

RUT301 Cloud Solutions

[Main Page](#) > [RUT Routers](#) > [RUT301](#) > [RUT301 Manual](#) > [RUT301 WebUI](#) > [RUT301 Services section](#) > **RUT301 Cloud Solutions**

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Contents

- [1 Summary](#)
- [2 RMS](#)
- [3 Azure IoT Hub](#)
 - [3.1 Modify Azure IoT Hub](#)
- [4 Cloud of Things](#)
- [5 Cumulocity](#)
- [6 ThingWorx](#)

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 RUT301 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.


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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 [this instructional video](#) and register an account by [clicking here](#). **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: <ul style="list-style-type: none">• 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 [0..65535]; default: 15009	Port number for connecting to RMS. If you're using regular RMS, just leave the default port (<i>15009</i>).
Authentication code	string; default: none	Authentication code provided by RMS after adding the device.

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 a **Reset** 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.

By default, the Azure IoT list is empty. To add a new connection, enter a custom name and click the 'Add' button.



Modify Azure IoT Hub



Field	Value	Description
Enable	off on; default: off	Enable Azure IoT service.
Name	string; default: none	Connection name.
Enable Direct Methods	off on ; default: off	Enable Direct Method feature set.
Device Model ID	string; default: dtmi:Teltonika:genericDevice;1	Model ID of the Digital Twins Definition Language.
Connection type	Shared Access Signature (SAS) key Device Provisioning Service (DPS) ; default: Shared Access Signature (SAS) key	Connection type to an existing IoT Hub.
Connection String	string; default: none	Connection string based on primary key used in API calls which allows device to communicate with IoT Hub.
ID Scope	string; default: none	Unique identifier that is assigned to an Azure IoT Hub during its creation and is used to uniquely identify the specific provisioning service the device will register through.
Registration ID	string; default: none	The registration ID is used to uniquely identify a device registration with the Device Provisioning Service.
Global Device Endpoint	string; default: global.azure-devices-provisioning.net	Destination for messages sent by IoT devices to the Azure IoT Hub.
Attestation mechanism	X.509 certificates Symmetric Key ; default: X.509 certificates	Method used to confirm a device's identity in Device Provisioning Service.
X.509 Certificate	-interactive button; default:	Upload the "leaf" certificate file.
X.509 Private Key	-interactive button; default:	Upload the "leaf" key file.
Symmetric Key	string; default: none	The the derived device key from the DPS Primary Key.

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, [click here](#).



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 <i>Environment name</i> from the Cumulocity registration. For example: <i>teltonika-networks.eu-latest.cumulocity.com</i>
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 [0..65535]; default: none	Thingworx server's port number.
Thing Name	string; default: none	Thing name defined in ThingWorx CP.

Application Key string; default: **none**

Application key generated in ThingWorx CP.