



Android Mobile Client. User Guide

Version 2.6.0

1. General information about the Android mobile client	3
2. Connecting to the server and working with servers in the Android client	3
3. Mobile Android Client settings	6
3.1 Configuring video	7
3.2 Configuring the Android mobile client interface	8
3.3 Configuring PTZ cameras control	9
3.4 Configuring geomaps	9
3.5 Configuring getting event in Android Mobile Client	10
3.6 Showing fps on the video	10
3.7 Configuring crash reports	10
4. Displaying and searching for cameras in Android Mobile Client	11
5. Viewing live video in the Android mobile client	12
6. Controlling PTZ cameras from the Android Mobile Client	14
7. Viewing previously recorded video in the Android mobile client	15
8. Digital zoom in the Android mobile client	17
9. Making a screenshot	17
10. Viewing a list of system events in the Android mobile client	17
11. Working with maps in the mobile Android Client	19
11.1 Working with Intellect maps	19
11.1.1 Using cameras	20
11.1.2 Using relays	21
11.1.3 Using sensors	21
11.1.4 Using macros	22
11.2 Working with geomaps	22
12. Running macros in the Android mobile client	24

General information about the Android mobile client

The client app for mobile devices running Android (version 4.1.1 and later) is available for free on the [Google Play](#).

The client for iOS devices allows connecting to Axxon Next servers (version 3.0 and later) and Intellect servers (version 4.9.0 and later).

Client features are described in the table.

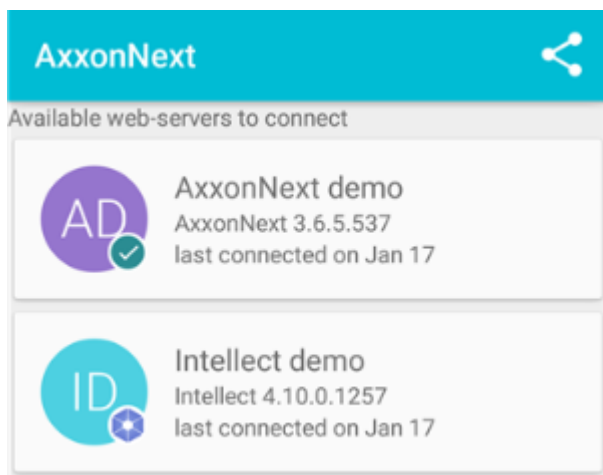
Client features	Working with Intellect servers	Working with Axxon Next servers
Live Video and Audio Monitoring	+	+*
Playback of recorded video and audio	+	+*
Playback of iOS sound on speakers	+	-
Getting titles in the live and archive modes	+	-
Zoom in (with digital zoom)	+	+
Managing cameras, relays and sensors	+	-
Control of PTZ cameras (including activation of presets)	+	+
View maps	+	-
Working with geomaps	+	+
View the list of events	+	+
Run macros	+	+

* Audio from Axxon Next Server is available in the rtsp over ffmpeg mode for cameras with h.264 stream only (see [Configuring video](#)).


Connecting to the server and working with servers in the Android client

Configure the Web server in the appropriate software package before connecting to the Server (see [Configuring the web server](#), [Configuring the server for the clients connection via the Web-server 2.0 module](#)).

When you start the software for the first time you can connect to the *Intellect* and *Axxon Next* demo servers to see your Client's capabilities.



Add a new server as follows:

1. Click the  button.
2. Set Server connection parameters:
 - a. Enter the server name (**1**).

Add server

Name	
Intellect	1
URL	
46.29.74.163:8000/web2	2
Login	
user	3
Password	
....	4
TEST CONNECTION	OK
5	6

- b. Enter the URL server address in the format http://<IP address of Axxon Next server>:<Port>/<Prefix> (**2**).

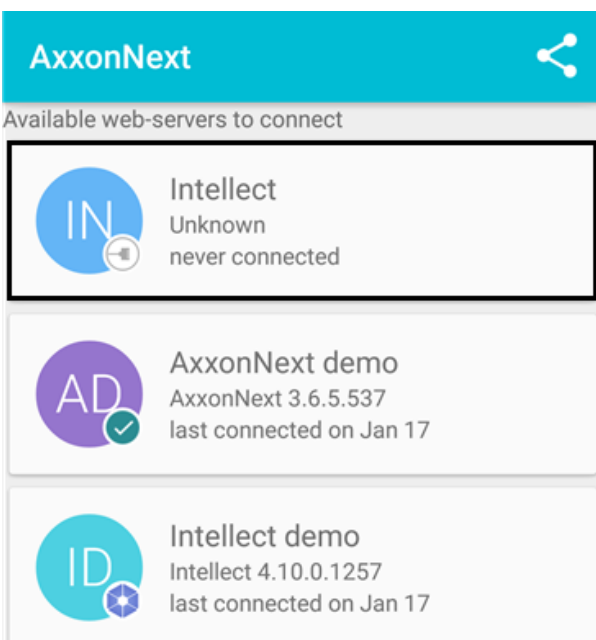
Note
Example URLs with standard Server settings for Axxon Next and Intellect:
Axxon Next: 192.168.0.10:8000/asip-api
Axxon Intellect: 192.168.0.10:8085/web2



- c. Enter the user name and password for connecting (**3-4**).
3. To test the connection, tap the **Test connection** button (**5**). If the server is running, the connection settings are correct, and the device has a stable Internet connection, the message **Connection successful** appears. Otherwise, a message will remind you to verify these conditions.

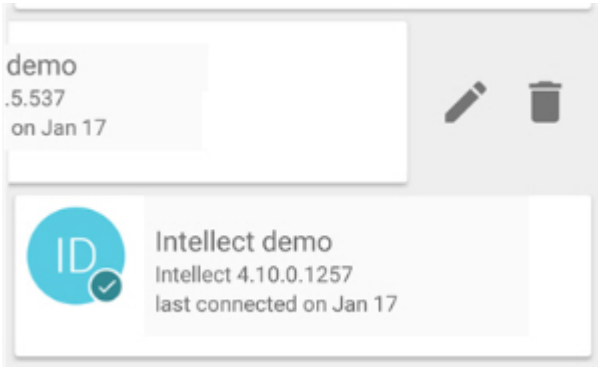
Note
To perform a basic check of the web server connection and operability, in a browser on your mobile device, go to the Server's URL address (see paragraph 2).

4. To save the server, tap the **OK** button (**6**).


The server is added to the list.

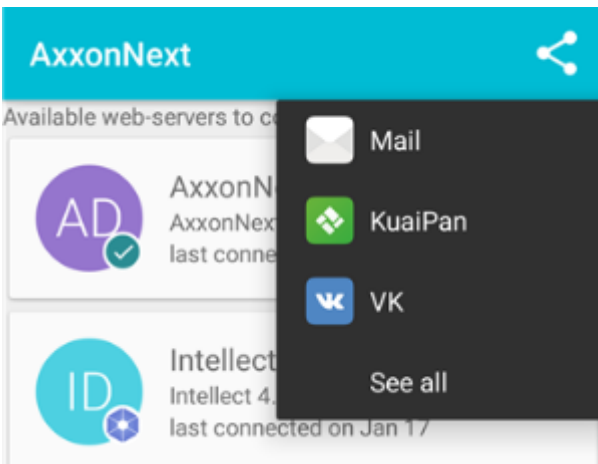



Swipe and then use the  button to remove the Server or click the  button to go to the Server settings.




Note
To cancel removing, click the **Cancel** button.

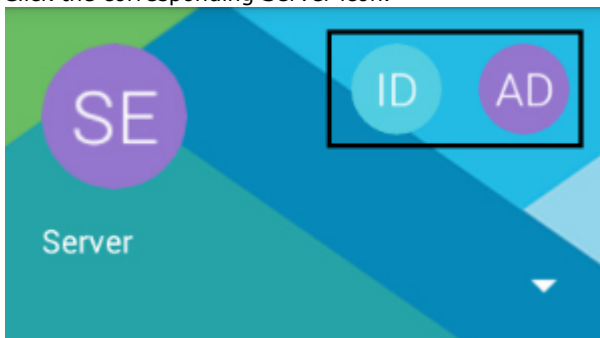
You can share the created server settings. For this click the  button and select a handy way.




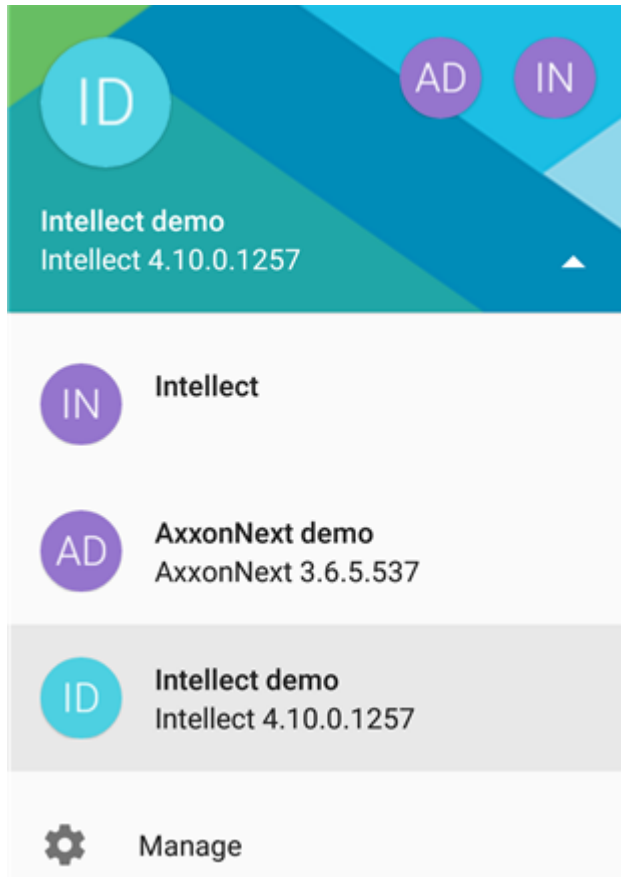
The server that is now connected is marked .

To connect to another server, call the Client context menu by clicking the  button in the top left corner.
Select the required server as follows:

1. Click the corresponding Server icon.



2. Click  and select the required Server in the list.

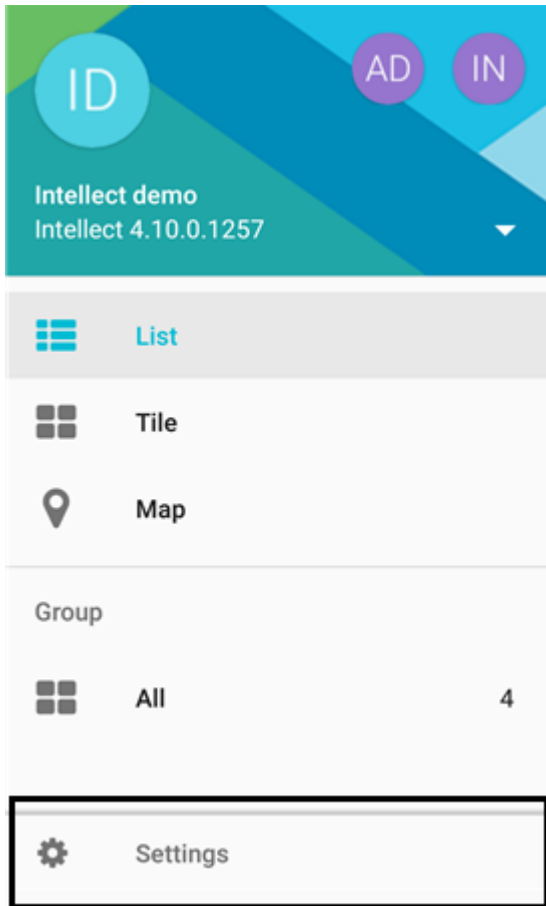


To restore to the Server settings, click **Manage**.

Mobile Android Client settings

To go to the setup menu:

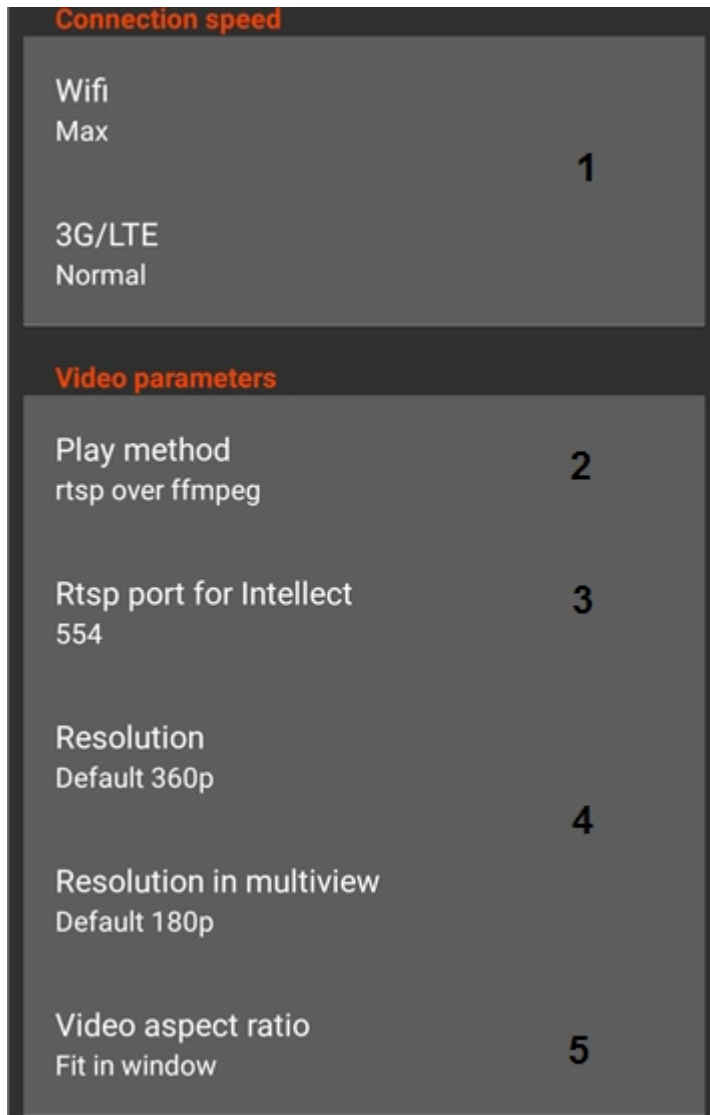
1. Call the main menu by clicking the  button in the top left corner.
2. Select the **Settings** item.



Configuring video

Configure video parameters as follows:

1. Select max.fps when connecting to Internet via WiFi and 3G: **Maximum:** 9 fps, **Medium:** 6 fps, **Slow:** 3 fps (**1**).



Note. These settings are valid only when connection to the *Intellect* software package is established.

2. Select playback format (**2**): mjpeg; mjpeg via ffmpeg (less resource-intensive than mjpeg); rtsp via ffmpeg (video is displayed in the original format via RTSP protocol).
3. Specify RTSP port set in *Intellect* settings (**3**, see [Configuring rtsp Server module](#)).
4. Select the video resolution while viewing video from one camera (the **Resolution** setting) and while displaying video from several cameras (**Resolution in multiview** setting, **4**):
 - a. **Auto** - when your mobile device has a slow Internet connection, the degradation of image quality algorithm is applied for the image resolution.
 - b. **SQCIF** - display video with constant resolution 126 × 96 (for multiview only).
 - c. **QCIF** - display video with constant resolution 176 × 144.
 - d. **CIF** - display video with constant resolution 352 × 288 (for multiview only).
 - e. **4CIF** - display video with constant resolution 704 × 576 (for multiview only).
 - f. **Max** - display video with original resolution.

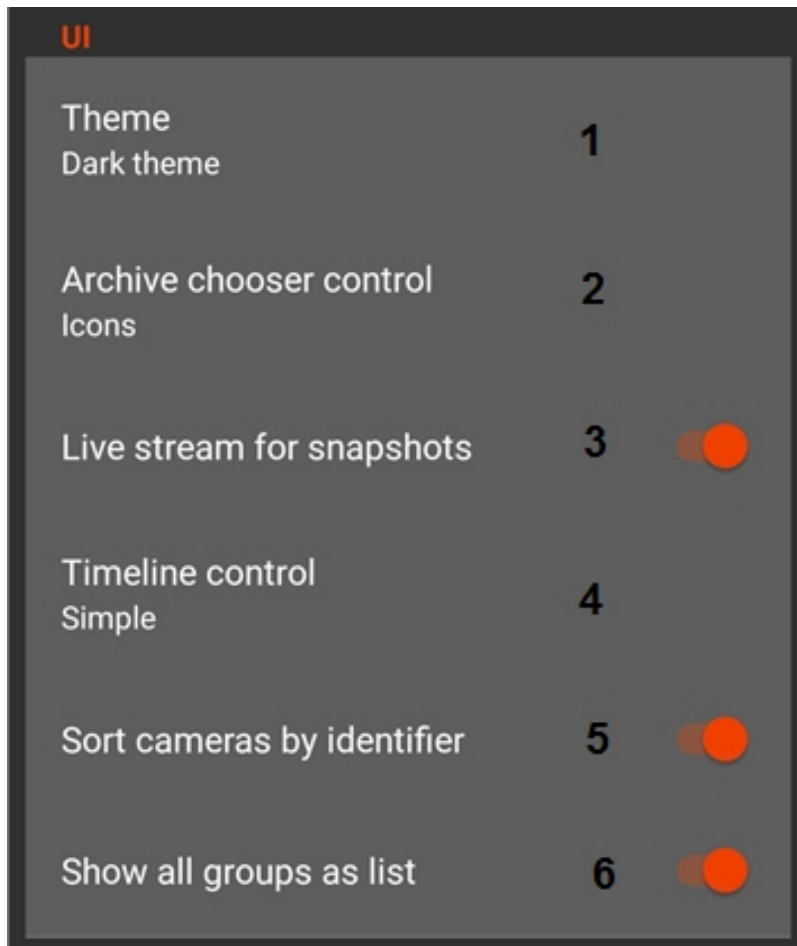
Note. These restrictions are recommended when your mobile device has a slow Internet connection.

5. Select the video display mode in the tile (**5**, see [Displaying and searching for cameras in Android Mobile Client](#)).

Configuring the Android mobile client interface

The Android mobile client interface is configured by setting the following parameters:

1. **Theme (1)**: select the color skin of the Client interface.
2. **Archive chooser control (2)**: select how to switch between video surveillance modes (buttons or list, see [Viewing previously recorded video in the Android mobile client](#))



3. **Live stream for snapshots (3)**: when the parameter is enabled live streams are displayed in the quad, when the parameter is disabled – frames at some update rate.
4. **Timeline control (4)**: select the view of the time scale.



Note.

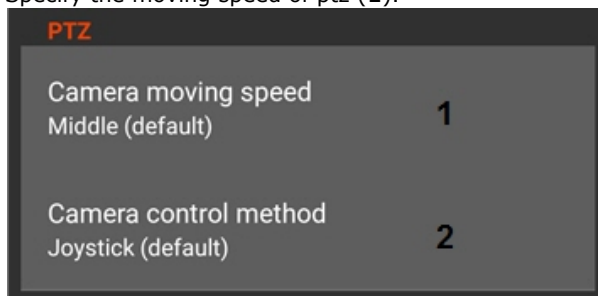
Only one view of the time scale is available in the current version of the Client.

5. **Sort cameras by identifier (5)**: when the parameter is enabled cameras are sorted by their ID in quad, when the parameter is disabled – by their names.
6. By default the main group (region) including all cameras is displayed in the list of groups (regions). Disable the corresponding parameter in order not to display the group (region) in the list (**6**).

Configuring PTZ cameras control

Configure control over PTZ cameras as follows:

1. Specify the moving speed of ptz (**1**).

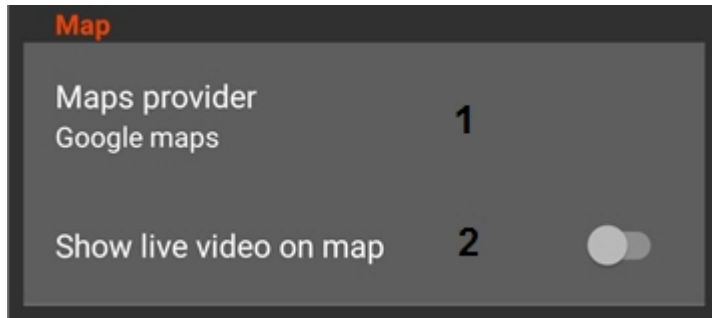


2. Select PTZ camera control mode (**2**, see [Controlling PTZ cameras from the Android Mobile Client](#)): step keys or a virtual joystick.

Configuring geomaps

Configure geomaps as follows:

1. Select geomap provider: Google or OpenStreetMap (**1**).

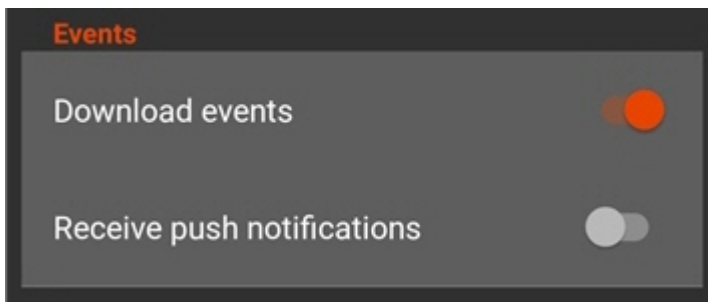


2. By default live video is displayed in the bottom right corner of the screen when selecting a camera. Disable the corresponding parameter in order not to display live video on the map (2).

Configuring getting event in Android Mobile Client

By default Android Mobile Client gets events from the Server.

Disable the corresponding parameter in order not to get events.



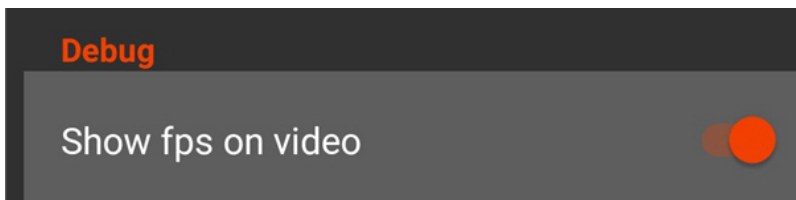
Note

Push notifications are not available in the current version of Android Client.

Showing fps on the video

One can show fps on the video in the Android mobile client.

For this enable the **Show fps on video** parameter.



As a result fps is shown on the video.



Configuring crash reports

When the Android mobile client crashes a crash report is created. It is automatically sent to AxxonSoft for analysis.

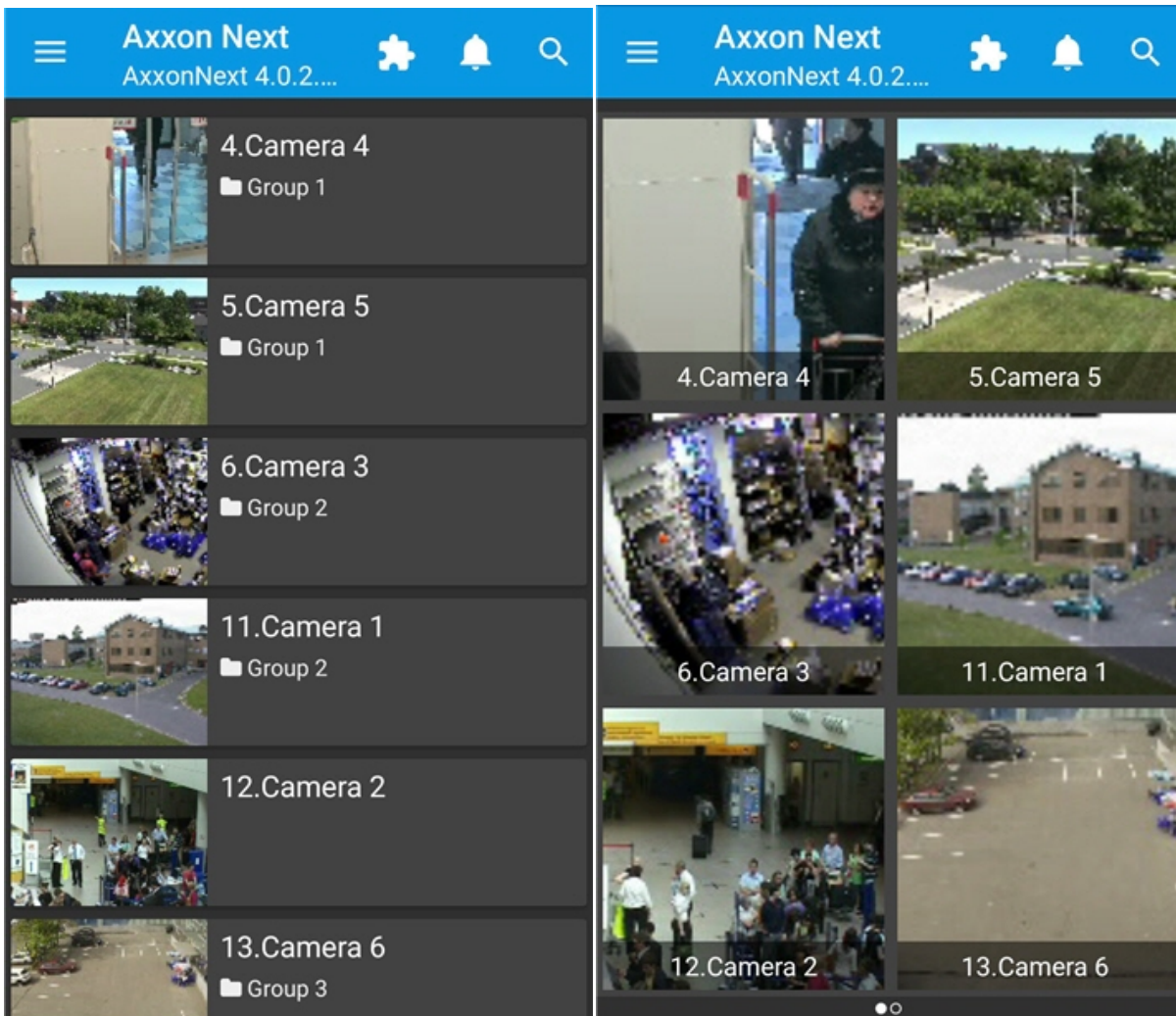
To stop crash reporting disable the **Crash reports** parameter.




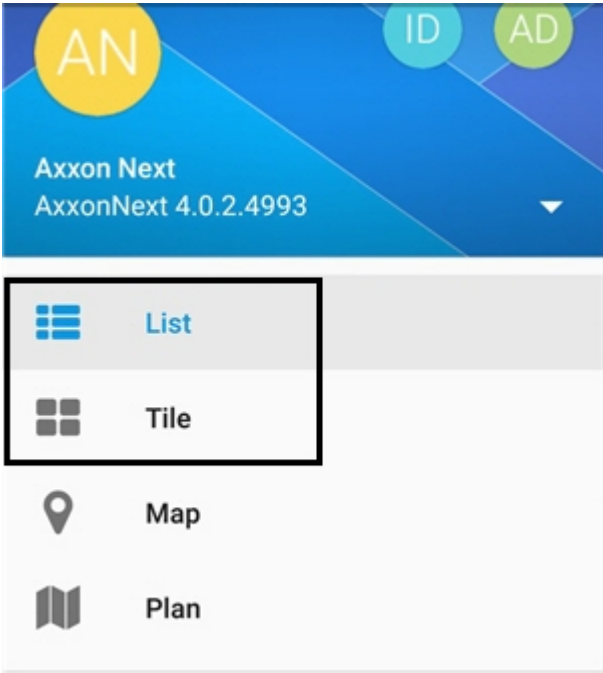
Displaying and searching for cameras in Android Mobile Client

Cameras can be shown as the list or tiles in the Android mobile client.

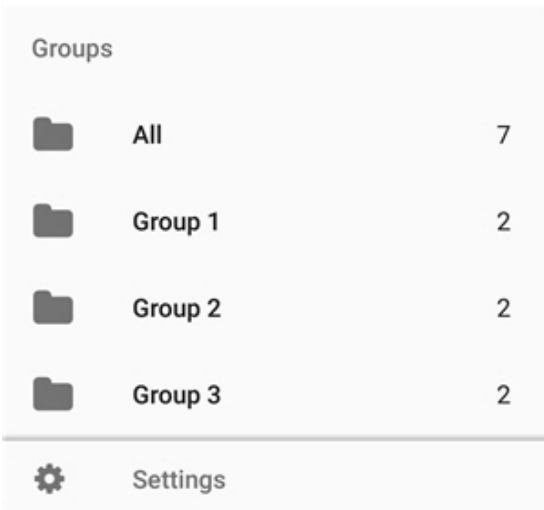
Note
After you connect to a Server, cameras are shown as a scrolling list.



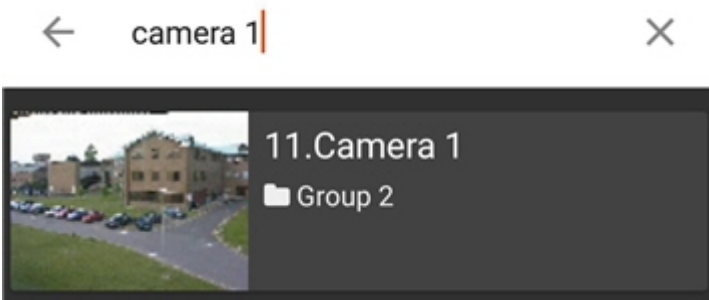
To change the camera display mode go to the menu by clicking the  button and select the required item.



To display video cameras of the specified group (in the *Axxon Next* software, see the [Configuring video camera groups section](#)) or region (in the *Intellect* software, see the [Examples of using areas and regions section](#)) open the main menu and select the group.



Search for cameras by the name is available. For this click the  button and enter a part of the name or the full name of the camera.



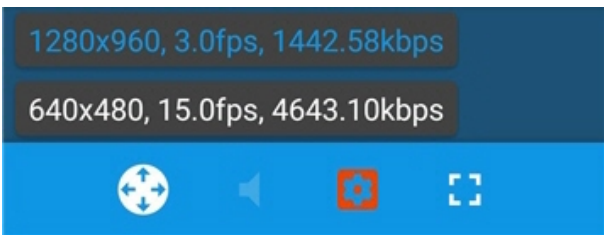
Viewing live video in the Android mobile client



To view live video, select the necessary camera.

This opens a viewing tile for the camera.




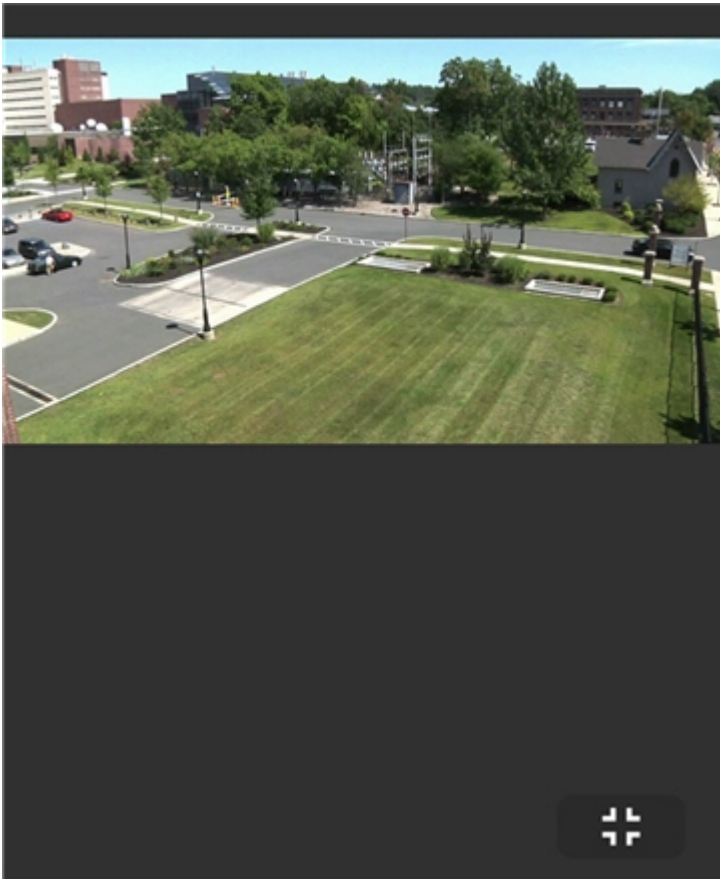
If the camera supports multistreaming, then click the  button to select the video stream.



If there is a microphone on the camera and the RTSP playback format is selected in the settings (see *Configuring video*), then audio from the camera is played back by default. To disable audio click the  button, the icon changes to .


Note
Audio playback is available only when working with *Axxon Next Server*.

To open the video in full screen click the  button.




To return click the  button.

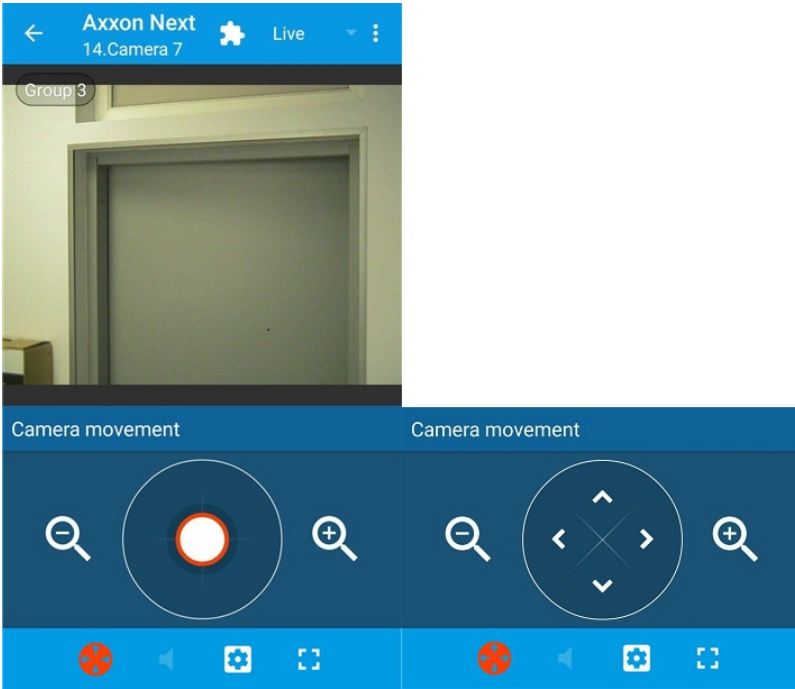
To go to extra actions (macros, events, switch to map, screenshots) click the  button and select the required action.

To return to the list of cameras, tap the **Back** button of the mobile device or app (.



Controlling PTZ cameras from the Android Mobile Client


You can control PTZ cameras. To get started, open a viewing tile for a camera and click the  button on the bottom control panel.

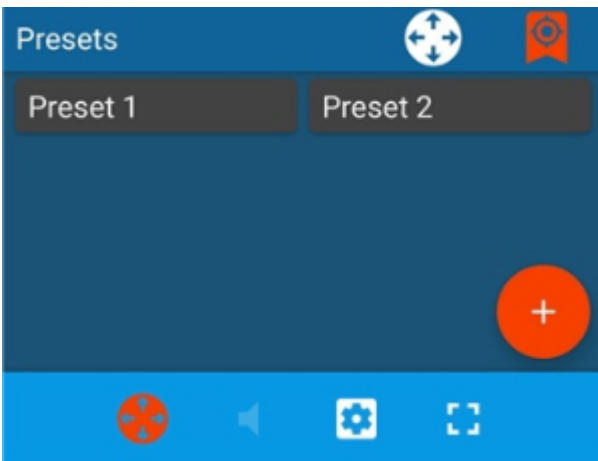
The camera viewing angle is controlled using a virtual joystick or step keys depending on the Client settings (see [Configuring PTZ cameras control](#)).




Note. Rotation on optional angle is not available while connecting to the *Intelect* Server. Joystick can move strictly on vertical or horizontal direction.

To control optical zoom, use the  and  buttons.

To go to the preset go to the  tab and select the required preset in the list.




To add a new preset click the  button.

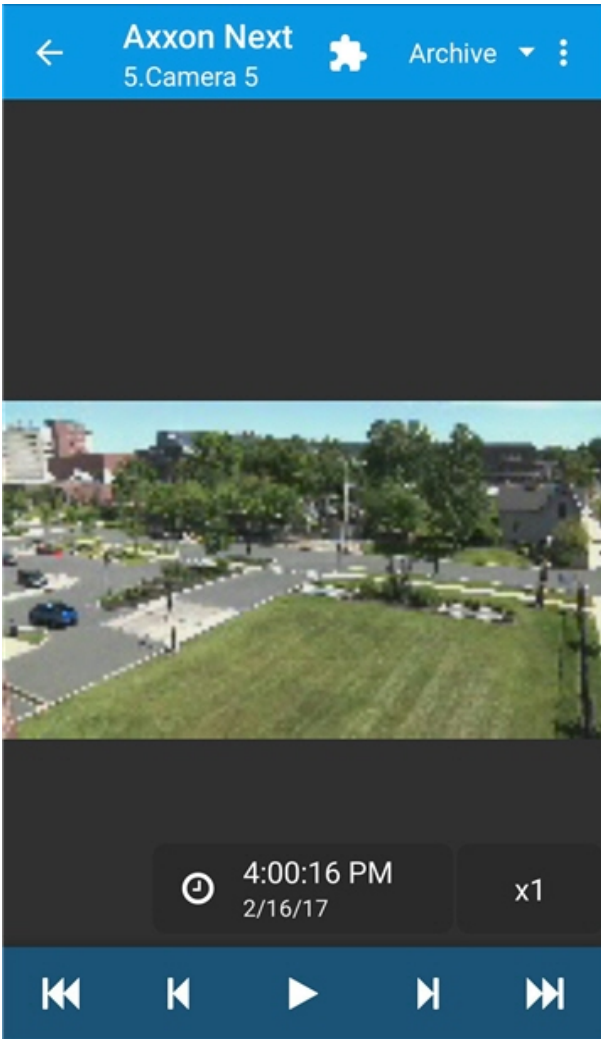
Also it is possible to focus some area of the video image frame.

To do this hold the finger on the interested area during 1 second and then move the finger to change the size of appeared blue frame. After that the lens orientation will be changed in such way that selected area will display at full window (**Areazo om**).







Viewing previously recorded video in the Android mobile client

To view video archive in the Android mobile client select a required camera in the list and go to the  tab or select **Archive** in the corresponding list (depending on the display settings, see [Configuring the Android mobile client interface](#)).

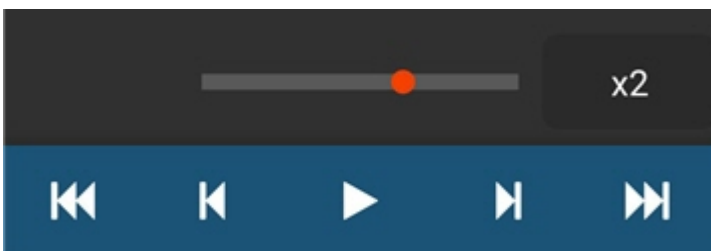
Archive view mode.



Video playback is controlled using these buttons:

- Play recording: ;
- Pause playback: ;
- Go 10 minutes back ;
- Go 10 minutes forward ;
- Go to the archive beginning - to the first recorded video ;
- Go to the archive ending - to the last recorded video .

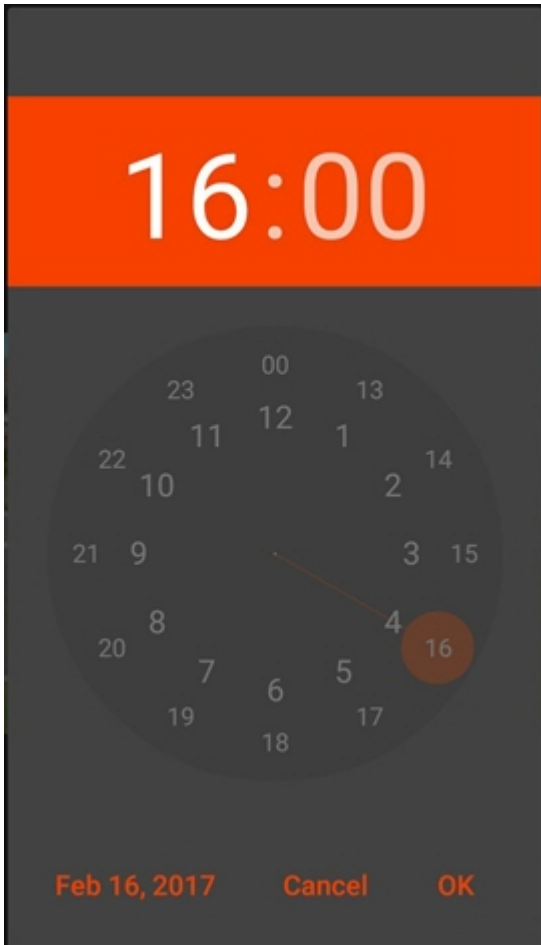
Playback can be speeded up, slowed down as well as it can be backward/forward.



To play video backwards put the slider to the left from the initial position (x1). The current playback speed is displayed below the slider on the maps. To play video forwards put + before the speed; to play video backwards put - before the

speed.

To navigate the archive click the time and date form and select the required time.



Digital zoom in the Android mobile client

Digital zoom can be performed both in live video and archive view modes.

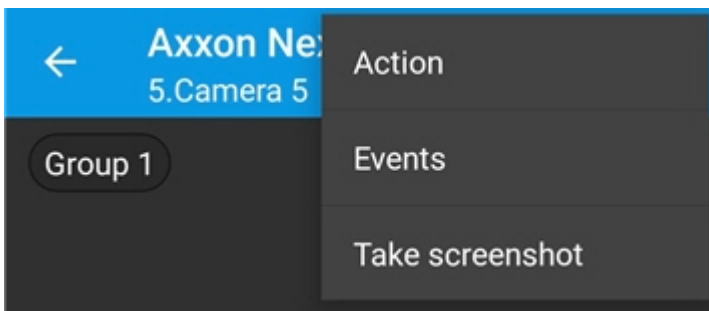
To zoom, pinch the video with two fingers.

Video cannot be made smaller than its original size. 16x is the upper zoom limit.

To select the visible part of the frame when zoom is active, tap and drag the viewing tile.

Making a screenshot


To make a screenshot click the  button and select the **Take screenshot** item.

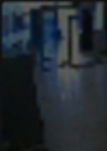
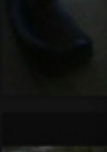

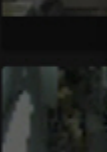
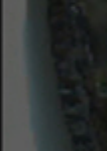
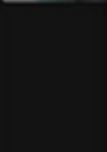
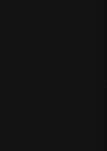



The date (current or archive), Server name and camera name will be added to the screenshot.

Viewing a list of system events in the Android mobile client







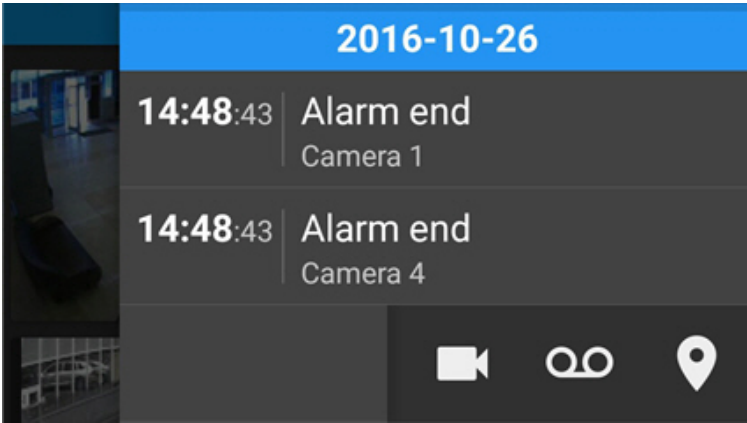
To view the list of system events click the  icon in the top right corner.

Events	
2016-10-26	
	14:49:15 Come in zone ended 2.Camera
	14:48:52 Come in zone began 2.Camera
	14:48:05 Come in zone ended 2.Camera
	14:47:54 Come in zone began 2.Camera
	14:44:54 Come in zone ended 2.Camera
	14:44:30 Come in zone began 2.Camera
	14:38:09 Come in zone ended 2.Camera
	14:37:47 Come in zone began 2.Camera

Note. The full name of person will be displayed in the event while face recognition on the Server of the *Intellect* software package, the recognized license plate – while license plate recognition.

Attention! While switching to the list of events from the mode of video image viewing for the specified camera, than events only for this camera will be displayed in the list.

To switch to live video, archive or map from the received event, swipe your finger over the event from right to left and click the corresponding icon ( - live video,  - an archive,  - geomap,  *Intellect* map (diagram)).




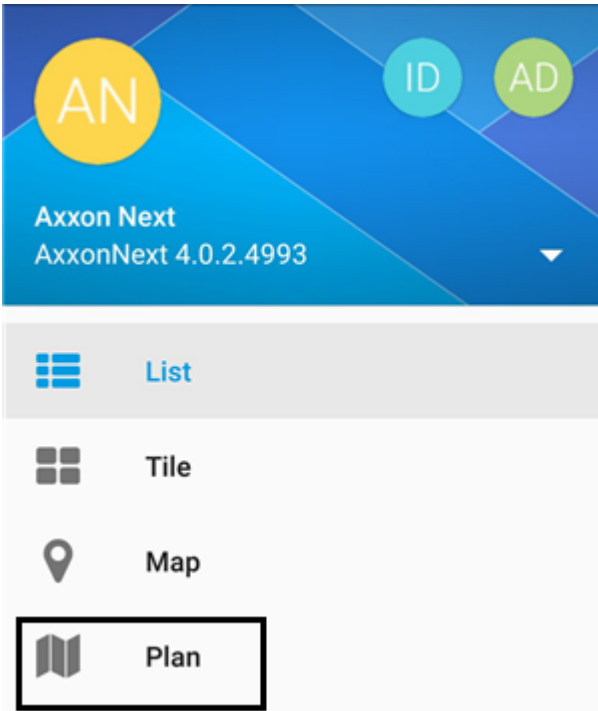
Working with maps in the mobile Android Client

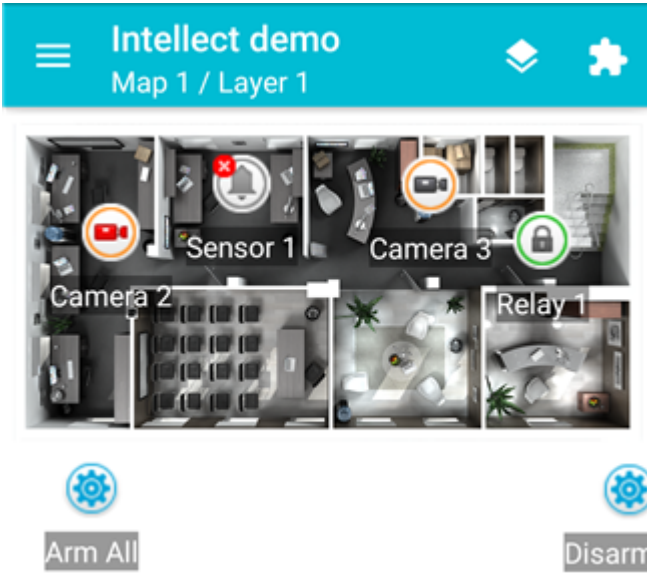
The following maps are available in the Android Mobile Client:

- 1. *Intellect* maps (see [Setup procedure](#) for the interactive map).
- 2. Google and OpenStreetMap geomaps (see [Configuring geomaps](#)).

Working with Intellect maps

To view the map, call the main menu by clicking the  button and select the **Plan** item.





To switch the maps, click the  button and select the required one.

Choose map

- Map 1
- Map 2

CHOOSE








If there are several layers on the map, then they are listed by right-left scrolling.

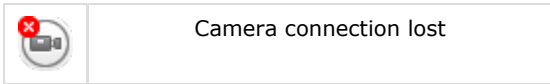
Icons for the following devices can be displayed on the map in the mobile Client: cameras, sensors, and relays. In addition, icons for macros can be displayed. Icons indicate the current status of devices and allow controlling them.

You can adjust the scale of the map in the Android Client. Simply pinch your fingers on the screen (to zoom out) or move them apart in a sweeping motion (to zoom in).

Using cameras

The icon of a camera on the map indicates the current status of the camera:

Icon	Status
	Camera alarm, recording is not active
	Camera alarm, recording is active
	Camera armed, recording is not active
	Camera armed, recording is active
	Camera disarmed, recording is not active
	Camera disarmed, recording is active
	Camera disabled in the System



Live video is displayed when clicking the camera icon.

To control a camera on the map, tap its icon – the context menu will appear:

Actions for Camera 2

Start recording

Stop recording

Disarm

Arm

To perform an action select a command. A description of commands is given in the [Intellect Operator's Guide](#).

Using relays

The icon of a relay on a map displays the current status of the relay.

Icon	Status
	Relay disabled in the System
	Relay connection lost
	Relay off
	Relay on

To control a relay from the map, tap its icon to open its context menu:

Actions for Relay 1

Disable






Enable

To perform an action select a command. A description of commands is given in the [Intellect Operator's Guide](#).

Using sensors

The icon of a sensor on a map displays the current status of the sensor.

Icon	Status
	Sensor armed + alarm event accepted
	Sensor armed + alarm

	Sensor armed
	Sensor disarmed + alarm
	Sensor disarmed
	Sensor disabled in the System
	Sensor connection lost

To control a sensor from the map, tap its icon to open its context menu:

Actions for Sensor 1

Disarm

Arm

Classify alarm

To perform an action select a command. A description of commands is given in the [Intellect Operator's Guide](#).

Using macros

To execute the macro on the map, click its icon and then - **Execute action**.

Actions for Arm All

Execute action



Note

Macros can be executed only when there is connection to *Intellect* Server.

Working with geomaps

For the camera to be displayed on the geomap the camera name is to contain geographical coordinates in [X, Y, Z] format, where

X - latitude;

Y - longitude;

Z – camera rotation angle relative to the vertical axis, optional parameter.

For instance, this camera will be displayed on the map in the point with [53.462076, -2.289342] coordinates.

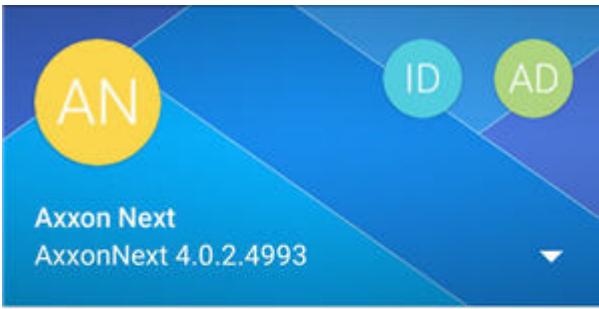
5.Camera 5 [53.462076, -2.289342, 180]

Object identification

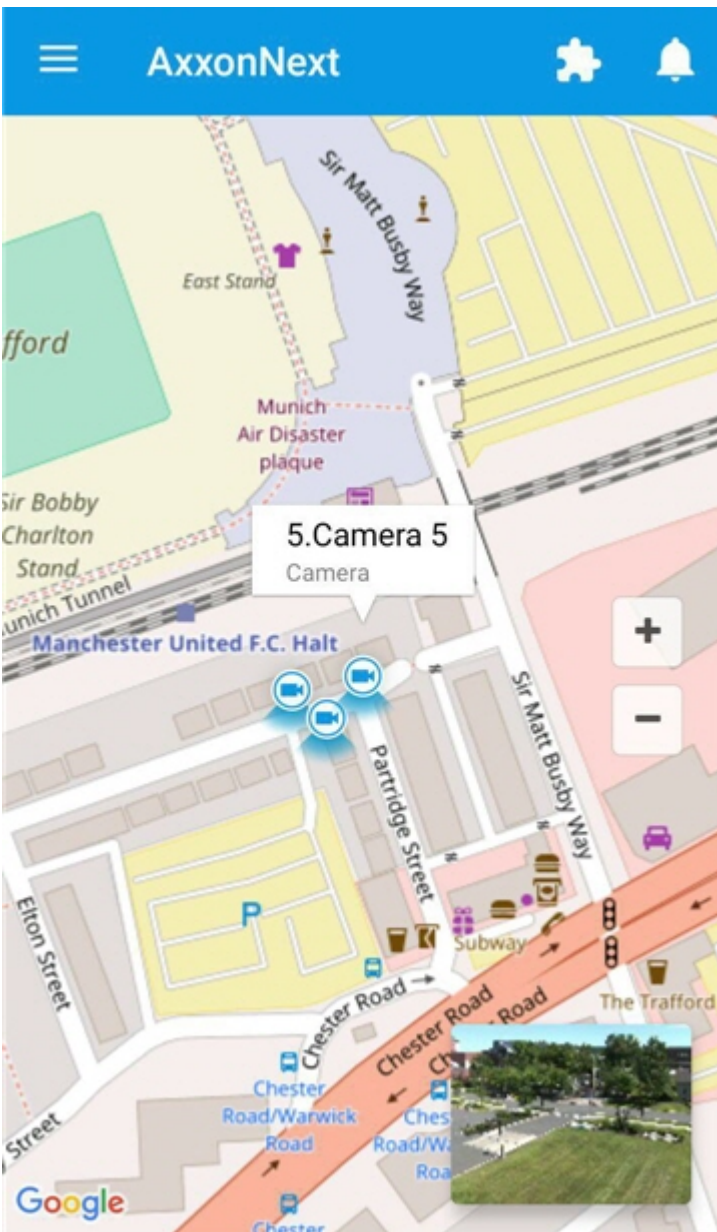
Enable	Yes
ID	5
Name	Camera 5 [53.462076, -2.289342, 180]



To view the geomap, call the main menu by clicking the  button and select the **Map** item.



- List
- Tile
- Map
- Plan




Live video appear in the bottom right corner of the screen when clicking the camera icon on the map (if this option is enabled in settings, see [Configuring geomaps](#)).

Video will be played back in a new window when clicking the video or camera name (see [Viewing live video in the Android mobile client](#)).

Running macros in the Android mobile client

To run a macro:

1. Call the macro menu by clicking the  button.
2. Select the necessary macro in the list.

Macro actions

Start Recording

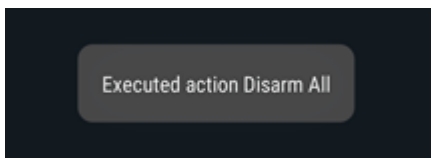
Stop Recording

Arm All

Disarm All

Test Push Notification

The message about successful macro running is displayed from below.



Moreover, the macro can be executed on the map (see [Using macros](#)).