

Voice Calls from IO Events

1 Introduction

1.1 About the Functionality

The tracking device can make a voice call to a defined phone number when one of the specific IO events occurs.

Detailed descriptions of tracking devices and functionalities can be found on our documentation website: doc.ruptela.lt

1.2 Legal Information

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1.3 Compatibility

This functionality is compatible with the following devices with the newest firmware version:

- HCV5 (only the 2G/3G network models)
- LCV5 (only the 2G/3G network models)
- PRO5 (only the 2G/3G network models)
- FM-Tco4 HCV
- FM-Tco4 LCV
- FM-Pro4

1.4 Contact Information

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1.5 Document Changelog

Version	Date	Modification
2.0	2020-07-16	Updated: List of compatible devices. Updated: Manual structure and design.

1.6 Notations

The following notations are used in this document to highlight important information:

Bold text

Used to indicate user interface elements or for emphasis.

Italic text

Used to indicate items that belong to a list and can be selected, also for identification of examples.

Note



Used to highlight important information or special conditions.

Tip



Suggestions on how to proceed.

2 Description

2.1 Rules for Voice Call Functionality

There are some points to consider while using this functionality:

- The phone call can be triggered by several IO parameters:
 - DIN1
 - DIN2
 - DIN3
- The tracking device makes a call to a single phone number that was defined in the configuration.
- The tracking device can make phone calls to international numbers, which start with *00* (e.g. *00xxxxxxxxxxx*), this is used instead of the *+* symbol. In the configurator, these two zeros are added automatically and you do not need to enter them manually. The device can also make phone calls to short numbers (e.g. *711, 2121*).
- If the event that triggers the phone call occurs during the data transmission, that transmission will be stopped and the phone call procedure will begin.
- During the call, there is no possibility to send records. Before making the call, the tracking device will send an SMS to the client's alert number with the latest information.



You can monitor voice call events and see them in reports. Use the **Phone Call** IO parameter.

2.2 Operation Principles

When the IO event is triggered and the calling option is enabled, the tracking device makes a call to the preconfigured phone number:

- If the recipient is busy – the device hangs up.
- If the recipient does not answer – the device hangs up.
- If the call duration exceeds the predefined duration (configurable) – the device hangs up.
- Incoming calls are automatically answered.

- When the 4th generation tracking device is in sleep/deep sleep/custom sleep mode, only high priority events will trigger a voice call.
- When the 5th generation tracking device is in custom sleep mode, only high priority events will trigger a voice call.
- The tracking device will receive a call only when it is in custom sleep mode and the **Modem** is set to *Enabled*.



If a call is triggered via a button switch, then the call can be stopped by triggering the button again. In this case the call duration timer does not apply.

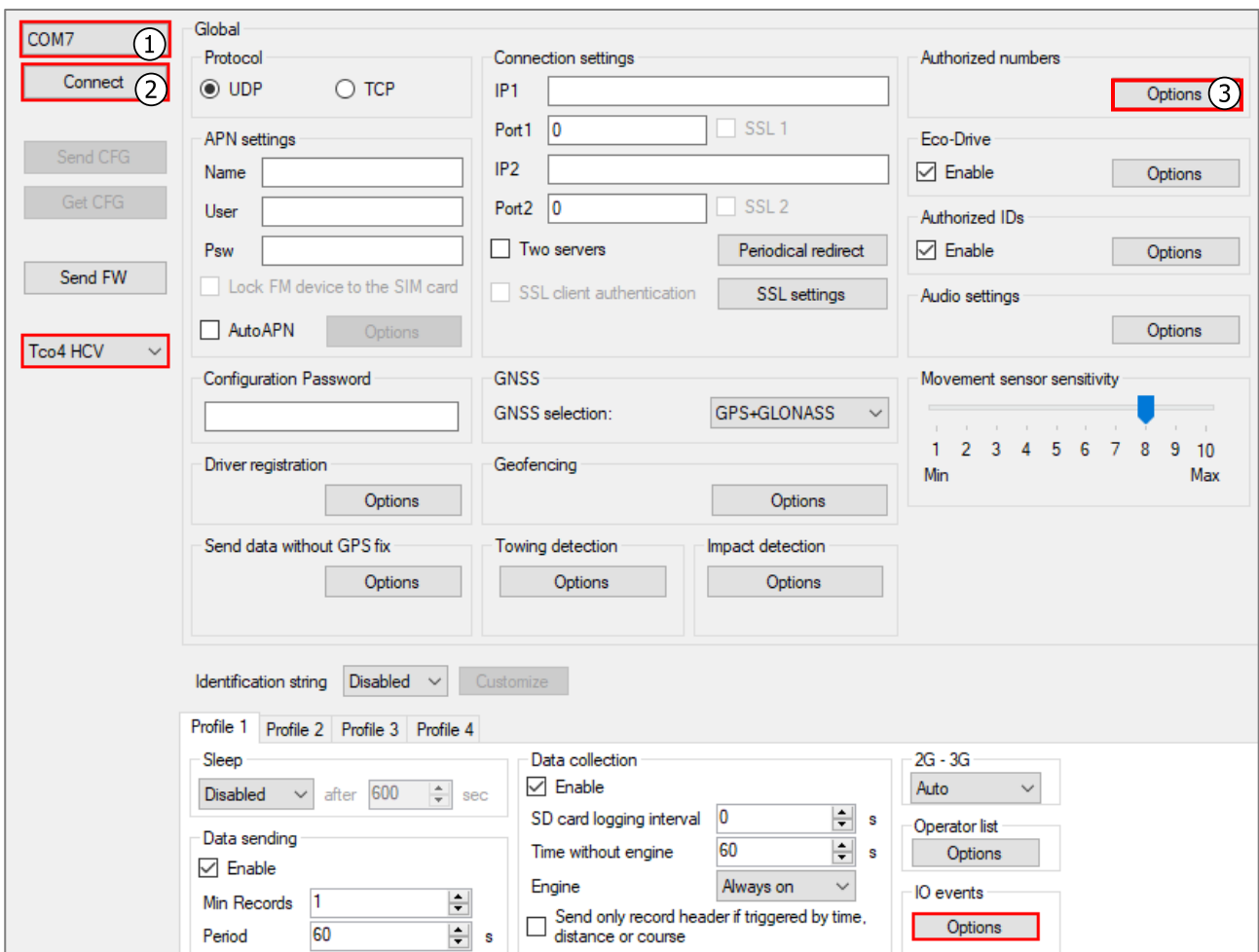
3 Configuration

i This functionality requires the use of the advanced configurator.

3.1 Starting the Configuration

To start the configuration, follow these steps:

1. Open the advanced configurator. Select the COM port to which your device is connected.
2. Click **Connect**.
3. Click the **Options** in the **Authorized numbers** section to open the **Numbers** window.



3.2 Configuring Voice Calls

Follow these step to configure voice calls:

1. Enter the phone number in the **Call number** field. If you need to use a short phone number, then tick the **Short code** checkbox. This will remove *00* from the beginning of the field.
2. Set the **Call duration**. The range is 1-600 seconds. Default value: 300 s.
3. Close the **Numbers** window.



Call duration time counting begins when the tracking device starts dialing.

Numbers

Password

SMS Alert Number

00 -

Call Number

00 - Short code

Call duration, s 300

Valid Numbers

1 00 -

2 00 -

3 00 -

4 00 -

5 00 -

6 00 -

7 00 -

8 00 -

9 00 -

10 00 -

Enable list for voice calls

Enable configuration over SMS

Reject all incoming calls

Use ID in SMS commands

Close

4. Click the **Options** button in the **IO events** section to open the **IO settings** window.
5. Tick the **Send I/O data with v1.1 protocol** checkbox (4th generation devices only)
6. Select an empty parameter slot.

7. Select *DIN1*, *DIN2* or *DIN3*.

8. Tick the **Enable** checkbox.

9. Set the **Event on** to *Hysteresis* and to *On Rising*.

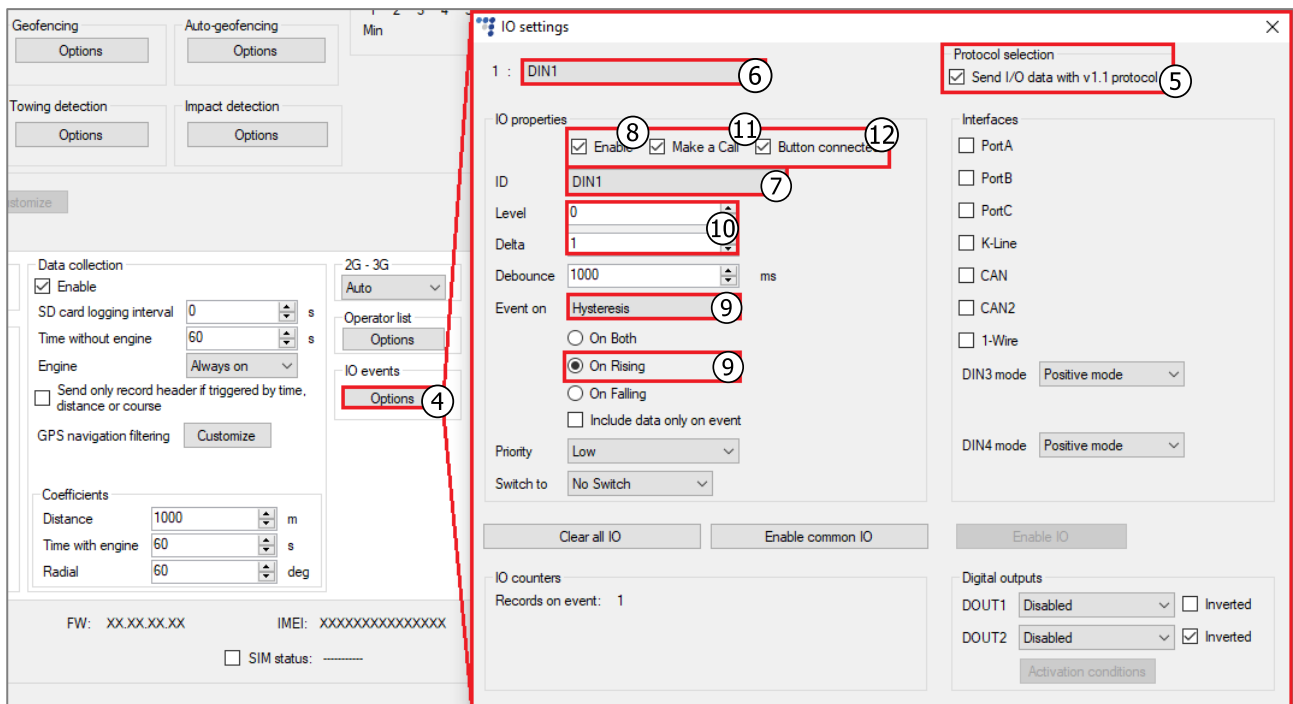
i **Event on** can also be set on *Change*. In this case a button cannot be used.

10. Set the **Level** value to *0* and the **Delta** value to *1*.

11. Tick the **Make a call** checkbox.

12. If a button is used for triggering, tick the **Button connected** checkbox.

13. If you need to monitor voice events and see them in reports, repeat steps 5-9, but select the *Phone Call* parameter instead and set **Event on** to *Change*.



3.3 Finishing the Configuration

To finish the configuration, close the **IO settings** window. Click **Send CFG** to send the configuration to the device.

