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Operating Instructions

ABB-Welcome IP

IP gateway

H8301



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1 Notes on the instruction manual

Please read through this manual carefully and observe the information it contains. This will assist you in preventing injuries and damage to property, and ensure both reliable operation and a long service life for the device.

Please keep this manual in a safe place.

If you pass the device on, also pass on this manual along with it.

ABB accepts no liability for any failure to observe the instructions in this manual.

2 Safety



Warning

Electric voltage!

Dangerous currents flow through the body when coming into direct or indirect contact with live components.

This can result in electric shock, burns or even death.

- Disconnect the mains power supply prior to installation and/or disassembly!
- Permit work on the 110-240 V supply system to be performed only by specialist staff!

3 Intended use

This device is used for door communication and video transmission. It makes communication possible between the ABB-Welcome IP door communication and the local IP network.

4 Environment



Consider the protection of the environment!

Used electric and electronic devices must not be disposed of with household waste.

- The device contains valuable raw materials that can be recycled. Therefore, dispose of the device at the appropriate collecting facility.

4.1 ABB devices

All packaging materials and devices from ABB bear the markings and test seals for proper disposal. Always dispose of the packing materials and electric devices and their components via an authorized collection facility or disposal company.

ABB products meet the legal requirements, in particular the laws governing electronic and electrical devices and the REACH ordinance.

(EU-Directive 2002/96/EG WEEE and 2002/95/EG RoHS)

(EU-REACH ordinance and law for the implementation of the ordinance (EG) No.1907/2006)

5 Product description

5.1 Control elements

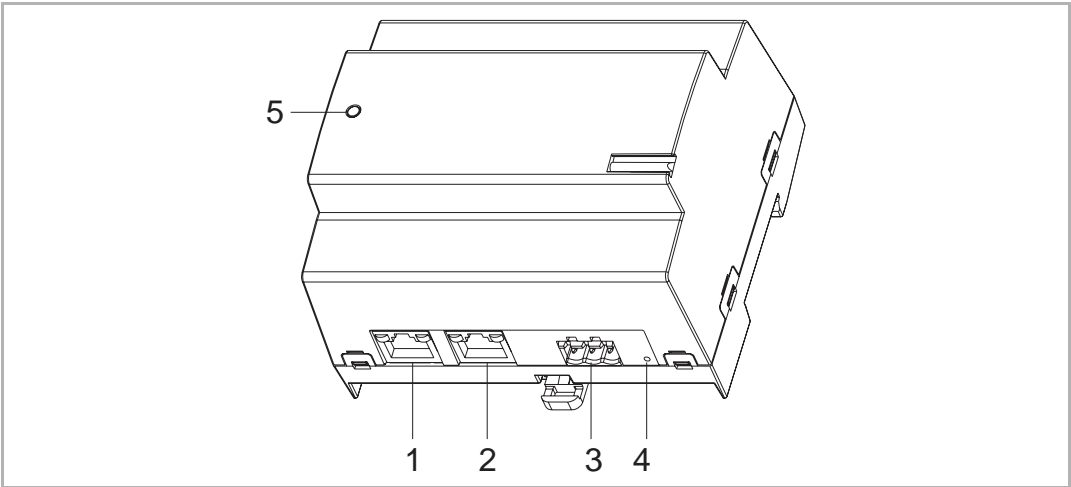


Fig. 1: Control elements

No.	Function
1	LAN port Link to a router or switch
2	Uplink port Link to outdoor ABB-welcome IP system
3	DC+, GND Power supply interface
4	Reset button When the device is powered on, hold this button for more than 3 s to enter the factory reset mode within 30 s.
5	Status indicator When the device is powered on and the connection of the indoor station is detected, the LED indicator blinks. After entering the factory reset mode, the indicator lights up for 3 s and then goes out.

Tab.1: Description

5.2 Feature

- Standard MDRC device
- 1 LED indicator
- Dual LAN port to isolate private devices from public device
- Support Welcome APP connected (Android and iOS)
- Support multiple indoor station(s) in one apartment

6 Technical data

Designation	Value
Operating voltage	27 VDC
Standby current	≤100 mA
Operating current	≤100 mA
Dimension	107 mm x 89.6 mm x 64.5 mm
Temperature	-25°C - +70°C
Humidity	≤93% RH, non-condensing
Protection	IP 31

Tab.2: Technical data

7 Mounting/Installation



Warning

Electric voltage!

Dangerous currents flow through the body when coming into direct or indirect contact with live components.

This can result in electric shock, burns or even death.

- Disconnect the mains power supply prior to installation and/or disassembly!
- Permit work on the 110-240 V supply system to be performed only by specialist staff!

7.1 Requirement for the electrician



Warning

Electric voltage!

Install the device only if you have the necessary electrical engineering knowledge and experience.

- Incorrect installation endangers your life and that of the user of the electrical system.
- Incorrect installation can cause serious damage to property, e.g. due to fire.

The minimum necessary expert knowledge and requirements for the installation are as follows:

- Apply the "five safety rules" (DIN VDE 0105, EN 50110):
 1. Disconnect
 2. Secure against being re-connected
 3. Ensure there is no voltage
 4. Connect to earth and short-circuit
 5. Cover or barricade adjacent live parts.
- Use suitable personal protective clothing.
- Use only suitable tools and measuring devices.
- Check the type of supply network (TN system, IT system, TT system) to secure the following power supply conditions (classic connection to ground, protective grounding, necessary additional measures, etc.).

7.2 Mounting

7.2.1 Product dimension

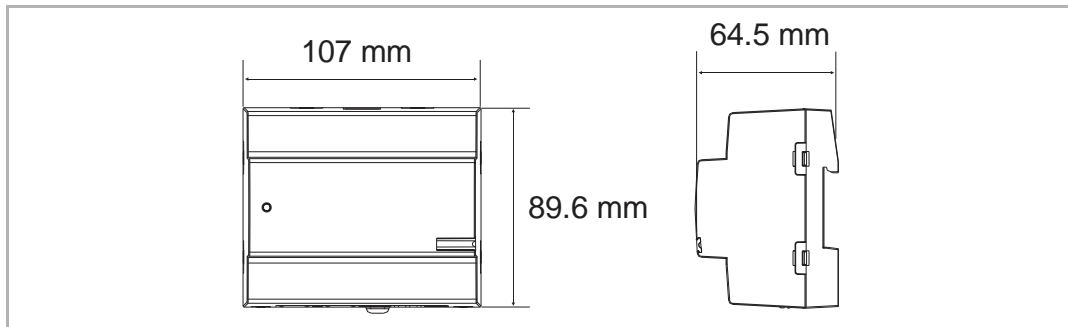


Fig. 2: Product dimension

7.2.2 Mounting

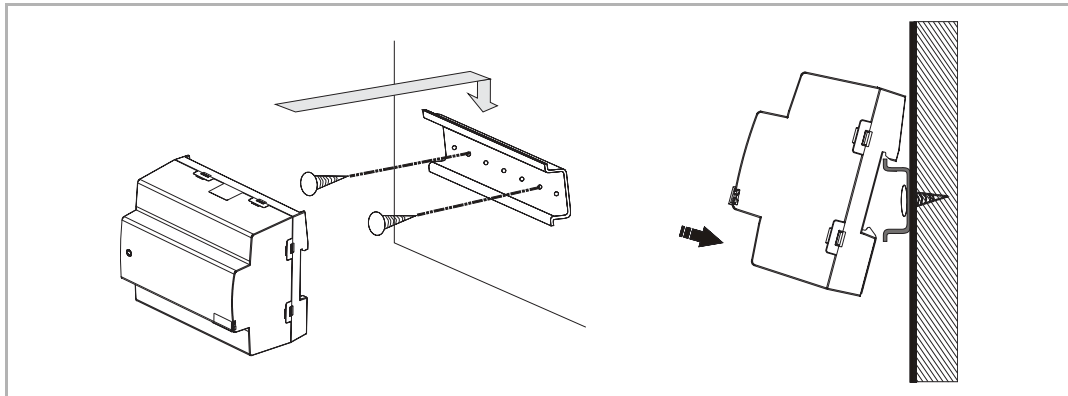


Fig. 3: Mounting

7.2.3 Dismantling

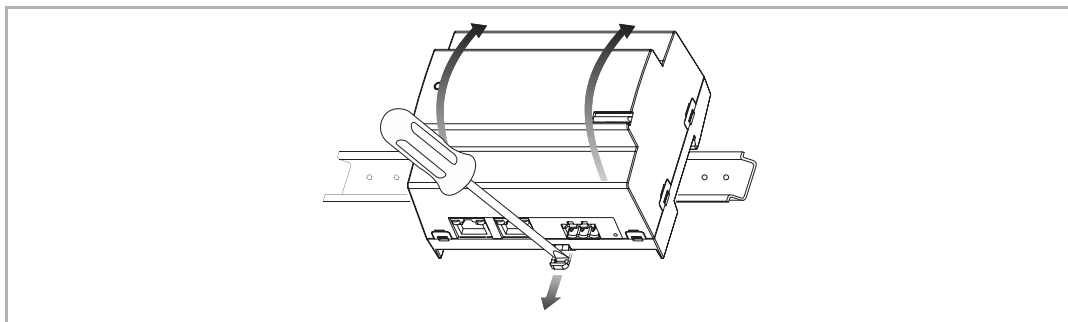


Fig. 4: Dismantling

8 Commissioning

8.1 Overview

The IP gateway has a user interface that can be reached via an Internet browser. The user interface can be opened from every computer that is part of the same network as the gateway that is to be configured.

For the initial startup of the IP gateway a few basic settings need to be made in this user interface.

2 options are available to you for commissioning:

Commissioning	Description
Version 1 - UPnP	Commissioning with the Windows UPnP service
Version 2 - IP address	Enter IP address directly

Tab.3: Overview of commissioning



Information regarding documentation

The Windows 7 interface is used to describe the configuration options.

8.2 Commissioning with the Windows UPnP service

Preconditions:

- There is a DHCP server on the network, e.g. integrated in the router.
- The IP gateway is connected to the router by a LAN cable.
- The PC is connected to the network.
- The IP gateway is connected and ready for operation.

Operations:

- Open Windows Explorer.
- Click the "Network" entry below the displayed drives. The window on the right now displays all devices currently on the network.
- Double-click the IP gateway icon. A browser window with the configuration interface automatically opens.

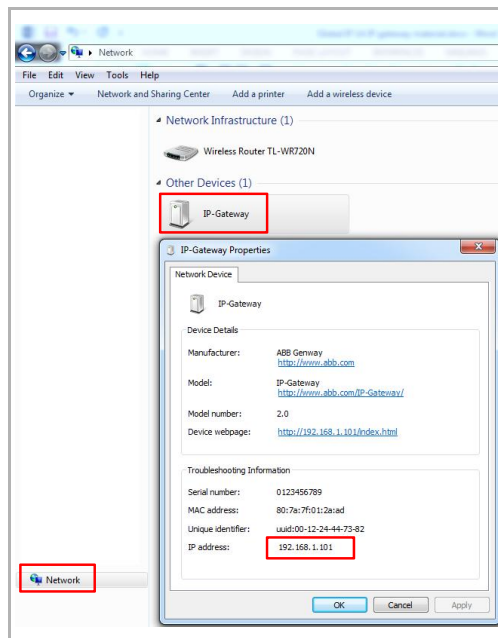


Fig. 5: Commissioning with Windows UPnP service



Note

If the browser does not open automatically, the device properties appear instead. Copy the displayed IP address, e.g. 192.168.1.101, and enter it manually into the browser's address bar.

If the IP gateway icon can't be found, you can check the Windows firewall. For example, turn off the Windows firewall. If you still can't find the IP gateway icon, you can go to version 2.

8.3 Commissioning with IP address

8.3.1 Getting the IP address from the router

Preconditions:

- There is a DHCP server on the network, e.g. integrated in the router.
- The IP gateway is connected to the router by a LAN cable.
- The PC is connected to the router by a LAN cable
- The IP gateway is ready for operation.

Operations:

- Open "Control Panel", select "Network and sharing center".
- Click on "Change adapter settings"

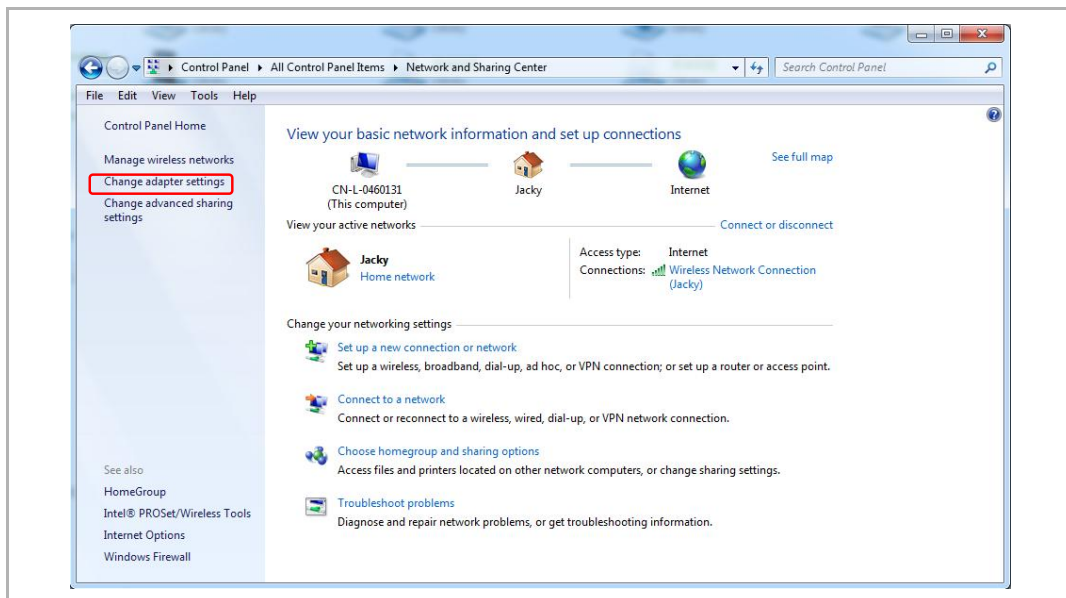


Fig. 6: Change adapter settings

- Double click the network connection icon to enter the "Network Connection Status" window.
- On "Network Connection Status" window, click "Properties".
- On "Network Connection Properties" window, select "TCP/IPv4", click "Properties".
- On "TCP/IPv4 Properties" window, select "Obtain an IP address automatically", click "OK".
- Back to "Network Connection Status" window, click on "Details".
- On "Network Connection Details" window, you can find the IP address of the router.

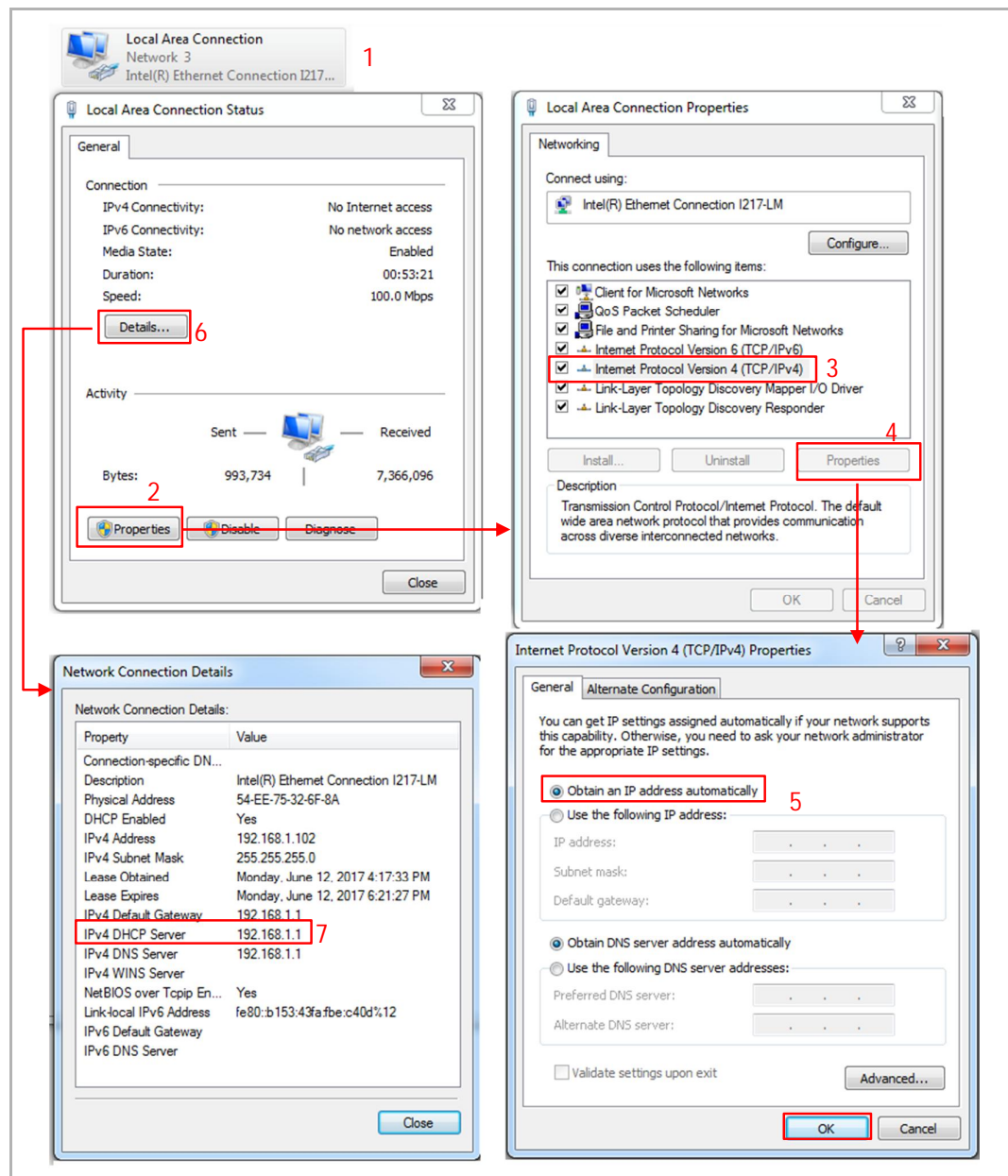


Fig. 7: Getting IP address of DHCP server

Getting the IP address of the IP gateway

- Enter the IP address of the router on the browser to access the router.
- Click "Attached Devices", you will find a list of all connected devices including the name, MAC address and IP address.

ID	Name	MAC address	IP address
1	CN-L-0460131	54-EE-75-32-6F-8A	192.168.1.100
2	ip-gateway	80-7A-7F-01-2A-AD	192.168.1.101

Fig. 8: Getting the IP address of IP gateway

8.3.2 Getting the IP address from the indoor station

If the connection type of the indoor station is set on "IP gateway", you can also find the IP address from the information page of the indoor station.

The indoor station needs to be connected to the LAN port of the IP gateway.

ENGINEERING

Address Default GUI Function Picture Quick Config Private OS

Connection Type ☒ IP-Gateway

Address Setting

Block No.: 001 Unit No.: 0101 ID: 01

SIP Server

☒ DHCP ☒ Static IP

IP: 192 168 1 102

Mask: 255 255 255 0

Gateway: 192 168 1 1

DNS: 192 168 1 1

Active Back

SYSTEM INFORMATION

Firmware Version:
H82351_V3.27_20170310_MP_TIDM365
Debug
Build at 16:20:18 Jun 6 2017
ALARM_V3.05_20141224

Address of Indoor Station:
0001 0101 01

Hardware Version:
H82351_V0.30

MAC Address :
80:7A:7F:01:8F:39

IP-gateway Address:
192.168.1.101

Android App:

iOS App:

NFC App:

Error Log

Thursday 01/05/2014 00:20

Fig. 9: Getting IP address from indoor station

8.3.3 Logging into IP gateway with the IP address

- Enter the IP address of the IP gateway directly on the browser.
- Enter the user name and password. (default is "admin", "admin")
- Click "Login" to enter the configuration menu.

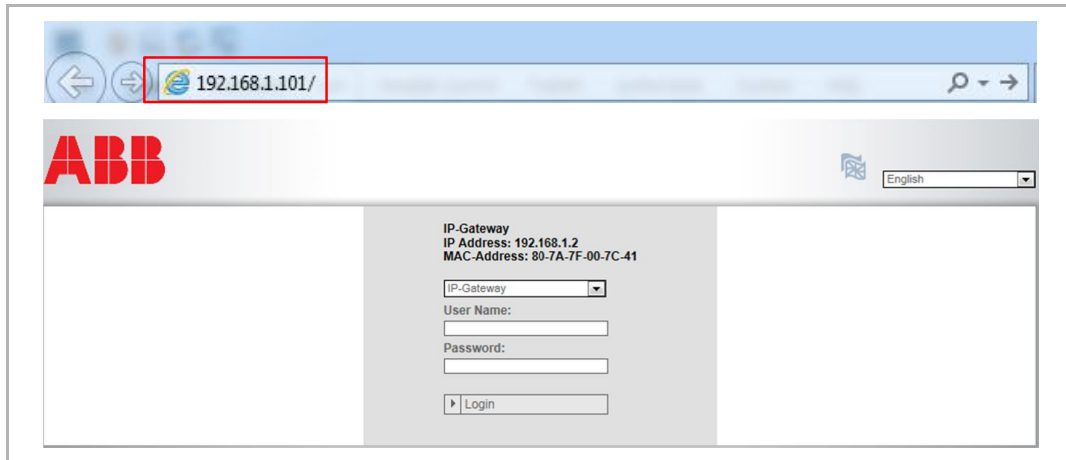


Fig. 10: Logging into IP gateway with the IP address

8.4 Resetting the IP gateway to the factory default setting

Press and hold the "Reset" button for 3 s to reset the IP gateway to the factory default setting.

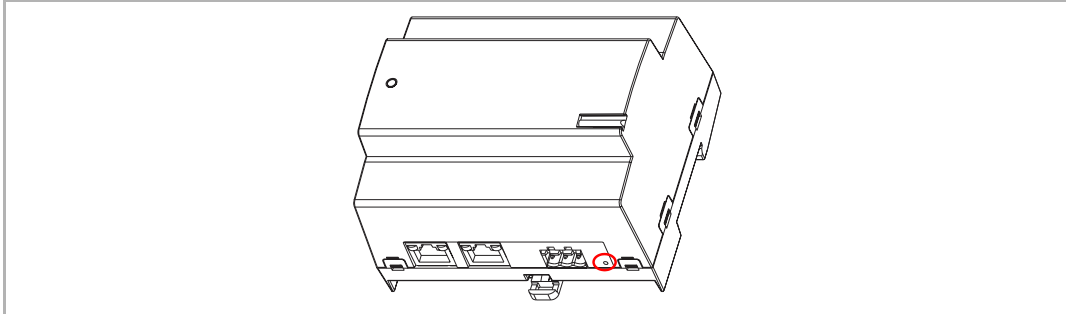
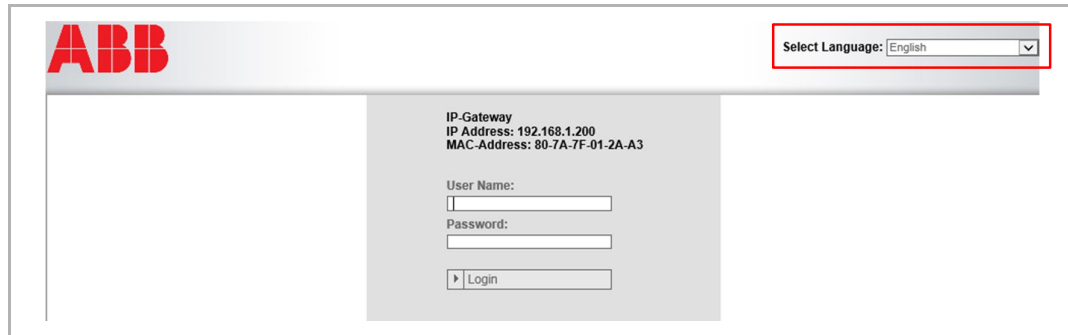


Fig. 11: Resetting the IP gateway to factory default setting

9 Operation

9.1 Language



The screenshot displays the ABB IP-Gateway web interface. In the top right corner, there is a dropdown menu labeled "Select Language:" with "English" selected. The ABB logo is visible in the top left. The main content area shows the device's IP address (192.168.1.200) and MAC address (80-7A-7F-01-2A-A3). Below this, there are input fields for "User Name:" and "Password:", and a "Login" button.

Fig. 12: Language

Select a language on the upper right corner of the page.

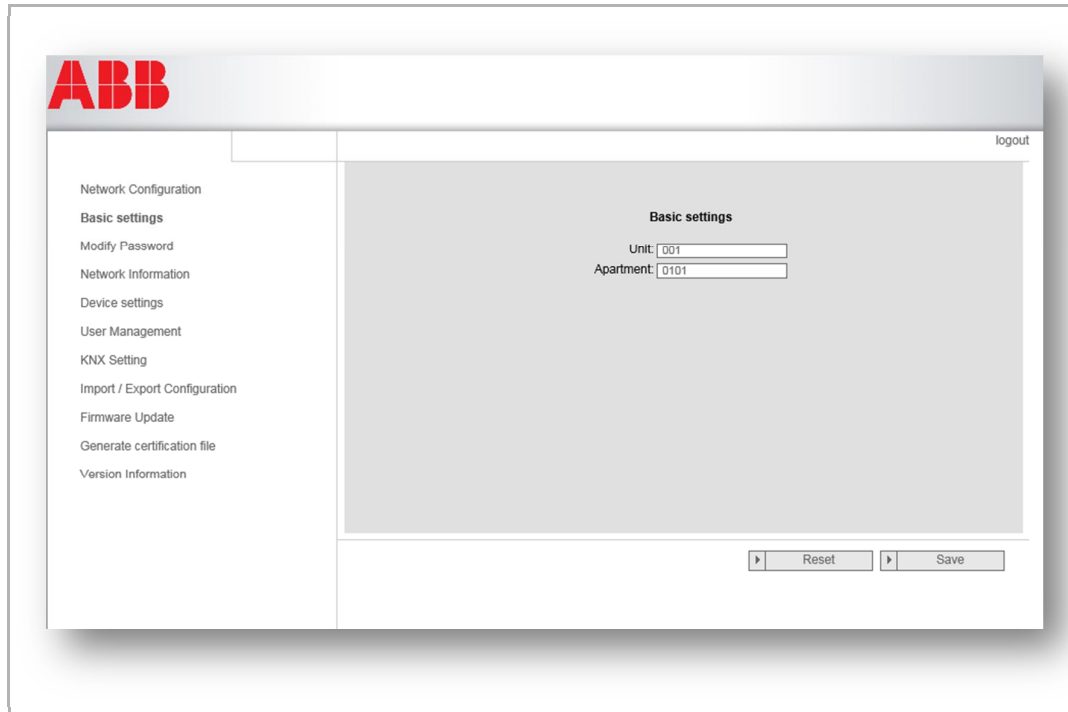
9.2 Network configuration

The screenshot shows a web interface for network configuration. On the left is a sidebar menu with the following items: Network Configuration, Basic settings, Modify Password, Network Information, Device settings, User Management, KNX Setting, Import / Export Configuration, Firmware Update, Generate certification file, and Version Information. The main content area is titled "Network Configuration" and features a "logout" link in the top right corner. Below the title are two radio buttons: "DHCP" (which is selected) and "Static IP". Under the "DHCP" section, there are four rows of input fields: "IP Address" (192, 168, 1, 101), "Network mask" (255, 255, 255, 0), "Default Gateway" (192, 168, 1, 1), and "DNS" (192, 168, 1, 1). Below these is a single-line input field for "External IP / Hostname". At the bottom right of the main area are two buttons: "Reset" and "Save".

Fig. 13: Network configuration

On the "Network configuration" page you can set the IP address as DHCP or Static IP. (Default is DHCP)

9.3 Basic setting



The screenshot displays the ABB Basic settings web interface. At the top left is the ABB logo. A top navigation bar contains a 'logout' link. A left sidebar lists the following menu items: Network Configuration, Basic settings (highlighted), Modify Password, Network Information, Device settings, User Management, KNX Setting, Import / Export Configuration, Firmware Update, Generate certification file, and Version Information. The main content area is titled 'Basic settings' and contains two input fields: 'Unit:' with the value '001' and 'Apartment:' with the value '0101'. At the bottom right of the main area are two buttons: 'Reset' and 'Save'.

Fig. 14: Basic settings

On the "Basic settings" page you can enter the "Unit no." and "Apartment no" of the relative indoor station.

9.4 Modify password

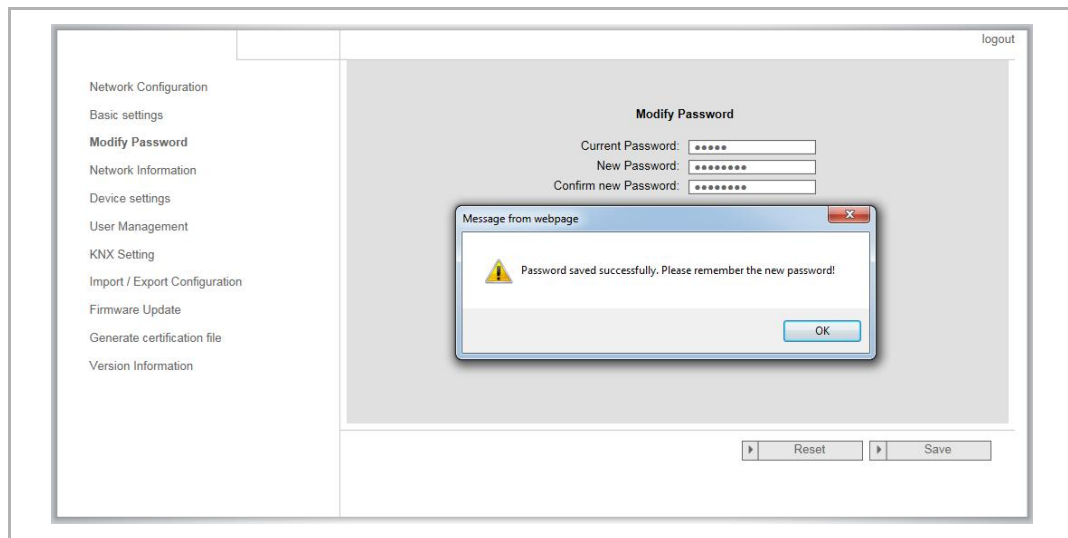


Fig. 15: Modify password

On the "Modify Password" page, you can change the system password. ("admin" by default)
A new password can have 4-8 numbers and characters.

9.5 Network information

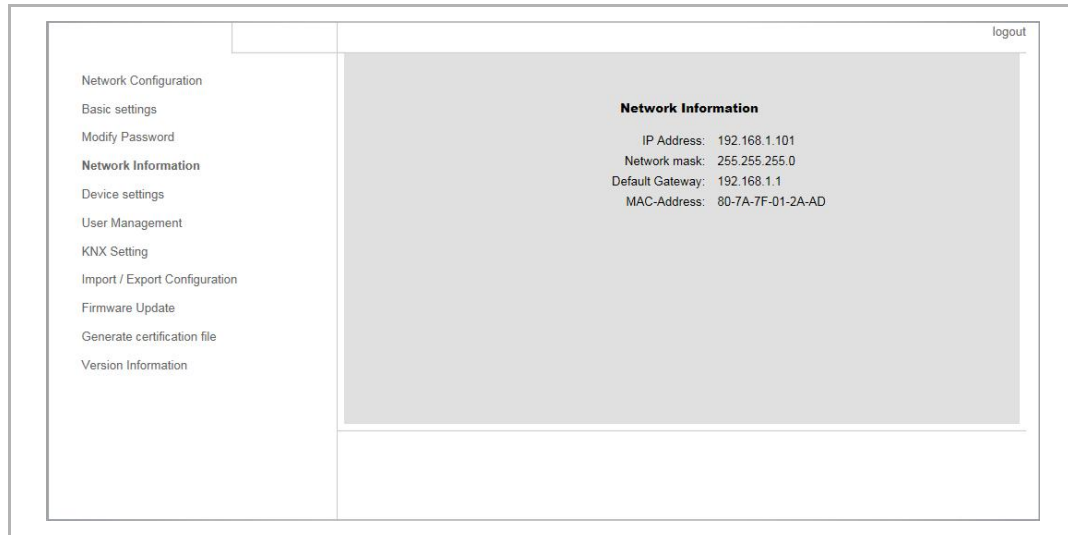


Fig. 16: Network information

On the "Network Information" page, you can view the IP address of the IP gateway and other relevant information.

9.6 Device settings

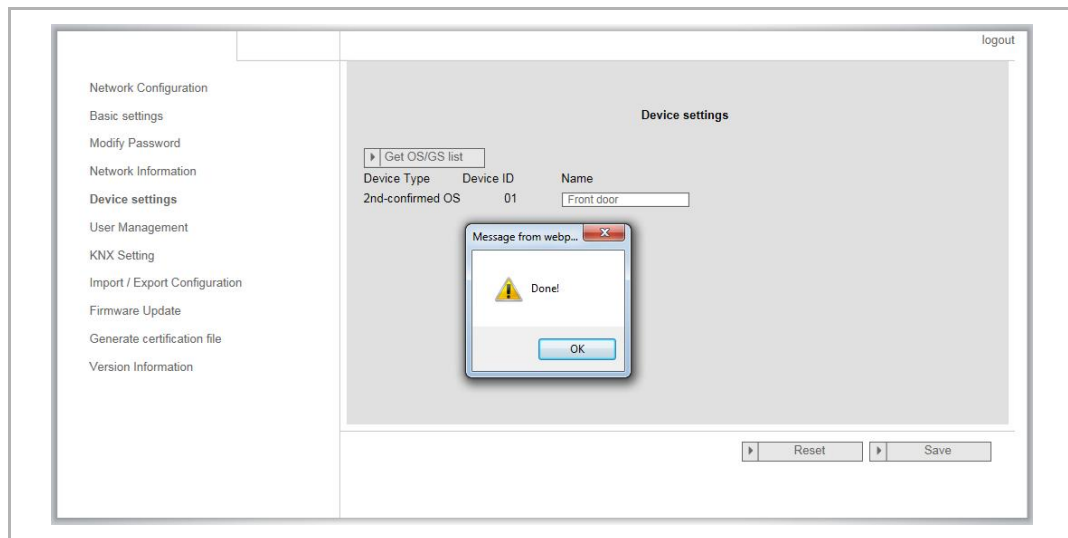


Fig. 17: Device settings

On the "Device settings" page you can access the OS/GS list.

It allows the device to be renamed.

9.7 User management

9.7.1 Add standard user

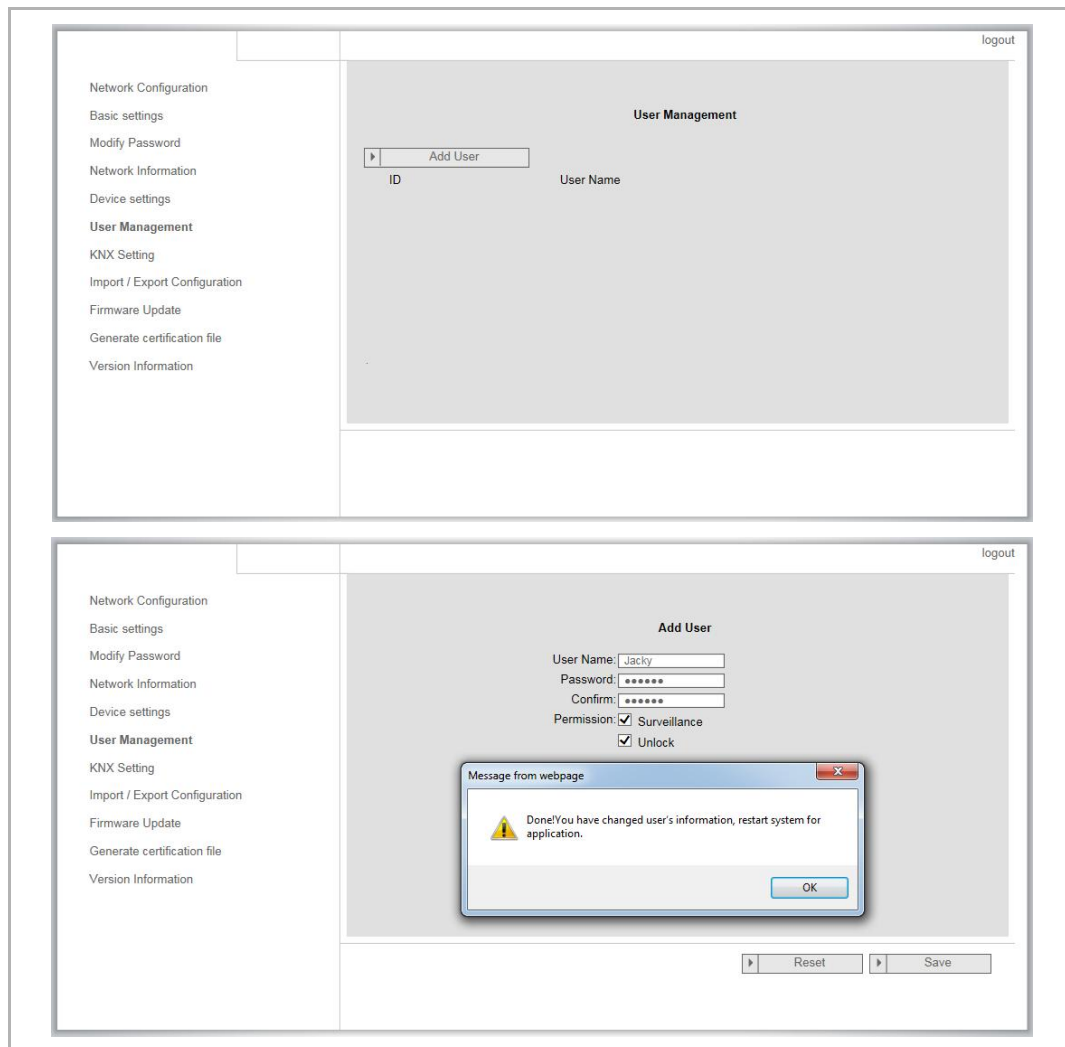


Fig. 18: Add standard user

On the "User management" page, you can add a standard user and set the access authorization.

For standard users, their authorizations only include "Surveillance" and "Unlock".

9.7.2 Access for standard user

The screenshot displays the ABB IP Gateway web interface. At the top, the ABB logo is on the left, and a language selection dropdown (set to English) is on the right. Below the logo, a central panel contains the gateway's IP (192.168.1.101) and MAC (80-7A-7F-01-2A-AD) addresses, followed by login fields for 'User Name' (pre-filled with 'Jacky') and 'Password' (masked with asterisks), and a 'Login' button. Below this, the 'User Information' page is shown. It features a sidebar with links for 'User Information', 'Modify Password', and 'Version Information'. The main content area, titled 'User Information', shows the current user as 'kids' with permissions for 'Surveillance' and 'Unlock' (both checked). A QR code is displayed under the 'QR Code:' label. A 'logout' link is visible in the top right corner of the main content area.

Fig. 19: Access for standard user

For the login of IP gateway with standard user, you can find a QR code on the "User information" page.

A standard user can modify the login password, but can not change the authorization.

9.7.3 Quick configuration for standard user with APP

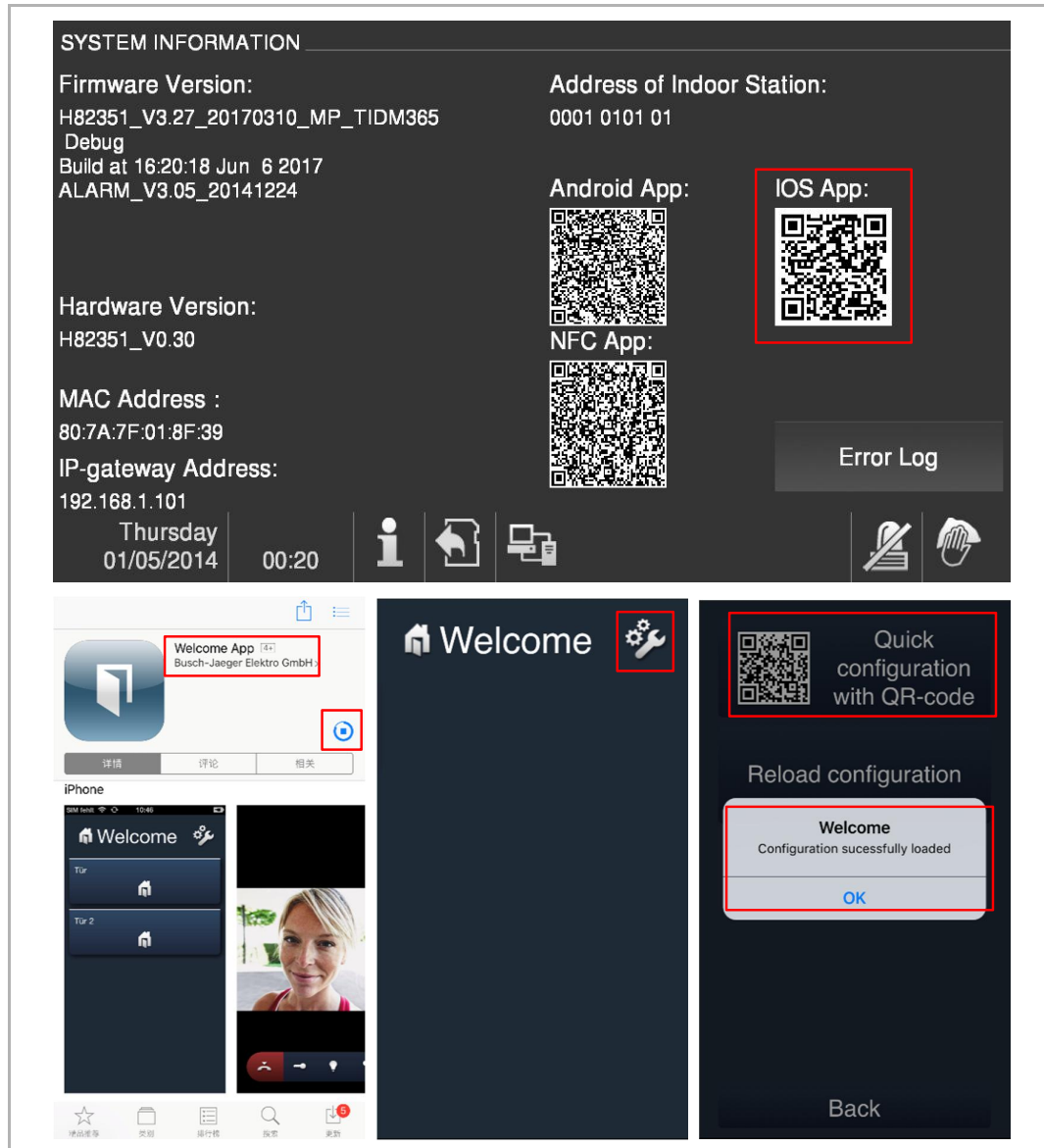


Fig. 20: Download and install APP

- Open the "System information" page of the indoor station;
- Scan the QR code with the mobile device, download and install the app;
- Open the app and click the "Setting" button;
- Make sure the mobile and IP gateway are located in the same network;
- Login to the IP gateway with normal user, click on "User information" page;
- Click on "Quick configuration with QR code" on the app, scan the QR code on the "User information" page.
- Click on "OK" to confirm the configuration.

Click on "Back" to return to the main page.

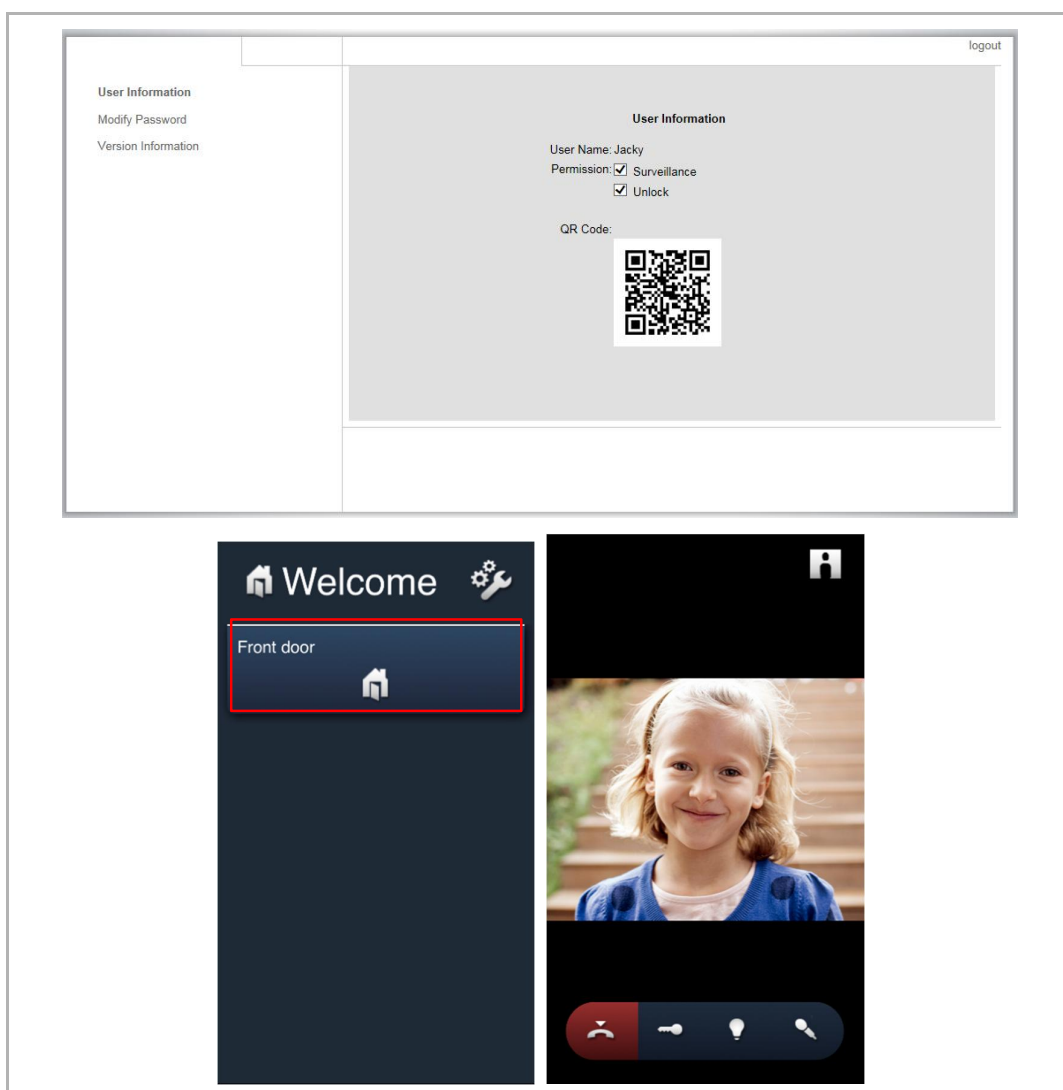


Fig. 21: Quick configuration for standard user with APP

The main page displays all devices added by the IP gateway.

Click the icon of the outdoor station to start the surveillance.

9.8 KNX setting



The screenshot shows a web interface for configuring a device. On the left is a vertical sidebar menu with the following items: Network Configuration, Basic settings, Modify Password, Network Information, Device settings, User Management, **KNX Setting** (highlighted), Import / Export Configuration, Firmware Update, Generate certification file, and Version Information. The main content area is titled "KNX Setting" and contains the label "IPS address:" followed by four input fields separated by dots (e.g.,). In the top right corner of the main area is a "logout" link. At the bottom right of the main area are two buttons: "Reset" and "Save", each preceded by a right-pointing arrow.

Fig. 22: KNX setting

On the "KNX Setting" page you can enter the IPS address and click on "Save" to save the setting.

9.9 Import/Export configuration

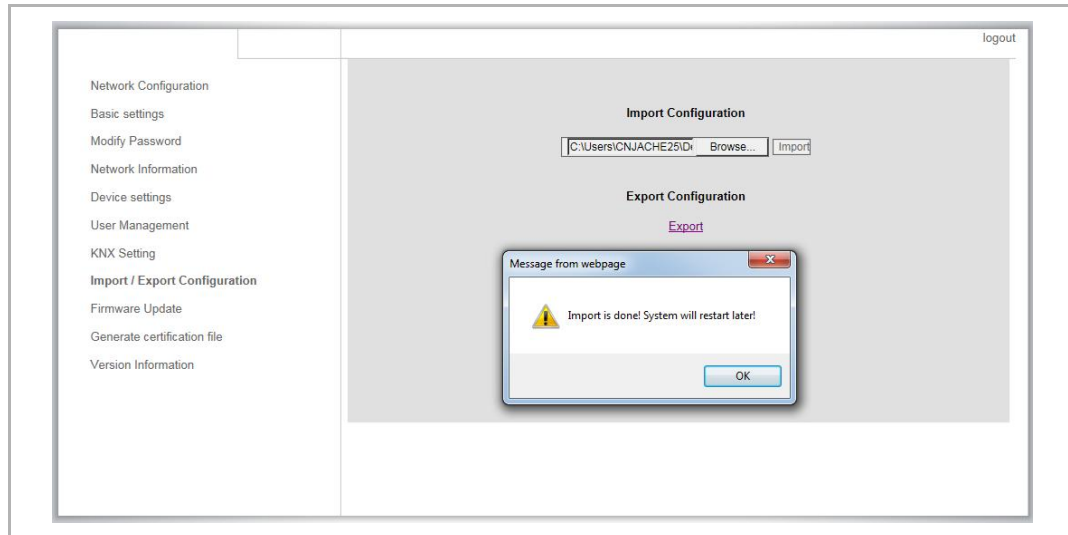


Fig. 23: Import/Export configuratin

On the "Import/Export configuration" page you can export the configuration file to the PC or import the configuration file from the PC.

9.9.1 Firmware update

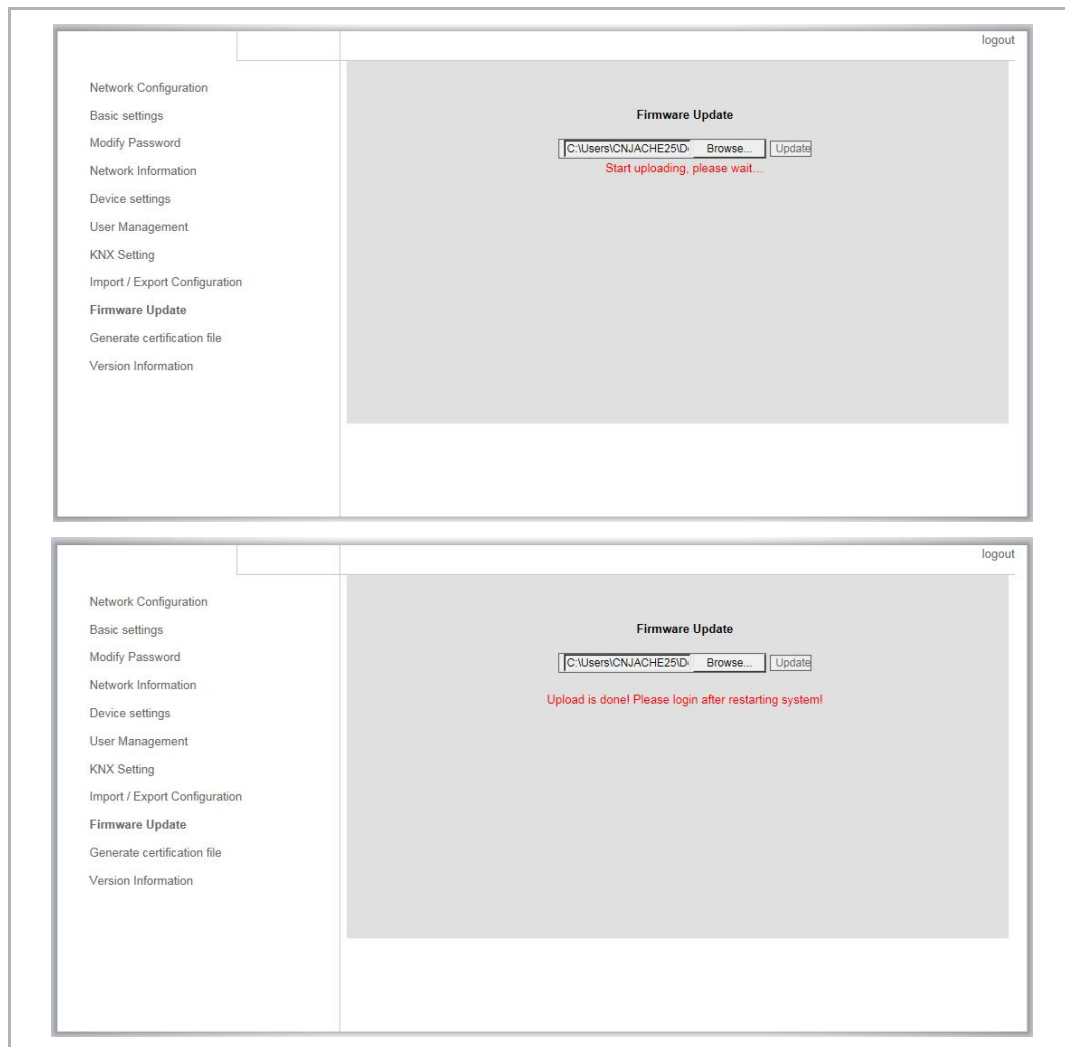


Fig. 24: Firmware update

On the "Firmware Update" page you can update the software of IP gateway.

You need to restart the IP gateway after the successful update.

9.10 Generate certification file



Fig. 25: Generate certification file

The IP gateway will generate a certification file automatically when installed. Its validity period is 50 years. If the certification is invalid, you can create a new certification file on this page to ensure normal operation.

9.11 Version information



Fig. 26: Version information

On the "Version Information" page you can view the current version of the software.

Notice

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