

ELSA-E

Electronic Shelf Labeling System

Ultra-thin · Full graphic
Autonomous system · Environmentally friendly

RELIABLE CELLULAR-LIKE TECHNOLOGY

Unique tree network for optimal coverage without interference from existing Wi-Fi networks

EASY PLUG-AND-PLAY SYSTEM

Self-networking system enables easy infrastructure setup

EXCEPTIONAL READABILITY

High resolution e-paper display for 180° viewing

LONG BATTERY LIFE & FAST UPDATES

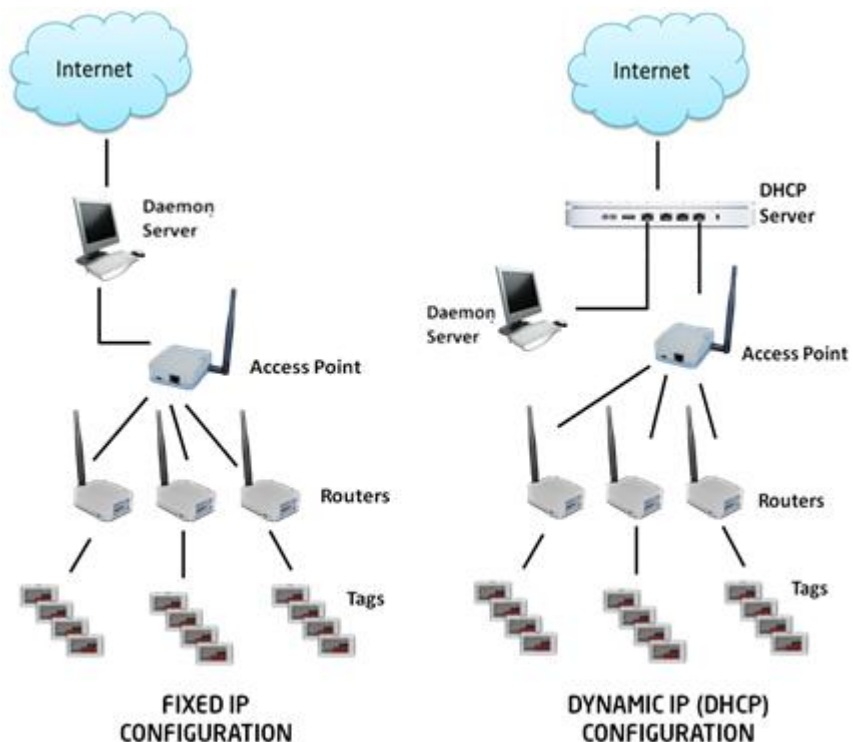
Unique wireless protocol tuned to optimize the power consumption and network efficiency

ANTI-JAMMING FROM Wi-Fi

13,500 graphic tags are fully updated per hour

INTELLIGENT SYSTEM

Acknowledges updates; battery level and signal strength notifications



Technical Specification



MODEL NAME: EF22-S2

INFRASTRUCTURE

SIZE (W x H x T) mm	70 x 37.4 x 9.6
WEIGHT, g	24
ANTENNA	EMBEDDED

NETWORK

INTERFACE	WIRELESS
FREQUENCY	SUB-GHz ISM
OPERATION MODE	SELF-NETWORKING (AUTOMATIC CONNECTION BUILT-UP AND RECOVERY)
ENCRYPTION	AES 128-bit
TRANSMISSION RANGE	100 METERS (LINE OF SIGHT)

OPERATING CONDITIONS

OPERATING TEMP/HUMIDITY	0 ~ 40°C / 35 ~ 55% (non-condensed)
STORAGE TEMP/HUMIDITY	0 ~ 40°C / 35 ~ 80% (non-condensed)
POWER	1 x CR2450
APPLICATIONS	Retail, Smart Display

Display

RESOLUTION	250 x 122
DPI	130 pixel

Device Setup:

Access Point Setting

The Access Point has a wired connection to the base station (computer) and communicates wirelessly with the Router(s) via the M2COMM proprietary protocol.

Please refer to below procedure to setup your Access Point.



Status Indicators and Assembly:



LED status functions:

Red –Power-on self-test error

Green –Power on indicator

Blue –Network connection, shall flash slowly during boot-up and stay on while connection is built up successfully.

Yellow network
activity indicator



Green network
activity indicator

Access Point - Network Port:

GREEN network activity indicator—turns on when a cable connects the port to another Gigabit Ethernet port

YELLOW activity indicator—Flashes to indicate network activity over that port



Attach included Antenna



Plug one end of the supplied Cat 5E cable into the Access Point, the other end should be plugged into your computer.



Connect the supplied AC power adaptor as shown.
Use only the adaptor that came with your Access Point

Router Setting

The Router(s) operate wirelessly, via the M2COMM proprietary protocol, with the Access Point and aisle light.

Please refer to below procedure to setup the Router.



Status Indicators and Assembly:



LED status functions:

Red –Power-on self-test error

Green –Power on indicator

Blue –Network connection, shall flash slowly during boot-up and stay on while connection is built up successfully.



Attach included Antenna



Connect the included AC power adaptor as shown.
Use only the adapter that came with your Router

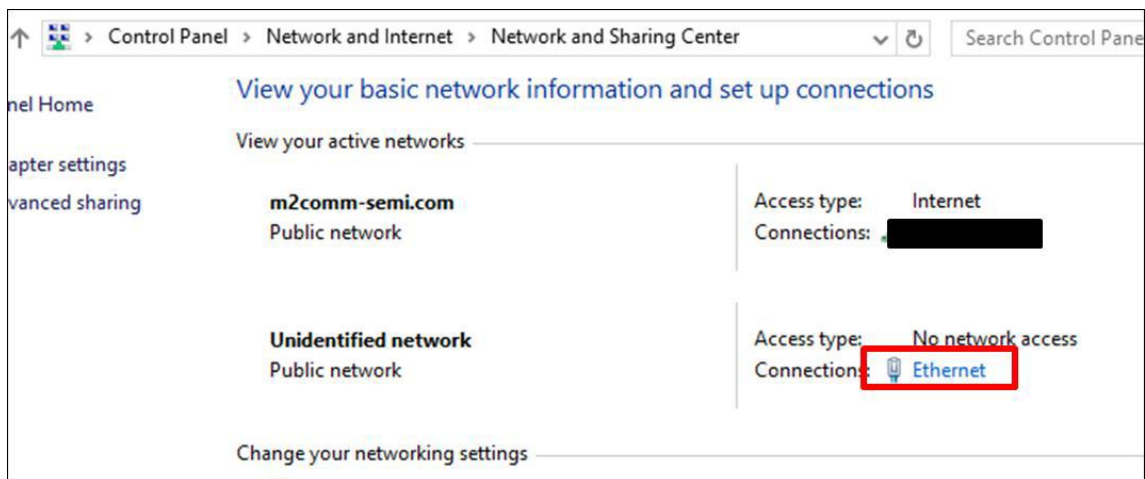
ELSA-E Demo System IP setting:

The ELSA-E demo system is designed to use either a static IP address for a single Access Point or a dynamic IP address when multiple Access Points are installed.

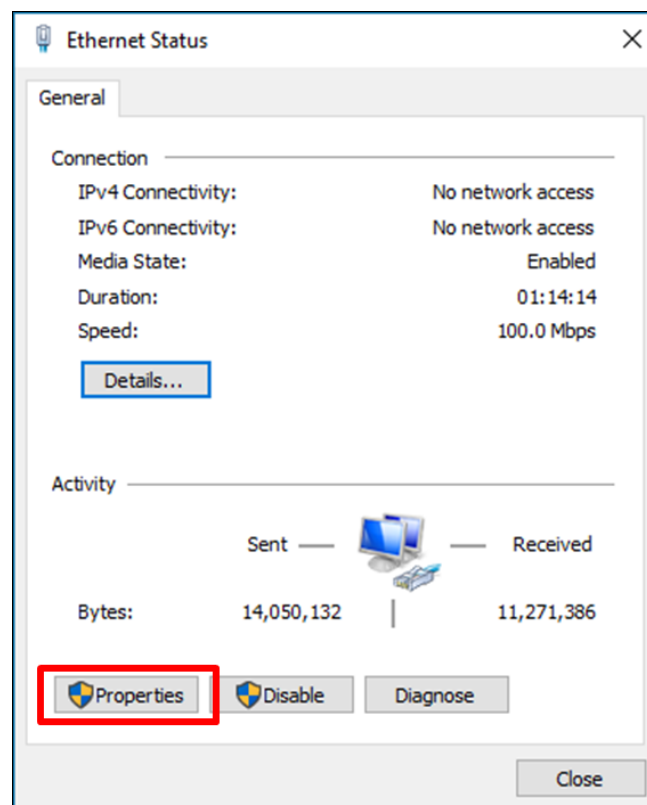
IP Address Configuration (Static IP):

Ensure that your Access Point is connected to your computer.

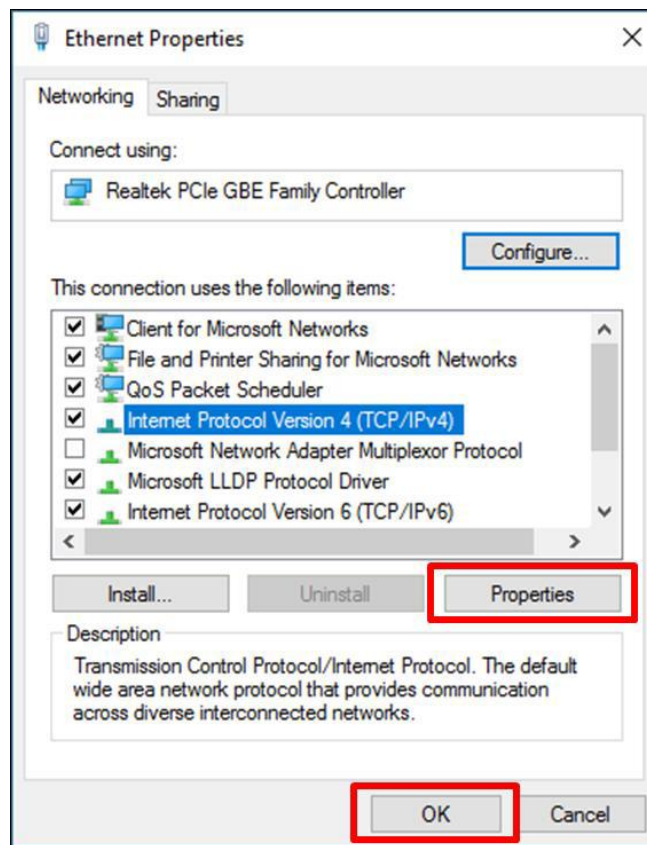
The Access Point comes pre-configured with a default IP Address (192.168.2.1). It's necessary to modify the IP Address of the Ethernet port on your computer that is cabled to the M2COMM Access Point so that they can communicate with one another.



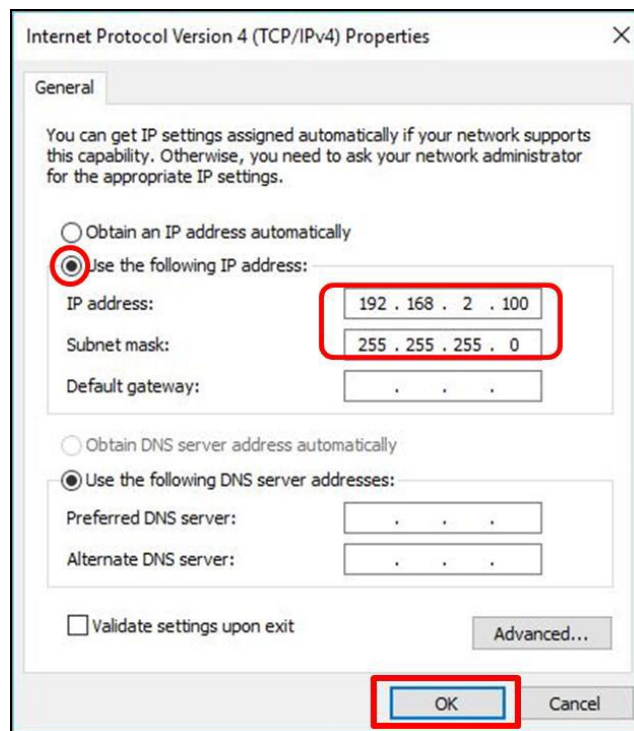
Using your computer mouse, click on Ethernet



Select Properties



Select Internet Protocol Version 4 (TCP/IPv4), and select Properties



Check Use the following IP address and enter information shown above. Select OK to apply new settings

IP Address Configuration (Dynamic IP):

For installations that contain multiple Access Points an external TCP/IP Ethernet hub is required. And please contact M2COMM for further details.

M2COMM ELSA-E Demo Installation:

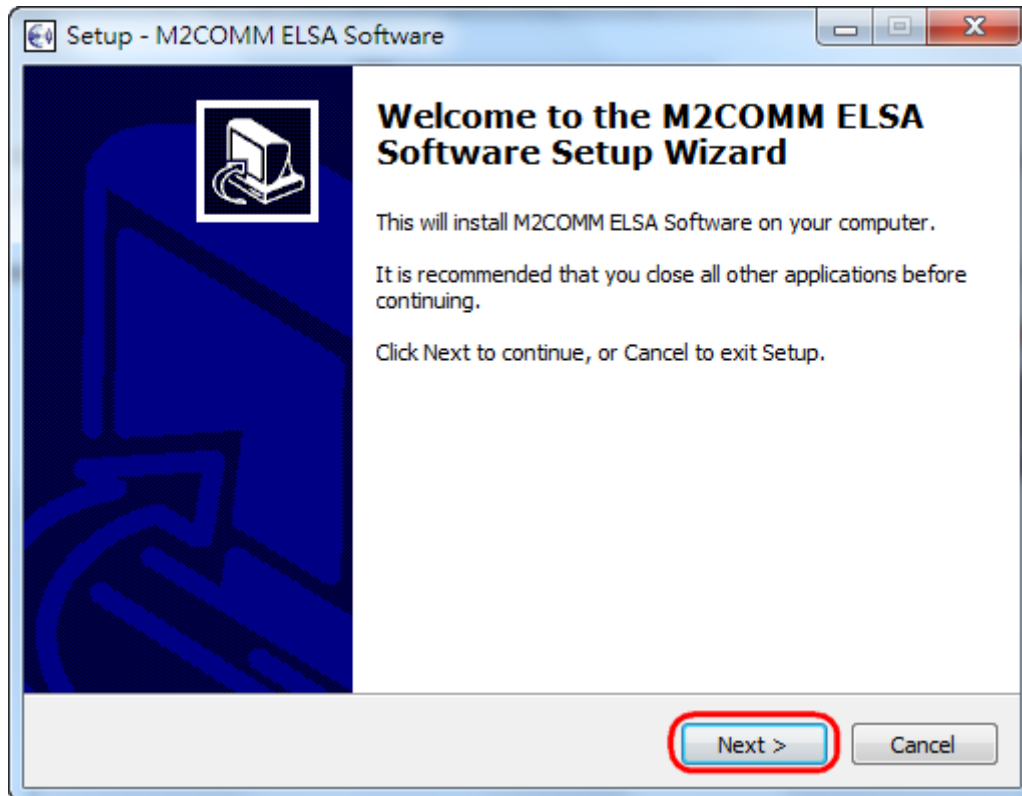
Software Installation:

Put below two executable files into the same folder on your computer. And double-click the “**ELSA1.0_2.x.x.xxxx.exe**” file to begin the installation.

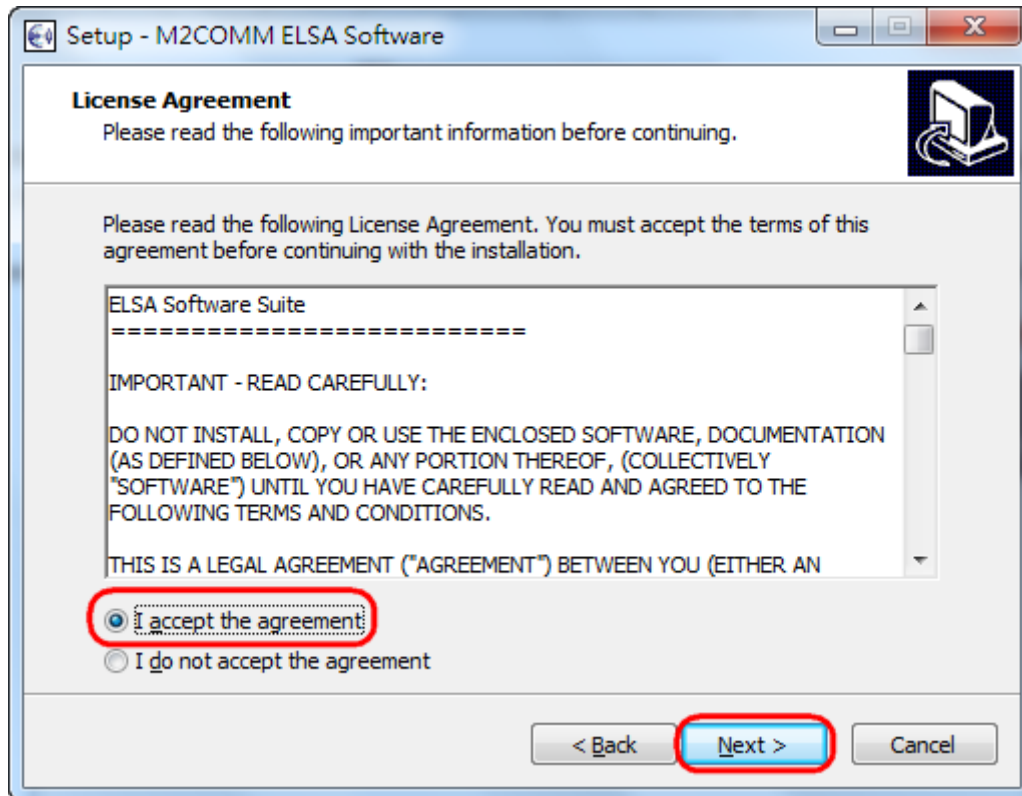
 **ELSA1.0_2.7.3.638.exe**

You may be asked for permission to allow the program to make changes to your computer; you must agree to this to enable installation to start.

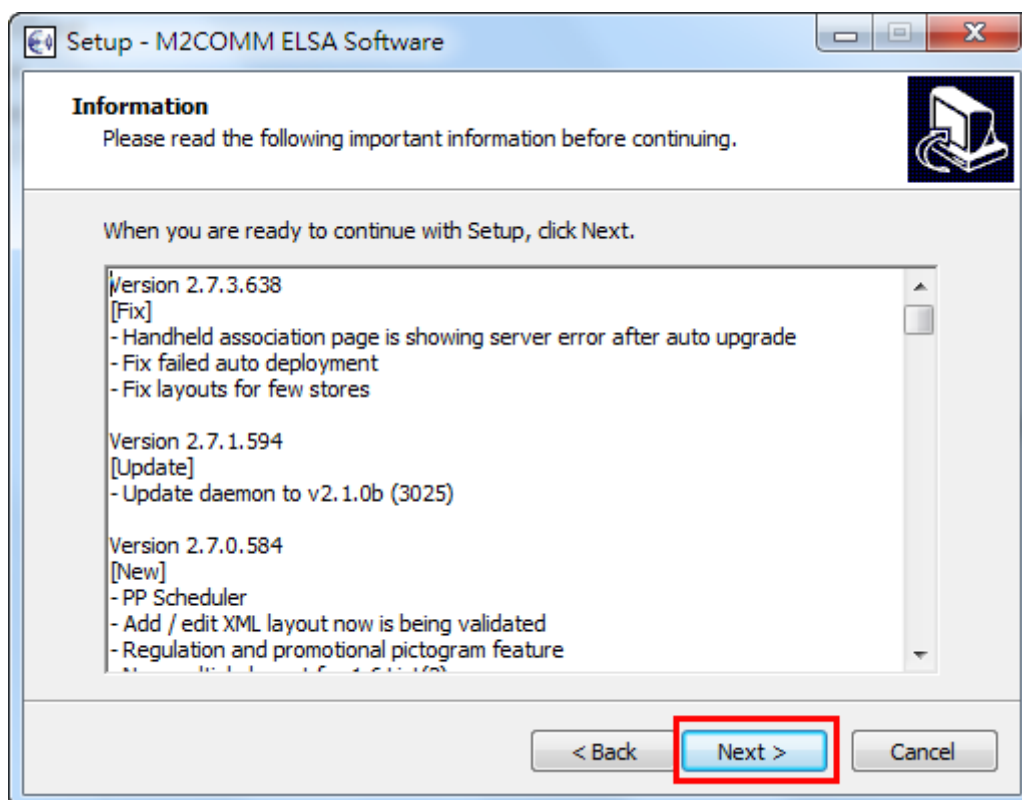
Follow the on-screen instructions to finish the installation process.



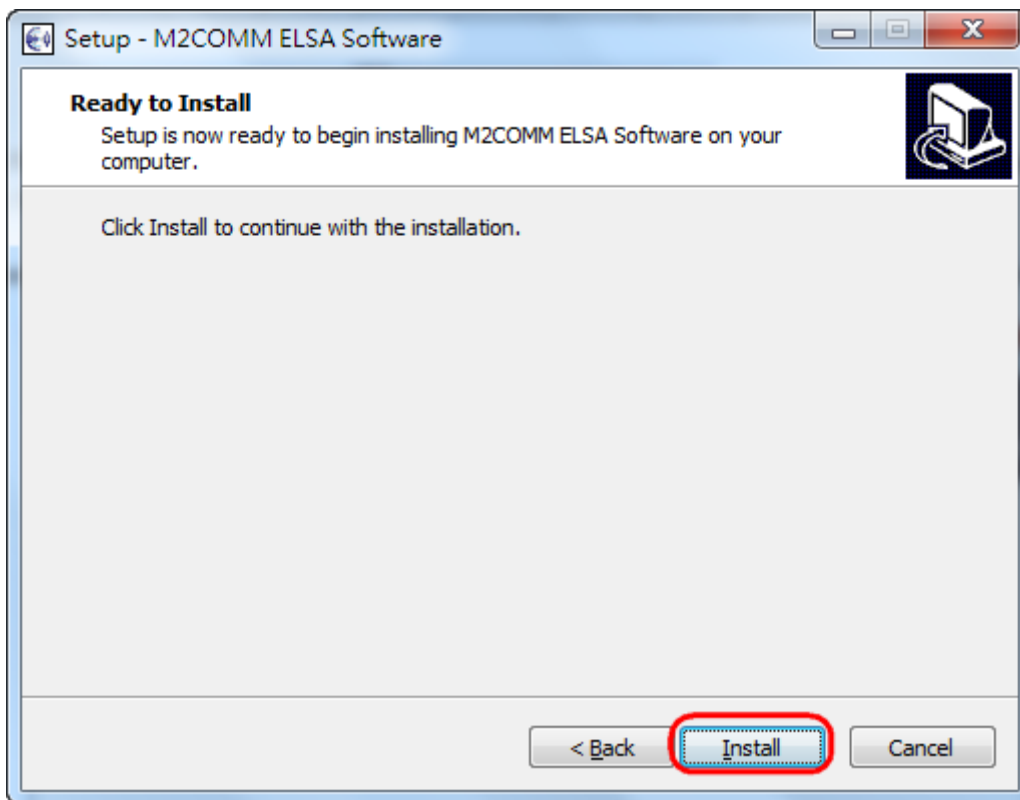
Click **Next>** to continue



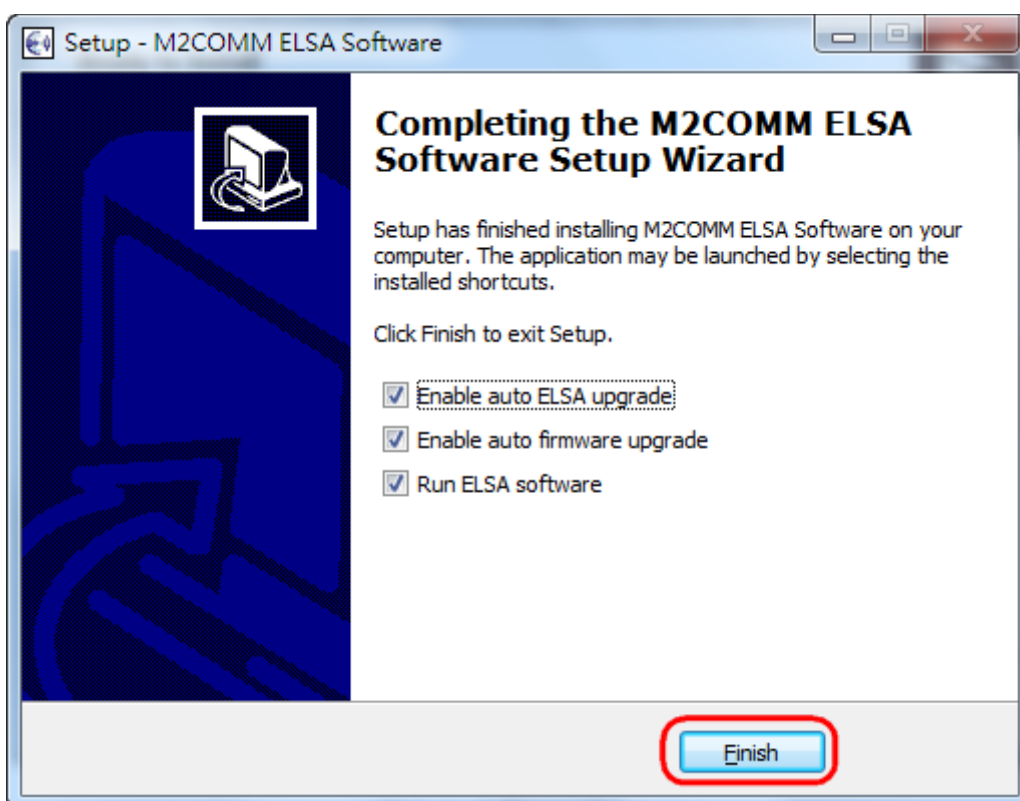
Select **Accept**, and Click **Next>** to continue



Click **Next** to continue



Click **Install** to start

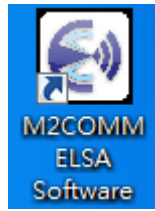


Click **Finish** to complete the installation

The ELSA-E Demo system has now been installed and executed on your computer. The icon will be hidden inside the toolbar, and you should now be able to locate this icon on your computer screen, by right click.

Open in browser (M2COMM ELSA Software)
Show M2COMM ELSA Software console
Turn off M2COMM ELSA Software

And you can also launch the ELSA software by double click the icon on desktop.



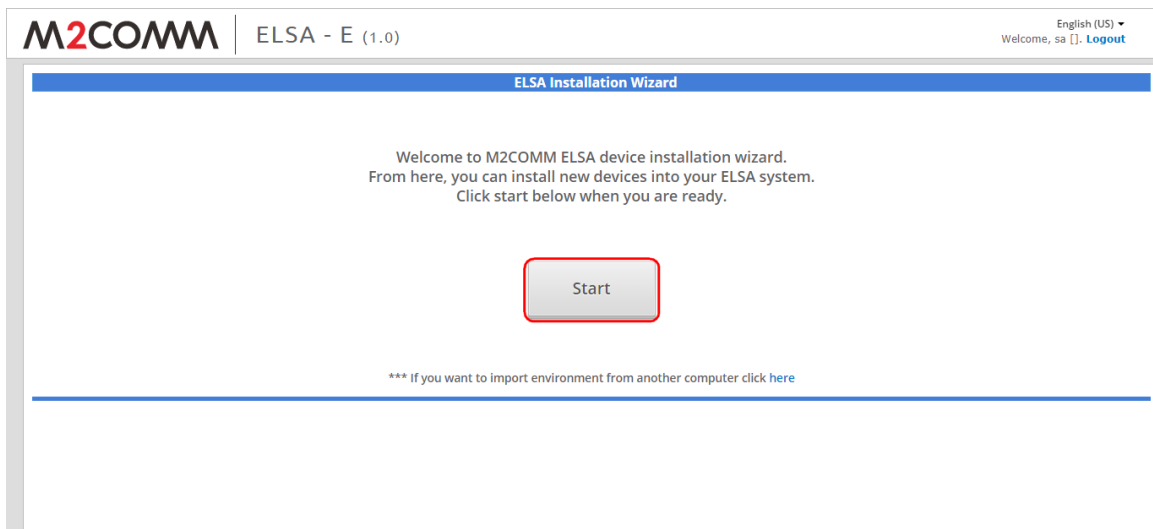
Setting Up the ELSA-E 2.7" ESL

Ensure that the Access Point is connected to your computer that the Router(s) and 2.7" ESL are installed throughout your premises and are powered on.

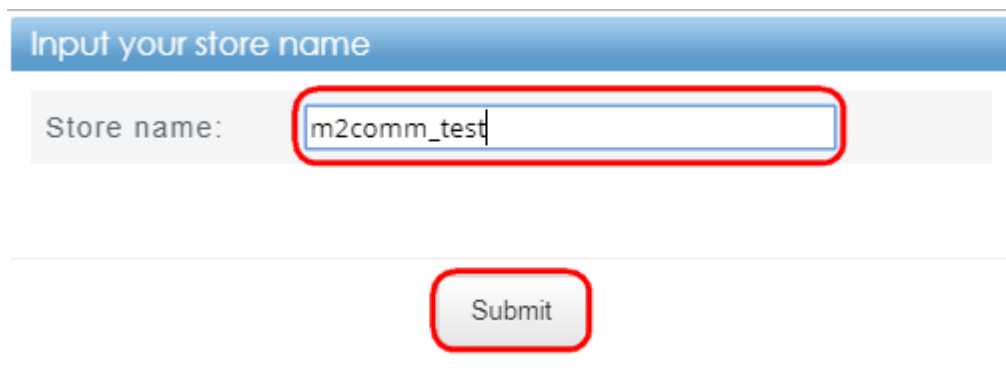
- **Install the AP**



Input “**sa**” for user name and “**passw0rd**” for password, to access the ELSA web.



Press “**Start**” to initial the ELSA system installation process.

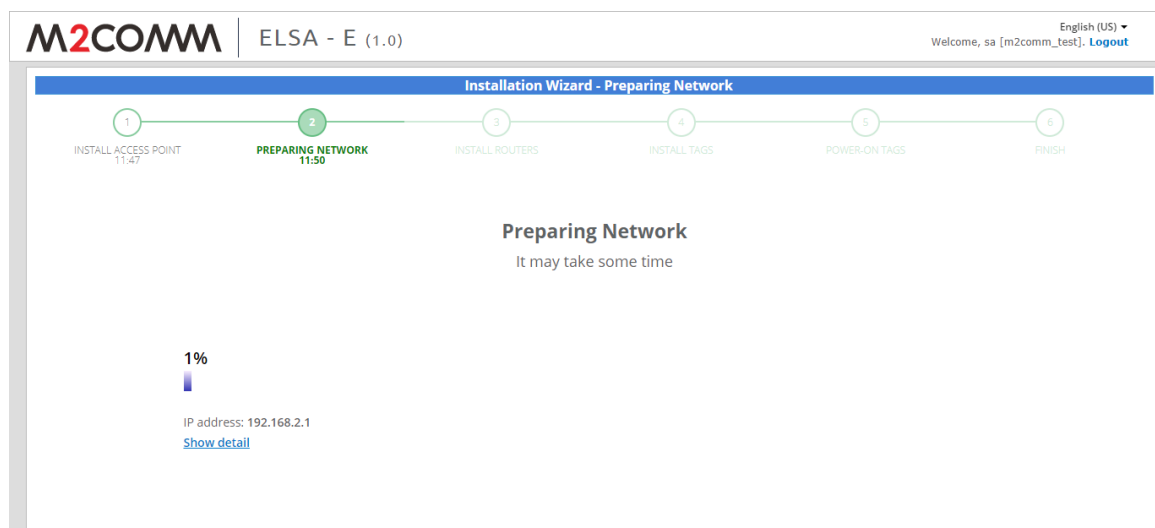


Input the store name, and press **Submit**



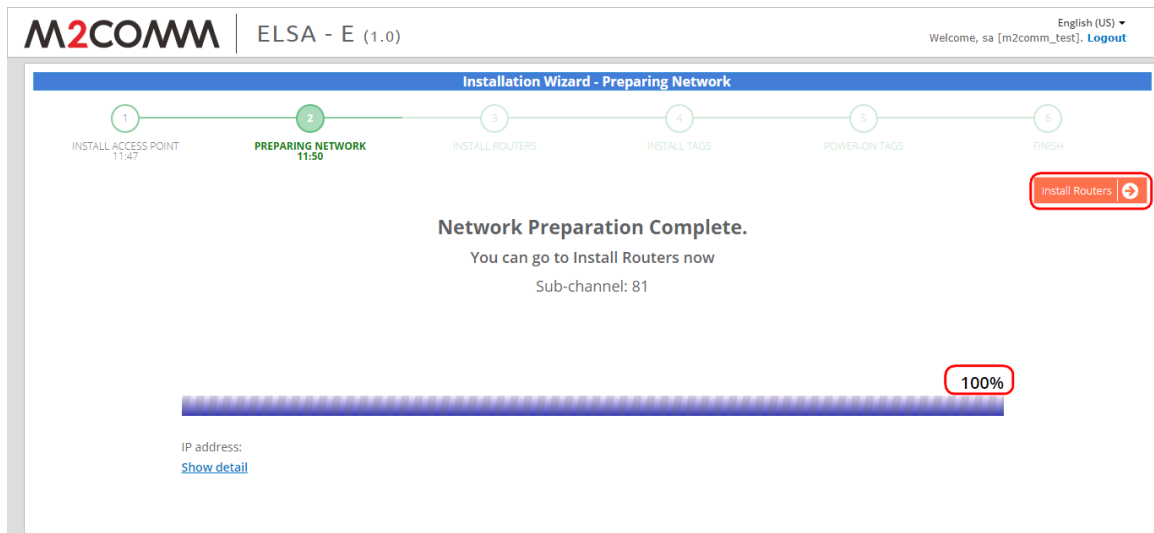
ELSA system will find the connected AP, and press **“Yes”** to confirm

- **Preparing the Network**



ELSA system will start to find the available wireless channel to use, and the whole process will take 1 hour.

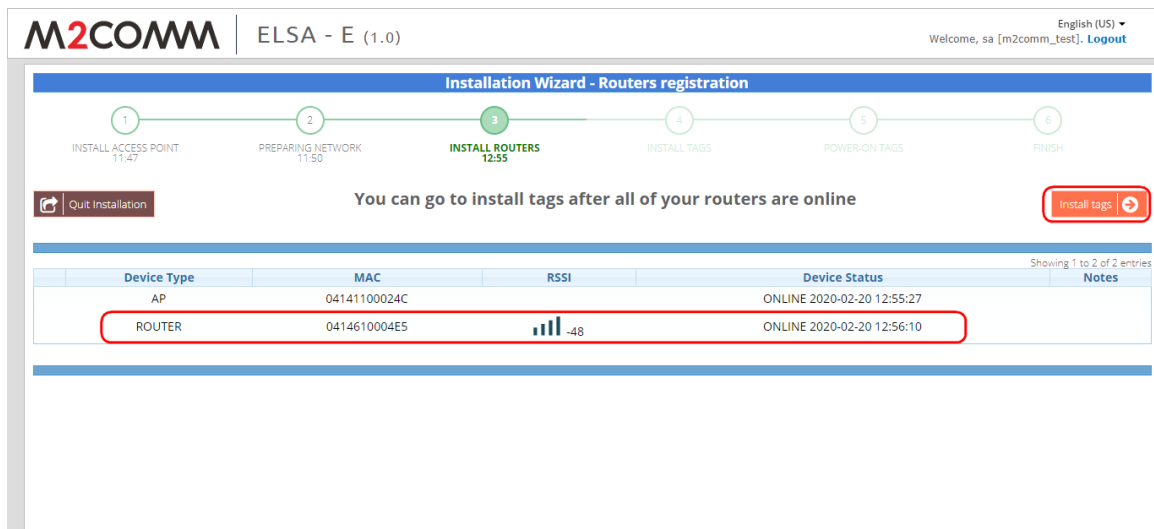
Press “Show detail” for more information.



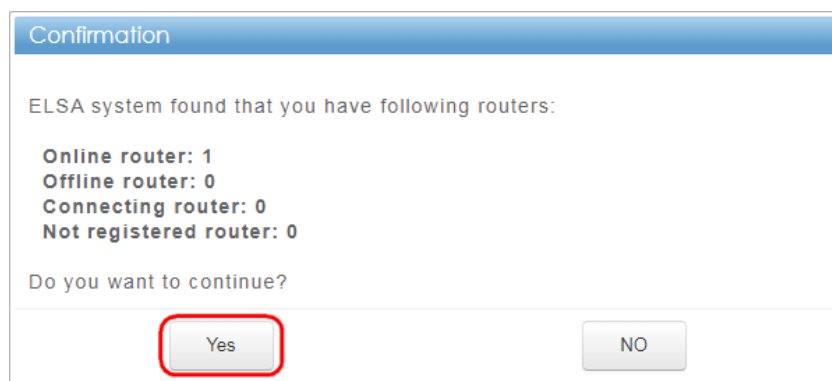
Press **“Install Routers”** for next step, when the progress bar reaches to 100%

- **Install Router**

Power on the Router

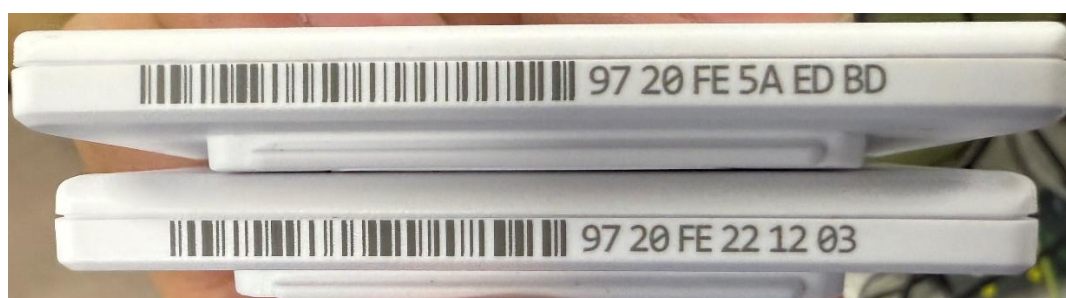
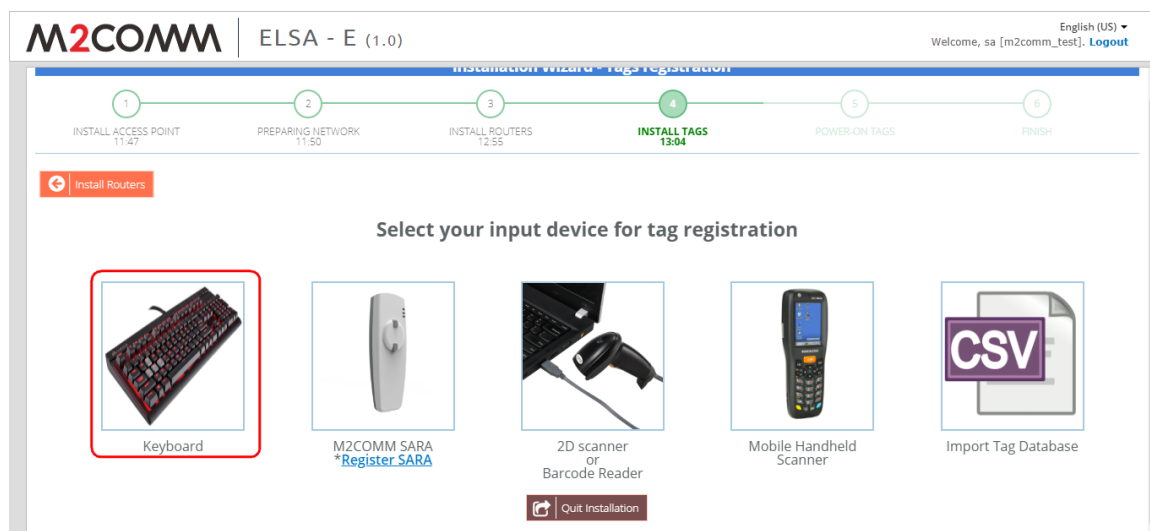


After the ELSA system install the Router automatically, press **“Install tags”**

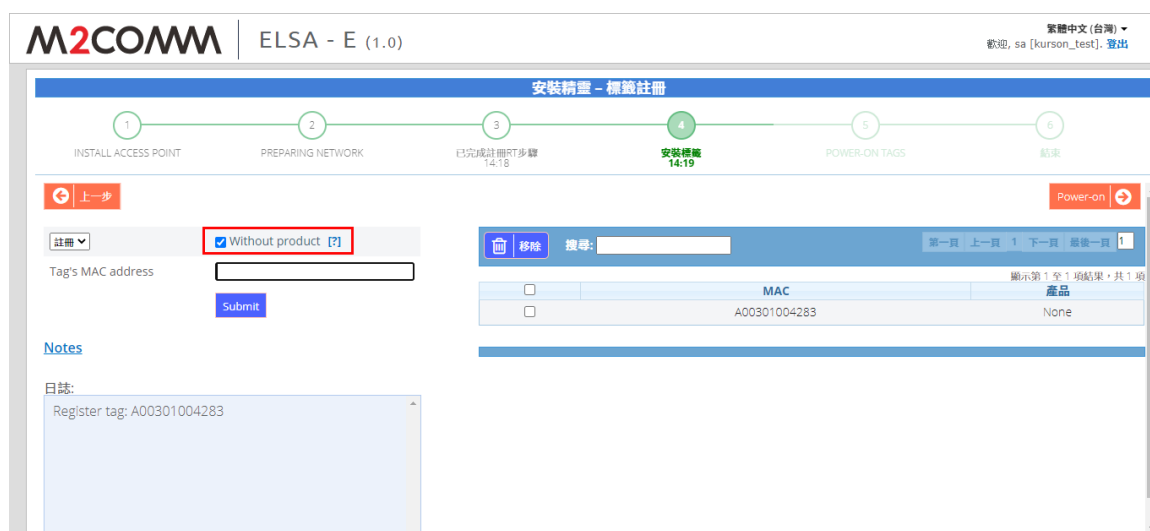


Press **“Yes”** to confirm the device status and enter to next step

- **Install Tags**



Select **"Keyboard"** to input the MAC address posted on the bottom side of the ESL



Check **"Without product"** and Press **"Power-on"**

- **Power ON Tags**



確認

How do you want to power-on the tags?

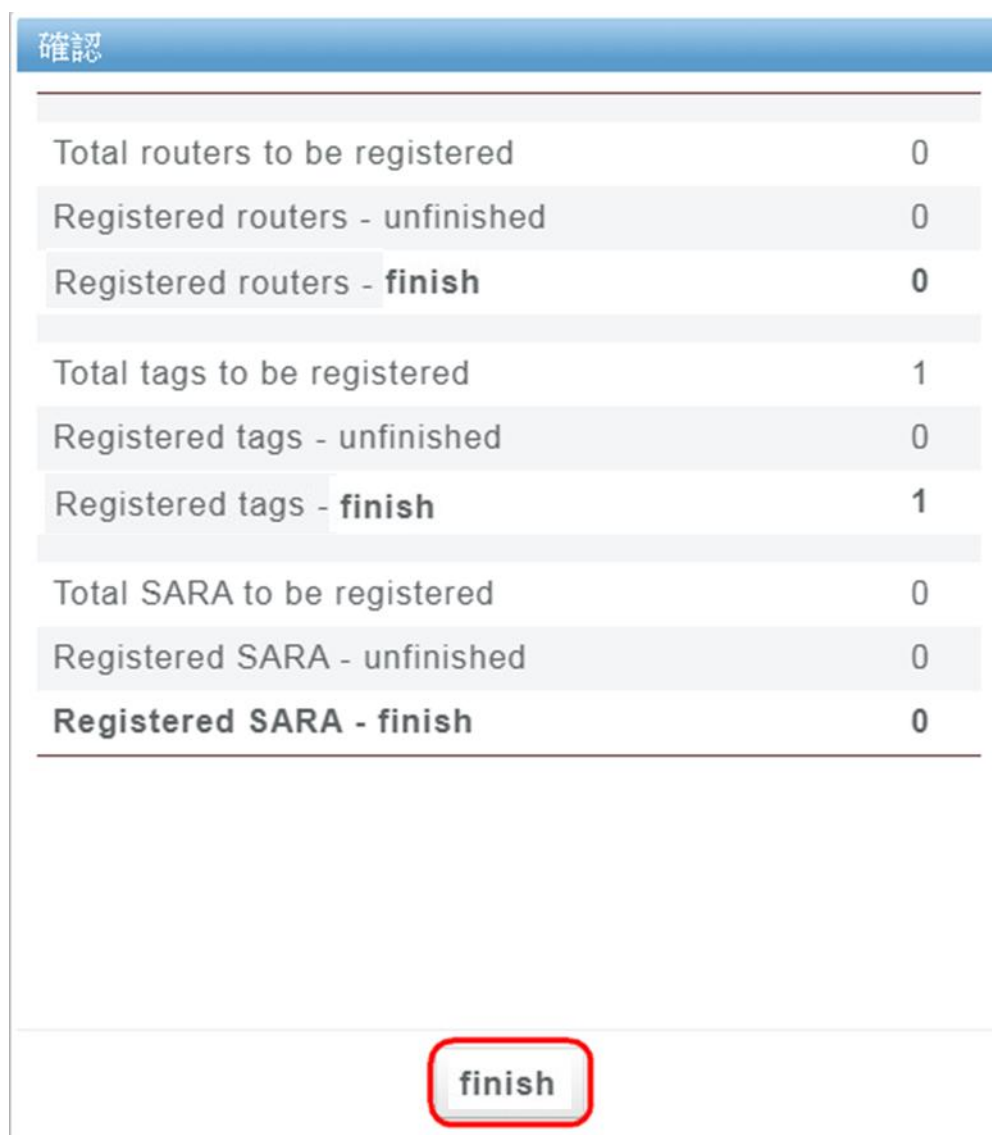
Auto power-on Manual power-on Cancel

Select "**Auto power-on**"

Wait for ESL to show the "**wakeup**" page

- **Finish**

After several minutes, the ELSA web will show "**register finish**" page



確認

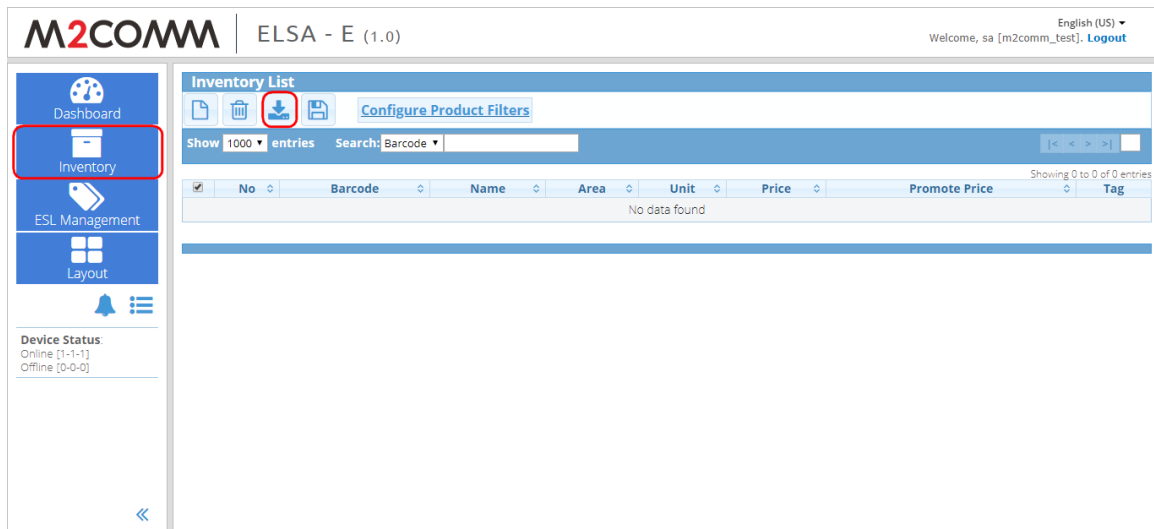
Total routers to be registered	0
Registered routers - unfinished	0
Registered routers - finish	0
Total tags to be registered	1
Registered tags - unfinished	0
Registered tags - finish	1
Total SARA to be registered	0
Registered SARA - unfinished	0
Registered SARA - finish	0

finish

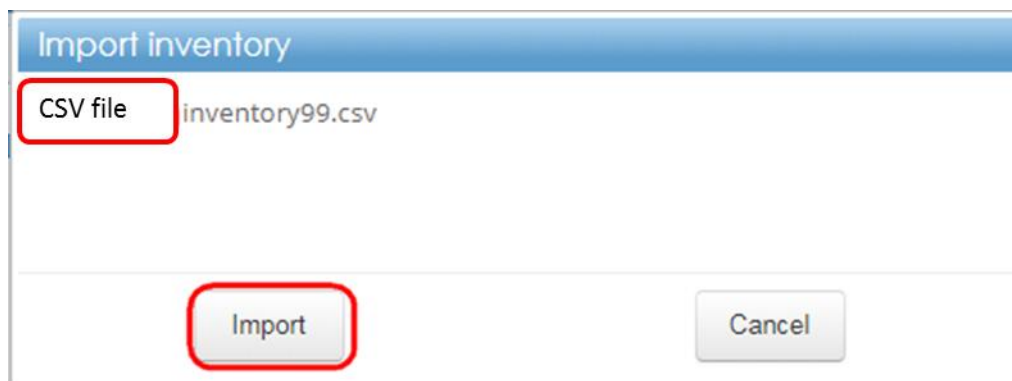
Press "**Finish**" to leave the installation wizard and back to ELSA dashboard

Show the image on ELSA-E 2.2" ESL

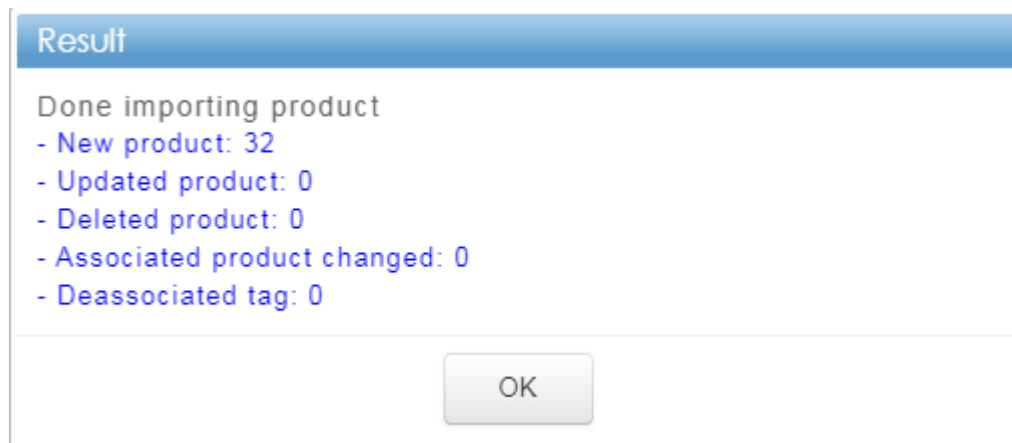
Load the CSV file to import the inventory list first.



Switch to **"Inventory"** page, and press **"Import"**



Select the CSV file, **"inventory99.csv"** and press **"Import"**



Press **"OK"** to finish the inventory importing

M2COMM | ELSA - E (1.0) 繁體中文 (台灣) 歡迎, sa [kurson_HOLAtest]. 退出

主頁面

庫存

ESL管理

Layout

裝置狀態
已連線 [1-1-0]
未連線 [0-0-1]

ESL管理

顯示 1000 項結果 搜尋: MAC

MAC	上層節點MAC	裝置種類	產品	Profile	Layout	電量	作業狀態	裝置狀態	喚醒模式	網路模式	訊號強度
04141100024C	000000000000	AP					SUCCESS 2020-09-16 18:01:20	ONLINE 2020-09-16 18:00:39	STOP	LOCK	
0414610004E5	04141100024C	ROUTER					None	ONLINE 2020-09-16 18:41:34			-58
A0030100429A	0414610004E5	TAG	47100600069558[南僑水晶葡萄柚籽 抗菌洗衣用肥皂液體補充包1600g]	Medium 2.2" Red	2p2_HOLA_new	3.147	SUCCESS 2020-09-16 18:46:33	OFFLINE 2020-09-16 18:46:33			-36

裝置歷史紀錄

Switch to “ESL Management” page, and double click the 2.2”ESL

編輯ESL

Single product

Profile Medium 2.2" Red

產品 3264680009754 [NUXE HUILE PRODIGIEUSE 100ML]

Layout 2p1_BWR_Template1



Save

Cancel

Select any one of the product, and press “Save”

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ESL管理

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裝置狀態
已連線 [1-1-1]
未連線 [0-0-0]

ESL管理

顯示 1000 項結果 搜尋: MAC

MAC	上層節點MAC	裝置種類	產品	Profile	Layout	電量	作業狀態	裝置狀態	喚醒模式	網路模式	訊號強度
04141100024C	000000000000	AP					SUCCESS 2020-09-07 14:23:35	ONLINE 2020-09-07 14:30:13	STOP	LOCK	
0414610004E5	04141100024C	ROUTER					None	ONLINE 2020-09-07 14:30:15			-59
A00301004283	0414610004E5	TAG	3264680009754[NUXE HUILE PRODIGIEUSE 100ML]	Medium 2.2" Red	2p1_BWR_Template1	3.098	SUCCESS 2020-09-07 14:36:26	ONLINE 2020-09-07 14:35:58			-37

裝置歷史紀錄

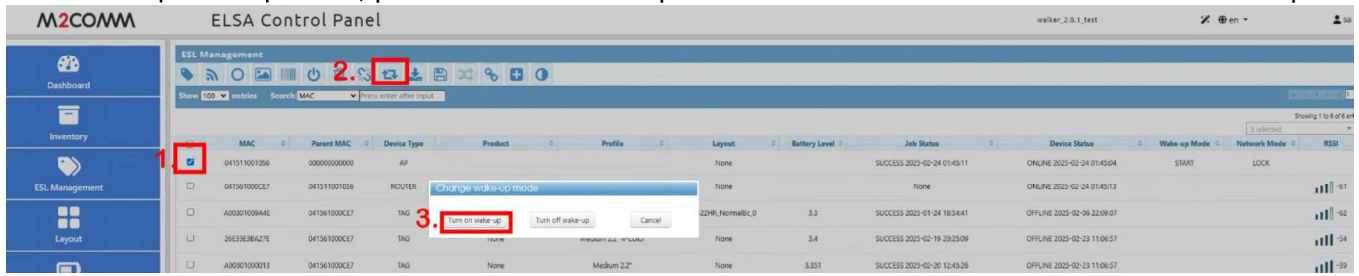
Waiting for the job status become from “Processing” to “SUCCESS”



2.2" ESL shown with image

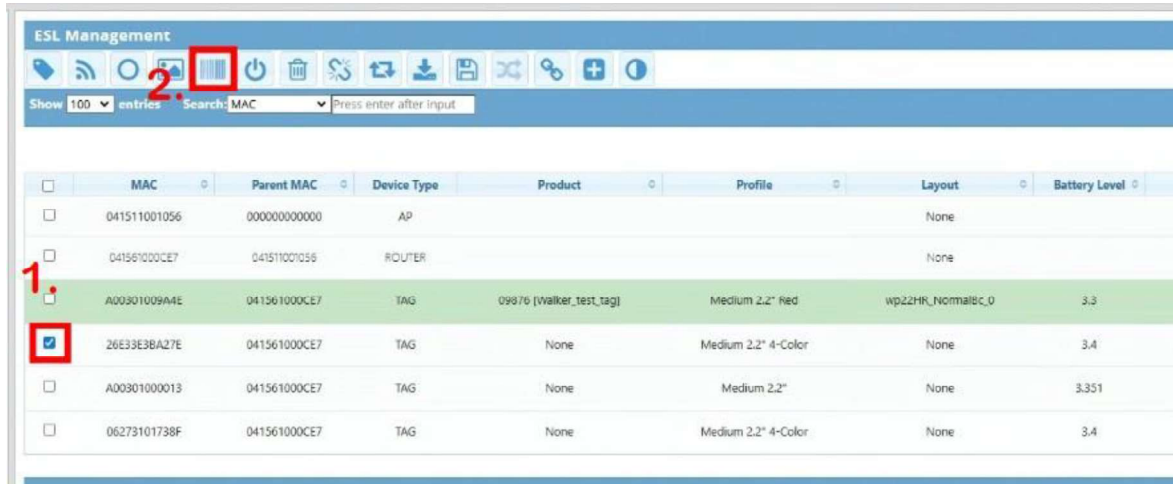
How to Display FCC ID Label(After certification, display it on the "Pairing Page")

- Wake Up the Tag:** Ensure the EPD is not blank or shows a "sleep mark" (red/black square in the top-left corner).
 - If "sleep mark" present, please activate wake-up mode from ELSA WEB until ED removes the "sleep mark."



Active wake-up mode from ELSA web

- Switch Screens:** Switch the EPD display to the "Pairing Page"
 - Select the ED from ELSA WEB, then click the "Show Barcode" button.



- The ED will be preset to display the "Pairing Page" upon shipment.



2.2" ESL FCC ID display results

Battery Caution:

The elements of the **instructional safeguard** shall be as follows:

- element 1a: not available
- element 2: "Do not ingest battery, Chemical Burn Hazard" or equivalent wording
- element 3: the following or equivalent text
[The remote control supplied with] This product contains a coin / button cell battery. If the coin / button cell battery is swallowed, it can cause severe internal burns in just 2 hours and can lead to death.
- element 4: the following or equivalent text
Keep new and used batteries away from children
If the battery compartment does not close securely, stop using the product and keep it away from children.
If you think batteries might have been swallowed or placed inside any part of the body, seek immediate medical attention.

FCC Statement:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

NOTE: This equipment has been tested and found to comply with the limits for a Class B 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.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 cm between the radiator and a human body.

NCC Statement:

低功率射頻器材技術規範

取得審驗證明之低功率射頻器材，非經核准，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。低功率射頻器材之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。前述合法通信，指依電信管理法規定作業之無線電通信。低功率射頻器材須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

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