Edge-corE

Quick Installation Guide

EWS5204

Wireless LAN Controller

Copyright Notice

FCC Caution

This equipment has been tested and proven to comply with the limits for a class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

CE Caution

The device has been tested and passed the requirements of the following standards, and hence fulfills the EMC and safety requirements within the CE marking requirement.

- EMC: EN 55032:2012 + AC:2013 Class A, EN 61000-3-2:2014 Class A,
  EN 61000-3-3:2013 including the followings:
  EN 61000-4-2, EN 61000-4-3, EN 61000-4-4,
  EN 61000-4-5, EN 61000-4-6, EN 61000-4-8, EN 61000-4-11

Safety: EN 60950-1: 2006 + A11:2009 + A1:2010 + A12:2011 + A2:2013

Japan - VCCI Class A

この装置は、クラスA機器です。この装置を住宅環境で使用すると電波妨害を引き起こすことがあります。この場合には使用者が適切な対策を講ずるよう要求されることがあります。

Laser Safety

Warning: Fiber Optic Port Safety: When using a fiber optic port, never look at the transmit laser while it is powered on. Also, never look directly at the fiber TX port and fiber cable ends when they are powered on.

Avertissment: Ports pour fibres optiques - sécurité sur le plan optique: Ne regardez jamais le laser tant qu'il est sous tension. Ne regardez jamais directement le port TX (Transmission) à fibres optiques et les embouts de câbles à fibres optiques tant qu'ils sont sous tension.

Warnhinweis: Faseroptikanschlüsse - Optische Sicherheit: Niemals ein Übertragungslaser betrachten, während dieses eingeschaltet ist. Niemals direkt auf den Faser-TX-Anschluß und auf die Faserkabelenden schauen, während diese eingeschaltet sind.

警告: 光ファイバーポートの安全性：
光ファイバーポートを使用する場合は、電源がオンの状態の時に送信レーザーを絶対に見ないでください。また、電源がオンの状態の時には、ファイバーTXポートとファイバーケーブルの端を直接見ないでください。

Power and Battery Safety

Warning: If your switch uses a lithium battery, do not attempt to replace the battery yourself. Return the switch to the manufacturer for battery replacement.
Avertissement: Si votre commutateur utilise une batterie au lithium, n'essayez pas de la remplacer vous-même. Renvoyez le commutateur au fabricant pour le remplacement de la batterie.
警告: スイッチでリチウムバッテリーが使用されている場合は、自分自身で電池を交換しようとしないでください。スイッチを製造元に送り返して、バッテリーを交換してください。

If the switch contains lithium batteries that are encased in a sealed chassis, do not attempt to open the sealed chassis under any circumstances.

Si le commutateur contient des batteries au lithium enfermées dans un châssis scellé, n'essayez en aucun cas d'ouvrir le châssis scellé.
密閉されたシャーシに入れられたリチウムバッテリーがスイッチに含まれている場合は、いかなる状況でも密閉されたシャーシは絶対に開けないでください。

Risk of explosion if the battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.
Risque d'explosion si la batterie est remplacée par un type incorrect. Éliminez les piles usagées conformément aux instructions.
バッテリーを間違ったタイプと交換すると爆発の危険があります。使用済みのバッテリーは、指示に従って廃棄してください。

Caution - Risk of Electrical Shock: To disconnect power, remove all power cords from the unit.
Attention - Risque de Choc Électrique: Pour débrancher, l'alimentation électrique, veuillez assurer tous les cables d'alimentation sont retires de l'unite.
注意 - 感電の危: 電源を切る場合は 、 電源コ-トを本装置から抜いてくたさい 。
注意 - 有觸電的危險：如要切斷電源，請將全部電源線都從機器上拔掉
注意 - 有触电的危险：如要切断电源，请将全部电源线都从机器上拔掉

Power Cord Safety

Please read the following safety information carefully before installing the switch:

Warning:

Installation and removal of the unit must be carried out by qualified personnel only.

- The unit must be connected to an earthed (grounded) outlet to comply with international safety standards.
- Do not connect the unit to an A.C. outlet (power supply) without an earth (ground) connection.
- The appliance coupler (the connector to the unit and not the wall plug) must have a configuration for mating with an EN 60320/IEC 320 appliance inlet.
- The socket outlet must be near to the unit and easily accessible. You can only remove power from the unit by disconnecting the power cord from the outlet.
- This unit operates under SELV (Safety Extra Low Voltage) conditions according to IEC 60950. The conditions are only maintained if the equipment to which it is connected also operates under SELV conditions.

France and Peru only

This unit cannot be powered from IT† supplies. If your supplies are of IT type, this unit

must be powered by 230 V (2P+T) via an isolation transformer ratio 1:1, with the secondary connection point labelled Neutral, connected directly to earth (ground).

† Impédance à la terre

Important! Before making connections, make sure you have the correct cord set. Check it (read the label on the cable) against the following:

Power Cord Set	
U.S.A. and Canada	The cord set must be UL-approved and CSA certified. The minimum specifications for the flexible cord are: - No. 18 AWG - not longer than 2 meters, or 16 AWG. - Type SV or SJ - 3-conductor The cord set must have a rated current capacity of at least 10 A The attachment plug must be an earth-grounding type with NEMA 5-15P (15 A, 125 V) configuration.
Denmark	The supply plug must comply with Section 107-2-D1, Standard DK2-1a or DK2-5a.
Switzerland	The supply plug must comply with SEV/ASE 1011.
U.K.	The supply plug must comply with BS1363 (3-pin 13 A) and be fitted with a 5 A fuse which complies with BS1362. The mains cord must comply with IEC 60227 (designation 60227 IEC 52).
Europe	The supply plug must comply with CEE7/7 (“SCHUKO”). The mains cord must comply with IEC 60227 (designation 60227 IEC 52). IEC-320 receptacle.
Japan	The supply plug must comply with JIS C8303, Power cord must comply with JIS C 3306,and IEC 60320 receptacle.

スイッチを設置する前に、次の安全に関する情報を注意深くお読みください。

警告：

本装置の設置と取り外しは、資格のある担当者のみが実施する必要があります。

- 国際安全基準に適合するため、装置はアースされた（接地された）コンセントにつなげる必要があります。

- アース（アース）接続のない AC コンセント（電源）に本装置をつなげないでください。
- 機器のカプラー（壁のプラグではなく、装置へのコネクター）は、EN 60320/IEC 320 機器用プラグと嵌合する構成にする必要があります。
- コンセントが装置の近くにあり、簡単にアクセスできる必要があります。装置の電源を切るには、電源コードをコンセントから外す必要があります。
- 本装置は、IEC 60950 に準拠した安全特別低電圧（SELV: Safety Extra Low Voltage）条件で動作します。接続されている機器が SELV 条件で動作する場合にのみ、この状態が維持されます。

電源コードセット	
米国およびカナダ	コードセットは、ULに認証されたCSA認定を受けているものである必要があります。 可撓コードの最小仕様は次のとおりです。 - 18番 AWG - 2メートル以内または16 AWG。 - タイプ SV または SJ - 3導体 コードセットには、少なくとも10Aの定格電流容量が必要です。 接続プラグは、NEMA 5-15P（15A、125V）構成のアースタイプである必要があります。
デンマーク	電源プラグは、規格DK2-1aまたはDK2-5aの107-2-D1セクションに準拠している必要があります。
スイス	電源プラグは、SEV/ASE 1011に準拠している必要があります。
英国	電源プラグがBS1363 （3 ピン13A）に準拠しており、BS1362 に準拠した5A ヒューズが備わっている必要があります。 主電源コードはIEC 60227 （指定60227 IEC 52）に準拠している必要があります。
ヨーロッパ	電源プラグは、CEE7/7（「SCHUKO」）に準拠している必要があります。 主電源コードはIEC 60227（指定60227 IEC 52）に準拠している必要があります。 IEC-320レセプタクル。
日本	供給プラグはJIS C8303に準拠している必要があります。電源コードはJIS C 3306とIEC 60320レセプタクルに準拠している必要があります。

Preface

This Quick Installation Guide provides instructions on how to install the EWS5204 and to get the network up and running with basic configurations.

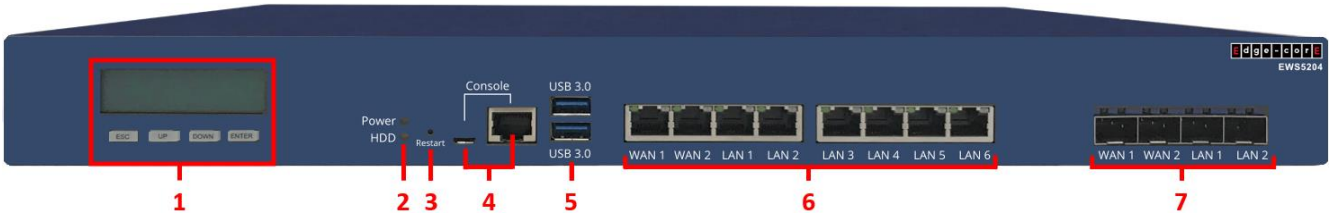
Package Contents

1. EWS5204 x 1
2. Quick Installation Guide (QIG) x 1
3. Console Cable x 1
4. Power Cord x 1

I in the package instead of substituting any components by other suppliers to guarantee best performance.

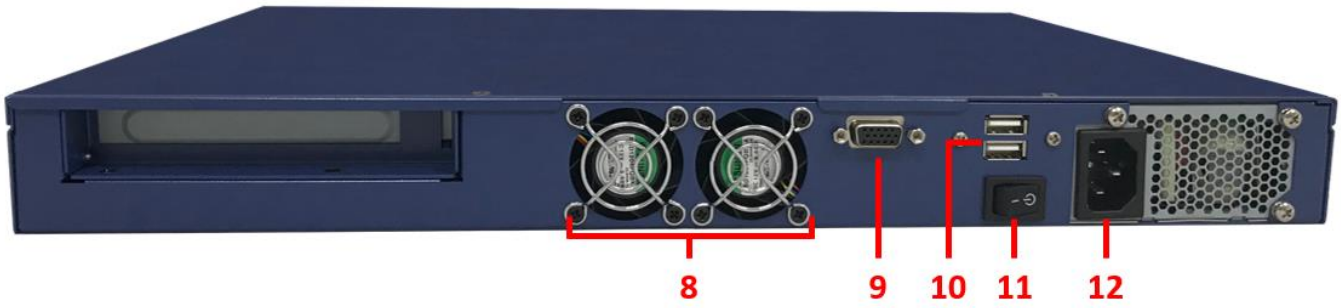
System Overview

Front Panel



1. **LCD Panel**: This panel allows administrators to view system information such as network interfaces through the navigation buttons (ESC, UP, DOWN, and ENTER).
2. **LED Indicators**:
   - **Power:** Lights up when power supply is on.
   - **HDD:** Hard drive activity light.
3. **Restart**: To restart the system, press and hold the button for 5 seconds and release the button.
4. **Console**: Ports (USB Type-C and RJ45) for connection to the Console Interface of the controller. Use a terminal emulation program such as Microsoft's Hyper Terminal to access the configuration console.
5. **USB 3.0**: USB ports reserved for future use.
6. **RJ45 Ports**:
   - **WAN1, WAN2:** RJ45 ports (10/100/1000 Base-T) for the uplink Ethernet connection. It is the default port that can pass all traffic to an uplink device, such as the xDSL modem / router.
   - **LAN1 – LAN6:** RJ45 ports (10/100/1000 Base-T) for the downlink Ethernet connection. Downlink devices such as switches, APs, and client PCs can be attached here.
7. **SFP Ports**: Ports to insert Small Form-factor Pluggable (SFP) transceiver modules
   - **WAN1, WAN2:** For the uplink connection via a fiber optic cable.
   - **LAN1, LAN2:** For the downlink connection via a fiber optic cable.

Rear Panel



8. **Device Cooling Fan:** Do not block the cooling fans and eave enough open space for ventilation.
9. **VGA Connector:** For connecting to a VGA monitor if needed.
10. **USB Ports:** Reserved for future use.
11. **Power Switch:** For powering the device On/Off.
12. **Power Supply Socket:** For connecting the power cord to the built-in power supply.

Hardware Installation

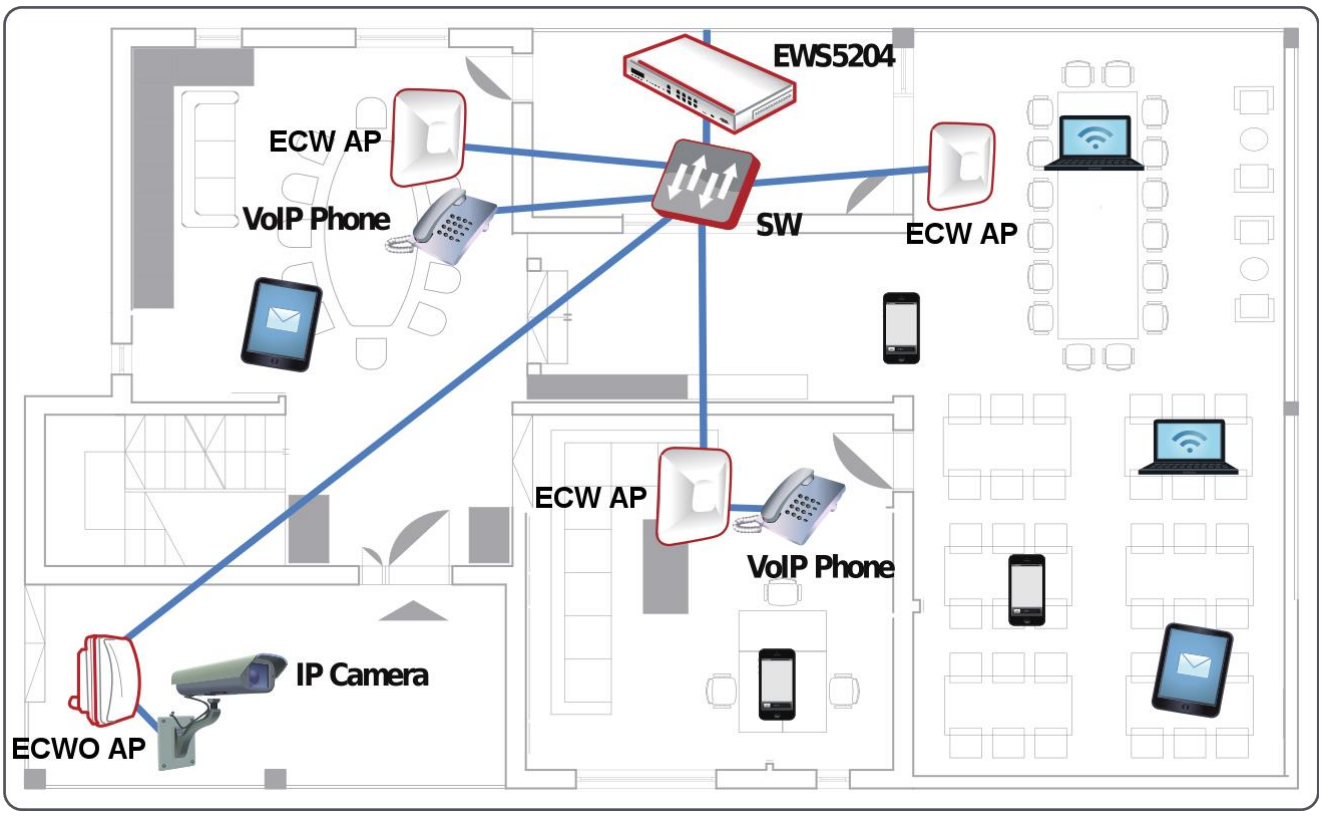
Please follow the steps below to install the EWS5204:

1. Attach the power cord to the power supply socket on the rear panel. The power LED should be on indicating a proper connection.
2. Connect a switch/router of an internal network to the WAN1 Port on the front panel via an Ethernet cable. The WAN1 LED should be on indicating a proper connection.
3. Connect an administrative PC to any LAN Port on the front panel via an Ethernet cable. The LED of this LAN port should be on indicating a proper connection.

Getting Started

< System Overview >

Edgecore EWS5204 is an enterprise-grade Wireless LAN Controller that supports user management, AP management, and other management functions. The following network diagram is a deployment example where the EWS5204 is able to centrally manage users and wireless access points at this site.



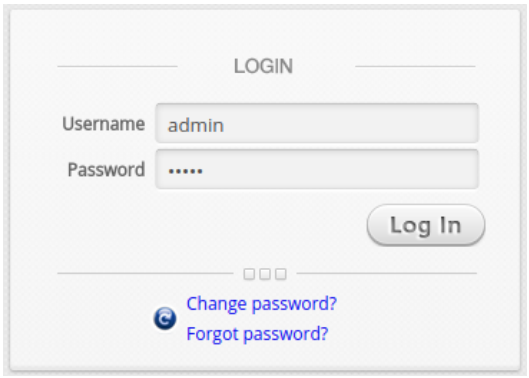
< Web Management Interface >

The EWS5204 has a web-based interface for configuration and management. Follow the steps below to access the Web Management Interface (WMI) for the first time.

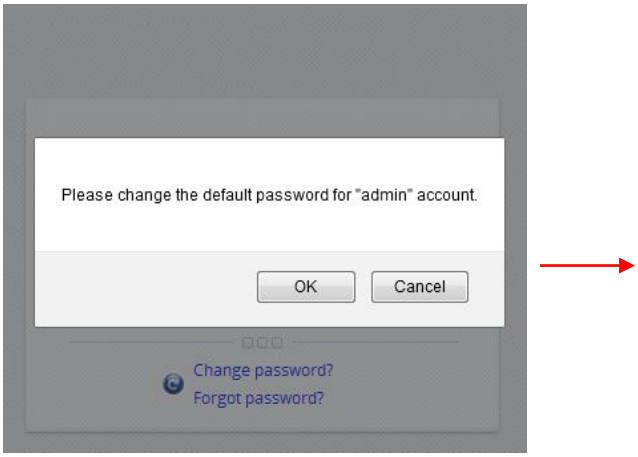
1. Connect your administrative PC directly to a LAN port of the EWS5204 via an Ethernet cable. The PC should be assigned an IP Address in the same subnet as the EWS5204's (192.168.1.0/255.255.0.0).

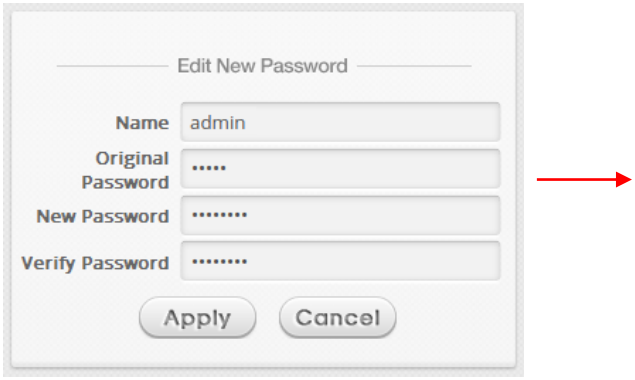
2. Launch the web browser and enter the IP Address of Default Service Zone (192.168.1.254) in the address field.

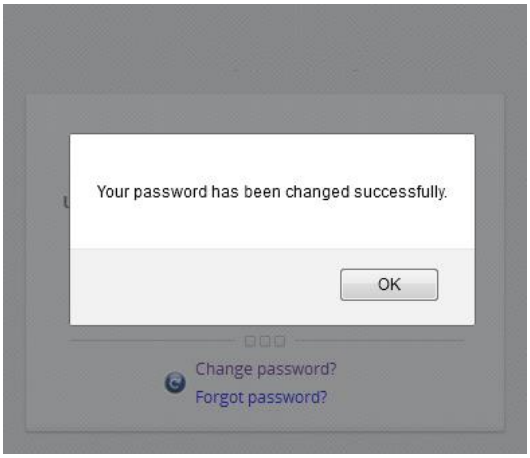
Log in using default Username (**admin**) and Password (**admin**) on the Administrator Login Page:



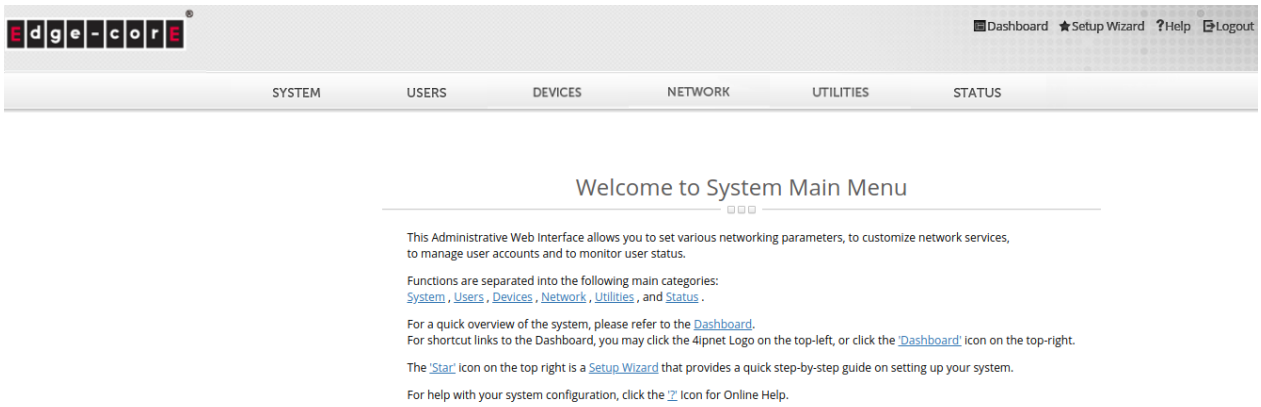
3. After a successful login, the system prompts for the administrator to change password for security reasons. The new password needs to be at least 6 characters long and include at least one alphabet and one number.



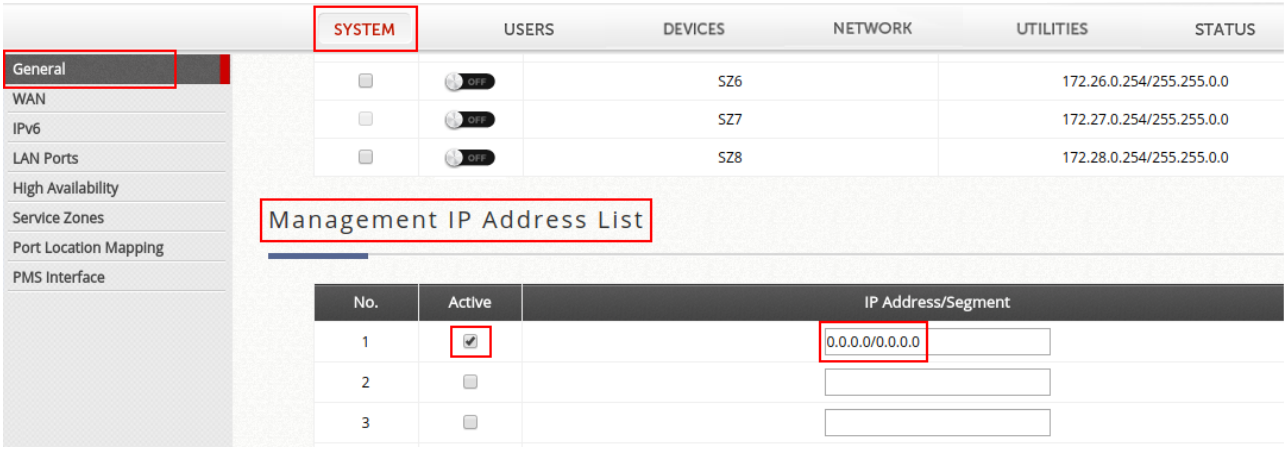




4. Welcome to System Main Menu page will appear after a successful login with the new password.



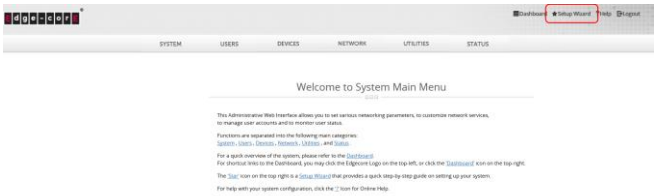
In some cases, you may need to access the WMI of the EWS5204 from its WAN side (i.e. using WAN IP address of the EWS5204). By default, this is not allowed for security reasons; in this situation, go to Management IP Address List (SYSTEM > General > Management IP Address List) and check 'Active' on the first entry (0.0.0.0/0.0.0.0), as shown in the screenshot below.



Common Settings

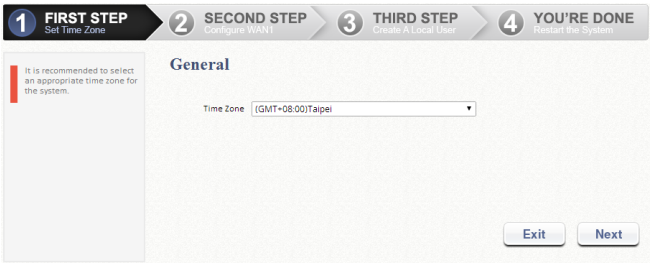
< Setup Wizard >

To quickly configure EWS5204, click on the **Setup Wizard** button on the top right corner to start the configuration process.



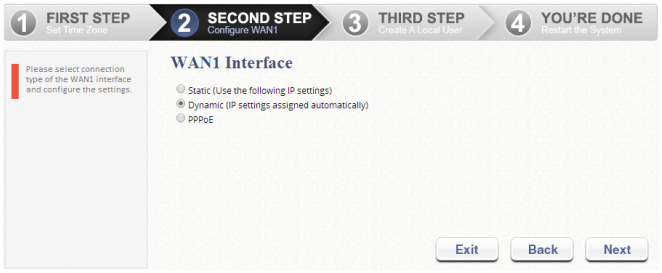
Step 1: General

- Select a time zone to set up the system time.
- Click ***Next*** to continue.



Step 2: WAN1 Interface

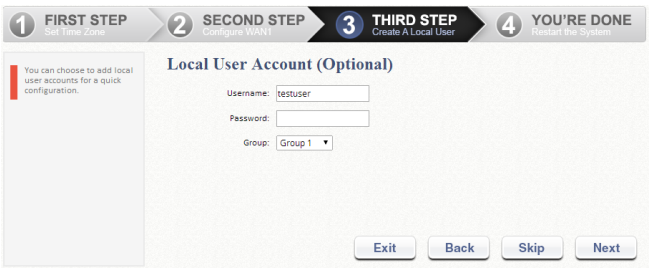
- Select a proper type of uplink connection for WAN1 interface: **Static**, **Dynamic**, or **PPPoE**.
- Click ***Next*** to continue.



Step 3: Local User Account (Optional Step)

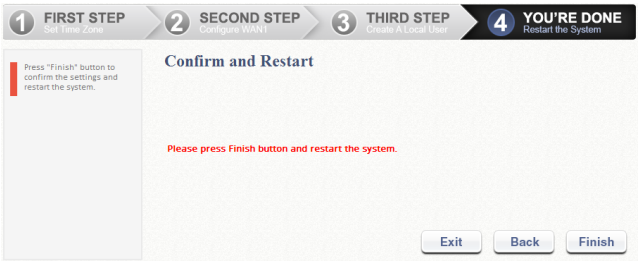
To verify the system's readiness upon completion of the Setup Wizard, a new local account can be created into the Local database. You can click ***Skip*** to go directly to Step 4.

- Enter the *Username* (e.g. **"testuser**) and *Password* (e.g. **"testuser"**) to create a new local account.
- Click ***Next*** to continue.
- More local accounts can be added by clicking the ***Back*** button in Step 4.

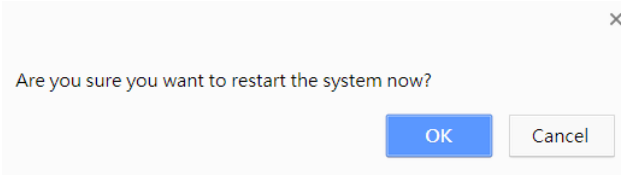


Step 4: Confirm and Restart

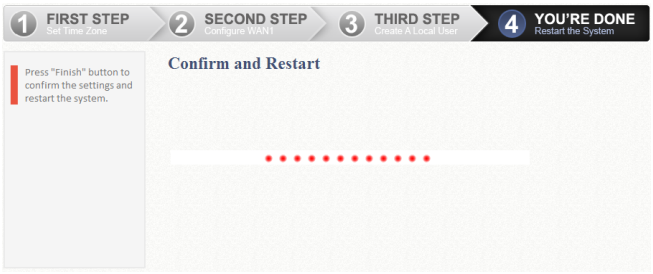
- Click ***Finish*** to save current settings and restart the system.



- A confirmation dialog box will then appear. Click ***OK*** to continue.

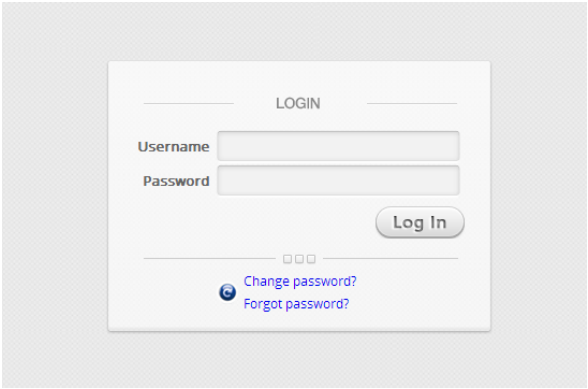


- A **Confirm and Restart** message will appear during the restarting process. Please do not interrupt the system until the Administrator Login Page appears.



Note: The system will try to reach a DNS server at this stage. Therefore, it may take a longer time if the configured DNS cannot be found.

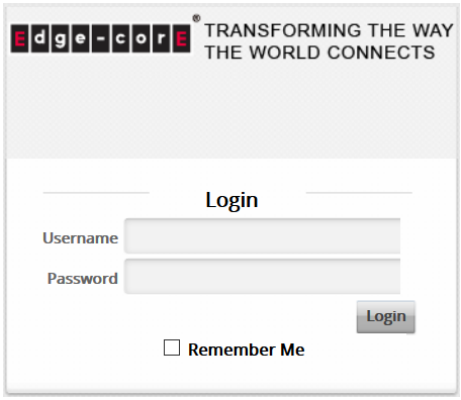
- The system restart process is completed when the following **Administrator Login Page** appears.



< User Login >

Follow the steps below to verify the basic configurations completed through **Setup Wizard**:

1. Connect a laptop PC to any LAN Port of the EWS5204. The PC will obtain an IP address automatically from the EWS5204.
2. Launch a web browser and enter any website URL. The default **User Login Page** will appear.

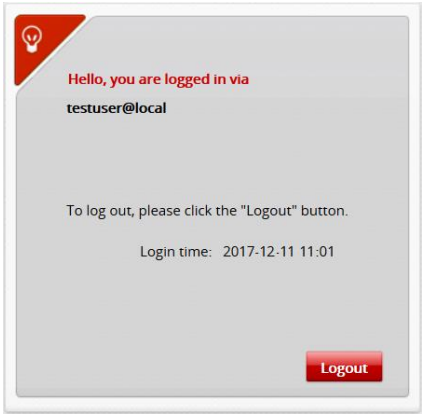


3. Enter the *Username* and *Password* of a local user account previously created via Setup Wizard (e.g. Username*: testuser* and Password*: testuser*); then Click ***Login***.

Note:

1. EWS5204 supports multiple authentication server options including built-in local user database and external authentication servers.
2. The complete username format is **userid@postfix**, where the “postfix” string stands for the back-end authentication server. Therefore, match-up between username and back-end authentication server is based on the "postfix" string in the complete username.
3. Normally, users have to enter the complete username (e.g. ***testuser@local***) during login. However, the postfix can be omitted when the postfix matches the default authentication server option. For example, LOCAL database is enabled as the default authentication option; therefore, in this case, you can simply enter ***testuser*** as the username to log in.

The Login Success Page appears after the user is successfully authenticated by the system.



Well Done! The EWS5204 is now up and running with the basic configurations.

P/N: V10020211022