Configuration Setup of Digital House System

Physical   Config   CLI   Attributes

IOS Command Line Interface

```
Router>enable
Router#config terminal
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#hostname ISP
ISP(config)#int g0/0
ISP(config-if)#ip address 10.0.0.1 255.255.255.0
ISP(config-if)#no shut

ISP(config-if)#
%LINK-5-CHANGED: Interface GigabitEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0, changed state to up

ISP(config-if)#ex
ISP(config)#int g0/2
ISP(config-if)#ip address 209.165.201.225 255.255.255.224
ISP(config-if)#no shut

ISP(config-if)#
%LINK-5-CHANGED: Interface GigabitEthernet0/2, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/2, changed state to up

ISP(config-if)#ex
ISP(config)#
ISP#
%SYS-5-CONFIG_I: Configured from console by console

ISP#enable
ISP#config terminal
Enter configuration commands, one per line.  End with CNTL/Z.
ISP(config)#int g0/1
ISP(config-if)#ip address 209.165.200.225 255.255.255.224
ISP(config-if)#no shut

ISP(config-if)#
%LINK-5-CHANGED: Interface GigabitEthernet0/1, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/1, changed state to up

ISP(config-if)#ex
ISP(config)#ip dhcp excluded-address 209.165.201.225 209.165.201.229
ISP(config)#ip dhcp pool CELL
ISP(dhcp-config)#network 209.165.201.224 255.255.255.224
ISP(dhcp-config)#default-router 209.165.201.225
ISP(dhcp-config)#dns-server 10.0.0.254
ISP(dhcp-config)#ex
ISP(config)#ip dhcp excluded-address 209.165.200.225 209.165.200.229
ISP(config)#ip dhcp pool CLIENTS
ISP(dhcp-config)#network 209.165.200.224 255.255.255.224
ISP(dhcp-config)#default-router 209.165.200.225
ISP(dhcp-config)#dns-server 10.0.0.254
ISP(dhcp-config)#ex
ISP(config)#
```

Ctrl+F6 to exit CLI focus   Copy   Paste

☐ Top

DNS Server

Physical   Config   Services   **Desktop**   Programming   Attributes

IP Configuration   [X]

IP Configuration

○ DHCP   ● Static

IP Address   10.0.0.254

Subnet Mask   255.255.255.0

Default Gateway   10.0.0.1

DNS Server   10.0.0.254

IPv6 Configuration

○ DHCP   ○ Auto Config   ● Static

IPv6 Address   _____ / _____

Link Local Address FE80::20A:F3FF:FEC7:6A29

IPv6 Gateway

IPv6 DNS Server

802.1X

☐ Use 802.1X Security

Authentication   MD5   ▼

Username

Password

☐ Top

DNS Server

Physical   Config   **Services**   Desktop   Programming   Attributes

SERVICES
HTTP
DHCP
DHCPv6
TFTP
DNS
SYSLOG
AAA
NTP
EMAIL
FTP
IoT
VM Management
Radius EAP

DNS

DNS Service   ● On   ○ Off

Resource Records

Name   [_____]   Type [A Record ▼]

Address [_____]

[Add   ]   [Save   ]   [Remove   ]

No.	Name	Type	Detail
0	www.dhs.org	A Record	10.0.0.253

[DNS Cache]

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IoT-Server — Physical | Config | Services | Desktop | Programming | Attributes

IP Configuration

IP Configuration

- ○ DHCP   ● Static

IP Address	10.0.0.253
Subnet Mask	255.255.255.0
Default Gateway	10.0.0.1
DNS Server	10.0.0.254

IPv6 Configuration

- ○ DHCP   ○ Auto Config   ● Static

IPv6 Address	/
Link Local Address	FE80::240:BFF:FE7E:3E96
IPv6 Gateway	
IPv6 DNS Server	

802.1X

- ☐ Use 802.1X Security

Authentication	MD5
Username	
Password	

☐ Top

IoT-Server — Physical | Config | Services | Desktop | Programming | Attributes

SERVICES
- HTTP
- DHCP
- DHCPv6
- TFTP
- DNS
- SYSLOG
- AAA
- NTP
- EMAIL
- FTP
- IoT
- VM Management
- Radius EAP

IP Configuration

Registration Server

Service   ● On   ○ Off

	Username	Password
1	admin	admin

Delete

☐ Top

WAN

Physical | **Config** | **Attributes**

GLOBAL
Settings
TV Settings
CONNECTIONS
Frame Relay
DSL
Cable
INTERFACE
Serial0
Serial1
Serial2
Serial3
Modem4
Modem5
Ethernet6
Coaxial7

Ethernet6

Provider Network   ● Cable   ○ DSL

☐ Top

WAN

Physical | **Config** | **Attributes**

GLOBAL
Settings
TV Settings
CONNECTIONS
Frame Relay
DSL
Cable
INTERFACE
Serial0
Serial1
Serial2
Serial3
Modem4
Modem5
Ethernet6
Coaxial7

Cable

[Coaxial7 ▾]   <->   [Ethernet6 ▾]
Port   Port

From Port	To Port
Coaxial7	Ethernet6

[Add]   [Remove]

☐ Top

Home Gateway

Physical | Config | GUI | Attributes

GLOBAL
Settings
Algorithm Settings
INTERFACE
Internet
LAN
Wireless

Wireless Settings

SSID	Home
2.4 GHz Channel	6 - 2.437GHz
Coverage Range (meters)	250.00

Authentication

○ Disabled ○ WEP   WEP Key [ ]

○ WPA-PSK ● WPA2-PSK PSK Pass Phrase home1234

○ WPA   ○ WPA2

RADIUS Server Settings
IP Address [ ]
Shared Secret [ ]

Encryption Type AES

☐ Top

Home Gateway

Physical | Config | GUI | Attributes

GLOBAL
Settings
Algorithm Settings
INTERFACE
Internet
LAN
Wireless

Internet Settings

IP Configuration
● DHCP
○ Static

IP Address	209.165.200.230
Subnet Mask	255.255.255.224
Default Gateway	209.165.200.225
DNS Server	10.0.0.254

☐ Top

Laptop — — □ ✕

Physical | Config | **Desktop** | Programming | Attributes

IP Configuration ▐ X

Interface | Wireless0 ▼

IP Configuration

○ DHCP   ○ Static

IP Address   192.168.25.100

Subnet Mask   255.255.255.0

Default Gateway   192.168.25.1

DNS Server   10.0.0.254

IPv6 Configuration

● DHCP   ○ Auto Config   ○ Static

IPv6 Address   /

Link Local Address   FE80::20C:85FF:FE2D:E652

IPv6 Gateway

IPv6 DNS Server

☐ Top

Laptop — — □ ✕

Physical | **Config** | Desktop | Programming | Attributes

GLOBAL		Wireless0

GLOBAL

Settings

Algorithm Settings

INTERFACE

Wireless0

Bluetooth

Port Status   ☑ On

Bandwidth   300 Mbps

MAC Address   000C.852D.E652

SSID   Home

Authentication

○ Disabled   ○ WEP   WEP Key

○ WPA-PSK   ● WPA2-PSK   PSK Pass Phrase   home1234

                                    User ID
○ WPA   ○ WPA2
                                    Password

○ 802.1X   Method: MD5   ▼

                                    User Name

                                    Password

Encryption Type   AES   ▼

IP Configuration

● DHCP

○ Static

IP Address   192.168.25.100

Subnet Mask   255.255.255.0

IPv6 Configuration

● DHCP

○ Auto Config

○ Static

IPv6 Address   /

Link Local Address: FE80::20C:85FF:FE2D:E652

☐ Top

Laptop

Physical | Config | Desktop | Programming | Attributes

IoT Monitor [X]

IoT Server Address: 10.0.0.253

User Name: admin

Password: admin

[Login]

☐ Top

Laptop
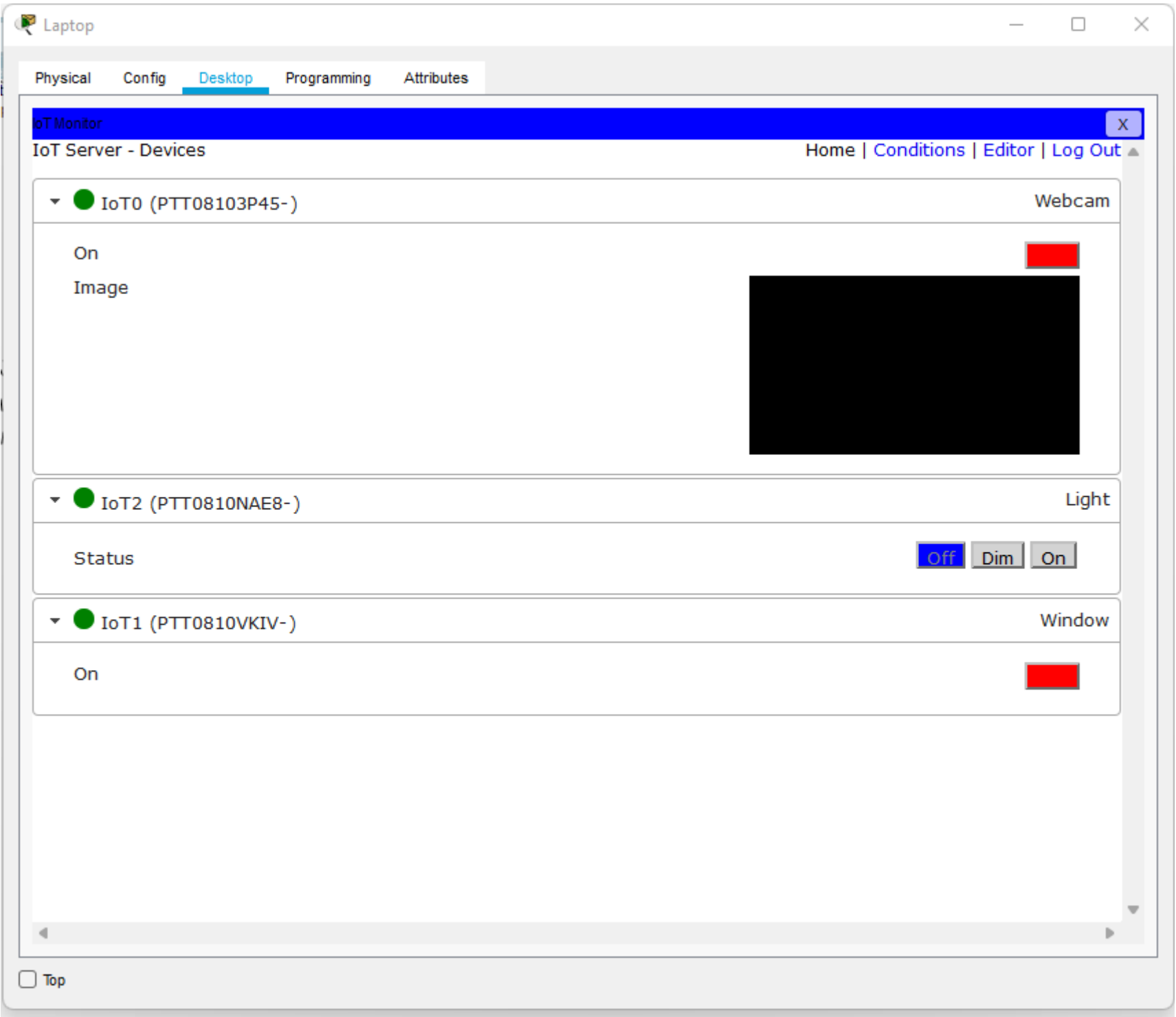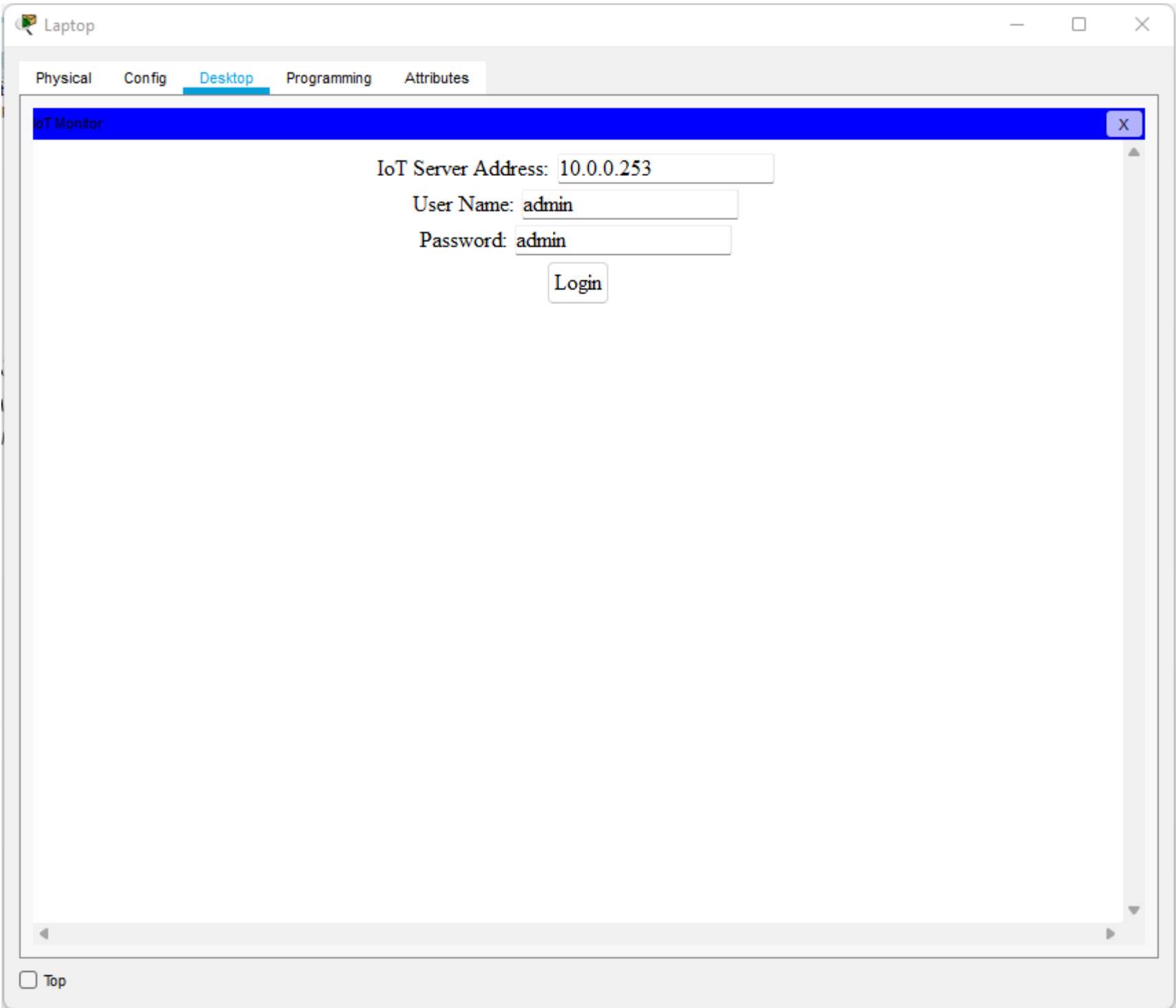
Physical | Config | Desktop | Programming | Attributes

IoT Monitor [X]

IoT Server - Devices   Home | Conditions | Editor | Log Out

▼ ● IoT0 (PTT08103P45-)   Webcam

　On   🟥

　Image

⬛

▼ ● IoT2 (PTT0810NAE8-)   Light

　Status   [Off] [Dim] [On]

▼ ● IoT1 (PTT0810VKIV-)   Window

　On   🟥

☐ Top

Smartphone

Physical | Config | Desktop | Programming | Attributes

IP Configuration X

Interface: Wireless0

IP Configuration

- ● DHCP   ○ Static

IP Address: 169.254.59.105

Subnet Mask: 255.255.0.0

Default Gateway: 0.0.0.0

DNS Server: 0.0.0.0

IPv6 Configuration

- ● DHCP   ○ Auto Config   ○ Static

IPv6 Address: /

Link Local Address: FE80::2D0:D3FF:FE35:3B69

IPv6 Gateway:

IPv6 DNS Server:

☐ Top

Smartphone

Physical | Config | Desktop | Programming | Attributes

IoT Monitor X

IoT Server Address: 10.0.0.253

User Name: admin

Password: admin

Login

☐ Top

Smartphone

Physical | Config | **Desktop** | Programming | Attributes

IoT Server - Devices　　　　　　　　　　　　　　　　　Home | Conditions | Editor | Log Out ▲

▸ ● IoT0 (PTT08103P45-)　　　　　　　　　　　　　　　　　　Webcam

▸ ● IoT2 (PTT0810NAE8-)　　　　　　　　　　　　　　　　　　Light

▸ ● IoT1 (PTT0810VKIV-)　　　　　　　　　　　　　　　　　　Window

☐ Top

IoT0

Specifications | I/O Config | Physical | **Config** | Thing Editor | Programming | Attributes

GLOBAL
Settings
Algorithm Settings
Files
INTERFACE
Wireless0

Global Settings

Display Name　IoT0
Serial Number　PTT08103P45-

Gateway/DNS IPv4
◉ DHCP
○ Static
Gateway　　192.168.25.1
DNS Server　10.0.0.254

Gateway/DNS IPv6
◉ DHCP
○ Auto Config
○ Static
IPv6 Gateway
IPv6 DNS Server

IoT Server
○ None
○ Home Gateway
◉ Remote Server
Server Address　10.0.0.253
User Name　　　admin
Password　　　　admin
　　　　　　　　　　　　　　　　　　　　　　　[Refresh]

☐ Top　　　　　　　　　　　　　　　　　　　　　　　[Advanced]

IoT0

Specifications | I/O Config | Physical | Config | Thing Editor | Programming | Attributes

GLOBAL
Settings
Algorithm Settings
Files

INTERFACE
Wireless0

Wireless0

Port Status	☑ On
Bandwidth	300 Mbps
MAC Address	0030.F21A.26CA
SSID	Home

Authentication

- ○ Disabled
- ○ WPA-PSK
- ○ WPA
- ○ 802.1X

- ○ WEP
- ◉ WPA2-PSK
- ○ WPA2

Method: MD5

WEP Key: [ ]
PSK Pass Phrase: home1234
User ID: [ ]
Password: [ ]
User Name: [ ]
Password: [ ]

Encryption Type: AES

IP Configuration
- ◉ DHCP
- ○ Static

IP Address: 192.168.25.101
Subnet Mask: 255.255.255.0

IPv6 Configuration
- ◉ DHCP
- ○ Auto Config
- ○ Static

IPv6 Address: [ ] / [ ]
Link Local Address: FE80::230:F2FF:FE1A:26CA

IoT0

Specifications | I/O Config | Physical | Config | Thing Editor | Programming | Attributes

Network Adapter	PT-IOT-NM-1W
Network Adapter 2	None
Digital Slots	1
Analog Slots	0
USB Ports	0
Bluetooth	☐ Built-in
Desktop	☐ Show
Usage	◉ Smart Device ○ Component

☐ Top

Advanced

Conditioner H

Window 1

Specifications | Physical | **Config** | Attributes

GLOBAL
- Settings
- Algorithm Settings
- Files

INTERFACE
- FastEthernet0

Global Settings

Display Name: Conditioner H
Serial Number: PTT08101V30-

Gateway/DNS IPv4
- ◉ DHCP
- ○ Static
- Gateway: 192.168.25.1
- DNS Server: 10.0.0.254

Gateway/DNS IPv6
- ○ DHCP
- ○ Auto Config
- ◉ Static
- IPv6 Gateway:
- IPv6 DNS Server:

IoT Server
- ○ None
- ○ Home Gateway
- ◉ Remote Server
- Server Address: 10.0.0.253
- User Name: admin
- Password: admin

[Refresh]

Window 2

Specifications | Physical | **Config** | Attributes

GLOBAL
- Settings
- Algorithm Settings
- Files

INTERFACE
- FastEthernet0

FastEthernet0

Port Status: ☑ On
Bandwidth: ○ 100 Mbps ○ 10 Mbps ☑ Auto
Duplex: ○ Half Duplex ◉ Full Duplex ☑ Auto
MAC Address: 0007.ECA2.C17D

IP Configuration
- ◉ DHCP
- ○ Static
- IP Address: 192.168.25.133
- Subnet Mask: 255.255.255.0

IPv6 Configuration
- ○ DHCP
- ○ Auto Config
- ◉ Static
- IPv6 Address: /
- Link Local Address: FE80::207:ECFF:FEA2:C17D

☐ Top   [Advanced]