

Auto Provision Description

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1 Introduction

1.1 Overview

1. Module description

In auto provision, a terminal learns the server address where the configuration file is stored and other auto provision parameters, downloads the configuration file from the corresponding server, and parses and saves the configuration file locally for updates, such as firmware update.

2. Advantages

With auto provision, a large number of telephone sets can be remotely upgraded concurrently, saving time and labor.

1.2 Operation Process

Fanvil terminals can obtain auto provision parameters using four methods: SIP PnP, DHCP Option, Static Provisioning Server, and TR069. If all the four methods are configured, a terminal selects an upgrade mode based on the priorities of the four methods when being started.

Four transmission protocols are supported: FTP, TFTP, HTTP, and HTTPS.

Process:

- 1. Edit the configuration file, modify the content to be updated, save the configuration file under the corresponding server directory, and ensure that the server is started.
- 2. Log in to the webpage or LCD (not supported by some telephone sets) and start the method (SIP PnP, DHCP Option, Static Provisioning Server, or TR069) for obtaining auto provision parameters.
- 3. Restart the telephone set. When being started, the telephone set obtains the URL containing the server address where the configuration file is stored.
- 4. The telephone set parses the URL and downloads the configuration file from the corresponding server. Usually two configuration files need to be downloaded: general configuration file and device configuration file. If the two configuration files share the same file name, only one needs to be downloaded.
- 5. After the configuration file is successfully downloaded to the cache of the telephone set, check whether the content in the configuration file is the same as that in the existing configuration file on the telephone set. If the content is the same, cancel the upgrade. If the content is different, update the configuration file.
- 6. Check whether the new configuration involves new download items such as version, phone book, and certificate. If yes, start a task to download the corresponding items.
- 7. The process ends.

2 Detailed Classifications

2.1 Classification of Configuration Files

- 1. By function
 - General configuration file
 - Configuration file named by users
 - Configuration file named after MAC addresses
- 2. By format
 - > XML format
 - ➢ CFG format
 - TXT format
- 3. By encryption status
 - Unencrypted configuration file
 - Encrypted configuration file

2.2 Download Modes

SIP PnP, DHCP Option, Static Provisioning Server, and TR069

2.3 **Priorities of Download Modes**

The download modes are prioritized based on the configuration of a telephone set. Currently, the priorities of download modes cannot be modified on Android telephone sets. Specifically, the download modes are sorted in descending order of priority as follows: MDNS, FDPS, DHCP, TR069, SIP, and Flash.

2.4 Download Protocols

TFTP, FTP, HTTP, and HTTPS

2.5 Supported File Types

Firmware, phone book, etc, Background, and mmiset (Android telephone sets do not support logo and mmiset)

2.6 Auto Provision Operation Sequence

Write the configuration file correctly -> Configure a transmission protocol server -> Access the download mode preset for the telephone set -> Restart the device -> Obtain the configuration file -> Obtain the URL based on the configuration file and download upgrade files

3 Environment Requirements

DHCP server, SIP PnP, 3cx,TR069 server, HTTPS server, HTTP server, TFTP server, or FTP server

The used download protocol must match the server.

4 Auto Provision Details

4.1 Detailed Introduction to Classification of Configuration Files and Rules for Writing Configuration Files

1. By series

1) General configuration file

A general configuration file takes effect for all terminals. The general configuration file is named differently on different terminal models. The rules for naming the general configuration file are described as follows:

X series low-end color-screen, H series, and access control series telephone sets:

Model	Name of General Configuration File
X1	f0X1hw1.100.cfg
X2	f0X2hw1.100.cfg
X3S	f0X3Shw1.100.cfg
X4	f0X4hw1.100.cfg
H2S	f0H2Shw1.100.cfg
H3	f0H3hw1.100.cfg
H5	f0H5hw1.100.cfg
i16V	f0i16Vhw1.100.cfg
i20S	f0i20SVhw1.100.cfg
i30	f0i30hw1.100.cfg
i23S	f0i23Shw1.100.cfg
i31S	f0i31Shw1.100.cfg
i12	f0i12hw1.100.cfg
i18S	f0i18Shw1.100.cfg
PA2	f0PA2hw1.100.cfg
i13W	f0i13Whw1.100.cfg
I32V	f0i32Vhw1.100.cfg
133V	f0i33Vhw1.100.cfg

Model	Name of General Configuration File						
IW30	f0iW30hw1.100.cfg						
EIM-01	f0EIM-01hw1.100.cfg						

a) X series high-end color-screen telephone sets:

Model	Name of General Configuration File
X5S	F0V0X5S00000.cfg
X6	F0V00X600000.cfg
X7	F0V00X700000.cfg
X7C	F0V0X7C00000.cfg
X210	F0VX21000000.cfg

b) Android telephone sets:

Model	Name of General Configuration File
F600	f0F06000000.cfg
C600	f0C06000000.cfg
C400	f0C04000000.cfg

The general configuration file is helpful in automatic configuration deployment of a large number of terminals. For example, only a general configuration file F0V00X600000.cfg carrying firmware parameters needs to be placed on the automatic configuration server to automatically deploy firmware for 1000 X6 terminals.

2) Configuration file named by users

Users can define the name of a configuration file. For example, if a user names a device configuration file as name.cfg, the telephone set initiates a request to the server to download the general configuration file name.cfg. The user can enter the corresponding configuration file name and download the upgrade configuration from the server.

3) Configuration file named after MAC addresses

A configuration file named after a terminal MAC address is valid only for the terminal with the MAC address contained in the configuration file name. For a configuration file named after a MAC address, the MAC address contained in the file name is one for which the connectors are removed. For example, the MAC address of an X6 terminal is 00:15:65:11:3a:f8 and the configuration file name is 001565113af8.cfg. A user can upgrade the specified telephone set with this file.

2. By format

- 1) Supported file formats include cfg, txt, and xml.
- 2) Internal file format
- The file header is 64 characters long and ends with a carriage return character (\r\n). For example, <<VOIP CONFIG FILE>>Version:2.0002 Pay attention to the part "Version: 2.0002". If a telephone set is successfully upgraded using the auto provision mode, the version number (for example 2.0002) is displayed in the version number position on the webpage. If no version is carried, the digest of the configuration file is displayed.
- ➢ End of file

For example, <<END OF FILE>>

To update an option, the module header of this option must be carried.

For example, to modify "Host Name :", <GLOBAL CONFIG MODULE> must be carried.

<<VOIP CONFIG FILE>>Version:2.0002

<GLOBAL CONFIG MODULE> Host Name :VOIP (not less than 20 characters)

<<END OF FILE>>

- 3. By encryption status
 - 1) Unencrypted configuration file

The content of an unencrypted configuration file is displayed in plaintext, as shown in Figure 1.

<<VOIP CONFIG FILE>>Version:2.0002

<GLOBAL CONFIG MODULE>

Time Zone :32

<AUTOUPDATE CONFIG MODULE>

Auto Pbook Url	:tftp://123:1230172.16.6.70/500.csv
Auto Image Url	:http://123:123@172.16.6.70:8000/x4.z
Auto Etc Url	:tftp://172.16.6.70/sips.pem

<<END OF FILE>>

Figure 1

- 2) Encrypted configuration file
- The content of an encrypted configuration file is not displayed in plaintext, as shown in Figure 2.

文件 (E) 編輯 (E) 格式 (E) 查看 (Y) 帮助 (E) [?? Яп塣傹?] * IEV 鞂& 總書め 湌 (選 健 z Su 傍 汕 情 E = BGc + [U 厅 遜 箤 响 U I k 坓 4 休 醩 e E? ■ Y 第 * 鴒 * S<駆 ?? ■ ? J 邃 菜 ■ E 车 J ?? [? 栗 孷 ? ■ L 拆 i ■ ? 靵 SB 匝 c + 凕 螀 ? "■ T P 清 = 听 翈 甈 ? W 娟 焜 s v j 驮 遺 * ? * K f 委 X 炠 矓 e 哿 x # ? ■ ■ ? × 髦 N? 徧 l 糧 ? f 论 z m M Z 葉 T ?? j W? 貘 에 X 訊 船 (e ` W 巌 o 改 ■ o + ■ 庄 j 屆 辽 9 ? 緝 t 徧 \$ ■ 軽 E 門 ?? 右 ? 1 * ■ ? 梨 ? ? 親 ■ x ? p 碣 X 8 絃 \f & ? 威 魼 : Q ? \ 攮 ? (` ?? 禛 , c 3 ? 裔) 楝 ` j ? { ■ 珵 ; 鋰 v ? i * ? ? v ■ ?

Figure 2

If a downloaded configuration file is encrypted using AES, an AES key is required to decrypt the configuration file. The key must contain 64 hexadecimal characters (0 to F). All configuration files can be encrypted. Log in to the webpage and choose Maintenance > Auto Provision. Enter the key in config Encryption Key if an encrypted general configuration file is to be downloaded and in Common Config Encryption Key if other encrypted configuration files are to be downloaded, as shown in Figure 3. If a configuration file to be downloaded is not encrypted but you enter a key in the corresponding position, the telephone set considers the configuration file as an encrypted one.

Auto Provision Settings	
Current Config Version	2.0002
Common Config Version	2.0002
CPE Serial Number	00100400XH02001000000010e597052
User	
Password	
Config Encryption Key	
Common Config Encryption Key	
Save Auto Provision Information	
DHCP Option Settings >>	
Plug and Play (PnP) Settings >>	



4.2 URL

1. URL format

A URL indicates the information obtained by DHCP Option and SIP PnP through the server. The URL format is as follows:

Server protocol://user:password@Server IP:port/path/Configuration name.

For example, http://user:password@172.16.1.3:8080/ X4/\$mac.cfg

2. URL parsing

The following describes the functions and settings of different parts of a URL.

- 1) Server Protocol: transmission protocol used by the server. FTP, TFTP, HTTP, and HTTPS are supported. This part is mandatory.
- 2) User and Password: user name and password required for requesting information from the server. The two items are not mandatory when no user name and password are required for logging in to the server or the user name and password are entered on the webpage (Web > Maintenance > Auto Provision) of the telephone set. If the user name and password are required but you forget to enter them, or you enter the user name and

password incorrectly on the webpage, the telephone set requires you to enter the user name and password again on the LCD unless you abandon the upgrade.

Format of a URL without a user name and password: Server protocol:// Server IP:port/path/Configuration name

Auto Provision Settings	
Current Config Version	2.0002
Common Config Version	2.0002
CPE Serial Number	00100400XH02001000000010e597052
User	
Password	
Config Encryption Key	
Common Config Encryption Key	
Save Auto Provision Information	
DHCP Option Settings >>	
Plug and Play (PnP) Settings >>	
Dhong Elach Sattings >>	

Figure 4

- 3) Server Ip: IP address of the server, for example, 172.16.1.3 This part is mandatory.
- 4) Port: port number of the server, for example, 8080. This item is not mandatory. It is required only when the server defines a special port number.
 Format of a URL without a port number: Server protocol:// Server Ip/path/Configuration name
- 5) Path: save path of the configuration file. This item is mandatory if a level-2 or level-3 directory exists.
- 6) Configuration name: name of the configuration file. Here it refers to the name of the device configuration file. The name of the general configuration file is unchangeable. This item can be set as follows:

Left blank: If this item is left blank, the device configuration file (mac.cfg) named after the MAC address is downloaded by default.

- \$mac.cfg: The device configuration file (mac.cfg) named after the MAC address is downloaded.
- \$ \$input.cfg: The user is required to manually enter the device configuration file name on the LCD. (\$input.xml/\$input.txt)
- Specify the device configuration file name, for example, name1.cfg or name2.cfg.

4.3 Download Modes

- 1. DHCP Option
 - 1) To use the DHCP Option mode, the network mode of the telephone set must be DHCP.
 - 2) DHCP Option has four options: DHCP Option 66, DHCP Option 43, Custom DHCP Option, and DHCP Option Disable.

anvil							English 🔽 🗖	Logout (admin Keep Online)
	Information	Account	Configurations	Upgrade	Auto Provision	Tools	Reboot Phone		
> System	General Con Download Fa	figuration File Enc ail Check Times:	ryption Key:	1			0	files.	
Network	Update Con Save Auto P Download C	act Interval: rovision Information ommonConfig ena	on: bled:		(0,>=5)minute(s)	0		
Line	Enable Serv	er Digest:					0		
Phone settings	DHCP Option >> Option Value			Option 66	 ✓ Ø 				
Phonebook	Custom Opt Enable DHC	on Value: 9 Option 120:		66	(128~254)				
Call logs	DHCPv6 Option	>>							
Function Key	SIP Plug and Pla Static Provisioni	y (PnP) >> ng Server >>							
Application	TR069 >>								
Security			Apply						
68.3.210/information.htm			Curr Fanvil Technolog	ent Software Version: yy Co., Ltd. (C)2014 All	1.4.1 Rights Reserved.				

Figure 5

3) The value range of Custom DHCP option is 128–254. DHCP Option Disable indicates disabling DHCP Option.

After setup, the telephone set requests the DHCP server for option information when it is restarted or during DHCP renewal. If the server returns the requested option information, the telephone set obtains the URL based on the corresponding option information (filter BOOTP and view the ACK packet) in the captured packet and parses the URL. When auto provision parameters are obtained through DHCP, a user can choose any download mode. For example, if DHCP Option 43 is chosen when auto provision parameters are obtained through DHCP Discover and DHCP Request messages sent by the terminal to the server contain the following field values:

Option: (t=55,l=7) Parameter Request List

Option: (55) Parameter Request List

Length: 7

Value: 011c0302042b06

1 = Subnet Mask

28 = Broadcast Address

43 = Vendor-Specific Information

The DHCP Offer and DHCP ACK messages sent by the server to the terminal contain the following field values:

Option: (t=43,l=29) Vendor-Specific Information

Option: (43) Vendor-Specific Information

Length: 29

Value: 746674703a2f2f3139322e3136382e312e3131382f246d61...

Option: In (t=43,l=29) Vendor-Specific Information, the value is the hexadecimal format of the URL of the configuration file to be downloaded. That is, the value is <u>http://172.16.6.45/\$mac.cfg</u>. Fanvil terminals support replacing \$mac. The URL of Value can be http://ip/\$mac.cfg or http://ip/mac.cfg?mac=\$mac.cfg.

The auto provision parameters of DHCP Option 66 and Custom DHCP are the same as those of DHCP Option 43.

Note:

Fanvil terminals also support the URL format of http://ip/\$input.cfg. If in Option: (t=43,l=29) Vendor-Specific Information, Value is http://172.16.6.45/\$input.cfg, the telephone set displays a dialog box for entering the ID of the configuration file, which is assigned by the administrator. After the user enters the configuration file ID, the terminal automatically downloads from the server the configuration file corresponding to the ID. Fanvil terminals support replacing \$input. The URL of Value can be http://ip/\$input.cfg or http://ip/input.cfg?input=\$input.cfg.

4) Operation method

Take DHCP Option 66 as an example.

- > The network mode is set to DHCP for the telephone set.
- Log in to the webpage of the telephone set, access management setup, and select DHCP Option 66.
- Disconnect the external network, enable the DHCP server, and set Option 66 of the DHCP server to the URL where the configuration file is to be downloaded.
- Store the configuration file to be downloaded under the corresponding directory of the server.
- > Restart the telephone set and capture packets.
- For example, if the configured URL indicates downloading a custom XML configuration file through the TFTP server, the configuration file setting is shown in the following figure:

<VOIP CONFIG FILE>
<Digests>2.0002</Digests>
<GLOBAL CONFIG MODULE>
<Time_Zone>32<Time_Zone>
</GLOBAL CONFIG MODULE>
<AUTOUPDATE CONFIG MODULE>
<Auto Image Url> tftp://172.16.6.45/x4.z</Auto Image Url>
</AUTOUPDATE CONFIG MODULE>
</VOIP_CONFIG_FILE>
</VOIP_CONFICE

Figure 6

If only the time zone and image are to be downloaded, BOOTP and TFTP packets can be captured during the upgrade process. The information is also displayed on the corresponding server, as shown in Figure 6.

	擊	0	-	-	1		3	x	2		0				3	1		Ð	Q	0	-		Y		X		
--	---	---	---	---	---	--	---	---	---	--	---	--	--	--	---	---	--	---	---	---	---	--	---	--	---	--	--

Filter:	bootp		Expression Clear Apply									
No.	Time	Source	Destination	Protocol Ler	gth Info							
56	5 2014-03-12 11:00:02.528780	0.0.0.0	255.255.255.255	DHCP	309 DHCP Discover	- Transaction ID 0xc794b77c						
58	2014-03-12 11:00:02.784965	192.168.2.43	255.255.255.255	DHCP	351 DHCP Offer	- Transaction ID 0xc794b77c						
64	2014-03-12 11:00:07.779459	0.0.0.0	255.255.255.255	DHCP	321 DHCP Request	- Transaction ID 0xc794b77c						
65	2014-03-12 11:00:08.014926	192.168.2.43	255.255.255.255	DHCP	351 DHCP ACK	- Transaction ID 0xc794b77c						
11518	2014-03-12 11:02:23.287981	0.0.0.0	255.255.255.255	DHCP	309 DHCP Discover	- Transaction ID 0xc794b77c						
11519	2014-03-12 11:02:23.540799	192.168.2.43	255.255.255.255	DHCP	351 DHCP Offer	- Transaction ID 0xc794b77c						
11521	2014-03-12 11:02:28.538457	0.0.0.0	255.255.255.255	DHCP	321 DHCP Request	- Transaction ID 0xc794b77c						
11523	2014-03-12 11:02:28.832719	192.168.2.43	255.255.255.255	DHCP	351 DHCP ACK	- Transaction ID 0xc794b77c						



Figure 7

Tine 98 2014-03-12 1 99 2014-03-12 1 100 2014-03-12 1	11:00:28.669306	Source 192.168.16.1	Destination	Protocol	Length Info
98 2014-03-12 1 99 2014-03-12 1 100 2014-03-12 1	11:00:28.669306	192.168.16.1	107 168 7 75		
100 2014-03-12 1		100 169 16 1	102 168 2 45	TETP	96 Read Request, File: TOCOU620000.crg, Transfer type: octet, ts
100 1014-00-11 1	11:00:28 750542	102.168.2.45	192.106.2.43	TETP	520 Data Dackat Block: 1 (last)
101 2014-03-12 1	11:00:28 752106	192.168.16.1	192.168.2.45	тетр	60 Acknowledgement Block: 1
102 2014-03-12 1	11:00:28.752555	192,168,2,45	192, 168, 16, 1	TETP	348 Data Packet, Block: 1 (last)
103 2014-03-12 1	1:00:28.754296	192,168,16,1	192,168,2,45	TETP	60 Acknowledgement, Block: 1
112 2014-03-12 1	11:00:38.765034	192.168.16.1	192.168.2.45	TETP	85 Read Request, File: 62.z, Transfer type: octet, tsize\000=0\0
113 2014-03-12 1	11:00:38.767251	192.168.2.45	192.168.16.1	TETP	558 Data Packet, Block: 1
114 2014-03-12 1	L1:00:38.768835	192.168.16.1	192.168.2.45	TETP	60 Acknowledgement, Block: 1
115 2014-03-12 1	L1:00:38.768935	192.168.2.45	192.168.16.1	TETP	558 Data Packet, Block: 2
116 2014-03-12 1	L1:00:38.809249	192.168.16.1	192.168.2.45	TETP	60 Acknowledgement, Block: 2
117 2014-03-12 1	11:00:38.809418	192.168.2.45	192.168.16.1	TETP	558 Data Packet, Block: 3
118 2014-03-12 1	11:00:38.810939	192.168.16.1	192.168.2.45	TETP	60 Acknowledgement, Block: 3
119 2014-03-12 1	11:00:38.811025	192.168.2.45	192.168.16.1	TETP	558 Data Packet, Block: 4
120 2014-03-12 1	11:00:38.813277	192.168.16.1	192.168.2.45	TETP	60 Acknowledgement, Block: 4
121 2014-03-12 1	11:00:38.813348	192.168.2.45	192.168.16.1	TETP	558 Data Packet, Block: 5
122 2014-03-12 1	11:00:38.814872	192.168.16.1	192.168.2.45	TETP	60 Acknowledgement, Block: 5
123 2014-03-12 1	11:00:38.814941	192.168.2.45	192.168.16.1	TETP	558 Data Packet, Block: 6
124 2014-03-12 1	11:00:38.816503	192.168.16.1	192.168.2.45	TETP	60 Acknowledgement, Block: 6
125 2014-03-12 1	11:00:38.816598	192.168.2.45	192.168.16.1	TETP	558 Data Packet, Block: /
126 2014-03-12 1	11:00:38.818239	192.168.16.1	192.168.2.45	TETP	60 Acknowledgement, Block: /
12/ 2014-03-12 1	11:00:38.818334	192.168.2.45	192.168.16.1	TETP	558 Data Packet, Block: 8
128 2014-03-12 1	11:00:38.819893	192.168.16.1	192.168.2.45	TETP	60 Acknowledgement, Block: 8
129 2014-03-12 1	11:00:38.820028	192.168.2.45	192.168.16.1	TETE	558 Data Packet, Block: 9
130 2014-03-12 1	1:00:38.8215//	192.108.10.1	192.168.2.45	TETP	50 Acknowledgement, Block: 9
131 2014-03-12 1	11:00:38.821005	192.108.2.45	192.108.10.1	TETP	50 Data Packet, Block: 10
132 2014-03-12 1	11:00:38.82309/	192.108.10.1	192.100.2.45	TETP	550 Acknowledgement, Block: 10
133 2014-03-12 1	11:00:38.823/30	102 168 16 1	102 168 2 45	TETP	50 Add Packet, Block: 11
134 2014-03-12 1	11:00:38.823298	102 168 2 45	192.108.2.45	TETP	558 pata Packet Block: 12
136 2014-03-12 1	11.00.38.823431	102.100.2.40	102 168 2 45	TETO	50 bata Packet, Block, 12
137 2014-03-12 1	11:00:28 827064	192.168.2.45	192.168.16.1	TETP	558 Data Packet Block: 12
138 2014-03-12 1	11:00:28 828682	192.168.16.1	192.168.2.45	TETP	50 Acknowledgement Block: 12
100 2014-00-15 3	11.00.30.020002	102 160 2 45	102.100.2.45	TETO	SSE Data Dackot Plack 14
120 2014 02 12 1	11 +00+28 020750				

Figure 8

Figure 9

The URL download modes of DHCP Option 43 and Custom DPCH Option are the same as that described above.

HTTPS to upgrade

Since our locally built DHCP server does not support HTTPS upgrade, 1.3 server is needed, which is separately introduced here. The operation method is as follows (take option 66 as an example) :

cd /etcEnter the etc directory, cd /etc, via the SecureCRT.EXE telnet link to the server Open the file, vi dhcpd.conf

Press I after enter to edit and modify the corresponding item

After the modification, press Esc to exit the modification

Shift+ : to enter the save command (q!Do not save, wq save)

Restart DHCP server for the changes to take effect, service dhcpd restart

The configuration files to be downloaded are placed in the directory specified by the server Choose option 66

restart

caught



0000	00 03 07 a9 b4	86 54 e6	fc 6c 7e 3a 08 00 45 00	
0010	05 dc 88 44 40	00 40 06	27 2a c0 a8 01 03 c0 a8	D@.@. **
0020	03 5a 01 bb 04	Oc bf a9	88 a1 7c 63 cd 0d 80 10	. 7
0030	00 6c 07 25 00	00 01 01	08 0a ab b5 9b ee 00 00	1.%
0040	00 30 d2 1d 0c	24 53 96	88 3f 02 d3 d5 e9 ba 77	0 \$7 2 14
0050	17 bd ac 0e f5	ab a6 9b	9f 66 bb f3 33 5d d0 ff	£ 31
0060	df 24 bd 8d de	£2 67 91	c0 6c 21 5c 70 0c f6 dc	4
0070	c0 d2 07 06 0d	ba 76 35	11 Sc 25 01 b0 45 25 o7	594 194 594
0080	f4 1c 75 bc b0	20 64 70	04 80 d8 61 7c 8d 75 04	
00000		33 89 68	54 DE UD DI 7C DU 75 54	
0090	20 22 24 04 09	96 99 22		00
obao	2T 20 42 8/ 0C	ue 20 20	20 IA 90 9C 30 04 46 20	1P (@ @; une
0000	20 /0 43 02 60	D/ 14 32	as 9a ca 58 ci ab it 9e	-1C.m 2 X
0000	97 6d TT TT 29	1 62 ae co	5d C5 19 5C 98 39 T4 T6	.m∠D]\.9
0000	c0 2d 6e 7a 5c	e3 78 66	be 5d 09 9d 4t 5d t2 55	nz\.xt .]0].U
00e0	7e 58 ec 2b 37	e0 10 0†	†3 18 db 58 ac 76 14 d8	~X.+7X.V
OOFO	cb e2 e4 29 0b	dd 9f 71	b5 6f 8e db 3f 89 99 ef)q .o?
0100	3c d6 la el ef	Oc be ee	28 fd 56 34 5e d3 4e ab	< (
0110	3a b0 24 73 24	4c 7a dd	22 cd 27 cb f5 7d b4 1c	:.\$s\$Lz. ".'}
0120	bb 98 68 a6 2e	aa 5f 96	05 32 3c 4e d1 7e 20 d6	h
0130	80 91 dd a8 0b	6a db 3e	c2 46 70 5c 94 1a 1c 8c	i.> .Ep\
0140	d9 9e 39 48 fb	d6 df f4	33 6a 4f 69 1a b2 36 4a	9H 3ioi6J
01 50	71 bc 35 73 e0	d8 cf 11	2b 6b 4c 76 a2 62 7d 13	g. 55 +ki v. b].
0160	31 ca 33 47 b9	76 78 21	8d 93 e8 d5 9a e4 5c fe	1.36.1×1
0170	7d 8h 9c 8f 95	C4 23 8f	2e bb 08 88 d9 de 9e c5	3 4
01/0				

Figure 10

- 2. PnP
 - 1) PnP provides a SIP-based configuration upgrade/deployment method. Enter the server IP address and port and select Enable SIP PnP.

Fanvil							English 🔽 🗖	Logout (admin) Keep Online	
	Information	Account	Configurations	Upgrade	Auto Provision	Tools	Reboot Phone		
> System	General Cor Download F	figuration File Enc ail Check Times:	ryption Key:	1			0	files.	^
› Network	Update Con Save Auto P Download C	tact Interval: rovision Informatio ommonConfig ena	on: bled:		(0,>=5)minute(s)	0		
> Line	Enable Serv	er Digest:					0		
Phone settings	DHCP Option >> DHCPv6 Option	>>							
› Phonebook	SIP Plug and Pla	y (PnP) >>							
→ Call logs	Enable SIP F Server Addr	PnP: ess:		224.0.1.75			0		
Function Key	Transportati Update Inte	on Protocol: rval:		UDP ~	(1~99)Hour(s)		0		
Application	Static Provisioni	ng Server >>						<u>.</u>	_
> Security	TR069 >>		Apply						1
			Curr Fanvil Technolog	rent Software Version: gy Co., Ltd. (C)2014 Al	1.4.1 Rights Reserved.				l

Figure 11

If PnP is enabled for a terminal, the terminal sends a SIP SUBSCRIBE message periodically in multicast mode. A SIP server supporting this message responds to the message and returns a SIP NOTIFY message carrying the path of the auto configuration/deployment server. The terminal can obtain the configuration file to be downloaded from this path. This auto configuration/deployment method applies to scenarios without a default auto configuration/deployment server or scenarios where a terminal uses a static IP address and cannot automatically obtain related parameters through DHCP Option. In version X4 or later versions, if a terminal fails to obtain the address parameter from the PnP server, it continues to obtain the parameter through other processes, as shown in Figure 11.

<u>File</u>	dit <u>V</u> iew	<u>G</u> 0	<u>Capture</u>	Analy	/ze <u>S</u> ta	tistics	Telep	phony _	Tools	Intern	als <u>H</u> elp								
ex e			•	1 %	28	0	\$	🏟 🤣	7 3			⊕, ⊝		- 🗃		8 %	1	B	
Filter	sip									✓ E:	xpression.	C:	Lear /	apply					
No.	Time					Sourc	e			Desti	nation		Pro	tocol		Length	In	nfo	
44	8 2014-	03-17	09:53	:44.0	082324	192.	168.	3.102		192.	168.1.2	2	SI	Р		542	Re	equest: REGISTER sip:192.168.1.2	
44	9 2014-	03-17	09:53	:44.0	083145	192.	168.	1.2		192.	168.3.1	102	SI	P		363	3 St	status: 100 Trying (0 bindings)	
4	50 2014-	03-17	09:53	:44.0	084882	192.	168.	1.2		192.	168.3.1	102	SI	Р		442	2 St	itatus: 200 OK (1 bindings)	
4	51 2014-	03-17	09:53	:44.0	086012	192.	168.	3.102		192.	168.1.3	3	SI	Р		542	Re	equest: REGISTER sip:192.168.1.3	
4	52 2014-	03-17	09:53	:44.0	087246	192.	168.	1.3		192.	168.3.1	102	SI	Р		581	. St	itatus: 401 Unauthorized (O bindings)	
4	53 2014-	03-17	09:53	:44.0	92575	192.	168.	3.102		192.	168.1.3	3	SI	Р		700) Re	equest: REGISTER sip:192.168.1.3	
4	54 2014-	03-17	09:53	:44.0	94470	192.	168.	1.3		192.	168.3.1	102	SI	Р		544	St	itatus: 200 OK (O bindings)	
161	2 2014-	03-17	09:54	:23.0	051495	192.	168.	3.102		192.	168.1.2	2	SI	Р		544	Re	equest: REGISTER sip:192.168.1.2	
161	3 2014-	03-17	09:54	:23.0	052341	192.	168.	1.2		192.	168.3.1	102	SI	Р		362	2 St	tatus: 100 Trying (0 bindings)	
161	4 2014-	03-17	09:54	:23.0	054893	192.	168.	1.2		192.	168.3.1	102	SI	Р		445	5 St	itatus: 200 OK (1 bindings)	
161	7 2014-	03-17	09:54	:23.1	41466	192.	168.	3.102		192.	168.1.3	3	SI	Р		545	Re	equest: REGISTER sip:192.168.1.3	
161	8 2014-	03-17	09:54	:23.1	42746	192.	168.	1.3		192.	168.3.1	102	SI	Р		581	. St	tatus: 401 Unauthorized (0 bindings)	
162	21 2014-	03-17	09:54	:23.1	45543	192.	168.	3.102		192.	168.2.4	45	SI	Р		590) Re	equest: SUBSCRIBE sip:MAC000104050a13@192.168.	2.45
162	22 2014-	03-17	09:54	:23.1	51086	192.	168.	3.102		192.	168.1.3	3	SI	Р		702	Re	equest: REGISTER sip:192.168.1.3	
162	23 2014-	03-17	09:54	:23.1	52987	192.	168.	1.3		192.	168.3.1	102	SI	Р		599) St	itatus: 200 OK (1 bindings)	
162	24 2014-	03-17	09:54	:23.1	63914	192.	168.	2.45		192.	168.3.1	102	SI	Р		415	5 St	itatus: 200 OK	
16	25 2014-	03-17	09:54	:23.1	64053	192.	168.	2.45		192.	168.3.1	102	SI	P		586	5 Re	tequest: NOTIFY sip:192.168.3.102:5060	
162	26 2014-	03-17	09:54	:23.1	71291	192.	168.	3.102		192.	168.2.4	45	SI	Р		359) St	status: 200 OK	
16	33 2014-	03-17	09:54	:23.3	819391	192.	168.	3.102		192.	168.1.2	2	SI	Р		398	Re	equest: OPTIONS sip:192.168.1.2:5060	
16	84 2014-	03-17	09:54	:23.3	820174	192.	168.	1.2		192.	168.3.1	102	SI	Р		346	5 St	status: 100 Trying	
16	85 2014-	03-17	09:54	:23.3	320702	192.	168.	1.2		192.	168.3.1	102	SI	Р		377	' St	status: 404 Not Found	
16	86 2014-	03-17	09:54	:23.3	821876	192.	168.	3.102		192.	168.1.3	3	SI	Р		401	Re	equest: OPTIONS sip:192.168.1.3:5060	
16	37 2014-0	03-17	09:54	:23.3	322966	192.	168.	1.3		192.	168.3.1	102	SI	P		539) St	status: 200 OK	
17	57 2014-0	03-17	09:54	:27.3	394063	192.	168.	3.37		192.	168.1.2	2	SI	P		408	B Re	equest: OPTIONS sip:192.168.1.2:5060	
17	58 2014-0	03-17	09:54	:27.3	394872	192.	168.	1.2		192.	168.3.3	37	SI	P		349) St	status: 100 Trying	
17	59 2014-0	03-17	09:54	:27.3	395395	192.	168.	1.2		192.	168.3.3	37	SI	P		381	_ St	status: 404 Not Found	
232	21 2014-	03-17	09:54	:45.8	383664	192.	168.	3.102		192.	168.1.2	2	SI	Ρ		540) Re	equest: REGISTER sip:192.168.1.2	
232	22 2014-	03-17	09:54	:45.8	384519	192.	168.	1.2		192.	168.3.1	102	SI	Ρ		361	_ St	tatus: 100 Trying (0 bindings)	
232	23 2014-0	03-17	09:54	:45.8	386667	192.	168.	1.2		192.	168.3.1	102	SI	Ρ		441	_ St	tatus: 200 ΟΚ (1 bindings)	
232	27 2014-0	03-17	09:54	:45.9	975083	192.	168.	3.102		192.	168.1.3	3	SI	Ρ		542	2 Re	equest: REGISTER sip:192.168.1.3	
232	28 2014-	03-17	09:54	:45.9	976231	192.	168.	1.3		192.	168.3.1	102	SI	Ρ		581	_ St	tatus: 401 Unauthorized (0 bindings)	
232	29 2014-0	03-17	09:54	:45.9	981638	192.	168.	3.102		192.	168.1.3	3	SI	P		701	Re	equest: REGISTER sip:192.168.1.3	
23	30 2014-0	03-17	09:54	:45.9	983584	192.	168.	1.3		192.	168.3.1	102	SI	Р		601	. St	status: 200 OK (1 bindings)	
< 241	2 2014	02 17	00.54	. 40 7	57950	107	160	5 105		100	169 1 3	·	CTI	0		540) п/	Paguast: DECISTED sin:103 160 1 3	
E Era	me 1625	: 586	bytes	on w	ire (4	1688	bits'), 586	byte	s car	tured ((4688	bits)						
I Eth	ernet T	T. Sri	: Gia	a-Byt	48.00):ef	(50:	-5-49-4	48:00	ref)	DST: F	Dvico	05:0a	13 (00	0:01:	04:05	:0a	a·13)	
H Tht	ernet De	cotoc	nl ver	sion	4. 500	- 10	2.16	8.2.45	(102	168	2.45)	DST	192.14	58. 3. 10	12 (1	92.168	8.2	3, 102)	
H LICA	r Datao	am D	otoco	1. Sr	C Port	si	0 (50	060).	DST P	ort.	sin (50	060)	202.10		(1				
	sion In	itiat	ion Pr	otocc	1		- (5)	,			5.1p (50	,							
- Ses	equest_1	ine	NOTTE	v sir	197 1	68 3	102	5060	STP /2	0									
	escane k	Header	-	1 216			. 102.		04172										
	essane R	Body																	

ftp://1:1@192.168.2.45/\$input.xml\r\n \r\n

```
<! LUDATAL
   NOTIFY sip:[remote_ip]:5060 SIP/2.0
Via: SIP/2.0/[transport] [local_ip]:[local_port];branch=[branch]
   From: [$2]
   To: [$1]
    [last_Call-ID:]
   CSeq: 1 NOTIFY
   Max-Forwards: 70
   Content-Type: application/url
   Subscription-State: terminated; reason=timeout
Event: ua-profile; profile-type="device"; vendor="lishuai"; model="VOIP PHONE"; ven
   Content-Length:[len]
   tftp://172.16.6.45/$input.txt
                                               edit URL become you want in here
   ]]>
 </send>
 <recv response="200" crlf="true">
 </recv>
</scenario>
```



How to do it (for example, 3cx)

Log in phone web, turn on PNP, fill in PNP server address, PNP port, PNP protocol (udp, TCP), PNP cycle (generally default), restart phone

Log in 3cx, find the corresponding phone, send the configuration, and the server send notify to the phone, as shown in the figure

\$ 0.c	Time	- 3-042°C4	Destination	-Protocol	Longth Info	
+	14 2016/200 10:02:54.3	172.16.7.87	172.16.2.243	SIP	622 Request: NOTIFY	sip:172.16.2.243:5060
	15 2016/200 10:02:54.8	172.16.7.87	172.16.2.243	SIP	622 Request: NOTIFY	sip:172.16.2.243:5060
	16 2016/200 10:02:54.9	172.16.2.243	172.16.7.87	SIP	305 Status: 200 OK	
	17 2016/200 10:02:55.6	172.16.2.243	172.16.7.87	SIP	305 Status: 200 OK	
> Fram > Ethe	e 15: 622 bytes on wire (497 rnet II, Src: Vmware_c0:00:0	6 bits), 622 bytes 0 8 (00:50:56:c0:00:00	aptured (4976 bits) o 8), Dst: Barracud_04:0	on interface (00:25 (00:03:0	9 90:04:00:25)	
> Inte	rnet Protocol Version 4, Src	1 172.16.7.87. DStr	172.16.2.243			

User Datagram Protocol, Src Port: 5060 (5060), Dst Port: 5060 (5060) Session Initiation Protocol (MOTIFY) > Request-Line: NOTIFY sip:172.16.2.243:5060 SIP/2.0 > Ressage Header

Message Body http://172.16.7.87:5000/provisioning/2heis8y8jiy2/

Figure 14

- Static Provisioning Server 3.
 - 1) This process involves detecting and downloading server parameters.
 - The process depends on the setting of the configuration detection mode. If configuration detection is disabled, the terminal directly downloads the server parameters in the saved configurations without detection. This process supports HTTP, HTTPS, FTP, and TFTP. The user name and password are used for authentication by the server as required. The configurations can be downloaded after authentication. If a terminal fails to download a configuration file through the static provisioning server, the process of obtaining auto provision parameters automatically ends and the terminal no longer carries out the auto

configuration/upgrade deployment process.

Static Provisioning Server >>

Server Address	1.1.1.1	
Configuration File Name		
Protocol Type	FTP 🗸	
Update Interval	1	Hour
Update Mode	Update After Reboot	~

Figure 15

- 2) Operation method
- Configure the static provisioning server.
- Store the configuration file under the corresponding directory of the server.
- Restart the telephone set.
- 4. TR069

TR069 is a CPE WAN management protocol. It implements communication between the CPE and the ACS. It defines a piece of end user equipment of the application-layer protocol for remote management. An effective ACS is required before TR069 deployment. Two types of Fanvil endpoint ACSs are supported: CTC and common. Different ACSs provide different functions. CTC supports the XML format whereas common ACSs support SIP information, configuration file, and firmware configurations. If it is disabled, a telephone set cannot detect TR069.

	Information	Account	Configurations	Upgrade	Auto Provision	Tools	Reboot Phone	
	Enable Serv	er Digest:					0	
/stem	DHCP Option >>							
work	DHCPv6 Option	>>						
	SIP Plug and Pla	y (PnP) >>						
	Static Provisioni	ng Server >>						
ne settings	TR069 >>							
	Enable TR06	9:					0	
nebook	ACS Server	Type:		Common 🗸			0	
	ACS Server	URL:		http://192.168.3.4	3:80/en		0	
logs	ACS User:			admin			0	
	ACS Passwo	rd:					0	
ction Key	Enable TR06	9 Warning Tone:					0	
	TLS Version:			TLS 1.0 ~			0	
lication	INFORM Sen	ding Period:		3600	(1~9999)second	(s)	0	
			Annly					
			Uhhu					

Figure 16

After TR069 is enabled and the telephone set is restarted, capture HTTP packets. It is found that the telephone set sends a connection request and then an authentication request to the server. For an authentication success, the server returns a 200 OK message carrying script content for operating the telephone set. To perform corresponding operations on the telephone set, log in to the TR069 server (htt http://172.16.1.16:8081/openacs) and perform related configuration.

For example, download a configuration file.

- Log in to the TR069 server. Find the Download option on the Configuration scripts page, copy the content to the default option, and modify the path for downloading the configuration file based on the actual situation.
- Start the corresponding server.
- Store the configuration file under the specified directory.
- Enable TR069 for the telephone set and restart it.
- > Restart the telephone set and capture packets.

Filter:	http&&ip. addr==192. 168. 3. 227		🔽 Expression Clear	Apply	
No.	Time	Source	Destination	Protocol	Length Info
550	2014-03-20 16:44:24.026089	192.168.3.227	192.168.2.80	HTTP/XML	383 POST /openacs/acs HTTP/1.1
553	8 2014-03-20 16:44:24.072927	192.168.2.80	192.168.3.227	HTTP/XML	931 HTTP/1.1 200 OK
555	2014-03-20 16:44:24.085523	192.168.3.227	192.168.2.80	HTTP	297 POST /openacs/acs HTTP/1.1
560	2014-03-20 16:44:24.176453	192.168.2.80	192.168.3.227	HTTP/XML	1184 HTTP/1.1 200 OK
573	3 2014-03-20 16:44:24.700657	192.168.3.227	192.168.2.80	HTTP/XML	1054 POST /openacs/acs HTTP/1.1
576	5 2014-03-20 16:44:24.711166	192.168.3.227	192.168.2.80	HTTP/XML	951 POST /openacs/acs HTTP/1.1
2344	2014-03-20 16:44:29.718727	192.168.2.80	192.168.3.227	HTTP/XML	1171 HTTP/1.1 200 OK
3503	3 2014-03-20 16:44:34.728476	192.168.2.80	192.168.3.227	НТТР	260 HTTP/1.1 204 No Content
3551	2014-03-20 16:44:36.746601	192.168.3.227	192.168.2.80	HTTP/XML	1054 POST /openacs/acs HTTP/1.1
5893	8 2014-03-20 16:44:41.759777	192.168.2.80	192.168.3.227	HTTP	260 HTTP/1.1 204 No Content
32360	2014-03-20 16:45:35.708614	192.168.3.227	192.168.2.80	HTTP/XML	390 POST /openacs/acs HTTP/1.1
32363	2014-03-20 16:45:35.753126	192.168.2.80	192.168.3.227	HTTP/XML	930 HTTP/1.1 200 OK
32365	2014-03-20 16:45:35.760074	192.168.3.227	192.168.2.80	HTTP/XML	1120 POST /openacs/acs HTTP/1.1
32367	2014-03-20 16:45:35.773870	192.168.2.80	192.168.3.227	HTTP/XML	825 HTTP/1.1 200 OK
32369	2014-03-20 16:45:35.777379	192.168.3.227	192.168.2.80	HTTP	297 POST /openacs/acs HTTP/1.1
32371	2014-03-20 16:45:35.800500	192.168.2.80	192.168.3.227	HTTP	260 HTTP/1.1 204 No Content
42648	3 2014-03-20 16:46:36.707904	192.168.3.227	192.168.2.80	HTTP/XML	381 POST /openacs/acs HTTP/1.1
42652	2014-03-20 16:46:36.733902	192.168.2.80	192.168.3.227	HTTP/XML	930 HTTP/1.1 200 OK
42654	2014-03-20 16:46:36.741470	192.168.3.227	192.168.2.80	HTTP	297 POST /openacs/acs HTTP/1.1
42657	2014-03-20 16:46:36.812133	192.168.2.80	192.168.3.227	HTTP/XML	1044 HTTP/1.1 200 OK
42659	2014-03-20 16:46:36.817114	192.168.3.227	192.168.2.80	HTTP/XML	1214 POST /openacs/acs HTTP/1.1
43513	2014-03-20 16:46:41.834938	192.168.2.80	192.168.3.227	HTTP/XML	1185 HTTP/1.1 200 OK
43515	2014-03-20 16:46:41.839255	192.168.3.227	192.168.2.80	HTTP/XML	973 POST /openacs/acs HTTP/1.1
43519	2014-03-20 16:46:41.890554	192.168.2.80	192.168.3.227	HTTP/XML	1184 HTTP/1.1 200 OK
43539	2014-03-20 16:46:42.695922	192.168.3.227	192.168.2.80	HTTP / XMI	1054 POST /openacs/acs HTTP/1.1
< /					



製 聖		♀ ♀ ♀ ♂ ₫		. 🖾 🎆 🖾	畅 ¾ 🙀	
Filter:	http&&ip. addr==192. 168. 3. 227		🖌 Expression Clear	Apply		
No.	Time	Source	Destination	Protocol	Length Info	
331	2014-03-26 10:52:17.661837	192.168.3.227	192.168.2.80	HTTP/XML	370 POST /openacs/acs HTTP/1.1	
334	2014-03-26 10:52:17.689248	192.168.2.80	192.168.3.227	HTTP/XML	930 HTTP/1.1 200 OK	
336	2014-03-26 10:52:17.696180	192.168.3.227	192.168.2.80	HTTP	297 POST /openacs/acs HTTP/1.1	
338	2014-03-26 10:52:17.779637	192.168.2.80	192.168.3.227	HTTP	260 HTTP/1.1 204 No Content	
1024	2014-03-26 10:53:18.574996	192.168.3.227	192.168.2.80	HTTP/XML	370 POST /openacs/acs HTTP/1.1	
1027	2014-03-26 10:53:18.605811	192.168.2.80	192.168.3.227	HTTP/XML	931 HTTP/1.1 200 OK	
1029	2014-03-26 10:53:18.611943	192.168.3.227	192.168.2.80	HTTP	297 POST /openacs/acs HTTP/1.1	
1032	2014-03-26 10:53:18.741558	192.168.2.80	192.168.3.227	HTTP/XML	1044 HTTP/1.1 200 OK	
1034	2014-03-26 10:53:18.746495	192.168.3.227	192.168.2.80	HTTP/XML	1214 POST /openacs/acs HTTP/1.1	
1074	2014-03-26 10:53:23.811093	192.168.2.80	192.168.3.227	HTTP/XML	1186 HTTP/1.1 200 OK	
1076	2014-03-26 10:53:23.815638	192.168.3.227	192.168.2.80	HTTP/XML	923 POST /openacs/acs HTTP/1.1	
1078	2014-03-26 10:53:23.883478	192.168.2.80	192.168.3.227	HTTP	260 HTTP/1.1 204 No Content	
1237	2014-03-26 10:53:44.574558	192.168.3.227	192.168.2.80	HTTP/XML	385 POST /openacs/acs HTTP/1.1	
1240	2014-03-26 10:53:44.605842	192.168.2.80	192.168.3.227	HTTP/XML	931 HTTP/1.1 200 OK	
1242	2014-03-26 10:53:44.612567	192.168.3.227	192.168.2.80	HTTP	297 POST /openacs/acs HTTP/1.1	
1245	2014-03-26 10:53:44.685657	192.168.2.80	192.168.3.227	HTTP/XML	1044 HTTP/1.1 200 OK	
1247	2014-03-26 10:53:44.691066	192.168.3.227	192.168.2.80	HTTP/XML	1214 POST /openacs/acs HTTP/1.1	
1249	2014-03-26 10:53:44.724849	192.168.2.80	192.168.3.227	HTTP	260 HTTP/1.1 204 No Content	

Figure 17

4.4 Supported File Types

1. Firmware

Telephone set version. The function of comparing the digests of supported versions is automatically deployed. During upgrade, modify the digest of the version; otherwise, a version can be downloaded only once.

Example of the URL in the configuration file (txt format): Auto Image Url :ftp://172.16.6.70:8000/x4.z

<<VOIP CONFIG FILE>>Version:2.0002

<AUTOUPDATE CONFIG MODULE>

Auto Image Url :ftp://123:123@172.16.6.70:8000/x4.z

<<END OF FILE>>

Figure 18

 Phone book The phone book supports three formats: xml, vcf, and csv. Auto Pbook Url :tftp://123:123@172.16.6.70/500.vcf

<<VOIP CONFIG FILE>>Version:2.0002

<AUTOUPDATE CONFIG MODULE>

Auto Pbook Url :tftp://123:123@172.16.6.70/500.csv <<END OF FILE>>

Figure 19

3. etc The certificate file supports a range of suffixes: bin, crt, key, ovpn, and xml. Auto etc Url :ftp://1:1@172.16.6.70/sips.pem
<<VOIP CONFIG FILE>>Version:2.0002 |

<AUTOUPDATE CONFIG MODULE>

Auto Etc Url :tftp://172.16.6.70/sips.pem

<<END OF FILE>>

Figure 20

Background
 Background image, fixed with background name, BMP format.
 Auto Logo Url :tftp://172.16.6.70/background.bmp

<<VOIP CONFIG FILE>>Version:2.0002

<AUTOUPDATE CONFIG MODULE>

Auto Logo Url :tftp://172.16.6.70/background.bmp

<<END OF FILE>>

Figure 21

5. mmiset

The mmiset file contains all webpage and customization information about a telephone set. The .mmiset format is not supported in auto provision of telephone sets. Compress the .mmiset file in .z format for upgrade.

Auto Mmiset Url :

tftp://123:123@172.16.6.45/mmiset6 SpanishT20131206171925.z

<<VOIP CONFIG FILE>>Version:2.0002

<AUTOUPDATE CONFIG MODULE>
Auto Mmiset Url :tftp://123:123@172.16.6.45/mmiset6_SpanishT20131206171925.z

<<END OF FILE>>

Figure 22

6. Dialpeer.csv(industry support only)

Dialing rules, fixed to dialPeer name, in CSV format. Auto DPeer Url :ftp://123:123@172.16.6.45:8080/dialPeer.csv

<<VOIP CONFIG FILE>>Version:2.0002

<AUTOUPDATE CONFIG MODULE>

Auto DPeer Url :ftp://123:1230172.16.6.45:8080/dialPeer.csv

<<END OF FILE>>

Figure 23

7. Access table(only the supported models of access control series are i31s, i30, i23s,

i20s, i32v and i33V)

Automatically update accessList, fixed to accessList name, for CSV format Auto AList Url :ftp://123:123@172.16.6.45:8080/accessList.csv <<VOIP CONFIG FILE>>Version:2.0002

<AUTOUPDATE CONFIG MODULE>

Auto AList Url :ftp://123:1230172.16.6.45:8080/accessList.csv

<<END OF FILE>>

Figure 24

4.5 Save Auto Provision Information

Select this item on the webpage, as shown in Figure 25.

Auto Provision Settings	
Current Config Version	2.0002
Common Config Version	2.0002
CPE Serial Number	00100400FV0200100000000307a9b486
User	
Password	
Config Encryption Key	
Common Config Encryption Key	
Save Auto Provision Information	



If a telephone set uses a custom configuration file for upgrade, the telephone set displays a dialog box for entering the configuration file ID at initial upgrade and then the telephone set downloads the configuration file. At the second upgrade, the telephone set remembers the configuration file ID and directly downloads the configuration file.

Note: The auto provision application is updated and the internal format of the configuration file is no longer restricted.

A configuration file cannot be downloaded twice consecutively. To achieve this purpose, modify the time zone or add spaces.

4.6 Auto Provision Access Table list

First click export access list, edit the information to be imported in the table, and upgrade the list through automatic upgrade. After the upgrade, you can see the import details in the access list.

Import Access Table								
Select File		Browse (ac	cessList.c	sv) 🚺 Upda	ate			
Access Table >>								
						Click he	ere to Save Access I	able
Total: 1	Prev Page: 1	▼ Next					Delete Delete	All
Total: 1	Prev Page: 1 ID Department Pos	Next	r Fwd Number	Access Code	Double Profi	Click he	Delete Delete Delete	All Card State

Figure 26