

# GPS



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## Summary

**The Global Positioning System (GPS)** is a space-based radionavigation system. This chapter is an overview of the GPS function in RUT955 routers.

## GPS

The GPS window displays your current coordinates and position on the map.



## GPS Settings



field name	value	description
Enable GPS service	yes   no; Default: <b>no</b>	Toggles GPS ON or OFF
Enable GPS data to server	yes   no; Default: <b>no</b>	Enables automatic GPS data transferring to a remote server
Remote host/IP address	host   ip; Default: <b>212.47.99.61</b>	Server IP address or domain name to send the coordinates to
Port	integer [0..65535]; Default: <b>17050</b>	Server port used for data transfer
Protocol	TCP   UDP; Default: <b>TCP</b>	Protocol to be used for data transfer to server

## TAVL Settings



field name	value	description
Send GSM signal	yes   no; Default: <b>no</b>	Includes GSM signal strength information in GPS data package to be sent to server
Send analog input	yes   no; Default: <b>no</b>	Includes analog input state in GPS data package to be sent to server
Send digital input (1)	yes   no; Default: <b>no</b>	Includes digital input #1 state in GPS data package to be sent to server
Send digital input (2)	yes   no; Default: <b>no</b>	Includes digital input #2 state in GPS data package to be sent to server

## GPS Mode



field name	value	description
Min period	integer [1..999999]; Default: <b>5</b>	Period (in seconds) for data collection
Min distance	integer [1..999999]; Default: <b>200</b>	Distance difference (in meters) between last registered and current coordinates to collect data (even if Min period has not passed yet)
Min angle	integer [1..999999]; Default: <b>30</b>	Minimal angle difference between last registered and current coordinates to collect data (even if Min period has not passed yet)
Min saved records	integer [1..32]; Default: <b>20</b>	Minimal amount of coordinates registered to send them to server immediately (even if Send period has not passed yet)
Send period	integer [1..999999]; Default: <b>60</b>	Period for sending collected data to server

The GPS configuration section allows to save several different configurations for GPS data collection. Active configuration is automatically selected when configured conditions are met.

field name	value	description
WAN	Mobile   Wired   WiFi; Default: <b>Mobile</b>	Interface which needs to be used to activate this configuration
Type	Home   Roaming   Both; Default: <b>Home</b>	Mobile connection state needed to activate this configuration
Digital isolated input	Low logic level   High logic level   Both; Default: <b>Low</b>	Input state needed to activate this configuration

## GPS I/O

The **GPS I/O** window provides you with the possibility to configure GPS Input rules. To create a new Input rule select Input type and Trigger, both of which can be found in the GPS Input Configuration section, then click the **Add** button.



field name	value	description
Enable	yes   no; Default: <b>no</b>	Toggles the rule ON or OFF

Input type	Digital   Digital isolated   Analog; Default: <b>Digital</b>	Which type of input the rule will apply to
Trigger	Input open   Input shorted   Both; Default: <b>Input open</b>	Trigger event for your intended configuration
Priority	Low   High   Panic; Default: <b>Low</b>	Different priority settings add different priority flags to event packets, and they can be displayed differently

## GPS Geofencing

**Geofencing** is a feature which can detect whenever a device enters or leaves customized area.



field name	value	description
Enable	yes   no; Default: <b>no</b>	Toggles GPS Geofencing ON or OFF
Longitude (X)	real number [-180..180]; Default: <b>0.000000</b>	Longitude of selected point
Latitude (Y)	real number [-90..90]; Default: <b>0.000000</b>	Latitude of selected point
Radius	integer [1..999999]; Default: <b>200</b>	Radius of selected area
Generate event on	Exit   Enter   Enter/Exit; Default: <b>Exit</b>	Specifies whether event takes place on exiting or entering the specified area or both
Get current coordinates	-	Gets current device coordinates from GPS

## See also

[RUT955 GPS protocols](#)