



# User Manual

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DPA

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# Chapter One Overview

## 1.1 Introduction

DPA is a SIP paging gateway, an advanced communication system that supports HD video and HD audio. It supports H.264 video compression format and provides excellent video quality under 1080P resolution.

DPA supports RTP/RTSP/SIP/ONVIF/AUTO PROVISION/802.1X protocol, etc. It provides reliable audio/video intercom services for users, and can control external devices such as door locks and alarm lights to achieve rich management and control functions. It is widely used in various application scenarios such as intercom, security, broadcasting, and parks.

## 1.2 Feature

- Access Control
  - One SIP line, Double SIP servers
  - Access control unlock:DTMF, HTTP
  - Broadcasting function, Audio output 36W
  - Full two-way
  - Auto answer by default
  - Remote control via URL / URI
  - Speed dial
- ManagementFunction
  - Automatic configuration: FTP/TFTP/HTTP/HTTPS/PPPoE
  - Configuration via HTTP / HTTPS web
  - SNMP/TR069 , NMS cloud management
  - Time synchronization service / Daylight saving time
  - Network upgrade firmware
  - System log
  - Configuration backup / restore
- Audio Function
  - HD audio
  - Two-way audio streaming
  - Wideband codec: G.722
  - Narrowband codec :PCMA, PCMU, G.729, G723\_53, G723\_63, G726\_32
  - Echo cancellation of G.168
  - Voice Activity Detection (VAD)
  - Comfort noise generator (CNG)
  - Acoustic echo cancellation audio output
- Protocol and network
  - SIPv1 (RFC 2543) 、v2 (RFC 3261)
  - SIP based on TLS、SRTP
  - RTSP, ONVIF
  - IPv4/IPv6
  - TCP/UDP

- RTP/RTCP、RFC 2198、RFC 1889
- HTTP/HTTPS/FTP/TFTP
- ARP/RARP/ICMP/NTp
- DNS SRV/A Query/NATPR
- Primary and secondary DNS server
- Private network penetration protocol, session timer
- 802.1p/q、DSCP、802.1X
- DHCP/Static/PPPoE
- DTMF mode: In-Band、RFC 2833、SIP INFO

## 1.3 Hardware Introduction

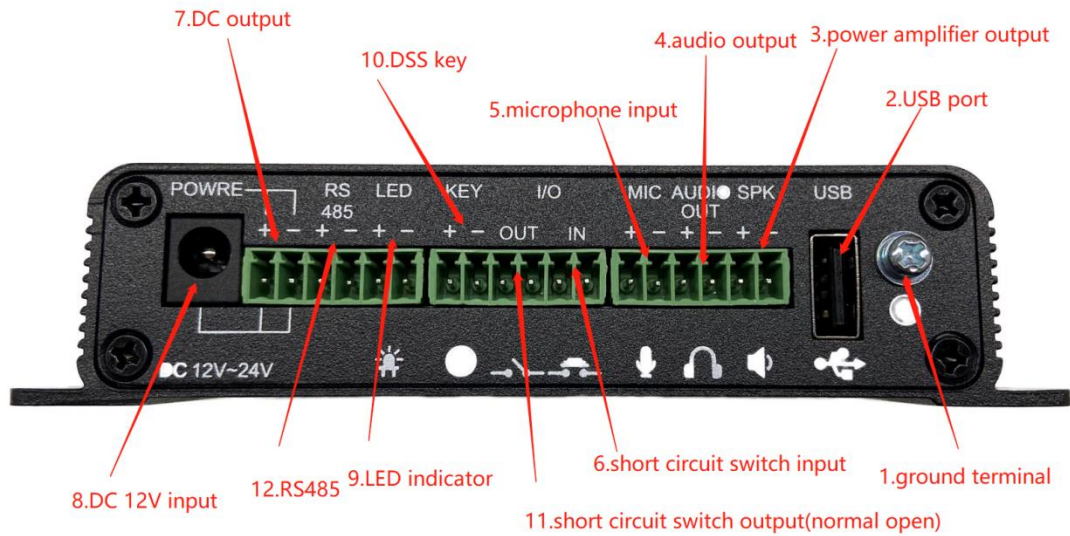
### • Front View



(Picture 1)

| Item | Description                                                                                                                                                            |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1    | Ethernet interface: Standard RJ45 interface, 10 / 100M adaptive, it is recommended to use category 5 or super category 5 network cable                                 |
| 2    | Camera network interface: external webcam can be connected to realize video call                                                                                       |
| 3    | Network status indication. No flash: no network connection. Slow flash: the network connection is normal. Fast flash: the SIP account has been registered successfully |
| 4    | External audio signal input, external background sound source can be connected                                                                                         |
| 5    | It can be connected to an external recorder to output the mixed signal of both sides of the intercom                                                                   |
| 6,8  | Increase or decrease the volume. You can hear the change of ring tone in idle time. You can directly control the volume during a call                                  |
| 7    | TF card slot                                                                                                                                                           |
| 9    | Long press to restore the default configuration of the device                                                                                                          |
| 10   | Power indication                                                                                                                                                       |

Back view



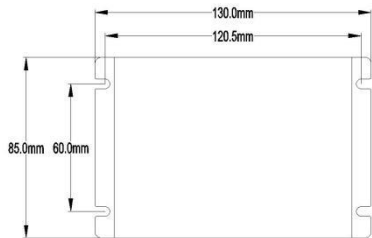
(Picture II)

| Item | Description                                                                                                                                             |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1    | The grounding terminal shall be grounded in case of sound interference;                                                                                 |
| 2    | USB port, which can be connected to USB flash disk                                                                                                      |
| 3    | The power amplifier output interface can be externally connected to a passive speaker. Maximum output power 36W (corresponding to DC24V DC input)       |
| 4    | Audio output port ,can also be externally connected to the power amplifier                                                                              |
| 5    | Microphone input port                                                                                                                                   |
| 6    | The short-circuit input interface can be used to directly control the short-circuit output interface or the input interface of other security equipment |
| 7    | DC12V / 24 output interface                                                                                                                             |
| 8    | Power socket, DC 12v-24v                                                                                                                                |
| 9    | External LED indication interface                                                                                                                       |
| 10   | Speed dial key interface                                                                                                                                |
| 11   | Short circuit switch output interface (normally open)                                                                                                   |

# Chapter Two Installation

## 2.1 Check the contents of the package

Please refer to the packing list below to check the integrity of the packing.

|                |                                                                                    |                        |                                                                                      |
|----------------|------------------------------------------------------------------------------------|------------------------|--------------------------------------------------------------------------------------|
| Paging gateway |  |                        |                                                                                      |
| Accessories    |  | Installation dimension |  |

## 2.2 Installation Step

### Step1: Power on

Connect the supplied power adapter to the power port, and then plug the adapter into an available power outlet. Green LED lights(power) on means power supply works well, Green LED lights(net) flash slowly means ethernet runs well

Please use 12V DC/1A power adapter, or POE

### Step2: Connect Network

Connect one end of the Ethernet cable to the Internet port on the back of the DPA, and the other end to the wall network jack, then green LED lights(net) flash slowly.

### Step3: Connect to computer

Connect a speed dial button (see in picture ⑧ II) Long push speed dial key for 10s, device will auto speak IP address.

### Step4: Device configuration

Start a web browser on the computer and enter the phone's IP address into the address bar. If the address is correct, a login screen will appear, enter the user name and

password to log in to the web console to log in to the phone webpage.  
Default account & password: admin/admin。

DPA support DHCP/Static/PPPoE to search the IP address

## Chapter Three Feature

### 3.1 Dial

#### 3.1.1 One touch dial

Click "Door Phone-Call fature" in the left navigation bar to enter the phone configuration, In the "Call Button Selection" item, you can set 2 call button, each button can set 4 commonly used indoor unit numbers, of which "Call Button Day 1 ~ 3" is the outgoing number during the day, Call Button Night is the outgoing number at night, the number is a one-touch dial button The dialed number; Round Robin Time Out is the time-out period . If a number times out and does not answer, the door phone will automatically dial the next number (only one Call Button Night umber at night); In Day Night Setting, you can configure the day and night start time to determine the number dialed at the current time;

**DINSTAR** Status Account Network Equipment Maintenance Security Default password: 2022/04/01 07:58

**Call Feature**

**Timeout For Answer**

Outgoing Call: 60 (30~120s)

Incoming Call: 65 (30~120s)

**Hang Up After RTP Time Out**

Time Out: 10 (5~60s)

**Call Button**

Call Button Selection: 1

Call Button Day 1: 105

Call Button Day 2: 105

Call Button Day 3: 105

Call Button Night: 105

Round Robin Time Out: 60 (5~60s)

**Day Night Setting**

Day Start: Hour: 9 Min: 0

Night Start: Hour: 19 Min: 0

**Max Call Duration**

Max Call Duration: 5 (0~30min)

**Local RTP**

Max RTP Port: 12000 (1024~65535)

### 3.2 DTMF Open Door

Click “Equipment- remote control”, in “Open Door By DTMF Code”, click “Enabled”to configure DTMF Code to open door.

When DPA call indoor monitor, can push the open door of the indoor monitor to send the DTMF signal to control the door.

DINSTAR

Status Account Network **Equipment** Maintenance Security

Default password.  
2022/04/01 08:00

Basic  
Time&Date  
Call Feature  
Voice  
Ringtones  
Action URL  
Multicast  
Intercom  
output  
**remote control**  
Alarm  
Camera  
Time broadcast  
Audio and video

### Open Door By DTMF Code

|        |         |
|--------|---------|
| Active | Enabled |
| Door 1 | 1       |

### Control PTZ by DTMF code

|                  |                                                             |
|------------------|-------------------------------------------------------------|
| PTZ protocol     | PELCO-D                                                     |
| PTZ baud rate    | 2400                                                        |
| PTZ address code | 1 <small>(The range of PTZ address code is 0 ~ 255)</small> |
| turn left        | 0                                                           |
| turn right       | 0                                                           |
| turn up          | 0                                                           |
| turn down        | 0                                                           |
| Stop spinning    | 0                                                           |

### Identify equipment

Identify
Submit

### Open Door By HTTP

|          |         |
|----------|---------|
| Active   | Enabled |
| Username | admin   |
| Password | *****   |

### Short circuit output Control

|        |      |
|--------|------|
| output | 1    |
| Action | Open |

DPA supports 3 types DTMF: Inband、RFC 2833、SIP INFO

## Chapter Four Web configuration

Connect a speed dial button (see in picture ⑧ II) Long push speed dial key for 10s, device will

auto speak IP address.

Step4: Device configuration

Start a web browser on the computer and enter the phone's IP address into the address bar. If the address is correct, a login screen will appear, enter the user name and password to log in to the web console to log in to the phone webpage.

Default account & password: admin/admin

### 4.1 Status->Basic

Basically the Status in Web menu showing the Product information, Network information, you can roughly know the product model, network connection & account registration, As shown below,

Paging Gateway

Status

Account

Network

equipment

Maintenance

Security

Default password.  
2021/09/30 07:37

Basic

Product Information

|                  |                     |
|------------------|---------------------|
| Model            | PG-300              |
| MAC Address      | f8-a0-3d-64-07-1e   |
| SN               | de41-0914-0000-0005 |
| Firmware Version | 1.80.6.0.205        |
| Hardware Version | 80.1.0.0.0.6.0      |
| Uptime           | 0 day 22 h 15 min   |

Network Information

|                      |      |
|----------------------|------|
| LAN Mode (IPv4/IPv6) | IPv4 |
|----------------------|------|

IPv4

|                 |                 |
|-----------------|-----------------|
| LAN Port Type   | DHCP            |
| LAN IP Address  | 172.25.1.172    |
| LAN Subnet Mask | 255.255.255.0   |
| LAN Gateway     | 172.25.1.1      |
| LAN DNS1        | 172.16.0.1      |
| LAN DNS2        | 114.114.114.114 |

Other

|                 |                |
|-----------------|----------------|
| LAN Link Status | Connected      |
| Primary NTP     | 0.pool.ntp.org |
| Secondary NTP   | 1.pool.ntp.org |
| VPN Status      | Disabled       |
| NMS Status      | Disabled       |

Account Information

|          |                |
|----------|----------------|
| Account1 | 881@172.16.0.8 |
|          | Registered     |
| Account2 | None@None      |
|          | None@None      |

|                     |                                                                                                                                                                                                                                                                                                                                   |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Information | Display the basic information of the settings, such as Model, MAC Address (physical address of the IP device), Firmware Version, and Hardware Version.                                                                                                                                                                            |
| Network Information | <ul style="list-style-type: none"> <li>• Display the set network status, Ex:LAN Port Type (DHCP/Static IP/PPPoE)、LAN Link Status、LAN IP Address、LAN Subnet Mask、</li> <li>• LAN Gateway、LAN DNS1、LAN DNS2、Primary NYP and Secondary NTP (NTP server is used to automatically synchronize the time from the Internet) .</li> </ul> |
| Account Information | Display device account information and registration status (account user name, registration server address and registration result).                                                                                                                                                                                              |

## 4.2 Account

The account in web GUI Include

1. Basic system information;
2. Advanced account display & configure;
3. Audio, video codec display & configure.

### 4.2.1 Account->Basic

| Paging Gateway                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Status        | Account     | Network | equipment | Maintenance | Security                                     |        |            |         |               |        |         |              |     |               |     |          |     |          |       |           |            |      |      |                      |      |             |  |           |  |      |      |                      |      |             |  |        |          |  |  |           |  |      |      |                  |  |      |      |                |     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------|---------|-----------|-------------|----------------------------------------------|--------|------------|---------|---------------|--------|---------|--------------|-----|---------------|-----|----------|-----|----------|-------|-----------|------------|------|------|----------------------|------|-------------|--|-----------|--|------|------|----------------------|------|-------------|--|--------|----------|--|--|-----------|--|------|------|------------------|--|------|------|----------------|-----|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |             |         |           |             | Default password: 881<br>2021/09/30 07:36:30 |        |            |         |               |        |         |              |     |               |     |          |     |          |       |           |            |      |      |                      |      |             |  |           |  |      |      |                      |      |             |  |        |          |  |  |           |  |      |      |                  |  |      |      |                |     |
| <div> <div> Basic<br/>Advanced<br/>Codecs </div> <div> <h3>SIP Account</h3> <table> <tr><td>Status</td><td>Registered</td></tr> <tr><td>Account</td><td>Account1: 881</td></tr> <tr><td>Active</td><td>Enabled</td></tr> <tr><td>Display Name</td><td>881</td></tr> <tr><td>Register Name</td><td>881</td></tr> <tr><td>Username</td><td>881</td></tr> <tr><td>Password</td><td>*****</td></tr> </table> <h3>SIP Server 1</h3> <table> <tr><td>Server IP</td><td>172.16.0.8</td><td>Port</td><td>2080</td></tr> <tr><td>Registration Expires</td><td>1800</td><td colspan="2">(30~65535s)</td></tr> </table> <h3>SIP Server 2</h3> <table> <tr><td>Server IP</td><td></td><td>Port</td><td>5060</td></tr> <tr><td>Registration Expires</td><td>1800</td><td colspan="2">(30~65535s)</td></tr> </table> <h3>Outbound Proxy Server</h3> <table> <tr><td>Active</td><td>Disabled</td><td colspan="2"></td></tr> <tr><td>Server IP</td><td></td><td>Port</td><td>5060</td></tr> <tr><td>Backup Server IP</td><td></td><td>Port</td><td>5060</td></tr> </table> <h3>Transport Type</h3> <table> <tr><td>Transport Type</td><td>UDP</td></tr> </table> <h3>NAT</h3> </div> </div> |               |             |         |           |             |                                              | Status | Registered | Account | Account1: 881 | Active | Enabled | Display Name | 881 | Register Name | 881 | Username | 881 | Password | ***** | Server IP | 172.16.0.8 | Port | 2080 | Registration Expires | 1800 | (30~65535s) |  | Server IP |  | Port | 5060 | Registration Expires | 1800 | (30~65535s) |  | Active | Disabled |  |  | Server IP |  | Port | 5060 | Backup Server IP |  | Port | 5060 | Transport Type | UDP |
| Status                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Registered    |             |         |           |             |                                              |        |            |         |               |        |         |              |     |               |     |          |     |          |       |           |            |      |      |                      |      |             |  |           |  |      |      |                      |      |             |  |        |          |  |  |           |  |      |      |                  |  |      |      |                |     |
| Account                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Account1: 881 |             |         |           |             |                                              |        |            |         |               |        |         |              |     |               |     |          |     |          |       |           |            |      |      |                      |      |             |  |           |  |      |      |                      |      |             |  |        |          |  |  |           |  |      |      |                  |  |      |      |                |     |
| Active                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Enabled       |             |         |           |             |                                              |        |            |         |               |        |         |              |     |               |     |          |     |          |       |           |            |      |      |                      |      |             |  |           |  |      |      |                      |      |             |  |        |          |  |  |           |  |      |      |                  |  |      |      |                |     |
| Display Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 881           |             |         |           |             |                                              |        |            |         |               |        |         |              |     |               |     |          |     |          |       |           |            |      |      |                      |      |             |  |           |  |      |      |                      |      |             |  |        |          |  |  |           |  |      |      |                  |  |      |      |                |     |
| Register Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 881           |             |         |           |             |                                              |        |            |         |               |        |         |              |     |               |     |          |     |          |       |           |            |      |      |                      |      |             |  |           |  |      |      |                      |      |             |  |        |          |  |  |           |  |      |      |                  |  |      |      |                |     |
| Username                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 881           |             |         |           |             |                                              |        |            |         |               |        |         |              |     |               |     |          |     |          |       |           |            |      |      |                      |      |             |  |           |  |      |      |                      |      |             |  |        |          |  |  |           |  |      |      |                  |  |      |      |                |     |
| Password                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | *****         |             |         |           |             |                                              |        |            |         |               |        |         |              |     |               |     |          |     |          |       |           |            |      |      |                      |      |             |  |           |  |      |      |                      |      |             |  |        |          |  |  |           |  |      |      |                  |  |      |      |                |     |
| Server IP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 172.16.0.8    | Port        | 2080    |           |             |                                              |        |            |         |               |        |         |              |     |               |     |          |     |          |       |           |            |      |      |                      |      |             |  |           |  |      |      |                      |      |             |  |        |          |  |  |           |  |      |      |                  |  |      |      |                |     |
| Registration Expires                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1800          | (30~65535s) |         |           |             |                                              |        |            |         |               |        |         |              |     |               |     |          |     |          |       |           |            |      |      |                      |      |             |  |           |  |      |      |                      |      |             |  |        |          |  |  |           |  |      |      |                  |  |      |      |                |     |
| Server IP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |               | Port        | 5060    |           |             |                                              |        |            |         |               |        |         |              |     |               |     |          |     |          |       |           |            |      |      |                      |      |             |  |           |  |      |      |                      |      |             |  |        |          |  |  |           |  |      |      |                  |  |      |      |                |     |
| Registration Expires                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1800          | (30~65535s) |         |           |             |                                              |        |            |         |               |        |         |              |     |               |     |          |     |          |       |           |            |      |      |                      |      |             |  |           |  |      |      |                      |      |             |  |        |          |  |  |           |  |      |      |                  |  |      |      |                |     |
| Active                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Disabled      |             |         |           |             |                                              |        |            |         |               |        |         |              |     |               |     |          |     |          |       |           |            |      |      |                      |      |             |  |           |  |      |      |                      |      |             |  |        |          |  |  |           |  |      |      |                  |  |      |      |                |     |
| Server IP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |               | Port        | 5060    |           |             |                                              |        |            |         |               |        |         |              |     |               |     |          |     |          |       |           |            |      |      |                      |      |             |  |           |  |      |      |                      |      |             |  |        |          |  |  |           |  |      |      |                  |  |      |      |                |     |
| Backup Server IP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |               | Port        | 5060    |           |             |                                              |        |            |         |               |        |         |              |     |               |     |          |     |          |       |           |            |      |      |                      |      |             |  |           |  |      |      |                      |      |             |  |        |          |  |  |           |  |      |      |                  |  |      |      |                |     |
| Transport Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | UDP           |             |         |           |             |                                              |        |            |         |               |        |         |              |     |               |     |          |     |          |       |           |            |      |      |                      |      |             |  |           |  |      |      |                      |      |             |  |        |          |  |  |           |  |      |      |                  |  |      |      |                |     |

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|              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SIP Account  | <p>Display and configure basic account information:</p> <p><b>Status:</b> Display account registration results;</p> <p><b>Display Label:</b> The label displayed on the screen;</p> <p><b>Display Name:</b> Send to another caller for display;</p> <p><b>Register Name:</b> Assigned by SIP server provider;</p> <p><b>User Name:</b> Deploy SIP account by SIP server;</p> <p><b>Password:</b> Certification authorization while do the registration &amp; call.;</p>   |
| SIP Server 1 | <p>Display and configure master server information:</p> <p><b>Server IP:</b> SIP server address can be a domain name or an IP address;</p> <p><b>Registration Period:</b> The DPA will automatically re-register within the registration period;</p>                                                                                                                                                                                                                      |
| SIP Server 2 | <p>Display and configure secondary server information:</p> <p><b>If registration secondary SIP server, the DPA will go to both Primary/secondary SIP server together at the same time.</b></p> <p>If registration fails on the primary SIP server, the DPA will go to the secondary SIP server for registration.</p> <p><b>Notice :</b> The secondary SIP server is used for backup, if the user environment does not have a backup SIP server, it can be left blank;</p> |

|                           |                                                                                                                                                                                                                                                                                                                                                                                    |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SIP Outbound Proxy Server | <p>Display and configure proxy server settings。<br/>The proxy server is used to receive all activated request messages and route them to the designated SIP server.</p> <p><b>Notice:</b> If configured, If a proxy server is configured, all SIP request messages from DPAs will be sent to the proxy server forcibly.</p>                                                        |
| Transport Type            | <p>Display and configure the transmission type of SIP messages:</p> <p><b>UDP:</b> UDP is an unreliable but very effective transport layer protocol;</p> <p><b>TCP:</b> Reliable but less efficient transport layer protocol;</p> <p><b>TLS:</b> Safe and reliable transport layer protocol;</p> <p><b>DNS-SRV:</b> Is a type of DNS record used to specify the server address</p> |
| NAT                       | <p>Display and configure NAT (Network Address Translator):</p> <p><b>STUN:</b> Simple traversal of UDP on NATS is the solution to all NAT problems.</p> <p><b>Notice:</b> By default, NAT is disabled.</p>                                                                                                                                                                         |
| VPN Preferred             | <p>Device can send or receive command and media data via VPN port if device enable the VPN.</p> <p><b>Notice:</b> By default, VPN is enabled.</p>                                                                                                                                                                                                                                  |

## 4.2.2 Account-Advanced

This advanced web GUI can select account and also can do configure operation, such like DTMF, CALL, NAT, KEEP ALIVE, see as below.

Status
Account
Network
Equipment
Maintenance
Security

Default password.  
2022/04/01 08:04

Basic
Advanced
Codecs

### SIP Account

Account
Account1: 104

### DTMF

Type
RFC2833

DTMF Info Type
DTMF-Relay

DTMF Payload
101 (96~127)

### Call

Min Local SIP Port
20000 (1024~65535)

Max Local SIP Port
20299 (1024~65535)

Use New SIP Port When Registration Fail
Enabled

Peer to peer call
Disabled

Auto Answer
Enabled

Ringtones
Default

Invite with user=phone
Disabled

Send MAC Info
Disabled

Privacy Number
None

Trust SIP Server Only
Disabled

TLS Version
Adaptive

### Encryption

SRTP
Disabled

NAT

UDP Keep Alive Messages

Enabled

UDP Alive Msg Interval

30

(5~60s)

RPort

Disabled

Keep Alive

Active

Disabled

Keep Alive Interval

15

(5~3600s)

Keep Alive Error Code

(100~699)

Others

Sync Time from SIP Server

Disabled

Use IPv6 Stateless Address

Enabled

SIP Registration Retry Timer

100

(1~1800s)

Unregister When Reboot

Disabled

Submit

Cancel

\*

|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SIP account | Display the current account settings or select the account to display.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| DTMF        | Display the DTMF type (Inband、RFC 2833、Info)、DTMF info type (DTMF-Relay、DTMF、Telephone-Event)、DTMF payload (96~127)。                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Call        | <p>Display call configure items, include local SIP port range(It will prompt when set port range occupied, Use New SIP Port When Registration Fail, Peer to peer call, Auto Answer, Ringtones, Invite with user=phone, Send MAC Info, Privacy Number, Trust SIP Server Only, TLS Version)</p> <p><b>Min Local SIP Port:</b> cannot be empty, default 20000,Only integers within (1024~65535) can be filled。</p> <p><b>Max Local SIP Port:</b> cannot be empty, default 20299,Only integers within (1024~65535) can be filled。</p> <p><b>Use New SIP Port When Registration Fail:</b> default enable.</p> <p><b>Peer to peer call:</b> Enable device call from server address without pre-registration.</p> <p><b>Auto Answer:</b> Enable device auto answer when call in, default enable.</p> <p><b>Ringtones:</b> Enable to choose phone ringtone.</p> <p><b>Invite with user=phone:</b> Enable the call msg device send include user=phone.</p> <p><b>Send MAC Info:</b> Enable device bring its MAC address when do the registration.</p> <p><b>Privacy Number:</b> default empty, (empty、ID、PAI) available.</p> <p><b>Trust SIP Server Only:</b> Device only receive SIP command from trust SIP server.</p> <p><b>TLS version:</b> Enable device do the configure for TLS version,</p> |

|        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        | default<br>Adaptive (Adaptive、TLS 1.0、TLS 1.1、TLS 1.2)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| NAT    | <p>DPA's can send valid data packets that keep the communication port open to the NAT server;</p> <p><b>UDP Keep Alive Messages:</b> options, default Enabled, can choose (Enabled and Disabled);</p> <p><b>UDP Alive Msg Interval:</b> When UDP Keep Alive Messages is Enabled, it cannot be empty, the default is 30, [1,63] characters, only integers within [5,60] can be filled; when UDP Keep Alive Messages is Disabled, this item is not available Edit status</p> <p><b>RPort:</b> optiond, default Disabled, can choose (Enabled and Disabled);</p> |
| Others | <p><b>Sync Time from SIP Server:</b> Enable device sync time via SIP server, default Disabled.</p> <p><b>Use IPv6 Stateless Address:</b> Enable use IPv6 Stateless Address when registration, default Enabled, (Enabled、Disabled)。</p> <p><b>SIP Registration Retry Timer:</b> The interval time when re-registration after configure SIP fail, default is 100 second, (1~1800 second)。</p> <p><b>Unregister When Reboot:</b> Enable device logout after device reboot, default Disable, (Enabled、Disabled)。</p>                                              |

### 4.2.3 Codecs

Codecs display & configure supported audio codecs, PTime, Codecs Payload, see as below,

The screenshot displays the 'Audio Codec' configuration page in the Dinstar SIP Gateway web interface. The top navigation bar includes 'Paging Gateway', 'Status', 'Account', 'Network', 'equipment', 'Maintenance', and 'Security'. The 'Account' tab is active, showing 'Account1: 881'. The left sidebar has 'Basic', 'Advanced', and 'Codecs' (selected). The main content area is titled 'SIP Account' and 'Audio Codec'. It features two lists: 'Disabled Codecs' (G723\_53, G723\_63, G726-16, G726-24, G726-32, G726-40, iLBC\_13\_3, iLBC\_15\_2, AMR, OPUS, OPUS-WB) and 'Enabled Codecs' (G722, PCMU, PCMA, G729). Arrows allow moving codecs between the lists. Below, 'Audio Codec Params' shows 'PTime' set to 20. 'Submit' and 'Cancel' buttons are at the bottom.

\*

|                    |                                                                                                                                                                                                                                                                                                                           |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Audio Codecs       | Display and configure a list of available / unavailable codecs. A codec refers to a codec used to convert analog signals into digital signals or digital signals into analog signals. Familiar codecs are PCMU (G711U), PCMA (G711A), G722 (broadband codec), G729, G723_53, G723_63, G726_16, G726_24, G726_32, G726_40. |
| Audio Codec Params | PTime : Default 20ms, ( Disabled、10、20、30、40、50、60 )                                                                                                                                                                                                                                                                      |
| Video Codecs       | Currently only support H.264.                                                                                                                                                                                                                                                                                             |
| Video Codec Params | Codecs Payload: Default 96, ( 96~127 ) 。                                                                                                                                                                                                                                                                                  |

## 4.3 Network

Web GUI mainly display & configuration, include devices network IP address get, TR069 Network management, NMS Cloud management service, VLAN & Qos etc.

### 4.3.1 Network Basic

**Paging Gateway** | Status | Account | **Network** | equipment | Maintenance | Security | Default password: 2021/09/30 07:25

**Basic** | Advanced | TR069 | SNMP | NMS | VLAN&QoS | 802.1X | VPN | Diagnosis

**LAN Port Mode**

LAN Mode (IPv4/IPv6) IPv4

**LAN Port IPv4**

☒ DHCP  
☐ Static IP

IP Address: 192.168.1.240  
Subnet Mask: 255.255.255.0  
Default Gateway: 192.168.1.1  
Static DNS: ☐ ON ☒ OFF  
LAN DNS1: 8.8.8.8  
LAN DNS2:

**LAN Port IPv6**

☒ DHCP  
☐ Static IP

IP Address:  
Prefix Length:  
Default Gateway:  
Static DNS: ☐ ON ☒ OFF  
LAN DNS1:  
LAN DNS2:

**LAN PPPoE**

\*

|                  |                                                                                       |
|------------------|---------------------------------------------------------------------------------------|
| LAN Port Mode    | Configure LAN Port mode, Default is IPv4, (IPv4、IPv6、IPv4&IPv6) .                     |
| LAN Port IPv4    | Configure the way LAN Port get IP address with IPv4, default is DHCP,(DHCP、Static IP) |
| LAN Port IPv6    | Configure the way LAN Port get IP address with IPv6, default is DHCP,(DHCP、Static IP) |
| LAN Port PPPoE   | Configure the PPPoE's verification's password & password via LAN Port.                |
| Speed and Duplex | Configure the LAN Port connection speed, Default is                                   |

### 4.3.2 TR069

TR069 mainly display & configure TR069 parameters, TR-069 (Technical Report - 069) is a remote control terminal communication protocol based on CWMP(CPE WAN Management Protocol), see as below,

\*

|                        |                                                                              |
|------------------------|------------------------------------------------------------------------------|
| Active                 | To enable or disable TR069 feature.                                          |
| Version                | To select supported TR069 version (version 1.0 or 1.1).                      |
| ACS URL                | ACS: ACS is short for Auto configuration servers as server side.             |
| Username/Password      | Configure Username/Password when connect to the ACS server.                  |
| Periodic Inform Active | To enable periodically inform.                                               |
| Periodic Interval      | To configure interval for periodic inform, default 1800 seconds,(3~24x3600s) |

|                       |                                                                                                                            |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------|
| CPE URL               | CPE is short for Customer-premise equipment as client side devices, mainly use for service & client dual-way verification. |
| CPE Username/Password | Configure Username/Password when server verificate to CPE side.                                                            |

### 4.3.3 SNMP

SNMP is a simple network management protocol, To display and configure SNMP settings, see as below.

\*

|            |                                                                 |
|------------|-----------------------------------------------------------------|
| Active     | To enable or disable SNMP feature.                              |
| Version    | To select supported SNMP version, default is v1/v2 ,(v1/v2、 v3) |
| Trusted IP | Configure SNMPserver IP address                                 |

### 4.3.4 NMS

NMS is Dinstar private cloud network management system based on HTTP protocol, NMS support online setting, remote control, auto deploy & update for the terminal, see as below,

| Paging Gateway                                                                                                                                                                              | Status                                                                                                                                                                                                                                                                                                         | Account | Network | equipment | Maintenance | Security                              |        |          |                |  |             |       |           |         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------|-----------|-------------|---------------------------------------|--------|----------|----------------|--|-------------|-------|-----------|---------|
|                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                |         |         |           |             | Default password:<br>2021/09/30 07:26 |        |          |                |  |             |       |           |         |
| <ul style="list-style-type: none"> <li>Basic</li> <li>Advanced</li> <li>TR069</li> <li>SNMP</li> <li>NMS</li> <li>VLAN&amp;QoS</li> <li>* 802.1X</li> <li>VPN</li> <li>Diagnosis</li> </ul> | <h3>NMS</h3> <table> <tr> <td>Active</td> <td>Disabled</td> </tr> <tr> <td>Server Address</td> <td></td> </tr> <tr> <td>Server Port</td> <td>20006</td> </tr> <tr> <td>Interface</td> <td>Default</td> </tr> </table> <div> <input type="button" value="Submit"/> <input type="button" value="Cancel"/> </div> |         |         |           |             |                                       | Active | Disabled | Server Address |  | Server Port | 20006 | Interface | Default |
| Active                                                                                                                                                                                      | Disabled                                                                                                                                                                                                                                                                                                       |         |         |           |             |                                       |        |          |                |  |             |       |           |         |
| Server Address                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                |         |         |           |             |                                       |        |          |                |  |             |       |           |         |
| Server Port                                                                                                                                                                                 | 20006                                                                                                                                                                                                                                                                                                          |         |         |           |             |                                       |        |          |                |  |             |       |           |         |
| Interface                                                                                                                                                                                   | Default                                                                                                                                                                                                                                                                                                        |         |         |           |             |                                       |        |          |                |  |             |       |           |         |

\*

|                |                                                                                                  |
|----------------|--------------------------------------------------------------------------------------------------|
| NMS Active     | To enable or disable NMS feature.                                                                |
| Server Address | To configure cloud network server address or domain name.                                        |
| Server Port    | To configure cloud network server port.                                                          |
| Interface      | To configure terminal & cloud network server port name, (default, PPPoE, tun0, tap0 is optional) |

### 4.3.5 VLAN&QoS

VLAN&QoS is to display & configure VLAN parameter on LAN port, and then set SIP command & QoS of Audio, see as below,

| Paging Gateway                                                                                                                                                                              | Status                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Account       | Network | equipment | Maintenance | Security                              |          |        |          |     |            |          |   |           |        |         |             |               |         |           |           |           |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|---------|-----------|-------------|---------------------------------------|----------|--------|----------|-----|------------|----------|---|-----------|--------|---------|-------------|---------------|---------|-----------|-----------|-----------|
|                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |               |         |           |             | Default password:<br>2021/09/30 07:31 |          |        |          |     |            |          |   |           |        |         |             |               |         |           |           |           |
| <ul style="list-style-type: none"> <li>Basic</li> <li>Advanced</li> <li>TR069</li> <li>SNMP</li> <li>NMS</li> <li>VLAN&amp;QoS</li> <li>* 802.1X</li> <li>VPN</li> <li>Diagnosis</li> </ul> | <h3>VLAN</h3> <table> <tr> <td rowspan="3">LAN Port</td> <td>Active</td> <td>Disabled</td> </tr> <tr> <td>VID</td> <td>1 (1~4093)</td> </tr> <tr> <td>Priority</td> <td>0</td> </tr> <tr> <td rowspan="2">DHCP Vlan</td> <td>Active</td> <td>Enabled</td> </tr> <tr> <td>DHCP Option</td> <td>132 (128~254)</td> </tr> </table> <h3>QoS</h3> <table> <tr> <td>SIP QoS</td> <td>40 (0~63)</td> </tr> <tr> <td>Voice QoS</td> <td>40 (0~63)</td> </tr> </table> <div> <input type="button" value="Submit"/> <input type="button" value="Cancel"/> </div> |               |         |           |             |                                       | LAN Port | Active | Disabled | VID | 1 (1~4093) | Priority | 0 | DHCP Vlan | Active | Enabled | DHCP Option | 132 (128~254) | SIP QoS | 40 (0~63) | Voice QoS | 40 (0~63) |
| LAN Port                                                                                                                                                                                    | Active                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Disabled      |         |           |             |                                       |          |        |          |     |            |          |   |           |        |         |             |               |         |           |           |           |
|                                                                                                                                                                                             | VID                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1 (1~4093)    |         |           |             |                                       |          |        |          |     |            |          |   |           |        |         |             |               |         |           |           |           |
|                                                                                                                                                                                             | Priority                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0             |         |           |             |                                       |          |        |          |     |            |          |   |           |        |         |             |               |         |           |           |           |
| DHCP Vlan                                                                                                                                                                                   | Active                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Enabled       |         |           |             |                                       |          |        |          |     |            |          |   |           |        |         |             |               |         |           |           |           |
|                                                                                                                                                                                             | DHCP Option                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 132 (128~254) |         |           |             |                                       |          |        |          |     |            |          |   |           |        |         |             |               |         |           |           |           |
| SIP QoS                                                                                                                                                                                     | 40 (0~63)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |               |         |           |             |                                       |          |        |          |     |            |          |   |           |        |         |             |               |         |           |           |           |
| Voice QoS                                                                                                                                                                                   | 40 (0~63)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |               |         |           |             |                                       |          |        |          |     |            |          |   |           |        |         |             |               |         |           |           |           |

\*

|               |                                                                                                                                                                                                                                            |
|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| VLAN LAN Port | To configure VLAN property of LAN port:<br><b>Active:</b> To enable or disable VLAN feature.<br><b>VID:</b> To configure VLAN id for designated port. (1~4093) .<br><b>Priority:</b> To select VLAN priority for designated port.. (0~7) . |
|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                  |                                                                                                                                                                                                                                                               |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| VLAN DHCP Option | <p>To configure the VLAN property when DHCP receive the server address.</p> <p><b>Active:</b> To Enable or disable the VLAN property when DHCP receive the server address.</p> <p><b>DHCP option:</b> To configure DHCP receive VLAN setting, (128~254) .</p> |
| QoS              | <p>To display and configure QoS settings.</p> <p><b>SIP QoS:</b> To configure QoS value for all SIP message.</p> <p><b>Voice QoS:</b> To configure QoS value for all audio stream(RTP streams).</p>                                                           |

### 4.3.6 802.1X

802.1X is to display and configure 802.1x settings. 802.1x is a verification framework, support multi-verification protocol, currently mainly protocol like EAP-MD5、EAP-TLS、EAP-TTLS、EAP-PEAP & EAP-FAST etc, see as below,

**802.1X**

802.1X Mode: Disabled

Provisioning Mode: Unauthenticated Pr

Anonymous ID:

Identity:

Password:

Submit Cancel

**CA Certificate**

| Index | Issue To | Issuer | Expire Time |                          |
|-------|----------|--------|-------------|--------------------------|
| 1     |          |        |             | <input type="checkbox"/> |
| 2     |          |        |             | <input type="checkbox"/> |
| 3     |          |        |             | <input type="checkbox"/> |
| 4     |          |        |             | <input type="checkbox"/> |
| 5     |          |        |             | <input type="checkbox"/> |

Delete Cancel

**CA Certificate index Select**

Index: 1

**CA Certificate Upload**

Index: Auto

|        |                                                                                                                                                                                                                                          |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 802.1x | <p>To display and configure 802.1x settings.</p> <p><b>802.1x Mode:</b> To enable or disable 802.1x, default is disable. (EAP-MD5、EAP-TLS、EAP-TTLS、EAP-TTLS/EAP-MSCHAPv2、EAP-TTLS/EAP-GTC、EAP-PEAP/MSCHAPv2、EAP-PEAP/GTC、EAP-FAST) .</p> |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                    |                                                                                                                                                                                                                                                                                                                                                             |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                    | <b>Provisioning Mode:</b> When verification protocol is EAP-FAST, can identify whether use identity verification or without identity verification through configure Provisioning.<br><b>Anonymous ID:</b> To configure anonymous ID to replace actual user ID makes user more secure.<br><b>Username/password:</b> insert username/password when configure. |
| CA Certificate     | To provide CA Certificate index display & upload feature.                                                                                                                                                                                                                                                                                                   |
| Device Certificate | To provide Device Certificate index display & upload feature.                                                                                                                                                                                                                                                                                               |

### 4.3.7 VPN

To display and configure VPN setting, include enable or disable Open VPN feature, and provide VPN certificate upload, currently support Open VPN features.

\*

|        |                                                                                 |
|--------|---------------------------------------------------------------------------------|
| Active | Enable or disable Open VPN。                                                     |
| upload | To upload VPN client configuration file which is used to connect to VPN server. |

### 4.3.8 Diagnosis

Diagnosis mainly support network diagnosis tools, like ping & trace route feature, currently provide ping feature, will complete other functions in next version, see as below,

## 4.4 Equipment

Equipment Items display and configure equipment parameters, include device name, call feature, remote control, output, time, date, voice & ringtone, etc.

### 4.4.1 Basic

Equipment basic to configure equipment name, help administrator do the management.

\*

|             |                                              |
|-------------|----------------------------------------------|
| Device name | To configure equipment device location, etc. |
|-------------|----------------------------------------------|

### 4.4.2 Time & Date

DINSTAR

StatusAccountNetworkequipmentMaintenanceSecurity

Default password.  
2021/09/29 09:14

Basic

Time&Date

Call Feature

Voice

Ringtones

Action URL

Multicast

Intercom

Output

Remote control

Alarm

Camera

Time&Date

Manual

Date

Year

Mon

Day

Time

Hour

Min

Sec

NTP

Time Zone

0 GMT

Primary Server

0.pool.ntp.org

Secondary Server

1.pool.ntp.org

Update Interval

3600

(>= 3600s)

Daylight Saving Time

Active

Auto

Offset

60

(-300~300Minutes)

By Date

Start Time

1 Mon 1 Day 0 Hour

End Time

12 Mon 31 Day 23 Hour

By Week

Start Month

Jan

Start Week Of Month

First In Month

Start Day Of Week

Monday

Start Hour

0

(0~23)

End Month

Dec

End Week Of Month

Fourth In Month

End Day Of Week

Sunday

End Hour

23

(0~23)

|           |                                                                                                      |
|-----------|------------------------------------------------------------------------------------------------------|
| Time&Date | Support Manual setting or NTP(Network Time Source), NTP support Time Zone Setting & Update Interval. |
| DST       | Daily Saving Time                                                                                    |

## 4.4.3 Call Feature

DINSTAR

[Status](#)
[Account](#)
[Network](#)
[equipment](#)
[Maintenance](#)
[Security](#)

 Default password  
2021/09/29 09:1

[Basic](#)  
[Time&Date](#)  
[Call Feature](#)  
[Voice](#)  
[Ringtones](#)  
[Action URL](#)  
[Multicast](#)  
[Intercom](#)  
[output](#)  
[remote control](#)  
[Alarm](#)  
[Camera](#)

### Timeout For Answer

|               |    |           |
|---------------|----|-----------|
| Outgoing Call | 60 | (30~120s) |
| Incoming Call | 65 | (30~120s) |

### Hang Up After RTP Time Out

|          |    |         |
|----------|----|---------|
| Time Out | 10 | (5~60s) |
|----------|----|---------|

### Call Button

|                       |         |         |
|-----------------------|---------|---------|
| Call Button Selection | 1       | ▼       |
| Call Key Light        | Enabled | ▼       |
| Call Button Day 1     | 883     |         |
| Call Button Day 2     | 883     |         |
| Call Button Day 3     | 883     |         |
| Call Button Night     | 883     |         |
| Round Robin Time Out  | 60      | (5~60s) |

### Day Night Setting

|             |          |        |  |
|-------------|----------|--------|--|
| Day Start   | Hour: 9  | Min: 0 |  |
| Night Start | Hour: 19 | Min: 0 |  |

### Max Call Duration

|                   |   |           |
|-------------------|---|-----------|
| Max Call Duration | 5 | (0~30min) |
|-------------------|---|-----------|

### Local RTP

|              |       |              |
|--------------|-------|--------------|
| Max RTP Port | 17000 | (1000-65535) |
|--------------|-------|--------------|

\*

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Timeout For Answer         | To configure Outgoing call, Incoming call, default is 60s, (30-120s)                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Hang Up After RTP Time Out | To configure RTP Time out interval, Door phone will hang out if not receive command when RTP time out, default is 10s, (5-60s)                                                                                                                                                                                                                                                                                                                                                                                 |
| Call Button                | To configure call button feature.<br><b>Call Button Selection:</b> can choose 2 call button.<br><b>Call Key Night:</b> Enable or Disable night call key.<br><b>Call Button Day1/2/3:</b> replace a phone number you want in Bright Day<br><b>Call Button Night:</b> replace a phone number you want in Dark Day<br><b>Round Robbin Time Out:</b> Hang Out Time Interval, for example, if Call Button Day 1 hang out, it will go to Call Button Day 2, call button day 2 hang out, then go to Call Button Day 3 |
| Day Night Setting          | Set the start of day time and night time:<br><b>Day Start:</b> Starting point of daytime;<br><b>Night Start:</b> Starting point of night time.<br>Key Pad Light& Call Button Selection configure are based on this Day Night Setting feature.                                                                                                                                                                                                                                                                  |
| Security Staff Button      | To configure call phone number to security staff.                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

|                         |                                                                                                                                                            |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Max call Duration       | To configure the longest talk time, it will automatically hang up after a limited time (time range is 0~ 30minutes), 0 minutes means no automatic hang up. |
| Local RTP               | To configure Local RTP port range, include min RTP port & max RTP port, (1024- 65535)                                                                      |
| Hang Up After Open Door | To configure duration for the hang up after opening the door, default is 15s, (0-15s), 0 means hang up immediately after opening the door.                 |
| Web Call                | To configure a call from web.                                                                                                                              |

## 4.4.4 Voice

**DINSTAR**

Status Account Network **equipment** Maintenance Security

Default password  
2021/09/29 09:2

Basic

Time&Date

Call Feature

**Voice**

Ringtones

Action URL

Multicast

Intercom

output

remote control

Alarm

Camera

**Echo Cancellor**

Echo Cancellor

Voice Active Detection

CNG

**Jitter Buffer**

Jitter Type

Min Delay  (0~1000ms)

Normal Delay  (0~1000ms)

Max Delay  (0~1000ms)

**Volume**

Mic Volume  (1~10)

Speaker Volume  (1~10)

Recorder Volume  (1~10)

Line In Volume  (1~10)

Line Out Volume  (1~10)

Key Tone  (0~10)

Ringtone Volume  (0~10)

**AGC configuration**

Tx direction AGC Enable

Tx Max Gain  (0-30db)

Tx Min Gain  (-40-0db)

Tx TargetLevel  (0-400)

|                |                                                                                                                                                                                           |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Echo Cancellor | To Enable & Disable Echo Cancellor, Voice Active Detection(VAD), Comfort Noise Generator(CNG)                                                                                             |
| Jitter Buffer  | To Enable & Disable Jitter Buffer types, default is adaptive, (Fixed, Adaptive), if select Adaptive, default min delay is 0ms, default max delay is 300ms, Default normal delay is 120ms. |
| Volume         | Mic Volume default is 5,(1-10)<br>Speaker Volume default is 5,(1-10)<br>Recorder Volume default is 2,(1-10)<br>Line Out Volume default is 6,(1-10)<br>Key Tone Volume default is 5,(1-10) |

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                   | Ringtone Volume default is 5,(1-10)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| AGC configuration | <p>AGC(Automatic Gain Control) configure to approach target threshold, automatically control the gain.</p> <p><b>Tx direction AGC Enable:</b> Default is Enable, (Enabled、Disabled)</p> <p><b>Tx Max Gain:</b> default is 0db, (0~30db)</p> <p><b>Tx Min Gain:</b> default is -40db, (-40~0db)</p> <p><b>Tx Target Level:</b> default is 120, (0~400)</p> <p><b>Rx direction AGC Enable:</b> Default is Enable, (Enabled、Disabled)</p> <p><b>Rx direction AGC Enable:</b> default is 5, (0~30db)</p> <p><b>Rx Min Gain :</b> default is -40db, (-40~0db)</p> <p><b>Rx Target Level:</b> default is 120, (0~400)</p> <p><b>Handfree Auto AGC enable:</b> default is disable, (Enabled、Disabled)</p> <p><b>Handfree Tx Max Gain:</b> default is 10db, (0~30db)</p> |
| Audio Management  | <p><b>Input Selection:</b> default Native Mic, (Native Mic, Line Input,Mixing)</p> <p><b>Speaker Out:</b> default enable, (Enabled、Disabled)</p> <p><b>Line out:</b> default disable, (Enabled、Disabled)</p> <p><b>Recorder Output:</b> default disable, (Enabled、Disabled)</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

## 4.4.5 Ringtones

DINSTAR

StatusAccountNetworkEquipmentMaintenanceSecurity

Default password.  
2022/04/01 08:08

Basic

Time&Date

Call Feature

Voice

**Ringtones**

Action URL

Multicast

Intercom

output

remote control

Alarm

Camera

Time broadcast

Audio and video

Ringtones

Upload(Max Total Size: 100K)

Browse not selected

SubmitCancel

Uploaded Ringtones

Delete

Ring Tones

Ring1.wav

Distinctive Ringers

| Index | Keyword | Ringtone  |
|-------|---------|-----------|
| 0     |         | Ring1.wav |
| 1     |         | Ring1.wav |
| 2     |         | Ring1.wav |
| 3     |         | Ring1.wav |
| 4     |         | Ring1.wav |
| 5     |         | Ring1.wav |
| 6     |         | Ring1.wav |
| 7     |         | Ring1.wav |
| 8     |         | Ring1.wav |
| 9     |         | Ring1.wav |
| 10    |         | Ring1.wav |
| 11    |         | Ring1.wav |

Tones

Select Country or Region

Default

Busy Tone

480+620/500,0/500

Disabled

RingBack Tone

440+480/2000,0/4000

Enabled

Dial Tone

350+440

Enabled

Busy tone play time

2

(1~5Seconds)

Door Sound Select

Opening Prompt

Voice Prompt

Open Failed Prompt

Disabled

Default

Voice Prompt

Custom Prompt

Closing Prompt

Voice Prompt

Issuing Prompt

Voice Prompt

Revoking Prompt

Voice Prompt

Short circuit input Prompt

Voice Prompt

SubmitCancel

|                     |                                                                                                         |
|---------------------|---------------------------------------------------------------------------------------------------------|
| Ringtones           | To upload, delete, ringtones setting.                                                                   |
| Distinctive Ringers | Different incoming call with different ringtones.                                                       |
| Tones               | Choose different tones                                                                                  |
| Door Sound Select   | <b>Opening Prompt:</b> default voice prompt,(voice prompt, default, disable, <b>customized prompt</b> ) |

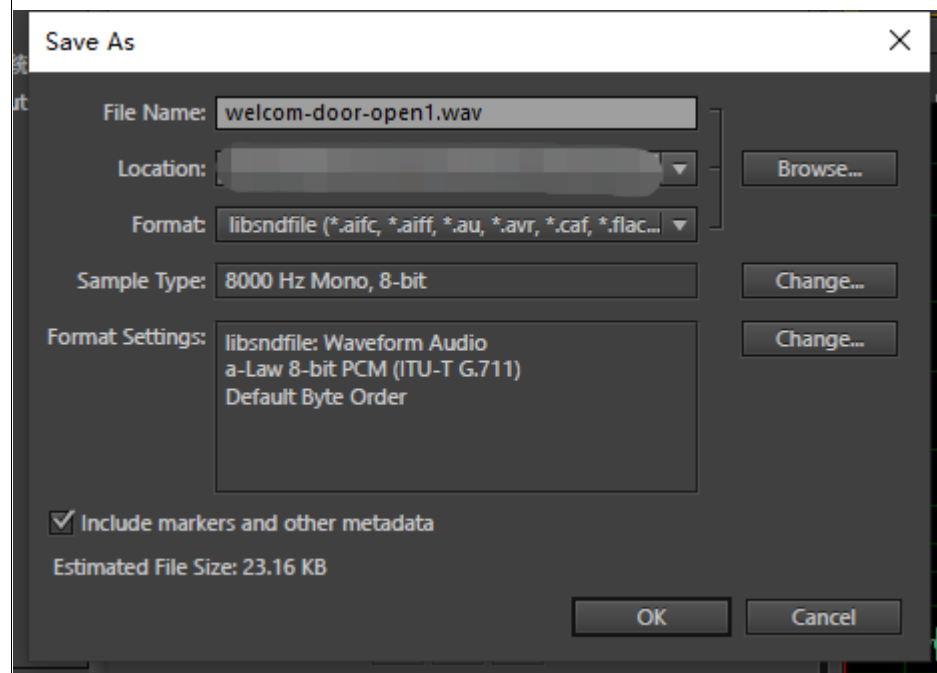
**Closing Prompt:** default voice prompt,(voice prompt, default, disable,customized prompt)  
**Issuing Prompt:** default voice prompt,(voice prompt, default, disable,customized prompt)  
**Revoking Prompt:** default voice prompt,(voice prompt, default, disable,customized prompt)  
**Open Failed Prompt:** default voice prompt,(voice prompt, default, disable,customized prompt)  
**Door Sensor Prompt:** default voice prompt,(voice prompt, default, disable,customized prompt)

Remark: customized prompt file format as below(you can edit in Adobe Audition).

Sample Type: 8000HZ Mono, 8-bit

Format: a-law 8-bit PCM (ITU-T G.711), also named PCMA

u-law 8-bit PCM (ITU-T G.711), also named PCMU



#### 4.4.6 Action URL

**DINSTAR**
Status
Account
Network
**Equipment**
Maintenance
Security

Default password:  
2022/04/01 08:18

Basic
Time&Date
Call Feature
Voice
Ringtones
**Action URL**
Multicast
Intercom
output
remote control
Alarm
Camera
Time broadcast
Audio and video

**Action URL**

Active

Setup Completed

Registered

Unregistered

Registered Failed

Incoming Call

Outgoing Call

Established

Terminated

Missed Call

IP Changed

Reject Incoming Call

Answer New Call

Idle To Busy

Busy To Idle

Disabled

**Action URI**

Initiate Mode

Disabled

Submit

Cancel

|               |                                                               |
|---------------|---------------------------------------------------------------|
| Active        | To configure Action URL, default is disable,(Enable, Disable) |
| Action URL    | To configure different Action URL.                            |
| Initiate Mode | Default is disable                                            |

## 4.4.8 Multicast

To configure Multicast setting & Priority List parameters, see as below.

DINSTAR
Status Account Network **Equipment** Maintenance Security
Default password:  
2022/04/01 08:25

- Basic
- Time&Date
- Call Feature
- Voice
- Ringtones
- Action URL
- Multicast**
- Intercom
- output
- remote control
- Alarm
- Camera
- Time broadcast
- Audio and video

### Multicast receiving settings

Paging Barge Disabled ▼  
Paging Priority Active Enabled ▼

### Multicast receiving priority list

| IP Address    | Listening Address    | Label                | Priority |
|---------------|----------------------|----------------------|----------|
| 1 IP Address  | <input type="text"/> | <input type="text"/> | 1        |
| 2 IP Address  | <input type="text"/> | <input type="text"/> | 2        |
| 3 IP Address  | <input type="text"/> | <input type="text"/> | 3        |
| 4 IP Address  | <input type="text"/> | <input type="text"/> | 4        |
| 5 IP Address  | <input type="text"/> | <input type="text"/> | 5        |
| 6 IP Address  | <input type="text"/> | <input type="text"/> | 6        |
| 7 IP Address  | <input type="text"/> | <input type="text"/> | 7        |
| 8 IP Address  | <input type="text"/> | <input type="text"/> | 8        |
| 9 IP Address  | <input type="text"/> | <input type="text"/> | 9        |
| 10 IP Address | <input type="text"/> | <input type="text"/> | 10       |

### Multicast originating number setting

| Multicast address    | phone number         |
|----------------------|----------------------|
| <input type="text"/> | <input type="text"/> |
| <input type="text"/> | <input type="text"/> |

\*

|                            |                                                                                                                                                                                                                                         |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Multicast setting          | <b>Paging Barge:</b> To configure the Multicast Paging Barge Priority,default is Disable, (Disable, 1/2/3/4/5/6/7/8/9/10 )<br><b>Paging Priority Active:</b> The switch of Paging Priority Active,default is Disable, (Enable, Disable) |
| Priority List              | To display & configure Multicast Listening Address & Priority Level, Priority Level same as 1/2/3/4/5/6/7/8/9/10                                                                                                                        |
| Originating number setting | To configure the random number to replace multicast ip address, when call this random number, it will call to the replaced multicast ip addresss directly.                                                                              |

## 4.4.9 Intercom

To configure Intercom feature parameters, intercom features based on address support, see as below.

\*

|               |                                                                    |
|---------------|--------------------------------------------------------------------|
| Active        | To configure Intercom switch, default is disable,(Enable, Disable) |
| Intercom Mute | To configure when intercom A call in, intercom B got mute or not.  |

## 4.4.10 Output

To display door sensor, door lock status, auto opening setting, etc.

DINSTAR
Status
Account
Network
Equipment
Maintenance
Security
Default password  
2022/04/01 08:3

Basic
Time&Date
Call Feature
Voice
Ringtones
Action URL
Multicast
Intercom
output
remote control
Alarm
Camera
Time broadcast
Audio and video

### Auto Open Setting

Sip Register Fail
Disabled
Line
All
Waiting Time
180
(1~3600s)
Network Connect Fail
Disabled
Waiting Time
180
(1~3600s)

### led

Led Mode
always light

### Switch

Mode
Monostable
Delay Time
2
(1~600s)
Triggering Condition
☒ Call
☒ Dtmf
☒ Switch
Flash
Fast
Flash Time
1
(1~600s)

Submit
Cancel

\*

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Auto Open setting | <p>2 ways door open configuration</p> <p><b>SIP Register Fail:</b> The control parameter when SIP register fail.</p> <p><b>Network Connect Fail:</b> The control parameter when Network connect fail.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| LED               | <p>To configure the external speed dial key button LED light status, include "always light, always dark, external key control, external switch control", default is "always light"</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Switch            | <p><b>Mode:</b> Monostable &amp; Bistable.</p> <p><b>Monostable</b> means switch will auto return back to open when close in few times. <b>Bistable</b> means switch keep always close or always open.</p> <p><b>Delay Time:</b> time of Monostable &amp; Bistable status.</p> <p><b>Triggering Condition under Monostable Mode:</b></p> <ol style="list-style-type: none"> <li><b>1. Call:</b> switch will triggered to open once press on call, then switch will auto close after delay time (during the call).</li> <li><b>2. DTMF:</b> switch will be triggered once press via DTMF code (you need enable DTMF code ahead, "Equipment - Remote Control- Open Door By DTMF Code"), then switch will auto close after delay time.</li> </ol> <p><b>Open Door By DTMF Code</b></p> <div> <div>Active</div> <div>Enabled</div> <div>Door 1</div> <div>1</div> </div> <p><b>3. Door Exit Push Button:</b> Switch will triggered once press push button</p> <p><b>Triggering Condition under Bistable Mode:</b></p> <ol style="list-style-type: none"> <li><b>1. Call:</b> switch will triggered to open once press on call, then switch</li> </ol> |

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User Manual

Shenzhen Dinstar Co., Ltd.

 www.dinstar.com

will auto close after hang up the call.

**2. DTMF:** switch will be triggered once press via DTMF code(you need enable DTMF code ahead, "Equipment - Remote Control- Open Door By DTMF Code"), then switch will auto close 没看懂单稳态下 DTMF 的开门模式

**Q:** 单稳态、双稳态、闪烁三种模式，call，dtmf，switch 触发的优先级？

当勾选 call 和 dtmf 的时候，哪个优先级？

当勾选 call 和 switch 的时候，哪个优先级？

当勾选 call，dtmf，switch 三个的时候，哪个优先级？

当勾选 dtmf 和 switch 的时候，哪个优先级？

#### 4.4.11 Remote control

Remote control page is to configure DTMF door open code, Identify equipment, open door by http, etc.

**DINSTAR** Status Account Network **Equipment** Maintenance Security Default password: 2022/04/02 08:45

**Basic** Time&Date Call Feature Voice Ringtones Action URL Multicast Intercom output remote control Alarm Camera Time broadcast Audio and video

**Open Door By DTMF Code**

Active: Enabled  
Door 1: 1

**Control PTZ by DTMF code**

PTZ protocol: PELCO-D  
PTZ baud rate: 2400  
PTZ address code: 1 (The range of PTZ address code is 0 ~ 255)  
turn left: 0  
turn right: 0  
turn up: 0  
turn down: 0  
Stop spinning: 0

**Identify equipment**

Identify: Submit

**Open Door By HTTP**

Active: Enabled  
Username: admin  
Password: \*\*\*\*\*

Short circuit output Control

output

1

Action

Open

Open Mode

Once

Execute

Submit

Cancel

\*

|                              |                                                                                                                                                                                                                                                           |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Open Door by DTMF Code       | <b>Active:</b> default is Enable, (Enabled、Disabled)。<br><b>Door 1:</b> To configure Door 1's DTMF code, (0~9、*、#)<br><b>Door 2:</b> To configure Door 1's DTMF code, (0~9、*、#)                                                                           |
| Control PTZ by DTMF code     | <b>PTZ protocol:</b> Default is PELCO-D, PELCO-P as optional.<br><b>PTZ baud rate:</b> Default is 2400.<br><b>PTZ address code:</b> The range of PTZ address code is 0 ~ 255.<br><b>Turn left/right/up/down:</b> Define 0-9, *,#<br><b>Stop Spinning:</b> |
| Identity Equipment           | Click "Submit" to identity Door Phone, then device will "bee bee" to help you know which door phone.                                                                                                                                                      |
| Open Door By HTTP            | To configure the open door via http protocol.                                                                                                                                                                                                             |
| Short circuit output control | Can remote control DPA circuit output switch open/close status or mode.                                                                                                                                                                                   |

## 4.4.12 Alarm

DINSTAR

Status

Account

Network

Equipment

Maintenance

Security

Default password:  
2022/04/02 09:17

Basic

Time&Date

Call Feature

Voice

Ringtones

Action URL

Multicast

Intercom

output

remote control

Alarm

Camera

Time broadcast

Audio and video

Set Message

Send Message

Disabled

Alarm Command

Reset Command

Alarm Status Reset

Submit

Ring Type

None

Alarm Server Address

Message

Alarm Set

Switch Detect Set

Disabled

Key

Disabled

Submit

Cancel

\*

|             |                                                                                                                                                                                 |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Set Message | <b>To configure tamper Detection, alarm, and alarm ring</b><br><b>Send Message:</b> send message after door phone dismantled.<br><b>Alarm Command:</b> default is Alarm_Tamper. |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|              |                                                                                                                                                                                                                                                                                                                                                  |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|              | <b>Reset Command:</b> default is Reset_Tamper.<br><b>Alarm Status Reset:</b> To reset via Web.<br><b>Ring Type:</b> Default<br>Alarm Server Address: To configure alarm server address, it will auto send message to server.<br>Message Format: format as below: <b>\$cmd:Description=\$type;SIP User=\$user;Mac=\$mac;IP=\$ip;port=\$origin</b> |
| Alarm Server | To configure Alarm Server Address, it will auto send message to configured server once alert.                                                                                                                                                                                                                                                    |

## 4.4.13 Camera

To configure LAN camera UUID & WLAN camera UUID, camera resolution, see as below.

**DINSTAR** Status Account Network Equipment Maintenance Security Default password. 2022/04/19 10:19

Basic  
Time&Date  
Call Feature  
Voice  
Ringtones  
Action URL  
Multicast  
Intercom  
output  
remote control  
Alarm  
Camera  
Time broadcast  
Audio and video

**Camera Mode**

Camera Mode Camera isolation mode

Device UUID uuid:67d573a4-5566-7788-99aa-00124129bf53

Ip Camera User

Ip Camera Pwd

Ip Camera IP 172.25.117.131

Camera Firm Xiongmai

**IP Camera**

☐ External Camera Enable

☒ Manual Rtsp URL

Video Rtsp URL

☐ Manual UUID

Device UUID

Video Rtsp URL

☐ Auto UUID

Device UUID

Video Rtsp URL

camera power

camera power

open

Camera network address modification (only applicable to Xiongmai)

new network address

new subnet mask

new default gateway

Confirm

Cancel

Camera Password Modification

Old Password

New Password

Confirm the new password

Confirm

Cancel

ONVIF

Username

Password

admin

Submit

Cancel

|                                    |                                                                                                                                                                                                                                |
|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| IP Camera                          | <b>Resolution:</b> default is 1280X720.<br><b>Default UUID:</b> fixed, can not change.<br><b>Custom:</b> To auto configure WLAN camera UUID & URL address of RTSP. Or manual configure WLAN camera UUID & URL address of RTSP. |
| Internal Camera isolation Mode     | 3rd part device cannot search the DP8X camera.                                                                                                                                                                                 |
| Internal Camera non isolation Mode | 3rd part device can search the DP8X camera ip address and connect.                                                                                                                                                             |
| External Camera Enable             | Configure to connect external camera                                                                                                                                                                                           |
| Manual Rtsp URL                    | To fill up external camera rtsp URL to connect external camera                                                                                                                                                                 |
| Manual UUID                        | To fill up external camera UUID & rtsp URL to connect external camera                                                                                                                                                          |
| Auto UUID                          | DP8X can auto search external camera UUID or rtsp url, then connect.                                                                                                                                                           |
| Camera Resolution Setting          | Main Stream Resolution: 1080P, 3M<br>Secondary Stream Resolution: D1,CIF                                                                                                                                                       |
| Camera Password Modification       | To modify camera password                                                                                                                                                                                                      |
| Camera ip address Modification     | To modify camera ip address.                                                                                                                                                                                                   |

## 4.4.14 Time Broadcast

DINSTAR

StatusAccountNetworkEquipmentMaintenanceSecurity

Default password  
2022/04/19 10:2

Basic

Time&Date

Call Feature

Voice

Ringtones

Action URL

Multicast

Intercom

output

remote control

Alarm

Camera

Time broadcast

Audio and video

Add time broadcast

Upload(Max Total Size: 5M)

Browse not selected

Usb storage

Sdcard storage

SubmitCancel

Broadcast time

Broadcast date

Playback times

Audio file

:

every day

Delete

Audition

End Audition

Usb storage

Sdcard storage

Add

Time broadcast

| Broadcast time | Broadcast date | Audio file | Storage | Playback times |        |
|----------------|----------------|------------|---------|----------------|--------|
|                |                |            |         |                | Delete |

|                    |                                                                                                                                                                                                                                                                                                                                                                                             |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Add time broadcast | <p>Upload: To upload fixed time broadcast file, max size 5M, audio codec support PCMA and PCMU.</p> <p>Storage: choose USB storage or SD card storage path.</p> <p>Broadcast time: Configure the preset time to broadcast.</p> <p>Broadcast date: Configure the preset date to broadcast.</p> <p>Audio file: To add audio file into broadcast play list from chose USB or SD card path.</p> |
| Time Broadcast     | Can check fixed time broadcast audio file information on list.                                                                                                                                                                                                                                                                                                                              |

## 4.4.15 Audio and Video

|                    |                                                                                                                                                                                                                                                                                                          |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Recording settings | <p>Video save path: To choose USB storage or SD card storage.</p> <p>Storage Strategy:</p> <p>Cyclic storage: It will auto over cover previous old storage data when USB/SD card storage is full.</p> <p>Acyclic storage: It won't over cover previous old storage when USB/SD card storage is full.</p> |
| Audio Video List   | <p>Storage : Can choose storage path, from USB or SD card..</p> <p>Sort: Can sort by date(from early to late)</p> <p>Start/end date: Configure start date and end date.</p>                                                                                                                              |

## 4.5 Maintenance

To display & configure doorphone maintenance feature, include Upgrade, Auto Provision, System Log, Network Capture, Configuration, PnP, Call Event, Reboot and Door Log.

### 4.5.1 Upgrade

| Paging Gateway                                                                                                                                                                                                                                                                                                                                      | Status | Account | Network | equipment | Maintenance | Security |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|---------|---------|-----------|-------------|----------|
| <div> <div> Upgrade<br/>Auto Provision<br/>System log<br/>Network Capture<br/>Configuration </div> <div> Firmware Version: 1.80.6.0.205<br/> Hardware Version: 80.1.0.0.0.6.0<br/> <br/> Upgrade: <input type="button" value="Browse"/> not selected<br/> <input type="button" value="Submit"/> <input type="button" value="Cancel"/> </div> </div> |        |         |         |           |             |          |

|         |                                                            |
|---------|------------------------------------------------------------|
| *       |                                                            |
| Version | The doorphone firmware & hardware version.                 |
| Upgrade | Click Browse to select a version file to upgrade from LAN. |

## 4.5.2 Auto Provision

Auto Provision , to use for configuration file upgrade , upgrade mode setting and DHCP setting to receive SIP server address, see as below,

| Paging Gateway                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Status | Account | Network | equipment | Maintenance | Security |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|---------|---------|-----------|-------------|----------|
| <div> <div> Upgrade<br/>Auto Provision<br/>System log<br/>Network Capture<br/>Configuration<br/>PnP<br/>Call Event<br/>Reboot<br/>Door Log </div> <div> <h3>DHCP Option</h3> Custom Option: <input type="text"/> (128~254)<br/> (DHCP Option 66/43 is Enabled by Default) <h3>Provisioning Server</h3> URL: <input type="text"/><br/> Username: <input type="text"/><br/> Password: <input type="password"/><br/> Common AES Key: <input type="password"/><br/> AES Key(MAC): <input type="password"/> <h3>Auto Provision</h3> Mode: <input type="text" value="Power On"/><br/> Schedule: <input type="text" value="Sunday"/><br/> <input type="text" value="22"/> (0~23h)<br/> <input type="text" value="0"/> (0~59min)<br/> Clear MD5: <input type="button" value="Submit"/><br/> Export Configuration Template: <input type="button" value="Export"/> <h3>Auto Provision Now</h3> <input type="button" value="Auto Provision Now"/> <br/> <input type="button" value="Submit"/> <input type="button" value="Cancel"/> </div> </div> |        |         |         |           |             |          |

|                     |                                                                                                                                    |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------|
| DHCP Option         | To receive server ip address via DHCP custom option.                                                                               |
| Provisioning server | To input the server URL address which from the server you want, then fill up the username & password, Common AES Key, MAC-AES key. |

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                    | Then select “Power On” in Auto Provision and click “Auto Provision Now”, door phone will auto grade.                                                                                                                                                                                                                                                                                                                                                                                                      |
| Auto Provision     | Auto Provision Mode default is Power On, means doorphone will auto download configuration file followed server URL address.<br><b>Auto Provision Mode</b> : Disable, Power On, Repeatedly, Power On +Repeatedly, Hourly Repeat, Power On+ Hourly Repeat)<br><b>Schedule</b> : The interval of Auto Provision Mode<br><b>Clear MD5</b> : Can upgrade again after Clear MD5<br><b>Export AutoP Configuration Template</b> : AutoP Configuration Template can be edit, and then put into server URL address. |
| Auto Provision Now | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

### 4.5.3 System Log

\*

|               |                                                                               |
|---------------|-------------------------------------------------------------------------------|
| Log Level     | Default level is 3, (Level 1-7), higher level, more secure.                   |
| Export Log    | To troubleshoot after export log.                                             |
| Remote Syslog | To send the doorphone system log to remote syslog server after select Enable. |

### 4.5.4 Network Capture

Network Capture now support 2 interfaces, default is “eth0”,another is “VPN”.

| Paging Gateway                                                                                                                                                                                                | Status                                                                                                                                                   | Account | Network | equipment | Maintenance | Security                              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------|-----------|-------------|---------------------------------------|
|                                                                                                                                                                                                               |                                                                                                                                                          |         |         |           |             | Default password:<br>2021/09/30 02:23 |
| <ul style="list-style-type: none"> <li>Upgrade</li> <li>Auto Provision</li> <li>System log</li> <li><b>Network Capture</b></li> <li>Configuration</li> <li>PnP</li> <li>Call Event</li> <li>Reboot</li> </ul> | <div>Network Capture</div> <div>Interface: eth0</div> <div>Network Capture: Start Stop</div> <div>Mirror</div> <div>Ethernet Port Mirror: Disabled</div> |         |         |           |             |                                       |

### 4.5.5 Configuration

To import & export configuration file, and the reset to factory setting, see as below.

| Paging Gateway                                                                                                                                                                                                                  | Status                                                                                                                                                                                                                | Account | Network | equipment | Maintenance | Security                              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------|-----------|-------------|---------------------------------------|
|                                                                                                                                                                                                                                 |                                                                                                                                                                                                                       |         |         |           |             | Default password:<br>2021/09/30 02:26 |
| <ul style="list-style-type: none"> <li>Upgrade</li> <li>Auto Provision</li> <li>System log</li> <li>Network Capture</li> <li><b>Configuration</b></li> <li>PnP</li> <li>Call Event</li> <li>Reboot</li> <li>Door Log</li> </ul> | <div>Configuration</div> <div>Import Configuration File(.tgz/.conf/.cfg): Browse not selected</div> <div>Import Cancel</div> <div>Export Configuration File: Export</div> <div>Reset To Factory Setting: Submit</div> |         |         |           |             |                                       |

### 4.5.6 PnP

DPA send subscribed news regularly to the PnP server, and PnP server will deploy the configuration files to DPA, DPA parse the configuration files and auto upgrade

| Paging Gateway                                                                                                                                                            | Status                                                                                                                                                                      | Account | Network | equipment | Maintenance | Security                              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------|-----------|-------------|---------------------------------------|
|                                                                                                                                                                           |                                                                                                                                                                             |         |         |           |             | Default password:<br>2021/09/30 02:27 |
| <ul style="list-style-type: none"> <li>Upgrade</li> <li>Auto Provision</li> <li>System log</li> <li>Network Capture</li> <li>Configuration</li> <li><b>PnP</b></li> </ul> | <div>PnP</div> <div>Active: Enabled</div> <div>Server Address: 224.0.1.75</div> <div>Server Port: 5060</div> <div>Update Interval: 1 (1~60h)</div> <div>Submit Cancel</div> |         |         |           |             |                                       |

## 4.5.7 Call Event

Trough CDR, FTP or http URL, Call Event can push service to server ip address.

## 4.5.8 Reboot

|             |                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Auto Reboot | <p><b>Active:</b> To configure Disable, (Disable, Every Day, Repeatedly)</p> <p><b>Reboot Time:</b> If select “Active- Every Day”, then you can set this Reboot Time, for example, if set “22:00”, then doorphone will reboot at 22:00 every day.</p> <p><b>Reboot Interval:</b> If select”Active-Repeatedly”, then you can set this Reboot Interval, for example, if you set “8h”, then door phone will reboot every 8h.</p> |
| Reboot Now  | Restart.                                                                                                                                                                                                                                                                                                                                                                                                                      |

## 4.5.9 Door Log

To display door access record, currently support All, Card Reader, Password, DTMF,

Web, Indoor, SIP Fail, Net Fail, Server Temp Password, Server Dynamic Password, and also support door open record export.

**Paging Gateway**   Status   Account   Network   equipment   Maintenance   Security   Default password: 2021/09/30 02:33

- Upgrade
- Auto Provision
- System log
- Network Capture
- Configuration
- PnP
- Call Event
- Reboot
- Door Log**

**Door Open History**   All   Export

| Index | Type | Door Number | Time                | Name | Number         | Status  |                          |
|-------|------|-------------|---------------------|------|----------------|---------|--------------------------|
| 1     | DTMF | 1           | 2021-09-29 09:36:32 |      | 883@172.16.0.8 | Success | <input type="checkbox"/> |
| 2     | Web  | 1           | 2021-09-27 01:38:59 |      |                | Success | <input type="checkbox"/> |
| 3     |      |             |                     |      |                |         | <input type="checkbox"/> |
| 4     |      |             |                     |      |                |         | <input type="checkbox"/> |
| 5     |      |             |                     |      |                |         | <input type="checkbox"/> |
| 6     |      |             |                     |      |                |         | <input type="checkbox"/> |
| 7     |      |             |                     |      |                |         | <input type="checkbox"/> |
| 8     |      |             |                     |      |                |         | <input type="checkbox"/> |
| 9     |      |             |                     |      |                |         | <input type="checkbox"/> |
| 10    |      |             |                     |      |                |         | <input type="checkbox"/> |
| 11    |      |             |                     |      |                |         | <input type="checkbox"/> |
| 12    |      |             |                     |      |                |         | <input type="checkbox"/> |
| 13    |      |             |                     |      |                |         | <input type="checkbox"/> |
| 14    |      |             |                     |      |                |         | <input type="checkbox"/> |
| 15    |      |             |                     |      |                |         | <input type="checkbox"/> |

Page 1   Prev   Next   Delete   Delete All

## 4.6 Security

To display & configure theWeb Password Modify, Web Session, SSH, Remote Control Address IP list, and Web Server Certificate, Client Certificate.

### 4.6.1 Security Basic

To display & configure theWeb Password Modify, Web Session, SSH, Remote Control Address IP list.

**Paging Gateway**   Status   Account   Network   equipment   Maintenance   Security   Default password.  
2021/09/30 02:36

Basic  
Advanced

### Web Password Modify

|                  |                          |
|------------------|--------------------------|
| Username         | admin ▼                  |
| Current Password | <input type="password"/> |
| New Password     | <input type="password"/> |
| Confirm Password | <input type="password"/> |

### Web Session

|          |                 |
|----------|-----------------|
| Time Out | 300 (60~14400s) |
|----------|-----------------|

### SSH

|            |            |
|------------|------------|
| SSH Active | Disabled ▼ |
|------------|------------|

### Remote Control

|                        |                      |
|------------------------|----------------------|
| Allowed Access IP List | <input type="text"/> |
|------------------------|----------------------|

Submit
Cancel

\*

|                                       |                                                                                                                  |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------|
| Web Password Modify                   | Support 2 accounts, admin & user                                                                                 |
| Web Session                           | To configure interval of Web Session time out, means Web will back to the login page if long times no operation. |
| SSH                                   | To configure SSH login into the shell web page, default is Enable.                                               |
| Remote Control Allowed Access IP List | To configure remote control allowed access IP list to the doorphone.                                             |

## 4.6.2 Security Advanced

To configure upload the Web Server Certificate & Client Certificate, also check these certificates are valid or not, see as below.

**Paging Gateway**   **Status**   **Account**   **Network**   **equipment**   **Maintenance**   **Security**   **Default password**  
2021/09/30 02:3

Basic

Advanced

**Web Server Certificate**

| Index | Issue To | Issuer | Expire Time             | Delete                 |
|-------|----------|--------|-------------------------|------------------------|
| 1     | IPhone   | IPhone | Sun Oct 9 16:00:00 2034 | <a href="#">Delete</a> |

**Web Server Certificate Upload**

[Browse](#) not selected   [Submit](#)   [Cancel](#)

**Client Certificate**

| Index | Issue To               | Issuer               | Expire Time              |                          |
|-------|------------------------|----------------------|--------------------------|--------------------------|
| 1     | thawte Primary Root CA | Thawte Consulting cc | Sun Dec 30 23:59:59 2020 | <input type="checkbox"/> |
| 2     |                        |                      |                          | <input type="checkbox"/> |
| 3     |                        |                      |                          | <input type="checkbox"/> |
| 4     |                        |                      |                          | <input type="checkbox"/> |
| 5     |                        |                      |                          | <input type="checkbox"/> |
| 6     |                        |                      |                          | <input type="checkbox"/> |
| 7     |                        |                      |                          | <input type="checkbox"/> |
| 8     |                        |                      |                          | <input type="checkbox"/> |
| 9     |                        |                      |                          | <input type="checkbox"/> |
| 10    |                        |                      |                          | <input type="checkbox"/> |

[Delete](#)   [Cancel](#)

**Client Certificate Upload**

Index   [Auto](#)

## Chapter Five Fault Resolution

### Problem 1: LCD not bright

Check the AC power adapter to make sure it is the original power adapter. Check the power outlet. Make sure that the power supply of the outlet into which you plug the device is working properly. Try to plug another device into the outlet to make sure it can power up normally.

### Problem 2: Can't access the web interface

Check the connection between the PC port of the device and the computer network port to make sure everything is working.

Check if the IP address of the device is correct.

If it is a LAN, make sure that there is no conflict with the IP addresses of other devices on the network.

### Problem 3: Unable to call

Please check the network connection status of the device, if there is any abnormality, please check the network connection;

If the network connection is normal, please check whether the device has been

successfully  
registered;

If the network connection and registration are normal, please confirm whether the dialing rules are correct, or contact the service ip.

# I Appendix: Auto Provision

## 1.1 Description

This document is written to provide instructions for using the auto-provisioning function, which can make Dinstar DPA automatically update with the latest firmware, configurations, customized ringtones and local contacts stored on a DHCP/PnP/TFTP/FTP/HTTP/HTTPS server.

That is to say, DPA uses DHCP/PnP/TFTP/FTP/HTTP/HTTPS network protocols to get URL, and then download firmware or configuration files from that server. These configuration files and firmware will be used to update related parameters on the DPA.

By default, auto-provision is used only when DPA is idle, because the update might trigger a software reboot, which may interrupt a call.

Automatic deployment has the following features:

General configuration provisioning: In this scenario, a general configuration file is stored in the server and all DPAs download the same configuration file to update their parameters. The General configuration provisioning file usually name as c00000000006x.cfg.

C61: c000000000061.cfg

C62: c000000000062.cfg

C63: c000000000063.cfg

C64: c000000000064.cfg

C66: c000000000066.cfg

MAC based configuration provisioning: In this scenario, each configuration file is for a specific DPA with the MAC address that matches the file name. The parameters in this configuration file are for that specific DPA only.

## 1.2 Working Principle

A complete automatic update process consists of the following:

- Step 1. Administrator sets up the provisioning DHCP/PnP/TFTP/FTP/HTTP/HTTPS servers with the required information;
- Step 2. DPA gets the URL of the configuration file server;
- Step 3. DPA downloads the configuration file from the server with URL obtained in step 2.
- Step 4. The configuration parameters in the configuration file are written to the appropriate configuration files of the DPA;
- Step 5. If configuration file contains the content for upgrading the firmware, DPA will get the firmware and do a firmware update.

## 1.3 Ways to Obtain Server URL

When an DPA is powered on, it will try to obtain the upgrade server address in the following order: PNP Server DHCP Custom Option DHCP Option43 DHCP Option66User Specified Server. You can use any one of the above methods to set up the auto provisioning.

### 1.3.1 Enable PnP

PnP stands for Plug and Play. PnP provides a proprietary automatic upgrade, when PnP upgrade mode is enabled, the DPA will broadcast a "SIP SUBSCRIBE" in the network. A SIP server will reply with a "SIP NOTIFY" with the URL of the firmware and/or configuration file server.

The following procedure is for setting up PnP auto provisioning:

First, you need to configure the SIP server to have PNP and set the update server

URL in it.

Click "Upgrade -> PnP" on the Web interface of DPA, and then enable PNP(Default is Enabled). The DPA will use PNP to get the correct auto provisioning URL and download the firmware and the configuration files;

If Auto Provision mode is set(Default is Power On), the DPA will do the auto provisioning on the specified time frame as set in the automatic Auto Provision mode.

### PnP

|                 |            |            |
|-----------------|------------|------------|
| Active          | Enabled    | ▼          |
| Server Address  | 224.0.1.75 |            |
| Server Port     | 5060       |            |
| Update Interval | 1          | Hour(1-99) |

Submit

Cancel

**DHCP Option**

Custom Option

(DHCP Option 66/43 is Enabled by Default)

(128~254)

**Provisioning Server**

URL

Username



Password

Common AES Key

AES Key(MAC)

**Auto Provision**

Mode

Schedule

(0~23)

Min(0~59)

Clear MD5

Export Configuration Template

**Auto Provision Now**

Upgrade-Advanced

PNP Option

PNP Config

Enabled

DHCP Option

Custom Option

(128~254)

(DHCP Option 66/43 is Enabled by Default)

Manual Autop

URL

User Name

Password

Common AES Key

AES Key(MAC)

AutoP Immediately

Automatic Autop

Mode

Power On

Schedule

Sunday

22

Hour(0~23)

0

Min(0~59)

Clear MD5

Submit

Export Autop Template

Export

Submit

Cancel

Figure 0-1 Enable PNP Auto Provisioning

### 1.3.2 DHCP Custom Option

If DPA is set to use DHCP Option to obtain the auto provisioning URL, it will send a request to a DHCP server for a specific DHCP option code. First, you need to configure a DHCP option code on the Web interface of the DPA.

You can use any custom DHCP option code from 128 to 254:

Configure DHCP server to have a specific custom option code with the update server URL in it, for example, 230. And then the DPA will get the upgrade server URL from the DHCP server with the option code 230.

If autop mode is set, the DPA will do the auto provisioning on the specified time frame as set in the autop mode.

**DHCP Option**

Custom Option

(DHCP Option 66/43 is Enabled by Default)

 (128~254)**Provisioning Server**

URL

Username

Password

Common AES Key

AES Key(MAC)

**Auto Provision**

Mode

Schedule

 (0~23) Min(0~59)

Clear MD5

Export Configuration Template

**Auto Provision Now**

Upgrade-Advanced

PNP Option

PNP Config

Disabled

DHCP Option

Custom Option

230

(128~254)

(DHCP Option 66/43 is Enabled by Default)

Manual Autop

URL

User Name

Password

Common AES Key

AES Key(MAC)

AutoP Immediately

Automatic Autop

Mode

Power On

Schedule

Sunday

22

Hour(0~23)

0

Min(0~59)

Clear MD5

Submit

Export Autop Template

Export

Submit

Cancel

Figure 1-2 Configure DHCP Custom Option

### 1.3.3 DHCP Option 66

If none of the above is set, DPA will automatically use DHCP Option 66 for getting the upgrade server URL. This is done within the software and the user does not need to configure any parameters. DHCP Option 66 is enabled by default.

### 1.3.4 DHCP Option 43

If the DPA does not get an URL from DHCP Option 66, it will automatically use DHCP Option 43. This is done within the software and the user does not need to configure any parameters. DHCP Option 43 is enabled by default.

### 1.3.5 User-Specified Server:

You can manually set a specific server URL for downloading the firmware and/or configuration file.

Set update server URL (e.g., "tftp://172.21.02.03"), click [AutoP Immediately], the DPA will use the URL to download appropriate firmware and/or configuration files from the TFTP server and will upgrade with the downloaded files;

If autop mode is set, the DPA will do the auto provisioning on the specified time

frame as set in the autop mode.

|                                                            |                                          |
|------------------------------------------------------------|------------------------------------------|
| <b>DHCP Option</b>                                         |                                          |
| Custom Option<br>(DHCP Option 66/43 is Enabled by Default) | <input type="text"/> (128~254)           |
| <b>Provisioning Server</b>                                 |                                          |
| URL                                                        | <input type="text"/>                     |
| Username                                                   | <input type="text"/>                     |
| Password                                                   | <input type="password"/>                 |
| Common AES Key                                             | <input type="password"/>                 |
| AES Key(MAC)                                               | <input type="password"/>                 |
| <b>Auto Provision</b>                                      |                                          |
| Mode                                                       | <input type="text" value="Power On"/>    |
| Schedule                                                   | <input type="text" value="Sunday"/>      |
|                                                            | <input type="text" value="22"/> (0~23)   |
|                                                            | <input type="text" value="0"/> Min(0~59) |
| Clear MD5                                                  | <input type="button" value="Submit"/>    |
| Export Configuration Template                              | <input type="button" value="Export"/>    |
| <b>Auto Provision Now</b>                                  |                                          |
| <input type="button" value="Auto Provision Now"/>          |                                          |
| <input type="button" value="Submit"/>                      | <input type="button" value="Cancel"/>    |

**Upgrade-Advanced**

**PNP Option**

PNP Config Disabled ▼

**DHCP Option**

Custom Option (128~254)  
(DHCP Option 66/43 is Enabled by Default)

**Manual Autop**

URL tftp://172.21.02.03

User Name

Password \*\*\*\*\*

Common AES Key \*\*\*\*\*

AES Key(MAC) \*\*\*\*\*

AutoP Immediately

**Automatic Autop**

Mode Power On ▼

Schedule Sunday ▼

22 Hour(0~23)

0 Min(0~59)

Clear MD5 Submit

Export Autop Template Export

Submit Cancel

Figure 1-3 Configure Server URL Manually

You can also use FTP, HTTP, or HTTPS as the protocol for upgrading the firmware and/or configurations of the DPA. The format of them are as follows:

TFTP Format:

tftp://172.21.02.03/

FTP Format:

ftp://172.21.02.03/ (allows anonymous login)

ftp://username:password@172.21.02.03/ (requires a user name and password)

HTTP Format:

http://172.21.02.03/(use the default port 80)

http://172.21.02.03:8080/ (use other ports, such as 8080)

HTTPS Format:

https://192.168.0.19/(use the default port 443)

#### 1.3.6 Auto Provision modes:

DPA supports the following three modes:

Disable: Disables auto provision. The DPA will not check for any updates and will not upgrade the DPA automatically;

Power on: The DPA does the auto provisioning when the power is turned on;

Repeatedly: The DPA does the auto provisioning at specified time frame periodically;

Power on + Repeatedly: The DPA does the auto provisioning when the power is turned on, and meanwhile it will also does the auto provisioning at specified time frame periodically;

Hourly Repeat: The DPA does the auto provisioning hourly.

#### 1.4 Downloading Configuration File

There are two types of configuration files for download:

General configuration file: This configuration file has common configuration parameters for all DPAs.

MAC based configuration file: This configuration file is for use by a specific DPA with the specified MAC address. It is normally related to account information.

If you have both of these files on the server, DPA will first get the General configuration file first and then get the MAC-based configuration file using its MAC address as the ID.

#### 1.5 Configuration Parameter Description and Application

##### 1.5.1 Update configuration parameters

The parameters that will be updated should follow the following format in the configuration file, as shown in the following figure.

```

466 # Network Configuration
467
468 Config.Network.LAN.Type = 2
469 Config.Network.LAN.StaticIP = 172.18.2.134
470 Config.Network.LAN.SubnetMask = 255.255.0.0
471 Config.Network.LAN.DefaultGateway = 172.18.1.1
472 Config.Network.LAN.PrimaryDNS = 8.8.8.8
473 Config.Network.LAN.SecondaryDNS =
474 Config.Network.LAN.Enable = 1
475 Config.Network.LAN.UseStaticDNS = 0
476
477 Config.Network.PPPOE.User = Bob
478 Config.Network.PPPOE.Pwd = 123456
479
480 Config.Network.PC.Type = 1
481 Config.Network.PC.RouterIP = 10.0.0.1
482 Config.Network.PC.SubnetMask = 255.255.255.0
483 Config.Network.PC.EnabledDHCP = 1
484 Config.Network.PC.StartIP = 10.0.0.10
485 Config.Network.PC.EndIP = 10.0.0.100
486
487 Config.Network.8021X.ModeOf8021X = 0
488 Config.Network.8021X.Identity =
489 Config.Network.8021X.PwdMd5 = iwjBD8MXFYJGhM0k8fBofC27kly7u8EzUPVGQjfiXBUy8UYPLMFAGojx9QMo
490
491 Config.Network.RTPPORT.Max = 12000
492 Config.Network.RTPPORT.Min = 11800
493
494 Config.Network.QOS.SignalTos = 40
495 Config.Network.QOS.RtpTos = 40
496
497 Config.Network.LLDP.LLDPEnable = 0
498 Config.Network.LLDP.Interval = 30
499
500 Config.Network.VLAN.LanVlanEnable = 0
501 Config.Network.VLAN.LanVid = 1
502 Config.Network.VLAN.LanPriority = 0
503 Config.Network.VLAN.PcVlanEnable = 0
504 Config.Network.VLAN.PcVid = 1

```

Figure 1-4 part of the configuration file content

The name of the parameters in the configuration file is fixed, and the user can not make any changes, the user can only fill in the value, otherwise the update will fail.

Example: To set the PPPOE username and password info, you use the following format:

```

477 Config.Network.PPPOE.User = Bob
478 Config.Network.PPPOE.Pwd = 123456

```

Once the configuration file is updated successfully with the configuration file shown above, the user will login to the pppoe server by username (Bob) and password (123456).

#### 1.5.2 Firmware and/or Configuration File Update

The followings are some of the common file updates.

##### Firmware Update

To update firmware, you define the following lines in the configuration file:

Config.Firmware.Url = protocol name://address/path/filename

Example:

Config.Firmware.Url = tftp://172.21.02.03/1.0.0.135.rom

Note: there is no filename in the above Url. If no filename is in the firmware URL configuration, Dinstar DPA will search the default filename in the defined URL address.

##### Customized Ringtones

To set customized ringtones, you can define the following lines in the configuration file:

Config.Ringtone.Url = protocol name://address/path/filename

Example:

Config.Ringtone.Url = tftp://172.21.02.03/Ring1.wav

Note: Ring1.wav is a ringtone wav file. Total custom ringtone file size cannot be more than 100KB.

To update two customized ringtones, you define the following lines in the configuration file:

Config.Ringtone.Url = tftp://172.21.02.03/Ring1.wav

Config.Ringtone.Url = tftp://172.21.02.03/Ring2.wav

##### Update Local Contacts

To update local contacts, you define the following lines in the configuration file:

Config.Contact.Url = protocol name://address/path/filename

Example:

Config.Contact.Url = tftp://172.21.02.03/Contact.xml

Note: Contact.xml is the file name for the address book.

##### Update client certificate

To update client certificate, you can define the following lines in the configuration file:

Config.Certificate.01.Url=protocol name://address/path/filename

Config.Certificate.02.Url=protocol name://address/path/filename

Config.Certificate.03.Url=protocol name://address/path/filename

Config.Certificate.04.Url=protocol name://address/path/filename

Config.Certificate.05.Url=protocol name://address/path/filename

Config.Certificate.06.Url=protocol name://address/path/filename

Config.Certificate.07.Url=protocol name://address/path/filename

Config.Certificate.08.Url=protocol name://address/path/filename

Config.Certificate.09.Url=protocol name://address/path/filename

Config.Certificate.10.Url=protocol name://address/path/filename

Example:

Config.Certificate.01.Url=tftp://172.21.02.03/Cert1

##### Update Auto Provision Settings

To update auto provision settings, you define the following lines in the configuration file:

Config.Autoprovision.GENERAL.Url = url

Config.Autoprovision.GENERAL.UserName = username

Config.Autoprovision.GENERAL.Pwd = encrypted password

Config.Autoprovision.CFG.Version = 1.3

Example:

```
# Autoprovision Configuration
Config.Autoprovision.GENERAL.Url = http://192.168.0.20
Config.Autoprovision.GENERAL.UserName = dinstar
Config.Autoprovision.GENERAL.Pwd
t6KcQqloYZwyXprC1kMltj+PcQ2DfCy3QfX38JJQNImCXMMzlgMtpPBBQfeh
Config.Autoprovision.CFG.Version = 1.3
```

| Provisioning Server           |                                                  |
|-------------------------------|--------------------------------------------------|
| URL                           | <input type="text" value="http://192.168.0.20"/> |
| Username                      | <input type="text" value="dinstar"/>             |
| Password                      | <input type="password" value="....."/>           |
| Common AES Key                | <input type="text"/>                             |
| AES Key(MAC)                  | <input type="text"/>                             |
| Auto Provision                |                                                  |
| Mode                          | <input type="text" value="Power On"/>            |
| Schedule                      | <input type="text" value="Sunday"/>              |
|                               | <input type="text" value="22"/> (0~23)           |
|                               | <input type="text" value="0"/> Min(0~59)         |
| Clear MD5                     | <input type="button" value="Submit"/>            |
| Export Configuration Template | <input type="button" value="Export"/>            |

Note: The password in the configuration is encrypted. So the best way to update password is to set the value in the web and export the configuration

#### Update SIP Account

To set sip account, you can define the following lines in the configuration file:

```
Config.Account1.GENERAL.Enable = 1
Config.Account1.GENERAL.Label = label_dispaly_on_phone
Config.Account1.GENERAL.DisplayName = display_name
Config.Account1.GENERAL.UserName = sip_account
Config.Account1.GENERAL.AuthName = sip_account_for_authentication
Config.Account1.GENERAL.Pwd = password
Config.Account1.SIP.Server = sip_server_addr
Example:
Config.Account1.GENERAL.Enable = 1
Config.Account1.GENERAL.Label = test
Config.Account1.GENERAL.DisplayName = test
Config.Account1.GENERAL.UserName = 800
Config.Account1.GENERAL.AuthName = 800
Config.Account1.GENERAL.Pwd
1gOSM7OcF5xCXkAVM8HFtj+PcQ2DfCgPxPG3mscs8IKG9ZpoFUDxFVyQF5BA
Config.Account1.SIP.Server = 172.16.0.8
```

### SIP Account

|               |                                                                                         |
|---------------|-----------------------------------------------------------------------------------------|
| Status        | UnRegistered                                                                            |
| Account       | Account1 ▼                                                                              |
| Active        | Enabled ▼                                                                               |
| Display Label | test                                                                                    |
| Display Name  | test                                                                                    |
| Register Name | 800                                                                                     |
| Username      | 800  |
| Password      | •••••                                                                                   |

### SIP Server 1

|                      |            |      |             |
|----------------------|------------|------|-------------|
| Server IP            | 172.16.0.8 | Port | 5060        |
| Registration Expires | 1800       |      | (30~65535s) |

Note: Password in the Example is encrypted. So the best way to set password in the configuration is to set it in the web and export the configuration.

To update other sip account, you can replace Account1 to Account2 or Account3, etc...

Update Language

To update Language, you define the following lines in the configuration file:

Config.Settings.LANGUAGE.Type = language\_id

Config.Settings.LANGUAGE.WebLang=language\_id

Example:

Config.Settings.LANGUAGE.Type = 2

Config.Settings.LANGUAGE.WebLang = 2

The language id is ranged from 0 to 15.

0:ENGLISH

2:CHINESE SIMPLIFIED

3:CHINESE\_TRADITIONAL

5:PORTUGUESE

6:SPANISH

7:ITALIAN

8:DUTCH

9:FRENCH

10:GERMAN

13:POLISH

14:TURKISH

15:RUSSIAN

## II Time Zone

| Time Zone | Time Zone Name                 |
|-----------|--------------------------------|
| -11       | Samoa                          |
| -10       | United States-Hawaii-Aleutian  |
| -10       | United States-Alaska-Aleutian  |
| -9        | United States-Alaska Time      |
| -8        | Canada(Vancouver,Whitehorse)   |
| -8        | Mexico(Tijuana,Mexicali)       |
| -8        | United States-Pacific Time     |
| -7        | Canada(Edmonton,Calgary)       |
| -7        | Mexico(Mazatlan,Chihuahua)     |
| -7        | United States-Mountain Time    |
| -7        | United States-MST no DST       |
| -6        | Canada-Manitoba(Winnipeg)      |
| -6        | Chile(Easter Islands)          |
| -6        | Mexico(Mexico City,Acapulco)   |
| -6        | United States-Central Time     |
| -5        | Bahamas(Nassau)                |
| -5        | Canada(Montreal,Ottawa,Quebec) |
| -5        | Cuba(Havana)                   |
| -5        | United States-Eastern Time     |
| -4:30     | Venezuela(Caracas)             |
| -4        | Canada(Halifax,Saint John)     |
| -4        | Chile(Santiago)                |

|       |                                                 |
|-------|-------------------------------------------------|
| -4    | Paraguay(Asuncion)                              |
| -4    | United Kingdom-Bermuda(Bermuda)                 |
| -4    | United Kingdom(Falkland Islands)                |
| -4    | Trinidad&Tobago                                 |
| -4    | Curaçao                                         |
| -3:30 | Canada-New Foundland(St.Johns)                  |
| -3    | Denmark-Greenland(Nuuk)                         |
| -3    | Argentina(Buenos Aires)                         |
| -3    | Brazil(no DST)                                  |
| -3    | Brazil(DST)                                     |
| -2    | Brazil(no DST)                                  |
| -1    | Portugal(Azores)                                |
| 0     | GMT                                             |
| 0     | Greenland                                       |
| 0     | Denmark-Faroe Islands(Torshaven)                |
| 0     | Ireland(Dublin)0 Portugal(Lisboa,Porto,Funchal) |
| 0     | Spain-Canary Islands(Las Palmas)                |
| 0     | United Kingdom(London)                          |
| 0     | Morocco                                         |
| 1     | Poland(Warsaw)                                  |
| 1     | Albania(Tirane)                                 |
| 1     | Austria(Vienna)                                 |
| 1     | Belgium(Brussels)                               |
| 1     | Caicos                                          |
| 1     | Chatham                                         |

|   |                        |
|---|------------------------|
| 1 | Croatia(Zagreb)        |
| 1 | Czech Republic(Prague) |
| 1 | Denmark(Copenhagen)    |
| 1 | France(Paris)          |
| 1 | Germany(Berlin)        |
| 1 | Hungary(Budapest)      |
| 1 | Italy(Rome)            |
| 1 | Luxembourg(Luxembourg) |
| 1 | Makedonia(Skopje)      |
| 1 | Netherlands(Amsterdam) |
| 1 | Namibia(Windhoek)      |
| 2 | Estonia(Tallinn)       |
| 2 | Finland(Helsinki)      |
| 2 | Gaza Strip(Gaza)       |
| 2 | Greece(Athens)         |
| 2 | Israel(Tel Aviv)       |
| 2 | Jordan(Amman)          |
| 2 | Latvia(Riga)           |
| 2 | Lebanon(Beirut)        |
| 2 | Moldova(Kishinev)      |
| 2 | Russia(Kaliningrad)    |
| 2 | Romania(Bucharest)     |
| 2 | Syria(Damascus)        |
| 2 | Turkey(Ankara)         |
| 2 | Ukraine(Kyiv,Odessa)   |

|       |                          |
|-------|--------------------------|
| 3     | East Africa Time         |
| 3     | Iraq(Baghdad)            |
| 3     | Russia(Moscow)           |
| 3     | 30 Iran(Teheran)         |
| 4     | Armenia(Yerevan)         |
| 4     | Azerbaijan(Baku)         |
| 4     | Georgia(Tbilisi)         |
| 4     | Kazakstan(Aqtau)         |
| 4     | Russia(Samara)           |
| 5     | Kazakstan(Aqtobe)        |
| 5     | Kyrgyzstan(Bishkek)      |
| 5     | Pakistan(Islamabad)      |
| 5     | Russia(Chelyabinsk)      |
| 5     | Russia(Yekaterinburg)    |
| +5:30 | India(Calcutta)          |
| 6     | Kazakstan(Astana,Almaty) |
| 6     | Russia(Novosibirsk,Omsk) |
| 7     | Russia(Krasnoyarsk)      |
| 7     | Thailand(Bangkok)        |
| 8     | China(Beijing)           |
| 8     | Singapore(Singapore)     |
| 8     | Australia(Perth)         |
| 9     | Korea(Seoul)             |
| 9     | Japan(Tokyo)             |
| +9:30 | Australia(Adelaide)      |

|        |                                      |
|--------|--------------------------------------|
| +9:30  | Australia(Darwin)                    |
| 10     | Australia(Sydney,Melbourne,Canberra) |
| 10     | Australia(Brisbane)                  |
| 10     | Australia(Hobart)                    |
| 10     | Russia(Vladivostok)                  |
| +10:30 | Australia(Lord Howe Islands)         |
| 11     | New Caledonia(Noumea)                |
| 12     | New Zealand(Wellington,Auckland)     |
| +12:45 | New Zealand(Chatham Islands)         |
| 13     | Tonga(Nukualofa)                     |

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