J.	Event not processed
5	6 Feb 10:38:54	POS terminal 1	Wick J.	Event not processed
6	6 Feb 10:38:25	POS terminal 1	Wick J.	Event not processed
7	6 Feb 10:38:21	POS terminal 1	Wick J.	Event not processed
8	6 Feb 10:30:48	POS terminal 1	Wick J.	Event not processed
9	6 Feb 10:30:21	POS terminal 1	Wick J.	Event not processed
10	6 Feb 10:30:15	POS terminal 1	Wick J.	Event not processed
11	6 Feb 10:30:07	POS terminal 1	Wick J.	Event not processed
12	6 Feb 10:29:55	POS terminal 1	Wick J.	Event not processed
13	6 Feb 10:29:49	POS terminal 1	Wick J.	Event not processed
14	6 Feb 10:29:06	POS terminal 1	Wick J.	Event not processed
15	6 Feb 10:29:03	POS terminal 1	Wick J.	Event not processed
16	6 Feb 10:28:17	POS terminal 1	Wick J.	Event not processed
17	6 Feb 10:28:14	POS terminal 1	Wick J.	Event not processed
18	6 Feb 10:28:06	POS terminal 1	Wick J.	Event not processed
19	6 Feb 10:27:54	POS terminal 1	Wick J.	Event not processed
20	6 Feb 10:27:48	POS terminal 1	Wick J.	Event not processed

Important!

Events appear in the report only if there is no **Add goods** event at the same second as the event from the **Sweetherting detection** object of POS-Intellect.

Note

It is possible to enable sound notification about new events (see [Setting up the Sweetherting report](#)).

The goods scanning events are loaded into the table (1), ranging from the newest to the oldest. Each of the events is provided with the following summary information:

- **Date** - the date and time at which the goods were recognized and identified at the cash register;
- **POS terminal** - the POS-terminal on which the goods were recognized;
- **Cashier** - the full name of the cashier, who was supposed to make a scan;
- **Status** - the status of the event, which is determined by the operator of the Web Report System, working with the **Sweetherting** monitor.

In order to load events into the table, click the **Show new events** link in the upper-right part of the table (2). Similarly, you can optionally update the event table.

In order to clear the event table, click the **Clear events** link in the upper-left part of the table (3).

In order to view the details of an event and a video image, select the event in the list by clicking on the corresponding row in the table. After that, the following elements will become available in the right part of the screen:

1. The video of the event with the indication of the time when the event was recorded and the possibility of viewing in the archive mode (4).

Note

Working with video surveillance window in the archive mode is given in details in [Intellect software package. Operator's guide.](#)

2. The dropdown list for selecting the status of the event (5). By default, all events have the **Event not processed (by default)** status. Having examined the video, the operator of the Web Report System, working with the **Sweethearing** monitor, can manually assign the event one of the following statuses:
 - a. Non-violation
 - b. Possibly violation
 - c. Minor violation detected
 - d. Moderate violation detected
 - e. Serious violation detected
3. The text field for operator comment (6). If necessary, the operator can leave his comment to the event (no more than five lines).
4. The field for program log output, unavailable for editing (7).
5. The **Save** button to save the event changes (new status and comment) (8).

The **Sweethearing** report is unavailable for export and can only be viewed in the monitoring mode. It is possible to export the video image from the event processing window, as described in the [Export and print out](#) section.

Note

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

8.2 Working with Time and Attendance reports

Working with Time and Attendance reports consists of three stages:

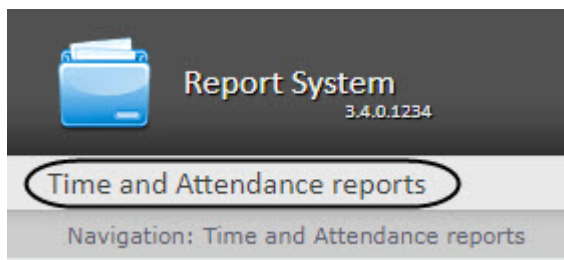
1. Selecting a type of report.
2. Creating a report.
3. Viewing a report.

Attention!

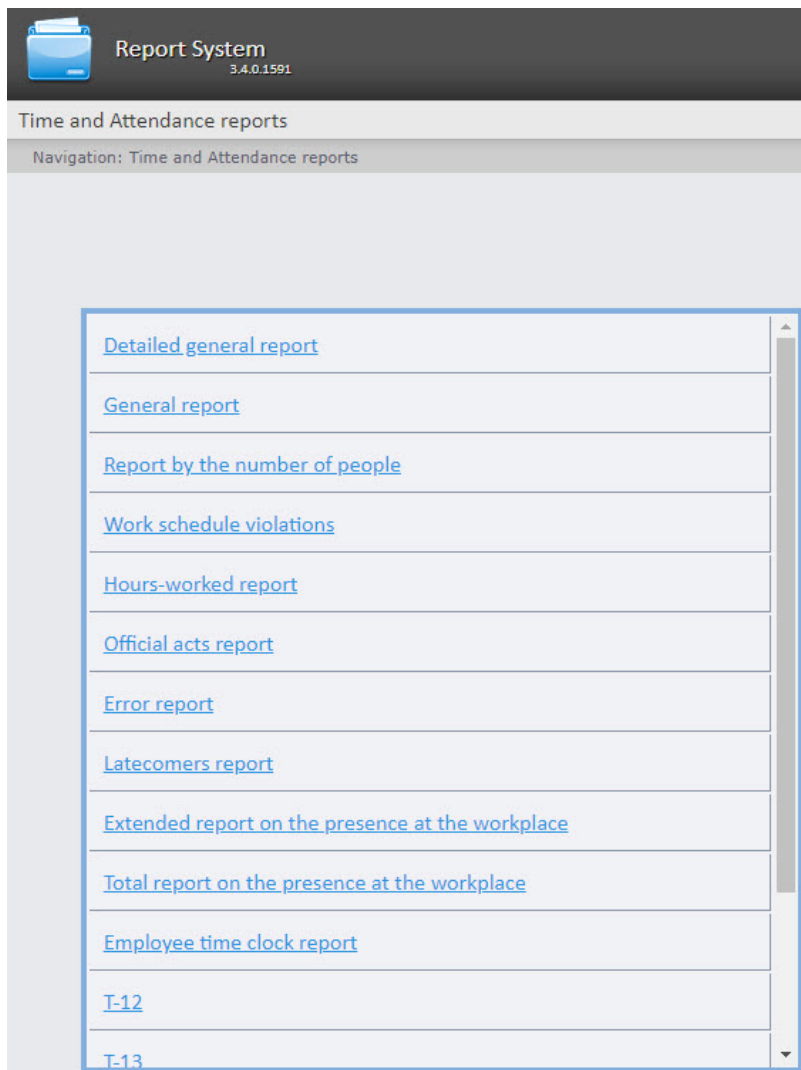
It's required to configure user access to departments for working with Time and Attendance reports (see the [Setting up the Time and Attendance reports](#) section).

8.2.1 Selecting a type of Time and Attendance report

In order to select a type of Time and Attendance report click on **Time and Attendance reports** link in *Report System* menu.

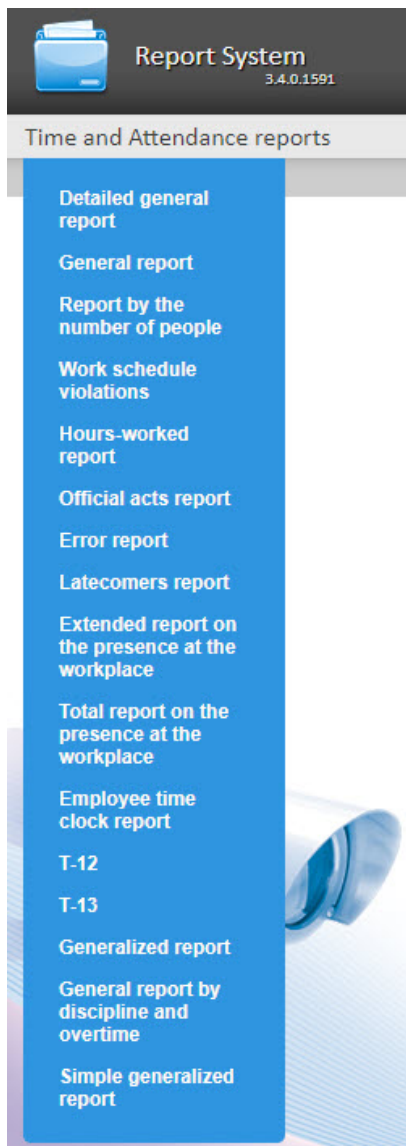


As a result the list of available Time and Attendance reports is displayed. For switching to the required report click the corresponding link.



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.



8.2.2 Creating a Time and Attendance report

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

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

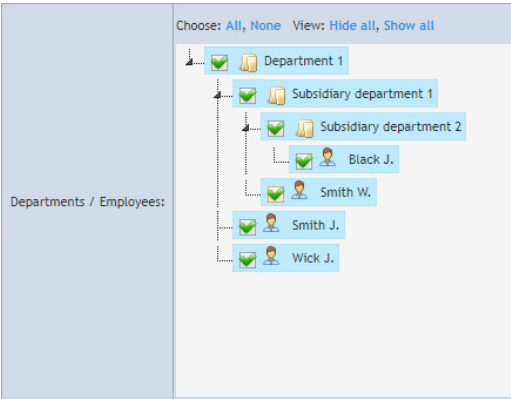

Execute 2

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 at workplace report Extended report on the presence at the workplace Report by person quantity
Period: <input type="text" value="Current date and time"/>	Used for setting the period by which the report is displayed	Used in all reports
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 at workplace report
Short-form report: <input checked="" type="checkbox"/>	When the checkbox is checked then some report fields are hidden.	<ul style="list-style-type: none"> Detailed general report General report
Add a Comment column: <input type="checkbox"/>	When the checkbox is set, the Comment column will be displayed in the report, which is used to manually add a comment to the printed report.	<ul style="list-style-type: none"> General report Detailed general report
Working schedule: <input type="text" value="[all]"/>	Used for selecting the work schedule of employees whose information is to be displayed in the report. You can select one of the available schedule or all the work schedules at once.	<ul style="list-style-type: none"> Detailed general report General report

Parameter	Description	Used in reports
	<p>Used for selecting the department or employee whose information is to be displayed in the report. The structure of the departments in the reports corresponds to the structure of the departments in the Time and Attendance module. You can select all departments at once, or single departments or employees separately, both parent and child.</p>	<ul style="list-style-type: none"> • Work schedule violations • Hours-worked report • Official acts report • Error report • Latecomers report • Presence at workplace report • Extended report on the presence at the workplace • Total report on the presence at the workplace • Employee time clock report • General report by discipline and overtime • Simple generalized report • General report • Report by person quantity
<p>Department / subdivision: <input type="text" value="Department 1"/></p>	<p>Used for selecting the department or subdivision which information is to be displayed in the report. You can select only the whole department/subdivision.</p>	<ul style="list-style-type: none"> • Generalized report • T-12 • T-13
<p>Employee: <input type="text" value="[all]"/></p>	<p>Used to select an employee whose information is to be displayed in the report from a previously selected department/subdivision. You can select one employee or all employees of the corresponding department/subdivision at once.</p>	<ul style="list-style-type: none"> • Generalized report
<p>Expanded: <input type="checkbox"/></p>	<p>When the checkbox is set, then the additional information is displayed in the employee report.</p>	<ul style="list-style-type: none"> • Employee time clock report
<p>Only truants: <input type="checkbox"/></p>	<p>When the checkbox is set, then only those employees who were not present at their workplace will be displayed in the report.</p>	<ul style="list-style-type: none"> • Hours-worked report
<p>Time: <input type="text" value="10:00"/> </p>	<p>Used to set the exact timestamp (hours, minutes) the information of which is to be displayed in the report.</p>	<ul style="list-style-type: none"> • Report by person quantity
<p>Personnel number: <input type="text"/></p>	<p>Used to filter the data by the employee's personnel number and display this information in the report.</p>	<ul style="list-style-type: none"> • Extended report on the presence at the workplace • Total report on the presence at the workplace <p><i>Note. To access these reports, it is necessary to configure them (see Configuring the Extended report on the presence at the workplace and Total report on the presence at the workplace).</i></p>
<p>Agreement #: <input type="text"/></p>	<p>Used to filter the data by the agreement number and display this information in the report.</p>	
<p>Name: <input type="text"/></p>	<p>Used to filter the data by the employee's name and display this information in the report.</p>	
<p>Surname: <input type="text"/></p>	<p>Used to filter the data by the employee's surname and display this information in the report.</p>	

Parameter	Description	Used in reports
Patronymic: <input type="text"/>	Used to filter the data by the employee's patronymic name and display this information in the report.	
Position: <input type="text" value="[all]"/>	Used to filter the data by the employee's job position and display this information in the report.	
Activity area: <input type="text" value="[all]"/>	Used to filter the data by the employee's job activity area and display this information in the report.	
Category: <input type="text" value="[all]"/>	Used to filter the data by the employee's category and display this information in the report.	
Speciality: <input type="text" value="[all]"/>	Used to filter the data by the employee's speciality and display this information in the report.	
Time of coming to territory : from <input type="text" value="00:00:00"/> to <input type="text" value="23:59:59"/>	Used to filter the data by the employee's time of arrival and display this information in the report.	
Time of leaving territory : from <input type="text" value="00:00:00"/> to <input type="text" value="23:59:59"/>	Used to filter the data by the employee's time of leaving and display this information in the report.	
Period of presence on territory : <input type="text" value="More"/> <input type="text" value="00:00:00"/>	Used to filter the data by the time employee's spent on site and display this information in the report.	
Group by department: <input checked="" type="checkbox"/>	When the checkbox is set, then the information is grouped by department.	
Sum up each employee's time : <input checked="" type="checkbox"/>	When the checkbox is set, then the total time of all employees' presence on site is displayed in the report.	
Choose report appearance: <input type="text" value="Standard"/>	Used to select the appearance of the report: "Standard" or "With page header"	<ul style="list-style-type: none"> • Presence at workplace report

Click **Execute (2)**.

As a result a report is created and displayed (see [Viewing a Time and Attendance report](#)).

8.2.3 Viewing a Time and Attendance report

8.2.3.1 Time and Attendance report toolbar

The toolbar on the top of a page is used for report navigating, scaling the displayed page and Time and Attendance report exporting.




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).

8.2.3.2 Detailed general report

A **Detailed general report** contains the information about the total number of people in the department, with the specified work schedule, the number of department's employees in the selected region at the time of the report creation or on the specified date and time.

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

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Detailed summary report (statistics)
Date: 5 July 2017 Time: 15:00:00

Selected region: Street 1 Working schedule: [all]

Department	The number of people in the department	The number in the area when the report is made in units	Comment
Department 4	40	11	
Bailey Joshua		-	
Bell Daniel		-	
Brown Emily		-	
Cook Ethan		+	
Cooper Liam		+	
Davis Michael		-	
Edwards Joseph		-	
Foster Jesse Executives		-	
Gray Mason Executives		+	
Hughes Sean		+	

The report fields are described in the table.

Field name	Description
Department	The name of the department and the full names of its employees

Field name	Description
The number of people in the department	Total number of people in the department
The number in the area when the report is made in units	The number of people present in the selected region at the time of the report creation or on the specified day and time
Comment	Empty field for manual input of comments


Примечание

The employees that are present in the area are marked with "+", those who are absent are marked with "-".

In the short report, the employees who are not present in the selected region are hidden:

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

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Detailed summary report (statistics)

Date: 5 July 2017 Time: 13:43:00

Selected region: Street 1 Working schedule: [all]


Department	The number of people in the department	The number in the area when the report is made in units	Comment
Departmenten 4	40	11	
Bailey Joshua		+	
Bell Daniel		+	
Brown Emily		+	
Cook Ethan		+	
Cooper Liam		+	
Davis Michael		+	
Edwards Joseph		+	
Foster Jesse Executives		+	
Gray Mason Executives		+	
Hughes Sean		+	
James Jack		+	

8.2.3.3 General report

A **General report** contains the information about the total number of people in the departments, with the specified work schedule, the number of department's employees in the selected region, and the percentage of the employees present at the workplace at the time of the report creation or on the specified date and time.

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

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Summary report (statistics)

Date: 5 July 2017 Time: 13:16:00

Selected region: Street 1 Working schedule: [all]

#	Department	The number of people in the department	The number in the area when the report is made in units	Comment
1	Departmen 4	40	11	
2	Department 1	411	274	
3	Department 2	6	0	
4	Department 3	7	0	
Total:		464	285	-

The report fields are described in the table.


Field name	Description
Department	The name of the department
The number of people in the department	Total number of people in the department
The number in the area when the report is made in units	The number of people present in the selected region at the time of the report creation or on the specified day and time
Comment	Empty field for manual input of comments

The **Total** line indicates the total number of people in all departments and the total number of people present in the selected region

In the short General report, the departments with no employees present in the selected region are hidden:

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

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Summary report (statistics)

Date: 5 July 2017 Time: 13:16:00

Selected region: Street 1 Working schedule: [all]


#	Department	The number of people in the department	The number in the area when the report is made in units	Comment
1	Departmen 4	40	11	
2	Department 1	411	274	
Total:		451	285	-

8.2.3.4 Report by person quantity

The **Report by person quantity** contains the information on the total number of employees in the departments who were present in the selected region within a specified period of time.

Navigation: [Time and Attendance reports](#) > [Worktime/CountPerson](#) > Result

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Report by person quantity

Period: Date: from 23 September 2019 00:00:00 to 29 September 2019 23:59:59

Region: Region 1

No	List:	23 September	24 September	25 September	26 September	27 September	28 September	29 September
1	Departmenten 1	4	2	7	9	9	10	1
2	Department 2	35	25	25	22	29	0	0
3	Department 3	144	85	85	86	106	87	32
Total:		183	112	117	117	144	97	33

The report fields are described in the table.

Field name	Description
List	Department Name
Date and month	The number of people present in the selected region on the corresponding day
The Total line indicates the total number of people in all departments who were present in the selected region for each day of the specified time period	

Note

The maximum period of time for which the report can be displayed is one week.

8.2.3.5 Work schedule violations

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

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

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Violating working regulations

Date: from 5 July to 5 July

Department: Department_6

Bailey Joshua

Working schedule:

Date; hours to scheduled completion	Actual date and time	Violation type	Duration	Code
5 July 09:00:00	5 July 17:41	Leaving earlier	00:18:10	
Total by employee		Amount	Duration	
Coming late		0	00:00:00	
Time of absence		0	00:00:00	
Leaving earlier		1	00:18:10	
Absence		0	00:00:00	
Underworking		0	00:00:00	

Bell Daniel

Working schedule:

Date; hours to scheduled completion	Actual date and time	Violation type	Duration	Code
5 July 09:00:00	5 July 12:47	Leaving earlier	05:12:11	
Total by employee		Amount	Duration	
Coming late		0	00:00:00	
Time of absence		0	00:00:00	
Leaving earlier		1	05:12:11	
Absence		0	00:00:00	
Underworking		0	00:00:00	

Total by employee	Amount	Duration
Coming late	0	00:00:00
Time of absence	0	00:00:00
Leaving earlier	0	00:00:00
Absence	1	09:00:00
Underworking	0	00:00:00

Total by department	Amount	Duration
Coming late	4	11:12:18
Time of absence	2	00:14:40
Leaving earlier	68	118:15:43
Absence	344	3096:00:00
Underworking	0	00:00:00

Total by report	Amount	Duration
Coming late	4	11:12:18
Time of absence	2	00:14:40
Leaving earlier	68	118:15:43
Absence	344	3096:00:00
Underworking	0	00:00:00

Report fields are described in the table.

Field name	Description
Date; hours to scheduled completion	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
Code	Violation code

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

8.2.3.6 Hours-worked report

An **Hours-worked report** is a table that contains the information on hours worked by employees of the selected department with details for each employee for a specified period of time.

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



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Hours worked

Date: from 05.07.2017 to 05.07.2017

Department: Department_3

Full Name	Time of presence	Working time	Time of absence	Night time	Overtime
Brown Emily Schedule 1	00:00:00	00:00:00	09:00:00	00:00:00	00:00:00
Smith John Schedule 1	00:00:00	00:00:00	09:00:00	00:00:00	00:00:00
Андреев Андрей Андреевич Schedule 1	00:00:00	00:00:00	09:00:00	00:00:00	00:00:00
Админов Админ Админович Schedule 1	00:00:00	00:00:00	09:00:00	00:00:00	00:00:00
Parker Logan Schedule 1	00:00:00	00:00:00	09:00:00	00:00:00	00:00:00
Петров Петр Петрович Schedule 1	00:00:00	00:00:00	09:00:00	00:00:00	00:00:00
Total by department:	00:00:00	00:00:00	54:00:00	00:00:00	00:00:00

Total by report:	00:00:00	00:00:00	54:00:00	00:00:00	00:00:00
-------------------------	-----------------	-----------------	-----------------	-----------------	-----------------

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 Total by department line displays the sum values by each department's employee.	

Field name	Description
The Total by report line displays the sum values by each department.	

8.2.3.7 Official acts report

The **Official acts report** contains the information about the vouchers and overtime documents that were drawn by employees in the specified time period.

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

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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.

8.2.3.8 Error report

An **Error report** contains the information about the employees' incorrect passes/exits to/from the region within the specified time period.

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

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Error report

Date: from 01.07.2017 to 31.07.2017

Smith John		Department: Department_8		
Date	Arrival time	Passage point	Region	Error type
01.07.2017	17:27:21	NC5K N-1	Factory	Exit with no entrance
19.07.2017	07:21:05	NC5K N-7	Factory	Entrance with no exit
Total by employee		Amount	Entrance with no exit	Exit with no entrance
During interval from 01.07.2017 to 31.07.2017		2	1	1

Department: Department_8				
Total by department		Amount	Entrance with no exit	Exit with no entrance
During interval from 01.07.2017 to 31.07.2017		2	1	1

Total by report		Amount	Entrance with no exit	Exit with no entrance
During interval from 01.07.2017 to 31.07.2017		2	1	1

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

Field name	Description
Error type	Type of a registered error

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

8.2.3.9 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.

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

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Late comings/Underworkings report

Period: 1 July 2017 - 31 July 2017

Department: **Department 1**

Personnel number	Full Name	Time of coming late/underworking						
		1 July	2 July	3 July	4 July	5 July	6 July	7 July
7151	Bailey Joshua			0:00:00 / 1:21:21	0:00:00 / 1:11:10	0:00:00 / 0:18:10	0:00:00 / 1:25:08	0:00:00 / 0:38:20
		8 July	9 July	10 July	11 July	12 July	13 July	14 July
				0:00:00 / 1:19:23	0:00:00 / 1:33:38	0:00:00 / 1:18:12	0:00:00 / 1:28:53	0:00:00 / 0:00:30
		15 July	16 July	17 July	18 July	19 July	20 July	21 July
				0:00:00 / 1:12:53	0:00:00 / 0:36:10	0:00:00 / 0:36:37	0:00:00 / 1:01:43	0:00:00 / 0:00:00
		22 July	23 July	24 July	25 July	26 July	27 July	28 July
				0:00:00 / 0:53:56	0:00:00 / 1:21:17	0:00:00 / 0:51:55	0:00:00 / 0:57:00	No exit
29 July	30 July	31 July						
		0:00:00 / 0:10:45						
1650	Bell Daniel	1 July	2 July	3 July	4 July	5 July	6 July	7 July
				0:00:00 / 0:50:12	0:00:00 / 0:53:46	0:00:00 / 5:12:11	0:00:00 / 0:51:50	0:00:00 / 0:16:44
		8 July	9 July	10 July	11 July	12 July	13 July	14 July
				0:00:00 / 0:52:14	0:00:00 / 0:54:48	0:00:00 / 0:54:21	0:00:00 / 0:54:08	0:00:00 / 0:19:07
		15 July	16 July	17 July	18 July	19 July	20 July	21 July
				0:00:00 / 0:53:23	0:00:00 / 0:53:58	0:00:00 / 0:53:23	0:00:00 / 0:53:15	0:00:00 / 0:11:17
		ReportSystem v3.4.0.1232						

The report fields are described in the table.

Field name	Description
Personnel number	Employee personnel number
Full name	Employee full name
Time of coming late/underworking	Date and information about the employee’s latecoming or underworking for each day of the specified period

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


8.2.3.10 Presence at workplace report

The **Presence at workplace report** contains the information about the times when the employee left the selected region during the day, and how much time the employee spent in the selected region within the specified time period.

The report example with the **Standard** appearance.

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

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Presence at workplace
Date: from 9 January 2020 00:00:00 to 9 January 2020 23:59:59

Levis Will Department: Department 1
Working schedule: Schedule 1

Entry to the area	Exit from the area	Region	Entrance point	Exit point	Presence in the branch office, hours
13 Nov 08:31	16 Jan 21:31	Street	Reader "ARC" 1.1	Reader "ARC" 1.1	1548:59:47
Total by employee:					1548:59:47


Wick John Department: Department 1
Working schedule: Schedule 1

Entry to the area	Exit from the area	Region	Entrance point	Exit point	Presence in the branch office, hours
9 Jan 18:10	9 Jan 18:40	Street	Reader "ARC" 1.1	Reader "ARC" 1.1	0:30:07
9 Jan 10:33	9 Jan 18:10	Room	Reader "ARC" 1.2	Reader "ARC" 1.2	7:36:32
Total by employee:					8:06:39

The report example with the **With page header** appearance.

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


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Presence at workplace

Date: from 9 January 2020 00:00:00 to 9 January 2020 23:59:59

Area: all Department: Department 1

	Levis Will Personnel number: 111 Position: Chief /	Working schedule: Schedule 1 Pass card validity period: from not specified to 3 June 2020		
Entry to the area	Exit from the area	Entrance point	Exit point	Presence in the branch office, hours
13 Nov 08:31	16 Jan 21:31	Entrance (Reader "ARC" 1.1)	Exit (Reader "ARC" 1.1)	1548:59:47
Total by employee:				1548:59:47

Area: all Department: Department 1

	Wick John Personnel number: 65 Position: Manager /	Working schedule: Schedule 1 Pass card validity period: from 10 May 2018 to 3 May 2020		
Entry to the area	Exit from the area	Entrance point	Exit point	Presence in the branch office, hours
9 Jan 18:10	9 Jan 18:40	Entrance (Reader "ARC" 1.1)	Exit (Reader "ARC" 1.1)	0:30:07
9 Jan 10:33	9 Jan 18:10	Entrance (Reader "ARC" 1.2)	Exit (Reader "ARC" 1.2)	7:36:32
Total by employee:				8:06:39

Note

In order for the photos of employees to be displayed, it is necessary to configure the report (see [Setting up the Presence at workplace report](#)).

Report fields are described in the table.

Field name	Description
Entry to the area	Date and time of an employee's entrance to the region
Exit from the area	Date and time an employee's exit from the region
Entrance point	Name of an entrance point to the region
Exit point	Name of an exit point from the region
Presence in the branch office, hours	The time the employee spent in the selected region

Field name	Description
The Total by employee line displays the total time spent by the employee in the region for the selected time period.	

8.2.3.11 Extended report on the presence at the workplace

Note

This report replaces the **Presence at workplace report** (see [Presence at workplace report](#) and [Configuring the Extended report on the presence at the workplace](#) and [Total report on the presence at the workplace](#)).

An **Extended report on the presence at the workplace** contains the information about the times when the employee left the selected region during the day, and how much time the employee spent in the selected region within the specified period.

Time and Attendance reports

Navigation: [Time and Attendance reports](#) > [Extended report on the presence at the workplace](#) > Result

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Presence at workplace

Date: from 20.07.2017 to 30.07.2017

Region: Street

Department: Department_8 Working schedule:

Arrived	Left	Arrived-Left	Time of presence	Personnel number	Surname	Name	Patronymic	Post	Category	Course
22 July 19:58	26 July 7:20	Saturday 19:58 - Wednesday 7:20,	83:22:11	590	Lewis	Christian		Manager	Worker	Direction of management activities
26 July 19:57	27 July 7:27	Wednesday 19:57 - Thursday 7:27,	11:30:20	590	Lewis	Christian		Manager	Worker	Direction of management activities
Total, hour:										94:52:31
Hour/Day:										23:26

Department: Department_8 Working schedule:

Arrived	Left	Arrived-Left	Time of presence	Personnel number	Surname	Name	Patronymic	Post	Category	Course
20 July 12:30	20 July 15:38	Thursday 12:30 - Thursday 15:38,	3:08:15		Wilson	John		Driver	Worker	Direction of automotive activities
Total, hour:										3:08:15
Hour/Day:										3:08

Report fields are described in the table.

Field name	Description
Arrived	Date and time of an employee's arrival to a region
Left	Date and time of an employee's leaving a region
Arrived-Left	Date and time of an employee's arrival and leaving
Time of presence	Difference between the passage and leaving time

Field name	Description
Personnel number	Employee's personnel number
Surname	Employee's surname
Name	Employee's name
Patronymic	Employee's patronymic name
Post	Employee's job title
Category	Employee's job category
Course	Employee's job description
The Total, hour line displays the total time spent by the employee in the region for the selected time period.	
The Hour/Day line displays how many hours a day the employee was in the region relative to the total time spent in the region.	


8.2.3.12 Total report on the presence at the workplace

Note
 To access this report, it is necessary to configure it (see [Configuring the Extended report on the presence at the workplace](#) and [Total report on the presence at the workplace](#)).

The **Total report on the presence at the workplace** contains the information about the time the employee spent at the workplace within the specified time period.

Navigation: [Time and Attendance reports](#) > [Total report on the presence at the workplace](#) > Result

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Total report on the presence at the workplace

Date: from 1 July 2017 to 31 July 2017

Department: Department 1

Personnel Number	Surname	Name	Patronymic	Post	Category	Course	The time at the branch for the specified interval		Average time at the branch for the specified interval	
							Hour	Minute	Hour	Minute
4024	Gray	Mason		Manager	Executives	Direction of management	92	14	9	13
2046	Parker	Logan		Instructor	Executives	Direction of management	126	21	9	1
1548	Peterson	Gavin		Instructor	Executives	Direction of management	37	43	9	25
2052	Rivera	Austin		Manager	Executives	Direction of management	191	24	9	34
7177	Smith	John		Instructor	Executives	Direction of management	91	6	18	13
5117	Smith	John		Manager	Executives	Direction of management	44	11	14	43

Report fields are described in the table.


Field name	Description
Personnel Number	Employee's personnel number
Surname	Employee's surname
Name	Employee's name
Patronymic	Employee's patronymic name
Post	Employee's job title
Category	Employee's job category
Course	Employee's job description
The time at the branch for the specified interval	Total time spent by the employee at the branch for the specified time interval
Average time at the branch for the specified interval	Average time spent by the employee at the branch for the specified time interval

8.2.3.13 Employee time clock report

The **Employee time clock report** contains the information about employee's arrival and leaving for every day of the specified time period.

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

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Arrival-Leaving report

Period: 1 July 2017 - 31 July 2017

Department: **Department 1**

Personnel number	Full Name	Position	Time of arrival/leaving						
			1 July	2 July	3 July	4 July	5 July	6 July	7 July
7151	Bailey Joshua	Engineer			07:35:33 / 16:38:39	07:39:52 / 16:48:50	07:38:08 / 17:41:50	07:39:37 / 16:34:52	07:39:01 / 16:21:40
			8 July	9 July	10 July	11 July	12 July	13 July	14 July
					07:42:06 / 16:40:37	07:39:31 / 16:26:22	07:40:03 / 16:41:48	07:41:51 / 16:31:07	07:40:13 / 16:59:30
			15 July	16 July	17 July	18 July	19 July	20 July	21 July
					07:39:02 / 16:47:07	07:39:02 / 17:23:50	07:39:19 / 17:23:23	07:27:12 / 16:58:17	07:38:46 / 18:08:54
			22 July	23 July	24 July	25 July	26 July	27 July	28 July
					07:39:26 / 17:06:04	07:31:28 / 16:38:43	07:39:38 / 17:08:05	07:41:42 / 17:03:00	
29 July	30 July	31 July							
		07:39:32 / 17:49:15							
1650	Bell Daniel	Cleaner	1 July	2 July	3 July	4 July	5 July	6 July	7 July
					07:38:30 / 17:09:48	07:39:31 / 17:06:14	07:34:21 / 12:47:49	07:39:29 / 17:08:10	07:39:03 / 16:43:16
			8 July	9 July	10 July	11 July	12 July	13 July	14 July
					07:31:39 / 17:07:46	07:31:42 / 17:05:12	07:34:21 / 17:05:39	07:31:01 / 17:05:52	07:33:39 / 16:40:53
			15 July	16 July	17 July	18 July	19 July	20 July	21 July
					07:38:45 / 17:06:37	07:39:02 / 17:06:02	07:34:14 / 17:06:37	07:31:12 / 17:06:45	07:31:08 / 16:48:43

ReportSystem v3.4.0.1232 1

The report fields are described in the table.

Field name	Description
Personnel number	Employee personnel number
Full name	Employee full name
Position	Employee's position
Time of arrival/leaving	Date and information on the arrival and departure of the employee for each day of the specified period


Note.

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

If the **Expanded** checkbox was set when generating the report, then the **Employee time clock report** will be displayed as follows:

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

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Arrival-Leaving report

Period: 1 July 2017 - 31 July 2017

Department: **Department 1**

Personnel number	Full Name	Position	Time of arrival/leaving																
			Presence in the branch office, hours							Attendance in working region									
			1 July	2 July	3 July	4 July	5 July	6 July	7 July	8 July	9 July	10 July	11 July	12 July	13 July	14 July			
7151	Bailey Joshua	Engineer			07:35 / 16:38	07:39 / 16:48	07:38 / 17:41	07:39 / 16:34	07:39 / 16:21			9:03 / 9:03	9:08 / 9:08	10:03 / 10:03	8:55 / 8:55	8:42 / 8:42			
										8 July	9 July	10 July	11 July	12 July	13 July	14 July			
					07:42 / 16:40	07:39 / 16:26	07:40 / 16:41	07:41 / 16:31	07:40 / 16:59			8:58 / 8:58	8:46 / 8:46	9:01 / 9:01	8:49 / 8:49	9:19 / 9:19			
										15 July	16 July	17 July	18 July	19 July	20 July	21 July			
					07:39 / 16:47	07:39 / 17:23	07:39 / 17:23	07:27 / 16:58	07:38 / 18:08			9:08 / 9:08	9:44 / 9:44	9:44 / 9:44	9:31 / 9:31	10:30 / 10:30			
										22 July	23 July	24 July	25 July	26 July	27 July	28 July			
					07:39 / 17:06	07:31 / 16:38	07:39 / 17:08	07:41 / 17:03				9:26 / 9:26	9:07 / 9:07	9:28 / 9:28	9:21 / 9:21				
										29 July	30 July	31 July							
					07:39 / 17:49														
					10:09 / 10:09														
			1650	Bell Daniel	Cleaner	1 July	2 July	3 July	4 July	5 July	6 July	7 July			07:38 / 17:09	07:39 / 17:06	07:34 / 12:47	07:39 / 17:08	07:39 / 16:43
															9:31 / 9:31	9:26 / 9:26	5:13 / 5:13	9:28 / 9:28	9:04 / 9:04
													8 July	9 July	10 July	11 July	12 July	13 July	14 July
								07:31 / 17:07	07:31 / 17:05	07:34 / 17:05	07:31 / 17:05	07:33 / 16:40							
		9:36 / 9:36				9:33 / 9:33	9:31 / 9:31	9:34 / 9:34	9:07 / 9:07										

ReportSystem v3.4.0.1232 1

8.2.3.14 T-12 and T-13 reports

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

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

The **T-12** report is presented in the following figure.

Official Form

(Company name) Department 1 (Company department)	Code 1001008
Document Number	Date of forming 05.11.2011
Reported period	
from	to
01.11.2011	30.11.2011

**Table
of time and attendance**

No.	Surname, initials, position (speciality, profession)	Table number	Attendances/non-attendances by date															Worked during		Data to calculate salaries by types and priorities of expenses						Non-attendances by reason													
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	X	Half of the month (I, II)	month	payment-type code		corresponding account		Code	days (hours)	Code	days (hours)											
			16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	days	hours	payment-type code	corresponding account	days (hours)	payment-type code					corresponding account	days (hours)									
1	2	3	4															5	6	7	8	9	7	8	9	10	11	12	13										
1	Lee-Kin		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	X	0	0	00000																		
			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			0																	
2	Smb-John		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	00000																		
			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			0																	

Information on salary accounting by expense kinds is given in the 7-9 columns of **T-13** report.

Total by worked time for a month is given in the 8-13 columns of **T-12** report.

Total by employee's absence from work is given in the 14-16 columns of **T-12** report and in the 10-13 columns of **T-13** report.

8.2.3.15 Generalized report

Generalized report is a table that contains information on carrying out the workday order by employees for every day of selected period.

Time and Attendance reports

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

Page from

 100%

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

Field name	Description
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.

8.2.3.16 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 for the specified time period.

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

Page from



Discipline and overtimes

Date: from 01.07.2017 to 31.07.2017

Department: Department_6

Full Name	Position	Being late (hours)	Overtime (hours)	Saturdays (days)	Holidays (days)
Cook Ethan	Mechanic	00:00:00	00:00:00	0	0
Cooper Liam	Artificer	00:00:00	00:00:00	0	0
Bailey Joshua	Engineer	00:00:00	01:08:54	0	0
Bell Daniel	Cleaner	00:00:00	00:00:00	0	0
Brown Emily	Driver	00:00:00	00:00:00	0	0
Total by department:		00:00:00	01:08:54	0	0
Total by report:		00:00:00	01:08:54	0	0

The report fields are described in the following table.


Field name	Description
Full name	Employee full name
Position	Employee position
Being late (hours)	General time if being late during the specified period (in hours)
Overtime (hours)	General time of overtime during the specified period (in hours)
Saturdays (days)	Number of worked weekend days
Holidays (days)	Number of worked holidays
The Total by department line displays the total sum by each employee of the department.	
The Total by report line displays the total sum by each department.	

8.2.3.17 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.

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

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Facilitated generalized report

Date: from 9 January 2020 00:00:00 to 9 January 2020 23:59:59

Date : 9 January Department: Department 1

Personnel number	Full Name	Department	Hours worked	Arrival	Leaving	Coming late	Leaving earlier
	Bailey Joshua <i>График Пн-Вс 8-20</i>	Department 1	3:11:03	13:33:20	17:58:57	5:33:20	2:01:03
	Bell Daniel <i>График Пн-Вс 8-20</i>	Department 1	6:36:32	10:33:57	18:10:29	2:33:57	1:49:31
	Rider Tom <i>График Пн-Вс 8-20</i>	Department 1	0:58:42	13:44:54	14:43:36	5:44:54	5:16:24
	Wick John <i>График Пн-Вс 8-20</i>	Department 1	7:57:42	9:17:01	18:14:43	1:17:01	1:45:17

Date : 10 January Department: Department 1

Personnel number	Full Name	Department	Hours worked	Arrival	Leaving	Coming late	Leaving earlier
	Bailey Joshua <i>График Пн-Вс 8-20</i>	Department 1	5:44:13	8:41:34	15:25:47	0:41:34	4:34:13
	Bell Daniel <i>График Пн-Вс 8-20</i>	Department 1	0			0	0
	Rider Tom <i>График Пн-Вс 8-20</i>	Department 1	0			0	0
	Wick John <i>График Пн-Вс 8-20</i>	Department 1	0			0	0

Report fields are described in the table.

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

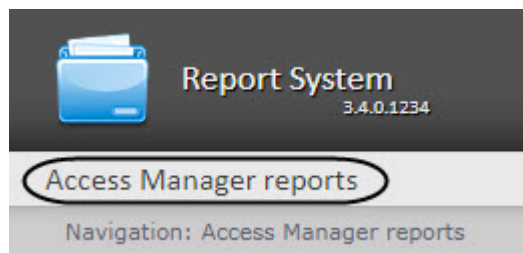
8.3 Working with Access Manager reports

Working with the **Access Manager** reports consists of the following stages:

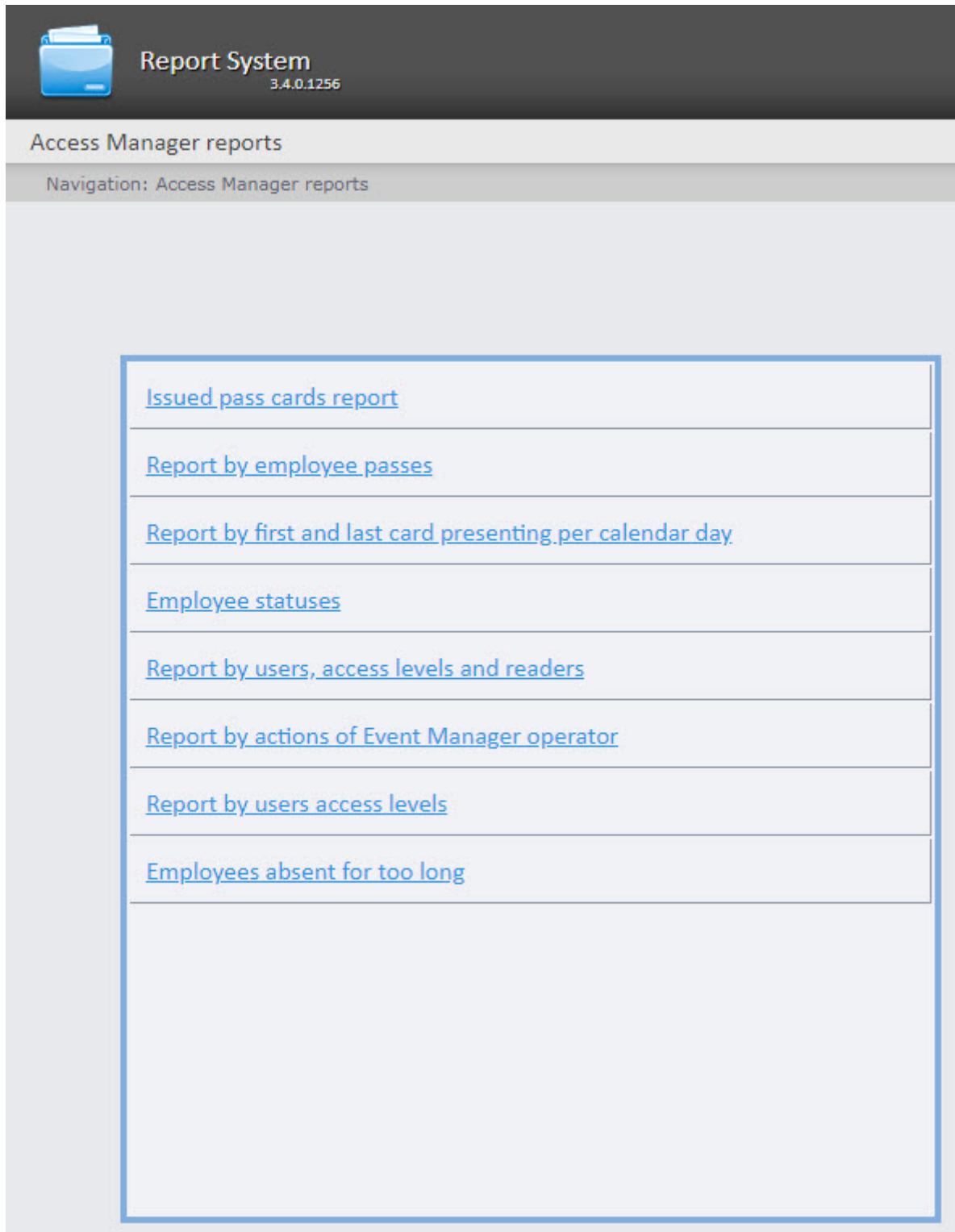
1. Selecting the report type.
2. Creating a report.

8.3.1 Selecting the type of Access Manager report

To select the **Access Manager** report type, click the **Access Manager reports** link in the *Intellect Web Report System* menu.



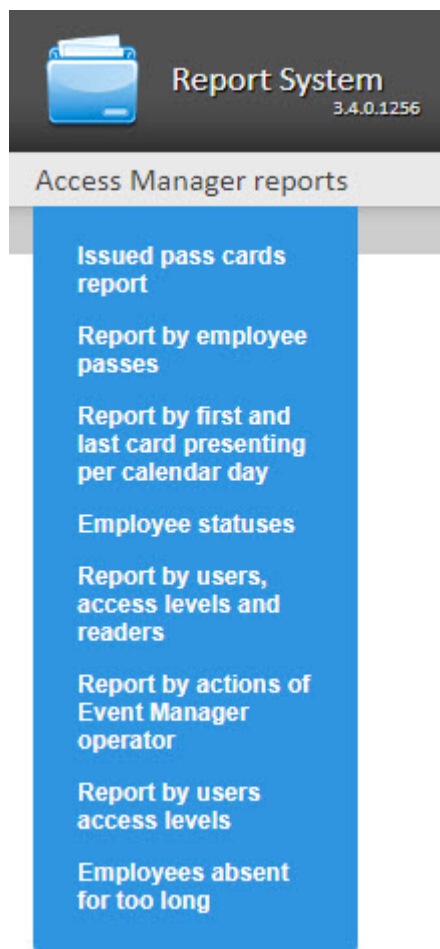
As a result the list of available **Access Manager** reports is displayed. To select the required report, click the corresponding link.



The screenshot displays the 'Report System' interface. At the top left, there is a blue folder icon and the text 'Report System 3.4.0.1256'. Below this, a grey bar contains the text 'Access Manager reports'. Underneath, a navigation bar shows 'Navigation: Access Manager reports'. The main content area features a blue-bordered box containing a list of report links:

- [Issued pass cards report](#)
- [Report by employee passes](#)
- [Report by first and last card presenting per calendar day](#)
- [Employee statuses](#)
- [Report by users, access levels and readers](#)
- [Report by actions of Event Manager operator](#)
- [Report by users access levels](#)
- [Employees absent for too long](#)

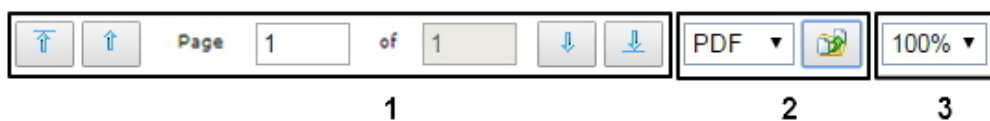
The list of the **Access Manager** reports is also displayed when hovering over the **Access Manager reports** link in the report menu.







8.3.2 Creating the Access Manager report

8.3.2.1 Access Manager report toolbar


The toolbar displayed at the page top is used for the report navigation, scaling the report page and exporting the **Access Manager** report.



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

The *Intellect Web Report System* enables exporting the **Access Manager** reports in the following formats:

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

To do this, select the necessary format on the toolbar and click  (2).

To zoom in/zoom out the report page, choose the required scale in the drop-down list (3).

8.3.2.2 Issued pass cards report

The **Issued pass cards report** is a table that contains the information about the time of issuing the pass card for the selected employees or departments, its type and period of validity.

To build the **Issued pass cards report**, do the following:

1. Select the **Issued pass cards report** (see [Selecting the type of Access Manager report](#)). As a result the dialog box for specifying the report parameters will be displayed.

Report System
3.4.0.1605

Access Manager reports

Navigation: [Access Manager reports](#) > Issued pass cards report

Issued pass cards report

Parameter	Value
Pass card type:	[all] 1
Specify the pass validity period:	Custom 2 from 1 January 2020 to 6 February 2020

Choose: [All](#), [None](#) View: [Hide all](#), [Show all](#)


- Department 1
 - Donne Andrey
 - Smith Will
 - Wick John
- Department 2

Departments/users:

Execute **4**

2. Set the report parameters in the following way:
 - a. From the **Pass card type** drop-down list (1), select the type of issued pass card.
 - b. From the **Specify the pass validity period** drop-down list (2) select the time period for which the report is to be created.


Note

- If the **Custom** 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 (5) using the **Calendar** tool. Click the  button near the corresponding field to use the **Calendar** tool.
- The minimum period of time that can be set is one week.

- In the **Departments/users** field (3) set checkboxes for the departments and employees, the information on which should be displayed in the report.
- To create a report, click **Execute** (4). As a result, the report with specified parameters is displayed.

Navigation: [Access Manager reports](#) > [Issued pass cards report](#) > Result

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Issued pass cards report
Date: from 1 January 2020 00:00:00 to 6 February 2020 23:59:59

Department: Department 1

Issued pass card type	Date/Time of issue	Period of validity (the number of days)	Issuing authority (individual)	Issuing authority (department)	Issuing authority (access manager employee)
Temporary. Car	1 February 2020 00:00:00	29	Smith Will	Department 1	Broadbent J.
Total on department:					
Temporary. Car				1	

The report fields are described in the table.

Field name	Description
Issued pass card type	Type of pass card
Date/Time of issue	Date and time of pass card issue
Period of validity (the number of days)	Pass card validity period
Issuing authority (individual)	Full name fo employee
Issuing authority (department)	Department to which the employee belongs
Issuing authority (access manager employee)	Full name of employee who issued the pass card
The Total on department line indicates the number of issued pass cards of each type within current department	

8.3.2.3 Employee entries report

The **Employee entries report** displays all interactions between the selected employee and the selected passage points. The report allows you to track the movement of the selected employee within a specified zone.

To create the **Employee entries report**, do the following:

1. Select the **Employee entries report** (see [Selecting the type of Access Manager report](#)). As a result the dialog box for specifying the report parameters will be displayed.



Access Manager reports

Navigation: [Access Manager reports](#) > Employee entries report

Employee entries report

Parameter	Value
Readers:	<p>Choose: All, None View: Hide all, Show all</p> <ul style="list-style-type: none"><input checked="" type="checkbox"/> Gate Parking access point 1<input checked="" type="checkbox"/> Gate Parking access point 2
Select the columns for the report:	<p>Choose: All, None View: Hide all, Show all</p> <ul style="list-style-type: none"><input type="checkbox"/> No.<input checked="" type="checkbox"/> Full Name<input type="checkbox"/> Name<input type="checkbox"/> Surname<input type="checkbox"/> Patronymic<input checked="" type="checkbox"/> License plate<input checked="" type="checkbox"/> Car<input checked="" type="checkbox"/> Card number<input type="checkbox"/> Card code<input type="checkbox"/> Date of card issue<input checked="" type="checkbox"/> Access point
Orientation:	Portrait 3
ShowLastPass:	<input type="checkbox"/> 4
Departments/users:	<p>Choose: All, None View: Hide all, Show all</p> <ul style="list-style-type: none"><input checked="" type="checkbox"/> Department 1<ul style="list-style-type: none"><input checked="" type="checkbox"/> Smith Jack<input checked="" type="checkbox"/> Wick John<input type="checkbox"/> Department 2
Period:	Custom 2 ▼ from 30 January 2020 01:22 PM to 30 January 2020 01:22 PM 6

Execute **7**

2. Set the report parameters in the following way:
 - a. In the **Readers** field (1), set checkboxes for those access points, the information on which should be displayed in the report.

Attention!

This field displays only the access points which are added to any access level in the *Access Manager* module (see [Creating and deleting access levels](#)).



- b. In the **Select the columns for the report** field (2), set the checkboxes for those columns that should be displayed in the report. You can also change the order of columns: to do this, left-click and hold the column name and drag it higher or lower relative to other columns.
 - c. From the **Orientation** drop-down list (3), select the report display orientation: **Portrait** (vertical) or **Landscape** (horizontal).

Attention!

- In **Portrait** orientation, you can select up to 5 columns.
- In **Landscape** orientation, you can select up to 7 columns.

- d. Set the **ShowLastPass** check box (4) if it is necessary to show only the last pass of employees.
 - e. In the **Departments/users** field (5) set checkboxes for the departments and employees, the information on which should be displayed in the report.
 - f. From the **Period** drop-down list (6) select the time period for which the report is to be created.


Note

- If the **Custom** 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 (5) using the **Calendar** tool. Click the  button near the corresponding field to use the **Calendar** tool.
- If the **Custom 2** period is selected, enter additionally the time of start and end periods for which the report is to be created using the  button.

3. To create a report, click **Execute** (7). As a result, the report with specified parameters is displayed. Example of a report in **Portrait** orientation:

Navigation: [Access Manager reports](#) > [Employee entries report](#) > Result

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Employee entries report

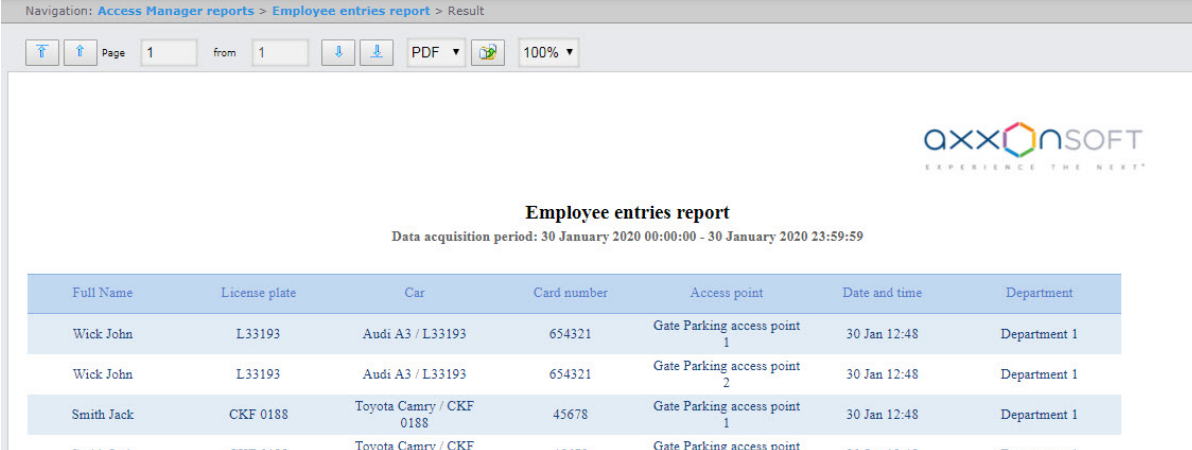
Data acquisition period: 30 January 2020 00:00:00 - 30 January 2020 23:59:59

Full Name	License plate	Car	Access point	Date and time
Wick John	L33193	Audi A3 / L33193	Gate Parking access point 1	30 Jan 12:48
Wick John	L33193	Audi A3 / L33193	Gate Parking access point 2	30 Jan 12:48
Smith Jack	CKF 0188	Toyota Camry / CKF 0188	Gate Parking access point 1	30 Jan 12:48
Smith Jack	CKF 0188	Toyota Camry / CKF 0188	Gate Parking access point 2	30 Jan 12:48

Example of a report in **Landscape** orientation:

Navigation: [Access Manager reports](#) > [Employee entries report](#) > Result

Page 1 from 1 PDF 100%



axxonsoft
EXPERIENCE THE NEXT

Employee entries report
Data acquisition period: 30 January 2020 00:00:00 - 30 January 2020 23:59:59

Full Name	License plate	Car	Card number	Access point	Date and time	Department
Wick John	L33193	Audi A3 / L33193	654321	Gate Parking access point 1	30 Jan 12:48	Department 1
Wick John	L33193	Audi A3 / L33193	654321	Gate Parking access point 2	30 Jan 12:48	Department 1
Smith Jack	CKF 0188	Toyota Camry / CKF 0188	45678	Gate Parking access point 1	30 Jan 12:48	Department 1
Smith Jack	CKF 0188	Toyota Camry / CKF 0188	45678	Gate Parking access point 2	30 Jan 12:48	Department 1

All possible report fields are described in the table.

Field name	Description
Number	Line number
Full name	Full name of the employee
First name	First name of the employee
Last name	Last name of the employee
Middle name	Middle name of the employee
LP number	License plate number of the employee's vehicle
Vehicle	Employee's vehicle brand
Card number	Employee's access card number
Card code	Employee's access card code
Date of card issue	Date when the card was issued to the employee
Passage point	Passage point through which the employee has passed
Date	Date of employee passage
Date and time	Date and time of employee passage
Access levels	Access level of the employee
Access	Decision on granting access (Access is allowed or Access is denied)
Telephone	Phone number of the employee
Structure	Name of the parent department if the department to which the employee belongs is a subsidiary
Department	Department to which the employee belongs

8.3.2.4 Report by first and last card presenting per calendar day

The **Report by first and last card presenting per calendar day** is a table which contains the information about the first and last time the selected employee presented the card to the passage point. Working schedules are ignored in the report, the data is displayed per calendar day. All passage points are analyzed during the report generation.

To create the **Report by first and last card presenting per calendar day**, do the following:

1. Select the **Report by first and last card presenting per calendar day** (see [Selecting the type of Access Manager report](#)). As a result the dialog box for specifying the report parameters will be displayed.


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

- Header:** Report System 3.4.0.1514
- Navigation:** Access Manager reports > Report by first and last card presenting per calendar day
- Report Title:** Report by first and last card presenting per calendar day
- Parameter Table:**

Parameter	Value
Highlight days when employee spent less N hours at work:	6
- Departments/users:** A list of departments and employees with checkboxes. Department 2 is selected, including Adam, Barrett, and John. Department 1 is not selected.
- Period:** Custom, from 1 September 2019 to 30 September 2019.
- Execute Button:** A button labeled 'Execute' with a large number '4' next to it.

2. Set the report parameters in the following way:
 - a. In the **Departments/Employees** field (1) set checkboxes for the departments and employees, the information on which should be displayed in the report.
 - b. From the **Period** drop-down list (2) select the time period for which the report is to be created.

Note

If the **Custom** 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 (3) using the **Calendar** tool. Click the  button near the corresponding field to use the **Calendar** tool.

- To create a report, click **Execute (4)**.
As a result, the report with specified parameters is displayed.

Navigation: [Access Manager reports](#) > [Report by first and last card presenting per calendar day](#) > Result

Page 1 from 2 PDF 100%



Report by first and last card presenting per calendar day

Period: 1 September 2019 00:00:00 - 30 September 2019 23:59:59

Department: **Department 2**

Personnel number	Full Name		Position		Card	
Butler Barrett						
	Mon	Tue	Wed	Thu	Fri	Sat
						Sun
	-	-	-	-	-	1 September
2 September	3 September	4 September	5 September	6 September	7 September	8 September
	-	-	-	-	-	-
9 September	10 September	11 September	12 September	13 September	14 September	15 September
16:38 -17:11	08:17 -15:14	09:43 -11:36	09:09 -09:58	09:18 -15:29	-	-
16 September	17 September	18 September	19 September	20 September	21 September	22 September
13:32 -14:54	12:58 -14:13	-	-	-	-	-
23 September	24 September	25 September	26 September	27 September	28 September	29 September
	-	-	-	-	-	-
30 September						
11:22 -13:17	-	-	-	-	-	-
Chester Adam						
	Mon	Tue	Wed	Thu	Fri	Sat
						Sun
	-	-	-	-	-	1 September
2 September	3 September	4 September	5 September	6 September	7 September	8 September
	-	-	-	-	-	-

The report fields are described in the table.

Field	Description
Personnel number	Personnel number of the employee
Full Name	Full name of the employee
Position	Position of the employee
Card	Employee card number
Time of first/last presenting of card	A table indicating the time of the first/last presenting of the card on each day within the selected time period

Note

If the report was created automatically in Excel format (see [Setting up Intellect Web Report System operation in the automatic mode](#)), the Department/subdivision column will be displayed in the report. It contains the name of the department to which the employee belongs.

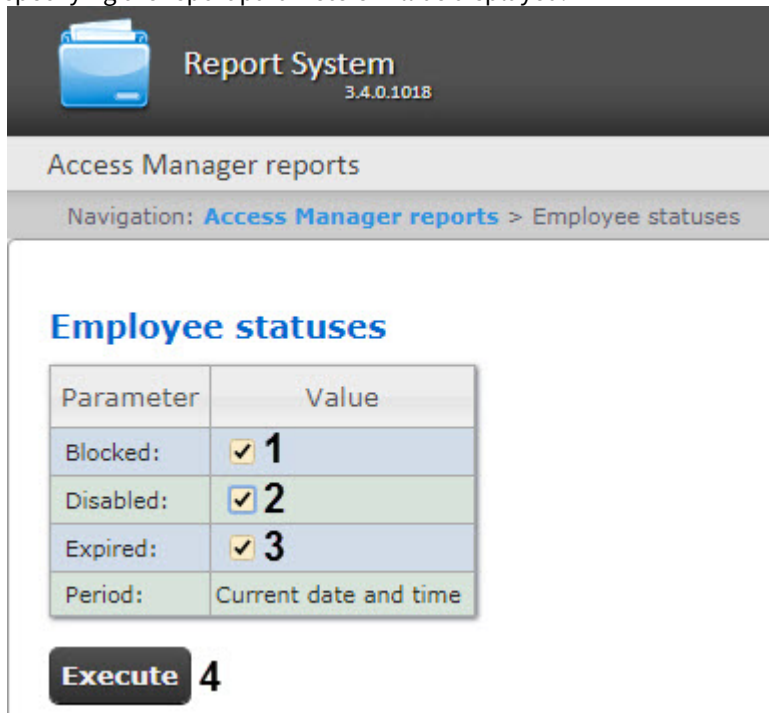
Report by first and last card presenting per calendar day						
from 1 September 2019 to 30 September 2019						
Personnel number	Full Name	Department / subdivision		Position	Card	
	Butler Barrett	Department 2				
Mon	Tue	Wed	Thu	Fri	Sat	Sun
						1 September
						-
2 September	3 September	4 September	5 September	6 September	7 September	8 September
-	-	-	-	-	-	-
9 September	10 September	11 September	12 September	13 September	14 September	15 September
16:38 - 17:11	08:17 - 15:14	09:43 - 11:36	09:09 - 09:58	09:18 - 15:29	-	-
16 September	17 September	18 September	19 September	20 September	21 September	22 September
13:32 - 14:54	12:58 - 14:13	-	-	-	-	-
23 September	24 September	25 September	26 September	27 September	28 September	29 September
-	-	-	-	-	-	-
	Chester Adam					
Mon	Tue	Wed	Thu	Fri	Sat	Sun
						1 September
						-
2 September	3 September	4 September	5 September	6 September	7 September	8 September
-	-	-	-	-	-	-
9 September	10 September	11 September	12 September	13 September	14 September	15 September
-	09:16 - 10:34	-	-	-	-	-
16 September	17 September	18 September	19 September	20 September	21 September	22 September
-	14:18 - 18:33	12:10 - 16:08	12:25 - 17:31	-	-	-
23 September	24 September	25 September	26 September	27 September	28 September	29 September

8.3.2.5 Employee statuses report

The **Employee statuses** report is a table which contains the information about the current status of employees' cards (expired, disabled, locked) and the dates of their expiration.

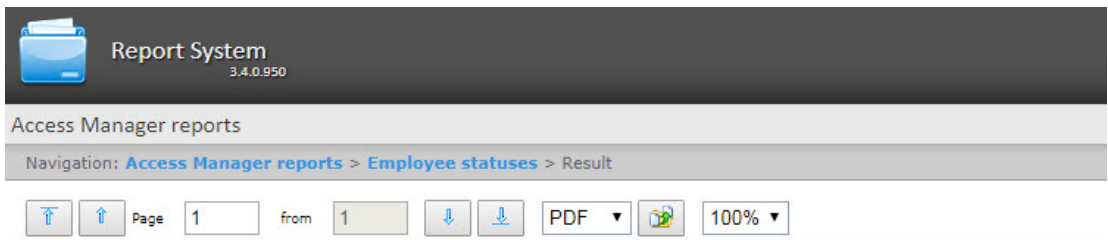
To create the **Employee statuses** report, do the following:

1. Select the **Employee statuses** report (see [Selecting the type of Access Manager report](#)). As a result the dialog box for specifying the report parameters will be displayed.



2. Set the report parameters in the following way:
 - a. Set the **Blocked** checkbox (**1**) to display the employees with locked cards.

- b. Set the **Disabled** checkbox (2) to display the employees with disabled cards.
 - c. Set the **Expired** checkbox (3) to display the employees with expired cards.
3. To create a report click **Execute** (4).
4. As a result the report with specified parameters is displayed.



Report from: 7/5/2018 5:01:56 PM



Report by employee status

Locked employees

Personnel number	Full Name	Expire date of card
22222	Vai Steve	

Expired employees (cards)

Personnel number	Full Name	Expire date of card
11111	Donne John	26.06.2018 23:59:59

The report fields are described in the table.

Field name	Description
Personnel number	Employee number in the <i>Access Manager</i> module
Full Name	Full name of the selected employee
Expire date of card	Expiration date of the employee card

8.3.2.6 Report by users, access levels and readers

The **Report by users, access levels and readers** is a table which contains the information about users with the selected access levels or selected passage points assigned to them.

To create the **Report by users, access levels and readers**, do the following:

1. Select the **Report by users, access levels and readers** (see [Selecting the type of Access Manager report](#)). As a result the dialog box for specifying the report parameters will be displayed.



Access Manager reports

Navigation: [Access Manager reports](#) > Report by users, access levels and readers

Report by users, access levels and readers

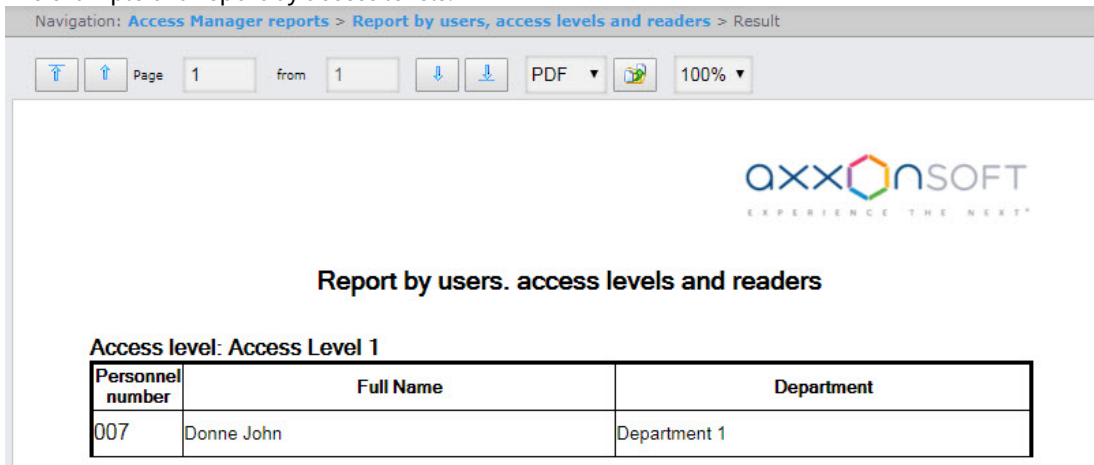
Parameter	Value
Access levels:	<p>Choose: All, None View: Hide all, Show all</p> <div style="border: 1px solid black; border-radius: 10px; padding: 5px;"> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Full access <input checked="" type="checkbox"/> Forbidden <input checked="" type="checkbox"/> Access Level 1 </div>
Readers:	<p>Choose: All, None View: Hide all, Show all</p> <div style="border: 1px solid black; border-radius: 10px; padding: 5px;"> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> ARC Reader 1.1.1 </div>
Type of report:	By readers ▼ 3
Period:	Current date and time

1

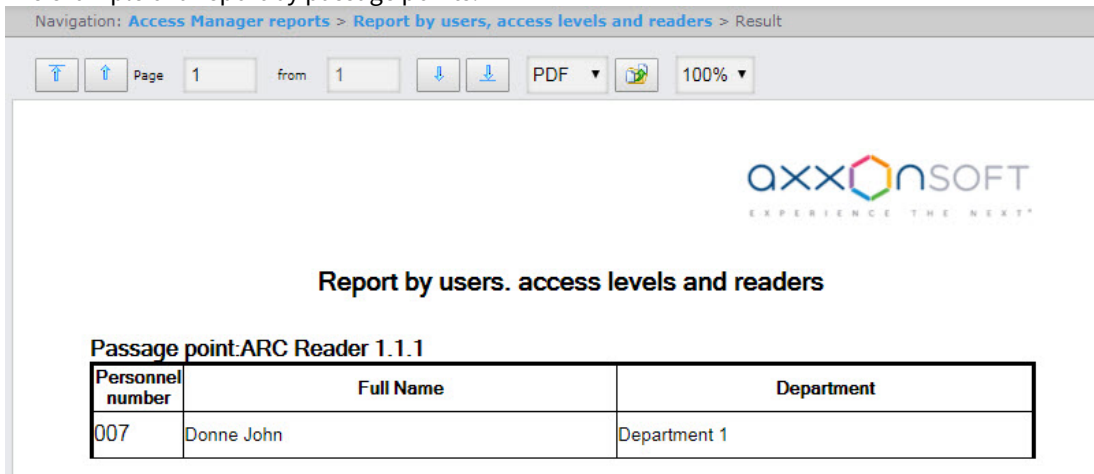
2

Execute 4

2. Set the report parameters in the following way:
 - a. In the **Access levels** field (1) set the checkboxes for the access levels the information on which should be displayed in the report.
 - b. In the **Readers** field (2) set the checkboxes for the readers the information on which should be displayed in the report.
 - c. From the **Type of report** drop-down list (3) select the required report type.
3. To create a report click **Execute** (4).
4. As a result the report with specified parameters is displayed.
 - a. The example of a report by access levels.



- b. The example of a report by passage points.



The report fields are described in the table.

Field name	Description
Personnel number	Employee number
Full name	Full name of the employee
Department	Employee department

8.3.2.7 Report by actions of Event Manager operator

The **Report by actions of Event Manager operator** is a table which displays the requests received by the **Event Manager** operator and his reactions to them.

To create the **Report by actions of Event Manager operator**, do the following:

1. Select the **Report by actions of Event Manager operator** (see [Selecting the type of Access Manager report](#)). As a result the dialog box for specifying the report parameters will be displayed.



Access Manager reports


Navigation: [Access Manager reports](#) > Report by actions of Event Manager operator


Report by actions of Event Manager operator

Parameter	Value
Operators:	<p>Choose: All, None View: Hide all, Show all</p> <div style="border: 1px solid black; border-radius: 10px; padding: 10px;"> <input checked="" type="checkbox"/> Unauthorized user </div> <p>1</p>
Computers:	<p>Choose: All, None View: Hide all, Show all</p> <div style="border: 1px solid black; border-radius: 10px; padding: 10px;"> <input checked="" type="checkbox"/> R-NAZAROV-PC </div> <p>2</p>
Events and reactions:	<p>Choose: All, None View: Hide all, Show all</p> <div style="border: 1px solid black; border-radius: 10px; padding: 10px;"> <input checked="" type="checkbox"/> Events <input checked="" type="checkbox"/> Reactions </div> <p>3</p>
Departments / Employees:	<p>Choose: All, None View: Hide all, Show all</p> <div style="border: 1px solid black; border-radius: 10px; padding: 10px;"> <input checked="" type="checkbox"/> Department 1 <input checked="" type="checkbox"/> Department 2 </div> <p>4</p>

2. Set the report parameters in the following way:
 - a. In the **Operators** field (1) set the checkboxes for the operators whose actions should be displayed in the report.
 - b. In the **Computers** field (2) set the checkboxes for the computers the information on which should be displayed in the report.
 - c. In the **Events and reactions** field (3) set the checkboxes for the events and reactions the information on which should be displayed in the report.
 - d. In the **Departments/Employees** field (4) set the checkboxes for the departments and employees the information on which should be displayed in the report.
 - e. From the **Period** drop-down list (5) select the time period for which the report is to be created.
 - i. If the **User** 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 (6) using the **Calendar** tool.

Note

Click the  button near the corresponding field to use the **Calendar** tool.

- ii. If the **User 2** period is selected, enter additionally the time of start and end periods for which the report is to be created using the  button.
- iii. If another period type is selected, specifying the date of start and end periods is not needed.

3. To create a report click **Execute** (7).
4. As a result the report with specified parameters is displayed.

Report by actions of Event Manager operator

Period: 10.09.2017 - 11.09.2017

Date	Passage point	Event	Full Name	Department	Card	Operator	Action	Workstation
10.09.2017 10:59:26	entrance	Passage request	Darcy Johnson		(200)0000	Mark Harrington	'Allow'	Computer 1
10.09.2017 11:01:08	exit	Passage request	Darcy Johnson		(200)0000	Mark Harrington	'Deny'	Computer 1
10.09.2017 12:35:33	exit	Passage request	Darcy Johnson		(200)0000	Mark Harrington	'Allow'	Computer 1
10.09.2017 12:41:24	exit	Passage request	Darcy Johnson		(200)0000	Mark Harrington	'Deny'	Computer 1
10.09.2017 12:41:46	entrance	Passage request	Darcy Johnson		(200)0000	Mark Harrington	'Deny'	Computer 1

The report fields are described in the table.

Field name	Description
Date	Date of the request received by the operator
Passage point	The passage point controlled by the Event Manager module
Event	Request received by the operator
Full Name	Full name of the requesting person
Department	Department of the requesting person

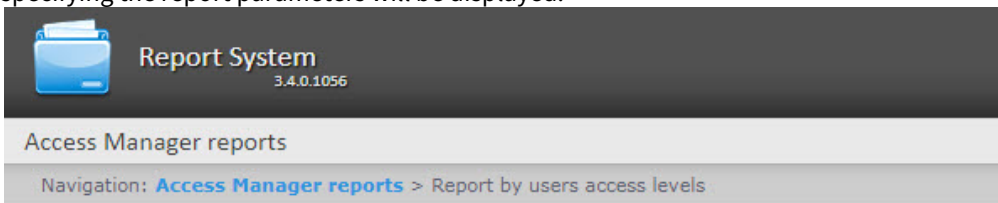
Field name	Description
Card	Card number of the requesting person
Operator	Full name of the oprator
Action	Operator reaction to a request
Workstation	The name of the computer on which the operator action was performed

8.3.2.8 Report by users access levels

The **Report by users access levels** is a table which contains the information about the access levels of the selected employees, and the passage points which are available for passing for the selected employees.

To create the **Report by users access levels**, do the following:

1. Select the **Report by users access levels** (see [Selecting the type of Access Manager report](#)). As a result the dialog box for specifying the report parameters will be displayed.



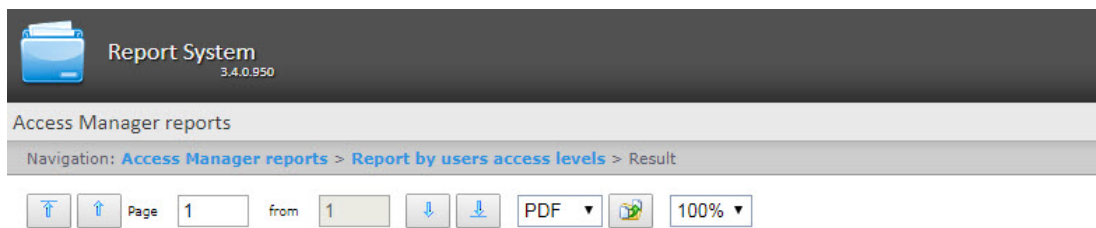
Report by users access levels

Parameter	Value
Do not display readers:	<input type="checkbox"/> 1
Departments / Employees:	Choose: All, None View: Hide all, Show all - <input checked="" type="checkbox"/> Department 1 <input checked="" type="checkbox"/> Donne J. <input checked="" type="checkbox"/> Miller S. + <input type="checkbox"/> Department 2
Period:	Current date and time

Execute 3

2. Set the report parameters in the following way:
 - a. Set the **Do not display readers** checkbox (1) to hide the readers in the report.
 - b. In the **Departments/Employees** field (2) set the checkboxes for the departments and employees the information on which should be displayed in the report.
3. To create a report click **Execute (3)**.

4. As a result the report with specified parameters is displayed.



Users access levels

Department: Department 1

Personnel number	Full Name	Access levels	Passage points
11111	Donne John	Access level 1	ARC Reader 1.1.1

Department: Department 2

Personnel number	Full Name	Access levels	Passage points
22222	Vai Steve	Access level 2	ARC Reader 1.2.1

The report fields are described in the table.

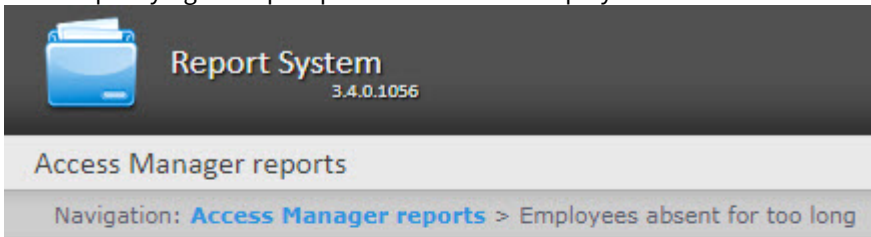
Field name	Description
Personnel number	Employee number
Full name	Full name of the employee
Access levels	Access level of the selected employee
Passage points	Passage points (readers) through which the employee can pass

8.3.2.9 Employees absent for too long report

The **Employees absent for too long** report is a table which contains the information about the last passes of the employees who are absent for a long time. Absent means that their cards were not used for a specified number of days.

To create the **Employees absent for too long** report, do the following:

1. Select the **Employees absent for too long** report (see [Selecting the type of Access Manager report](#)). As a result the dialog box for specifying the report parameters will be displayed.

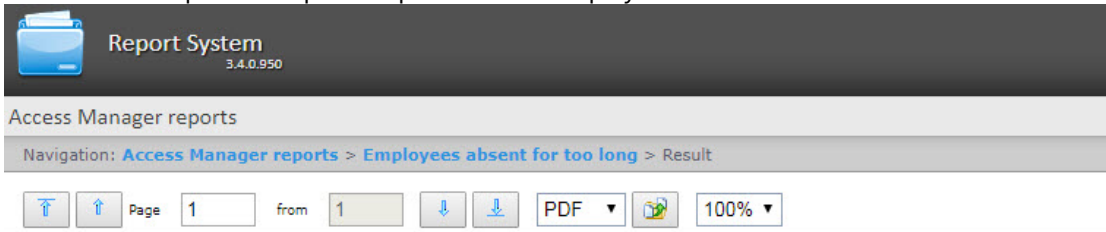


Employees absent for too long

Parameter	Value
Absent for more than, days:	15 1
Period:	Current date and time

Execute

2. In the **Absent for more than, days (1)** specify the required number of days.
3. To create a report click **Execute (2)**.
4. As a result the report with specified parameters is displayed.



Report from: 7/5/2018 5:07:04 PM



Report by employees not coming for a long time

Locked employees

Personnel number	Full Name	Card	Last coming	Last device
11111	Donne John	100		
22222	Vai Steve			

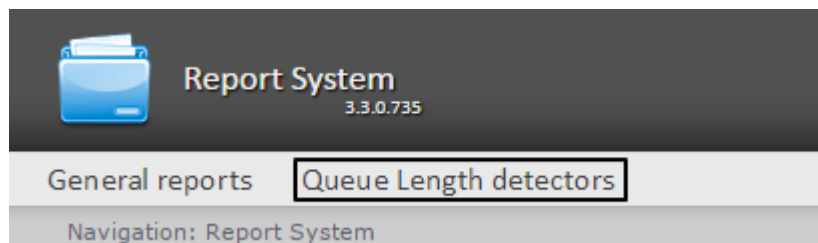
The report fields are described in the table.

Field name	Description
Personnel number	Employee number
Full Name	Full name of the selected employee
Card	Number of the employee card
Last coming	Date of the employee last pass through the passage point

Field name	Description
Last device	Identifier of the passage point that registered the last employee pass

8.4 Working with reports by Queue Length detectors

Reports by Queue Length detectors are available in the **Queue Length detectors** menu of the *Intellect Web Report System*.



In order to be able to view and generate reports by Queue Length detectors, you should install and configure the **Analytics Pack subsystem**, as described in the [Detector Pack](#) user's manual.

In the **Administration** menu of the *Intellect Web Report System*, you should configure the role with the right to perform the operation of the Queue Length Detector Operator and assign it to the responsible users, as described in [Set up the roles and users](#).

There are two types of reports by Queue Length detectors:

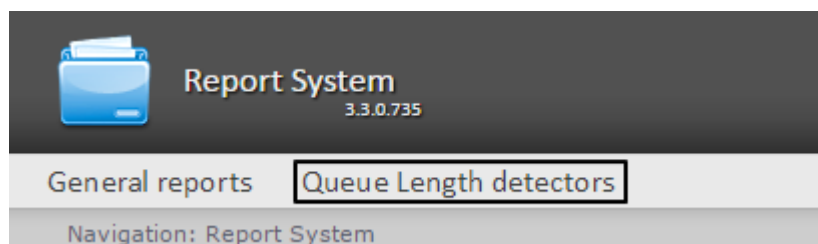
- [Average queue length in time interval](#)
- [Queue length threshold crossing](#)

Note

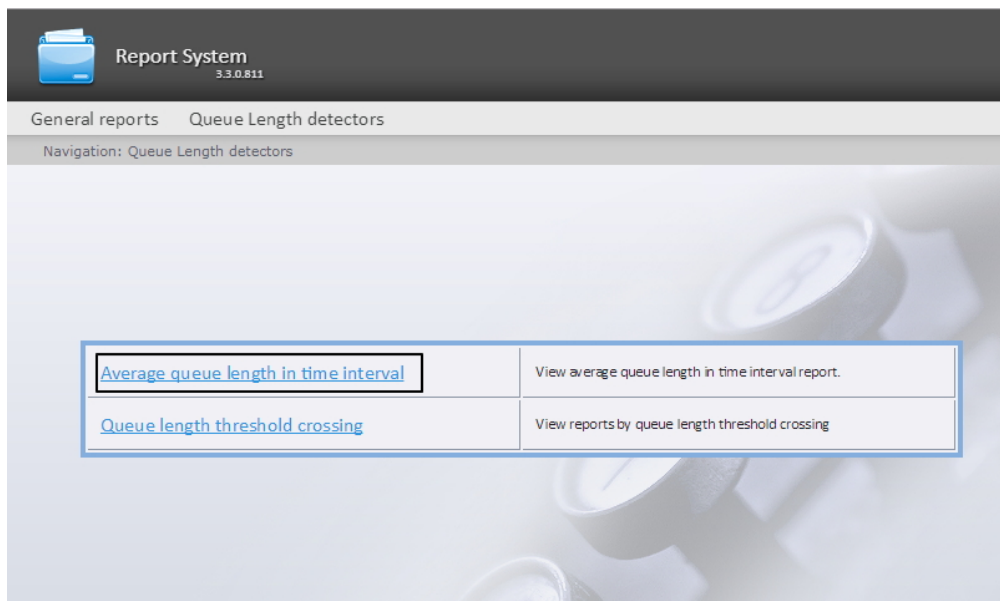
By default, in the reports by Queue Length detectors, the values equal to 0 are not included to the report table. To include the zero values in the report, it is necessary to perform the configuration (see [Disabling the zero value filter](#)).

8.4.1 Average queue length in time interval

To create an **Average queue length in time interval** report click **Queue Length detectors** link in the main menu of the *Intellect Web Report System*.

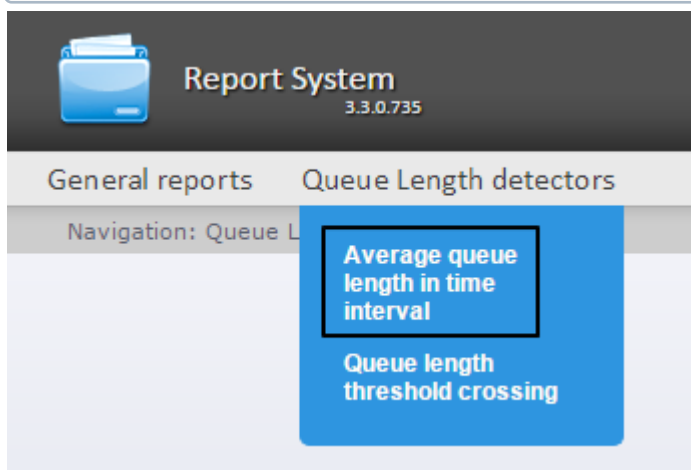


Next, click **Average queue length in time interval**.



Note.

A link to the report by average queue length in time interval is also available when the cursor is hovered over the **Queue Length detectors** link in the main menu.



The report by average queue length in time interval page will open.



Report System
3.3.0.735

General reports Queue Length detectors

Navigation: Queue Length detectors > Average queue length in time interval

Average queue length in time interval

Parameter	Value
Receiving data period:	User 2 <input type="button" value="from"/> 04/01/2017 <input type="button" value="Calendar"/> 00:00 <input type="button" value="Clock"/> to 04/30/2017 <input type="button" value="Calendar"/> 23:59 <input type="button" value="Clock"/> 1
Data averaging interval (min.):	60 <input type="text"/> 2
Detectors:	Choose: All, None View: Hide all, Show all <input checked="" type="checkbox"/> Queue Length Detector 1 <input checked="" type="checkbox"/> Queue Length Detector 2 <input checked="" type="checkbox"/> Queue Length Detector 3 <input checked="" type="checkbox"/> Queue Length Detector 4 <input checked="" type="checkbox"/> Queue Length Detector 5 3
Chart:	<input checked="" type="checkbox"/> 4
Time zone:	[not apply] <input type="button" value="v"/> 5
Orientation:	Portrait <input type="button" value="v"/> 6
Execute 7	

Set the following report parameters:

- Specify the period in the following way:
 - From the **Period:** drop-down list select the time period for which the report is created (**1**).
 - If the **User defined** period is selected, enter the date of start and end periods for which the report is 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, additionally enter the time of start and end periods for which the report is created using the button.
If another period type is selected, specifying the date of start and end periods is not needed.
- 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 for all such intervals in the specified period, this period will not be reflected in the report. It is recommended to change the step in this case.

- In the **Detectors** field set checkboxes for the **Queue Length Detector** objects that will supply the information for the report (**3**).
- If you want to view a report as a chart, set the corresponding checkbox (**4**).

5. 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. From the **Orientation** drop-down list, select the orientation of the printed report page: **Portrait, Landscape** (6).

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

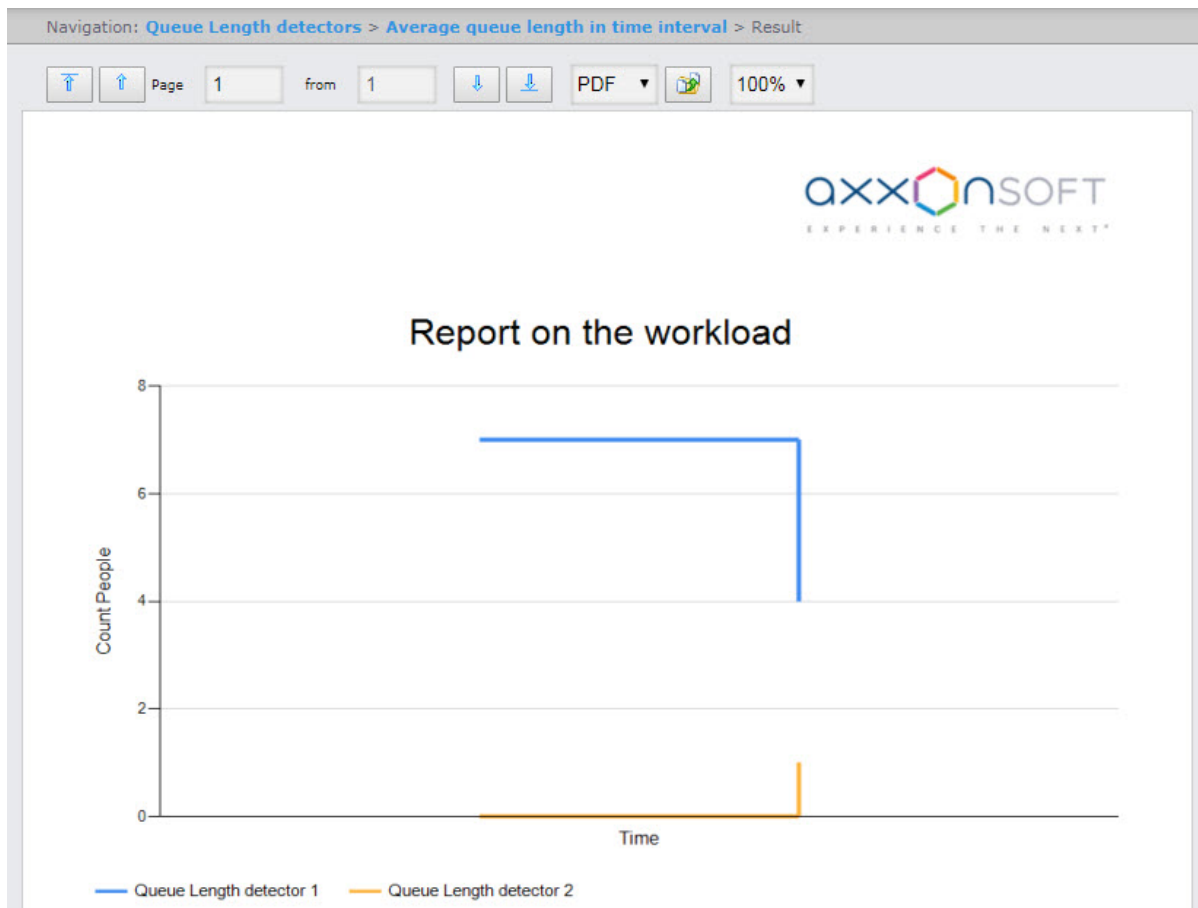
As a result, the report by the average queue length in time interval with specified parameters will be displayed.



Average queue length in time interval

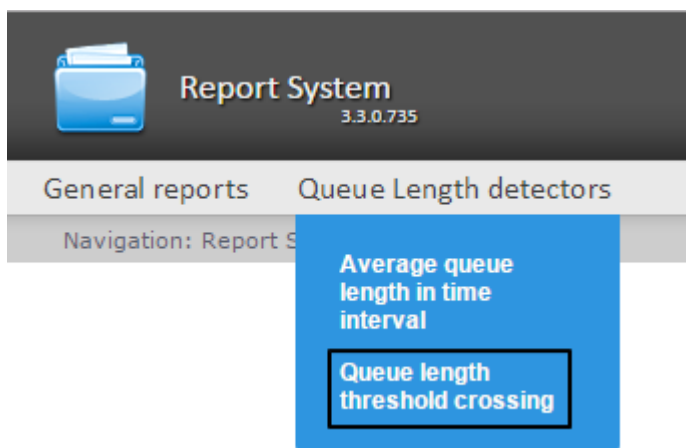
Detection	Time Period	People count
Queue length detector 1	7/16/2018 1:40:00 PM	6
Queue length detector 1	7/16/2018 1:50:00 PM	8
Queue length detector 1	7/16/2018 2:00:00 PM	8
Queue length detector 1	7/16/2018 1:40:00 PM	7
Queue length detector 1	7/16/2018 1:50:00 PM	8
Queue length detector 1	7/16/2018 2:00:00 PM	8

Example of a report of average queue length in time interval as a chart is given in the following figure. If more than one detector is used, the data from each detector will be displayed in its own color.



8.4.2 Queue length threshold crossing

To create a **Queue length threshold crossing** report, hover the cursor on the **Queue Length detectors** item of the main menu of the *Intellect Web Report System*.



Note

At the moment of this writing, the **Queue length threshold crossing** report is available only from the drop-down menu.

The report by queue length threshold crossing page will open.



Report System
3.3.0.735

General reports Queue Length detectors

Navigation: Queue Length detectors > Queue length threshold crossing

Queue length threshold crossing

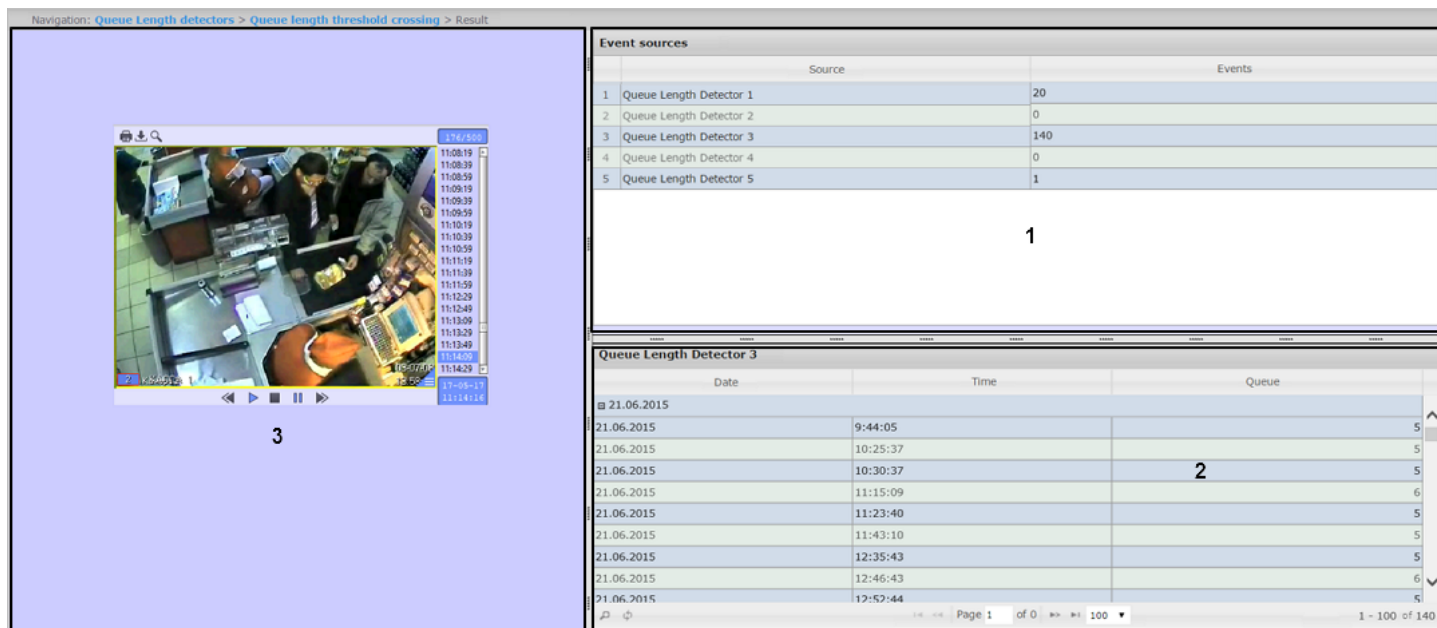
Parameter	Value
Receiving data period:	User 2 from 05/22/2017 00:00 to 05/28/2017 23:59 1
Threshold (people):	3 2
Repetition avoidance interval (min):	5 3
Detectors:	Choose: All, None View: Hide all, Show all <input checked="" type="checkbox"/> Queue Length Detector 1 <input checked="" type="checkbox"/> Queue Length Detector 2 <input checked="" type="checkbox"/> Queue Length Detector 3 <input checked="" type="checkbox"/> Queue Length Detector 4 <input checked="" type="checkbox"/> Queue Length Detector 5 4

Execute **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 created (**1**).
 - b. If the **User defined** period is selected, enter the date of start and end periods for which the report is 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, additionally enter the time of start and end periods for which the report is created using the button.
If another period type is selected, specifying the date of start and end periods is not needed.
2. In the **Threshold (people)** field set the number of people in the queue, which is considered a threshold (**2**).
3. In the **Repetition avoidance interval (min.)** field enter the time in minutes, during which the event of exceeding the threshold of the queue length will not be generated (**3**).
4. In the **Detectors** field set checkboxes for the **Queue Length Detector** objects that will supply the information for the report (**4**).
5. To create a report click **Execute** (**5**).

As a result, the report by queue length threshold crossing will be generated with the specified parameters.



The report has a three-sectioned structure:

1. Section **1** displays a list of queue length detectors that have recorded exceeding the threshold events for the specified period, and the number of recorded events.
2. Section **2** displays a detailed table of events recorded by the detector selected in section **1**, the time of recording for each event, and the number of people in the queue at the specified time. The maximum number of entries on one page of the table is 100.
3. In section **3**, you can watch the video of the event selected in section **2**.

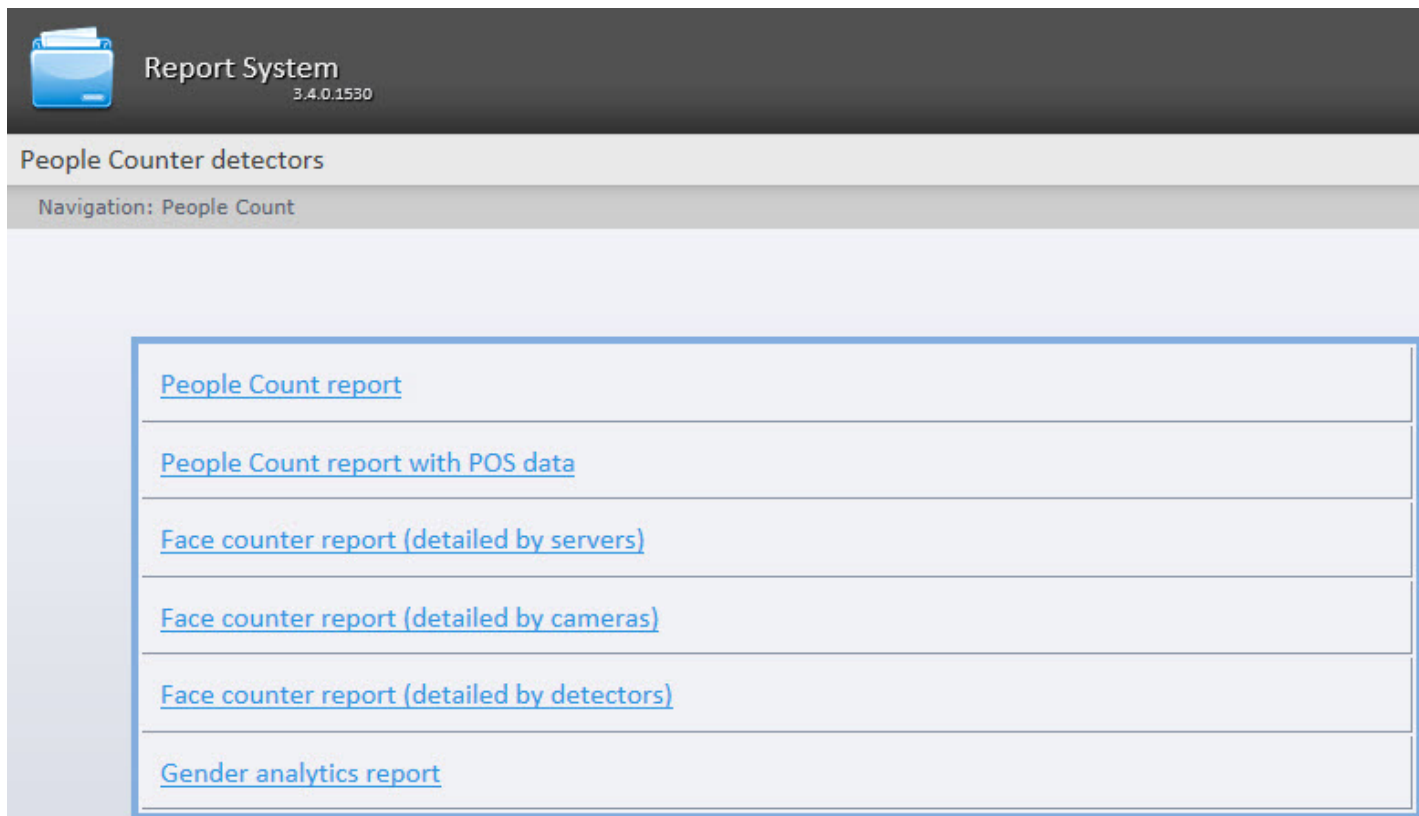
8.5 Working with reports by People Counter detectors

To work with the reports by the People Counter detectors, select and build the required report. The description and purpose of each report is presented on the corresponding page.

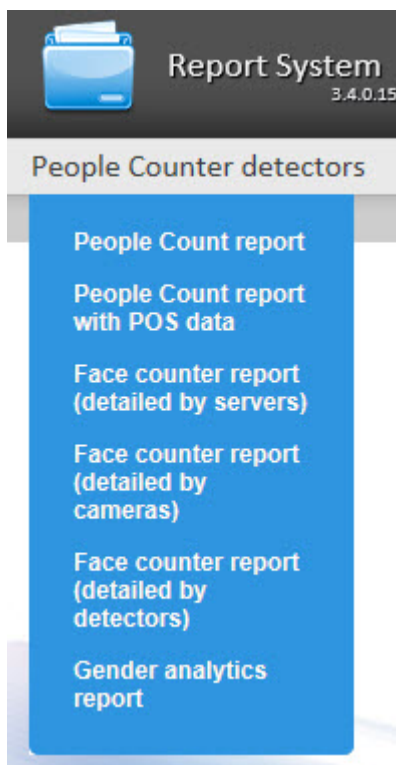
8.5.1 Selecting a type of reports by People Counter detector

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.



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.



8.5.2 Creating a People Count report

The **People Count** report allows getting the data about the number of entering people. The data can be presented only as a chart.

Note

The **People Count** report is related to the **People Counter detector** (it is necessary to create the corresponding object in the *Intellect* software).

To create a **People Count** report, do the following:

1. Select the **People Count** report type (see [Selecting a type of reports by People Counter detector](#)). As a result the dialog box for specifying the report parameters will be displayed.

Report System
3.4.0.1537

People Counter detectors

Navigation: [People Counter detectors](#) > Report on people counting

Report on people counting

Parameter	Value
Detectors:	Choose: All , None View: Hide all , Show all <input checked="" type="checkbox"/> People Counter detector 1 <input checked="" type="checkbox"/> Entry <input checked="" type="checkbox"/> Exit
Период:	Custom ▼ from 11 December 2019 to 11 December 2019
Time interval:	from 00:00:00 to 23:59:59
Step:	15 minutes ▼
Present data in form of:	Graph ▼

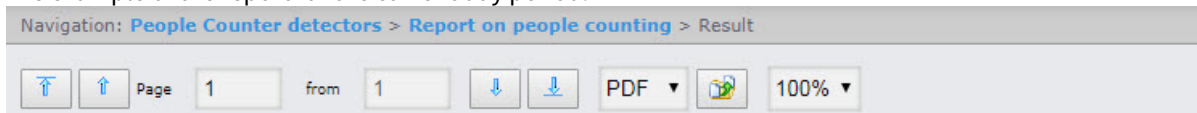
Execute 6

2. Set the report parameters in the following way:

- a. In the **Detectors** field (1) set the checkboxes for those **People counter** objects which data should be displayed in the report. You can also set the **Entry** and/or **Exit** checkboxes to build a report on the number of entered and/or exited visitors.
 - b. From the **Receiving data period** drop-down list select the time period for which the report is to be created (2).
 - c. In the **Time interval** field (3), enter the time interval within the day; the passes made during this interval will be displayed in the report.
 - d. From the **Step** drop-down list (4) select the time period during which the values received from people counter detector will be summed (depends on the **Receiving data period** parameter, see 2.b).
 - e. From the **Present data in form of** drop-down list (5), select the report format: **Table** or **Graph**.
3. To create a report click **Execute** (6).

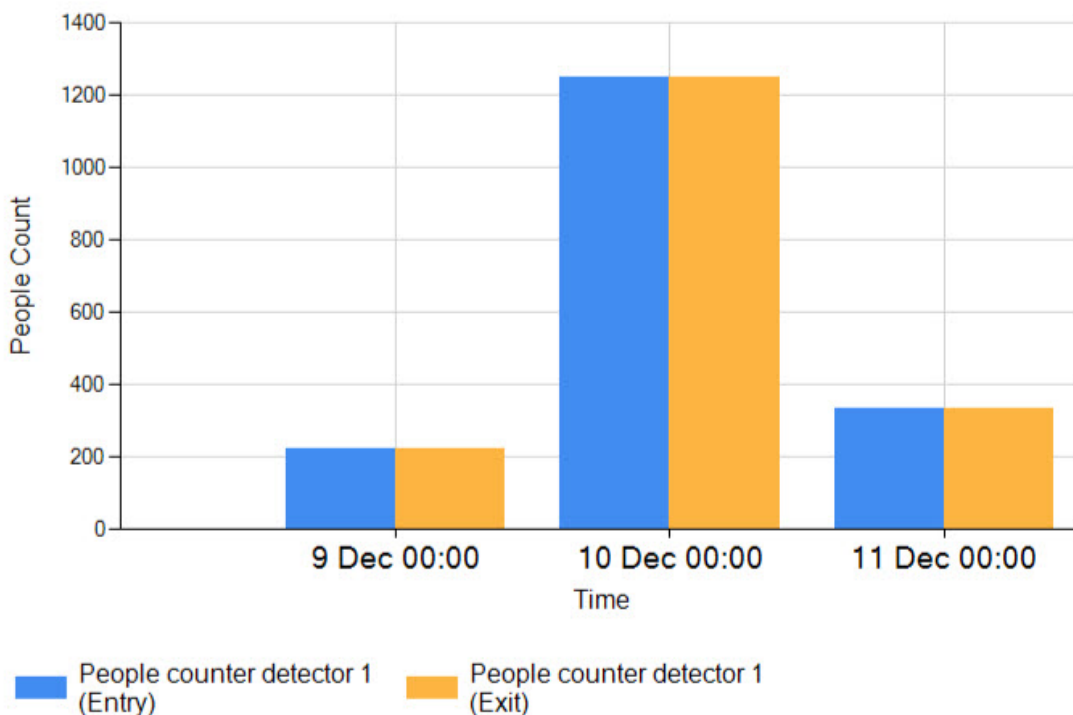
As a result the report with specified parameters will be displayed.

The example of the report for the current day period:



Report on people counting

Data acquisition period: 9 December 2019 00:00:00 - 11 December 2019 12:10:30



The example of the report for the current week period presented as a graph:

Navigation: [People Counter detectors](#) > [Report on people counting](#) > Result

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Report on people counting

Data acquisition period: 11 December 2019 00:00:00 - 11 December 2019 23:59:59

Source	Data acquisition interval	Visitors
People Counter detector 1 (Entry)	11 Dec 00:00:00 — 11 Dec 05:59:00	0
People Counter detector 1 (Exit)	11 Dec 00:00:00 — 11 Dec 05:59:00	0
People Counter detector 1 (Entry)	11 Dec 06:00:00 — 11 Dec 11:59:00	40
People Counter detector 1 (Exit)	11 Dec 06:00:00 — 11 Dec 11:59:00	70
People Counter detector 1 (Entry)	11 Dec 12:00:00 — 11 Dec 17:59:00	0
People Counter detector 1 (Exit)	11 Dec 12:00:00 — 11 Dec 17:59:00	0
People Counter detector 1 (Entry)	11 Dec 18:00:00 — 11 Dec 23:59:59	0
People Counter detector 1 (Exit)	11 Dec 18:00:00 — 11 Dec 23:59:59	0
Total:		110

8.5.3 Creating an Entering/Exiting People Count report with Point of Sale data

The **Entering/Exiting People Count report with Point of Sale data** is a variation of the [Entering/Exiting People Count](#) report, which, in addition to data on the number of visitors, can provide information about the profits brought by visitors. The data can be presented only as a table.


Note

The **Entering/Exiting People Count report with Point of Sale data** is related to the **People Counter detector** and the *POS Intellect* software (it is necessary to create the corresponding objects in the *Intellect* software and configure the *POS Intellect* software (for details, see [Administrator's Guide](#))). The information about the profits brought by visitors is received from the database of the Server which was specified during the [POS Intellect installation](#).

To create an **Entering/Exiting People Count report with Point of Sale data**, do the following:

- i. From the **Receiving data period:** drop-down list select the time period for which the report is to be created (4).
- ii. 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.

Note

Click the  button near the corresponding field to use the **Calendar** tool.

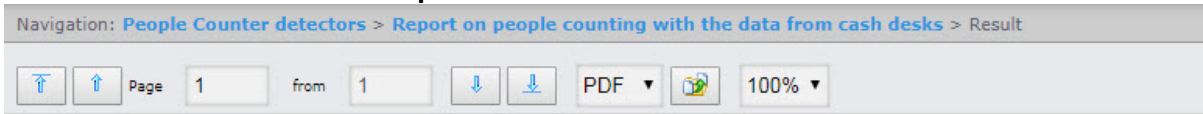
- iii. If the **User defined 2** period is selected, enter additionally the time of start and end periods for which the report is to be created using the button.
 - iv. If another period type is selected, specifying the date of start and end periods is not needed.
- e. Enter a time period (in minutes) during which the values received from people counter detector will be summarized in the **Step** field (5).
 - f. 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.

- g. Set the **Sum result** checkbox to display sum result by selected detections in the report (7).

- 3. To create a report click **Execute** (8).
- 4. As a result an **Entering/Exiting People Counter report** with specified parameters will be displayed, containing two additional columns: **Number of receipts** and **Cash sum**.



Entering/Exiting People Count report with Point of Sale data

Data acquisition period: 9 December 2019 00:00:00 - 11 December 2019 11:33:41

Source	Data acquisition interval	Visitors	Number of receipts	Sum
People Counter detector 1	9 Dec 00:00:00 — 9 Dec 23:59:00	128	0	0
People Counter detector 1	10 Dec 00:00:00 — 10 Dec 23:59:00	689	0	0
People Counter detector 1	11 Dec 00:00:00 — 11 Dec 11:33:41	55	0	0
Total:		872	0	0

8.5.4 Creating a Face counter report (detailed by servers)

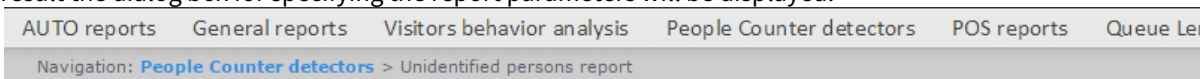
The **Face counter report (detailed by servers)** allows getting data about the number of captured faces (people/ persons) using the data from the face recognition servers. The data can be presented as a table and a chart.

Note

The **Face counter report (detailed by servers)** is related to the **Face Recognition Server** object (it is necessary to create the corresponding object in the *Intellect* software).

To create the **Face counter report (detailed by servers)**, do the following:

1. Select the **Face counter report (detailed by servers)** (see [Selecting a type of reports by People Counter detector](#)). 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 1
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 3
Step:	60 4
Maximum value:	For whole period ▼ 5
Time zone:	[not apply] ▼ 6
Chart:	<input checked="" type="checkbox"/> 7
Layout:	Landscape ▼ 8
Sum result:	<input type="checkbox"/> 9
Execute 10	

2. Set the report parameters in the following way:
 - a. In the **Detectors** field set checkboxes in those **Face Recognition Server** objects information on which should be displayed in the report (1).
 - b. Set the **Add total per day** checkbox to display sum of positions per day (2).
 - c. Specify the period in the following way:
 - i. From the **Receiving data period** drop-down list select the time period for which the report is to be created (3).
 - ii. 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.

Note

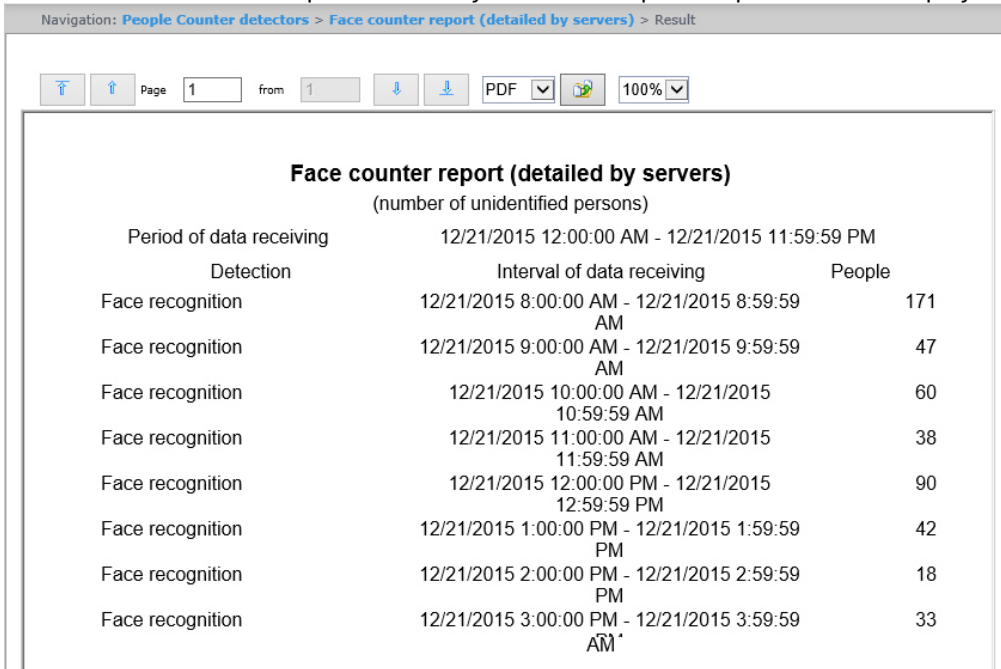
Click the  button near the corresponding field to use the **Calendar** tool.

- iii. 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.
- iv. If another period type is selected, specifying the date of start and end periods is not needed.
- d. Enter a time period (in minutes) during which the values received from people counter detector will be summarized in the **Step** field (4).
- e. From the **Maximum value** drop-down list select a maximum value of people that will be displayed in a chart (5).
- f. From the **Time zone** drop-down list select time zone by which report is to be created (6).

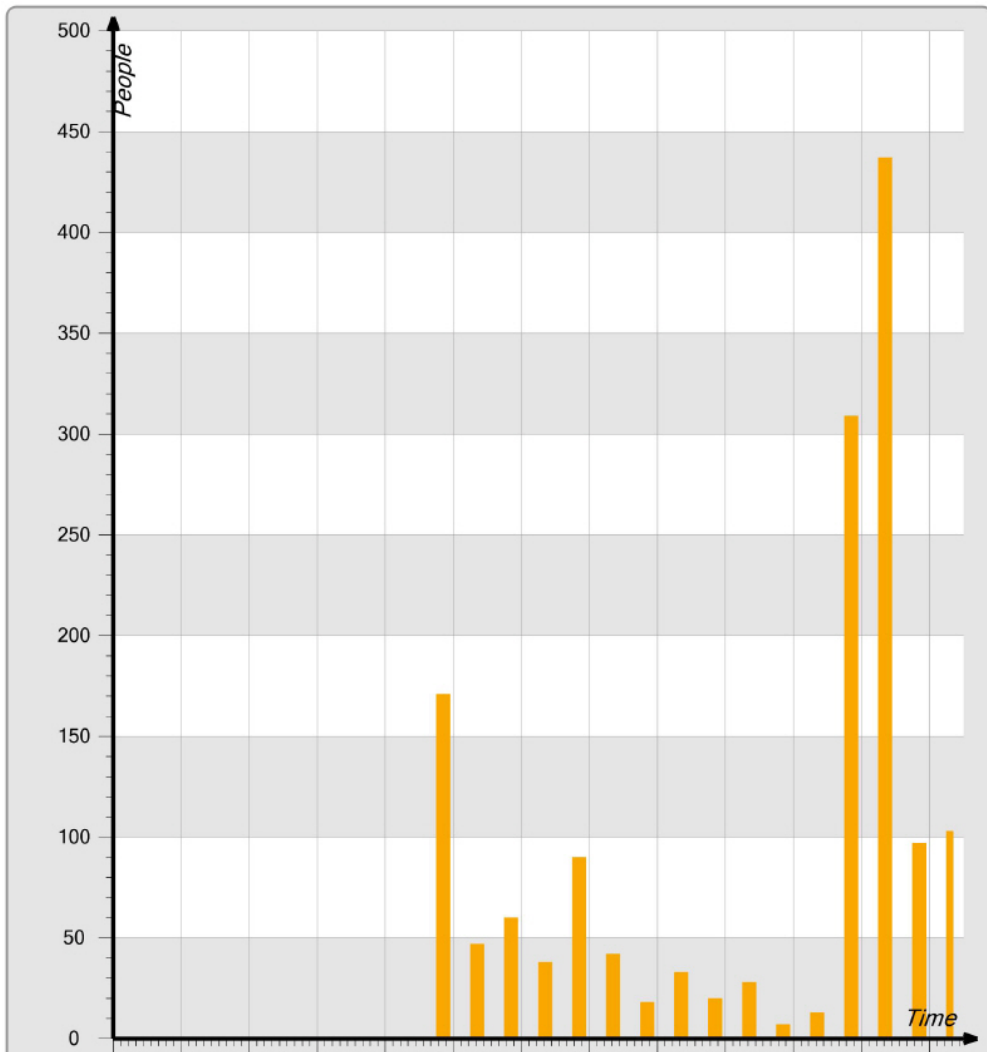
Note.

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.

- g. If it is necessary to view a report as a chart, set the corresponding checkbox (7).
 - h. In the **Layout** field, select the print layout of the report: **Portrait, Landscape** (8).
 - i. Set the **Sum results** checkbox to display sum result by selected detections in the report (9).
3. To create a report click **Execute** (10).
4. As a result a face counter report detailed by servers with specified parameters is displayed.



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

**Note**

The number of people (persons) in the report means the number of captured faces, not the number of unique visitors.

If there is no data for specified time period, the report will be displayed as in the following figure.

The screenshot displays the Intellect Web Report System interface. At the top, there is a header with a folder icon and the text 'Report System 3.4.0.944'. Below this, there are two tabs: 'People Counter detectors' and 'Queue Length detectors'. A navigation breadcrumb shows 'People Counter detectors > Face counter report (detailed by servers) > Result'. A toolbar contains icons for home, back, page navigation (Page 1 from 1), download, PDF export, and zoom (100%). The main content area features the 'axxonsoft' logo with the tagline 'EXPERIENCE THE NEXT'. Below the logo, the text reads 'Face counter report (detailed by servers)' and 'There is no data for the selected period'.

8.5.5 Creating a Face counter report (detailed by cameras)

The **Face counter report (detailed by cameras)** allows getting data about the number of captured faces (people/persons) using data from the video cameras. The data can be presented as a table and a chart.

Note



The **Face counter report (detailed by cameras)** is related to the **Camera** object (it is necessary to create the corresponding object in the *Intellect* software).

To create the **Face counter report (detailed by cameras)**, do the following:

1. Select the **Face counter report (detailed by cameras)** (see [Selecting a type of reports by People Counter detector](#)). As a result the dialog box for specifying the report parameters will be displayed.

2. Set the report parameters in the following way:
 - a. In the **Cameras** field set checkboxes for those **Camera** objects, the information on which should be displayed in the report (1).
 - b. Set the **Add total per day** checkbox to display sum of positions per day (2).
 - c. Specify the period in the following way:
 - i. From the **Receiving data period** drop-down list select the time period for which the report is to be created (3).
 - ii. 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.

Note

Click the  button near the corresponding field to use the **Calendar** tool.
 - iii. 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.
 - iv. If another period type is selected, specifying the date of start and end periods is not needed.
- d. Enter a time period (in minutes) during which the values received from people counter detector will be summarized in the **Step** field (4).
- e. From the **Maximum value** drop-down list select a maximum value of people that will be displayed in a chart (5).
- f. 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.

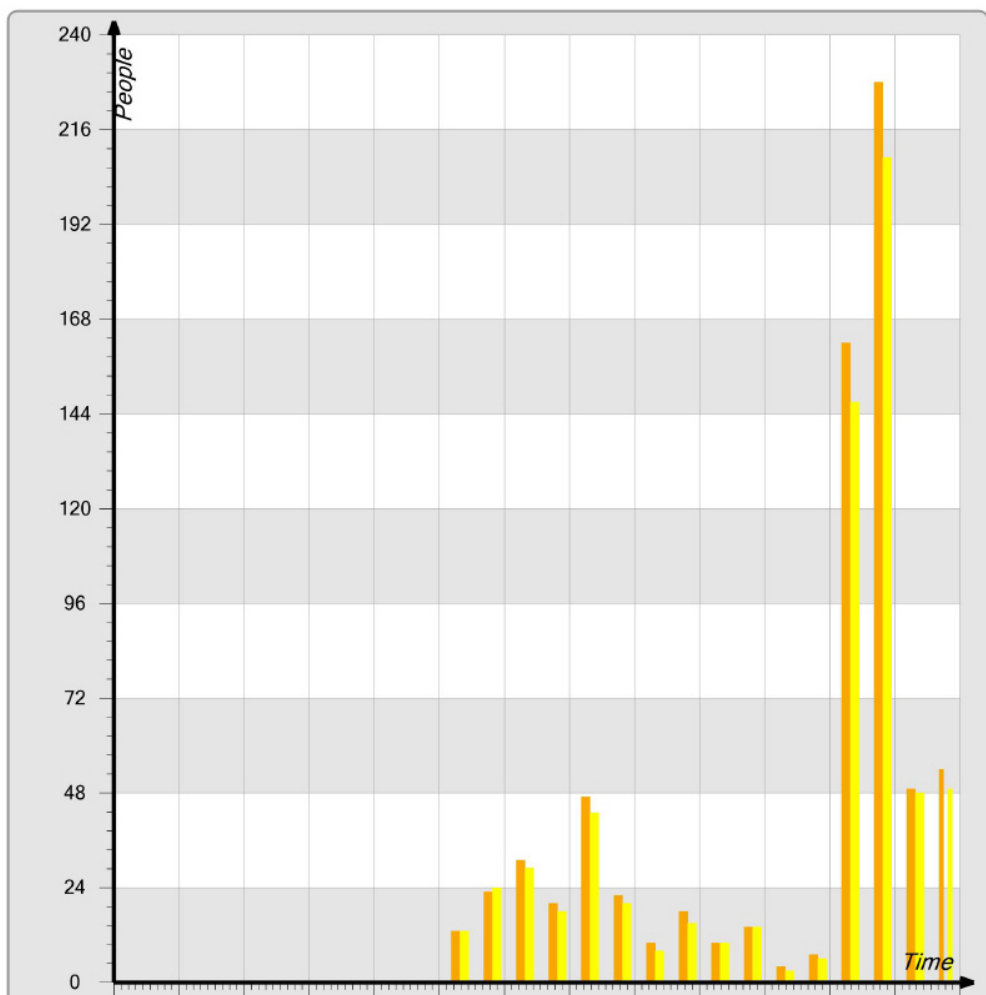
- g. If it is necessary to view a report as a chart, set the corresponding checkbox (7).
 - h. In the **Layout** field, select the print layout of the report: **Portrait, Landscape** (8).
 - i. Set the **Sum result** checkbox to display sum result by selected detections in the report (9).
3. To create a report click **Execute** (10).
4. 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	12/21/2015 12:00:00 AM - 12/21/2015 11:59:59 PM		
camera	Interval of data receiving		People
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

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

**Note**

The number of people (persons) in the report means the number of captured faces, not the number of unique visitors.

8.5.6 Creating a Face counter report (detailed by detectors)

The **Face counter report (detailed by detectors)** allows getting the data about the number of captured faces (people/ persons) using the data from the face detectors. The data can be presented only as a table.

Note

The **Face counter report (detailed by detectors)** is related to the **Face detector** object (it is necessary to create the corresponding object in the *Intellect* software).

To create the **Face counter report (detailed by detectors)**, do the following:

1. Select the **Face counter report (detailed by detectors)** (see [Selecting a type of reports by People Counter detector](#)). As a result the dialog box for specifying the report parameters will be displayed.

General reports Visitors behavior analysis **People Counter detectors** Queue Length detectors

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


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

Execute 3

2. Set the following report parameters:
 - a. In the **Detectors** field set checkboxes in those **Face detectors** objects information on which should be displayed in the report (1).
 - b. Specify the period in the following way:
 - i. From the **Receiving data period** drop-down list select the time period for which the report is to be created (2).
 - ii. 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.

Note

Click the  button near the corresponding field to use the **Calendar** tool.

- iii. 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.
- iv. 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).
4. 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	

Note

The number of people (persons) in the report means the number of captured faces, not the number of unique visitors.

If there is no data for specified time period, the report will be displayed as in the following figure.

The screenshot displays the Intellect Web Report System interface. At the top, there is a dark header with the text 'Report System 3.4.0.944'. Below this, a navigation bar shows 'People Counter detectors' and 'Queue Length detectors'. The main navigation path is 'People Counter detectors > Face counter report (detailed by detectors) > Result'. A toolbar contains icons for search, navigation, and document actions, along with 'Page 1 from 1', 'PDF', and '100%' settings. The main content area features the 'axxonsoft' logo and the text '(number of unidentified persons)' and 'Period of data receiving 7/2/2018 4:08:00 PM - 7/2/2018 4:08:00 PM'. At the bottom, a message states 'There is no data for the selected period'.

8.5.7 Gender analytics report

The **Gender analytics report** allows you to receive the data on gender analytics from *Face-Intellect* for a certain time period. The data is displayed in graph.

Note

The **Gender analytics report** refers to the **People Counter detectors** module and **Face Recognition Server** (it is necessary to create and configure the corresponding objects in *Intellect*).

To build the **Gender analytics report**, do the following:

1. Select the **Gender analytics report** (see [Selecting a type of reports by People Counter detector](#)). As a result the dialog box for specifying the report parameters will be displayed.

Parameter	Value
Face Recognition Server:	Choose: All, None View: Hide all, Show all <input checked="" type="checkbox"/> Face Recognition Server 1 <input checked="" type="checkbox"/> Camera 1
Step:	1 hour 2
Select the group type:	By gender 3
Receiving data period:	Custom 2 4 from 4 February 2020 12:00 AM to 4 February 2020 11:59 PM

Execute 5



2. Set the report parameters in the following way:
 - a. In the **Face Recognition Server** field (**1**), set the checkboxes for those **Face Recognition Server** and **Camera** objects, the information from which should be displayed in the report.
 - b. From the **Step** drop-down list (**2**), select the time period within which the data for the report will be summarized.
 - c. From the **Select the group type** drop-down list (**3**), select the type of data grouping: **By gender** or **By age**.

Note

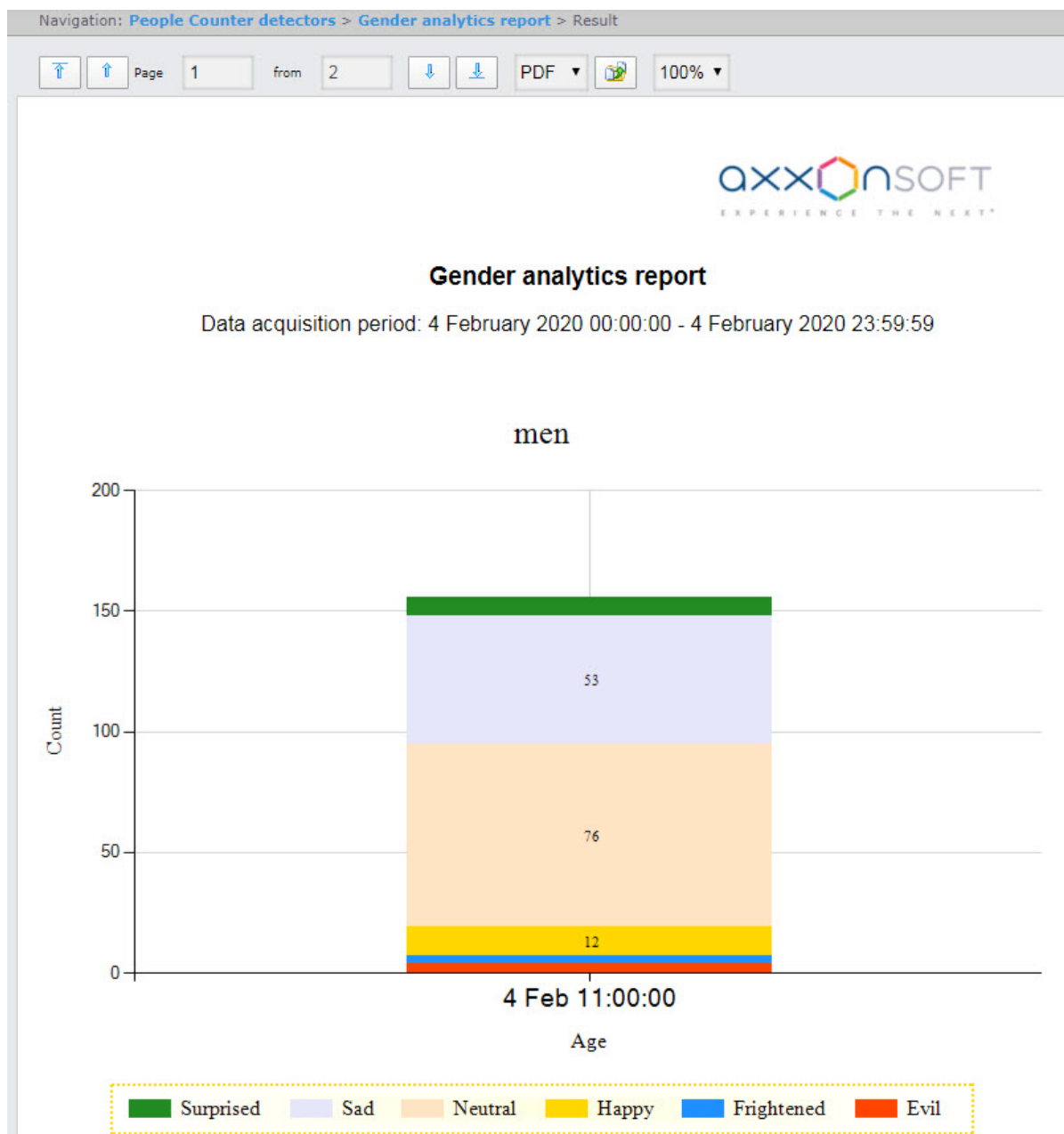
If the **By gender** grouping type is selected, the report will also contain data on the face emotions.

- d. From the **Receiving data period** drop-down list (**4**), select the time period for which you want to build a report.

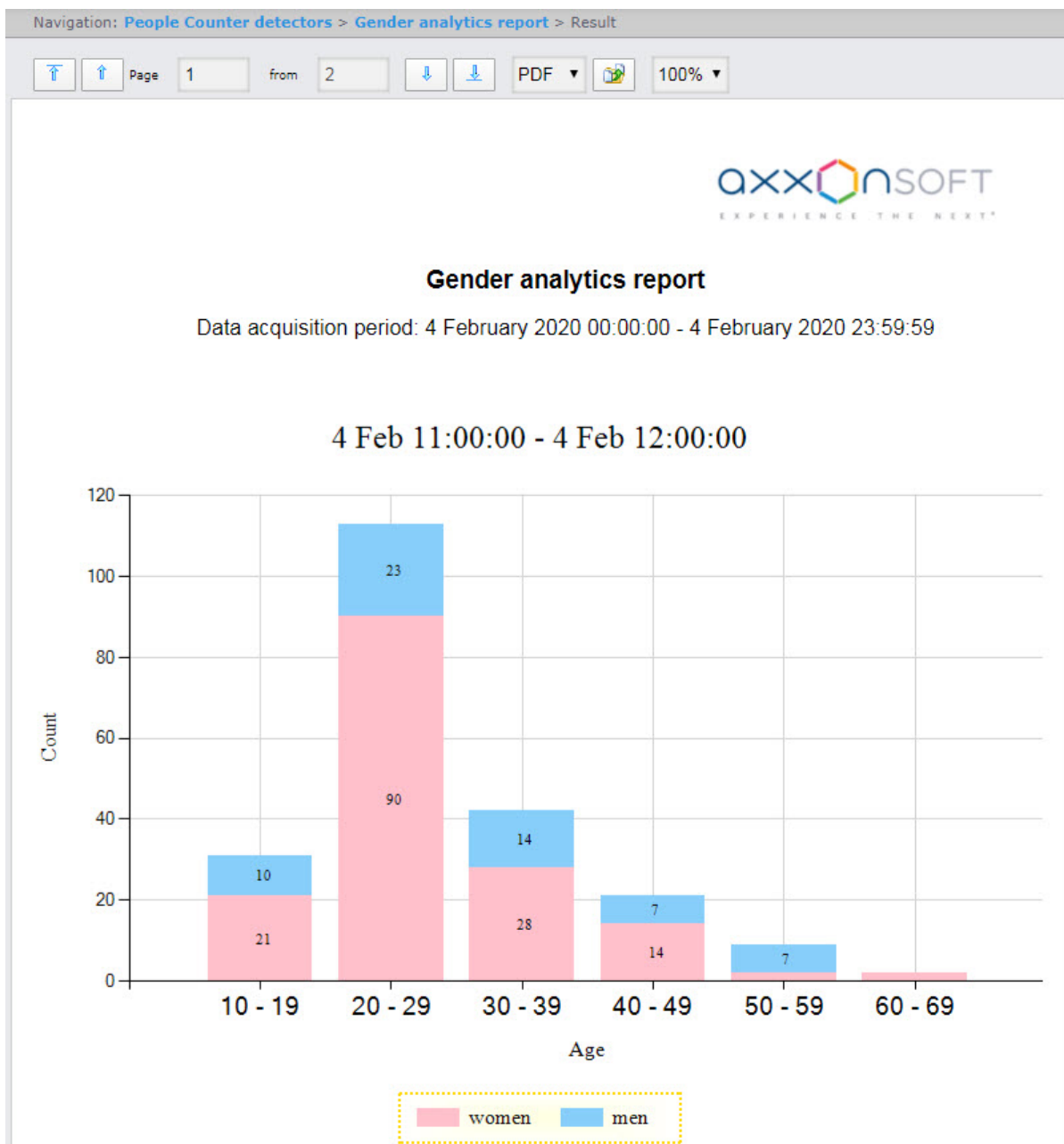
Note

If the **Custom 2** 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 (5) using the **Calendar** tool. Click the  button near the corresponding field to use the **Calendar** tool. Enter the start and end time of the period using the  button.

- To create a report, click **Execute (5)**. As a result, the report with specified parameters is displayed. The report example of the **By gender** grouping type:



The report example of the **By age** grouping type:

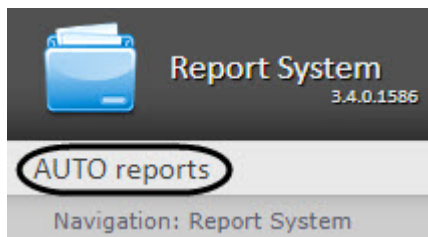


8.6 Working with AUTO reports

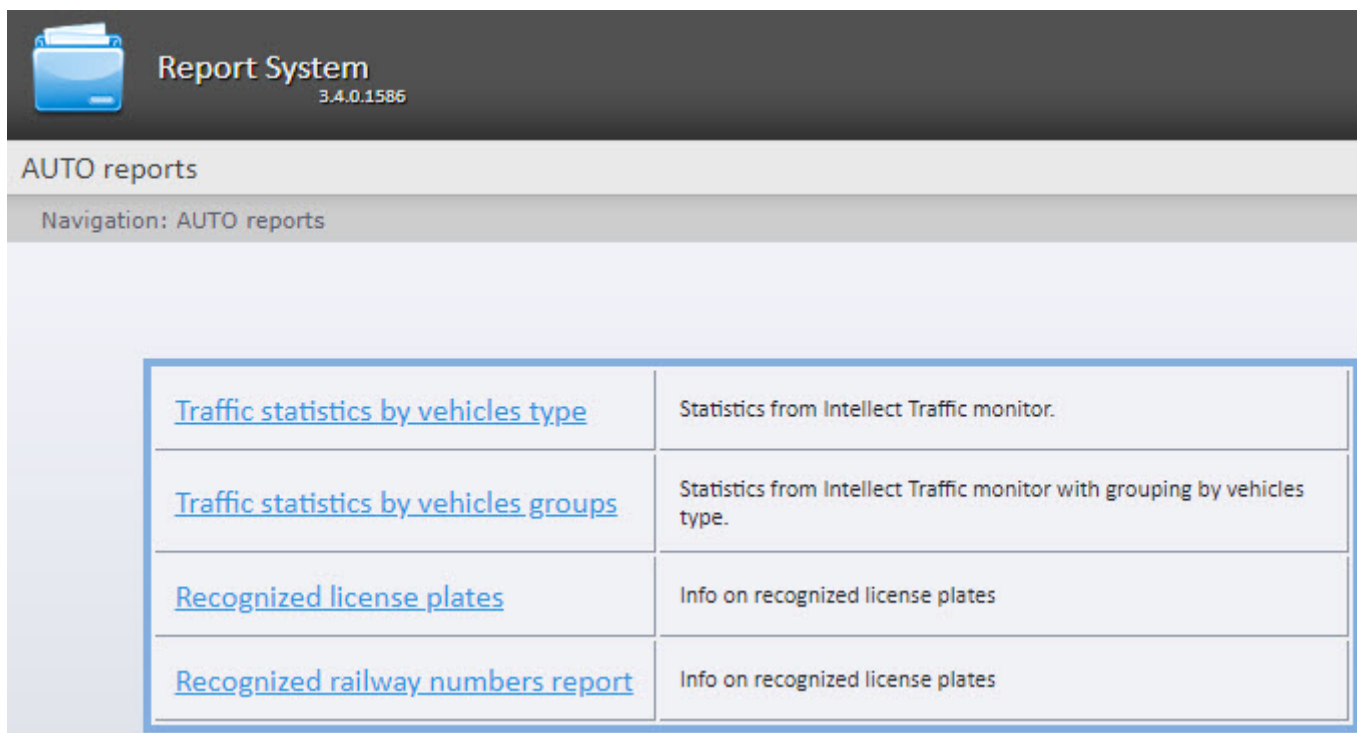
Working with AUTO reports consists of selecting the necessary report type and creating a report. You can find the description of each report type on the corresponding page.

8.6.1 Selecting the type of Auto report

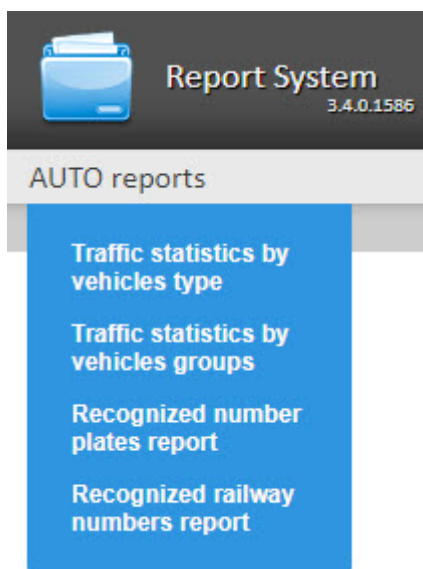
To select the type of Auto report click **AUTO reports** link in the report menu of *Intellect Web Report System*.



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



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



8.6.2 Traffic statistic by vehicles groups

The **Traffic statistic by vehicles groups** report allows getting statistical data for each specified group of vehicles. Vehicles group is a set of several vehicles types.

Note

The **Traffic statistic by vehicles groups** report is related to the **Traffic detector** and **Vehicle processor** modules (it is necessary to create the corresponding object in the *Intellect* software).

To create the **Traffic statistic by vehicles groups** report, do the following:

1. Select the **Traffic statistic by vehicles groups** report type (see [Selecting the type of Auto report](#)). As a result the dialog box for specifying the report parameters will be displayed.


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

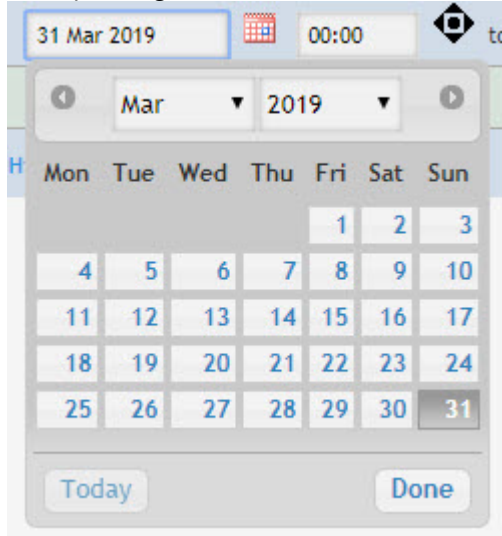
Traffic statistics by vehicles groups


Parameter	Value
Period:	1 User 2 ▼ from 31 Mar 2019 00:00 to 31 Mar 2019 23:59 2
Transport detection:	Traffic detector 1 ▼ 3
Lanes:	Choose: All , None View: Hide all , Show all <div style="border: 1px solid black; border-radius: 15px; padding: 5px; display: inline-block;"> <input checked="" type="checkbox"/> Lane0 <input checked="" type="checkbox"/> Lane1 <input type="checkbox"/> Lane2 <input type="checkbox"/> Lane3 <input type="checkbox"/> Lane4 <input type="checkbox"/> Lane5 </div> 4
Vehicle groups:	Choose: All , None View: Hide all , Show all <div style="border: 1px solid black; border-radius: 15px; padding: 5px; display: inline-block;"> <input checked="" type="checkbox"/> Small vehicles <input checked="" type="checkbox"/> Medium vehicles <input checked="" type="checkbox"/> Large vehicles </div> 5
Displayed data:	Choose: All , None View: Hide all , Show all <div style="border: 1px solid black; border-radius: 15px; padding: 5px; display: inline-block;"> <input checked="" type="checkbox"/> General number of vehicles <input checked="" type="checkbox"/> Average speed km/h <input checked="" type="checkbox"/> Number of violation <input checked="" type="checkbox"/> Speed exceeding <input checked="" type="checkbox"/> Moving in oncoming lane <input checked="" type="checkbox"/> Number of vehicle stops <input checked="" type="checkbox"/> Average workload of road <input checked="" type="checkbox"/> Traffic jam </div> 6

Execute 7

2. Specify the report parameters in the following way:

- a. In the **Period** drop-down list select the time period for which the report is to be created (1).
- i. 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.



- ii. 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.
- iii. If another period type is selected, specifying the date of start and end periods is not needed.
- b. In the **Transport detection** drop-down list select the **Transport detection** object or the **Vehicle processor** object, which data should be used in the report (3).

Note

Only one object can be selected in the **Transport detection** drop-down list. The content of the list depends on the *Auto-Intellect* configuration.

- c. 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.

- d. 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);
 - Medium vehicles (the group includes cargo vehicles less than 12 m);
 - Large vehicles (the group includes cargo vehicles more than 12 m and buses).

Note

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

- e. 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.

3. Click **Execute** to create the report (7).
4. 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	57.2	0	0	0	10	9.7	0
Small vehicles	2615	55.7	0	0	0	3	9.9	0
Medium vehicles	1002	69.9	0	0	0	3	9.7	0
Large vehicles	844	46.5	0	0	0	4	9.2	0
Lane 4	4631	87.8	0	0	0	6	9.4	0
Small vehicles	3486	89.4	0	0	0	6	9.5	0
Medium vehicles	678	64.3	0	0	0	0	9.4	0
Large vehicles	467	109.6	0	0	0	0	8.6	0
Lane 5	0	0.0	0	0	0	0	0.0	0

8.6.3 Traffic statistic by vehicles type

The **Traffic statistic by vehicles type** report allows getting statistical data for each specified type of vehicles. Vehicle type is a set of vehicles the sizes of which are within the certain intervals.

Note

The **Traffic statistic by vehicles type** report is related to the **Traffic detector** and **Vehicle processor** modules (it is necessary to create the corresponding object in the *Intellect* software).

To create the **Traffic statistic by vehicles type** report, do the following:

1. Select the **Traffic statistic by vehicles type** report type (see [Selecting the type of Auto report](#)). As a result the dialog box for specifying the report parameters will be displayed.


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

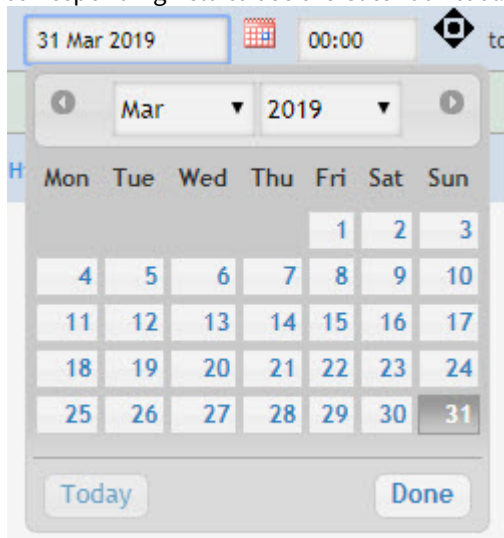
Traffic statistics by vehicles type


Parameter	Value
Period:	 User 2 from 31 Mar 2019 00:00 to 31 Mar 2019 23:59
Transport detection:	Traffic detector 1
Lanes:	<p>Choose: All, None View: Hide all, Show all</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Lane0 <input checked="" type="checkbox"/> Lane1 <input type="checkbox"/> Lane2 <input type="checkbox"/> Lane3 <input type="checkbox"/> Lane4 <input type="checkbox"/> Lane5
Displayed data:	<p>Choose: All, None View: Hide all, Show all</p> <ul style="list-style-type: 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
Types of vehicles:	<p>Choose: All, None View: Hide all, Show all</p> <ul style="list-style-type: none"> <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

Execute 7

2. Specify the report parameters in the following way:

- a. In the **Period** drop-down list select the time period for which the report is to be created (1).
- i. 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.



- ii. 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.
- iii. If another period type is selected, specifying the date of start and end periods is not needed.
- b. In the **Transport detection** drop-down list select the **Transport detection** object or the **Vehicle processor** object, which data should be used in the report (3).

Note

Only one object can be selected in the **Transport detection** drop-down list. The content of the list depends on the *Auto-Intellect* configuration.

- c. 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.

- d. In the **Types of vehicles** list set checkboxes next to those vehicle types data of which is to be included in the report (5). The following types of vehicles can be selected:
- Cars;
 - Cargo vehicles less than 12 m;
 - Cargo vehicles more than 12 m;
 - Buses.

Note

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

- e. 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.

3. Click **Execute** to create the report (7).
4. As a result the report in the selected form is displayed.

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

Page 1 from 1 PDF 100%

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

8.6.4 Recognized license plates

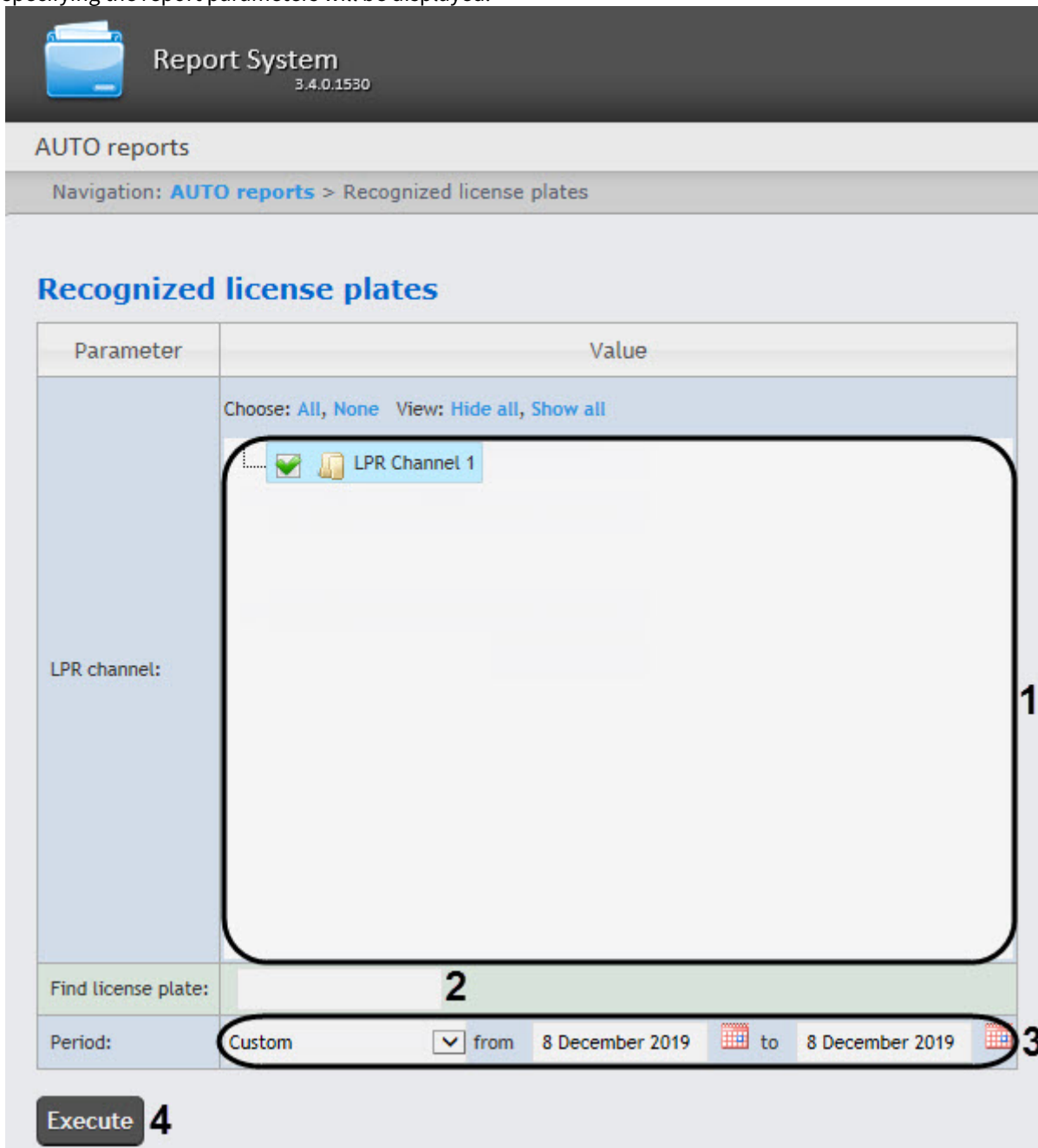
The **Recognized license plates** report allows getting data about the license plates recognized within a specified time period.

Note

The **Recognized license plates** report is related to the **LPR Channel** module (it is necessary to create the corresponding object in the *Intellect* software)

To create the **Recognized license plates** report, do the following:

1. Select the **Recognized license plates** report type (see [Selecting the type of Auto report](#)). As a result the dialog box for specifying the report parameters will be displayed.



2. Specify the report parameters in the following way:

Note
The choice of LPR Channels and the period is mandatory, the remaining filters are optional.

- a. In the **LPR channel** field, set the check boxes for the license plate readers according to which the report will be built (1).
 - b. In the **Validity %** field, specify the minimum validity (accuracy of recognition) (2).
 - c. In the **Find license plate** field, you can specify a certain LP number by which all recognition events will be searched (3). Otherwise, the report will be built by all LP numbers recognized at the specified time interval.
 - d. From the **Period** drop-down list, select the time interval for which the report should be built (4). You can specify a custom interval by selecting **User 2** and using the calendar tool.
4. Click **Execute** to run the report.

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

The report table contains the vehicle numbers, recognition accuracy (validity), date and the reader that recognized the number. When you click on the row of the table, a screenshot from the camera (in the lower right corner of the report) is displayed and if there is access to the video archive, the video is played (in the upper right corner of the report).

Navigation: [AUTO reports](#) > [Recognized license plates](#) > Result

Recognized license plates

from 2 December 2019 00:00:00 to 8 December 2019 23:59:59

You can save report in the following formats:

	Recognized license plates	Precision %	Date	LPR channel	Speed km/h
226	A282CX163	79	5 Dec 16:16	LPR Channel 1	unknown
227	BM59863	63	5 Dec 16:17	LPR Channel 1	unknown
228	M843BA163	81	5 Dec 16:17	LPR Channel 1	unknown
229	M763KO163	70	5 Dec 16:17	LPR Channel 1	unknown
230	K673YK163	83	5 Dec 16:17	LPR Channel 1	61 km/h
231	E183MC163	83	5 Dec 16:17	LPR Channel 1	62 km/h
232	E322YC163	74	5 Dec 16:17	LPR Channel 1	unknown
233	E034CP63	71	5 Dec 16:17	LPR Channel 1	unknown
234	A111111	36	5 Dec 16:17	LPR Channel 1	unknown
235	BC01763	62	5 Dec 16:17	LPR Channel 1	67 km/h
236	M942BY163	81	5 Dec 16:17	LPR Channel 1	53 km/h
237	A282CX163	79	5 Dec 16:17	LPR Channel 1	unknown
238	BM59863	63	5 Dec 16:18	LPR Channel 1	unknown
239	M843BA163	81	5 Dec 16:18	LPR Channel 1	unknown
240	M763KO163	70	5 Dec 16:18	LPR Channel 1	unknown
241	K673YK163	83	5 Dec 16:18	LPR Channel 1	61 km/h
242	E183MC163	83	5 Dec 16:18	LPR Channel 1	63 km/h

Камера 1

Дата фиксации - 05-12-2019 Скорость ТС - 47 км/ч Направление контроля - к Камере
 Время фиксации - 15:57:30.707 Разрешенная скорость - 40 км/ч Номер прибора - 1
 Место контроля - Камера 1

Important!

If the recognized LP images and the vehicle frames are stored in a folder on a disk, then to display the screenshots from the camera, it is necessary to pre-configure the **Recognized license plates** report (see [Setting up the Recognized license plates report](#)).

Warning!

The report can only be viewed online. Downloading the report in various formats or auto-sending is not available.

8.6.5 Recognized railway numbers report

Report System
3.4.0.1586

AUTO reports

Navigation: **AUTO reports** > Recognized railway numbers report

Recognized railway numbers report

Parameter	Value
LPR channel:	<p>Choose: All, None View: Hide all, Show all</p> <p><input checked="" type="checkbox"/> <input type="checkbox"/> LPR channel 1</p>
Find license plate:	<input type="text"/>
Period:	Custom ▼ from 29 January 2020 <input type="calendar"/> to 29 January 2020 <input type="calendar"/>

Execute 4

Navigation: AUTO reports > Recognized railway numbers report > Result

Recognized license plates

from 5 February 2020 00:00:00 to 5 February 2020 23:59:59

You can save report in the following formats: Excel Save

	Recognized license plate(s)	Validity %	Date	Checksum check	LPR channel	Speed, km/h	Photo from a synchro
1	99772279	5	5 Feb 09:35	Fail	LPR channel 1	unknown	Show
2	77890671	2	5 Feb 09:35	Fail	LPR channel 1	unknown	Show
3	99772279	5	5 Feb 09:35	Success	LPR channel 1	unknown	Show
4	11770757	8	5 Feb 09:36	Fail	LPR channel 1	unknown	Show
5	99772279	5	5 Feb 09:37	Fail	LPR channel 1	unknown	Show
6	79112127	18	5 Feb 09:37	Fail	LPR channel 1	unknown	Show
7	99772279	4	5 Feb 09:37	Success	LPR channel 1	unknown	Show
8	77890671	2	5 Feb 09:37	Fail	LPR channel 1	unknown	Show
9	71197164	7	5 Feb 09:37	Fail	LPR channel 1	unknown	Show
10	11770757	8	5 Feb 09:38	Fail	LPR channel 1	unknown	Show

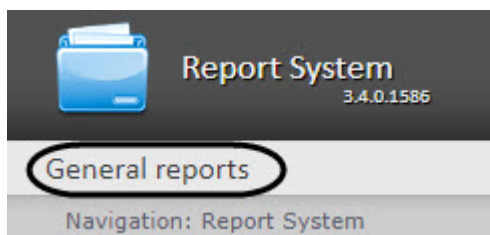
8.7 Working with general reports

8.7.1 Selecting the type of general report

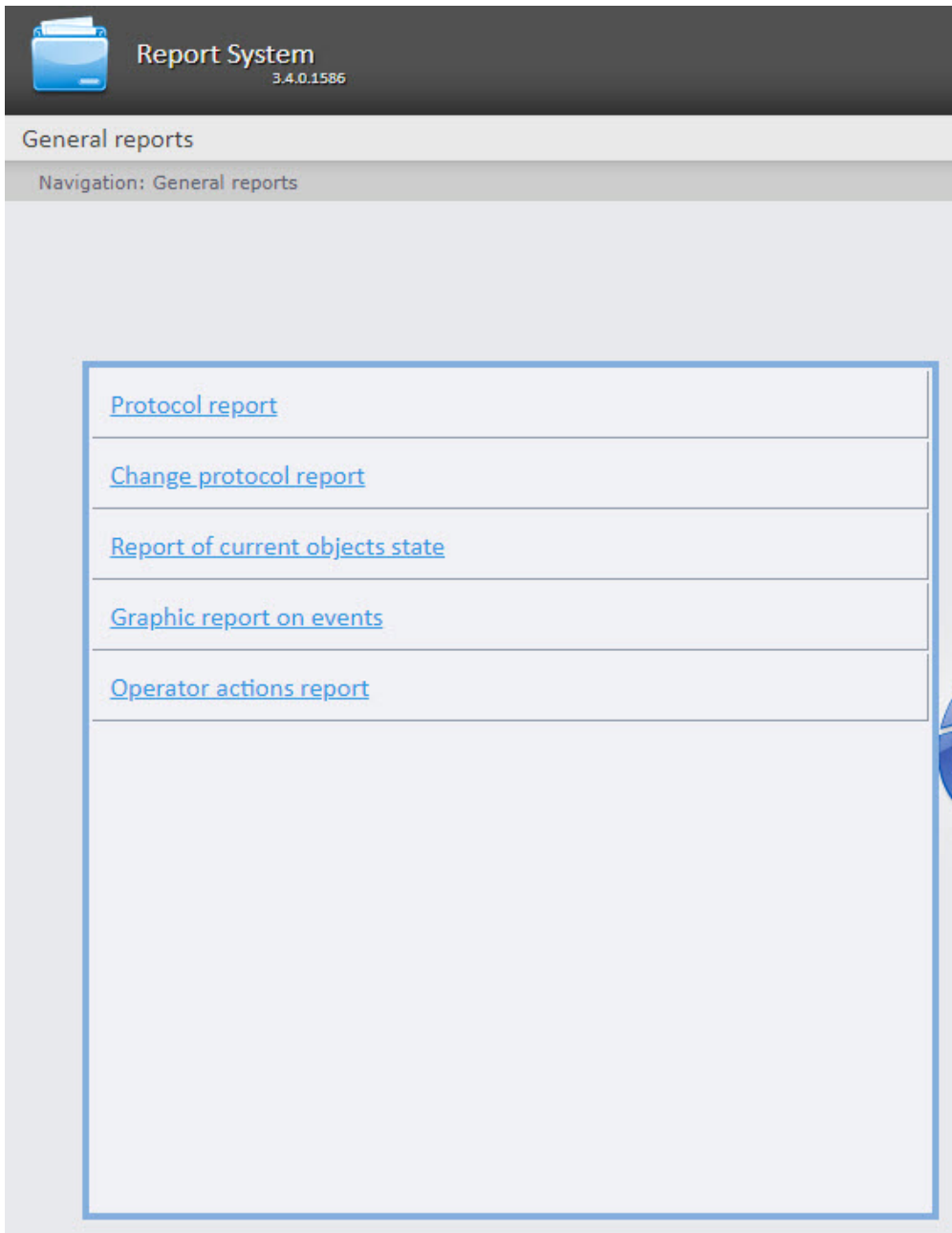
It is possible to create the following general reports:

1. Protocol report. This report allows getting information on events presence from specified objects.
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.
4. Graphic report on events. This report allows getting information about the specified objects events in the form of a chart.
5. Operator actions report. This report allows getting information on events presence from specified objects by selected operators.

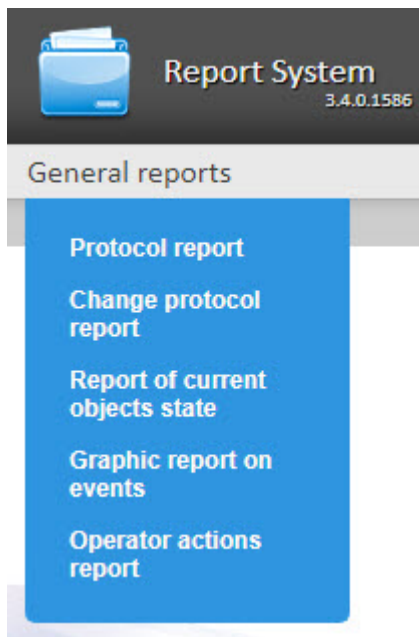
To select a type of general report click **General reports** link in the report menu of *Intellect Web Report System*.



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.



8.7.2 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	>> <<	<ul style="list-style-type: none"> <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 necessary object type from the objects and events list (1).

Note


It is possible to select the view of the list of objects and events (see [Selecting the view of the list of objects and events for the Protocol report](#)).

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 the rule by which the filter will be applied when generating the report (6).
 - **No** - the filter will not be applied.
 - **Equals** - the report will be generated only for those events where the Information column content is strictly equal to the filter value specified in the **Filter text** field (7).
 - **Contains** - the report will be generated only for those events where the Information column contains the filter value specified in the **Filter text** field (7).

Note

The report is filtered only by the Information column (see the report fields description in the table below).

8. In the **Filter text:** field enter the value for the report filtering (7).
9. In the **Maximum of output strings:** field enter the number of output strings in the protocol report (8).
10. Specify the period as follows:
 - a. From the **Period** dropdown 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 next to the corresponding field to use the **Calendar** tool.



- c. If the **User defined 2** period is selected, specify 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.

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	Record off		1/17/2014 8:14:09 A	WS4
2	Camera 1	Connection lost		1/17/2014 8:14:10 A	WS4
3	Camera 1	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 blue in the image).

Part 2: Video player showing a camera feed. The video title is "Камера 2". The player shows a timestamp of 12:04:31 and a progress bar.

Part 3: A placeholder image area showing a red 'X' icon, indicating that no image is available for the selected event.

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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.

Report System
3.4.0.914

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

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Protocol report
 Period: 6/1/2018 11:18:00 AM - 6/1/2018 11:23:00 AM

Source	Object type	Event	Information	Date	Computer
Event manager 1	Event manager	Button is pressed	Disarm. (LOCALHOST)	6/1/2018 11:18:54 AM	WORK-PC
Operator reaction 1	Operator reaction	Action is completed	Camera 1, Disarm. (LOCALHOST) [Comment 1]	6/1/2018 11:18:54 AM	WORK-PC
Event manager 1	Event manager	Button is pressed	Disarm. (LOCALHOST)	6/1/2018 11:19:07 AM	WORK-PC
Operator reaction 1	Operator reaction	Action is completed	Camera 1, Disarm. (LOCALHOST) [Comment 2]	6/1/2018 11:19:07 AM	WORK-PC
Event manager 1	Event manager	Button is pressed	Disarm. (LOCALHOST)	6/1/2018 11:19:20 AM	WORK-PC
Operator reaction 1	Operator reaction	Action is completed	Camera 1, Disarm. (LOCALHOST) [Comment 3]	6/1/2018 11:19:20 AM	WORK-PC

Total events: 6

The description of report fields is given in the table.

Field name	Description
Source	Source object of the event <i>Note. The information in this column is received from the objid column of the dbo.PROTOCOL table of the Intellect database</i>
Object type	Type of source object of the event <i>Note. The information in this column is received from the objtype column of the dbo.PROTOCOL table of the Intellect database</i>
Event	Name of the event <i>Note. The information in this column is received from the action column of the dbo.PROTOCOL table of the Intellect database</i>
Information	Information on the event <i>Note. The information in this column is received from the param0 column of the dbo.PROTOCOL table of the Intellect database</i>
Date	Date and time of the event <i>Note. The information in this column is received from the date column of the dbo.PROTOCOL table of the Intellect database</i>
Computer	Name of the computer where the event happens

Note

For details about the dbo.PROTOCOL table, see [Base Intellect database tables](#).

Note

The operator's comment confirming the event in [Event Manager](#) module is specified in square brackets in the **Information** field (see [Example of working with the Event manager module](#)).

Attention!

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

8.7.3 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.

Report System
3.5.0.1615

General reports
Navigation: [General reports](#) > Change protocol report

Change protocol report

Parameter	Value
Operators:	Choose: All , None View: Hide all , Show all <input checked="" type="checkbox"/> John Wick <input type="checkbox"/> Unauthorized user
Delete objects:	<input checked="" type="checkbox"/> 2
Create objects:	<input checked="" type="checkbox"/> 3
Object change :	<input checked="" type="checkbox"/> 4
Object:	Choose: All , None View: Hide all , Show all <input type="checkbox"/> Access Manager reports <input type="checkbox"/> AUTO reports <input checked="" type="checkbox"/> Camera <input checked="" type="checkbox"/> Camera 1 <input checked="" type="checkbox"/> Computer <input type="checkbox"/> Customer behavior reports <input type="checkbox"/> Department <input type="checkbox"/> Display <input type="checkbox"/> General reports <input type="checkbox"/> Intrepid II System <input type="checkbox"/> POS reports
Period:	Custom ▼ from 17 February 2020 to 17 February 2020

Execute 7

3. In the **Operators** field (1) set checkboxes in those users who have rights to change objects.

Note

The **Unauthorized user** value means change of system by unauthorized user, deleted user and/or user with deleted rights.


4. To display deleted objects in the report, set the **Delete objects** checkbox (2).
5. To display created objects in the report, set the **Create objects** checkbox (3).
6. To display edited objects in the report, set the **Objects change** checkbox (4).
7. In the **Object** field set checkboxes in those types of objects to which the changed, created or removed object belongs (5).

Note

Any objects can be selected by expanding the object type list.

8. From the **Period** drop-down list select the time period for which the report is to be created (6).

Note


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.

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

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

Navigation: [General reports](#) > [Change protocol report](#) > Result

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Change protocol report

Period 17 February 2020 00:00:00 - 17 February 2020 23:59:59

Object type	Object name	Event	User	Date	Computer	Changes
Video capture device	Video capture device 1 [1]	Creating	John Wick [1]	17 Feb 17:35:26	WORK-PC	
Camera	Camera 1 [1]	Creating	John Wick [1]	17 Feb 17:35:30	WORK-PC	
User[PERSON]	Donne [2]	Creating	John Wick [1]	17 Feb 17:43:11	WORK-PC	
User[PERSON]	Donne [2]	Change	John Wick [1]	17 Feb 17:43:21	WORK-PC	surname <> => <Andrey>;
Display	Display 1 [1]	Change	John Wick [1]	17 Feb 17:43:43	WORK-PC	SLAVE.guid.count <1> => <0>;
Access Manager	Access Manager 1 [1]	Creating	John Wick [1]	17 Feb 17:43:46	WORK-PC	SLAVE.guid.count <1> => <0>;
Access Manager	Access Manager 1 [1]	Change	John Wick [1]	17 Feb 17:43:48	WORK-PC	DEPARTMENT.department_id.count <0> => <1>;

Events in total: 7

Note

- The ID of the object is indicated in square brackets in the end of the object name in the **Object name** field.
- The identification number of the user is indicated in square brackets at the end of the user name in the **User** field.

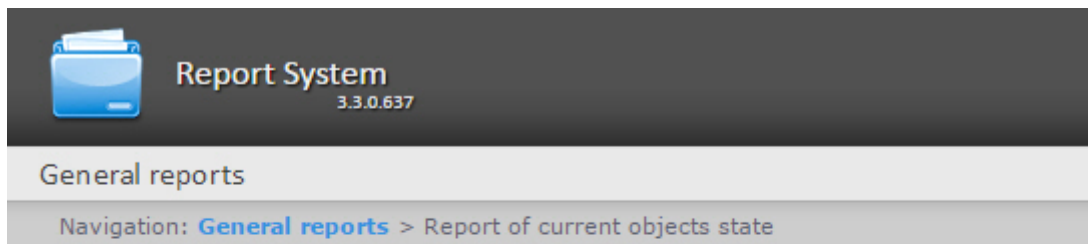
Note

In the created report objects are sorted by their ID and by the event date.

8.7.4 Creating a report of current objects state

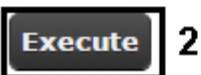
In order to create a report of current objects state, do the following:

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.



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:

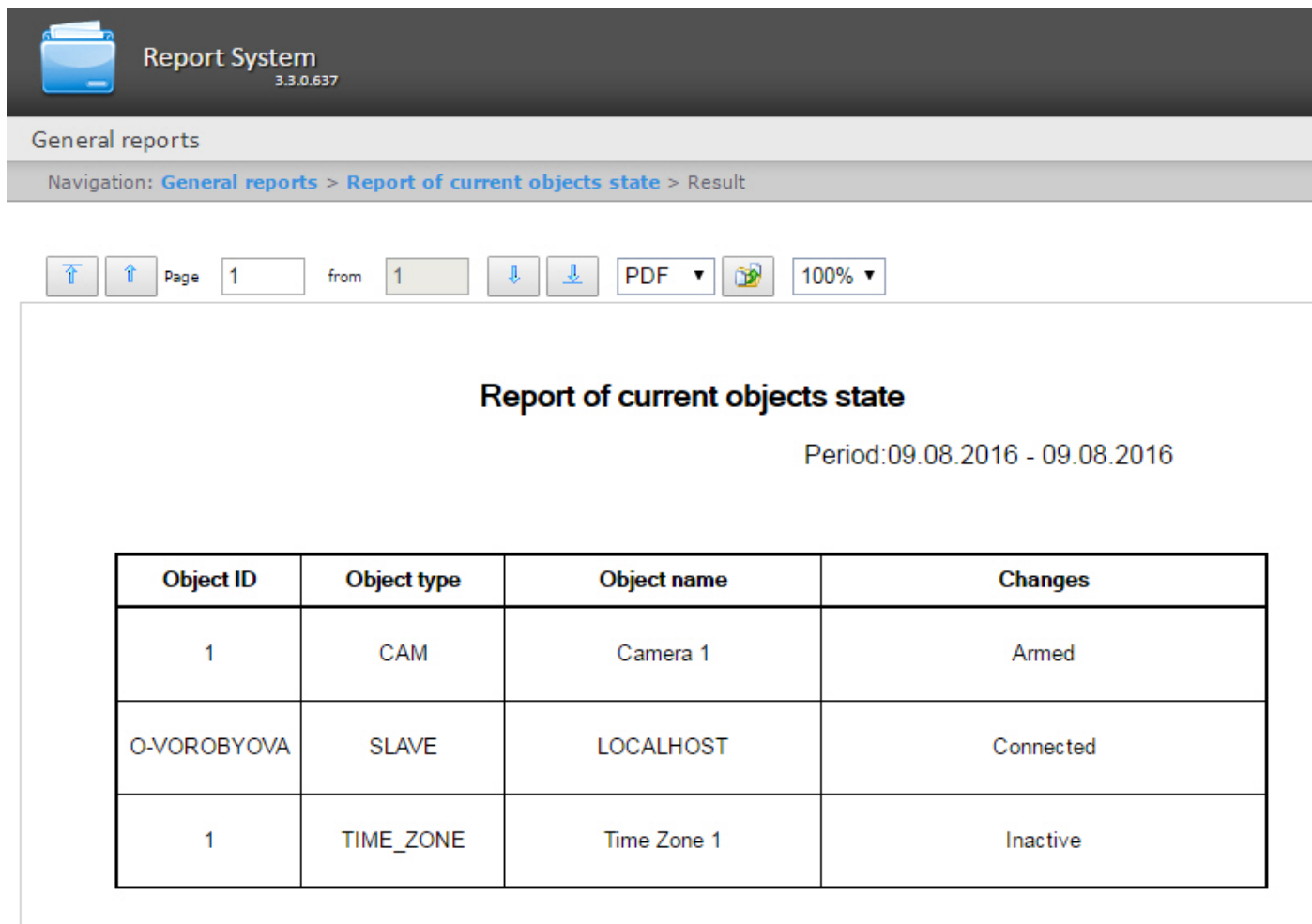
1. In the **Object:** field set checkboxes in those objects which current state is to be displayed in the report (**1**).

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.



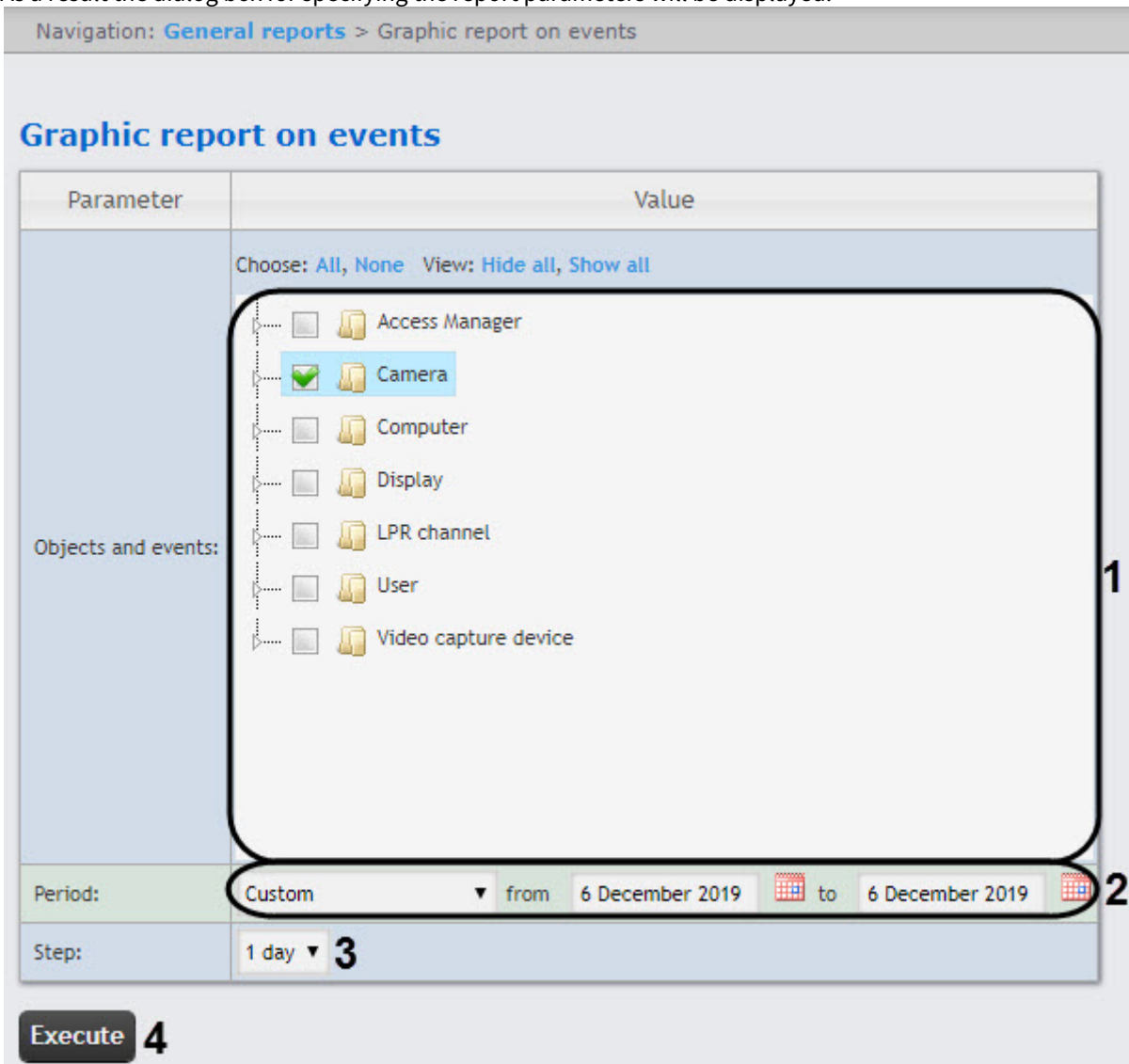
The screenshot displays the 'Report System' interface. At the top left, there is a logo of a blue folder with a document icon, followed by the text 'Report System' and the version number '3.3.0.637'. Below this is a navigation bar with the text 'General reports' and a breadcrumb trail: 'Navigation: General reports > Report of current objects state > Result'. A toolbar contains several icons: a blue folder icon, a blue folder icon with a plus sign, a 'Page' field with the value '1', a 'from' field with the value '1', two blue arrows pointing up and down, a 'PDF' dropdown menu, a printer icon, and a '100%' dropdown menu. The main content area features the title 'Report of current objects state' and the period 'Period:09.08.2016 - 09.08.2016'. Below this is a table with four columns: 'Object ID', 'Object type', 'Object name', and 'Changes'.

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

8.7.5 Creating a Graphic report on events

To create the **Graphic report on events**, do the following:

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



2. Set the report parameters in the following way:
 - a. In the **ObjectEvents** field (1) set the checkboxes for the objects and their events the information on which should be displayed in the report.

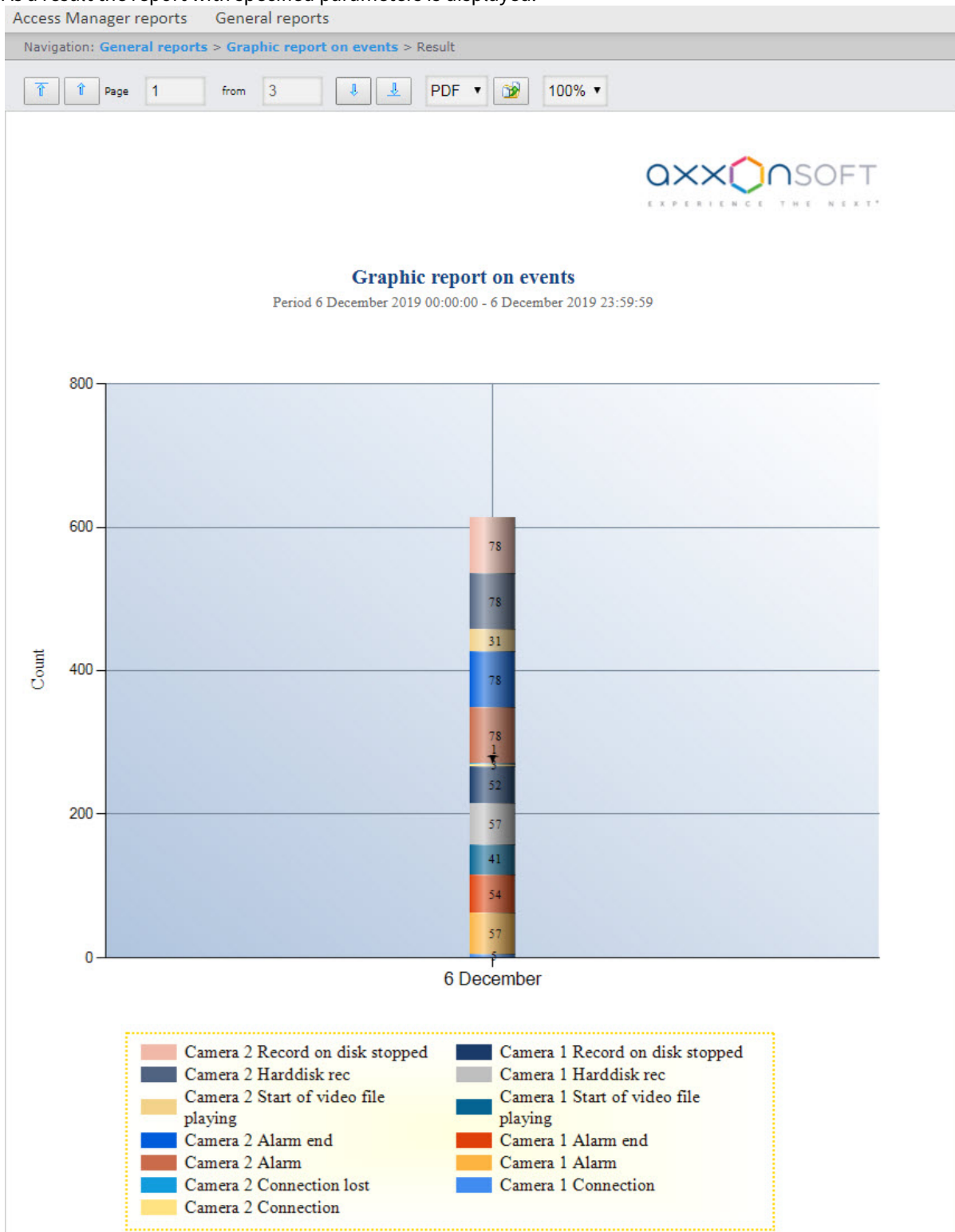
Note
You can select any event by expanding the object type list.

3. Set the time period in the following way:
 - a. From the **Period** drop-down list (2) select the time period for which the report is to be created.
 - i. If the **User** 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.

Note
Click the 📅 button near the corresponding field to use the **Calendar** tool.

4. The **Step** drop-down list (3) indicates the time period during which the data for the report is summarized.

- To create a report click **Execute (4)**.
As a result the report with specified parameters is displayed.



6. If the report is exported (see [Exporting of reports](#)), the report file will also contain the events table, sorted by the event source. This table contains the event name, event date and events number for each event source.

Source: **Camera 2**

Event: Connection

Date	Amount
6 December 2019 00:00:00	3

Event: Connection lost

Date	Amount
6 December 2019 00:00:00	1

Event: Alarm

Date	Amount
6 December 2019 00:00:00	95

Event: Alarm end

Date	Amount
6 December 2019 00:00:00	95

Event: Start of video file playing

Date	Amount
6 December 2019 00:00:00	35

Event: Harddisk rec

Date	Amount
6 December 2019 00:00:00	95

Event: Record on disk stopped

Date	Amount
6 December 2019 00:00:00	95

Source: **Camera 1**

Event: Connection

Date	Amount
6 December 2019 00:00:00	5

Event: Alarm

8.7.6 Creating an Operator actions report

To create an Operator actions report, do the following:

1. Select the **Operator actions report** type (see [Selecting the type of general report](#)).

2. As a result the dialog box for specifying the report parameters will be displayed.

Report System
3.4.0.1586

General reports
Navigation: [General reports](#) > Operator actions report

Operator actions report

Parameter	Value
Operators:	Choose: All , None View: Hide all , Show all <input checked="" type="checkbox"/> Admin Admin <input type="checkbox"/> Unauthorized user
Objects and events:	Choose: All , None View: Hide all , Show all <input type="checkbox"/> Access Manager <input checked="" type="checkbox"/> Camera <input checked="" type="checkbox"/> Camera 1 <input checked="" type="checkbox"/> Alarm <input checked="" type="checkbox"/> Alarm end <input checked="" type="checkbox"/> Armed <input checked="" type="checkbox"/> Blinding <input checked="" type="checkbox"/> Connection <input checked="" type="checkbox"/> Connection lost <input checked="" type="checkbox"/> Disarmed <input checked="" type="checkbox"/> Disk mounted
Period:	Custom from 29 January 2020 to 29 January 2020

Execute 4

Set the report parameters as follows:

1. In the **Operators** field (1), set the checkboxes for those users who have been assigned rights to make edits. The **Unauthorized user** value means that the edits in the system were made by a user who has not been authorized, or by those users who have been removed from the system and/or by users who have had their rights deleted.


2. In the **Objects and events** field (2), set the checkboxes for those types of objects and their events for which the information should be displayed in the report.

Note

You can select arbitrary objects and their events by expanding the list.

3. From the **Period** drop-down list (3) select the time period for which it is necessary to build a report.

Note


If the **Custom** period is selected, it is necessary to enter the start and end dates of the time period in the **from** and **to** fields using the **Calendar** tool. Open the **Calendar** tool by clicking the  button next to the corresponding field.

- To build a report, click the **Execute** button (4).
As a result, the report with specified parameters is displayed.

General reports

Navigation: [General reports](#) > [Operator actions report](#) > Result

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Operator actions report

Period 29 January 2020 00:00:00 - 29 January 2020 23:59:59

Admin Admin

Object type	Object name	Event	Information	Card number	Date and time
SLAVE	Computer [WORK-PC]	Change	User registration		29 Jan 13:24:06
DISPLAY	Display [1]	Change	Activated		29 Jan 13:24:06
PERSON	User[PERSON] [2]	Change	User registration		29 Jan 13:24:06
SLAVE	Computer [WORK-PC]	Change	Record to disc transfer		29 Jan 13:24:31
SLAVE	Computer [WORK-PC]	Change	Record to disc transfer		29 Jan 13:24:31
SLAVE	Computer [WORK-PC]	Change	Disk for archive storage found		29 Jan 13:24:31
GRABBER	Video capture device [1]	Change	Connected		29 Jan 13:24:32
GRABBER	Video capture device [1]	Change	Connection restored		29 Jan 13:24:32
CAM	Camera [1]	Change	Connection		29 Jan 13:24:34
CAM	Camera [1]	Change	Alarm		29 Jan 13:24:53
CAM	Camera [1]	Change	Harddisk rec		29 Jan 13:24:53
Events in total:10					

Report fields are described in the table.

Field	Description
Object type	Type of object in the system
Object name	Name of object. <i>Note. The object's identifier is displayed at the end of the object name in square brackets.</i>

Field	Description
Event	Event type
Information	Event name
Card number	Operator Access Card Number
Date and time	Date and time of the event

Note

In the report, the objects are sorted by their identifier and by the event date.

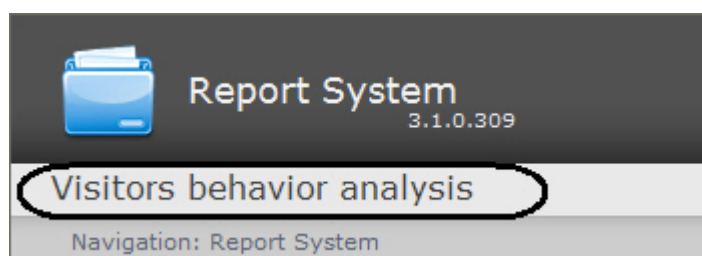
8.8 Working with Customer behavior reports

8.8.1 Selecting a type of Visitors behavior analysis reports

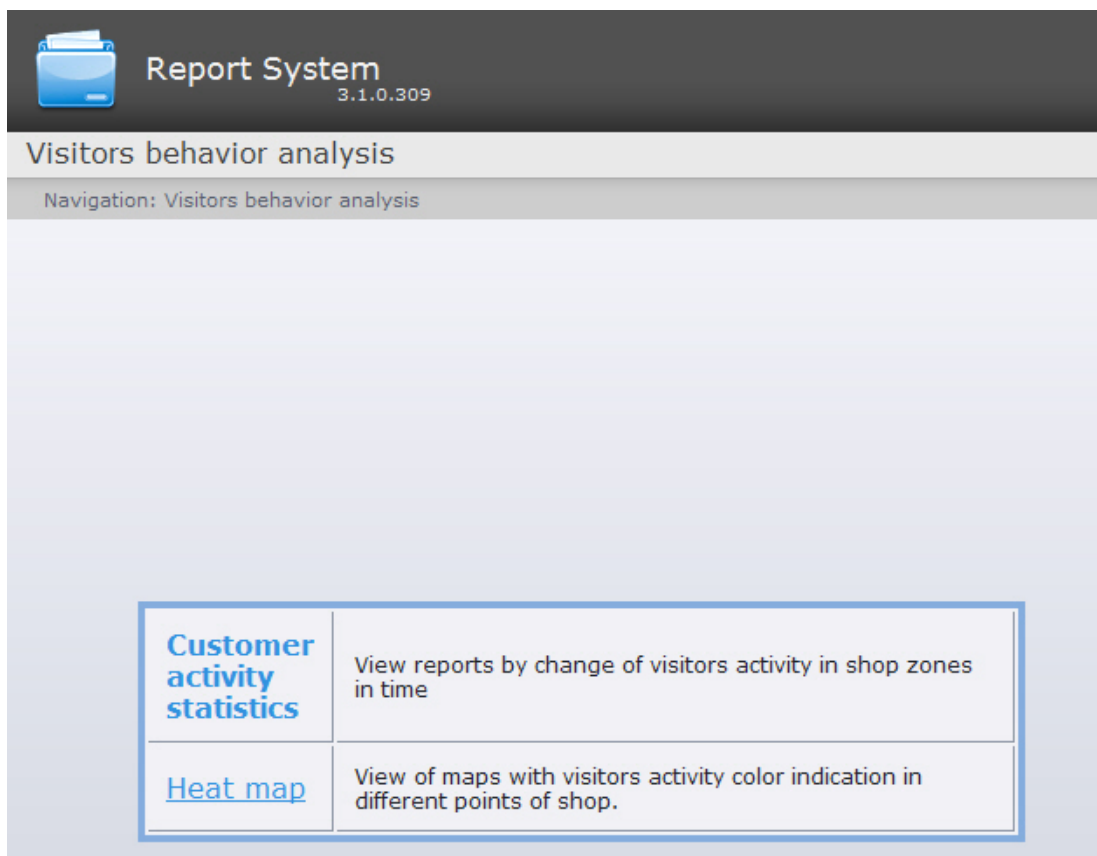
It is possible to create the following visitors behavior analysis reports:

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*.



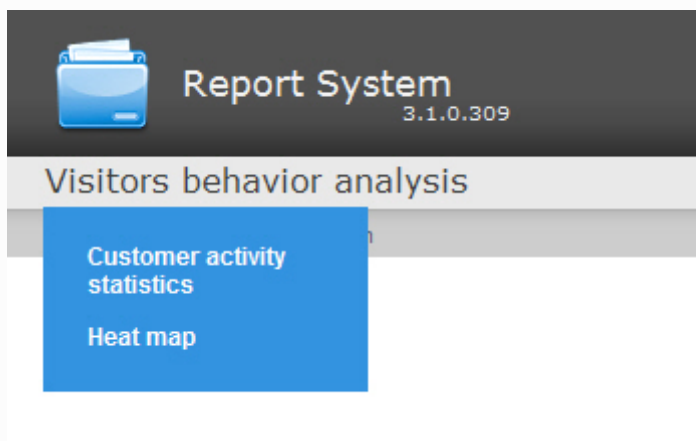
As a result the list of available visitors behavior analysis reports is displayed. For switching to the required report click the corresponding link.



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.



8.8.2 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.

Report System
3.1.0.314



Visitors behavior analysis People Counter detectors Queue Length detectors

Navigation: [Visitors behavior analysis](#) > Customer activity statistics

Customer activity statistics

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

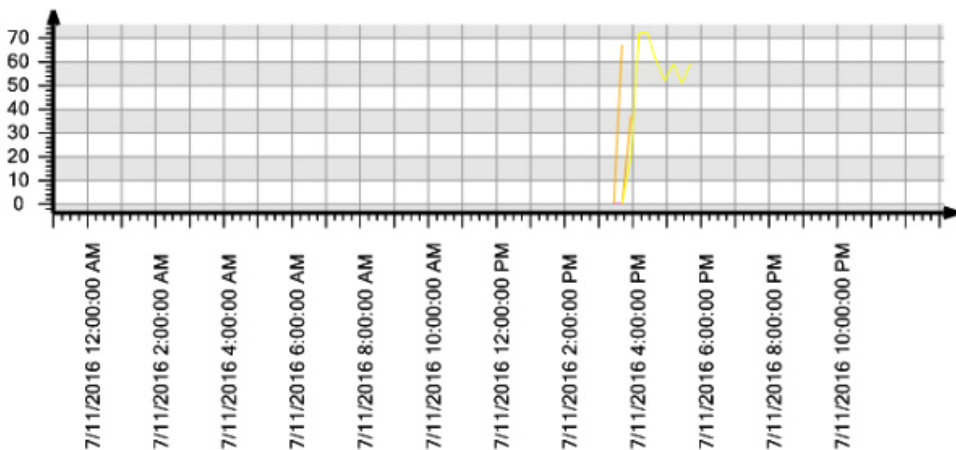
As a result a **Customer activity statistics** report with specified parameters is displayed. The report displays average results for whole period and detailed statistics for each time interval.

visitors behavior analysis

Navigation: [Visitors behavior analysis](#) > [Customer activity statistics](#) > Result

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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%

8.8.3 Creating a Heat map report

To create the heat map report, do the following:

1. Select the **Heat map** report 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.

Parameter	Value
Receiving data period:	User 2 from 06/01/2018 12:00 AM to 06/30/2018 11:59 PM
Included week days:	Mon - Sun
Detectors:	Choose: All, None View: Hide all, Show all <ul style="list-style-type: none"> - <input checked="" type="checkbox"/> Area 1 <ul style="list-style-type: none"> - <input checked="" type="checkbox"/> Region 1.1 <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Area 1
Conversion function:	Linear function (no conversion)
Absolute scale:	<input type="checkbox"/>

Execute

Set the following report parameters:

1. Specify the period as follows:
 - a. From the **Receiving data period**: dropdown list select the time period for which the report is to be created (1).
 - b. If the **User defined** period is selected, specify 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 next to the corresponding field to use the **Calendar** tool.
 - c. If the **User defined 2** period is selected, specify 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**: dropdown list select days when most customers work (or do 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 there will be the message suggesting 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 draw special attention to various aspects of a store customers behavior statistics.

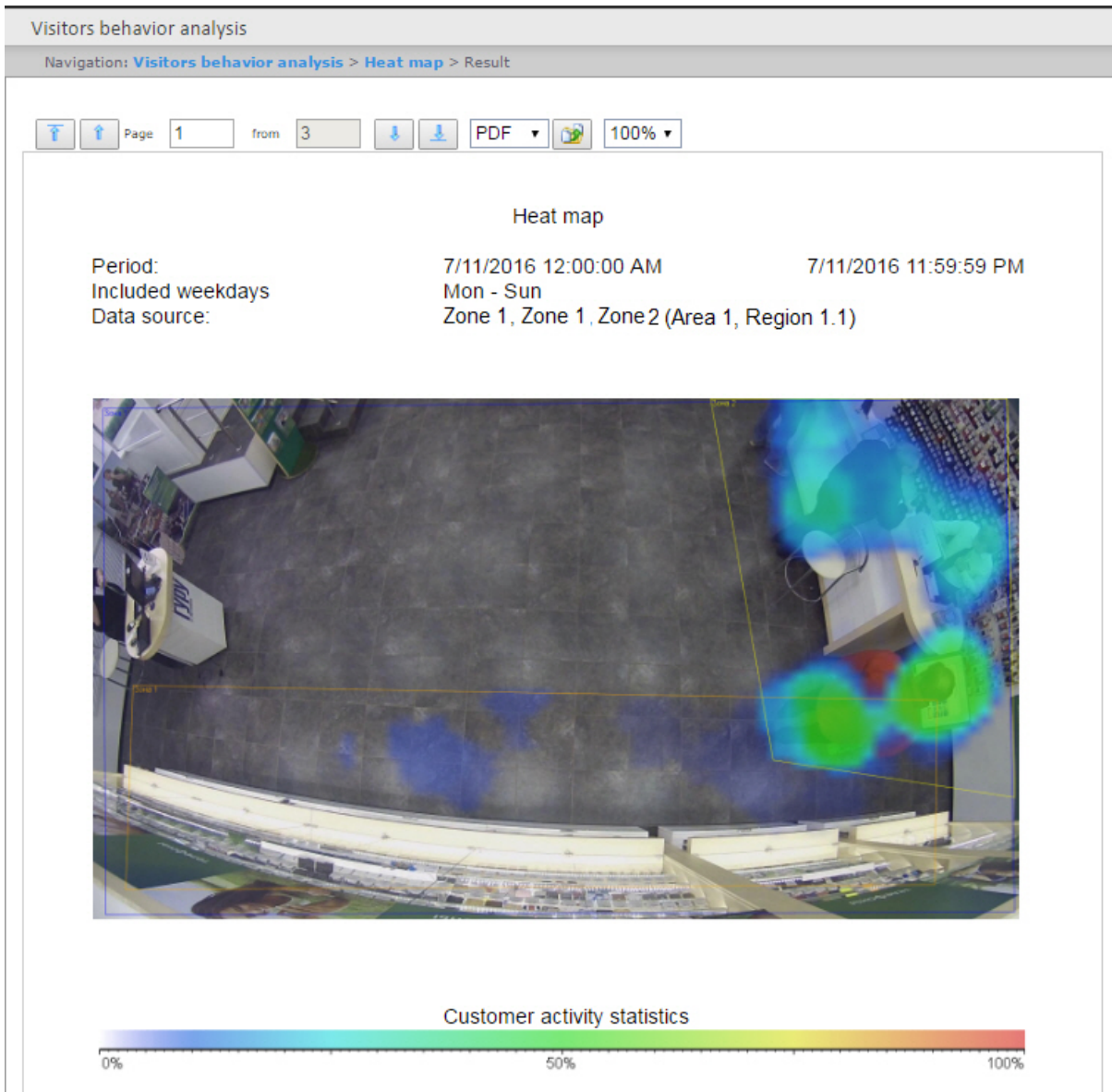
5. Set the **Absolute scale** checkbox if it is required to display initial data without any changes **(5)**. By default, the checkbox is not set.

Note

This option is recommended to be used only when there is high customer activity in the store. If customer activity is low, it is not recommended to set the **Absolute scale** checkbox. If a person is in the area 100% of the time, then the area will be red, if the person is not in the area at all, then it will not be colored. As practice shows, a person can not be in a certain area 100% of the time, hence, there will never be red zones. Use the conversion function to better demonstrate this **(4)**. For example, if the customer activity fluctuates in a range from 0% to 20%, each activity value will be multiplied by $100\% / 20\% = 5$ and earlier the blue zone corresponding to 20% of activity will be displayed as 100% and red, but not blue. Find more information about the conversion functions at <http://easings.net/en> or <https://wiki.multitheftauto.com/wiki/Easing>.

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

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



8.9 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).



Note

If there is "*System.OutOfMemoryException*" message when trying to export created **Report by users access levels** or **Report by users of access levels and readers reports** in PDF, then it is necessary to reduce exported data by splitting the report into several documents. For instance, create reports by less departments and then merge PDFs in one file using the third-party software.

9 Conclusion

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

Axxon Soft Inc., Beryozovaya alleya, building 5, section 5a, Moscow, Russia, 127273

Tel/fax: (495) 775-61-61

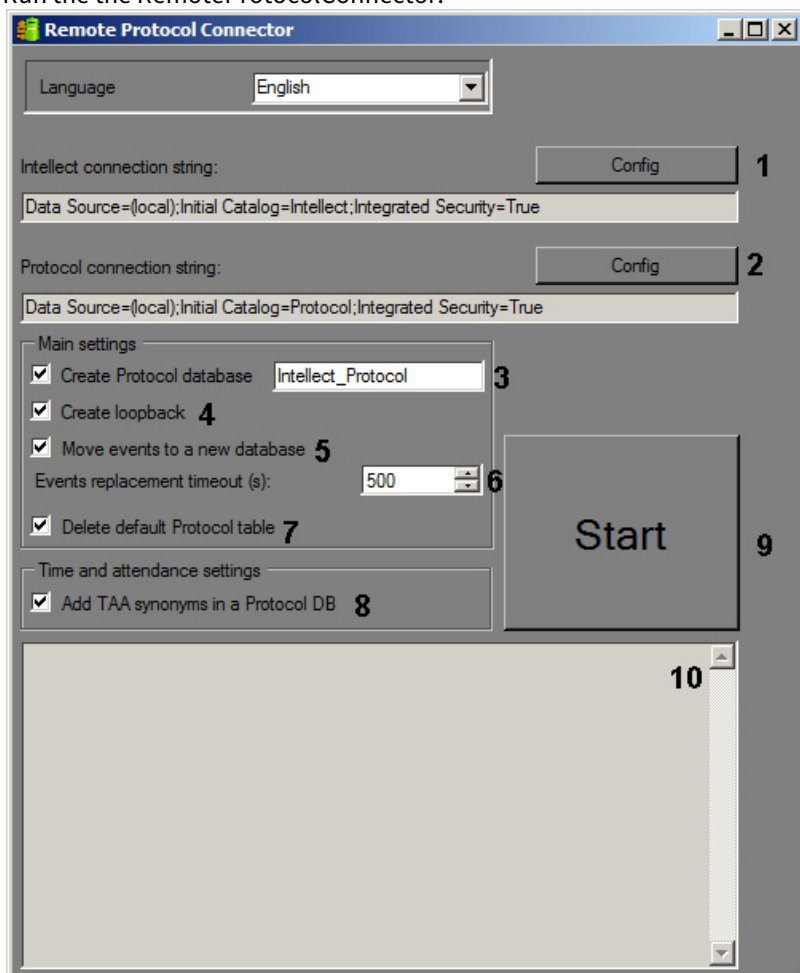
www.axxonsoft.com

10 Appendix 1. The RemoteProtocolConnector utility for extracting event protocol to a separate database

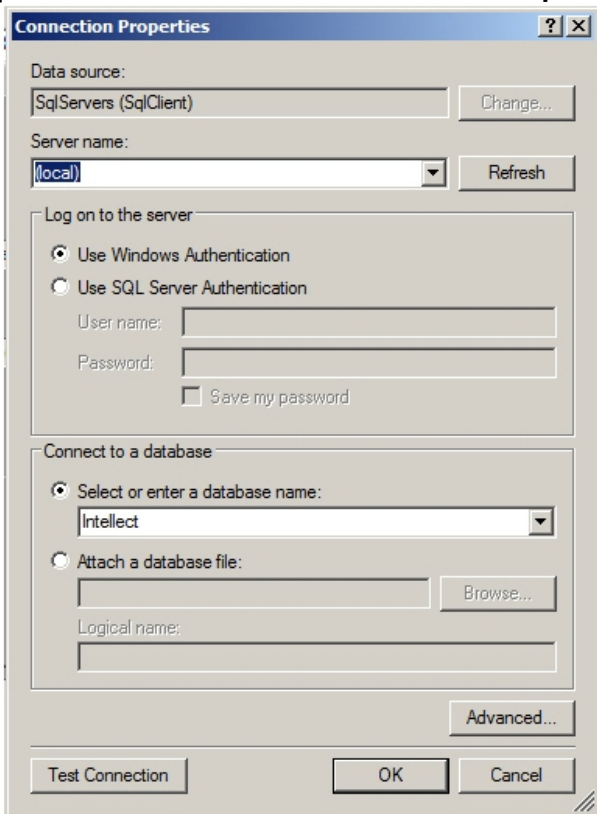
10.1 Extracting event protocol to a separate DB with RemoteProtocolConnector

Extracting event protocol to a separate DB with RemoteProtocolConnector is carried out as follows:

1. Run the the RemoteProtocolConnector.



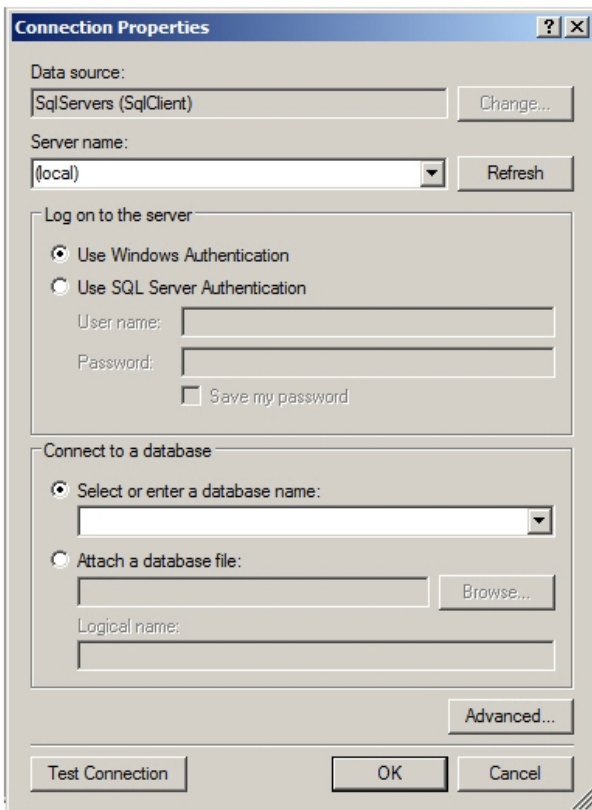
2. Check the connection string for *Intellect* software database. If the connection string is not correct, click **Config** (1) and set parameters of connection in the **Connection Properties** dialog box.



3. Specify the connection string to the database server on which the new event log database is to be created. To do that, click **Config** (2), then select database server and connection parameters in the **Connection Properties** dialog box. The **Select or enter a database name** field must be empty.

Note.

After moving the event protocol to a separate database, the connection string to created database is displayed in the **Protocol connection string** field.



4. Set the **Create Protocol database** checkbox and enter the name of new database in the corresponding field (3).
5. Set the **Create loopback** checkbox (4). This checkbox is required for creation of event protocol database synonym in order to write new events to a new database.
6. If events from the old event protocol database are to be transferred to a new one, set the **Move events to a new DB** checkbox (5). If this check box is not selected, the created database will initially be empty, and the events registered before the protocol transfer to a separate database will not be available in the system.
7. In the **Events replacement timeout field (s)** field, specify the time period in seconds to wait for the transfer of events into the new database to be completed (6). If there are many events that are transferred, this process can take a long time, so the timeout should be increased to avoid errors when executing SQL queries.
8. If after transferring the event protocol database into the new database it is required to delete the old database, check the **Delete default Protocol table** (7) checkbox.
9. Set the **Add TAA synonyms in a Protocol DB** checkbox (8). This checkbox is required to ensure that events of user passes are copied to the appropriate database table.
10. Click **Start** (9).
11. Data transferring process and errors that occur are displayed in (10) field.

Important!

After performing the above actions start idb.exe utility and extract the event protocol database to the created database – see Appendix 2 of the *Intellect software. Administrator's Guide* (the most relevant version of this document is available in [AxxonSoft documentation repository](#)).

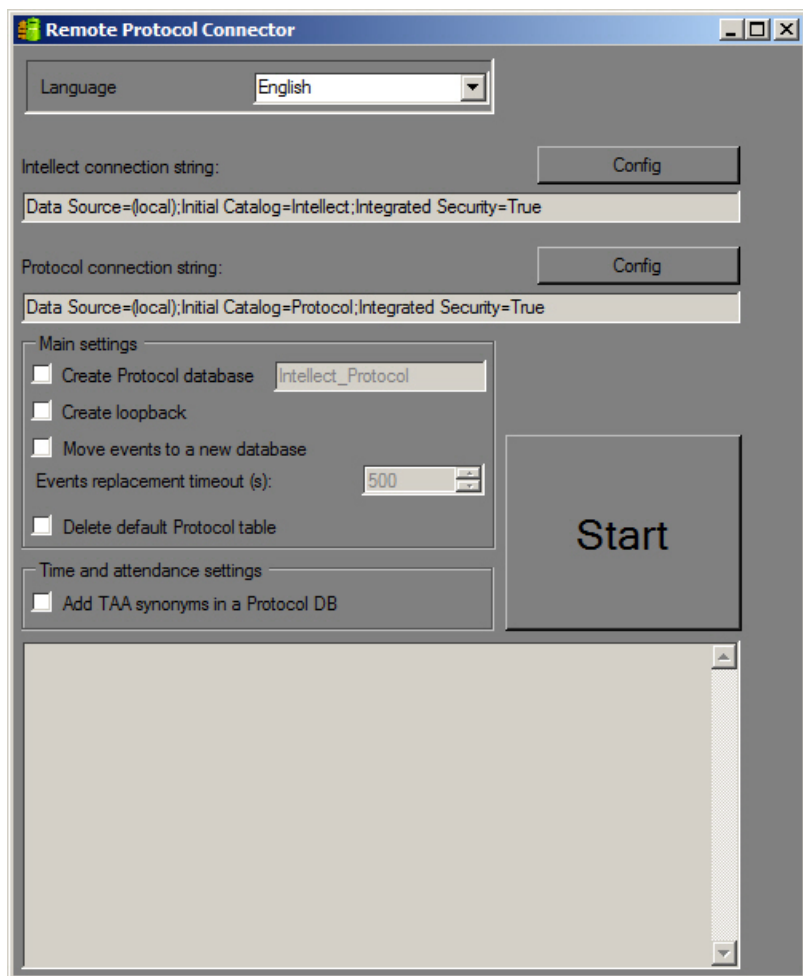
Extracting event protocol to a separate DB with RemoteProtocolConnector is completed.

10.2 Purpose of the RemoteProtocolConnector. Start and shutdown

Intellect software allows extracting event protocol into a separate database using the idb.exe utility – see *Intellect software. Administrator's Guide* (the most relevant version of this document is available in [AxxonSoft documentation repository](#)). However, this method can lead to troubles in operation of the *Time&Attendance* module which is the part of *ACFA-Intellect* software (see [Time and Attendance Module Settings and Operation Guide](#)). If this module is in use in the system, use the RemoteProtocolConnector utility to extract event protocol to a separate database.

To start the utility, run the RemoteProtocolConnector.exe executable file in the <Intellect installation>\Tools folder.

The utility window is shown in the picture below.



To stop the RemoteProtocolConnector utility, click the  button.