Technical Note

VLAP Access point setup procedure for RUTX10

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Table of Contents

1 Purpose

This document describes how to set up the RUTEX10 WiFi access point of the VM-110 VLAP (rev. 3). The VisionLink communication channel between the VM-110 RU (RU) and VLAP consists of two radio links called G-link and C-link. The G-link is the high capacity/limited range part, while the C-link is the limited capacity/long range link. The C-link is automatically configured when it is paired to a VM-110 BU (BU), but the access point needs to be configured with the correct Wifi settings.

2 Preparation.

Rev. 3 of the VM-110 VLAP uses an RUTX10 access point from Teltonika.

2.1 Factory default settings

SSID: RUT_****_2G or RUT_****_5G

WiFi Password: located on the device information label/engraving

IP address: 192.168.1.1

Username: admin

Password: located on the device information label/engraving

Please ensure that your computer and the RUTX10 are on the same logical subnet (192.168.**1**.1). Give your computer a different static IP-address on the same subnet.

Now you can connect and logon either using wireless or wired-LAN connection to the RUTX10.

2.2 Default settings on a configured VLAP from Vision Remote

IP address: 192.168.32.11

Username: admin

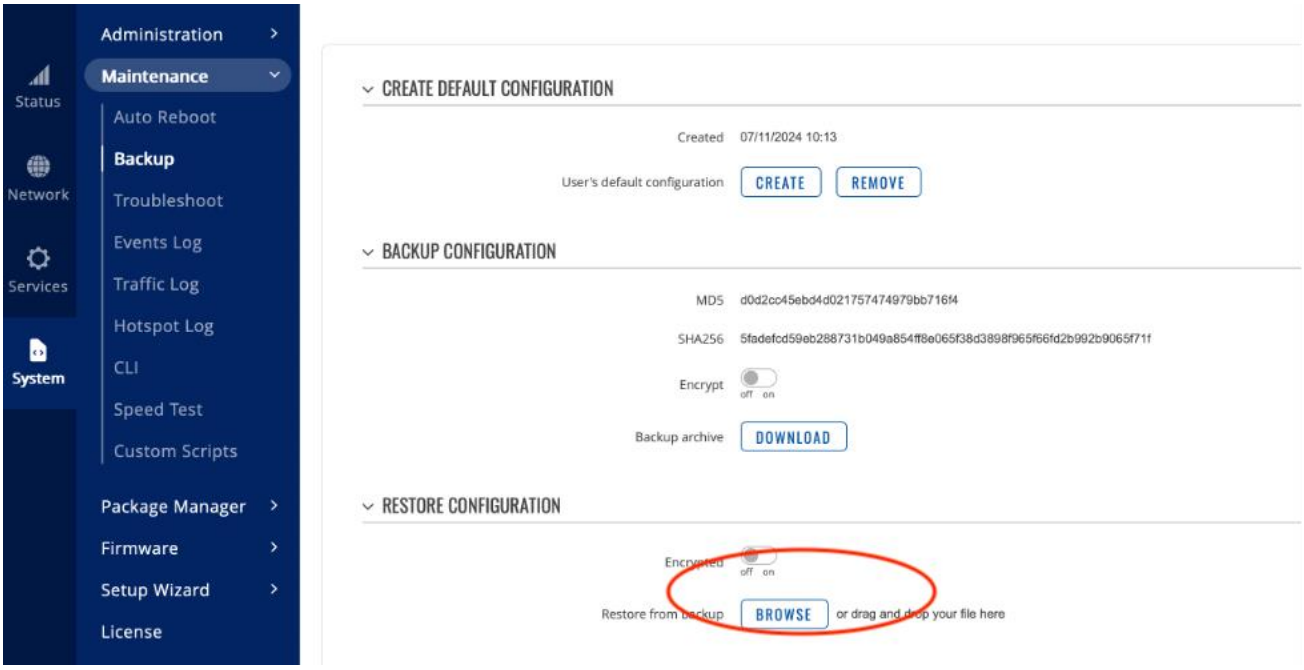
Password: Vr134679258

SSID: VRGL5XXX

Wifi password: VR134679258

Please ensure that your computer and the RUTX10 are on the same logical subnet (192.168.**32**.11). Give your computer a different static IP-address on the same subnet.

The default Vision Remote settings can be loaded into the access point via the RUTX10 WebUI. Go to Serviceses->Maintenance->Backup and drag and drop the config file into the red circle as shown in the picture below. The file is located at: Documentation/Software/Teltonika/RUTX10_VR_config_yyyy-mm-dd.tar.gz



2.3 Recommended/Required instruments, tools and documents.

Ref.	Description
1.	VM-110 System to be programmed (VLAP)
2.	PC with network interface for connection to VLAP
3.	Teltonika RUTX10 User manual.

2.4 Factory reset

The RUTX10 has a reset button close to the power supply connection. Pressing this for at least 12 seconds (but max 20 seconds) will result in a factory reset and reboot.

2.5 VLAP – IP addresses

The BU supports up to 3 different VLAP units. These units must all have different static IP-addresses and are to be selected from table below:

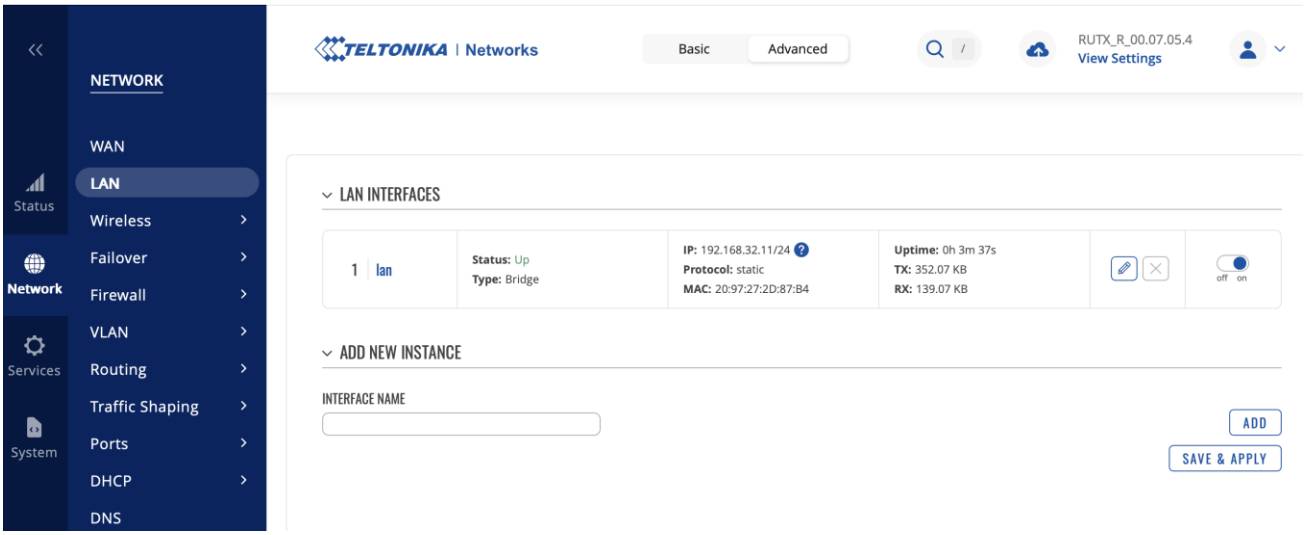
VLAP	IP-address
1	192.168.32.11
2	192.168.32.12
3	192.168.32.13

3 Setup

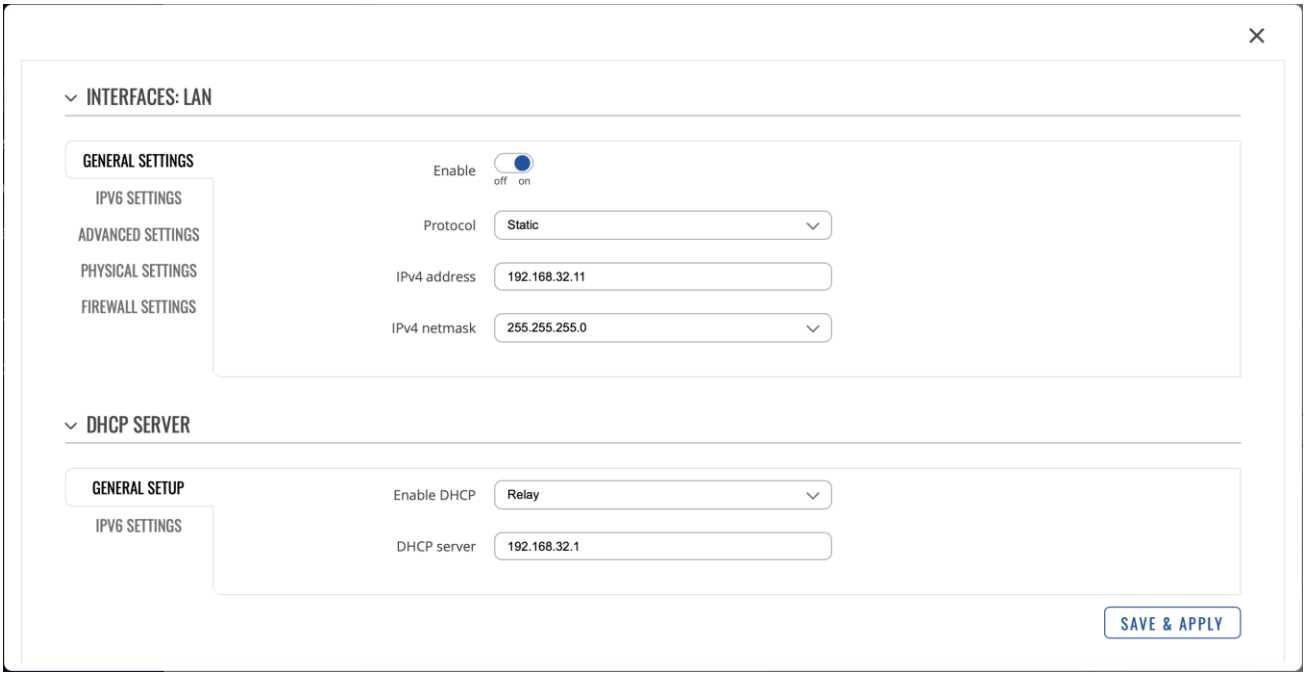
A VLAP delivered from Vision Remote is already programmed with default settings but customer is required in most cases to modify some settings to suit their system. This can be for instance if there are several systems on one location. Having several BU`s with identical configured VLAP`s can result in RU not connecting to the correct VLAP. The example settings in the following chapters represents the default settings.

3.1 Required settings.

The access point shall be set up to operate as an access point with static IP. Follow the nest steps to set the AP up with VR default setting. Go to "Network -> LAN"



Press the button under LAN INTERFACES.



Change the fields so that they look like above.

3.1.1 Static IP-address

The access point must be given a static IP address according to table below

IP address assignment: Static

VLAP	IP-address
1	192.168.32.11
2	192.168.32.12
3	192.168.32.13

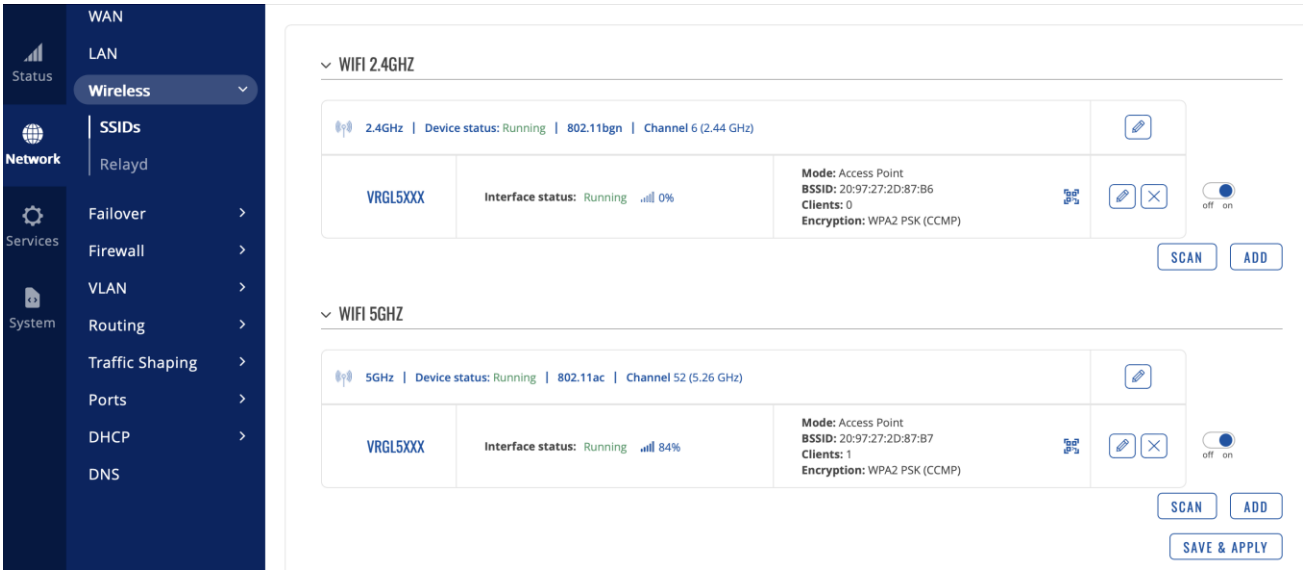
IPv4 netmask: 255.255.255.0

DHCP server: 192.168.32.1

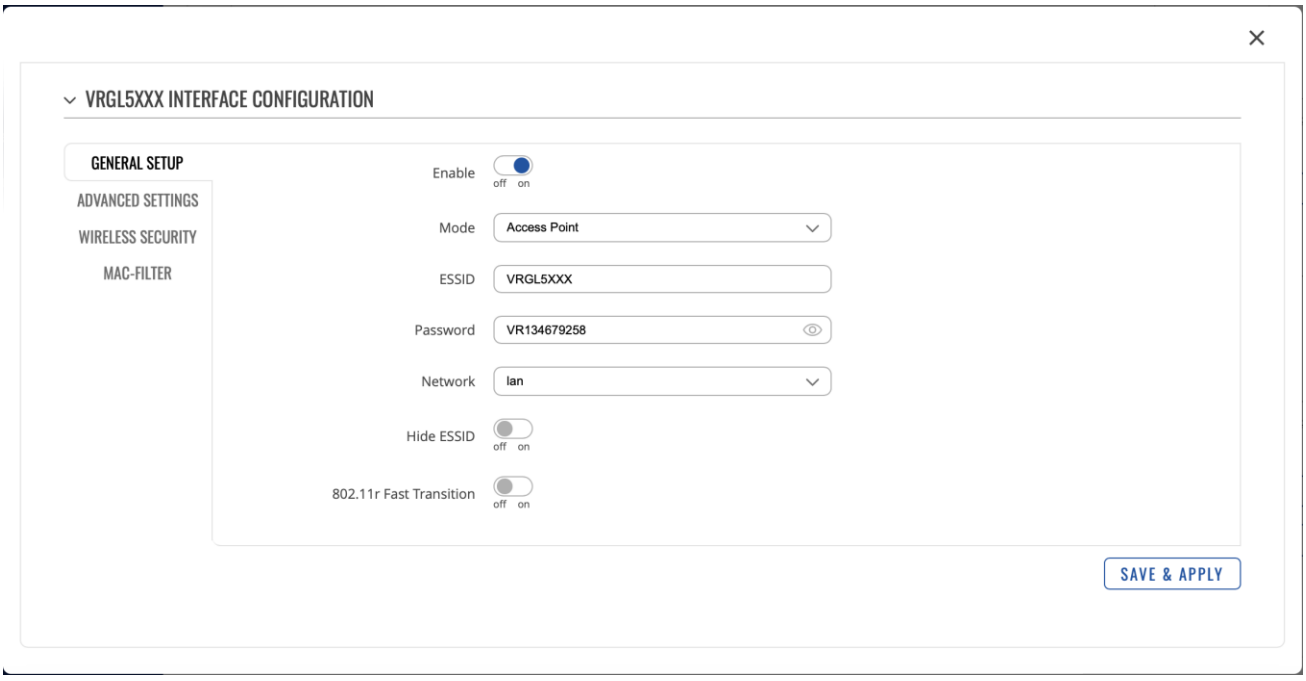
3.1.2 SSID

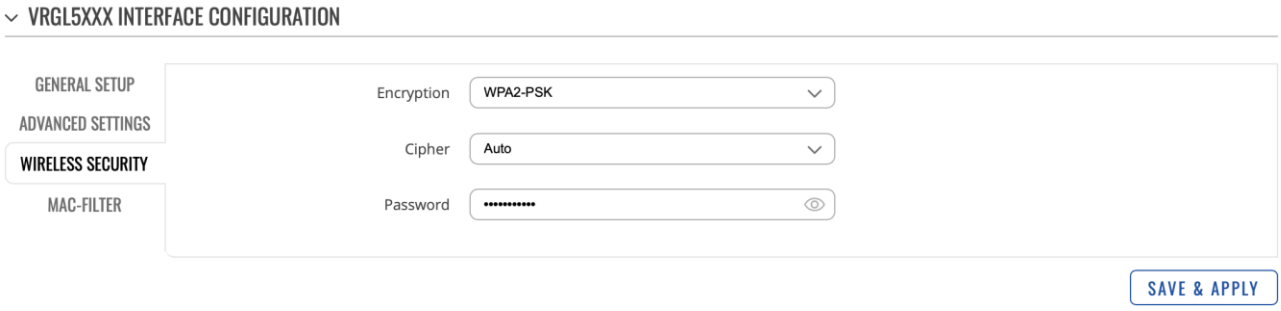
The SSID is basically the name of the WiFi. The naming of SSID is up to the customer to decide, but we recommend choosing a SSID that clearly identifies which BU the VLAP is connected to. For instance, VRGL5028. Where the four first letters stand for **V**ision **R**emote **G**-**L**ink and last digits is the HW-ID of the BU for that system the VLAP is connected to.

Settings stored under: "Network -> Wireless"



Press the  button under *WIFI 2.4GZ* first and then the same for *WIFI 5GHZ*.





Sett the settings in the two boxes above for both wireless networks.

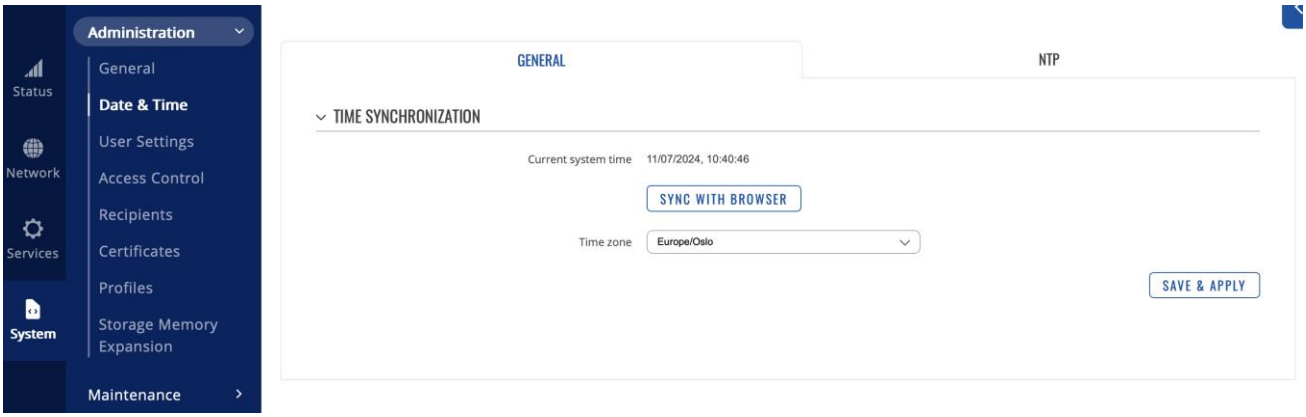
The SSID must also be configurated into the application file of the BU. This is done using the webinterface of the BU. Log into BU using test port and connect to 192.168.32.1. Under settings the SSID can be entered. This is to ensure that the RU receives the SSID during the pairing procedure.

Set desired password/passphrase. Please follow your own company's recommend password strategy. If no strategy is in place, we recommend using a password containing letters, numbers and special characters.

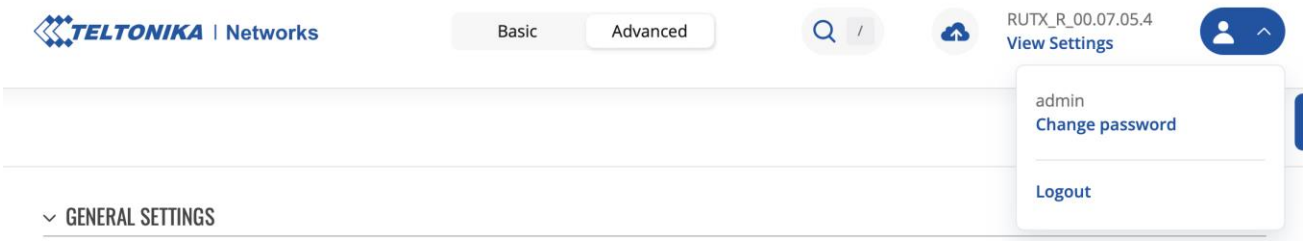
The password must also be configurated into the application file of the BU. This is done using the webinterface of the BU. Log into BU using test port and connect to 192.168.32.1. Under settings the Password can be entered. This is to ensure that the RU receives the password during the pairing procedure.

3.2 Optional settings

We recommend that the time, date, year and time zone settings are updated. Then any error messages will have a timestamp matching the real time. Go to "System -> Administration -> Date & Time", click the SYNC WITH BROWSER button.



We also recommend that the default access point login username and password are updated. Go to the avatar icon on the top right corner and select Change password.

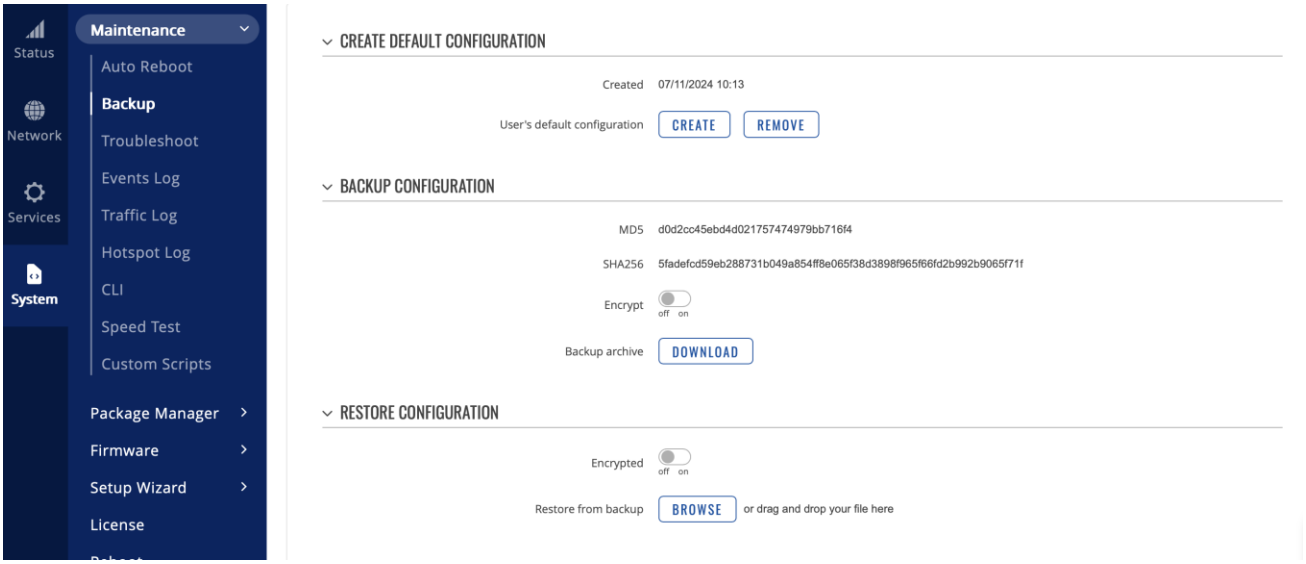


3.3 Activating settings

Before any settings are activated the settings need to be stored and the access point rebooted. Please follow instructions on-screen.

3.4 Import and Export of settings

We highly recommend that the setup of VLAP`s are stored for future reference. Go to "System -> Maintenance -> Backup". Click CREATE under the CREATE DEFAULT CONFIGURATION section. Then download the configuration file to a secure place by clicking DOWNLOAD in the BACKUO CONFIGURATION section.



4 Testing

As a final test check that it`s possible to connect to the WiFi. It is also recommended to perform a range test. Typical range will be up to 30-50m