

GPS



Contents

- [1 Summary](#)
- [2 GPS](#)
- [3 GPS Settings](#)
 - [3.1 TAVL Settings](#)
- [4 GPS Mode](#)
- [5 GPS I/O](#)
- [6 GPS Geofencing](#)
- [7 See also](#)

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

TAVL Settings



field name	value	description
Send GSM signal	yes no; Default: no	Includes GSM signal strength information in GPS data package to be sent to server
Send analog input	yes no; Default: no	Includes analog input state in GPS data package to be sent to server
Send digital input (1)	yes no; Default: no	Includes digital input #1 state in GPS data package to be sent to server
Send digital input (2)	yes no; Default: no	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: 5	Period (in seconds) for data collection
Min distance	integer [1..999999]; Default: 200	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: 30	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: 20	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: 60	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: Mobile	Interface which needs to be used to activate this configuration
Type	Home Roaming Both; Default: Home	Mobile connection state needed to activate this configuration
Digital isolated input	Low logic level High logic level Both; Default: Low	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: no	Toggles the rule ON or OFF

Input type	Digital Digital isolated Analog; Default: Digital	Which type of input the rule will apply to
Trigger	Input open Input shorted Both; Default: Input open	Trigger event for your intended configuration
Priority	Low High Panic; Default: Low	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: no	Toggles GPS Geofencing ON or OFF
Longitude (X)	real number [-180..180]; Default: 0.000000	Longitude of selected point
Latitude (Y)	real number [-90..90]; Default: 0.000000	Latitude of selected point
Radius	integer [1..999999]; Default: 200	Radius of selected area
Generate event on	Exit Enter Enter/Exit; Default: Exit	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](#)