

# **Web-Managed PoE Injector User Guide**

# Web-Managed PoE Injector User Guide

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## Introduction

Multi-Channel Mid-spans offer a compact and cost effective, fully IEEE 802.3af/at compliant solution for remote powering of wireless LAN (WAN) access points, IP Security cameras, VoIP telephone and other low port

The POE INJECTOR PoE Mid-spans eliminate the need for external power supply and its associated AC/DC power cabling, providing a compact, affordable, safe and reliable power solution over existing Ethernet infrastructure.

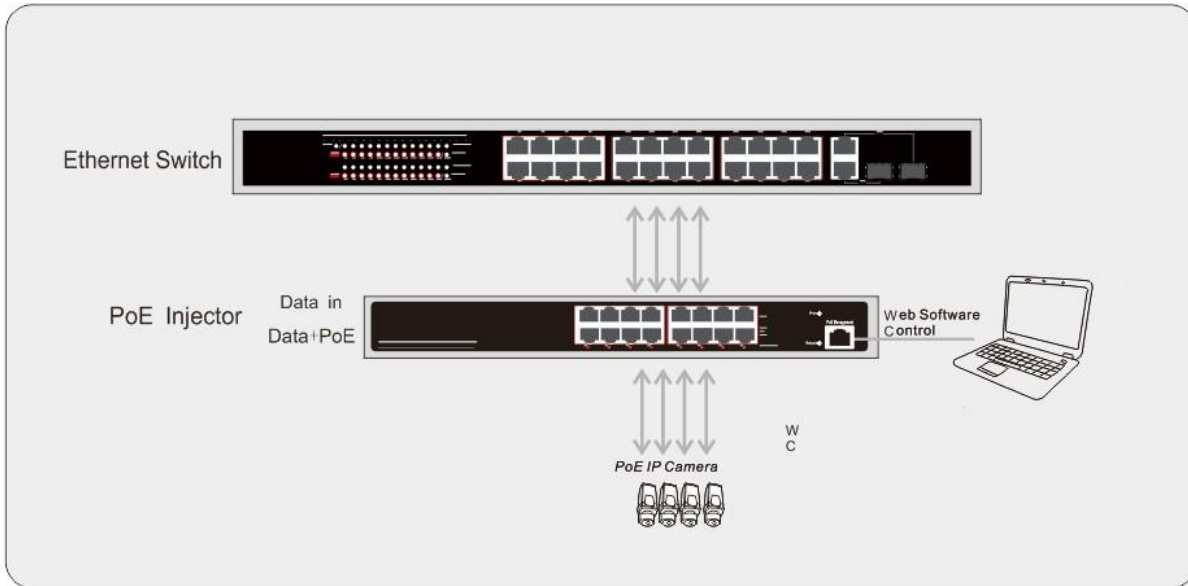
## Features

- Full IEEE 802.3af /atCompliant
- Up to 30w of Power on 2-pairs
- Auto-detect of POE IEEE 802.3af equipment
- Supports 10/100/1000Base-T applications
- LED indicators power input indication
- Internal AC/DC converter
- Easy plug-and-play installation
- Surge protection
- Show PoE Output status
- PoE ON/OFF Control
- Management by Web/Telnet
- EMI standards complies with FCC, CE class B

## Hardware Description

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## Application



## Specifications

Item	Description
No. of channels	8/12/16/24
Pass Through Data Rates	10/100/1000Mbps
Power over Ethernet Output	Pin Assignment and Polarity: 1/2 (-), 3/6 (+) Output Power Voltage: 50Vdc User Port Power: 15/30W
Input Power Requirements	AC Input Voltage: 100 to 240 Vac AC Input Current: 2A 100-240 Vac AC Frequency: 50 to 60 Hz
Dimensions(8ch)	44*185*341mm
Dimensions (12/16/24CH)	44*200*440mm
Indicators	System Indicator: Power User Indicator: Channel Power
Connectors	Shielded RJ-45, EIA 568A and 568B
Environmental Conditions	Operating Ambient Temperature: 0 to 45°C Operating Humidity: Maximum 80%, Non-condensing Storage Temperature: -20 to 70°C Storage Humidity: Maximum 80%, Non-condensing
Regulatory Compliance	IEEE 802.3af/at (PoE)
PoE Control	ON/OFF Current and voltage display
Auto ping	When PD has IP ping fails, the PSE power supply will shut down the port for 3 to 5 seconds, and then re-supply, maintenance functions to achieve WAP, IPC's.
Upgrade Firmware	Support Upgrade Firmware via WEB.
Configuration File Download/Upload	Support Download/Upload configuration File via WEB.

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## Purpose

This administrator's guide provides the configuration method for IP802/IP804/IP808 based Web-Managed POE Injector, including Administrator, POE Management, Backup/Recovery, Logout, and so on.

Web-Managed POE Injector supports all mainstream browsers, such as IE 6.0~9.0, Firefox 2.0~3.0 and Chrome, to configure IP802/IP804/IP808 functions listed below.

## Prepare to enter the Web-Managed POE Injector

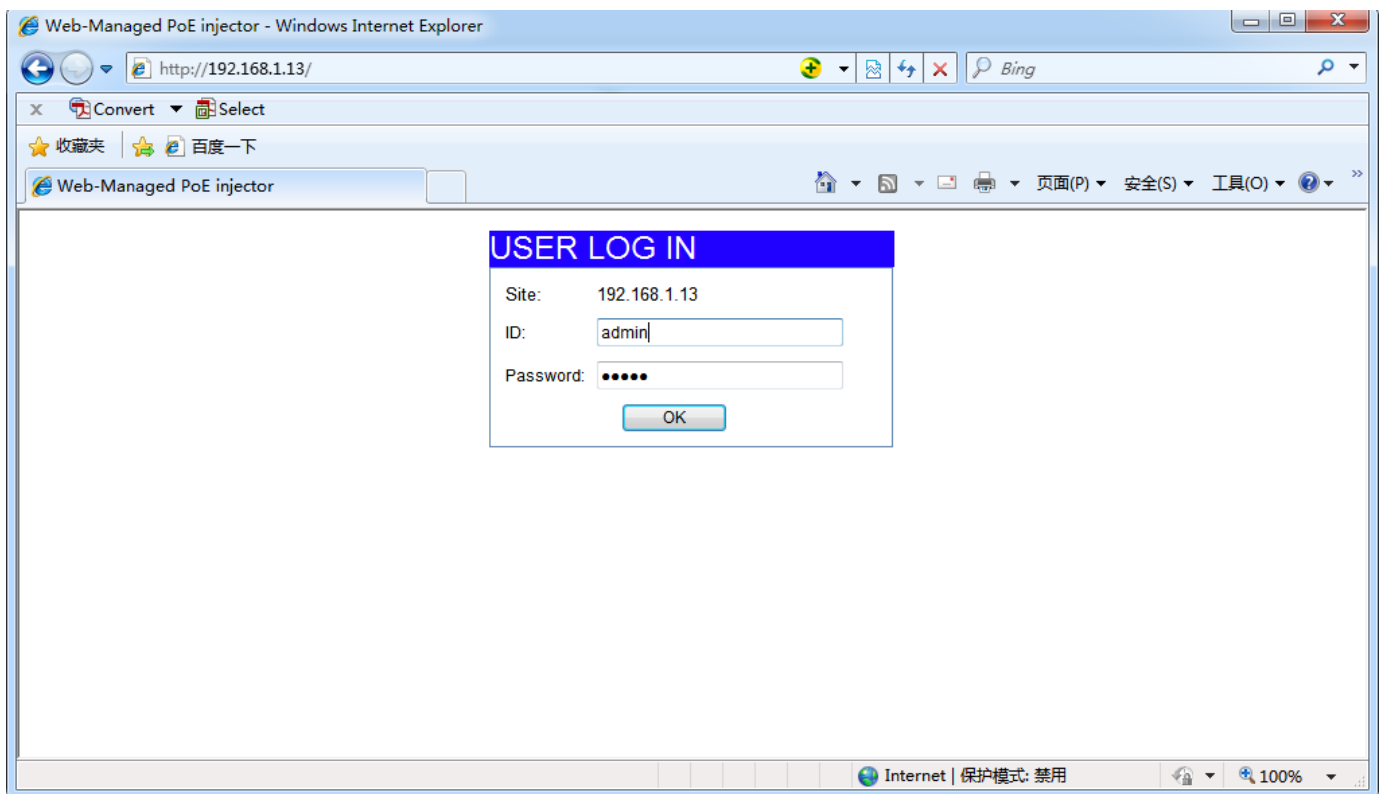
Enter the correct administrator name and password after the login page shows up.

Default IP address: 192.168.1.13

Default administrator name: admin

Default password: admin

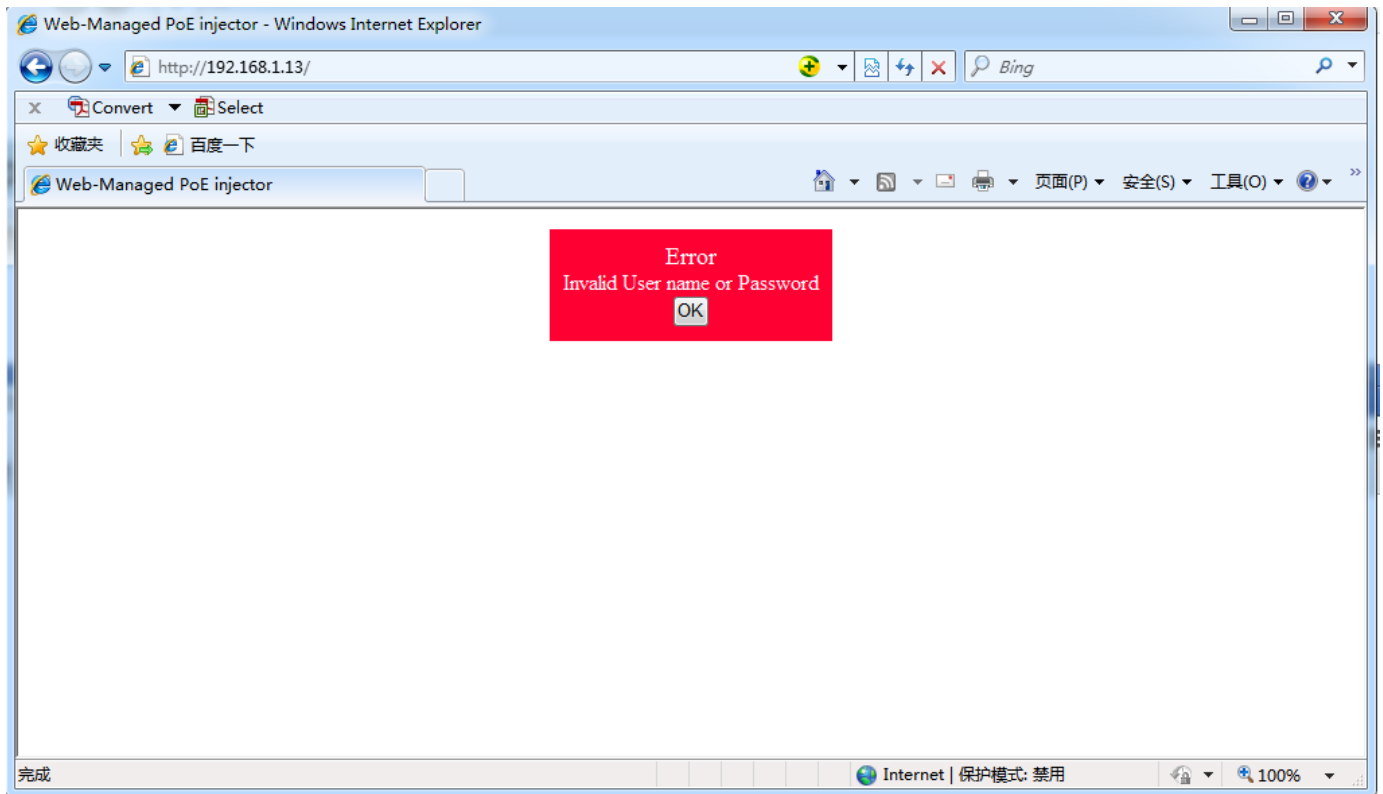
Press "OK" to login.



Note: the administrator name and password fields are case-sensitive. The higher case characters will be recognized as different characters. For example: "ADMIN" will be recognized as the different character from "admin".

If you input the incorrect administrator name or password, the following warning message will show up and you must click "OK" to go back to the login page.

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## 7 Administrator

### 7.1 Authentication Configuration

This page allows the administrator to change the administrator name and the password. You can input up to 15 characters for each field.

#### Authentication Configuration

Setting	Value
Username	<input type="text" value="admin"/> max:15
Password Confirm	<input type="password" value="*****"/> max:15 <input type="password" value="*****"/>
<input type="button" value="Update"/>	

**Note:**

Username & Password can only use "a-z","A-Z","0-9","\_","+","-","=".

**Note:**

The legal characters for these fields are "a~z", "A~Z", "0~9", "\_", "+", "-", "=".

### 7.2 System IP Configuration

This page shows system configuration including the current IP address and sub-net mask and Gateway. IP address, Subnet Mask, and Gateway at system IP Configuration can be configured by the administrator. The smart Injector also supports DHCP method to allow the dynamic IP address allocated by DHCP server.

#### System IP Configuration

Setting	Value
IP Address	<input type="text" value="192"/> . <input type="text" value="168"/> . <input type="text" value="2"/> . <input type="text" value="1"/>
Subnet Mask	<input type="text" value="255"/> . <input type="text" value="255"/> . <input type="text" value="255"/> . <input type="text" value="0"/>
Gateway	<input type="text" value="192"/> . <input type="text" value="168"/> . <input type="text" value="2"/> . <input type="text" value="254"/>
IP Configure	<input checked="" type="radio"/> Static <input type="radio"/> DHCP
<input type="button" value="Update"/>	

### 7.3 System Status

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This page allows the administrator to check the status of Injector, including Injector MAC address and software version.

## System Status

<b>MAC Address</b>	10:f0:13:f0:18:26
<b>Number of Ports</b>	8
<b>Comment</b>	switch MAX:15
<b>System Version</b>	MidSpan_v1.3
<input type="checkbox"/> <b>Idle Time Security</b>	Idle Time: 0 (1~30 Minutes) <input type="radio"/> Auto Logout(Default). <input type="radio"/> Back to the last display.
<input type="button" value="Update"/>	

Note:  
Comment name only can use "a-z", "A-Z", "\_", "+", "-", "=", "0-9"

The comment field allows the network administrator to input an easy-to-remember nickname for this Injector. The legal characters are "a~z", "A~Z", "0~9", "\_", "+", "-", "=", excluding special character.

The Idle time field allows the administrator to set a timer for auto logout. When the system detects no web page activity for a pre-defined time, the system will auto-logout.

## 7.4 Load default setting

Clicking the "Load" button will make the switch go back to the original configuration.

Note: this change only concerns the Injector behavior, excluding the change for IP Address, User Name and password.

After Load Default is executed, the all settings will be restored to default setting.

### Load Default Setting

recover MidSpan default setting excluding the IP address, User name and Password

## 7.5 Firmware Update

Before the firmware update procedure is executed, you should enter the login password twice and then press "Update" button. There is a self-protection mechanism in the Boot Loader, so the Boot Loader will keep intact. Even though the power is turned off or the cable link fails during the firmware update procedure, the Boot Loader will restore the code to firmware update page.

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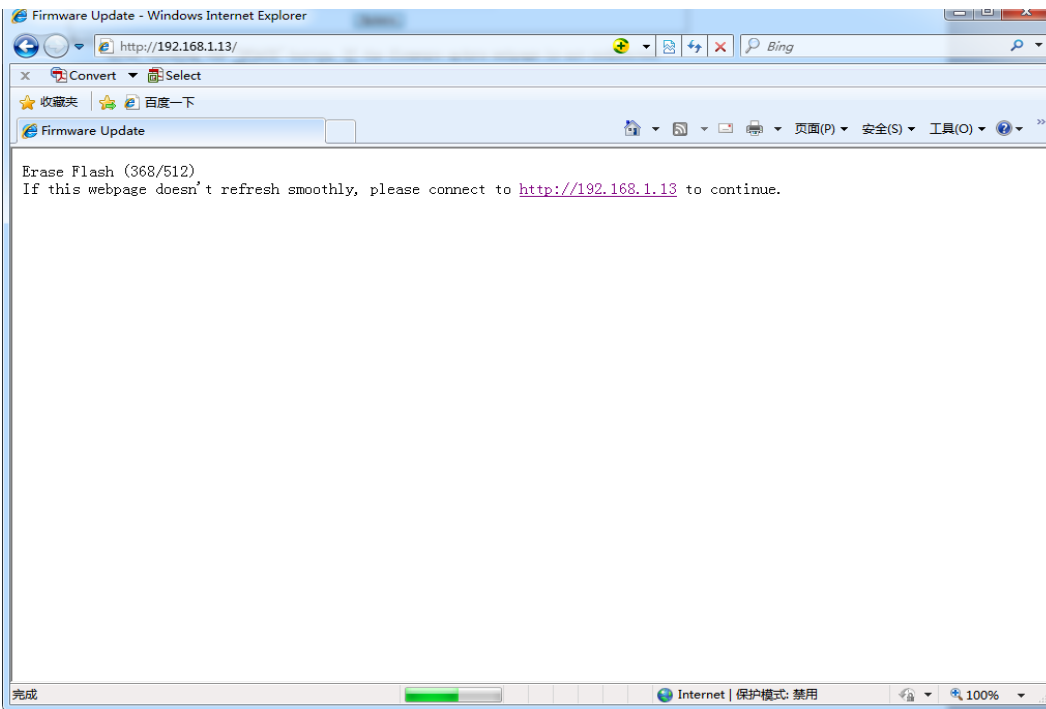
Firmware Update

Please input the password to continue the Firmware Update process.

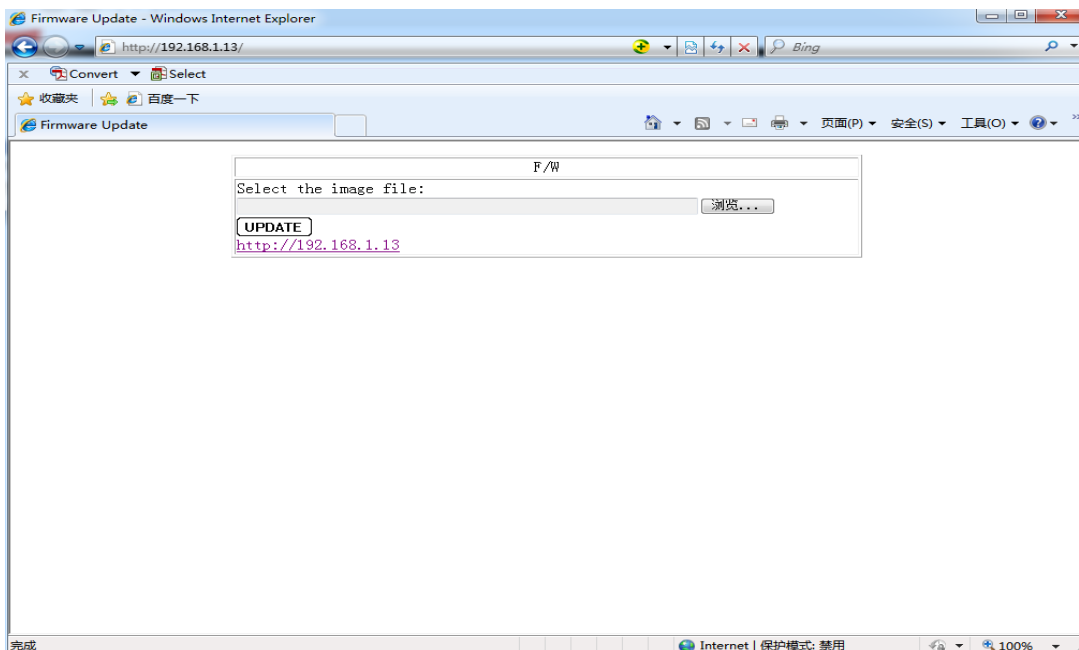
Password

ReConfirm

Notice:  
After clicking the "UPDATE" button, IF the firmware update webpage is not redirected correctly or is shown as "Webpage not found".  
Please connect to <http://192.168.1.13>

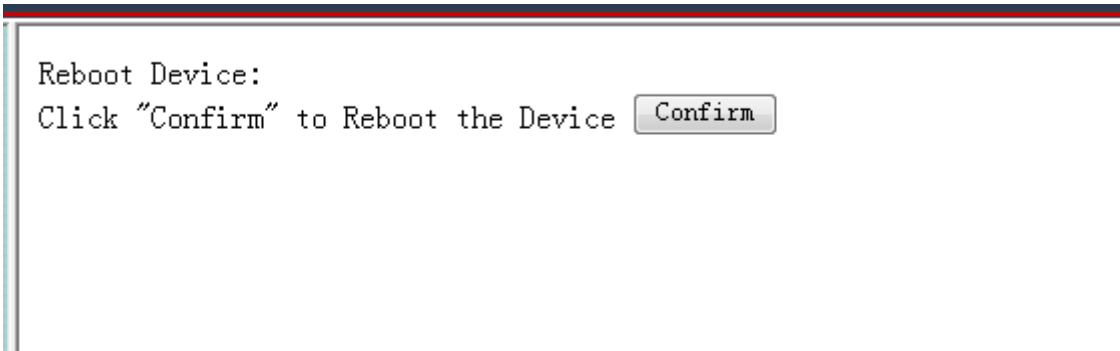


After you press "Update" button, the old web code will be erased. After completing, you should select the image file and press "Update" button to take effect.



## 7.6 Reboot Device

This page is used to reboot device. No hardware reset is executed by means of executing “Reboot Device”.



## 8 PoE

### 8.1 PoE Status

This page allows the administrator to check PoE status of this Injector, including Max available Power, Power Mode ,Auto Recovery, PoE status.

The screenshot shows the PoE Status page in a web browser. The page has a dark blue header with seven numbered icons (1-7). On the left is a navigation menu with categories: Administrator (Authentication Configuration, System IP Configuration, System Status, Load default setting, Firmware Update, Reboot Device), PoE (PoE Status, PoE Setting, PoE Event Counter, PoE Power Delay, PoE Scheduling, PoE Auto Check, NTP Setting), Backup/Recovery, and Logout. The main content area is titled "PoE Status" and contains two tables. The first table, "PoE Setting", has three rows: "Max available Power" with a text input field containing "250" and a unit "W"; "Power Mode" with a dropdown menu showing "Host defined Power Limit"; and "Auto Recovery(0:not recovery)" with a text input field containing "10" and a unit "s (1~255)". Below this table is an "Update" button. The second table, "PoE Status", has two rows: "System operation status" with the value "On"; and "Actual Power Consumption" with the value "0.0(W)". The browser's status bar at the bottom shows "Internet | 保护模式: 禁用" and "100%".

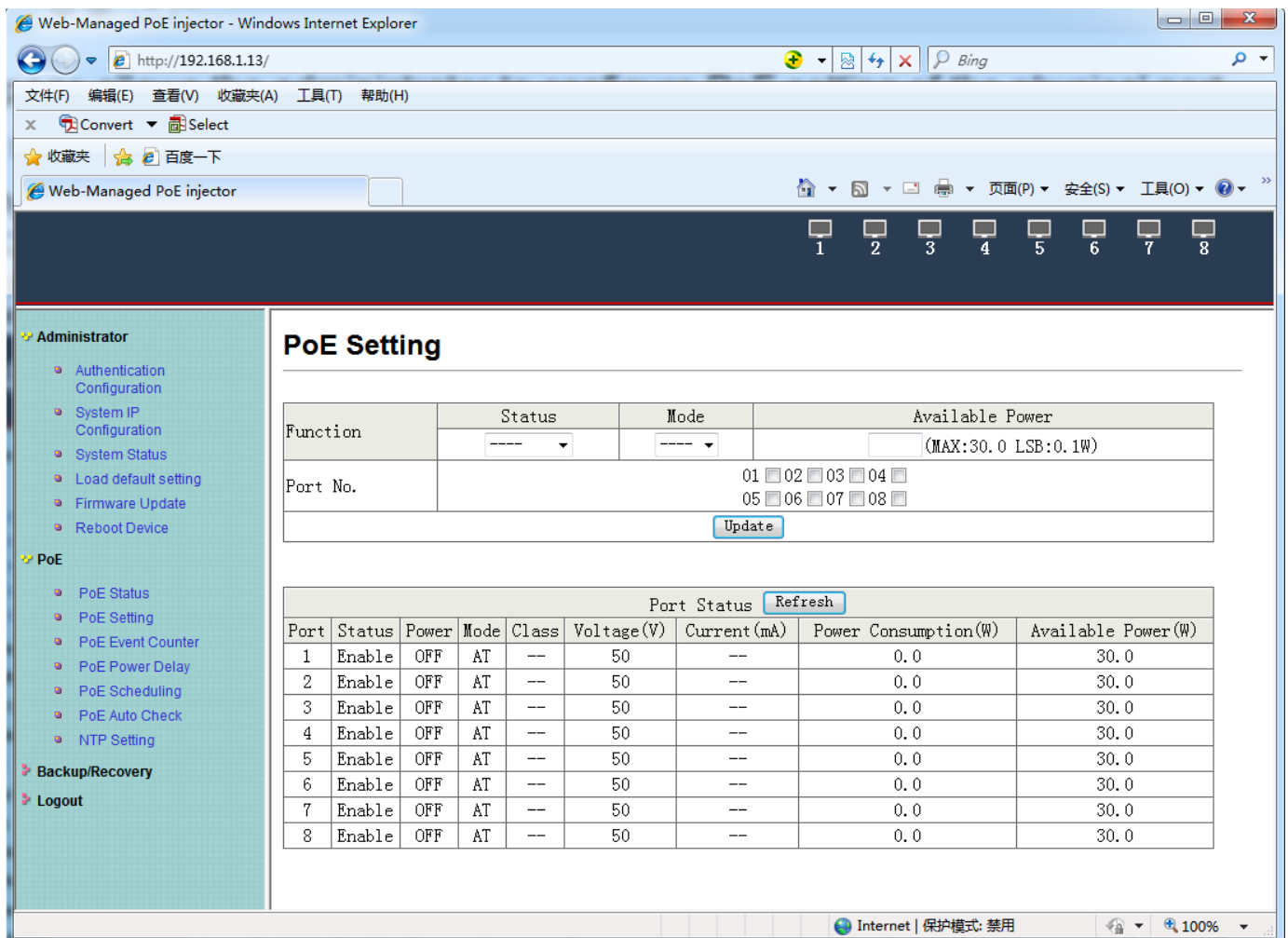
The Max available Power field allows the administrator to input a number of maximum available power supply of all PSE device for this Injector. The available number is from “0” to “240” watts depending on the power supplies capability. If power consumption reaches this threshold, the lowest priority ports will be disconnected.

The Power Mode field allows the administrator to Select operating mode

The Auto Recovery field allows the administrator to chose PoE Recovery time when the port is power off,The available number is from “0” to “255” .

## 8.2 PoE Setting

This page allows the administrator to configure PoE setting of the physical port. After selecting the settings, you should press “Update” button to take effect. The setting will be reflected at Port Status window.



Field	Description
Status	Set all ports enable or disable PoE feature.
Mode	Supports both 802.3at and 802.3af.
Available Power	Set all ports power supplies watts, the maximum watts is “30.0W”. the minimum watts is “0.1W”.

## 8.3 PoE Event Counter

This page allows the administrator to monitoring the event happen in the all physical ports after Injector is Power on. The Event Counter will auto update when press “Refresh” button. If you need to restart Counting please press “Clear” button.

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The screenshot shows a web browser window titled "Web-Managed PoE injector - Windows Internet Explorer" with the address bar showing "http://192.168.1.13/". The page content includes a navigation menu on the left with categories like Administrator, PoE, Backup/Recovery, and Logout. The main content area is titled "PoE Event Counter" and features a table with the following data:

PoE Event ID								
Port	E0	E1	E2	E3	E4	E5	E6	E7
1	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0
Port	E0	E1	E2	E3	E4	E5	E6	E7

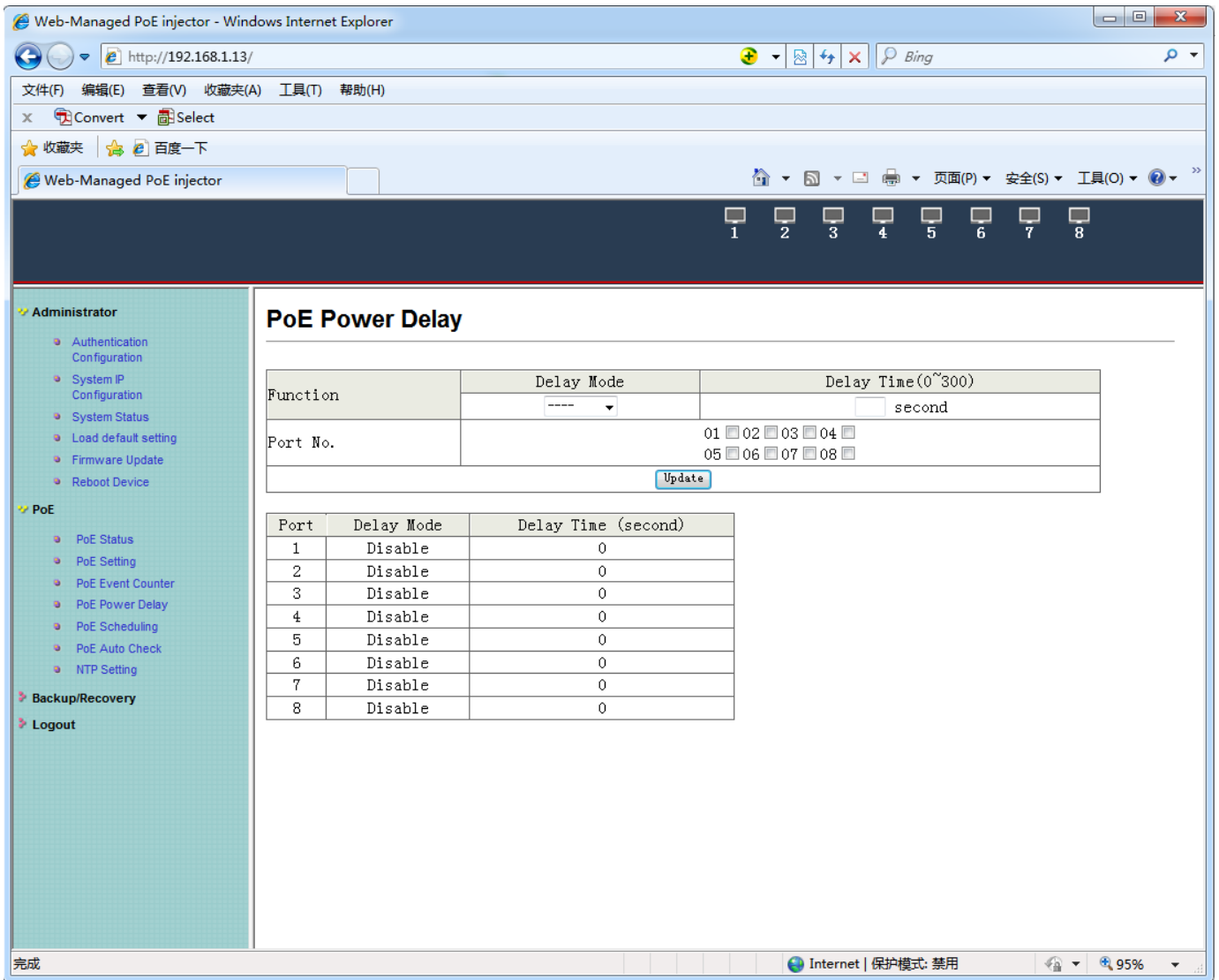
Below the table are "Clear" and "Refresh" buttons. A legend defines the event types:

- E0:Port Overload (ICUT) Event
- E1:Port Short Circuit Limit (ILIM) Event
- E2:Port MPS Error (DC Disconnect) Event
- E3:Port Severe Short Circuit Event
- E4:Port Thermal Shutdown Event
- E5:Port Temperature Limit Event
- E6:Main Power Overload Event
- E7:PoE Auto Check Timeout Event

## 8.4 PoE Power Delay

This page allows the administrator to configure the PoE power delay time for all physical ports in the Injector. After selecting the settings, you should press "Update" button to take effect. The setting will be reflected at the following window.

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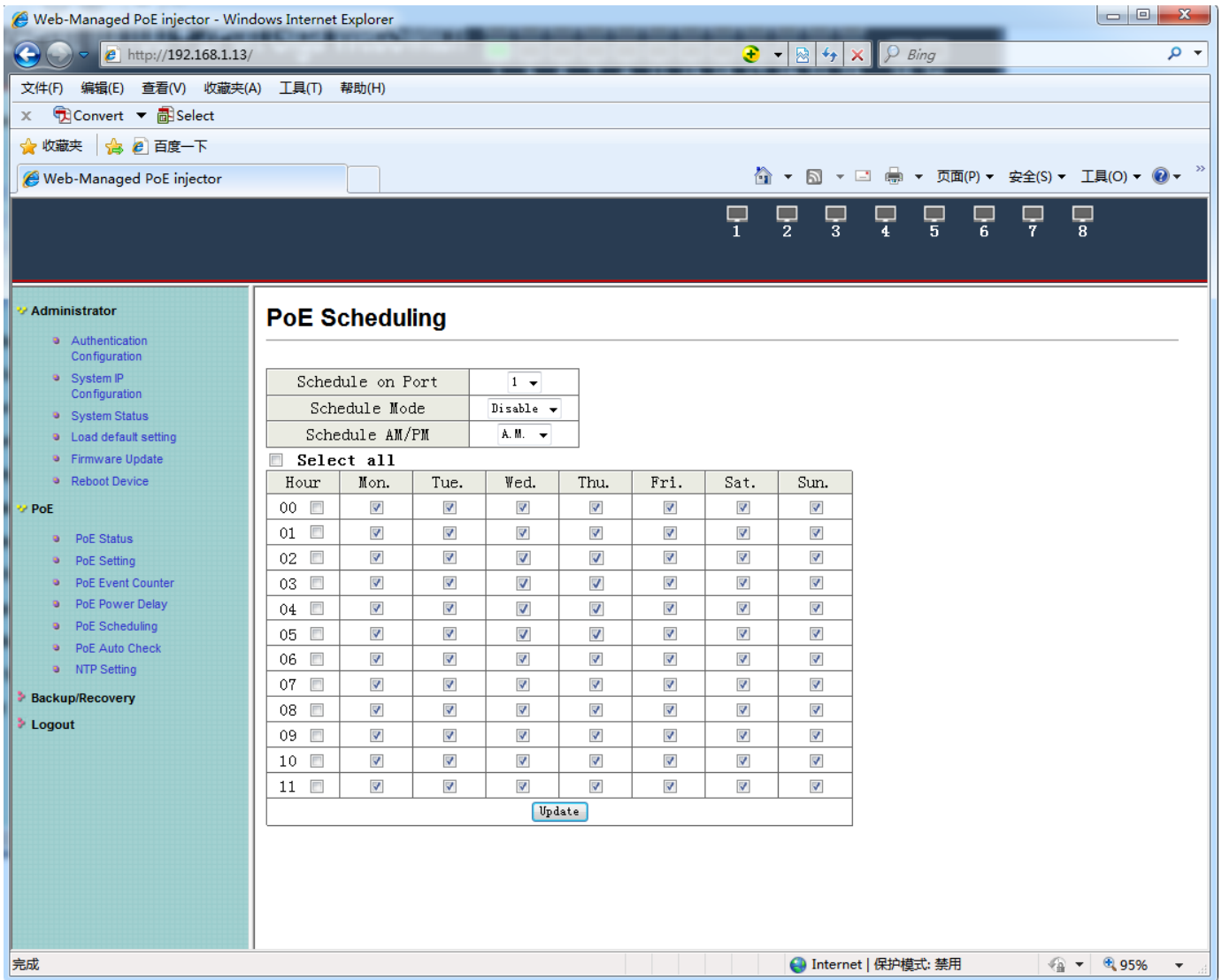


Field	Description
Delay Mode	Set all ports enable or disable power delay feature.
Delay Time	Set all ports power supplies delay time. This delay time is counted starting from the Injector. When the port is enabled this function and delay time is up, the PSW will begin supplies power.

## 8.5 PoE Scheduling

This page allows the administrator to configure schedule to begin supplies power of the PSE for all physical ports. After selecting the settings, you should press “Update” button to take effect.

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## 8.6 PoE Auto-check

This page allows the administrator to check if the PD device is online, according to the IP address. The Injector will regularly check if the device is online. If the device is dropped, the Injector can not check the IP address then it will restart the physical ports which binding with the IP. After selecting the settings, you should press “Update” button to take effect.

### Note:

The management network port should be connected to the LAN,so that The Injector can detect whether the device is online according to the IP address.

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The screenshot shows the 'PoE Auto-check' configuration page. The left sidebar lists various settings under 'Administrator' and 'PoE'. The main content area includes three configuration sections, each with an 'Update' button:

- Check Interval Time:** Function: Check Interval Time (5 (min) (1~240 min)), Wake Up Time (10 (s) (1~59 s)).
- Check IP Address:** Function: Port (1), Check IP Address (0 . 0 . 0 . 0).
- Port Select:** Enable Port (01, 02, 03, 04, 05, 06, 07, 08).

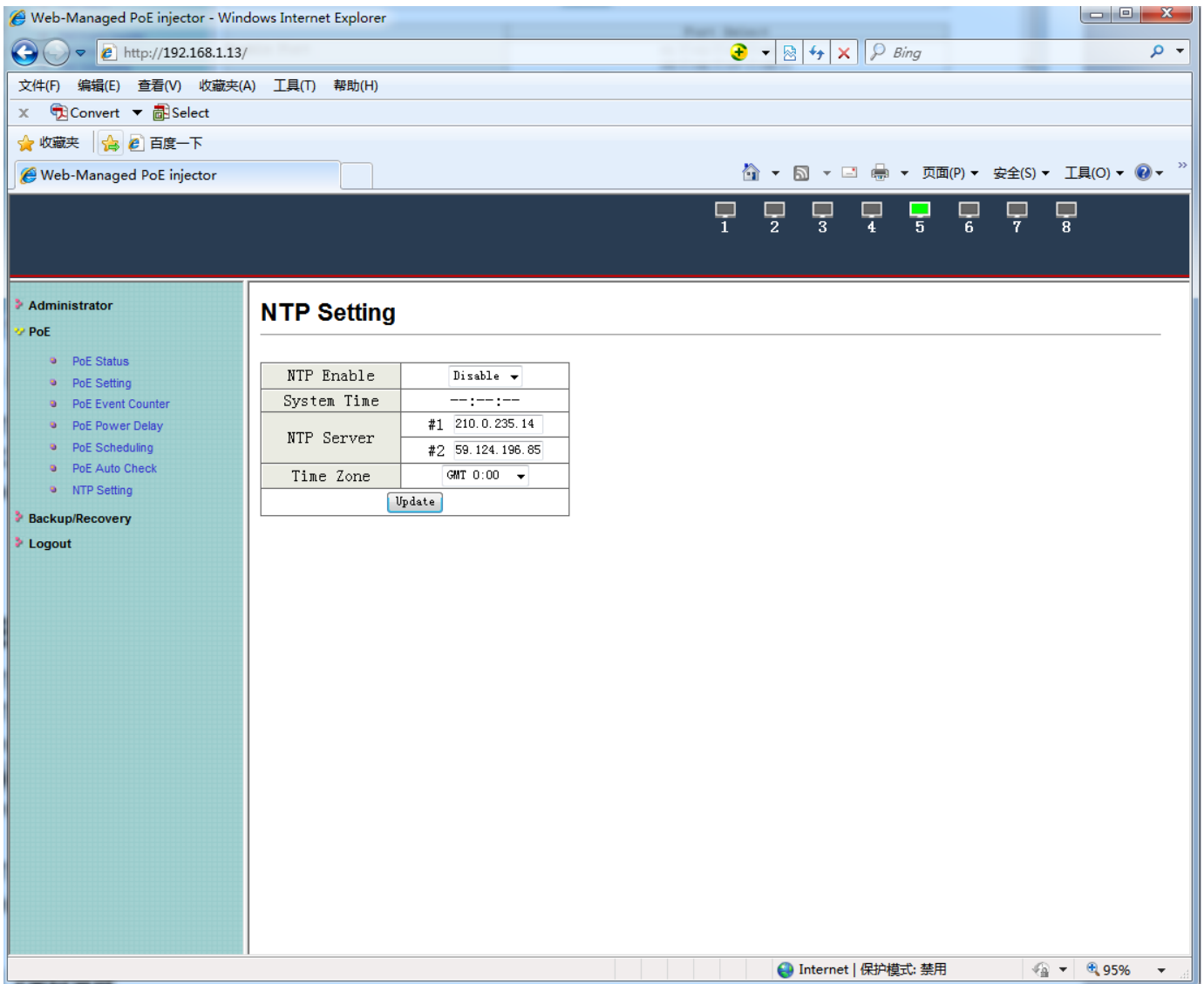
Below these sections is a table showing the status of 8 ports:

Port No.	Enable Status	IP Address
1	Disable	0.0.0.0
2	Disable	0.0.0.0
3	Disable	0.0.0.0
4	Disable	0.0.0.0
5	Disable	0.0.0.0
6	Disable	0.0.0.0
7	Disable	0.0.0.0
8	Disable	0.0.0.0

## 8.7 NTP Setting

This page allows the administrator to configure NTP Server and Time Zone to get Universal Time Coordinate. After selecting the settings, you should press “Update” button to take effect. This time will be reflected at the System Time window.

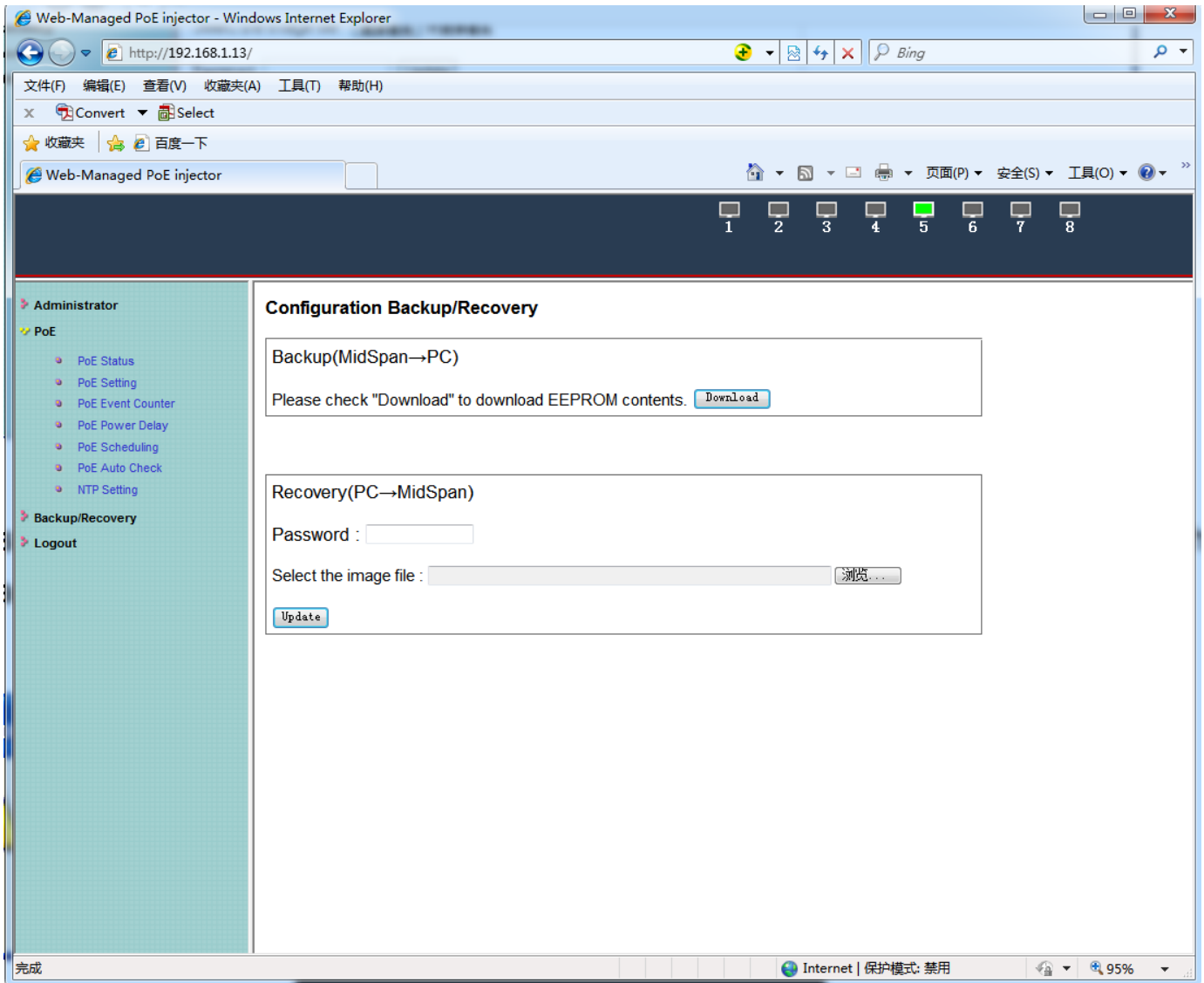
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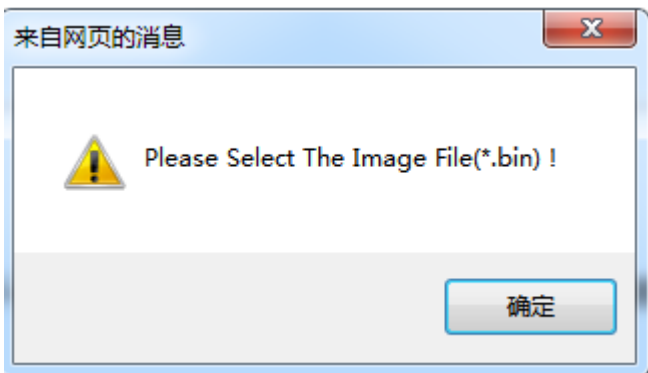
## 9 Backup/Recovery

This function provides the administrator with a method to backup/recovery the Injector configuration. The administrator can save configuration file to a specified file. If the administrator wants to recover the original configuration, which is saved at the specified path, just enter the password and then press the "Upload" button. Finally the backup configuration of the Injector will be recovered.

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The switch will check whether or not the uploaded file is correct. If the content of the uploaded file is incorrect, the switch will show a warning message.



## 10 Logout

The page provides the administrator to logout web page. Press “Accept” button to logout. Press “Back” button to browse the previous web page.

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