RUTX11 Cloud Solutions

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The information in this page is updated in accordance with firmware version **RUTX R 00.07.06.10**.

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Summary

The **Cloud Solutions** section is used to configure how the device will connect to certain cloud management systems.

This chapter of the user manual provides an overview of the Cloud Solutions page for RUTX11 devices.

Note: Each Cloud Solutions service, except RMS, is additional software that can be installed from the **System** → **Package Manager** page.

If you're having trouble finding this page or some of the parameters described here on your device's WebUI, you should **turn on "Advanced WebUI" mode**. You can do that by clicking the "Advanced" button, located at the top of the WebUI.



RMS

RMS (**Remote Management System**) is a cloud system designed by Teltonika and intended for remote monitoring and management of Teltonika-Networks products.

In order to add a device(s) to RMS, get yourself acquainted by watching <u>this instructional video</u> and register an account by <u>clicking here</u>. **Each unique device receives a free month-long RMS license** when added to RMS for the first time.

The figure below is a screenshot of the RMS section taken from a device which has been connected to RMS:



Field	Value	Description
Connection type	Enabled Standby Disabled; default: Enabled	Defines how the device will connect to RMS: • Enabled - the device attempts to connect to RMS every 2-5 minutes (every 2 minutes the first hour; then every 5 minutes). If it cannot connect for 14 days, it will enter Standby mode. • Standby - the device attempts to connect to RMS every 6 hours. • Disabled - RMS functionality is disabled.
Hostname	host ip; default: rms.teltonika.lt	Address of the RMS server. If you're using regular RMS, just leave the default address (<i>rms.teltonika.lt</i>).
Port	integer [065535]; default: 15009	Port number for connecting to RMS. If you're using regular RMS, just leave the default port (15009).

The RMS server waits for incoming connections. Since the device attempts to connect at a fixed interval, it may not connect instantly after you add it to RMS. While it is disconnected, you can check how much time is left until the next connection attempt in the Status section:



To speed up the process by initiating an immediate connection attempt, click the **Connect** button.



If a failure or unknown status occurs, there is an alternative to try to reconnect again, click the **Reconnect** button.



When the device is already connected an **Unregister** button becomes visible. Use it to terminate the device's connection to RMS.



For more information on Teltonika Networks Remote Management System (RMS) refer to the **RMS**Manual or **RMS** FAQ pages.

Azure IoT Hub

Azure IoT Hub is Microsoft's ever-expanding set of cloud services to help your organization meet your business challenges. Azure IoT Hub is compatible with Teltonika Networks devices.

The figure and table below provides explanations for Azure IoT Hub configuration parameters when



Field	Value	Description
Enable Azure IoT Hub monitoring	off on; default: off	Turns the Azure IoT Hub service on or off.
Connection string	string; default: none	Unique connection string a.k.a. server address provided by the Azure Iot Hub service.
Message Type	GSM values MQTT messages; default: MQTT messages	Values that are to be sent to the Azure server.
Message sending interval (sec.)	integer; default: 300	Device data sending frequency in seconds. Minimum value is 10 s.
Mobile Interface	mobile interface; default: mobs1a1	Interface name for which IP address and sent/received bytes should be selected.
GSM Values	IMSI IP Address RSRP ICCID Bytes received Cell ID RSCP PIN state Manufacturer Bytes sent RSRQ Revision number Serial number ECIO SINR Data carrier type Network link state Operator PIN count Signal level Model Connection state Temperature IMEI SIM card state Operator number; default: none	that to be sent to the Azure IoT Hub

The figure and table below provides explanations for Azure IoT Hub configuration parameters when selected 'Message Type' is $MQTT\ messages$.



Field	Value	Description
Enable Azure IoT Hub monitoring	off on; default: off	Turns the Azure IoT Hub service on or off.
Connection string	string; default: none	Unique connection string a.k.a. server address provided by the Azure Iot Hub service.
Message Type	GSM values MQTT messages; default: MQTT messages	Values that are to be sent to the Azure server.
MQTT Host	ip host; default: none	MQTT broker's IP address or hostname.
MQTT Port	integer [065535]; default: none	MQTT broker's IP port number.
Topic	string; default: none	MQTT topic to be used for publishing the data.
Username	string; default: none	Username used for authentication to the MQTT broker.
Require password	check box; default: none	Enables password field.
Password	string; default: none	Password used for authentication to the MQTT broker.

Cloud of Things

The **Cloud of Things** is an IoT cloud platform which provides the possibility to remotely monitor, manage and control your connected devices and machines – plug-and-play, without extensive installation.



Field	Value	Description
Enable	off on; default: off	Turns the Cloud of Things service on or off.
Server Address	ip host; default: none	Cloud of Things server IP address or hostname.
Interval	integer; default: none	Push connection interval in minutes.
Reset Auth	- (interactive button)	Resets authentication data so that device could be re- registered on the Cloud of Things Device Management platform.

Cumulocity

Cumulocity IoT is a cloud-based, real-time IoT management platform that's also compatible with Teltonika-Networks devices.

The figure and table below provide explanations for Cumulocity configuration parameters available on the device. For a detailed configuration guide, <u>click here</u>.



Field	Value	Description
Enable	off on; default: off	Turns the Cumulocity service on or off.
Use SSL/TLS	off on; default: off	Turn SSL/TLS protocol support on or off.
Server Address	host; default: none	Hostname of your Cumulocity server. It should match the Environment name from the Cumulocity registration. For example: teltonika-networks.eu-latest.cumulocity.com
Interval	integer; default: none	Connection push interval in minutes. This field defines how often the device will try to connect to the Cumulocity server.
Reset Auth	- (interactive button)	Resets authentication for this device. If you click this, you'll have to authorize this from Cumulocity dashboard before it can successfully connect to the server.

ThingWorx



Field	Value	Description
Enable	off on; default: off	Turns the ThingWorx service on or off.
Server Address	ip host; default: none	Thingworx server IP address or hostname.
Server Port	integer [065535]; default: none	Thingworx server's port number.
Thing Name	string; default: none	Thing name defined in ThingWorx CP.

Application Key string; default: **none**Mobile Interface network interface; default: **mob1s1a1**

Application key generated in ThingWorx CP. Interface whose GSM parameters will be sent to the ThingWorx server for monitoring.

Greengrass



Field Value Description

Enable off | on; default: **off** Turns the AWS Greengrass service on or off.

Config file .tar.gz file; default: **none** Core-specific config file.