

Configuring a SmartWitness KP1 Device and a Unit in Wialon to Download Video Files

This guide describes how to configure a Smartwitness KP1 device and a unit in Wialon to download video files. After configuration, you can also execute other commands described in the [supplement](#) to the guide.

Configuring a SmartWitness KP1 Device

1. Take out the memory card from the device and insert it into your computer.
2. Install and start KP1 Configuration Tool.
3. In the configuration tool, click **Open** and select the **settings.ini** file on the device memory card. If there is no such file, click **Initialize SD Card**, after which the file will appear on the memory card.

The screenshot shows the 'Configuration Settings' window for a SmartWitness KP1 device. The window has a title bar with standard minimize, maximize, and close buttons. Below the title bar are five tabs: 'Device', 'Record', 'Event', 'Info.', and 'Connectivity'. The 'Device' tab is selected and contains several configuration sections:

- Camera:** Includes a 'Cam Title' field with 'CAM1' entered, a 'Main Camera' checkbox (checked), a '2nd Camera' checkbox (unchecked), and a '2nd Camera Type' dropdown menu set to 'NTSC'.
- Vehicle Speed:** Includes a 'Source' dropdown menu set to 'Camera (GPS)'.
- Power Connection:** Includes a 'Type' dropdown menu set to 'Standard'.
- Sound:** Includes an 'Audible Camera Chime' dropdown menu set to 'OFF'.

The 'Smart G-Sensor Sensitivity' section is expanded and shows two radio button options: 'Pre-set' (selected) and 'Custom'. Under 'Pre-set', there is a 'Sensitivity' dropdown set to '5', and three input fields for 'X-Axis (Front - Rear)' (750), 'Y-Axis (Left - Right)' (750), and 'Z-Axis (Up - Down)'. Under 'Custom', there are two tables of settings:

| High Impact | X | Y | Z |
|------------------|-----|-----|-----|
| Micro G (0~2000) | 600 | 600 | 700 |
| Hz (1~20) | 4 | 7 | 10 |

| Harsh Accel/Brake | X |
|-------------------|-----|
| Micro G (0~2000) | 190 |
| Hz (1~20) | 10 |

| Harsh Turn | Y |
|------------------|-----|
| Micro G (0~2000) | 190 |
| Hz (1~20) | 15 |

At the bottom of the window, there are five buttons: 'Settings', 'Initialize SD Card', 'About', 'Open', and 'Save', followed by 'Eject SD Card'. The 'Open' button is highlighted with a red rectangular box.

4. Go to the **Server** tab. In the **Domain/Static IP and Port#** field, type the IP address and the port of the Wialon server specified on the [General](#) tab of the unit properties (the **Server address** field).

The screenshot shows the 'Configuration Settings' window with the 'Server' tab selected. The 'Domain/Static IP and Port #' field is highlighted with a red box and contains the text '193.193.165.165:20910'. The 'Save' button at the bottom is also highlighted with a blue box.

Configuration Settings

Device Record Event Info. Connectivity **Server**

Domain/Static IP and Port # 193.193.165.165:20910 (ex) http://DomainName:5000

License Key

Transmit Live Tracking Data

Live Tracking Type LiveTrack2

Transmit Event Data

Transmit Telematics Data (DRV)

Event Images

Main Camera 2nd Camera

Pre-Event 5 Frames

Post-Event 5 Frames

Event/Snapshot Quality Low

Event Triggered by

Panic Button

G-Sensor

Over Speed

Settings Initialize SD Card About Open **Save** Eject SD Card

5. On the **Connectivity** tab, complete the fields of the **Mobile Network** section.
- **Dial No.** For GSM networks, specify ****99#**.
 - **APN.** APN address. To get information about APN, contact the GSM operator.
 - **User ID.** Login to access APN.
 - **Password.** Password to access APN.

The screenshot shows the 'Configuration Settings' window with the 'Connectivity' tab selected. The 'Mobile Network' section is highlighted with a red box and a red circle with the number 1. The fields in this section are: Dial No. (+99#), APN (m2m30.welcome.by), User ID (m2m30), Password (m2m30), Authentication (NONE), SMS Center Number, and USB protocol Type (0). The 'WiFi' section is also visible with fields for AP (1), SSID, and Password. At the bottom, the 'Save' button is highlighted with a blue box and a red circle with the number 2, and the 'Eject SD Card' button is highlighted with a red circle with the number 3.

6. Click **Save** to save the changes.
7. Click **Eject SD Card**, take out the memory card from the computer, and insert it into the device.

Configuring a Unit in Wialon

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

New Unit [Close]

General | Access | Icon | Advanced | Sensors | Custom Fields | Unit Groups | Commands | Eco Driving

Profile | Trip Detector | Fuel Consumption | Service Intervals

Name: * KP1

Device type: * SmartWitness KP1 Wialon Retranslator Distance Tag GPS Tag

Server address: nl.gpsgsm.org:20910

Unique ID: 1400432

Phone number: [] []

Password: []

Creator: user


Account: user

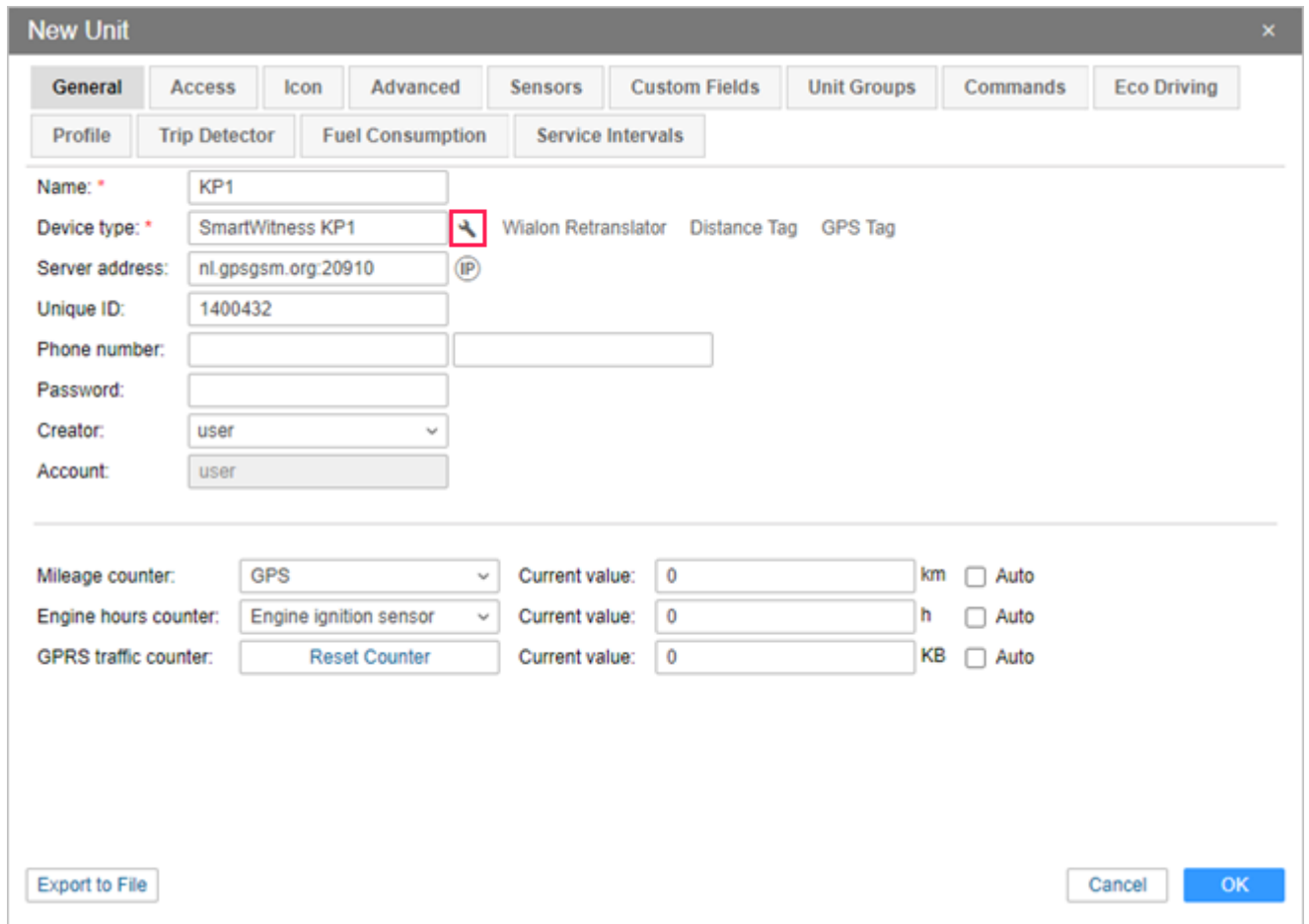
Mileage counter: GPS Current value: 0 km Auto

Engine hours counter: Engine ignition sensor Current value: 0 h Auto

GPRS traffic counter: [Reset Counter](#) Current value: 0 KB Auto

[Export to File](#) [Cancel](#) [OK](#)

2. Click on the icon  to open the **Device configuration** dialog box.




New Unit

General | Access | Icon | Advanced | Sensors | Custom Fields | Unit Groups | Commands | Eco Driving

Profile | Trip Detector | Fuel Consumption | Service Intervals

Name: * KP1

Device type: * SmartWitness KP1  Wialon Retranslator Distance Tag GPS Tag

Server address: nl.gpsgsm.org:20910 (IP)

Unique ID: 1400432

Phone number: [] []

Password: []

Creator: user

Account: user

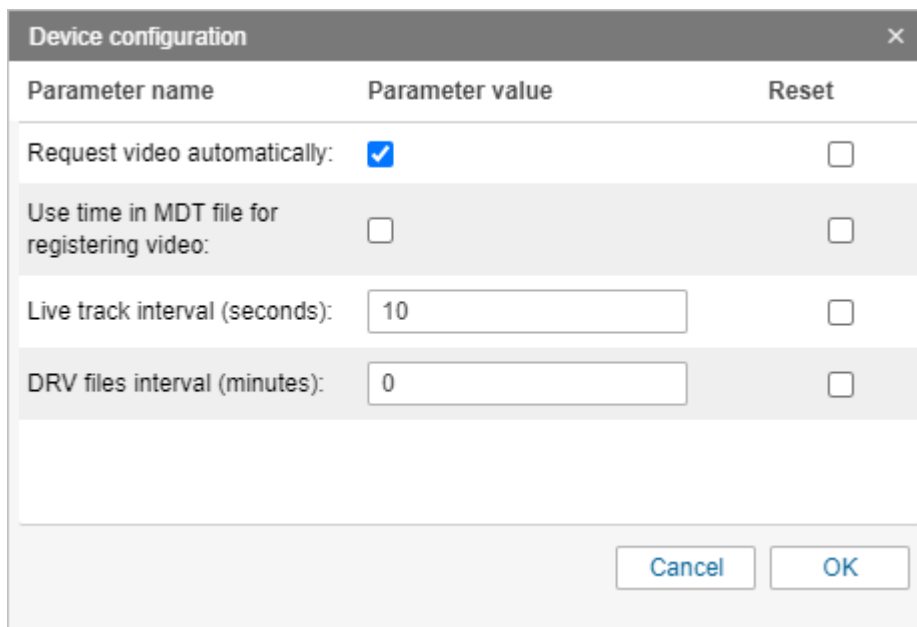
Mileage counter: GPS Current value: 0 km Auto

Engine hours counter: Engine ignition sensor Current value: 0 h Auto

GPRS traffic counter: [Reset Counter](#) Current value: 0 KB Auto

[Export to File](#) [Cancel](#) [OK](#)

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



| Parameter name | Parameter value | Reset |
|---|-------------------------------------|--------------------------|
| Request video automatically: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Use time in MDT file for registering video: | <input type="checkbox"/> | <input type="checkbox"/> |
| Live track interval (seconds): | 10 | <input type="checkbox"/> |
| DRV files interval (minutes): | 0 | <input type="checkbox"/> |

[Cancel](#) [OK](#)

- **Request video automatically.** If this option is enabled, the device automatically sends the photos recorded during the registered alarm events to Wialon, after which the system automatically requests video files of these events.

- **Use time in MDT file for registering video.** If this option is enabled, the time indicated in the MDT file is considered to be the time of registering video files. If this option is disabled, the current server time is taken instead.
- **Live track interval (seconds).** The option allows to set an interval in seconds for transmitting telematics data to the platform.
- **DRV files interval (minutes).** The option allows to set an interval in minutes for transmitting the parameters related to driving (driver_id, vehicle_id, x_gsensor, y_gsensor, z_gsensor, etc.).

Configure the required settings and click **OK**.

4. On the **Commands** tab of the unit properties, create a command for downloading videos. To do this, select the **Download video (download_video)** type. In the **Channel** field, specify **Auto**.

New command

Command name:

Command type: **1** Download video (download_video)

Channel: **2** Auto


Phone number: Use any

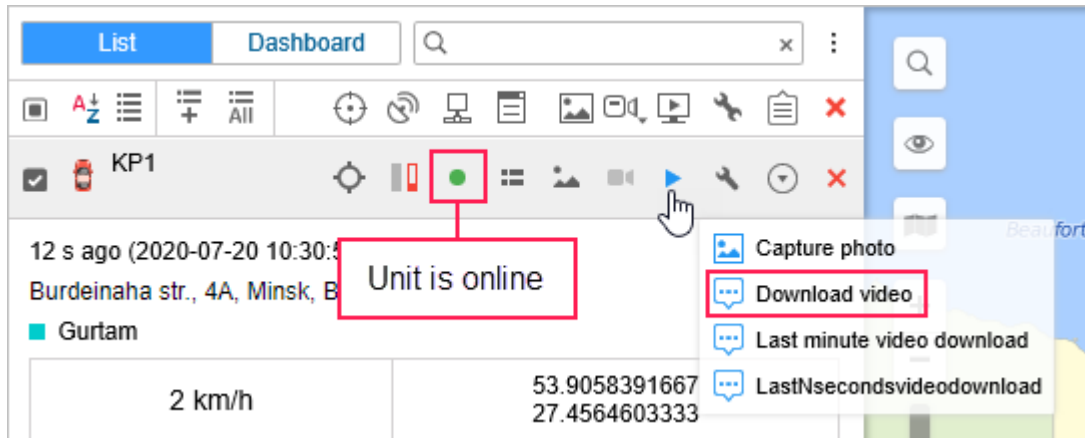
Indicate access rights required for users to execute this command:

- View item and its basic properties
- View detailed item properties
- Manage access to this item
- Delete item
- Rename item
- View custom fields
- Manage custom fields
- View admin fields
- Manage admin fields

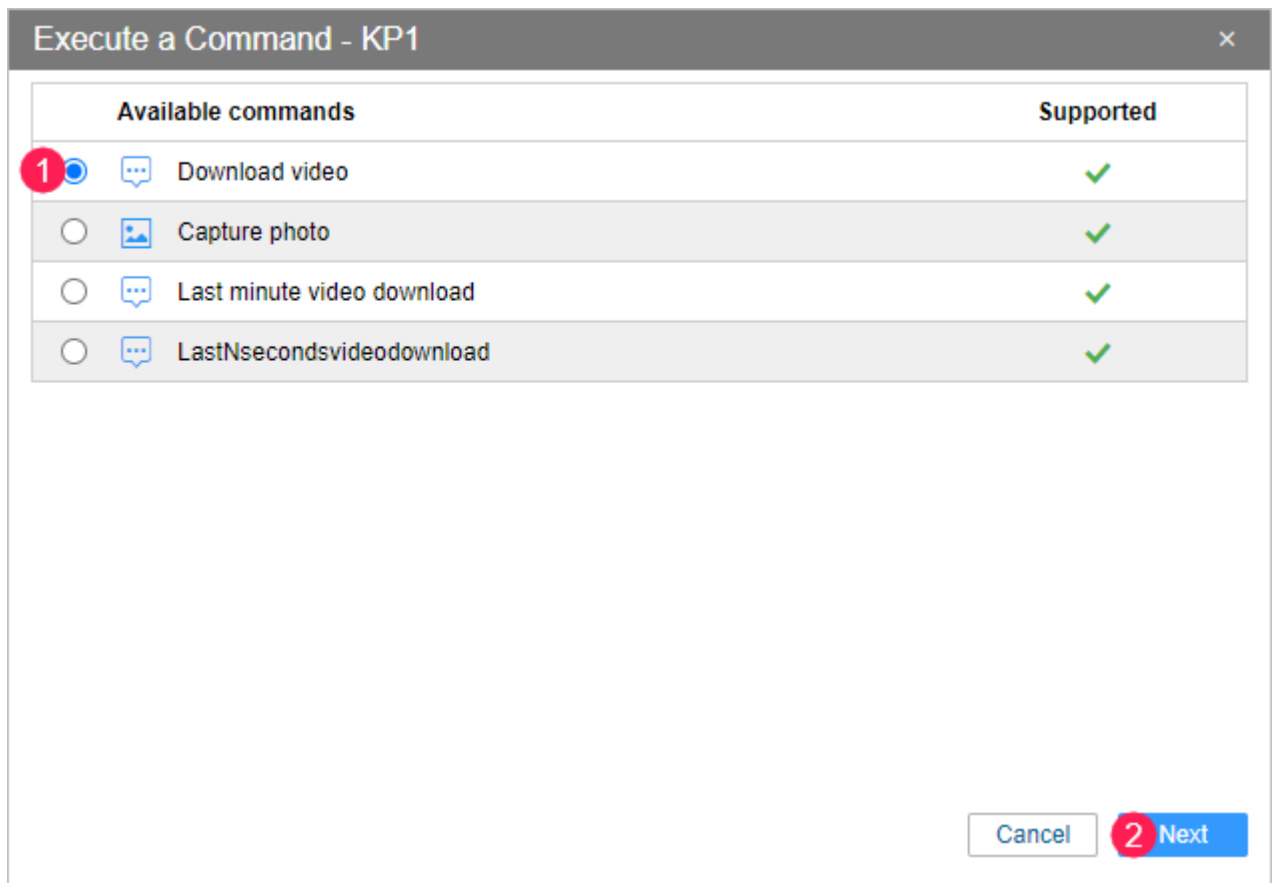
Without parameters

Cancel **3** OK

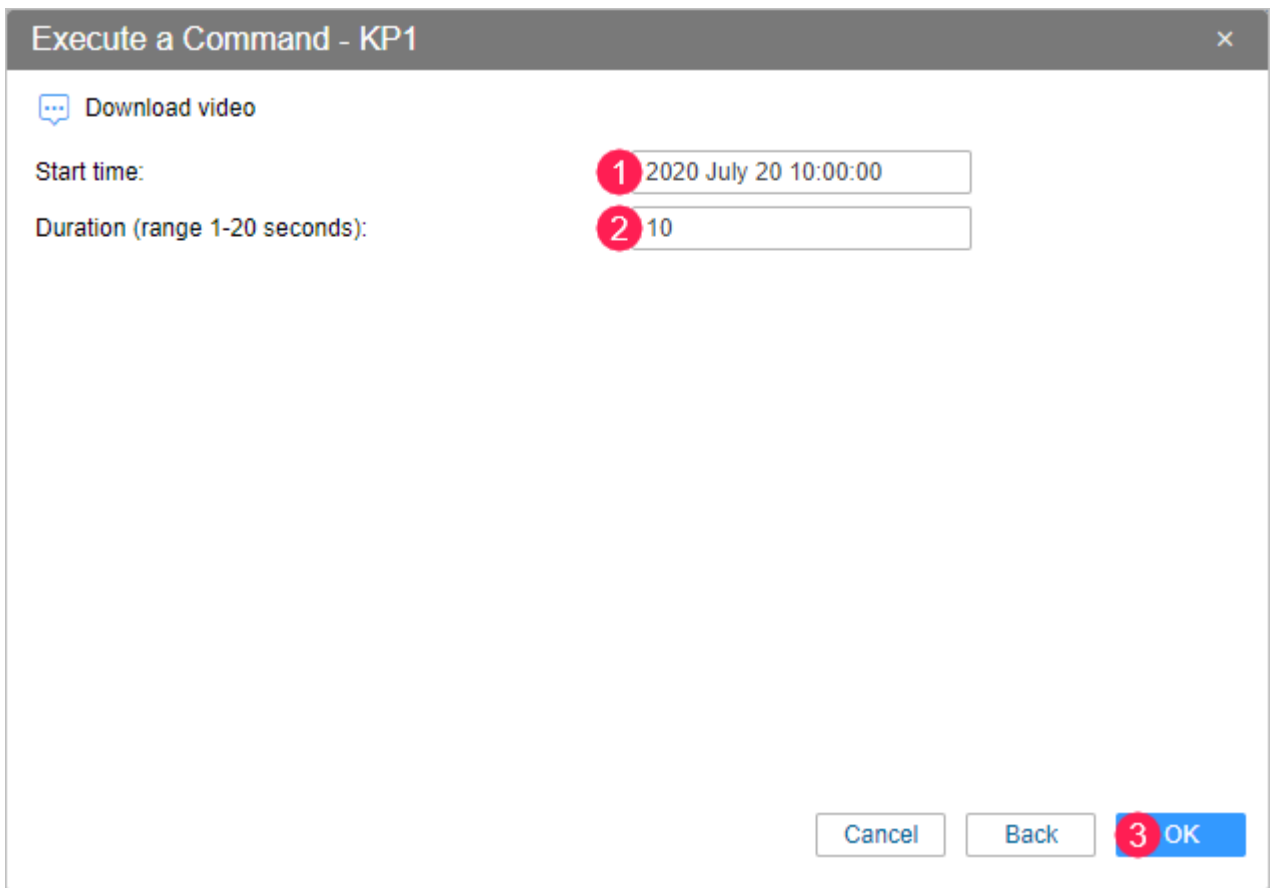
5. Make sure the unit is online (a [green icon](#) is displayed opposite the unit name in the monitoring list) and click on the icon  to send the command.



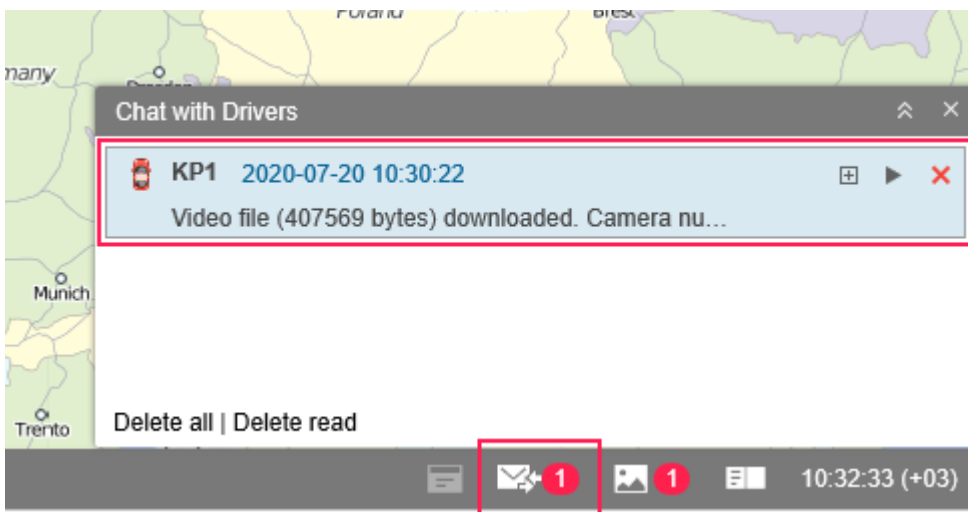
6. In the list of available commands, select the (Download video) command created in step 4 and click **Next**.





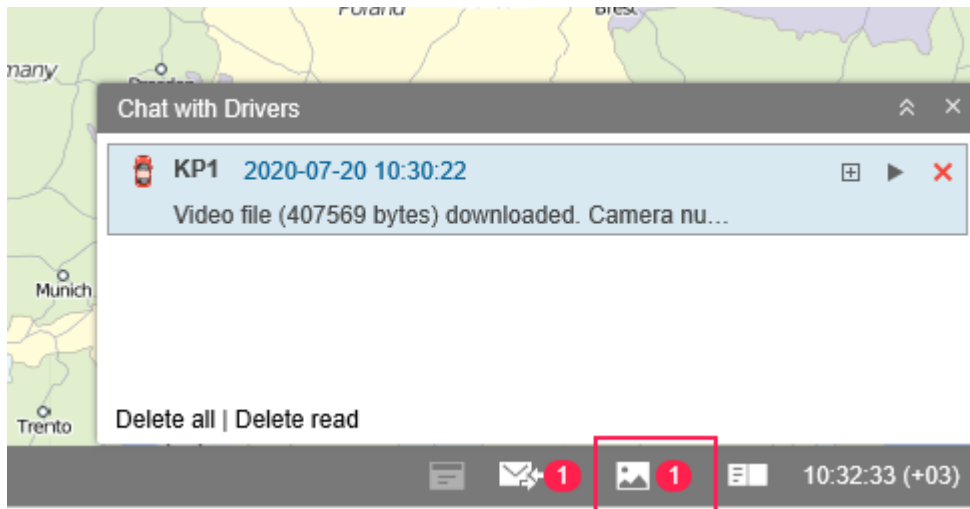
7. Specify the start time of the video and its duration in seconds (up to 20). Click **OK**.



8. You will see a message about the download of the file in the **Chat with drivers** dialog box.



9. After the download is complete, a red indicator is shown next to the icon  in the bottom panel. Click on it to open the received file. You can also click on the icon  next to the unit name in the monitoring list (the [Media](#) option).



Other Available Commands

Download video for the last minute (**download_last_minute_video**)

The command allows to download the video for the last minute.

Download video for the last N seconds (**download_last_n_seconds_video**)

The command allows to download the video for the last N seconds. The number of seconds is specified in the **Interval in seconds (range 1 — 60)** field when creating the command or before sending it.

Query snapshot (**query_photo**)

The command is used to request a photo. It is required to select the channel (camera) number when creating the command or before sending it.

Set the interval of sending data (**set_report_interval**)

The command allows to change the settings below which are related to the frequency of sending data.

- **Live track interval in seconds.** Interval in seconds for transmitting telematics data to the platform.
- **DRV file interval in minutes.** Interval in minutes for transmitting the parameters related to driving (driver_id, vehicle_id, x_gsensor, y_gsensor, z_gsensor, etc.).

Upload configuration (**upload_cfg**)

The command allows to upload a configuration file and send it to the device. It is necessary to select the required configuration file in the **Path to configuration file** field when creating the command or before sending it.