

Setting up RG1xx's Wi-Fi Profile through AVsystem

Sentrius RG1xx Series

Version 2.0



Revision History

Version	Date	Notes	Contributors	Approver
1.0	11 August 2023	Initial Release	Seokwoo Yoon	Senthooran Ragavan
2.0	8 May 2025	Ezurio rebranding	Dave Drogowski	Dave Drogowski



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1 Overview

The RG1xx gateways can be managed remotely from Auto Configuration Server (ACS) using TR-069 protocol. One can arrange many tasks in ACS, such as updating gateway configuration, updating firmware and downloading logs. This document will provide an example of creating Wi-Fi profile for the RG1xx from AVSystem.

This document assumes that you already know how to access the RG1xx web interface through Wi-Fi or Ethernet. If you are not familiar with it, please refer to the RG1xx User Guide located in the RG1xx product page.

This document also assumes that you already have your own setup for ACS server. We will use AVsystem in this document, but the same concept can be applied to any other ACS servers that support TR-069.

Note: The remote management feature was introduced in software version v93.8.4.29 (GA4).

2 Configuring AVSystem in RG1xx UI

1. Log into RG1xx web UI and make sure that RG1xx has internet connection by confirming that Wi-Fi or Ethernet is set up. If not, configure Wi-Fi connection by scanning or plug in Ethernet cable into RJ45 connector on RG1xx.

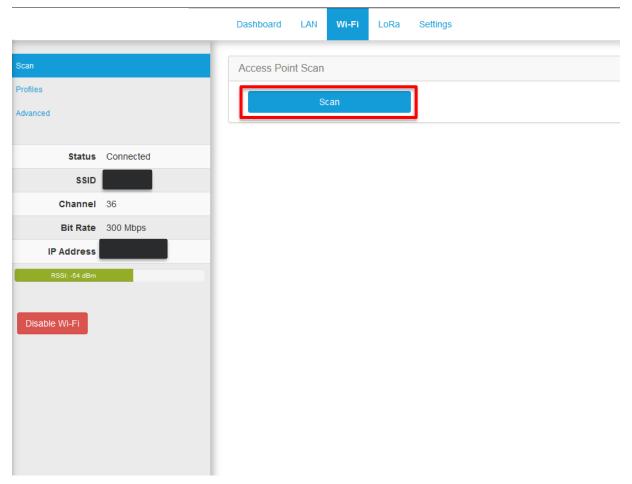


Figure 1: Wi-Fi page on RG1xx UI

2. Under Settings > Remote Management Service, fill in URL, Username and password of yours, and then hit Update. After that, you will be asked to Restart Now.



Note: Periodic Interval is how often gateway checks in ACS server checks to see if there are any tasks to be completed. We will set Periodic Interval to 300 seconds but you can adjust this value as you like. Increasing its value means that ACS will wait more time for next check-in in order to accomplish scheduled tasks on RG1xx.

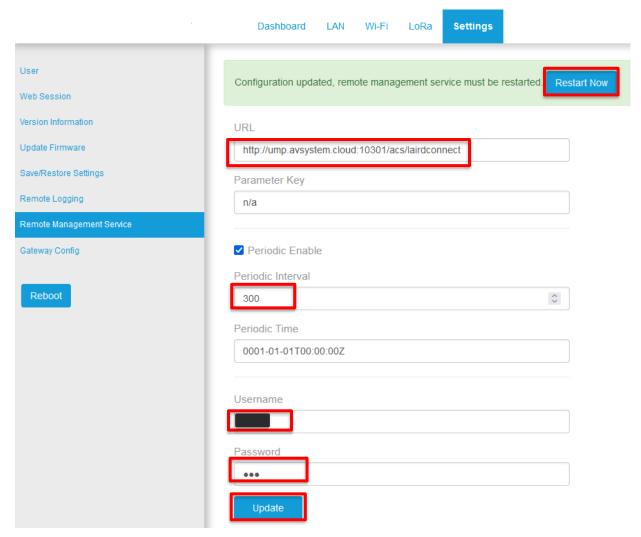


Figure 2: Settings > Remote Management Service



Make a note of gateway EUI from LoRa tab. We will use this value when registering gateway on AVSystem.

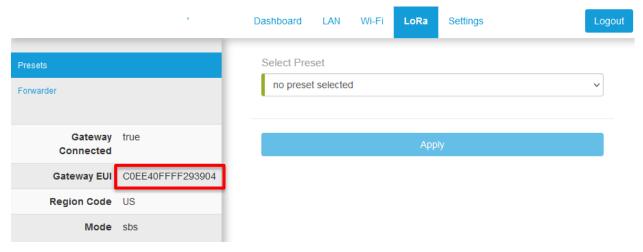


Figure 3: Gateway EUI on LoRa tab

3 Registering RG1xx on AVSystem

1. We will create an excel file that contain device information and import it to AVSystem. Open a new excel file and enter **Identity** in cell A1 and **C0EE40-RG1XX last 6 digit of gateway EUI >** and save it as **device.csv**.

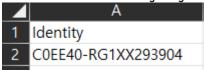


Figure 4: Excel file that has gateway information.

2. Go to https://ump.avsystem.cloud/auth/login?url=%2F and log in with your username and password.

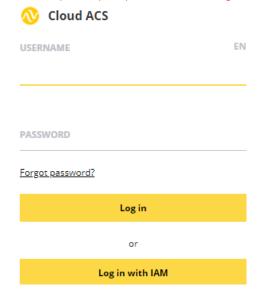


Figure 5: AVSystem login page



On the top menu, go to Device groups and click Add. Administration ▼ **Devices inventory** Device groups Historical analysis Monitoring & Reporting ▼ Device actions ▼ Groups management -Figure 6: Device group 4. Give it a **Name** and click **Add** to create a group. Leave the rest of the fields as they are. $+ \times$ Add group Full name root.mt.lairdconnect.test Name * test Priority Inherited Priority value: undefined Description Enable session monitoring Cancel Add

Figure 7: Add group

5. Under Device actions, Import device from CSV.

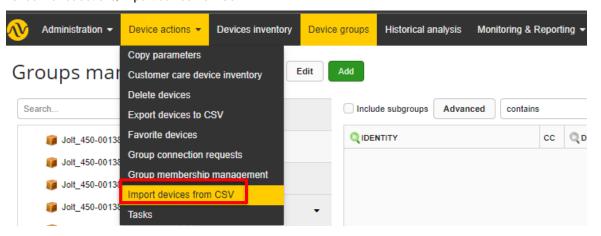


Figure 8: Menu for "Import devices from CSV"



6. Deselect Only Verify box. Change Select Import Mode to New and Existing Devices. Select Identity from Simple list. Click Add Devices to Groups and choose the group you created in pop-up window.

Import devices from CSV

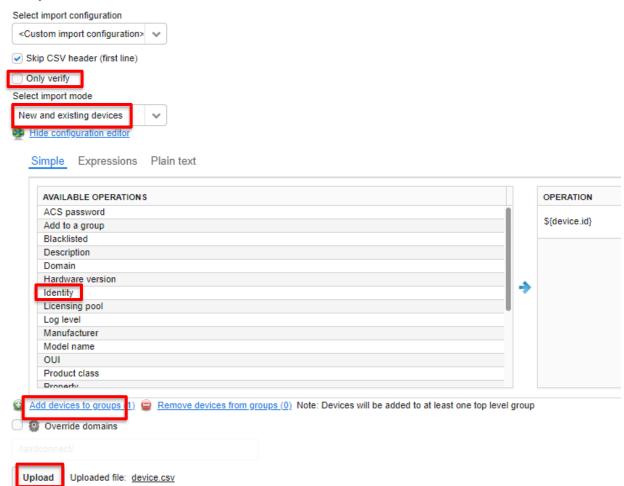


Figure 9: Configuration for importing devices

Select groups to add (1)

Perform import



Figure 10: pop-up from "Add Devices to Group"



7. Click **Upload** in Figure 9 and choose the .csv file you created in step 1. Then, click **Perform import**. The Import log window at the bottom will show the status of the import process.

Import log

Import performed successfully on 1 devices

Figure 11: import success message

8. Go to *Device groups* > the group you created ('test'in our example) > *Devices*. Click the device on the right column. Check the gateway status as **Online** on the next page.

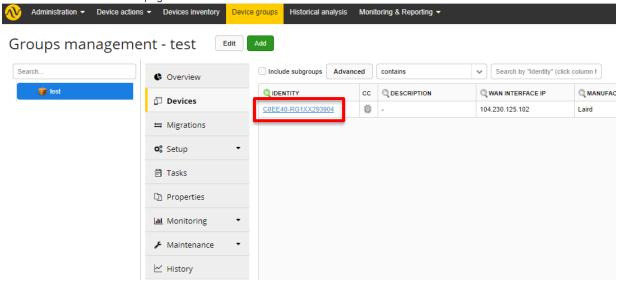


Figure 12: Device under device group



Figure 13: Device page

Note: If the gateway status is offline, give it some time as you set for the period interval in RG1xx UI. Also, the next check-in time can be found in **Info** (Figure 13).



4 Provision RG1xx's Wi-Fi profile remotely through AVSystem

We will create multiple tasks in three different times. We do this because the order is important, and it's needed that one task is completed before starting another. In this example, we will create a Wi-Fi profile that has WPA2_PSK security. If you use different security type, adjust parameters accordingly as shown in the RG1xx User Guide.

 [Task #1] In the Data Model, find InternetGatewayDevice.Laird.SavedProfileSettings.AddProfile and click (empty) to write a value for write value on it.

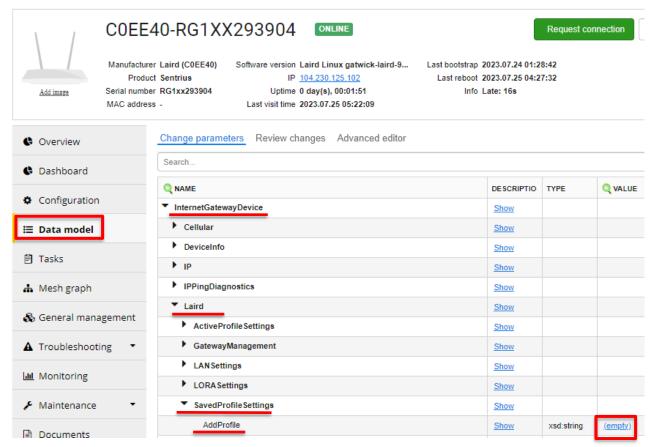


Figure 14: InternetGatewayDevice.Laird.SavedProfileSettings.



Figure 15: write value for Wi-Fi profile



2. In RG1xx UI, go to Wi-Fi > Profiles and the newly entered profile is created.

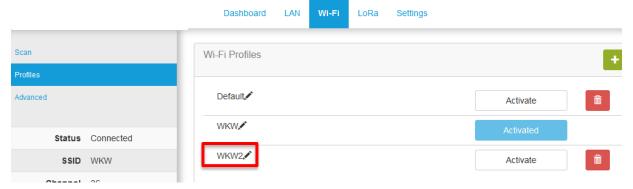


Figure 16: Wi-Fi profile created remotely

- 3. [Task #2] Update the following parameters for the newly added profile, and wait until the next check-in.
 - InternetGatewayDevice.Laird.SavedProfileSettings.ProfileName = < the profile created in task #1>
 - InternetGatewayDevice.Laird.SavedProfileSettings.SSID = <SSID of your network>
 - InternetGatewayDevice.Laird.SavedProfileSettings.WEPType = < your security type > (wpa2-psk in this example)

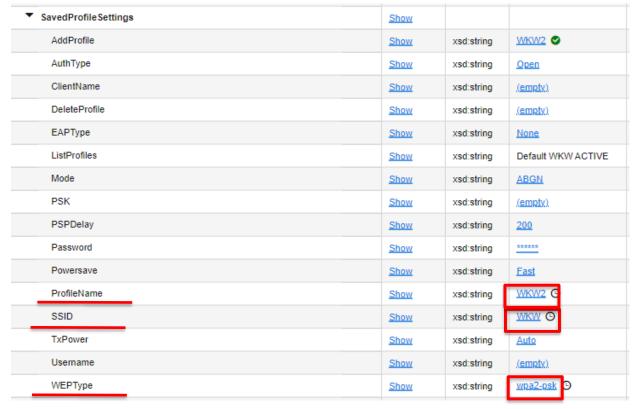


Figure 17: Wi-Fi parameters under SavedProfileSettings



4. In RG1xx UI, confirm that the configuration of the newly created Wi-Fi profile is set as expected.

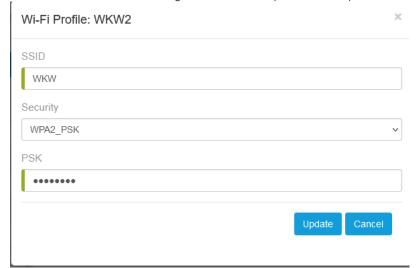


Figure 18: configuration of the newly added Wi-Fi profile

Note: It looks that PSK key was set and hidden in the above picture, but the pre-shared key is actually not set yet at this stage.

- 5. [Task #3] Activate the profile with PSK set.
 - InternetGatewayDevice.Laird.ActiveProfileSettings.PSK
 - InternetGatewayDevice.Laird.ActiveProfileSettings.ProfileName

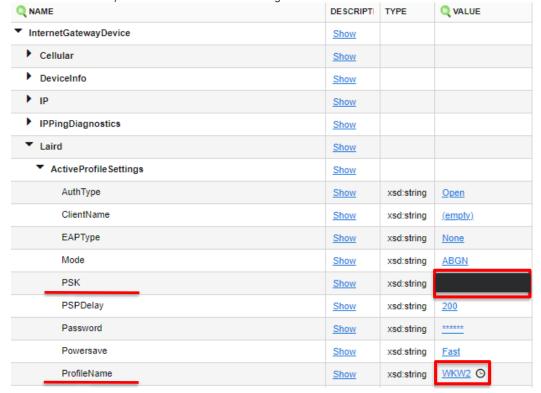


Figure 19: Parameters under ActiveProfileSettings

6. In RG1xx UI, confirm that your profile is activated and connected to your network.



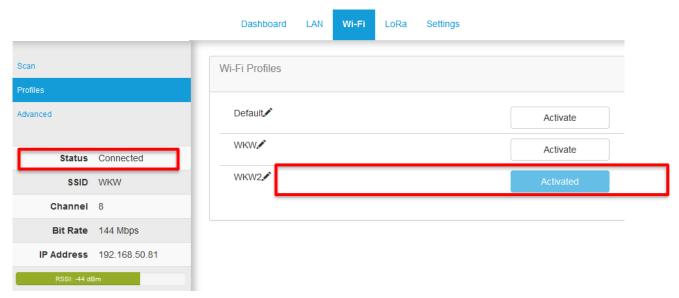


Figure 20: The newly added profile is activated



5 Additional Information

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