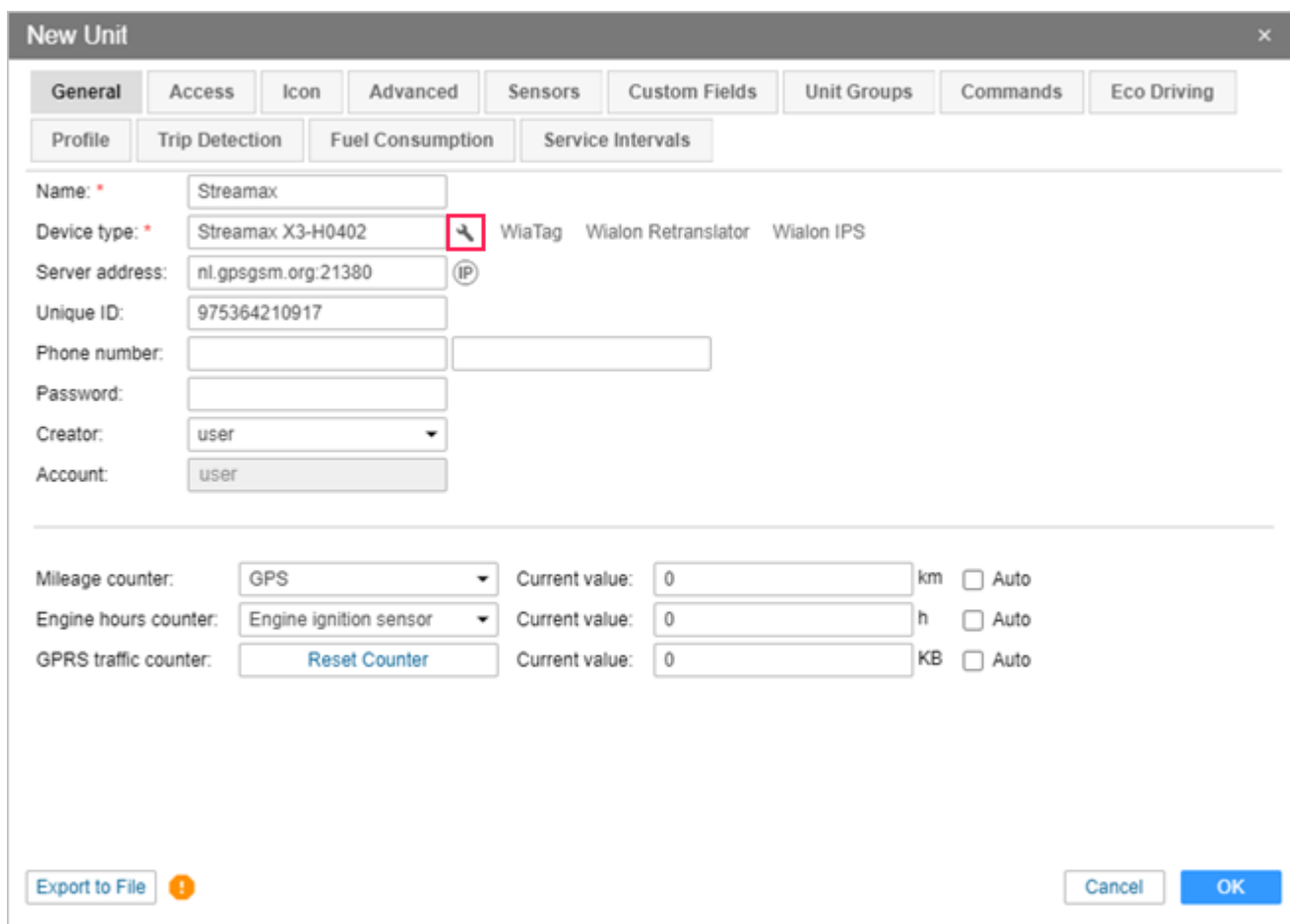# Configuring a Unit with a Streamax Device in Wialon

This guide describes how to configure a unit which uses a device of the [Streamax company](#) to record short live videos using the **record_live_video** command. In the same way, you can execute other commands described in the [supplement](#) to the guide.

1. Create a unit. On the **Advanced** tab, specify the unit name, device type and its unique ID.

2. Click on the icon 🔧 to open the **Device configuration** window.

3. The settings available in the open dialog box are described below.

- **Timezone in minutes**. The difference between the time zone of the device and GMT +0 in minutes, if they differ. For example, if the time zone of the device is **GMT +3**, you should type **180** in the field (without the plus sign). If GMT has a minus, indicate a value with a minus sign. Besides, the device should have the same time zone as in Wialon.

- **Video server**. In Wialon Hosting, this field is completed automatically. In Wialon Local, indicate the IP address of Wialon Local and the port of this device type in Wialon.

- **Request IO status automatically**. If the option is enabled, the system automatically sends requests about the status of the device inputs and outputs.
- **Extended data format**. The option specifies the format of the data sent by the device. You can indicate one of the three possible values.

  0: standard format (may not be supported at the firmware level);

  1: extended format which include the parameters iostate, ioenable, iomode, iolevel, accx, accy, accz, accax, accay, accaz, acc_state, ign; swipe card parameters driver_numN, driver_pnumN; computer diagnostic data obd_engine_temp, obd_water_temp, obd_engine_rpm, obd_short_fuel, obd_total_fuel, obd_short_mileage, obd_total_mileage, obd_speed;

  3: special extended format for cement trucks which include the parameters ign, mileage, wash_state, water_volume, drum_direction, drum_speed.

- **IP**. This field indicates the IP and the RTMP port of the Ceiba II server which is set by the user. FTVision server can be also used instead of Ceiba II.
- **Cameras aliases.** Indicate the ID of video streams separated by commas without spaces in the format live?devid=**<unique ID>**&chl=**<camera number>**&st=0&dt=124 (for example, live?devid=975364210917&chl=0&st=0&dt=124,live?devid=975364210917&chl=2&st=0&dt=124,live?devid=975364210917&chl=3&st=0&dt=124).

4. Click **OK.**

Device configuration		×
Parameter name	**Parameter value**	**Reset**
Video server:	193.193.165.165:21380	☐
Request IO status automatically:	☐	☐
Extended data format:	1	☐
IP:	10.192.134.206:22001	☐
Cameras aliases:	live?devid=9753642109178	☐
	Cancel	OK

5. On the **Commands** tab of the unit properties, create a command to record videos. To do this, select the **Record live video (record_live_video)** type. In the **Channel** field, select **TCP**. Click **OK**.
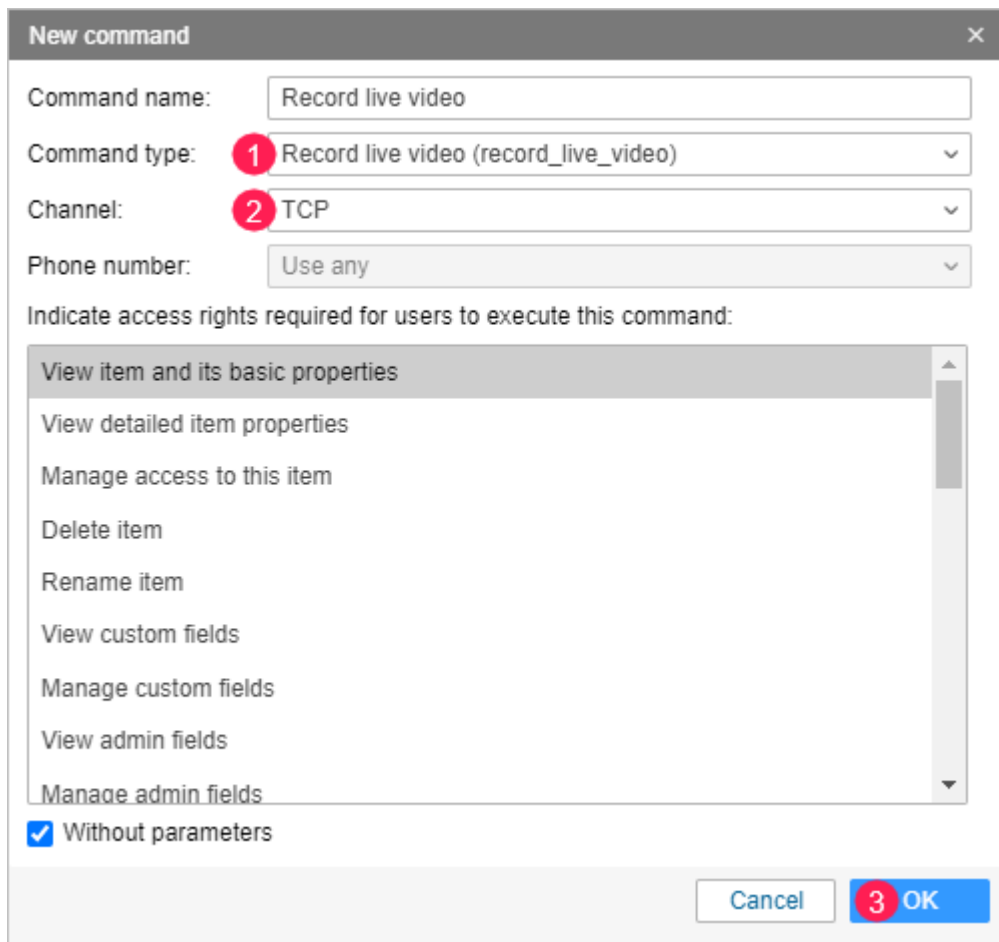
6. Make sure that the unit which should transmit videos is online (a green icon is displayed opposite the unit name in the work list).
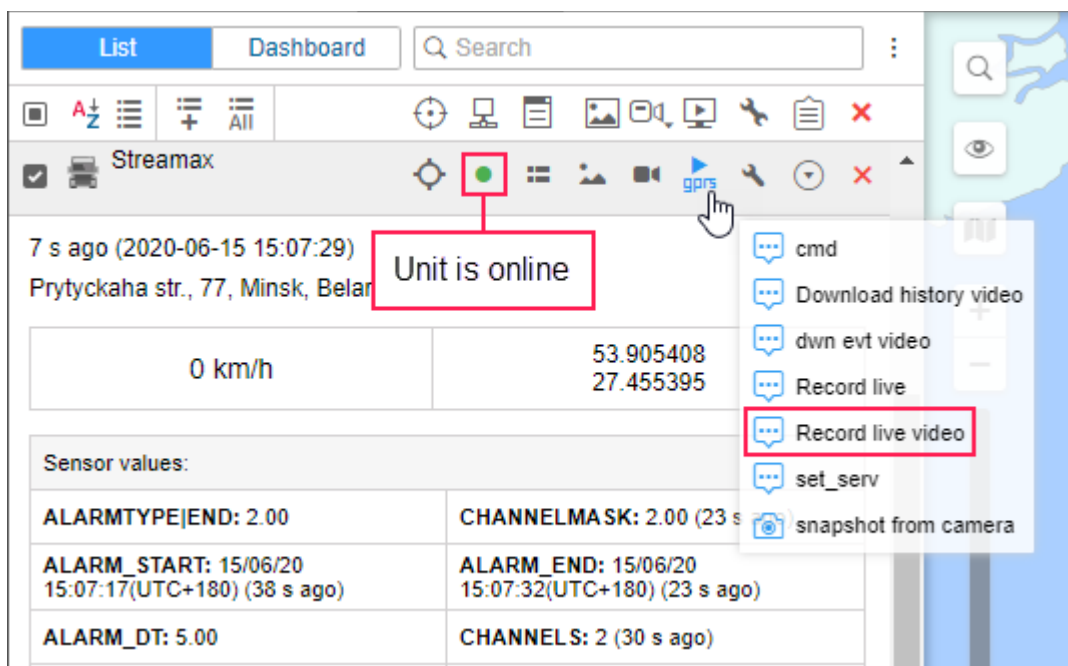
7. Click on the icon ▶gprs to send the command. In the list of available commands, select the one created at step **5** (Record live video). Click **Next**.

8. Indicate the camera number and the video duration in seconds (not more than 20). Click **OK**.

9. In the **Chat with Drivers** window, you will see the messages about the beginning and the end of the video download.
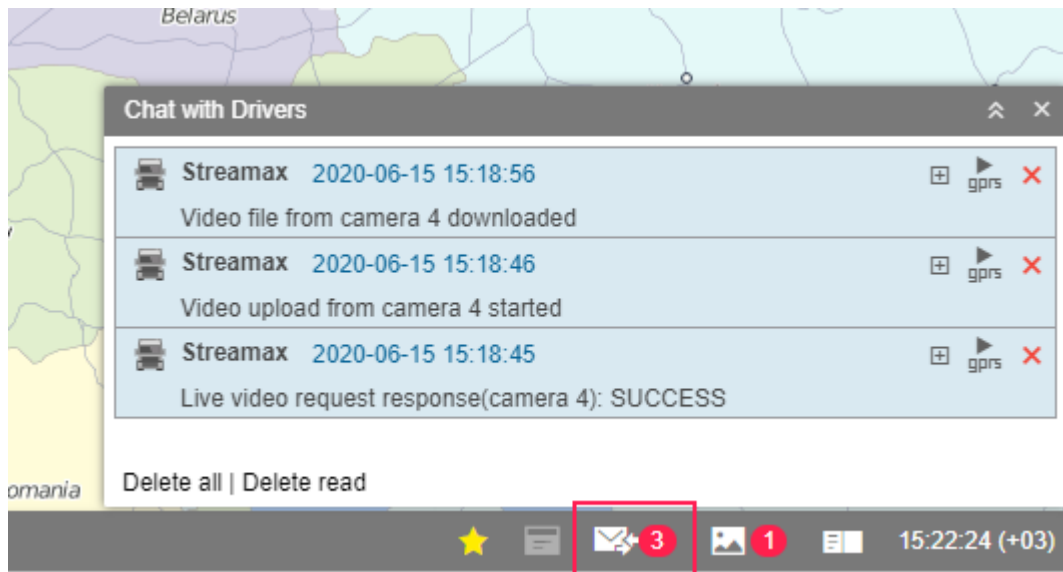
10. After downloading is complete, a red indicator is displayed near the icon in the bottom panel. Click on it to play the video. You can also click on the icon opposite the unit name in the monitoring list (the **Media** option).
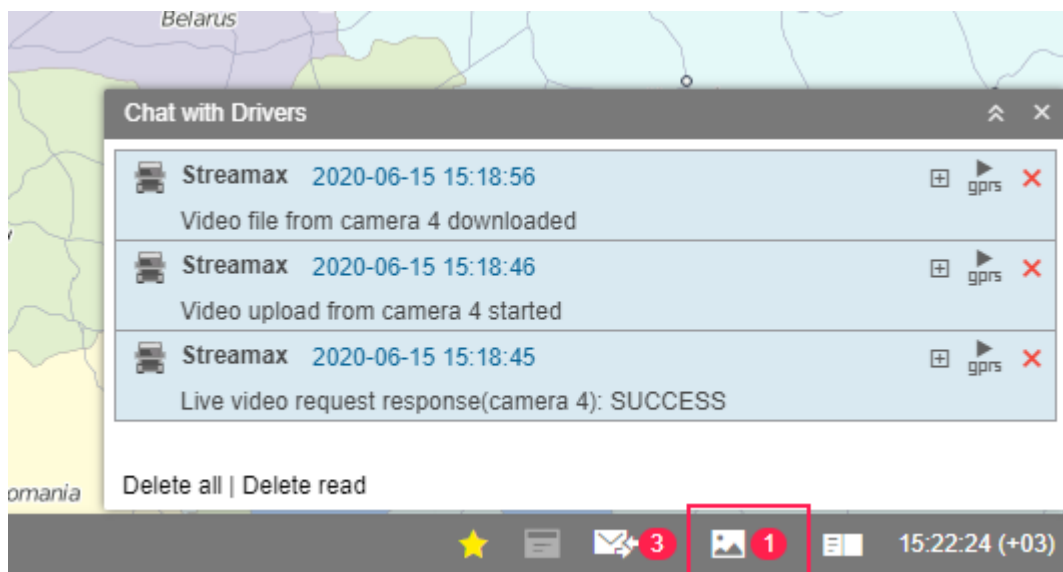
Streamax

Other available commands

Other commands available for Stremax devices are described below. All commands are sent via the **TCP** or **Auto** channel.

If photo or video files are downloaded as a result of the command execution, you can access them in three ways:

- in the work list of the **Monitoring** tab (the icon opposite the unit name);
- in the bottom pannel (the icon);
- in the **Media** column of the data messages.

> No special command is needed to start **broadcasting live video**. You only need to configure the unit according to this guide (steps **1 — 6**) and click on the icon opposite the unit name in the work list of the **Monitoring** tab. The icon becomes available after the unit sends at least one message with coordinates.

Download event video (download_event_video)

This command is used to download a video recorded by the device when an alarming event (for example, a traffic accident) occurs.

Download history video (download_history_video)

This command allows to download video files from the device memory. When creating the command or before sending it, you should specify the video start time (**Start time**), the camera number and the video duration (**Duration**) in the range from **1** to **10** seconds.

Request IO status (get_io_status)

After this command is sent, the device sends a message with the status of its inputs and outputs. To see the status, request data messages for the period you need in the **Messages** tab. The command is similar to the **Request IO status automatically** option described earlier in this guide, but unlike it, the data with the status of inputs and outputs is only sent once.

Request outputs status (get_outputs_status)

The command allows to get the status of the device outputs. The result of executing the command is displayed in the **Chat with Drivers** window.

Query snapshot from camera (query_photo_cam)

This command is used to request a snapshot. When creating or before sending it, you should select the channel (camera) number.

Request gps configuration (request_gps_configuration)

The command allows to find out the values indicated using the **Set data transfer interval (set_report_interval)** command. The result of executing the command is displayed in the **Chat with Drivers** window.

Set data format (set_data_format)

This command allows to set one of three data formats sent by the device. The selected format should correspond to the one indicated in unit properties in the **Device configuration** window (**Extended data format** field).

- **Standard**: corresponds to the value **0** in unit properties.
- **Extended**: corresponds to the value **1** in unit properties.
- **Extended2**: corresponds to the value **3** in unit properties.

Activate output (set_output_on)

The command allows to activate one of the outputs of the device. When creating or before sending the command, you should fill in the fields described below.

Output index. The number of the output that you need to activate.

Mode. Output activation mode. There are two available modes:

- **Timing**: the output remains activated during the time indicated in the **Activation time** field.
- **Continuous**: the output remains activated permanently.

Activation time. Time in seconds during which the output should remain activated. It is only indicated for the **Timing** mode.

Deactivate output (set_output_off)

The command allows to deactivate one of the outputs of the device. Its settings are similar to the settings of the **Activate output (set_output_on)** command described earlier.

Set data transfer interval (set_report_interval)

This command is used to modify the settings related to data sending frequency which are listed below.

Enable real-time position monitoring. The option allows to enable (**Enable**) or disable (**Disable**) sending coordinates by the unit.

Time interval in seconds. Time interval in seconds after which the unit should send data.

Distance interval in meters. Interval in meters after which the unit should send data.

Number of uploads. This option allows to restrict the number of data packages sent by the unit. The possible values are from **0** to **65 535**. If the value is set to **0**, the data volume is not limited.

Set server configuration (ser_server_config)

This command is used to remotely change the device settings related to the server. As a result of executing the command, the settings in **Settings** → **Network** → **Server** tab will be changed.