



Basic/ Intermediate/ Expert

Security Hardening Guideline & Security Expectations

For VDIR20491 WiFi6 Access Point PoE with RJ45

09/2025



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1. Introduction

This is the introduction of Schneider Electric RJ45 WiFi6 PoE Access Point. They can be used in a various integration scenario acting in different network roles. It is necessary to understand how to configure them in order to achieve maximum security. This system and security hardening guideline can help you to follow best practices which you can use in your home.

The RJ45 WiFi wall outlet is a dual-band WiFi access point in the wall outlet range. This offer is a complement to the PoE switch to offer an entire PoE system at home. It will also satisfy the standard for WiFi, PoE and Ethernet 1Gits. It combines WiFi 4, WiFi 5 and WiFi 6, broadcasting in compliance with the IEEE 802.11ac wave2 standard for WiFi 5 and 802.11ax for WiFi 6 (MU-MIMO). It is a WiFi access point which also accepts a connection of a RJ45 patch cord on the front 1 Gbits RJ45 socket to connect to a device (ex : gaming), which allows to stay in conformity with the installation standard requirements.

This product meets essential requirements of following European Directives,

- RE Directive : 2014/53/EU
- ErP Directive : 2009/125/EC
- RoHS Directive: 2011/65/EU; 2015/863/EU

This product also complies with the requirements of Annex III Module B of Radio Equipment Directive 2014/53/EU in relation to the following essential requirements

- Essential Requirements: Article 3.3 (d) in respect to network protection

2. Working Mode

It is recommended to install the access point ("AP") in each room to achieve best wireless network coverage. In that case, you will have multiple wireless APs at home.

The access point ("AP") is able to run in 3 of different working modes:

- **Network AP mode**, which is also the default factory mode.
- **Controller mode**, anyone of the AP, can be set to this mode for managing other APs.
- **Independent mode**. Which allowing AP working alone. This is an occasionally setting and please remember that you must set AP to Network AP mode in case you want it to be controlled.

It is recommended to enable the controller mode on 1 of the randomly selected AP. The controller AP will take control of all other Network APs in the network.

Most of configurations and parameters such as WiFi SSID name and password, WiFi parents and children timing control, will be automatically distributed to all other APs.

The latest AP that is set to controller mode will take the controller role, while the previous will automatically defer.

3. Passwords

When the end user is setting or changing password, it needs to meet the password setting rules described below,

- The password must be between 8 and 32 characters.
- The password must contain at least four of the following character types: uppercase letters, lowercase letters, numbers, ASCII characters.

4. Quick Configuration

Power on the AP by standard IEEE 802.3af/at PoE upstream device.

1. Connect to default WiFi.
 - With a mobile phone, scan the QR printed on the side of AP to join the default WiFi network.
 - With a computer, using the default SSID name & key printed on the side of AP to connect to the WiFi network.
2. Open Configuration Web Page.
 - With a mobile phone, scan the QR code printed on the side of AP to open the web page.
 - With a computer, use the configuration web address printed on the side of AP to open the web page

Safari web browser is not supported. Please use Firefox, Chrome or Edge browser.

Please ignore the private warnings prompted by web browser and proceed to configuration web page.

3. Set a New Login Password.
 - Set the login password following password setting rules.
4. Enable the Controller Function
 - One of the WiFi AP should be enabled as a Controller. This will greatly save your time from setting other network APs.
5. Set Country Code

- Setting correct country code ensures correct local time on the AP. It also ensures the Dynamic Frequency Selection (DFS) function is being used correctly in your country.
6. Set WiFi SSID and Password
 - Set WiFi SSID and password for both 2.4G & 5G bands.
 7. Configure the advanced parameters of the AP after system rebooting.

5. Security Guideline

Cybersecurity

At Schneider Electric, we believe that cybersecurity is an essential prerequisite. We are committed to providing reliable, stable, and secure products to minimize potential network risks and protect the safety of customers, property, and the environment.

Cybersecurity aims to prevent your system, communication networks, and devices from possible attacks, data tampering, or confidential information leakage.

In addition to the direct instructions in this document, observe and follow Schneider Electric's security recommendations. For details and assistance in protecting your installation, you can also contact your local Schneider Electric Industrial Cybersecurity Services organization or visit Cybersecurity Services on the Schneider Electric website.

Cybersecurity Services on the Schneider Electric Website:

[Recommended Cybersecurity Best Practices](#) Proven cybersecurity procedures

[Cyber security service](#)

From conception to maintenance: certified experts advise and guide you through a holistic cybersecurity program.

[Cybersecurity support portal](#)

Security notifications, reporting a vulnerability, reporting an incident.

Default Exposed Network Service & Interfaces

All the service provided by this AP device should not be exposed to internet.

Service	Description of main function
UDP53	Domain name resolution service of DNS
UDP161	SNMP (Simple Network Management Protocol)
UDP3888	MQTT service discovery (MQTT client and MQTT broker)
UDP5353	Multicast DNS (mDNS) and DNS Service Discovery (DNS-SD)

	protocols
TCP53	Reliability-critical DNS operations
TCP443	HTTPS (HTTP Secure)
TCP18883	MQTT broker

Defense in Depth Approach

Defense in Depth (DiD) is an approach to cyber security in which a series of defense mechanisms are layered on top of each other to protect valuable data and information. If one mechanism fails, another immediately springs into action to thwart an attack.

We strongly recommend following the Defense-in-Depth approach when integrating the AP into your system, including the recommended access control as shown in the following content.

Access Control

It is advisable that the AP is installed in residential home and connect to the router via secured network.

Password Management

For safe access to AP, it is advisable to use a complex password that is hard to guess and keep the password in safe. Please change the access password periodically.

MAC ACL

It is advisable to setup MAC ACL list to allow valid users only.

Turn off SSID broadcasting

It is advisable to turn off broadcasting so that the WIFI will not appear in the WIFI scanning list, so that to reduce the risk of unauthorized access.

Turn on Wireless encryption

It is advisable to use WPA3 encryption. To access the AP in unencrypted mode may increase the risk of unauthorized access.

Firmware update

It is advisable to update to the latest version to remedy the cyber security vulnerabilities.

Monitor network status

It is advisable to monitor the connected device list periodically to make sure there is no unauthorized access.

Safe browsing habits:

When connecting to a wireless network, utilize the HTTPS protocol, antivirus software, and secure browser plugins to protect personal data security.

Isolation of networked devices:

It is advised to utilize VLAN (Virtual Local Area Network), guest network, or other forms of network isolation. Arrange devices in different segments according to different scenarios.

Turn off unnecessary services:

It is advised to reduce potential attack surfaces by turn off non-essential services such as SNMP.

Secure disposal

If a device needs to be disposed of, perform a factory reset so that all data, project data and programming is deleted from the device.

Ensure that it is securely to prevent its redeployment into your operational system or unauthorized use.

Cybersecurity vulnerabilities/incidents

You can review the Vulnerability Management Policies on Schneider Electric's Cybersecurity Vulnerabilities Portal (<https://www.se.com/ww/en/work/support/cybersecurity/vulnerability-policy.jsp>) or report potential cybersecurity vulnerabilities.

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Netfilter/Iptables

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i2c-tools

This package contains an heterogeneous set of I2C tools for the Linux kernel as well as an I2C library. The tools were originally part of the lm-sensors project but were finally split into their own package for convenience. The library is used by some of the tools, but can also be used by third-party applications. The tools and library compile, run and have been tested on GNU/Linux..

wolfssl

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