# **Configuring a Unit with a Streamax Device in Wialon**

This guide describes how to configure a unit which uses a device of the <u>Streamax company</u> to record short live videos using the **record\_live\_video** command. In the same way, you can execute other commands described in the <u>supplement</u> to the guide.

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

New Unit										
General A	ccess	Icon	Advanced	1	Sensors	Custom Fields	Unit Groups	Commande	Eco Driving	
Profile Tri	p Detec	tion	Fuel Consump	otion	Service	Intervals				
Name: *	Stream	max								
Device type: *	Stream	max X3-H0	402	<b>4</b> V	ViaTag Wi	ialon Retranslator	Wialon IPS			
Server address:	nl.gps	gsm.org:2	1380	P						
Unique ID:	97536	4210917								
Phone number:										
Password:										
Creator:	user		-							
Account:	user									
Mileane counter	Г	GPS			Current val	lue: 0		km 🗆 Auto		
Faciac bours course		Contro inc	ilion concor	-	Current val					
Engine nours cour	nter.	Engine ign	nuori sensor	-	Current val					
GPRS traffic coun	iter:	Re	set Counter		Current va	lue: 0		KB [] AUIO		
Export to File									Cancel	K

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

New Unit								
General A	ccess Ico	n Advanced	Sensors C	ustom Fields	Unit Groups	Commands	Eco Driving	
Profile Tri	p Detection	Fuel Consumptio	on Service Inte	rvals				
Name: *	Streamax							
Device type: *	Streamax X3-	H0402 🔧	WiaTag Wialon	Retranslator	Wialon IPS			
Server address:	nl.gpsgsm.org	:21380 P						
Unique ID:	97536421091	7						
Phone number:								
Password:								
Creator:	user	-						
Account:	user							
Mileage counter:	GPS		Current value:	0	km	🗌 Auto		
Engine hours cou	nter: Engine	ignition sensor	<ul> <li>Current value:</li> </ul>	0	h	Auto		
GPRS traffic court	iter:	Reset Counter	Current value:	0	КВ	🗌 Auto		
						_		
Export to File	•						Cancel	ĸ

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

Device configuration			×
Parameter name	Parameter value	Reset	
Timezone in minutes (for example: -180):	180		•
Video server:	193.193.165.165:21380		
Request IO status automatically:			
Extended data format:	1		
IP:	10.192.134.206:22001		-
	Cancel	ОК	

- 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	ОК	

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.

New command		×		
Command name:	Record live video			
Command type: 🚺	Record live video (record_live_video)	~		
Channel: 2	TCP	~		
Phone number:	Use any	~		
Indicate access rights	required for users to execute this command:			
View item and its bas	sic properties			
View detailed item properties				
Manage access to this item				
Delete item				
Rename item				
View custom fields				
Manage custom field	s			
View admin fields				
Manage admin fields				
<ul> <li>Without parameter</li> </ul>	S			
	Cancel 30	Ж		

**6.** Make sure that the unit which should transmit videos is online (a <u>green icon</u> is displayed opposite the unit name in the work list).

List Dashboard	Q Search :
■ ^ż 🏼 ∓ 🔚 🤤	
2 🚔 <sup>Streamax</sup>	≻ ■ = ┶ ■ ╠ <sub>л</sub> ∢ ⊙ × ↑    ●
7 s ago (2020-06-15 15:07:29) Prytyckaha str., 77, Minsk, Belar	it is online
0 km/h	53.905408 wn evt video 27.455395 Record live
Sensor values:	erry Record live video
ALARMTYPE END: 2.00	CHANNELMASK: 2.00 (23 s ) snapshot from camera
ALARM_START: 15/06/20 15:07:17(UTC+180) (38 s ago)	ALARM_END: 15/06/20 15:07:32(UTC+180) (23 s ago)
ALARM_DT: 5.00	CHANNELS: 2 (30 s ago)

Click on the icon to send the command. In the list of available commands, select the one created at step 5 (Record live video). Click Next.

Execute a	Command - Streamax	×
Availa	ble commands	Supported
0 😳 F	Record live	~
) 😳 c	md	×
0 😳 🛙	Download history video	~
🔿 😇 s	et_serv	×
🔿 😳 d	wn evt video	~
🔿 🙆 s	napshot from camera	×
10 💬 F	Record live video	×
		Cancel 2 Next

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

Execute a Command	I - Streamax		×
Record live video			
Camera number:	1 4		
Duration:	2 5		
		Cancel Back	3 ок

**9.** In the **Chat with Drivers** window, you will see the messages about the beginning and the end of the video download.

$\leq$	Belarus	Kall				$\sim$
51	Chat with Driver	S			*	×
A	📇 Streamax	2020-06-15 15:18:56			🕀 上	×
n.L	Video file f	rom camera 4 downloaded				
$\sum$	🚆 Streamax	2020-06-15 15:18:46			🗄 岸	×
A	Video uplo	ad from camera 4 started				
$\sim$	Streamax	2020-06-15 15:18:45			🕀 📩	×
	Live video	request response(camera 4	4): SUCCES	S		
omania	Delete all   Dele	te read				ę
		* 🖬	¥3	<b>1</b>	15:22:24 (+	03)

**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 <u>Media</u> option).

$\leq$	Belarus	_	Kall		2				~
51	Chat with D	river	S					*	×
A	🚆 Stream	nax	2020-06-15 15:18:56				+	▶ gprs	×
1	Video	file fr	om camera 4 downloa	ded					
$\sum$	🚆 Stream	nax	2020-06-15 15:18:46				+	▶ gprs	×
$\sim$	Video	uploa	ad from camera 4 start	ed					
$\sim$	🚔 Stream	nax	2020-06-15 15:18:45				+	gprs 🕨	×
	Live vi	deo i	request response(cam	era 4): Sl	JCCESS				
omania	Delete all   [	Delet	e read						e,
			🔶 📩 🗄	- 😒	3 ⊾	1	15:22	:24 (+	-03)



# 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 approximate opposite the unit name);
- in the <u>bottom pannel</u> (the icon **L**);
- in the Media column of the <u>data messages</u>.

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  $\blacksquare$  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 <u>data messages</u> for the period you need in the **Messages** tab. The command is similar to the **Request IO status automatically** option described <u>earlier</u> 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 <u>Set data transfer interval</u> (<u>set report interval</u>) 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 (<u>Extended</u> <u>data format</u> 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 <u>Activate output (set output on)</u> 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**  $\rightarrow$  **Network**  $\rightarrow$  **Server** tab will be changed.