ADVANTECH
Embedded
Design-In Forum

ePaper Introduction

AE Homer Wang

Agenda

Outline

EPD Solution Architecture

ePaper Display advantage

Advantech’s EPD solution

EPD-230,EPD-332 Network Topology

Set up steps

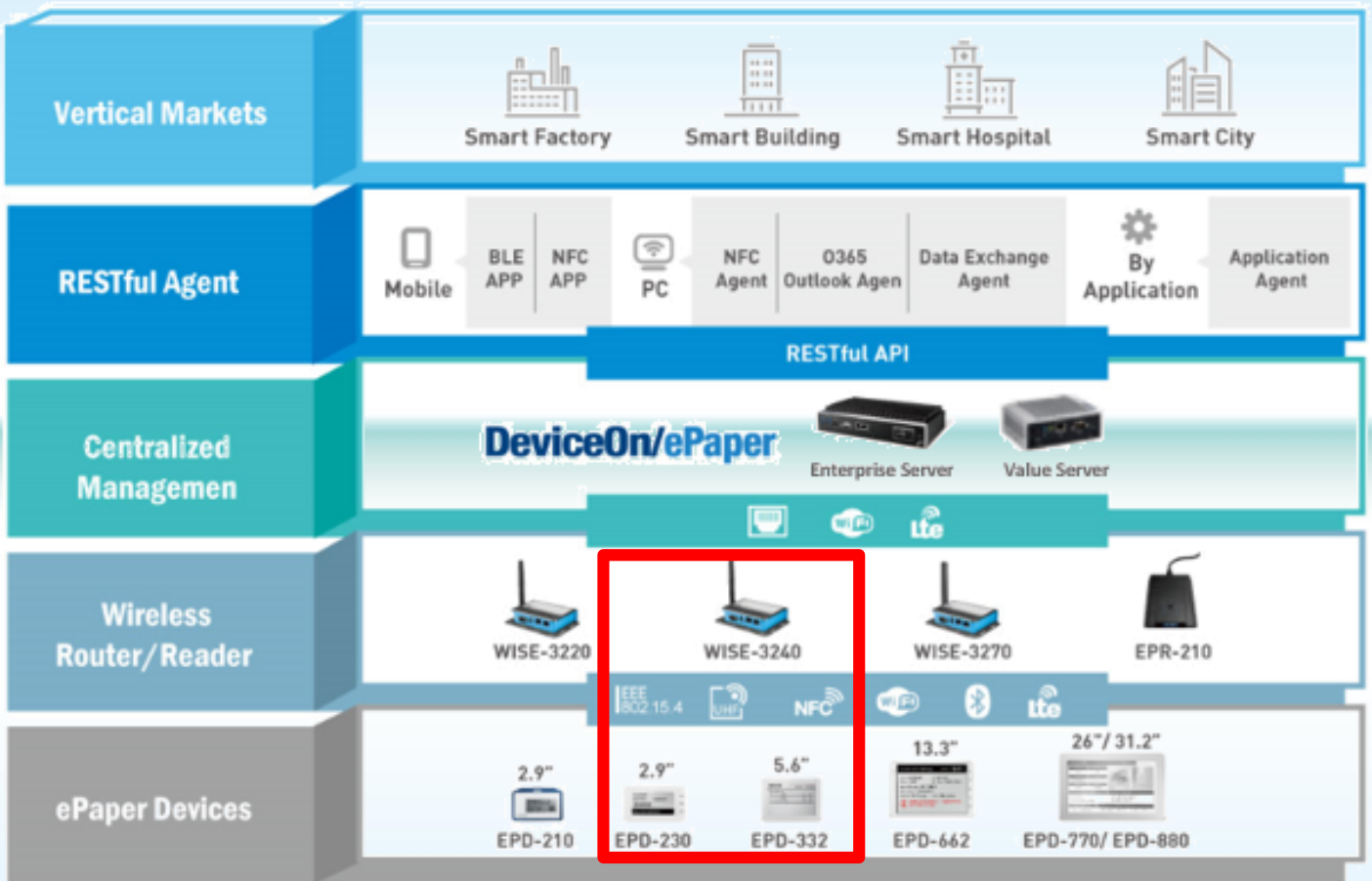
ePaper Solution Suites Powered by DeviceOn/ePaper

Accelerating Your ePaper Implementation with Centralized Management

Inventory Management | Production Cart | Clinic Information Board | Bedside Card | Instruction Signage | Scheduling Card | Bus Stop | Smart Lighting

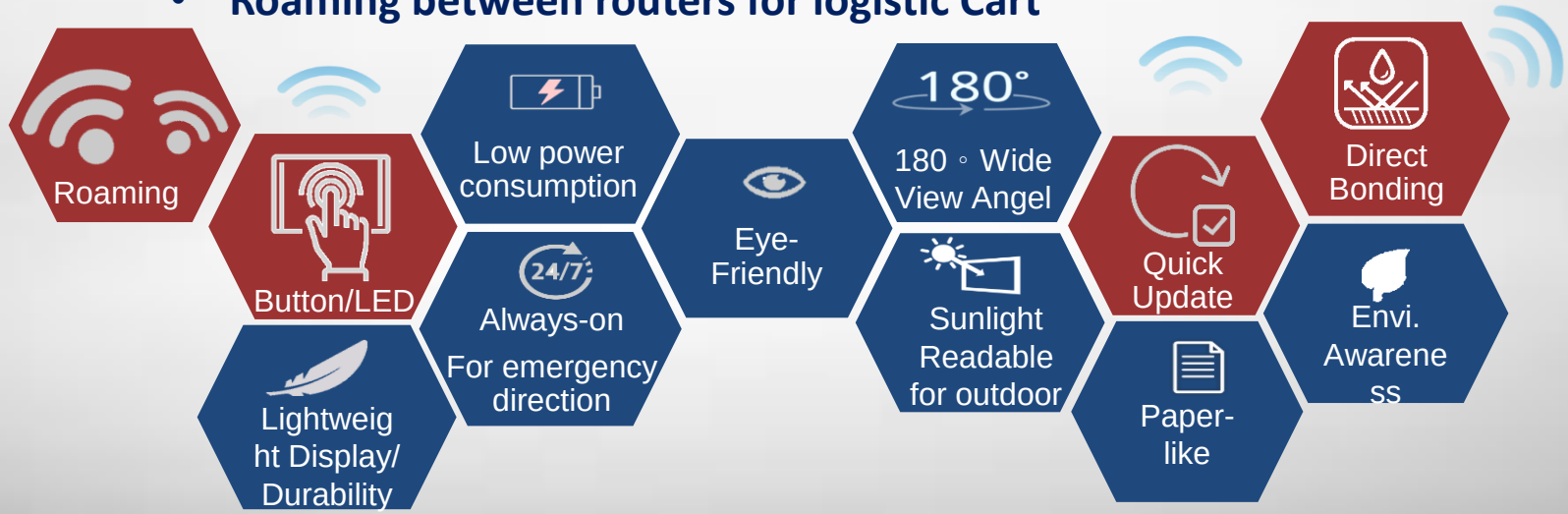
Smart Factory | **Smart Hospital** | **Smart Building** | **Smart City**

EPD Solution Suite Architecture

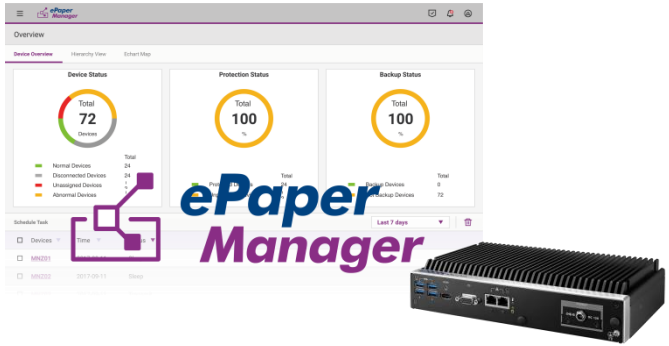


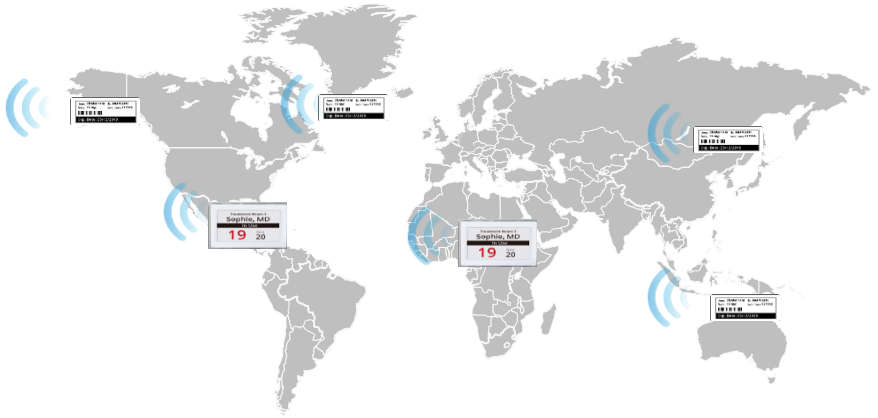
Advantech Wireless EPD Series Solution

- **Strong Protection via IK and IP Mechanical Design**
- **Direct Bond to avoid the moisture and refraction**
- **Provide latest Instruction and warning to field operator**
- **Multi-button, LED and Page for more interaction**
- **Roaming between routers for logistic Cart**



Content Management Software





Device Management

- Device monitoring
- Tag battery alert
- Tag status report
- Remote control

Image Generator

- Generate image file(full and partial) and preview
- Image file transform to system format and zip
- Provide API for tag image update

Account Management

- Account role
- Permission for account and role/group

Service Management

- FTP: FW/image to device
- Execute action e.g. tag image update: schedule/image generating

ADVANTECH

EPD-230,332 Network Topology

Switch

WISE-3240

WISE-3240

EPD-230

EPD-332

ADVANTECH

Enabling an Intelligent Planet

“Set up DeviceOn/ePaper”

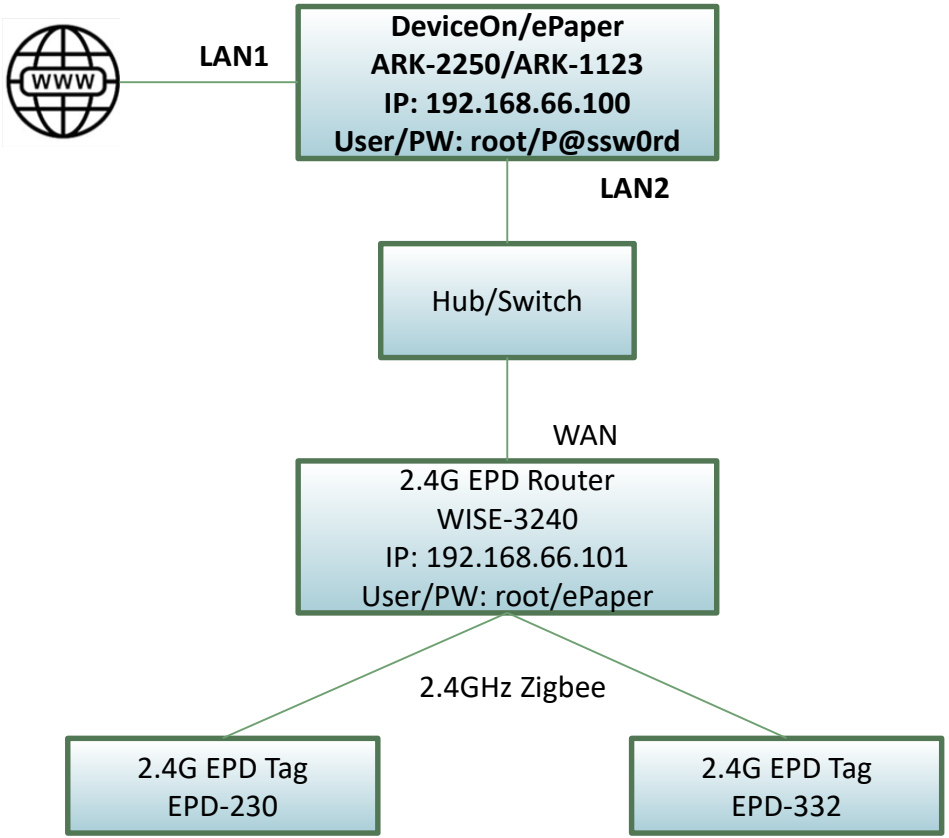
Agenda

- **Preparation**
  - Hardware Equipment
  - Network Architecture
- **Tag Devices Deployment**
  - EPD system setting
- **Image Generation**
  - Template generation
  - Data Binding
- **Refresh Tag Devices**
  - Image Refresh /Transmit (Device,Group)
- **Firmware upgrade**
- **Resful API & SampleCode**

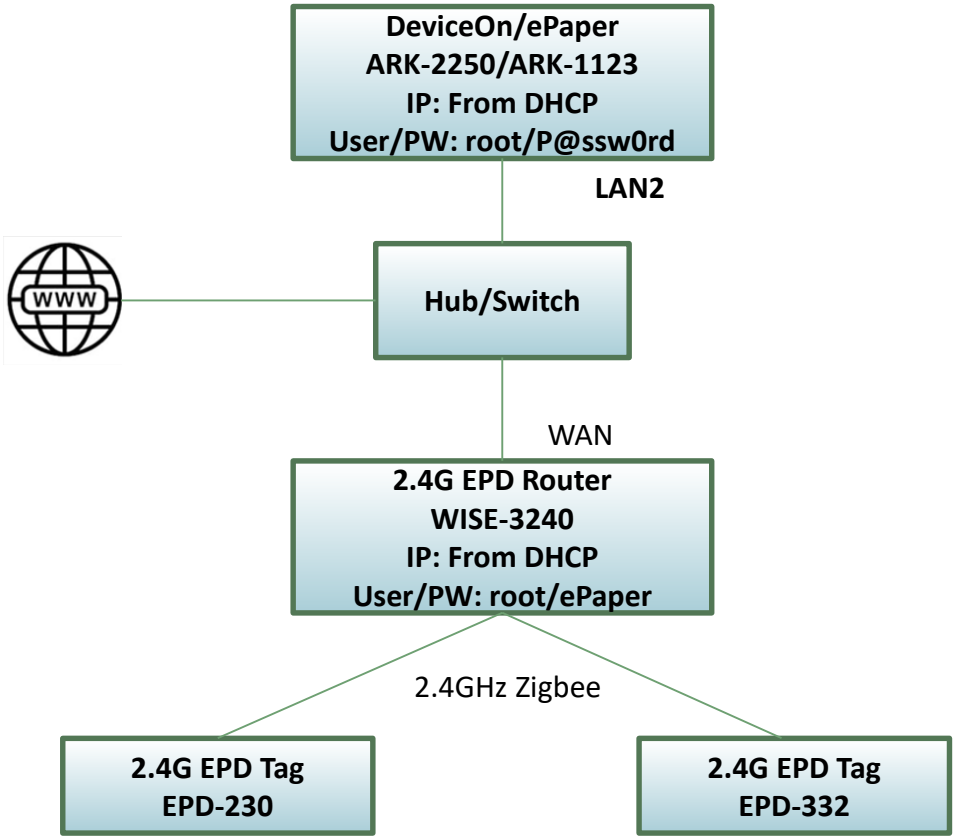
Preparation- Hardware Equipment

- EPD-230 x1, EPD-332 x1
- WISE-3240
- ARK-1123H ePaper Manager Server x1
- WiFi Hub x1

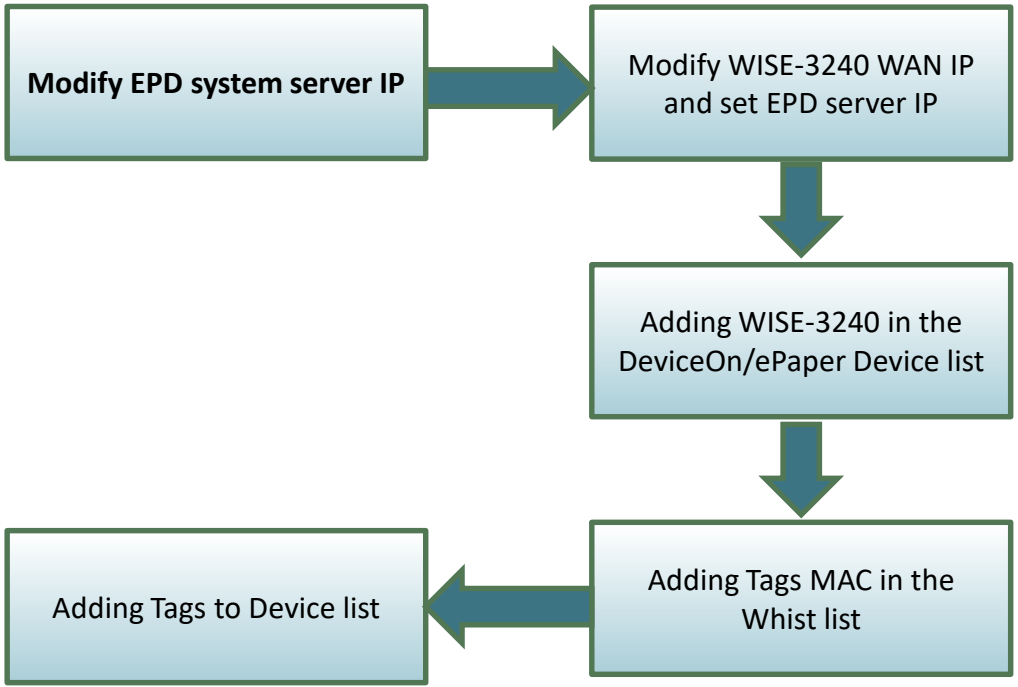
EPD DemoKit's Network Architecture1



EPD DemoKit's Network Architecture2

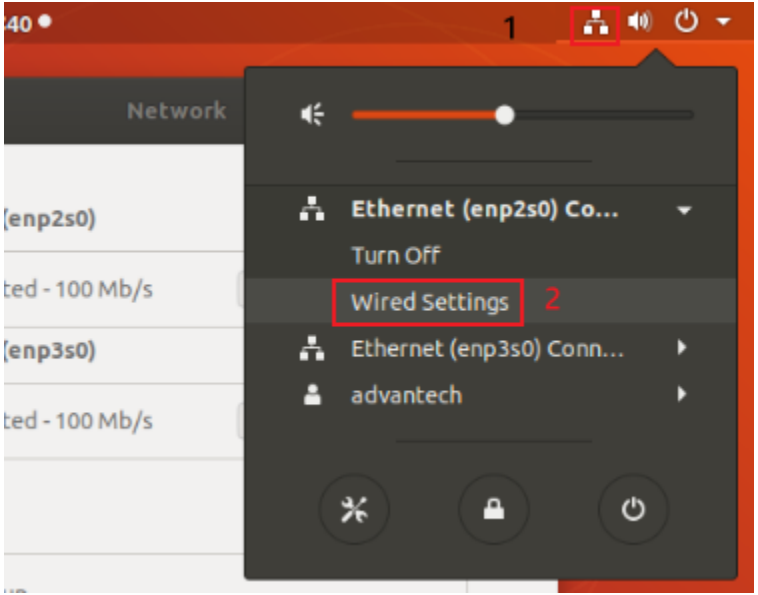


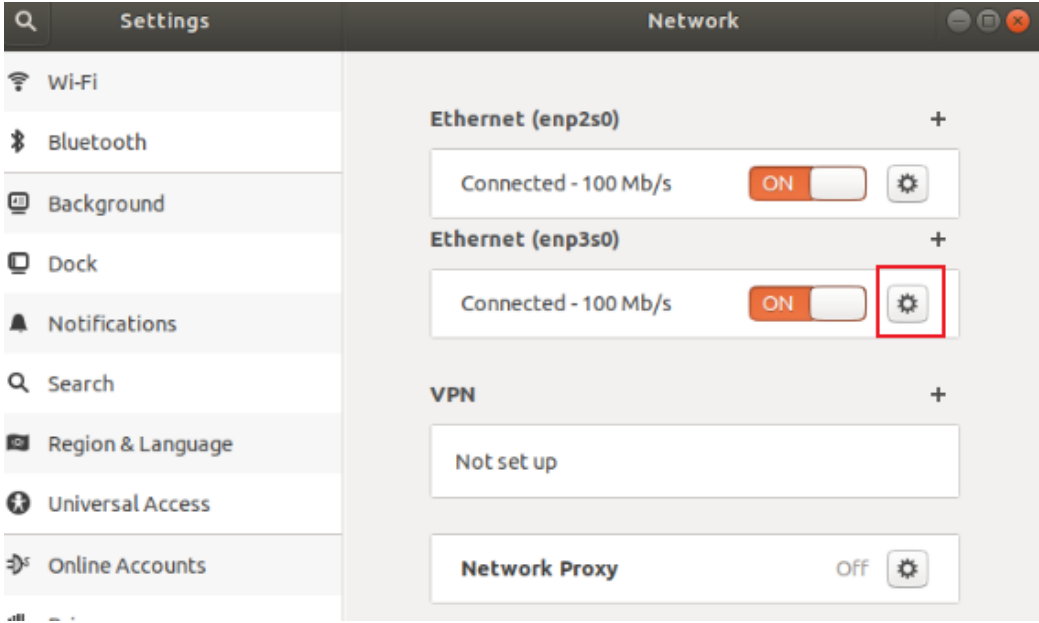
EPD System setting workflow



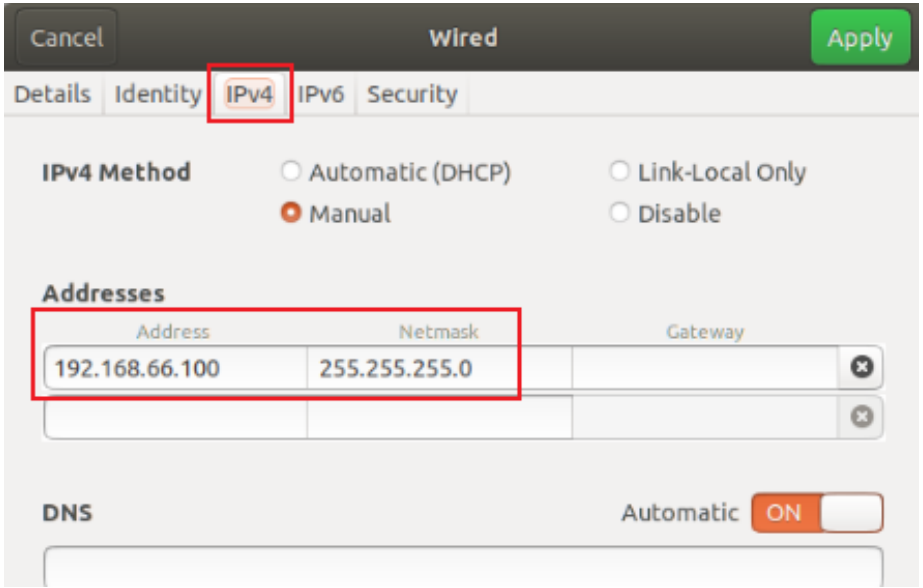
EPD system IP setting

Account: advantech
Password: P@ssw0rd

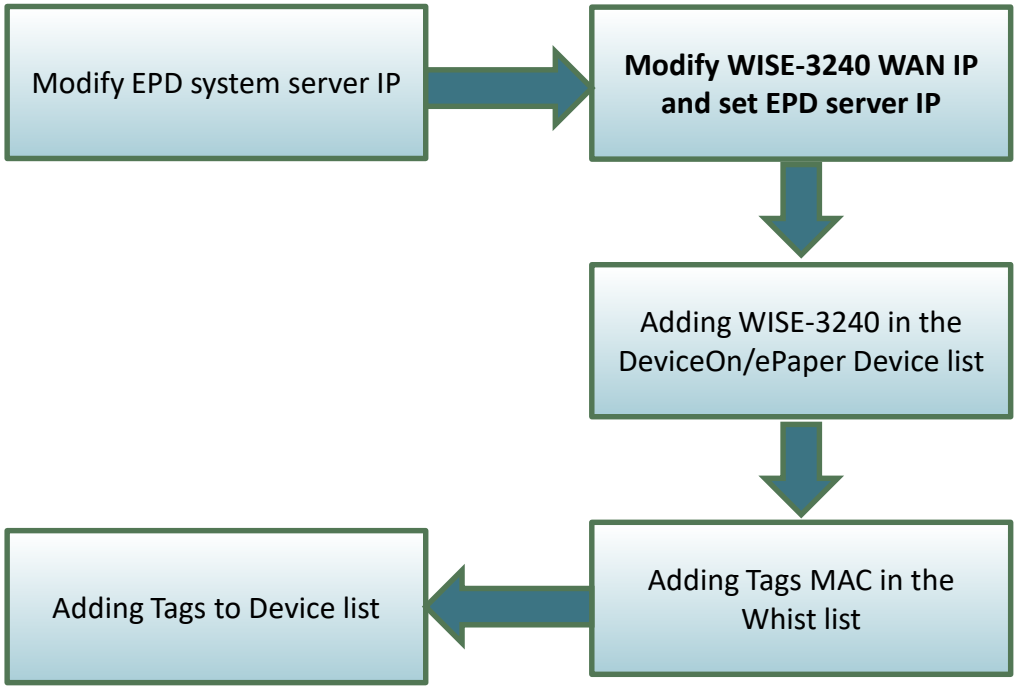




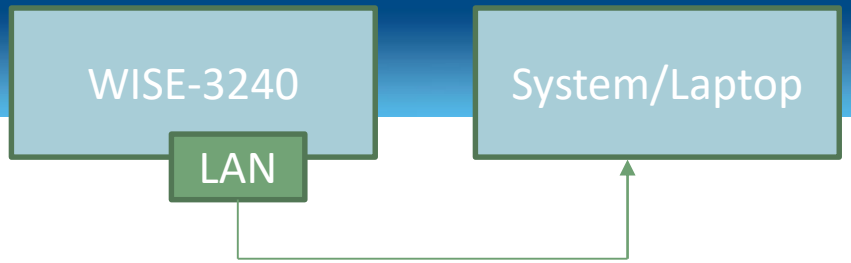
EPD system IP setting



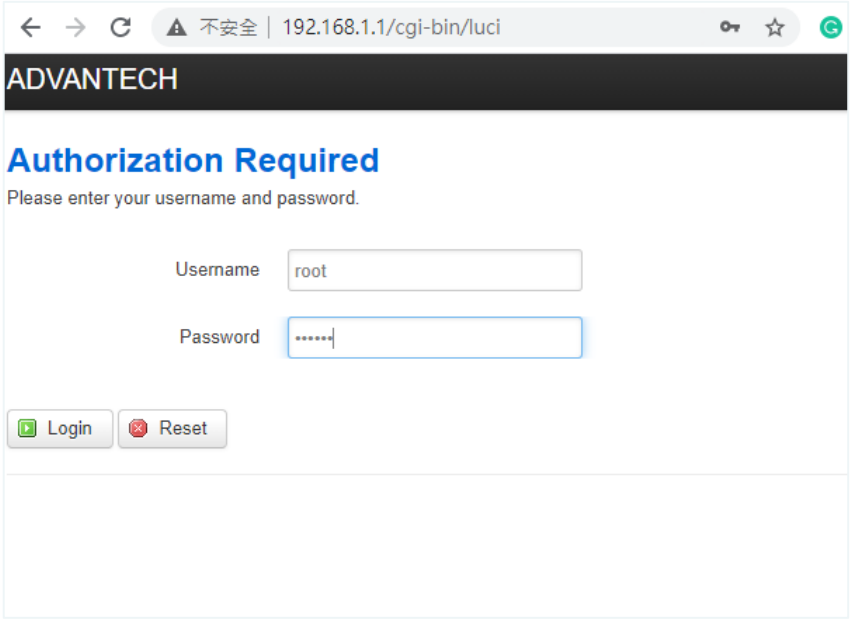
EPD System setting workflow

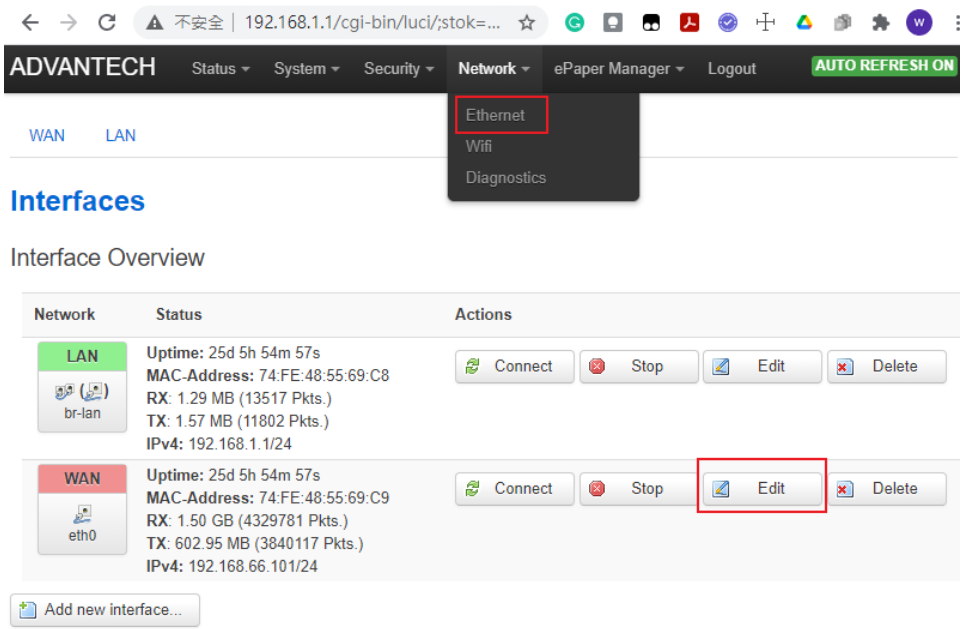


Login WISE-3240

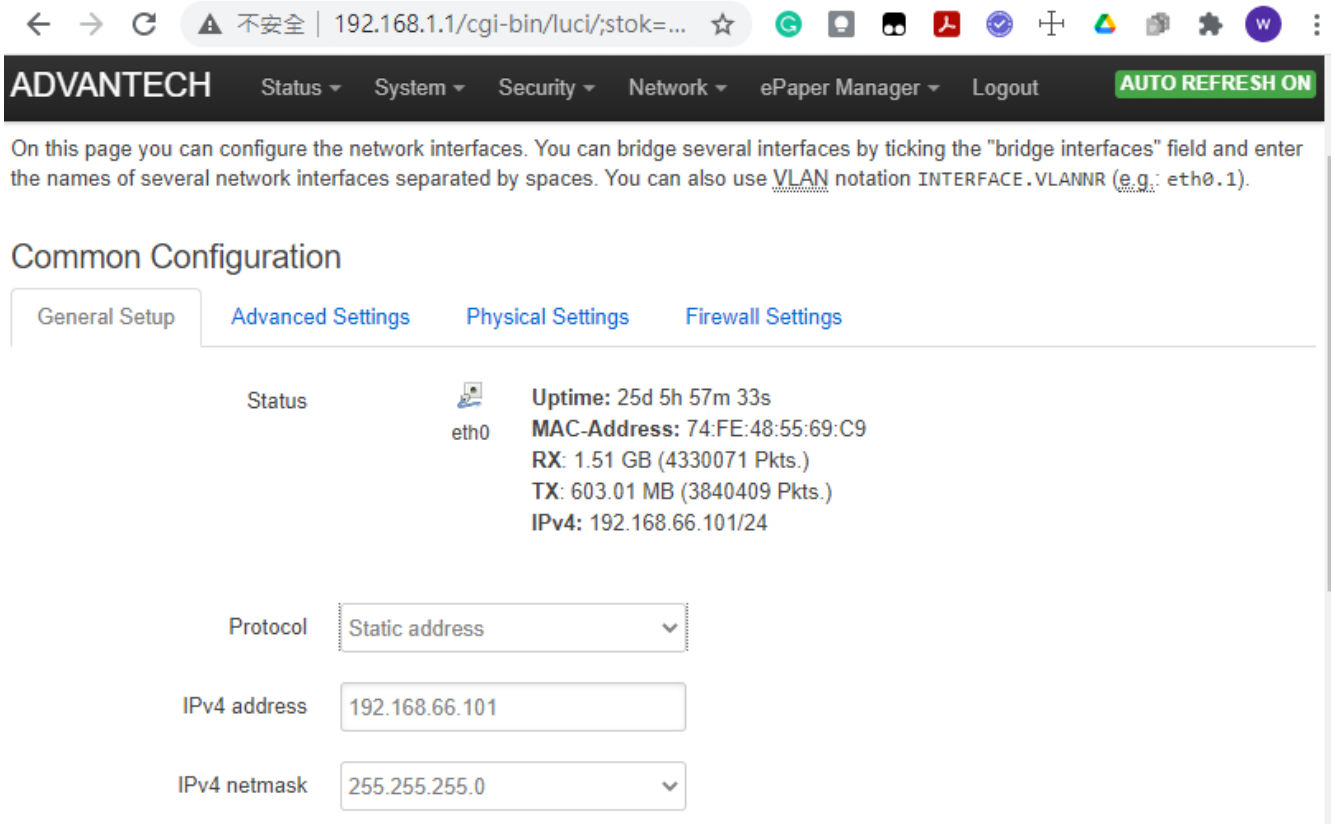


IP: 192.168.1.1
Account: root
Password: ePaper

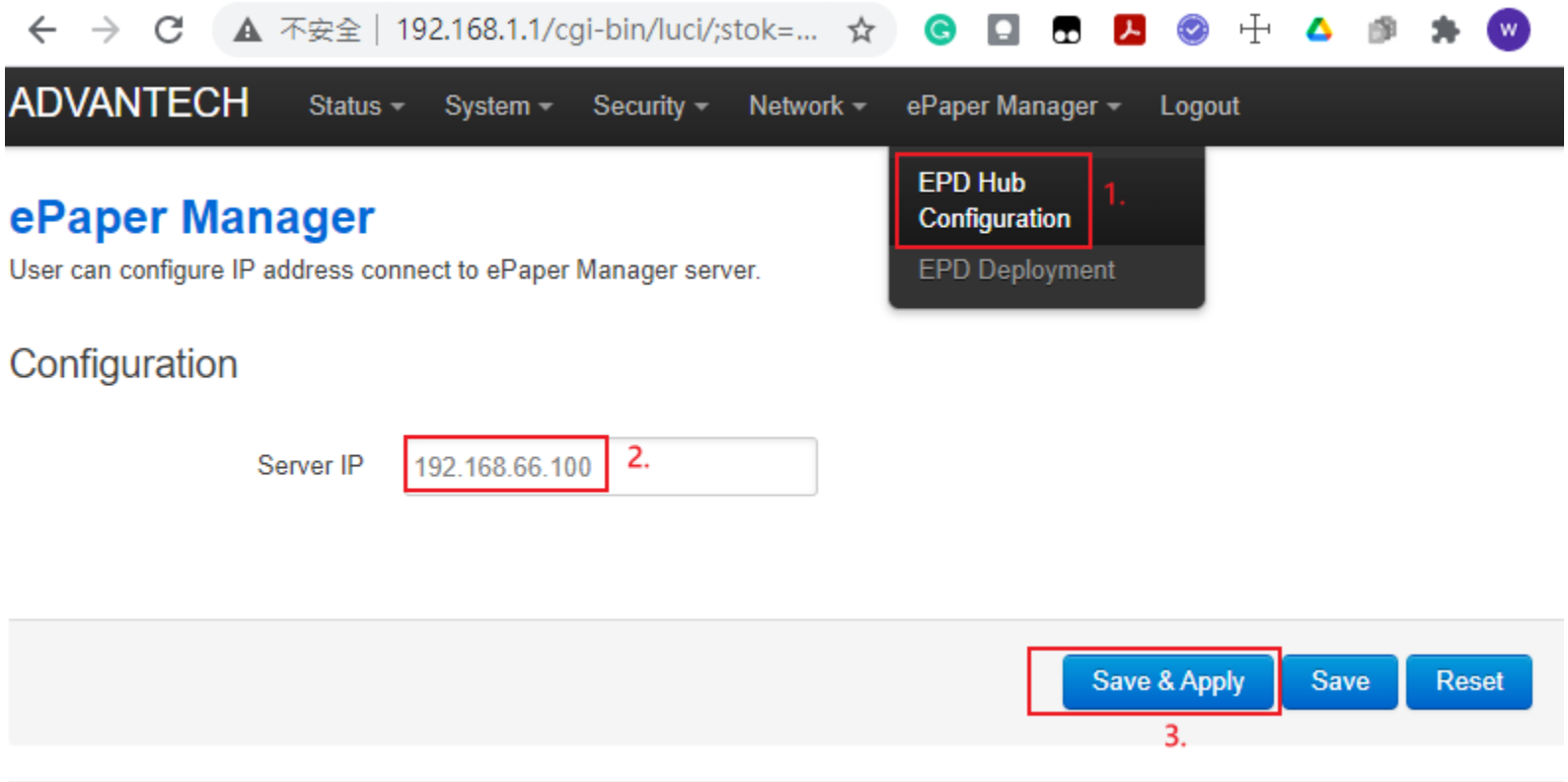




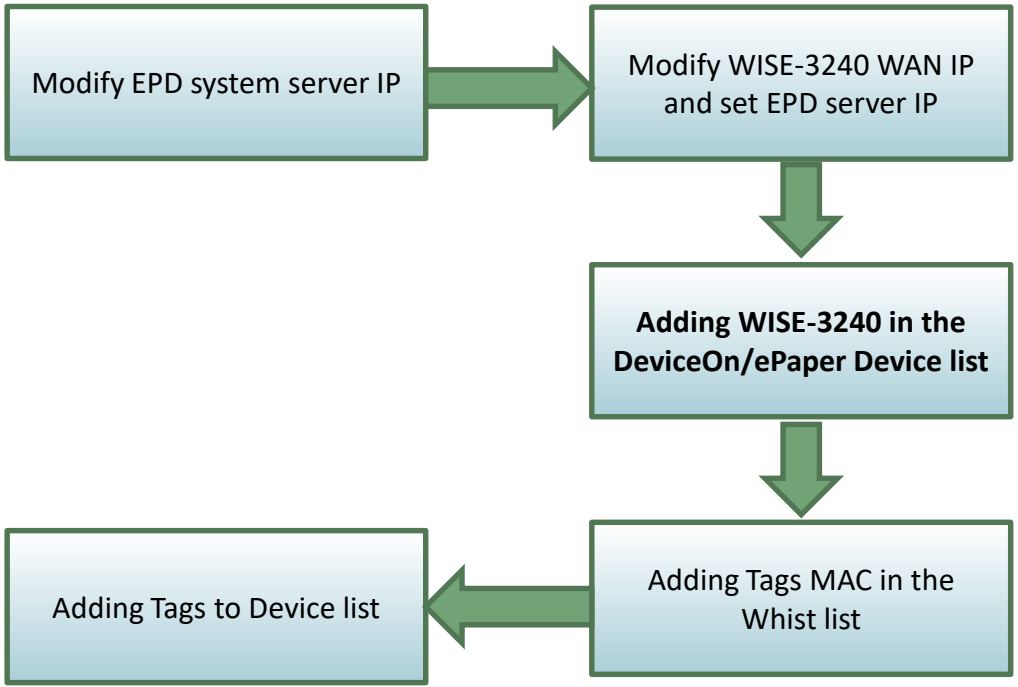
WISE-3240 WAN Port setting



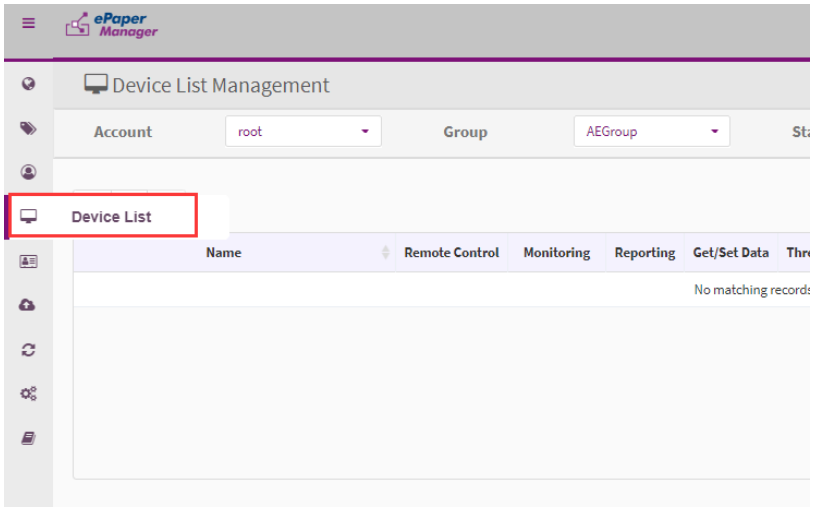
Set ePaper Manager server IP

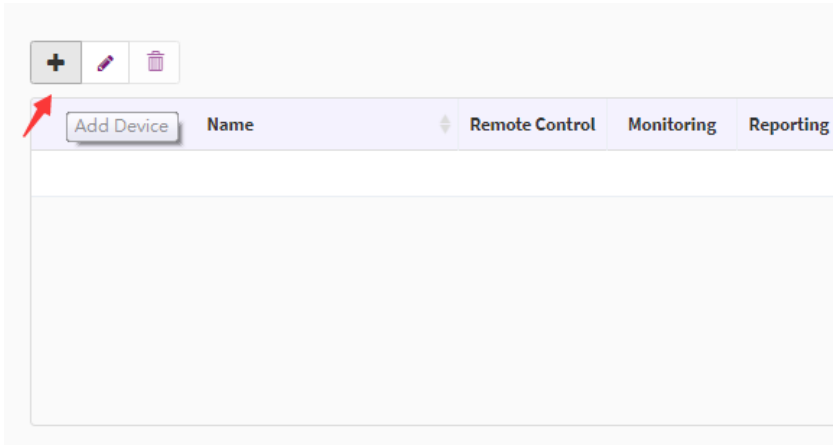


EPD System setting workflow

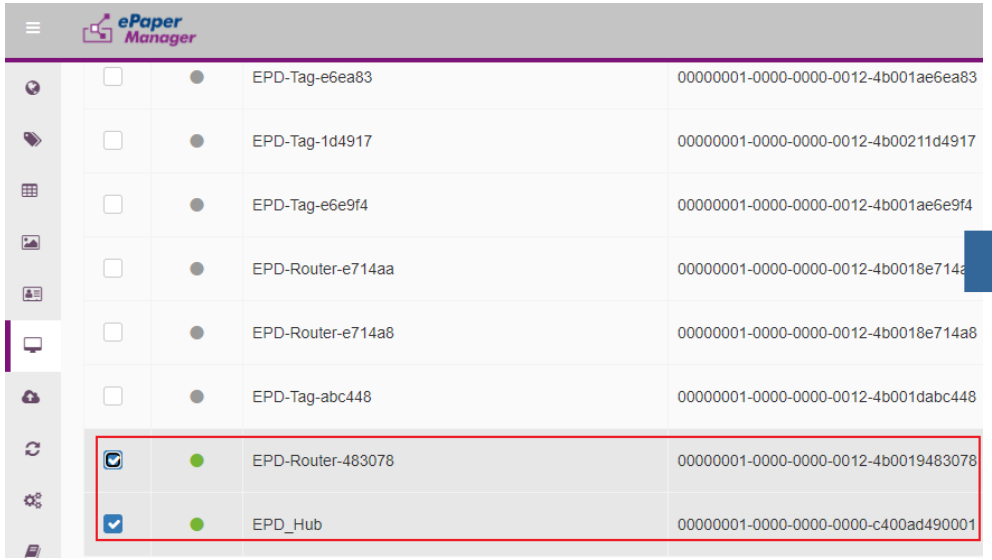


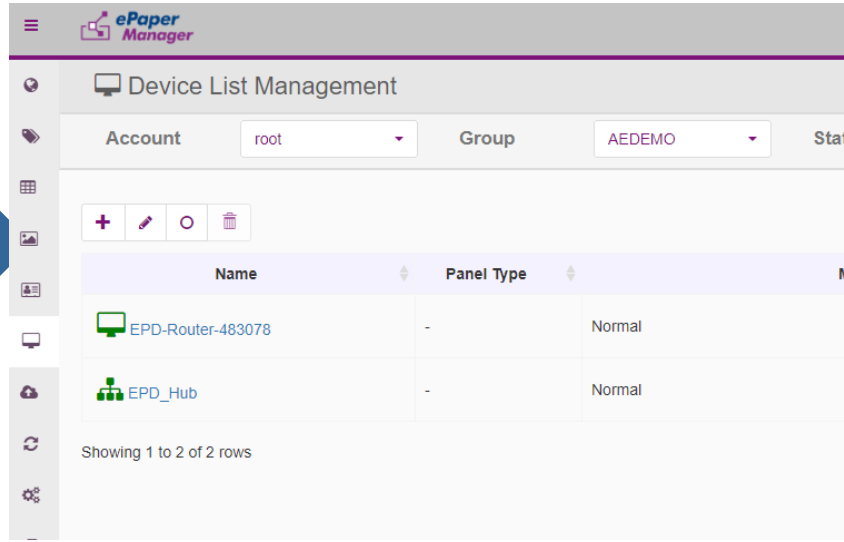
Router Devices Deployment- Add Router



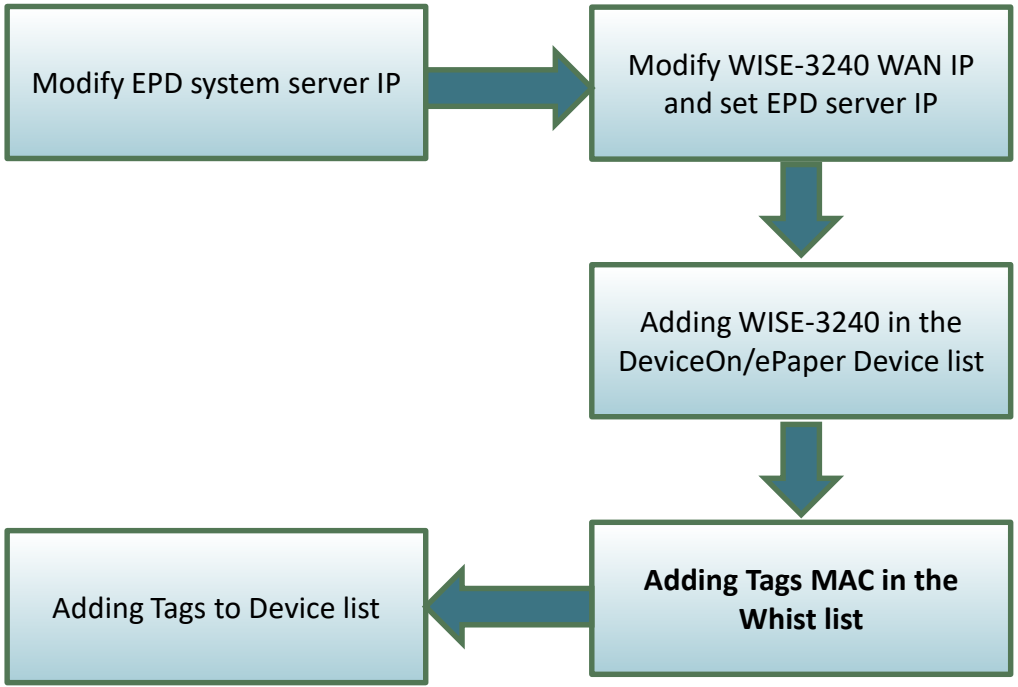


Router Devices Deployment- Add Router



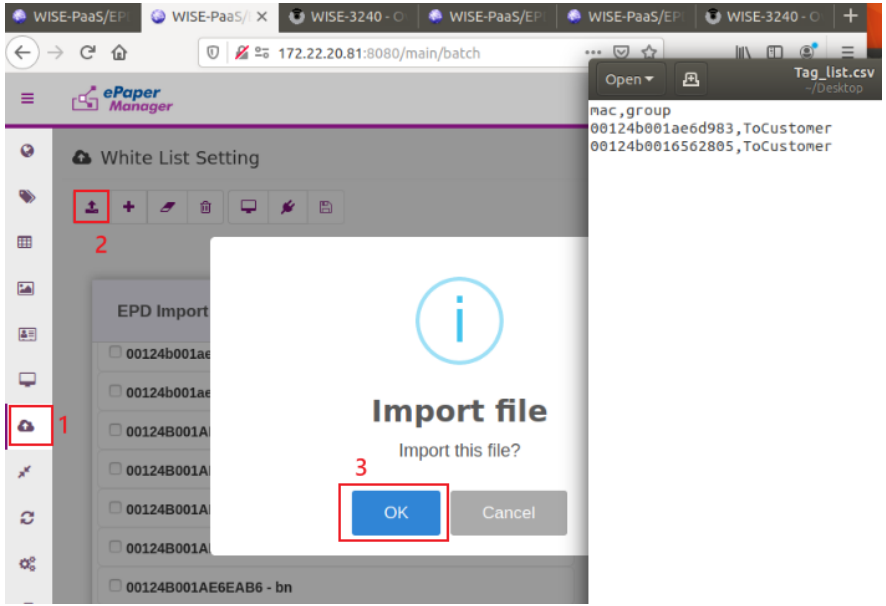


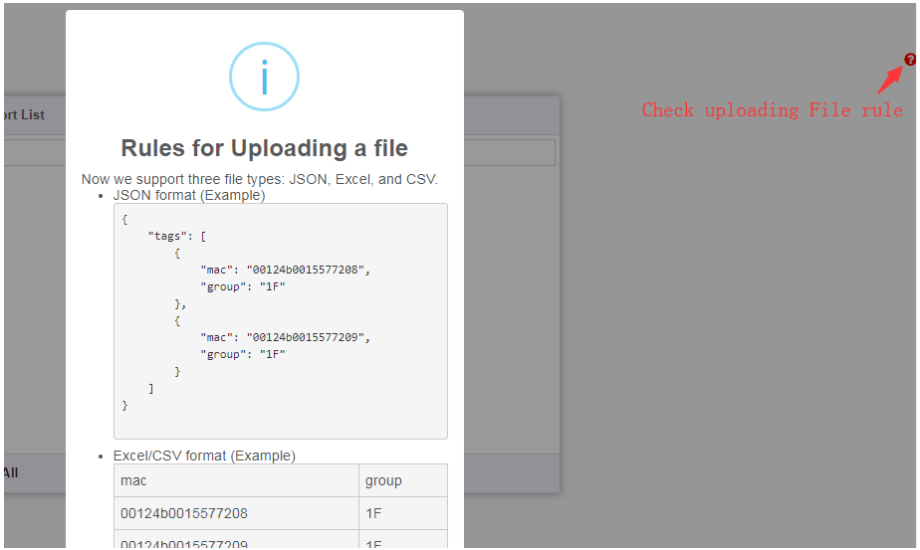
EPD System setting workflow



White List Setting (EPD-023/EPD-053)

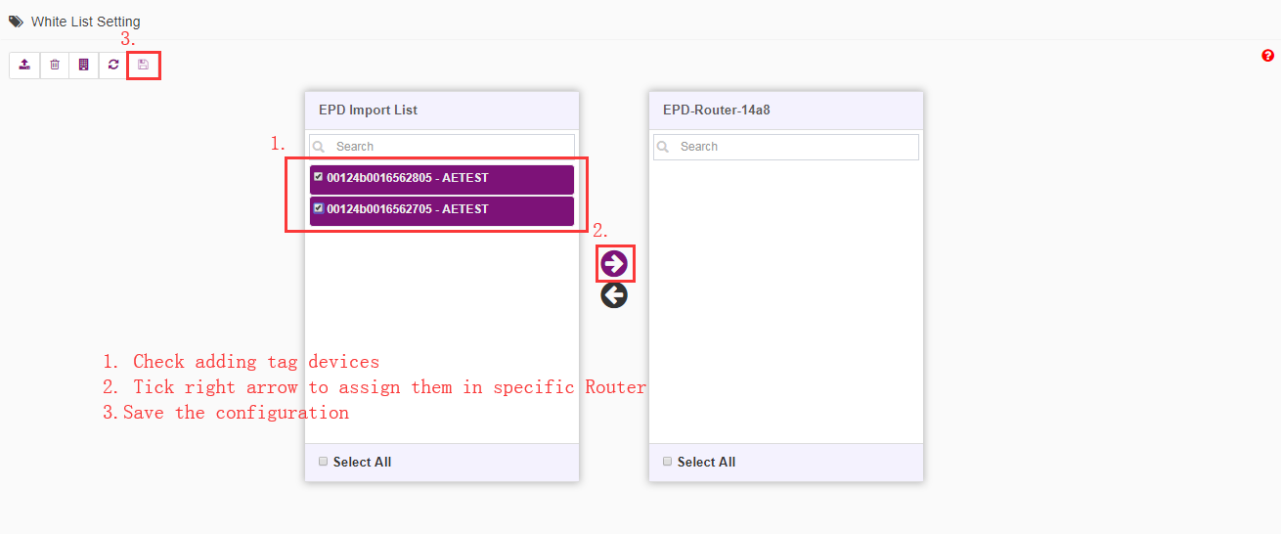
- Import adding tag devices with unique mac address
- File format can be generated by json and CSV file



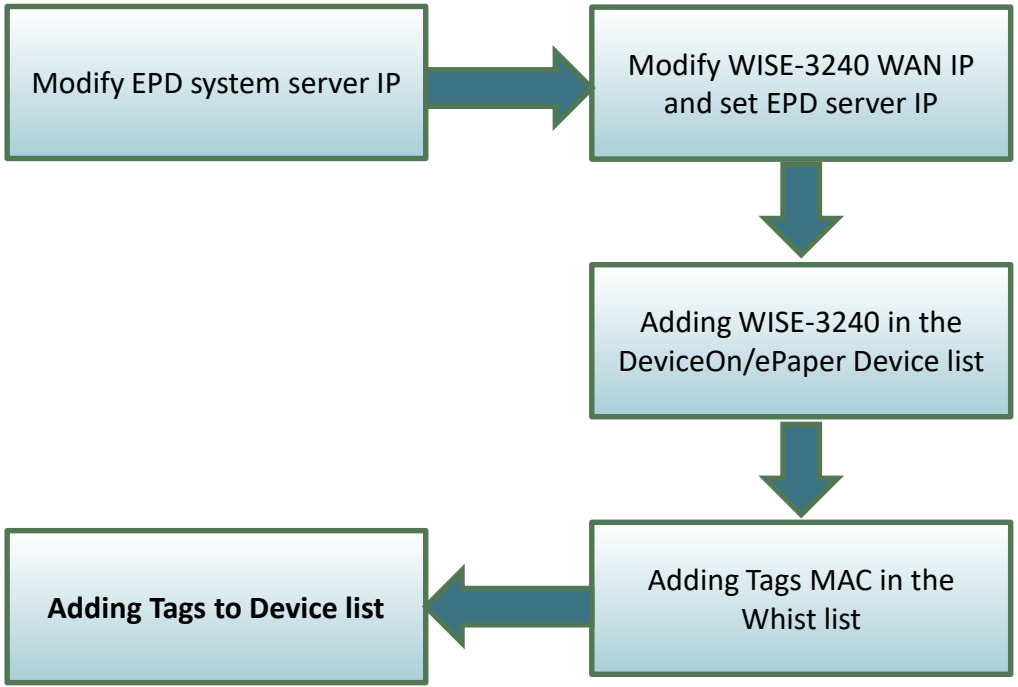


White List Setting (EPD-023/EPD-053)

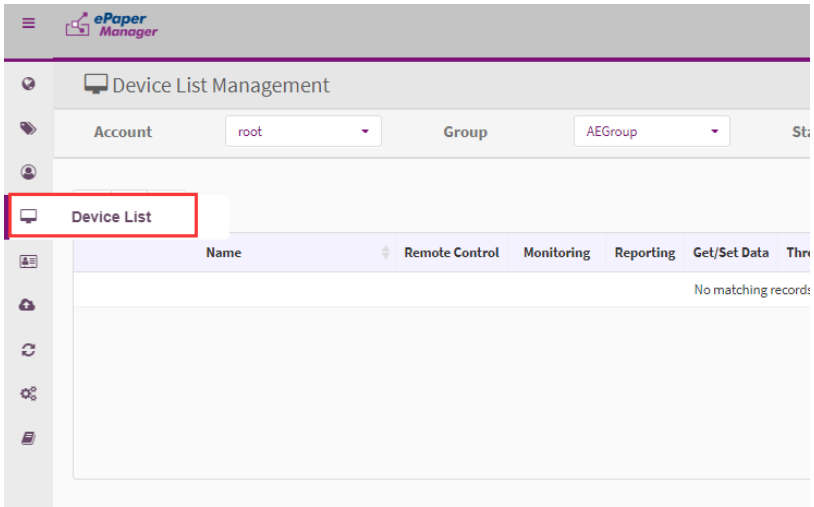
- Import adding tag devices with unique mac address
- File can be generated by json and CSV format
- Assign tag devices to specific Router

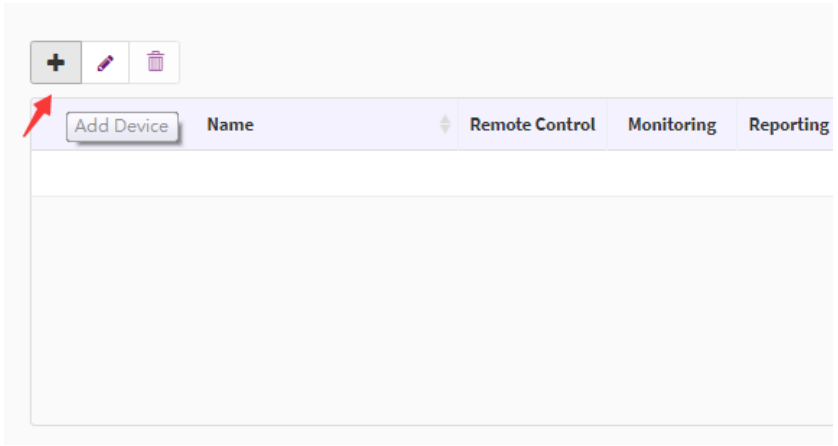


EPD System setting workflow

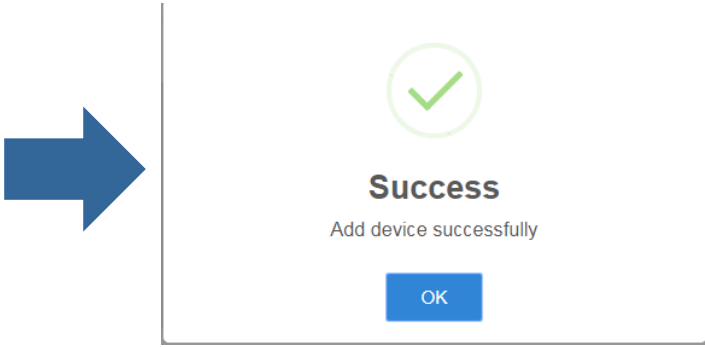


Tag Devices Deployment- Add tag devices

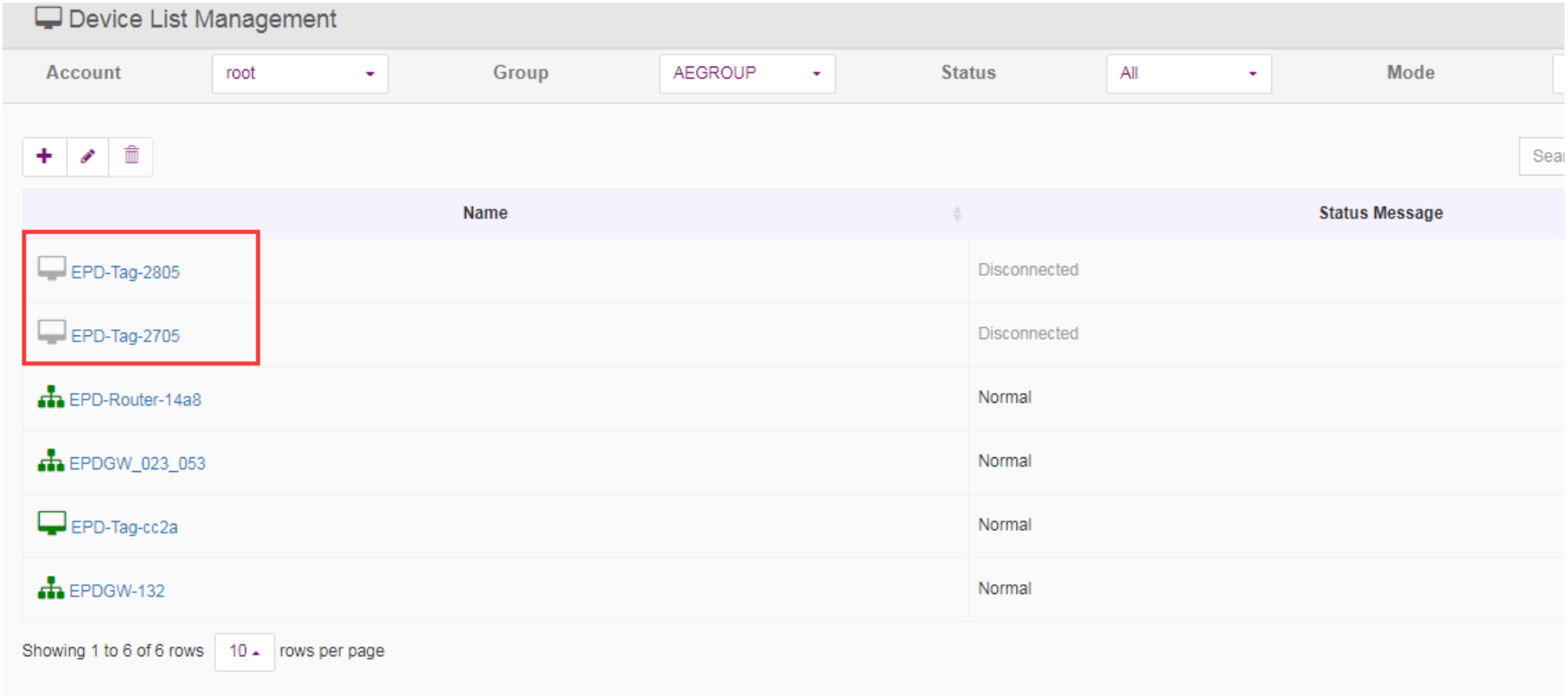




Add tag devices (EPD-023/EPD-053+WISE-3240)



Device List


Device List Management
Account
root
Group
AEGROUP
Status
All
Mode
Name
Status Message
EPD-Tag-2805
Disconnected
EPD-Tag-2705
Disconnected
EPD-Router-14a8
Normal
EPDGW_023_053
Normal
EPD-Tag-cc2a
Normal
EPDGW-132
Normal
Showing 1 to 6 of 6 rows
10
rows per page

Device List (EPD-023/EPD-053)

- the icon light of tag devices will change from gray to green after few seconds

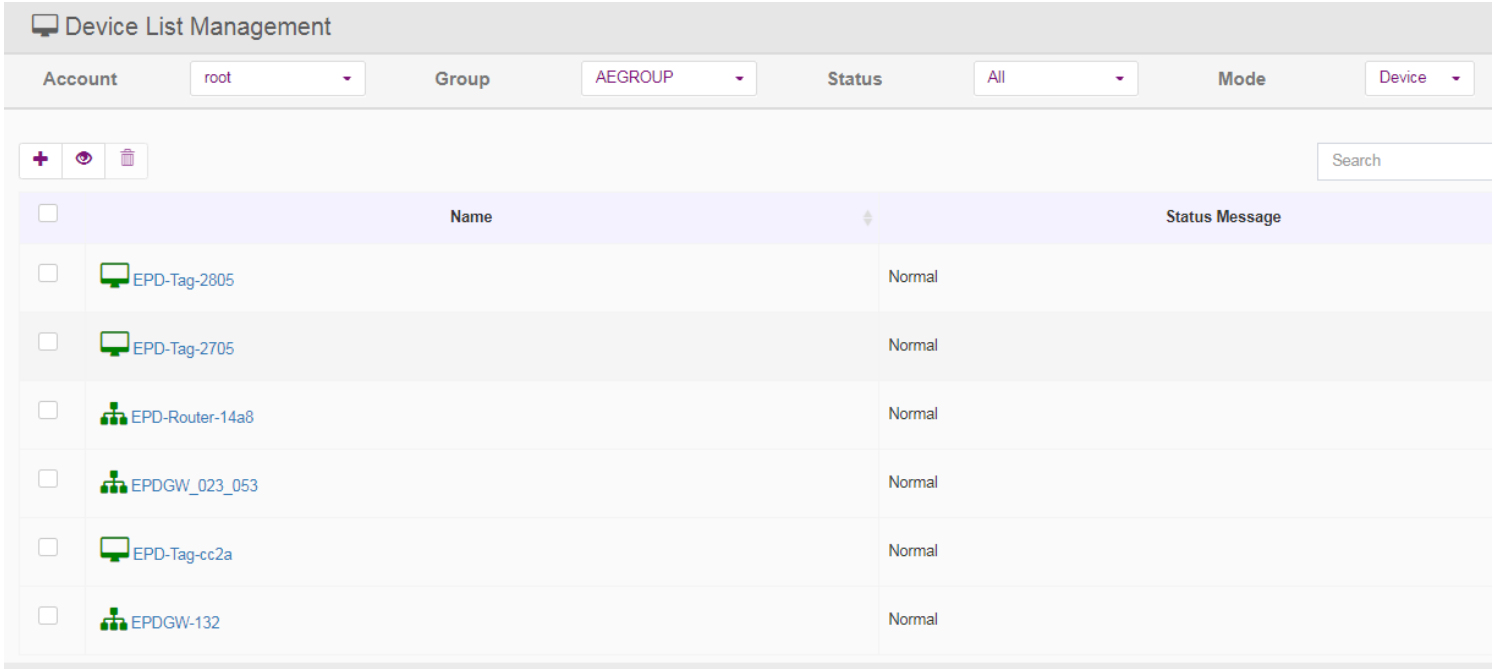
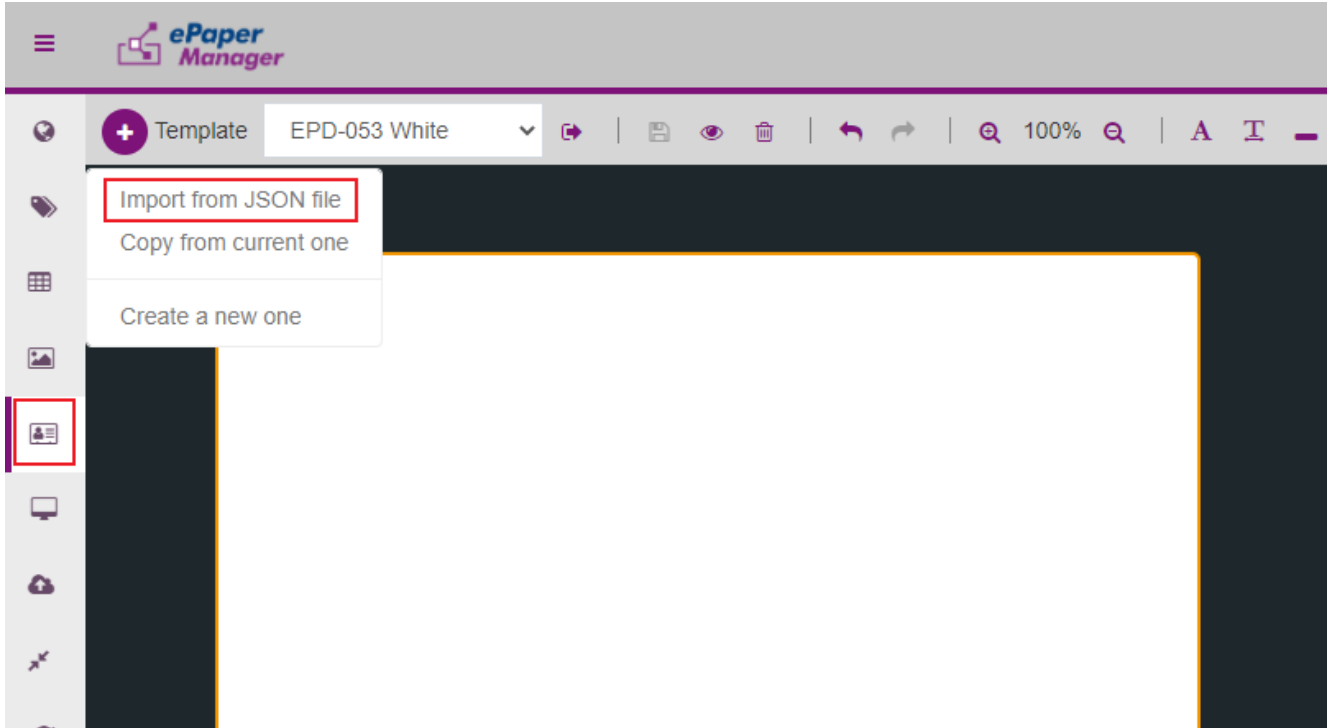
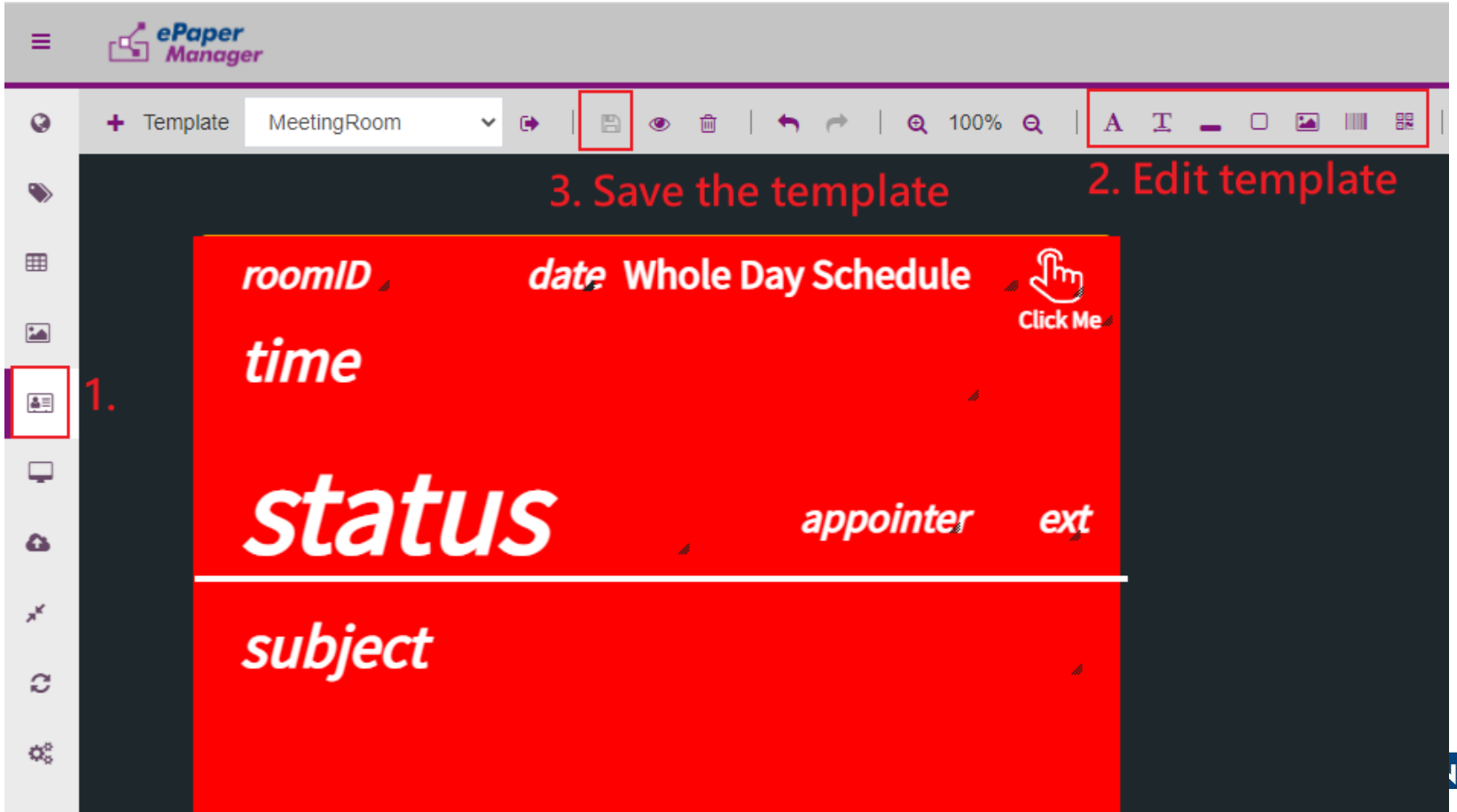


Image Generation- Template Generation

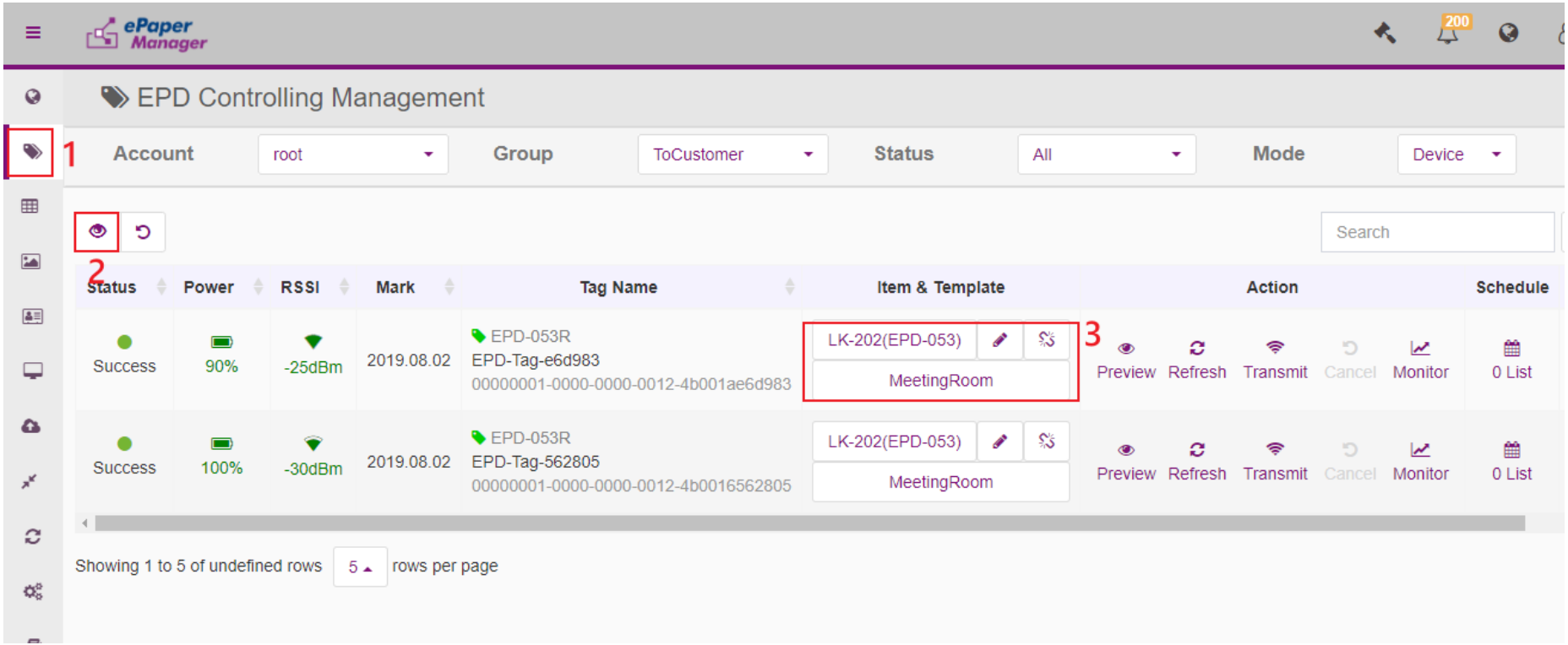
- Import existed template from JSON file
- File can be generated by json and CSV format



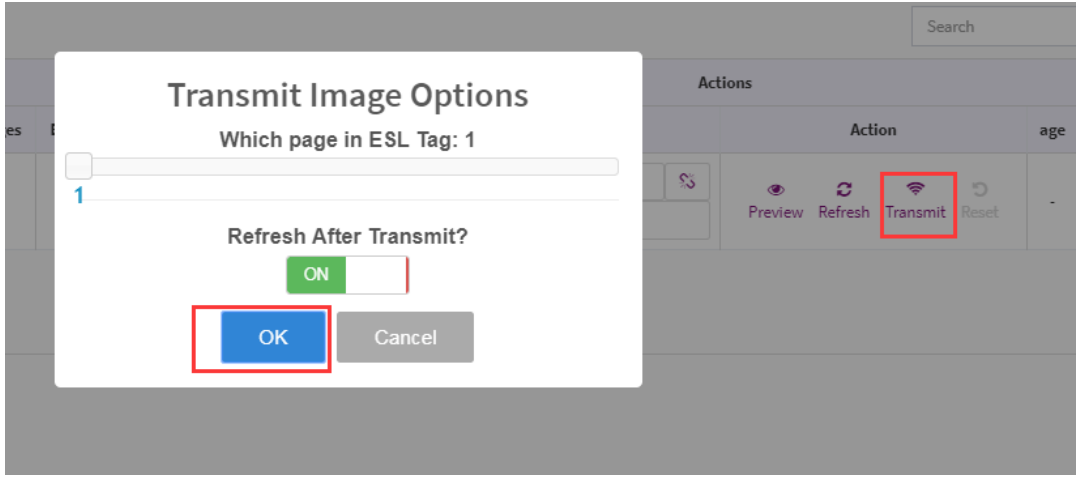
Template Generation

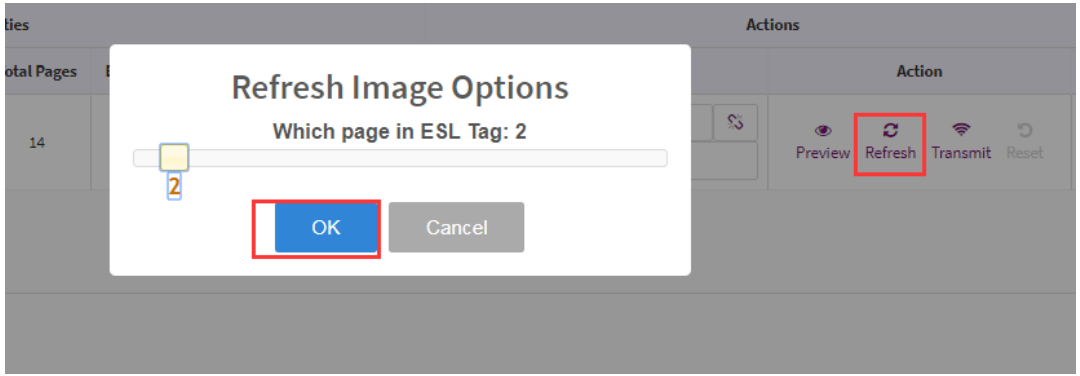


Data Binding



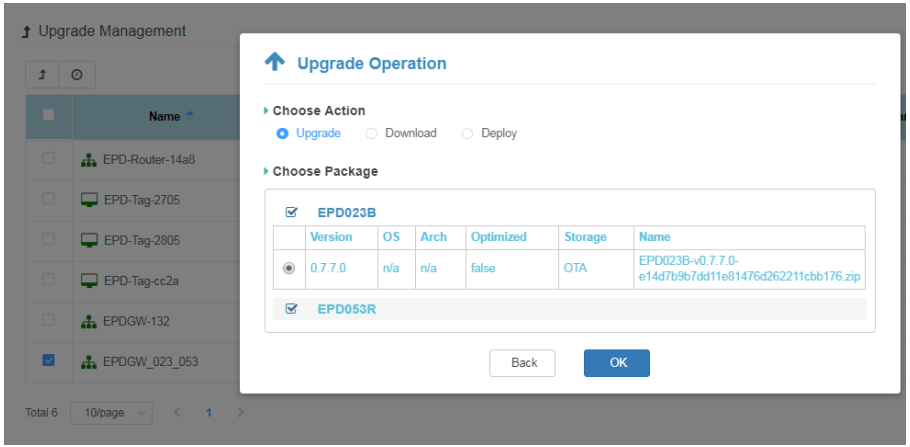
Refresh Tag Device- Image Refresh & Transmit

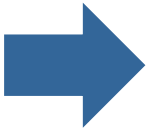


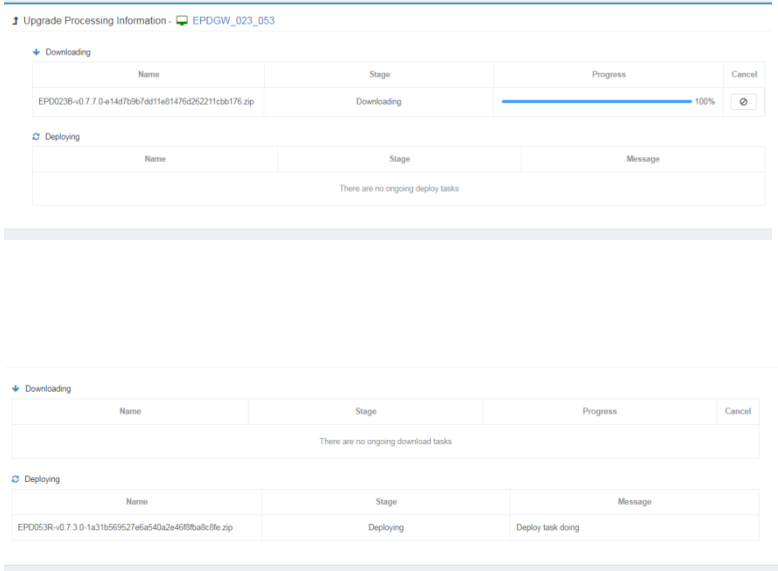


ADVANTECH

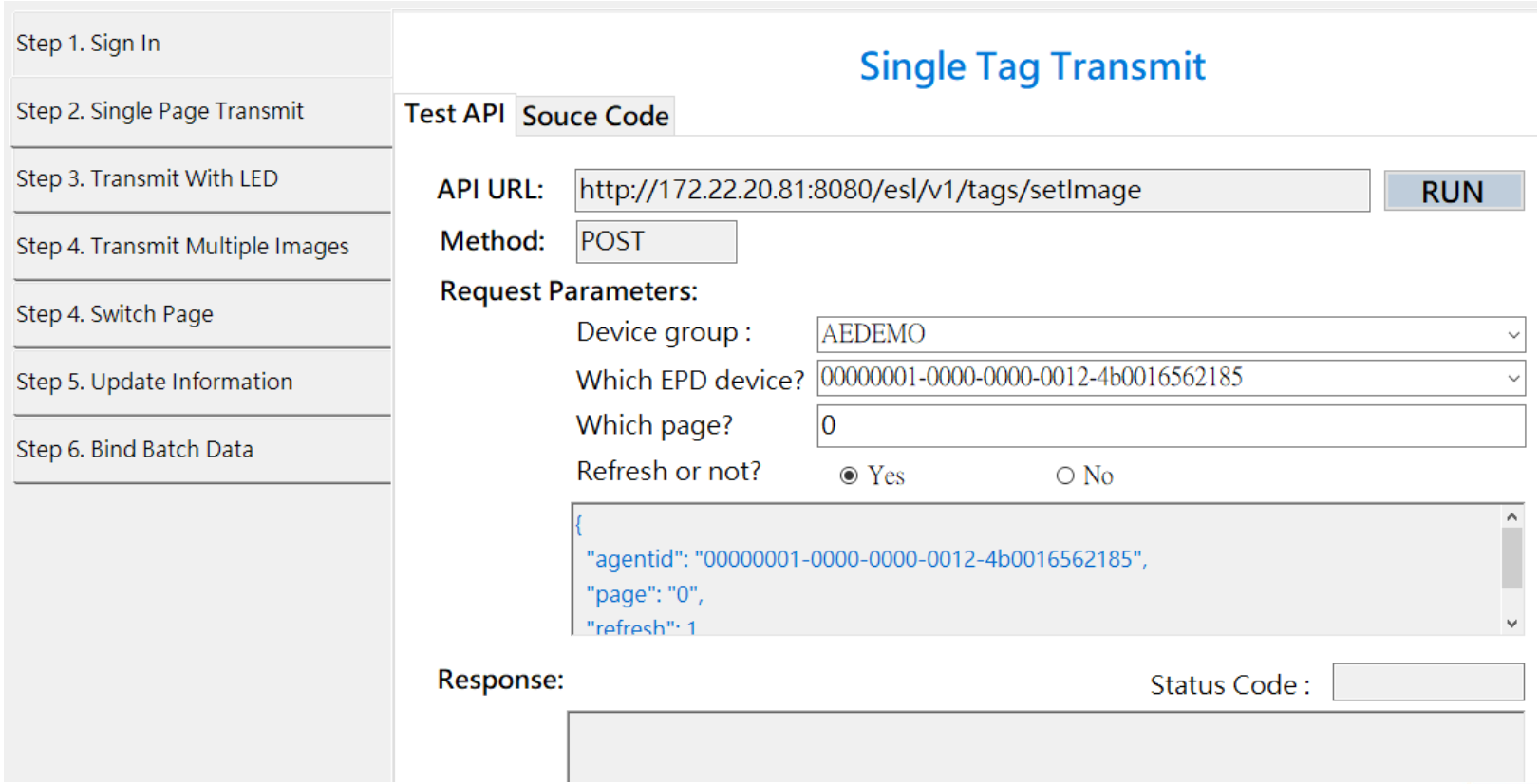
Firmware Upgrade- OTA







Resful API & SampleCode



Go Together,

We Go Far and Grow Big