
# Castle Integration Module Configuration and Operation Manual

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# List of terms used in Castle Integration Module Configuration and Operation Manual

Access – movement of people, means of transport and other objects into (out of) premises, buildings, zones and territories.

Executive devices – turnstiles, gates, barriers or doors equipped with electromagnetic or electromechanical locks. Controller manages executive devices and gets information about their state.

Client – computer connected to *Castle* server over TCP/IP protocol. *Intellect* Server is the *Castle* server's Client.

*Castle* client – computer with installed *Castle ACS* software, connected to *Castle* server over TCP/IP protocol.

Controller – an electronic device that is LSI microprocessor board in the metal case. It is connected to RS485 or Ethernet, readers, sensors and executive devices.

*Castle* server - computer with installed *Castle ACS* server software.

Access control system (ACS) – hardware-software system performing the access control functions.

Readers – electronic devices for entering human-memorable PINs with the keypad or for reading PINs from the system's security tokens.

Access point – a point where access control is performed. An access point may be a door, a turnstile, a gate or a barrier equipped with a reader, an electromechanical lock or other access control devices.

*Intellect* Server – computer with installed *Intellect* software (**Server** configuration).

# Introduction into Castle Integration Module Configuration and Operation Manual

**On the page:**


- Purpose of the Document
- General information about Castle integration module


## Purpose of the Document

*Configuration and operation manual for Castle integration module* is a reference and information guide meant for *Castle* co nfiguration specialists and operators. This module is a part of *ACFA Intellect* software package.

The guide provides:

1. general information about *Castle* module;
2. information about how to configure *Castle* module;
3. information about how to use *Castle* module.

## General information about Castle integration module

*Castle* integration module is the *ACFA Intellect* component. It performs the following functions:

1. Configuring *Castle* ACS (manufactured by PromAvtomatika , LLC);
2. Ensuring interaction between *Castle* ACS and *ACFA Intellect* (monitoring, control).

**Note.**
For more information about *Castle ACS*, please refer to official documentation for this system.

Before configuring *Castle* integration module, do the following:

1. Install *Castle* ACS hardware on the object under security surveillance;
2. Configure access points of *Castle* ACS using the *Castle* Client (see reference documentation about *Castle* ACS).

# Configuring Castle integration module

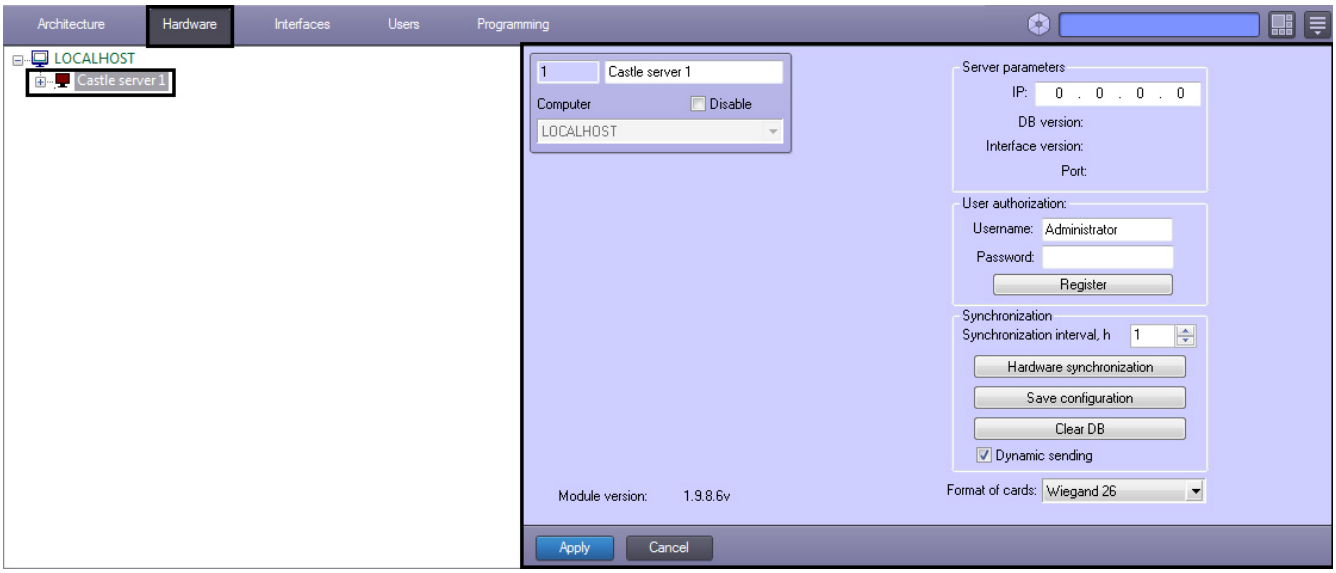
## Configuration procedure for Castle integration module

Here is the configuration procedure for *Castle* integration module:

1. Configure interaction between *ACFA Intellect* and *Castle* server;
2. Synchronize *Castle ACS* and *Intellect ACFA* configurations;
3. Configure *Castle ACS* access points.

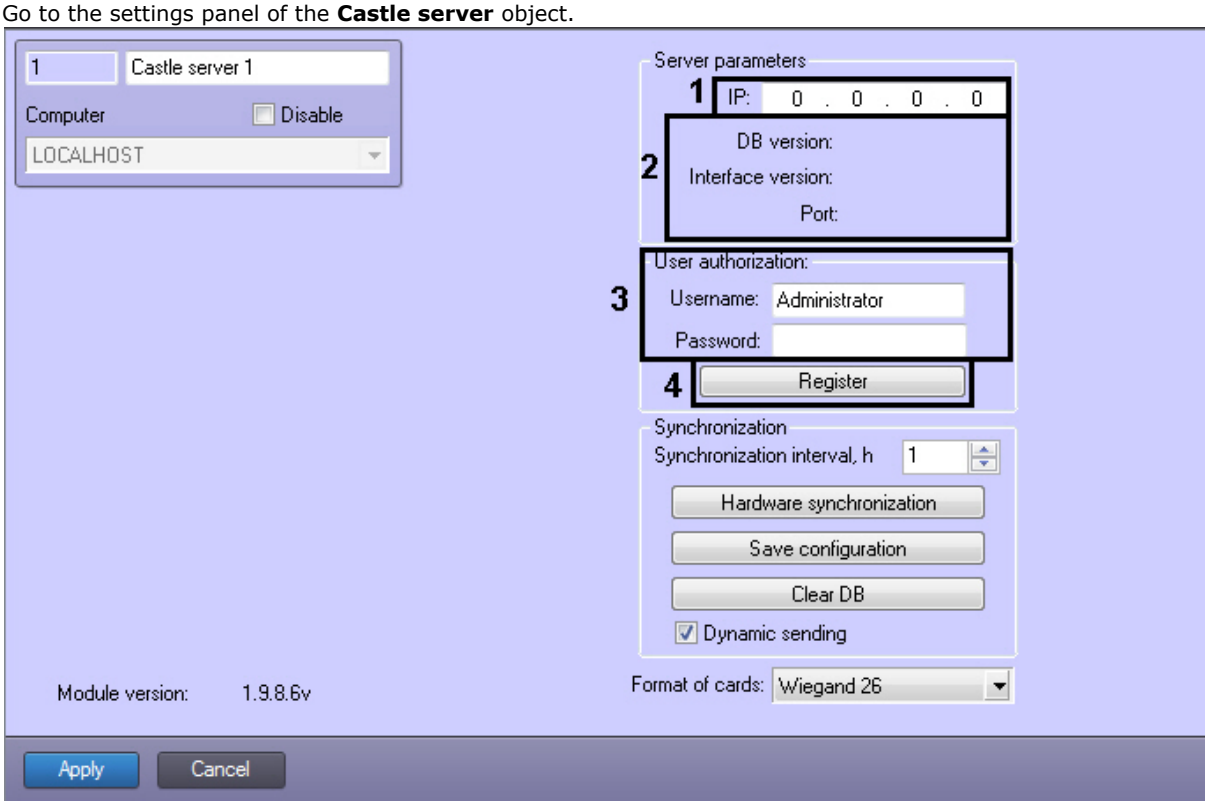
# Configuring interaction between ACFA Intellect and Castle server

Interaction between *ACFA Intellect* and *Castle* server is configured on the settings panel of the ***Castle* server** object. This object is created on the base of the **Localhost** object in the **Hardware** tab of the **System settings** dialog box.




To configure interaction between *ACFA Intellect* and *Castle* server do the following:

1. Go to the settings panel of the **Castle server** object.




**Note.**
The version of *Castle* integration module is displayed in the **Module version** field (**5**).

The following information is displayed in the **Server parameters** group (**2**):

a. Version of *Castle ACS* database (the **DB version** field);
b. Version of *Castle* server – Client data exchange protocol (the **Interface version** field);
c. Port used for *Castle* server-Client connection (the **Port** field).

*Intellect* Server is the Client in this case.

2. Specify the *Castle* server IP address in the **IP** field (**1**).
3. In the **User authorization** group specify the username (the **Username** field) and password (the **Password** field) used to login to the *Castle* server (**3**).

> **Note.**
> Any pair of values used to login to *Castle* Client is to be specified (see reference documentation about *Castle ACS*).

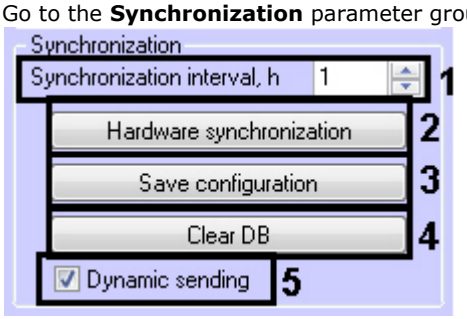
4. To login to *Castle* server click the **Register** button (**4**).
   As a result the **Access point** objects that correspond to *Castle ACS* access points are created in the objects tree of the *ACFA Intellect* objects.
5. Click the **Apply** button to save all changes.

Interaction between *ACFA Intellect* and *Castle* server is now configured.

# Synchronization of Castle ACS and Intellect ACFA configurations

To synchronize *Castle* ACS and *Intellect* ACFA configurations do the following:

1. Go to the **Synchronization** parameter group on the settings panel of the **Castle server** object.




> **Attention!**
> The **Dynamic sending** checkbox is always to be checked for proper operation of *Castle* integration module (**5**).

2. Parameters are to be auto synchronized between *Intellect* and *Castle* servers. Specify the interval for parameters auto synchronization (in hours) in the **Synchronization interval** field (**1**).
3. To read *Castle* ACS configuration stored on *Castle* server click the **Hardware synchronization** button (**2**).
4. To send *ACFA Intellect* configuration to *Castle* server click the **Save configuration** button (**3**).

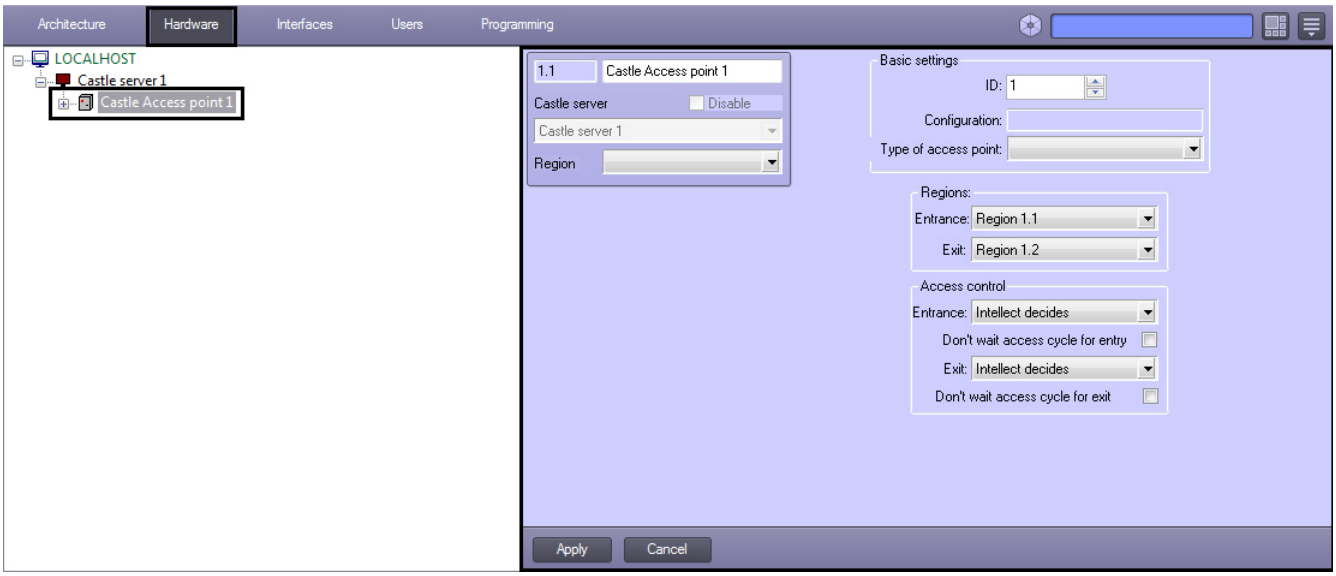
> **Attention!**
> This action is to be performed after configuring interaction between *Intellect* and *Castle* servers.

5. To clear the *Castle* server database click the **Clear DB** button (**4**).
6. Click the **Apply** button.

*Castle ACS* and *Intellect ACFA* configurations are now synchronized.

# Configuring Castle ACS Access points

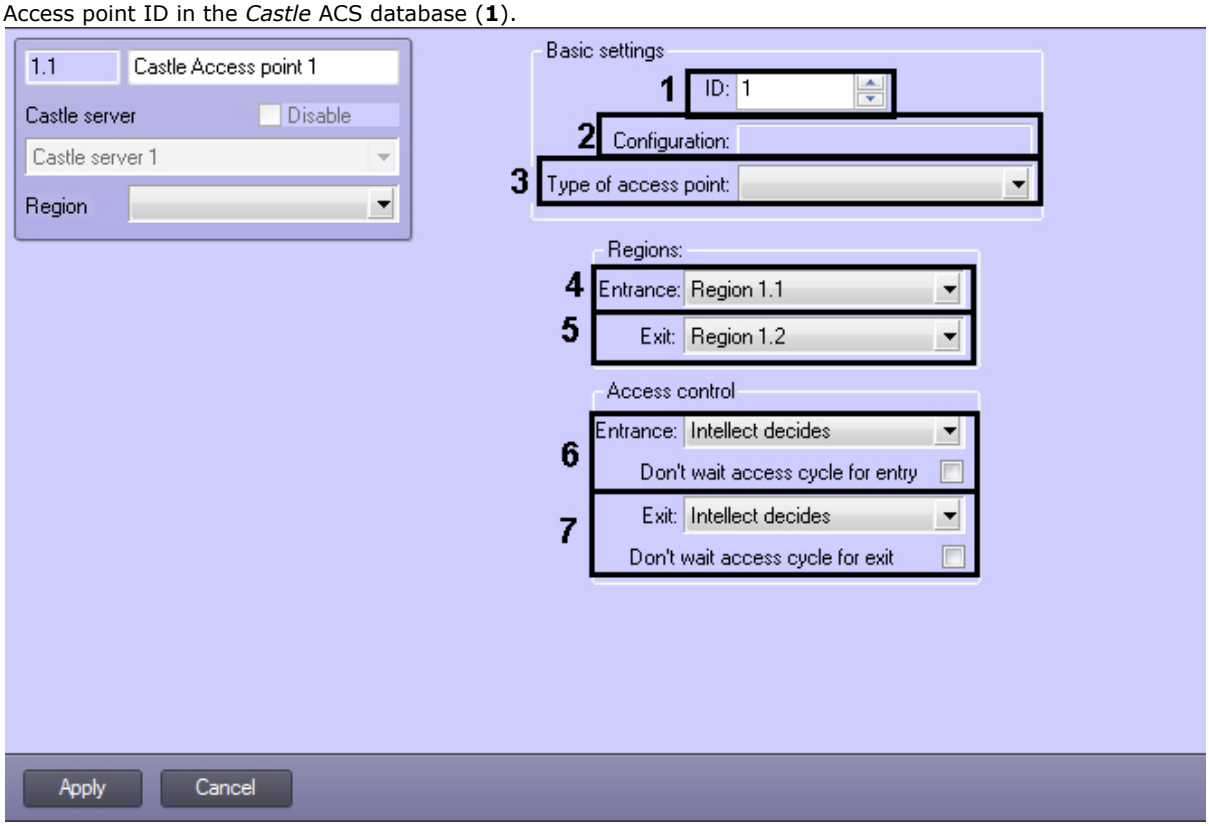
*Castle ACS* Access point is configured on the settings panel of the **Castle Access point** object. This object is created on the base of the **Castle server** object in the **Hardware** tab of the **System settings** dialog box.




The **Access point** object is registered automatically when reading *Castle ACS* configuration.

The following parameters are automatically specified when reading *Castle ACS* configuration:

1. Access point ID in the *Castle* ACS database (**1**).




2. Access point configuration (**2**).

> **Note.**
> Access point configuration is set using the switch on the card of corresponding *Castle ACS* controller (see reference documentation about *Castle ACS*).

3. Access control mode (**3**).

*Castle ACS* access points are configured as follows:

1. In the **Entry** dropdown list select the **Region** object corresponding to the area on the side of exit from the access point (**4**).
2. In the **Exit** dropdown list select the **Region** object corresponding to the area on the side of entrance to the access point (**5**).
3. Set parameters of access control at entrance (**6**):
    a. In the **Entry** dropdown list select the one that will decide whether to give access or not and whether to register it or not – *Intellect* Server or operator;

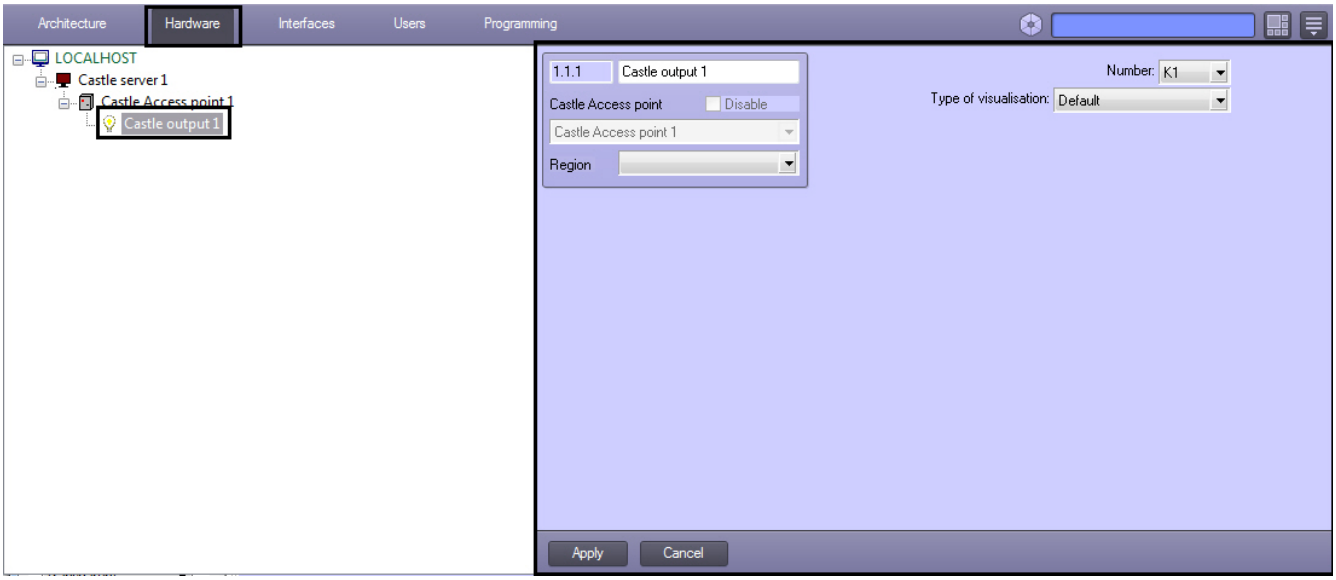
> **Note.**
> To process the request operator is to create a **Photo ID** interface object and configure it for the **Operator's query (Access granted)** event. For more information about this object and its functions, please refer to Photo ID User Guide.

   b. If it is considered that passing is performed just after placing the access card to the reader, then check the **Don't wait access cycle for exit** checkbox. If the passing is considered to be performed only after passing the access point (i.e. door sensor is triggered), uncheck this checkbox.
4. Set parameters of access control at exit (**7**). The parameters are the same as those of access control at entrance (see the previous item).
5. Click the **Apply** button to save all changes.
6. Repeat steps 1-9 for all required *Castle ACS* access points.

*Castle ACS* access points are now configured.

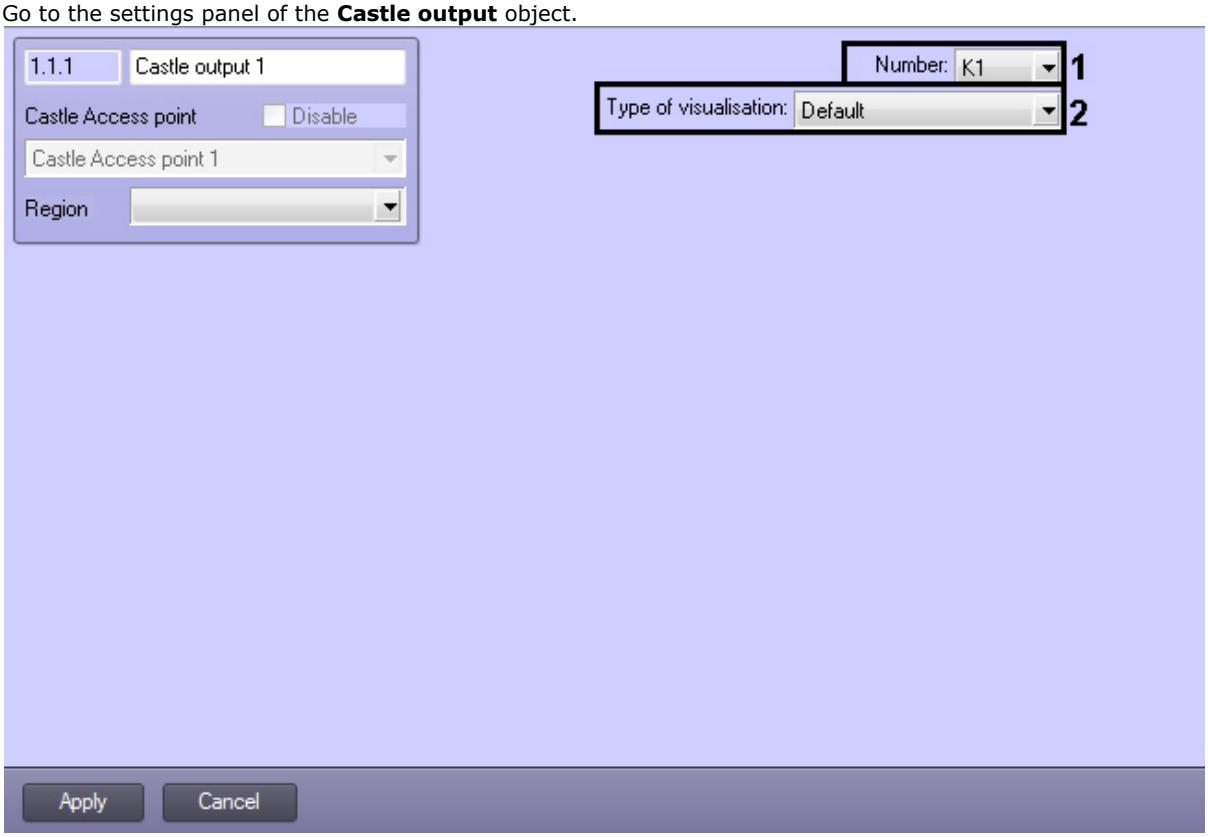
# Configuring Castle ACS outpus

*Castle ACS* Output is configured on the settings panel of the **Castle output** object. This object is created on the base of the **Castle Access point** object in the **Hardware** tab of the **System settings** dialog box.




Configuring *Castle ACS* output is performed as follows:

1. Go to the settings panel of the **Castle output** object.

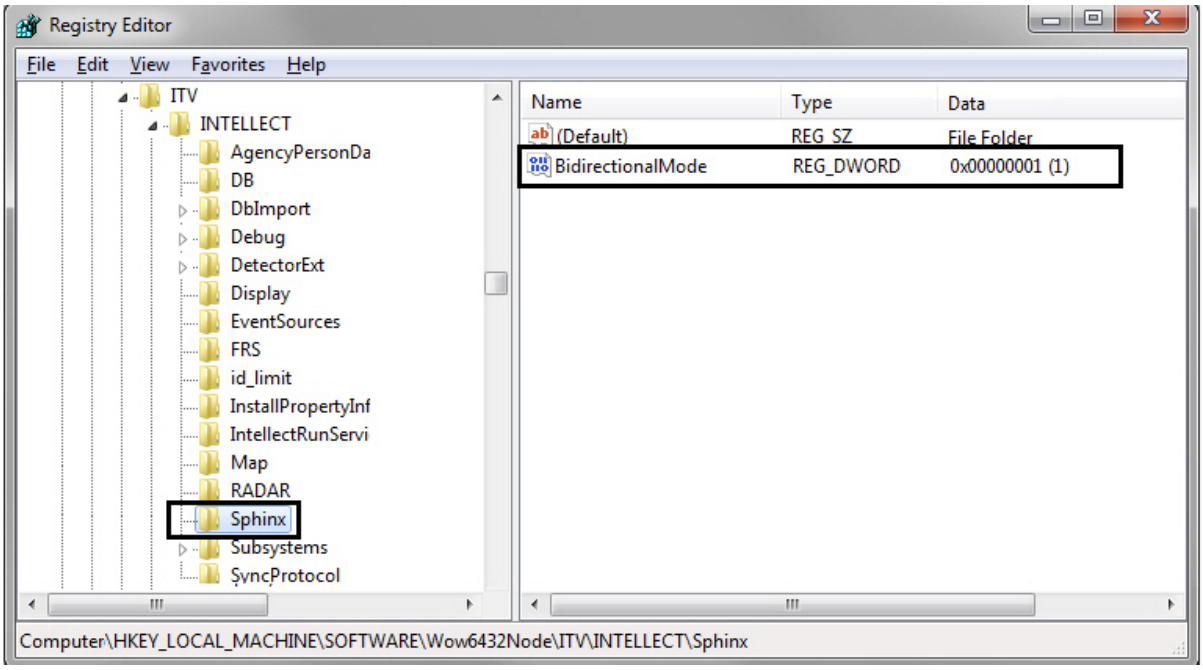


2. The output number is automatically specified when reading *Castle ACS* configuration (**1**).
3. From the **Type of visualisation** drop-down list select the corresponding set of icons for the output (**2**).
4. Click **Apply**.

*Castle ACS* outputs are now configured.

# Configuring of access partition for entrance and exit

To enable access partition create the DWORD (32 bits) parameter with the BidirectionalMode name and value 1 in the HKEY_LOCAL_MACHINE\SOFTWARE\Wow6432Node\ITV\INTELLECT\Sphinx register section.




Access partition for entry and exit is performed using intervals of time zones in the *Visitor Management System* interface object.

1. Even number of time intervals – odd intervals are applyed  for entrance, even intervals – for exit.
2. Odd number of time intervals – as item 1, and the last interval is applied for both readers (for entrance and for exit).

# Working with Castle integration module

## General information about how to use Castle integration module

The following interface objects are in use when working with Castle integration module:

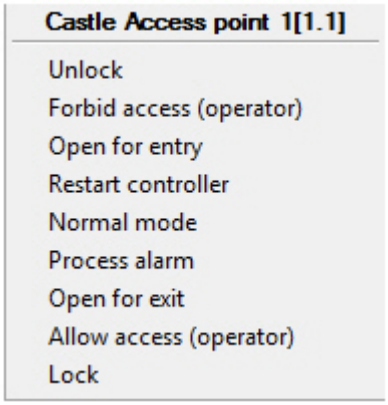
- **Card**;
- **Event Viewer**.

Information on how to configure these interface objects can be found in Intellect Software package: Administrator's Guide.

Information on how to work with these interface objects can be found in Intellect Software package: Operator's Guide.

# Managing Castle access point

An access point is managed in the **Map** interactive dialog box using the feature menu of the Castle access point object.

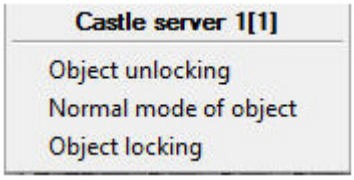



**Note.**
To call the feature menu of the object, right-click the object icon.

Description of feature menu of the **Castle** access point object is given in the table.

| **Menu com mand** | **Functionality** |
|---|---|
| Lock | Access point is locked, there is no access |
| Normal mode | Access point is in the normal mode: access point is normally locked; it is unlocked when reading the key; after passing or when the specified time expires access point is automatically locked |
| Forbid access (operator) | Access is forbidden (after receiving access request) |
| Allow access (operator) | Access is allowed (after receiving access request) |
| Unlock | The lock is unlocked at the access point |
| Restart controller | Access point controller is restarted |
| Process alarm | Registration of alarm at the access point is confirmed |

All access points can be managed using the feature menu of the **Castle server** object.

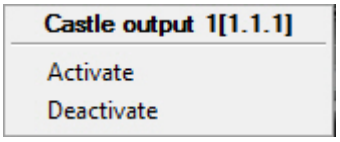



Description of feature menu of the **Castle** server object is given in the table.

| **Menu command** | **Functionality** |
|---|---|
| Object locking | All access points are constantly locked |
| Object unlocking | All locks at access points are unlocked |
| Normal mode of object | All access points are in the normal mode |

# Managing Castle output

An output is managed in the **Map** interactive dialog box using the feature menu of the Castle output object.



Description of feature menu of the **Castle** output object is given in the table.

| **Menu command** | **Functionality** |
|---|---|
| Activate | Output activation |
| Deactivate | Output deactivation |