

UC100 User Manual v1.0



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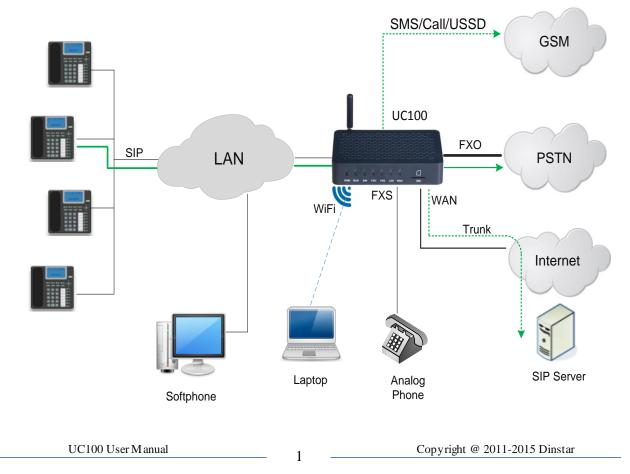
1.1 Overview

UC100 is a multi-functional and all-in-one gateway, which integrates voice service and data service. It provides three voice ports (including GSM, FXS and FXO), offering seamless connectivity to VoIP Network, PLMN and PSTN. Based on SIP, it not only can interacts with VoIP network, but also supports four types of GSM frequency ranges, thus meeting the worldwide requirements about the mobile network. UC100 supports WiFi and has high-speed data-handling capacity, allowing users to enjoy high-speed internet surfing through WiFi or the LAN port.

With VPN transparent transfer function, UC100 is ideally suitable for personal use. Meanwhile, it is perfect for small and micro enterprises, providing high-speed internet access, good voice service as well as message service.

1.2 Application Scenario

UC100 provides high-quality and cost-effective VoIP solution. Its application scenario is shown as follows:



1.3 Product Appearance

1.3.1 Images of UC100



1.3.2 Description of Indicators

Indicator	Status	Description	
PWR	Flash slowly	The system is initialized successfully and is in normal running.	
	On green	The system is being initialized.	
On dull		There is no power supply or power supply is abnormal.	
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WiFi	Flash quickly	WiFi is in normal running			
	On dull	WiFi is turned off.			
GSM	Flash slowly	SIM card has not yet been inserted or SIM card is not registered.			
	Flash quickly	SIM card is successfully registered.			
	On dull	Fault occurs in GSM module			
FXS/FXO	Flash slowly	FXS/FXO is idle or no off-hook is detected.			
	On green	FXS/FXO is in off-hook status.			
	On dull	Fault occurs in FXS/FXO module			
WAN/LAN	Flash quickly	Network is successfully connected.			
	On dull	Network does not work or network cable is not connected.			

1.4 Features & Functions

1.4.1 Key Features

- FXS/FXO/GSM interface on a single device/gateway
- Send/receive calls from PSTN/PLMN via FXO/GSM
- Flexible dial plan, via time, numbers, source IP etc.
- IVR customization
- High speed NAT forwarding, support WIFI hotspot
- Built-in SIP server, support up to 8 SIP Extensions
- User-friendly web interface, multiple management ways

1.4.2 Software Features

- Ring Group
- Routing Groups
- Caller/Called Number Manipulation
- Routing Base on Time Period
- Routing Base on Caller/Called Prefixes
- Routing Base on Source Trunks
- Dial Rules

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- Failover Routing
- FXO Impedance Auto Match
- IVR Customization
- Auto Attendant Function
- CDRs

1.4.3 Voice Capabilities

- VoIP Protocols: SIP over UDP/TCP/TLS, SDP, RTP/SRTP
- Codecs: G.711a/µ law,G.723.1, G.729A/B, iLBC,G.726
- Silence Suppression
- Comfort Noise Generator(CNG)
- Voice Activity Detection(VAD)
- Echo Cancellation: G.168 with up to 128ms
- Dynamic Jitter Buffer
- Adjustable Gain Control
- Automatic Gain Control (AGC)
- Call Progress Tones: Dial Tone, Ring Back Tone, Busy Tone
- FAX: T.38 and Pass-through
- NAT: STUN/UPnP
- DTMF: RFC2833/Signal/Inband

1.4.4 Supplementary Services

- Call Waiting
- Call Transfer (Blind & Attended)
- Call Forwarding (Unconditional/Busy/No Reply)
- Call Holding
- No Disturbing
- Hotline

1.4.5 Physical Interfaces

- FXO Port: 1
- FXS Port: 1
- SIM Slot: 1
- Ethernet Interfaces: 1WAN&1LAN 10/100 Base-T RJ45
- WIFI: 2.4GHz, 802.11n

1.4.6 FXS

- Connector: RJ11
- Caller ID: Bellcore Type 1&2, ETSI,BT,NTT and DTMF
- Answer and Disconnect Signaling: Answer, Disconnect, Busy Tone
- Polarity Reversal
- Hook Flash

1.4.7 FXO

- Connector: RJ11
- Caller ID: FSK, DTMF
- Polarity Reversal
- Answer Delay
- Busy Tone Detection
- No Current Detection

1.4.8 Mobile

- GSM: 850/900/1800/1900MHz
- SIM/UIM: 1 SIM/UIM per Channel
- SIM Card: 1.8V, 3.0V
- Antenna: 3.0dB, SMA Interface
- SMS/USSD
- Bulk SMS
- SMS Code/Decode: ASCII, Unicode
- IMEI/PIN Code Management

1.4.9 Hardware Specifications & Environment

- Power Supply: 12VDC, 1A
- Power Consumption: 10W
- Operating Temperature. 0 $^{\circ}$ C ~ 45 $^{\circ}$ C
- Storage Temperature: -20 °C ~80 °C
- Humidity: 10%-90%, Non-Condensing
- Dimensions (W/D/H): 126×75×25mm
- Unit Weight: 0.7kg

2.1 Precautions for Installation

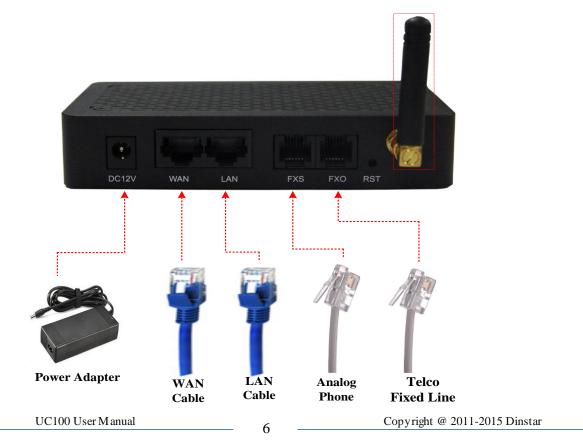
The precautions for installing UC100 include:

- The adapter of UC100 accepts AC input voltage of 110- 220 V and converts it to 12V DC; Please ensure stable and safe power supply;
- Network interface should be standard RJ45 with 10Mbps or 100Mbps;
- Make sure the antenna of UC100 is well-connected;
- If you want UC100 to communicate with the GSM network, please insert an SIM card.

Note: Please check whether power supply is up to the above requirement; otherwise, UC100 and its power adapter may be damaged.

2.2 Installation Procedures

- Connect the antenna to the UC100 device
- Connect the power adapter to the power port;
- Connect network cable to the LAN port or the WAN port;
- Connect telephone wire to the FXO port and the FXS port;
- Insert SIM card to the SIM slot.

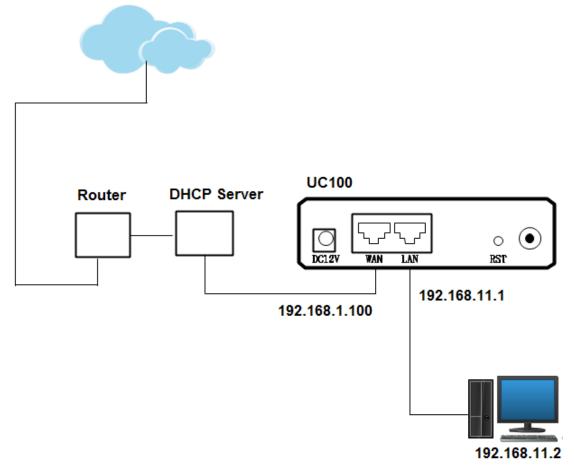


2.3 Network Connection

UC100 works in two modes: route mode and bridge mode. When it is under the route mode, the IP address of WAN port must be different from the IP address of LAN port. But when it is under the bridge mode, the IP address of WAN port and the IP address of LAN port are the same.

2.3.1 Network Connection Diagram under Route Mode

Under the route mode, the default IP address of WAN port is a DHCP IP address, while the default IP address of the LAN port is a static IP address, namely 192.168.11.1.



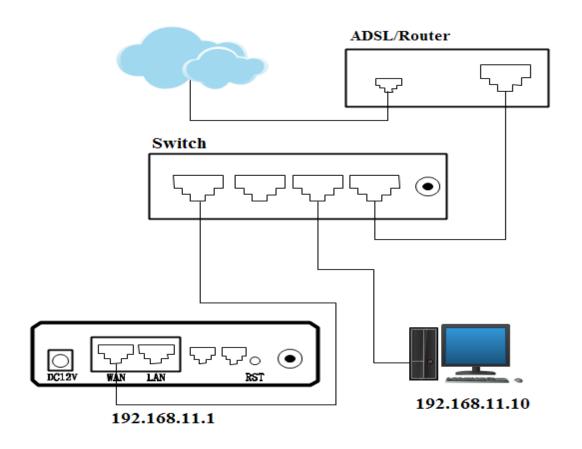
Note: The IP address of LAN port of UC100 and the IP address of PC are at the same network segment, while the IP address of WAN port is at a different network segment.

2.3.2 Network Connection Diagram under Bridge Mode

Under the Bridge mode, both the default IP address of WAN port and that of LAN port are 192.168.11.1.

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Note: The IP address of PC and the IP address of WAN port of UC100 are at the same network segment.

For more details about installation, please make reference to Quick Installation Guide.

3.1 Methods to Number Dialing

There are two methods to dial telephone number or extension number:

- Dial the called number and wait for 4 seconds for dialing timeout, or dial the called number directly (the system will judge whether the dialing is completed according to the Digitmap dialplan format).
- Dial the called number and press #.

3.2 Call Holding

If a calling party places a call to a called party which is otherwise engaged, and the called party has the call holding feature enabled, the called party is able to switch to the new incoming call while keeping the current call holding on by pressing the flash button or the flash hook.

When the called party presses the flash button or the flash hook once again, he or she will switch back to the first call.

3.3 Call Waiting

If a calling party places a call to a called party which is otherwise engaged, and the called party has the call waiting feature enabled, the calling party will hear a IVR voice 'Please hold on, the subscriber you dialed is busy' and the called party will hear three beeps.

By pressing the flash button or the flash hook, the calling party is able to switch between the new incoming call and the current call.

3.4 Call Transfer

When a calling party is in conversation with the called party, call transfer allows one of them to shift the call connection to a third party.

3.4.1 Blind Transfer

Blind transfer is a call transfer in which the transferring party connects the call to a destination extension before ringback begins (the transferring party will not hear any ringback).

Example: A and B are in conversation and B wants to transfer the conversation to C (the extension of C is 8000). Operation instructions are as follows:

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- 1. B dials *18000 (*1 is the feature code for blind transfer, 8000 is the extension of C);
- 2. B hangs up the call;
- 3. After C picks up the phone, A and C go into conversation.

3.4.2 Attended Transfer

Attended transfer is one in which the transferring party either connects the call to a ringing phone (ringback heard) or speaks with the third party before connecting the call to the third party.

Example: A and B are in conversation and B wants to consultatively transfer the conversation to C (the extension of C is 8000). Operation instructions are as follows:

- 1. B dials *28000 (*2 is the feature code for attended transfer, 8000 is the extension of C);
- 2. The extension of C rings;
- 3. If C answers the call, C and B go into conversation;
- 4. If C hangs up the phone, B and A continue to be in conversation;
- 5. If B hangs up the phone and C picks up the phone, C and A go into conversation.

3.4.3 Call Transfer via Pressing Flash-hook

Example: A and B are in conversation and B wants to transfer the call to C via pressing the flash-hook (the extension of C is 8000). Operation instructions are as follows:

- 1. B presses the flash-hook and dials 8000;
- 2. The extension of C rings;
- 3. If C answers the call, B and C go into the conversation while the conversation between B and A is still held on.
- 4. If B presses the flash-hook again and dials 1, conversation is switched back between B and A;
- 5. If B presses the flash-hook again and dials 2, conversation is switched between B and C.

Code	Corresponding Function			
*158	Dial *158 to inquiry LAN IP			
*159	Dial *159 to inquiry WAN IP			
*114	Dial *114 to inquiry phone number			
157	Dial *157*0 to set route mode; dial *157*1 to set bride mode			
150	Dial *150*1 to set IP address as static IP address; dial *150*2 to set IP address as DHCP IP address			
152	Dial *152*192*168*1*10# to set IPv4 address as 192.168.1.10			
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3.5 Description of Feature Codes

156	Dial *152*192*168*1*1# to set IPv4 gateway as 192.168.1.1
153	Dial *153*255*255*0*0*# to set IPv4 netmask as 255.255.0.0
*111	Dial *111 to restart the UC100 device
*51	Dial *51 to enable the call waiting service
*50	Dial *50 to disable the call waiting service
*1	Example: Dial *18000, and you can blind transfer to the extension number 8000
*2	Example: Dial *28000#, and you can attended transfer to the extension number 8000
72	Enable unconditional call forwarding service. Example: Dial *72*8000, and calls will be unconditionally forwarded to extension number 8000
*73	Disable unconditional call forwarding service
90	Enable the call forwarding on busy service. Example: Dial *90*8000, and calls will be forwarded to extension number 8000 when the called number is on busy
*91	Disable the call forwarding on busy service
92	Enable the call forwarding on no reply service. Example: Dial *92*8000, and calls will be forwarded to extension number 8000 when there is no reply from the called number
*93	Disable the call forwarding on no reply service
*78	Enable the 'No Disturbing' service
*79	Disable the 'No Disturbing' service
**	Pick up the ringing extension which is in the same ringgroup. Example: Dial**8000, and you can take the incoming call of extension number 8000

Note: A voice prompt indicating successful configuration will be given after each configuration procedure. Please do not hang up until listening to this voice prompt.

3.6 Send or Receive Fax

3.6.1 Fax Mode Supported

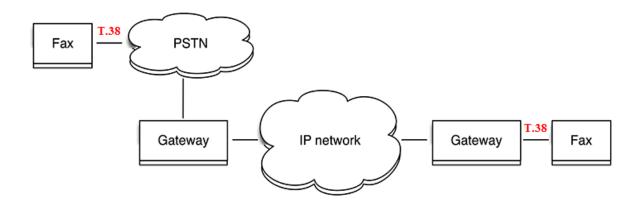
- T.38 (IP-based)
- T.30 (Pass-through)

3.6.2 Explanation of T.38 and Pass-through

T.38: T.38 is used to transfer faxes over IP networks in real time. It could convert the analog fax signal into digital fax signal and could transform it back from T.38 into analog signal. Fax data are transmitted. Under the T.38 mode, fax traffic is carried in T.38 packages.

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Pass-through: Under the pass-through mode, fax signal is not converted and fax traffic is carried in RTP packets. It uses the G.711 A or G711U codec in order to reduce the damage to fax signal.

3.7 Restore Default IP and Password

Press the **RST** button of UC100 for 3 seconds to 6 seconds, the IP address, username and password of the device will be restored to factory defaults.

Press the **RST** button of UC100 for more than 6 seconds, and all configurations of the device will be restored to the default settings.

3.8 Restore Default Setting

If you want to restore UC100 to default settings, you can press the **RST** button of UC100 for more than 6 seconds or you can configure it on the Web interface.

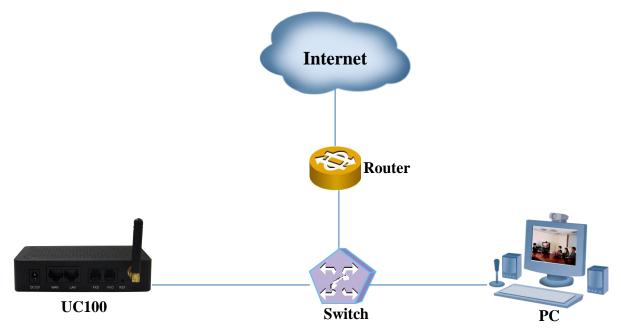
Click System \rightarrow Backup/Restore/Upgrade on the Web of UC100, and select the parts (system, network or network) that need to be restored to defaults, click **Reset**, restart the UC100 device, and the selected parts will be restored to defaults.

Backup/Restore		
Choose backup files and download	System Network Service Service	Download
Reset to defaults	🖉 System 🗆 Network 🗹 Service	Reset
Restore backup	Choose File No file chosen	Restore

4 Configurations on Web Interface

4.1 How to Log in Web Interface

Connect UC100 to the network according to the following network topology, and dial *158 to query the IP address of the UC100 device.



4.1.1 Preparations for Login

Modify the IP address of the PC to make it at the same network segment with the UC100 device, since the default IP address of the UC100 device is 192.168.11.1.

Check the connectivity between the PC and the UC100. Click **Start** \rightarrow **Run** of PC and enter cmd to execute 'ping 192.168.11.1' to check whether the IP address of the UC100 runs normally.

4.1.2 Log in Web Interface

Open a web browser and enter the IP address of the UC100 (the default IP is 192.168.11.1). Then the login GUI will be displayed. Both the default username and password are admin.

It is suggested that you should modify the username and password for security consideration.



Then the following interface will be displayed.

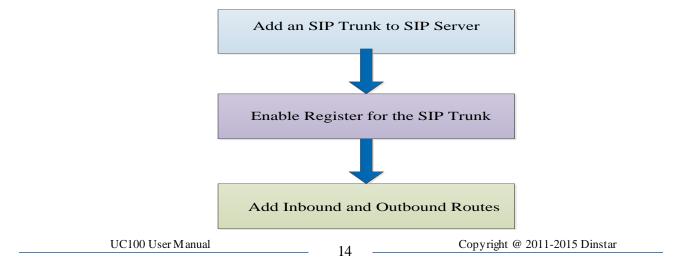
C100 Status		runk Call Control Logout	UNSAVED CHANGES: 12 AUTO REFRESH
1 . 2			3 4 ·
System		Performance	
Device Model	UC100	CPU	9.80 / 100 (9%)
Device SN	0172-0016-5314-3924	Filesystem	6008 kB / 24896 kB (24%) 5
Hardware ID	08A5-5314-3924	Memory	41840 kB / 121548 kB (34%)
Firmware Version	2.53.0.21 2015-05-04 15:47:21 CST +0800		
Local Time	2015-05-08 08:19:07		
Uptime	1 h 45 m 53 s		

Index	Item	Description			
1	UC100	The name of the gateway; it can be edited on the System \rightarrow Setting			
		interface			
2	Menu Bar	The menu bar of UC100			
3	Unsaved Changes	All configurations or modifications should be saved. Click the button, and you can see a log of all changes. Changes won't take effect until they are saved.			
4	Auto Refresh Button	The button can be enabled or disabled. If it is enabled, the information on the Status → Overview/SIP/PSTN/Current Call interfaces will be refreshed automatically			
3	Detailed interface	The detailed configuration interface or display interface			

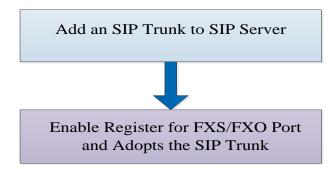
4.2 Configuration Wizard

The following are the common ways to configure the UC100 device.

4.2.1 UC100 regarded as Terminal and Registered to SIP Server



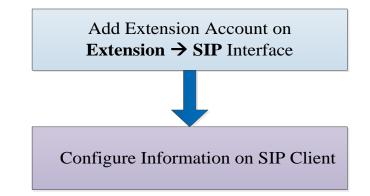
4.2.2 FXS/FXO Port Registered to SIP Server



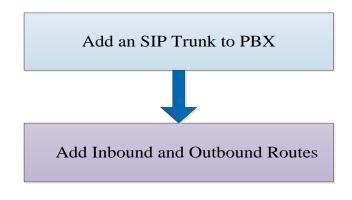
Note: If Register is enabled for FXS/FXO port, calls through FXS/FXO port will take inbound and outbound routes as first priority. For outgoing calls, if outbound route cannot be matched, then the registered SIP trunk will be selected. For incoming calls, if inbound route cannot be matched, then the registered FXS/FXO port will be selected.

4.2.3 Other SIP Clients registered to UC100

Under this mode, UC100 is regarded as an SIP Server. Create an extension account first on the **Extension** \rightarrow SIP interface of UC100, and configure listening port on the **Profile** \rightarrow SIP interface. Then, configure the UC IP address, extension account and listening port on SIP Clients.



4.2.4 UC100 Connected to PBX through Trunking



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4.3 Status

4.3.1 Overview

Log in the Web interface of UC100, click **Status** \rightarrow **Overview**, and the following interface will be displayed. On the interface, information about the system, performance, WAN network, LAN network, WiFi and DHCP server is shown.

uc100	Status	System	Network	Profile	Extension	Trunk	Call Control	Logout	UNSAVED CHANGES: 1 AUTO REFRESH ON
System Device Device Hardwar Firmwar Local Ti	Model SN re ID re Version	08A5- 2.53.0	0016-5324-3 5324-3924	4-24 22:08	:05 CST +08(00	CPU	ormance J system hory	10.78 / 100 (10%) 6268 kB / 24896 kB (25%) 34024 kB / 121548 kB (27%)
Uptime		3 d 17	'h 53 m 41	S					
MAC Ad Type IP Addr Netmas Gatewa DNS RX / TX	ress sk ty	Static 172.10 255.29 172.10 8.8.8. d) 4.26 k	6.99.99 55.0.0 6.1.8 8 172.16.1. KB (66 Pkts GB (152458	8 .) / 289 By	rtes (2 Pkts.) / 177.51 MB (1655269	MAC Typ IP A Netr RX /	ddress nask	F8:A0:3D:53:24:24 Static 192.168.11.1 255.255.255.0 0 Bytes (0 Pkts.) / 0 Bytes (0 Pkts.) 0.00 B (0 Pkts.) / 1.64 MB (15411 Pkts.)
MAC Ao SSID Channe Encrypt RX / TX	l	James 1 WPA2 d) 537 B	D MB (1508	ЛР) s.) / 24 By	tes (0 Pkts.)) / 766.15 MB	(796251	Stat Star End	t Address Address eway ires	Enabled 192.168.11.99 192.168.11.199 12 Hours

4.3.2 SIP

Click **Status** \rightarrow **SIP**, and the following interface will be displayed. On the interface, information of SIP profile, SIP Trunk and SIP extension is shown.

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C100	Status	System	Network	Profile	Extension	Trunk	Call Control	Logout			AUTO REFRESH
Profile											
Index	Nar	ne		Listening	Addr		State	Current	Call Call I	n(F/T)	Call Out(F/T)
1	lan_de	efault	1	92.168.11	.1:5060	RU	JNNING	0	0.	0	0/0
2	wan_d	efault	1	72.16.99.	99:5080	RU	JNNING	0	0.	0	0/0
SIP Tru	nk										
Index	Name	Addre	ess	Transport	t Reg	Hea	rtbeat	Status	Call In(F/T)	Call Out(F/T)	Profile
IP Exte	ension										
Index	Nam	e	Extens	ion	Re	egister Sou	ırce	Status	Expires	Agent	Profile

Belong To	Parameter	Explanation
Profile	Listening Address	The current listening address and port of SIP
	State	Green color means normal running, while red color means listening address and port of SIP is unavailable. There are two states :Running and Down
SIP Trunk	Heartbeat	If heartbeat is enabled, option message will be sent to peer device (the peer device is reachable)
	Status	Green color means available, while red color means abnormal, unavailable or prohibited. There are five statuses: Running, Reged/Up, Noreg/Up, Trying-Down, Fail-Wait
	Profile	The profile that is used by the SIP trunk
SIP Extension	Profile	The profile that is used by the SIP extension
	Status	SIP extension is registered or not. There are two statuses: Registered. Unregistered

4.3.3 PSTN

Click **Status** \rightarrow **PSTN**, and the following interface will be displayed. On the interface, information of FXS port, FXO port and GSM port is shown. Green color means available or registered, while red color means abnormal, unregistered or prohibited.

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FXS					
State	Config Status	SIP Register Status	H	ook State	
READY	OK	Unregistered	(ONHOOK	
FXO					
State	Config Status	SIP Register Status	Hook State	Line	State
READY	OK	Unregistered	ONHOOK	OFF	FLINE
GSM					
State	Channel State	SIP Register Status	Signal Talking State	Call In(F/T)	Call Out(F/T)

Belong to	Parameter	Include
FXS	State	Ready, Unready
	Config Status	OK, Config Failed
	SIP Register Status	Registered, Unregistered
FXO	State	Ready, Unready
	Config Status	OK, Config Failed
	SIP Register Status	Registered, Unregistered
	Hook State	Onhook, Offhook
	Line State	Online, Offline
GSM	State	Ready, Unready
	Channel State	OK, Config Failed
	SIP Register Status	Registered, Unregistered
	Signal	No SIM card has been insertedIsignal Strength

4.3.4 Current Call

Click **Status** \rightarrow **Current Call**, and the following interface will be displayed. On the interface, the source, destination, calling number, called number, start time, answer time, state and duration of the current real-time call are shown. If there is no current call, no information will be shown.

Current (Call								
Index	Src	Dest	Caller	Called	Start Time	Answer Time	State	Duration F	Filter

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Parameter	Explanation
Src	The source of the current call
Dest	The destination of the current call
State	There are three states: Active: it means the caller and the called party is on conversation Ringing: it means the phone of the called party is ringing Early: It means the ring-back tone of the current call is manipulated

4.3.5 CDRs

Click **Status** \rightarrow **CDRs**, and you can set query criteria to query the CDRs that you want on the displayed interface. Meanwhile, you are allowed to clear CDRs or export CDRs through pressing the **Empty** or **Export** button. The maximum number of CDRs that can be saved is 1000.

CDRs	Query P	aram							
Start D	ate	2015	5 🔻	1 •	End Date	e	2015 • 5	• 11	•
Caller					Called				
Source		OFF		•	Destinati	on	OFF		•
Min Du	ration				Max Dur	ation			
					Query Rese	et			
CDRs	List								Empty Export
CDRs Index	List	Source	Called	Destination	Start Time	End Time	Duration Hangup By	Codec	Empty Export
		Source	Called 123456	Destination SIP Trunk/lamon	Start Time 2015-05-11 14:45:07	End Time 05-11 14:45:08	Duration Hangup By D Caller	Codec	
Index	Caller								Hangup Cause Filter
Index 1	Celler 8000	FXS	123456	SIP Trunk/lamon	2015-05-11 14:45:07	05-11 14:45:08	0 Caller	PCMA	Hangup Cause Filter

Hangup causes include normal clearing, no answer, caller cancel, user busy, circuit congestion, exchange routing error, recovery on timer expire, and none.

4.3.6 Service

Click Status \rightarrow Service, and the service status of UC100 is displayed. The function is enabled by default. The Web, SSH and Telnet service can be disabled and their ports can be modified on the System \rightarrow Access Control interface. If no running status is shown, it means exception has occurred on UC100.

Besides, if syslog is disabled on the System \rightarrow Setting interface, the logs cannot be uploaded to the server, but log service is still running.

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Service	
Running Status	
Msg Service	Running
Switch Kernel Service	Running
Log Service	Running
Upgrade Service	Running
Web	Running
SSH	Running
Telnet	Running

4.3.7 About

Click Status → About, copyright, device model, hardware version and firmware version are displayed.

About	
Copyright	
	www.dinstar.com
	Tel: 86-755-26456664/61919966
鼎信通达	Copyright © Dinstar Technologies Co., Ltd. All Rights Reserved.
System	
Device Model	UC100
Device SN	0172-0016-5324-3924
Hardware ID	08A5-5324-3924
Linux Version	3.14.18
Root Image	2.9
Boot Image	1.5
Firmware Version	2.53.0.20 2015-04-24 22:08:05 CST +0800

4.4 System

Configurations for language, time zone, NTP, login password, access control, provision, operation log, service log, upgrade, backup, restore, automatch impedance, IVR upload and device reboot can be carried out in the System section.

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4.4.1 Setting

General		
Hostname	UC100	
Language	Auto	
Timezone	Asia/Shanghai	
Local Time	2015-04-29 16:48:49 Sync with	browser
CDRs	Enable •	
Log		
Service Log Level	Notice 🔹	
Enable Syslog		
Time Synchronization		
Enable builtin NTP server		
NTP server candidates	0.pool.ntp.org	8
	1.pool.ntp.org	8
	2.pool.ntp.org	8
	3.pool.ntp.org	⊗ ⊕
	Cancel Save Reset	

Parameter	Explanation
Host Name	The name of the gateway. After it is configured, the name will be displayed on the left of the menu bar.
Language	Auto: the language of UC100 will be automatically adjusted into the language of the web browser. Auto is the default value.
	English: the language of UC100 is English.
	Chinese: the language of UC100 is Chinese.
Time Zone	You can choose a time zone you want. The default value is UTC (Universal Time
	Coordinated)

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Local Time	The current time based on current time zone. It is synchronized with NTP.
CDRs	If it is enabled, CDRs will be saved automatically. 1000 CDRs call be saved at most and they can be queried on the Status \rightarrow CDRs interface. If it is disabled, CDRs will not be saved.
Service Log Level	There are eight levels, including Debug, Info, Notify, Warning, Error, Critical, Alert and Emergency.
Time	If NTP server is enabled, the UC100 can be synchronized with the world standard
Synchronization	time. Meanwhile, you're able to add or reduce NTP servers. Please consult local telecom operators or surf the internet for the address of NTP servers.
8	Delete a NTP Server
•	Add a NTP Server

4.4.2 User Manager

Click **System** \rightarrow User Manager, and you can modify the username name and password for logging in the UC100 device. Factory defaults for username name and password are both admin, so it is advised that you should modify them for security consideration.

The abovementioned username and password are also used to log in Web Interface, Telnet and SSH.

Password	
Current Username	
Old Password	
New Password	
Confirm New Password	
	Save

4.4.3 Provision

Provision is used to make UC100 automatically upgrade with the latest firmware stored on an http server an ftp server or a tftp server.

Select the checkbox on the right of **Enable**, and you will see the following interface:

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Provision Profile

Enable	✓
Periodic Check	On 🔻
Check Interval(s)	3600
URL	
Username	
Password	•
Proxy Address	
Username	
Password	•
	Cancel Save Reset

Parameter	Explanation
URL	The URL of the http/ftp/tftp server
	for example:
	ftp://172.16.77.200/home
	tftp://172.16.77.200/provision.xml
	http://test.domain.com/test
username	The login username of the http/ftp/tftp server
Password	The login password of the http/ftp/tftp server

Note: Proxy Address, Proxy Username and Proxy Password are optional to be configured.

4.4.4 Operation Log

The logs tracing the operations carried out on the Web can be queried on the **System** \rightarrow **Operation Log** interface. You are allowed to set query criteria to query the logs that you want and to export the logs through clicking the **Export** button at the top-right corner.

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Opera	ation Log					Export
Only late	est 100 records provided to sh	iow, if wan	t to see more, you can export it	I		
Index	Time	Level	Access Source	Operation	Page	Filter
100	2015-04-30 Thu 10:15:11	Info	172.16.188.123:58307	View	system/operationlog	-
99	2015-04-30 Thu 09:41:55	Info	172.16.188.123:58034	Cancel	system/provision	

4.4.5 Service Log

Service logs (the running logs of UC100) can be exported on the System \rightarrow Service Log interface. Those logs are used for analyzing where a problem has occurred on UC100.

Service Log			
Export			

4.4.6 Backup/Restore/Upgrade

On the System → Backup/Restore/Upgrade interface, you can back up or restore configuration data, and can upgrade UC100 to a new version. But you need to restart the device for the change to take effect after executing restore or upgrade.

Backup/Restore		
Choose backup files and download	✓ System ✓ Network ✓ Service	Download
Reset to defaults	🗹 System 🗆 Network 🗹 Service	Reset
Restore backup	Choose File No file chosen	Restore
Upgrade		
Please Select Upgrade Type	System •	
	Choose File No file chosen	Upgrade

Parameter	Explanation
Reset	Click Reset , and all configuration will be restored to factory defaults.
Restore	Choose a backup file, and then click Restore .
Upgrade	Choose an upgrade file (which is provided by Shenzhen Dinstar Technologies), and then click Upgrade .
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4.4.7 Automatch Impedance

Automatch impedance is used to improve the interoperability of the FXO port with other devices.

Automatch FXO Impedance	
DTMF	1234567890123456789 Detection
Automatch Optimum Impedance	
	Cancel Save

How to use automatch impedance:

- 1. Connect a telephone cable to the FXO port;
- 2. Click **Detection**, and the UC100 device will automatically detect the optimum impedance (It takes a period of time to carry out the detection).
- 3. Save the optimum impedance.

Note: You can enter any digits for DTMF number; the default DTMF number 1234567890123456789.

4.4.8 Voice

On the System \rightarrow Voice interface, you can upload an English IVR file or a Chinese IVR file according to your needs. At present, only those IVR files in wav format are allowed.

ease up	load the Er	nglish IVR w	elcome audio !			
ease up	load the Ch	ninece IVP v	velcome audio !			
	nouu ine er	incse ivit v	vercome audio :			
Туре	Name	Format	Language	Description	Upload File	

Note:

- An IVR file has yet to be uploaded in the above figure:
- The format of the wav audio file must be: monaural, 8000hz, 16bit, play time of less than 30s, and size of no more than 1M bytes;

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• If the following yellow bars appear, it means the UC100 device lacks an IVR file and you need to upload one.



4.4.9 Reboot

On the System \rightarrow Reboot interface, you can click **Perform Reboot** to reboot the UC100 device. After the device is rebooted, those configurations that have been saved will remain unchanged.



4.5 Network

UC100 works in two modes: route mode and bridge mode. When it is under the route mode, the IP of WAN must be different from the IP of LAN. But when it is under the bridge mode, the IP of WAN and the IP of LAN are the same.

4.5.1 Setting

Under the route mode, the default IP address of WAN port is a DHCP IP address, while the default IP address of the LAN port is 192.168.11.1.

In fact, there are three kinds of IP addresses for selection for the WAN port, including Static IP address, DHCP IP address and PPPOE IP address.

DHCP: Obtain IP address automatically.

UC100 is regarded as a DHCP client, which sends a broadcast request and looks for a DHCP server to answer. Then the DHCP server automatically assigns an IP address to the UC100 from a defined range of numbers configured for a given network.

WAI	N	
	Protocol	DHCP •
	Obtain DNS server address automatically	
	MTU	1500
LAN		
	IP Address	192.168.11.1
	Netmask	255.255.255.0

Static IP Address:

Static IP address is a semi-permanent IP address and remains associated with a single computer over an extended period of time. This differs from a dynamic IP address, which is assigned ad hoc at the start of each session, normally changing from one session to the next.

If you choose static IP address, you need to fill in the following information:

- IP Address: the IP address of the WAN port of the UC100 ;
- Netmask: the netmask of the router connected the UC100;
- Default Gateway: the IP address of the router connected the UC100;
- Use custom DNS server: the IP address of the DNS server

Protocol Static address IP Address 172.16.99.99 Netmask 255.255.0	
	•
Netmask 255.255.255.0	
	•
Default Gateway 172.16.1.8	
Use custom DNS server 8.8.8.8	
172.16.1.8	
MTU 1500	
LAN	
IP Address 192.168.11.1	
Netmask 255.255.0	•
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PPPoE:

PPPoE is an acronym for point-to-point protocol over Ethernet, which relies on two widely accepted standards: PPP and Ethernet. PPPoE is a specification for connecting the users on an Ethernet to the Internet through a common broadband medium, such as a single DSL line, wireless device or cable modem. PPPOE IP address refers to IP address assigned through the PPPoE mode.

If you choose PPPoE, you need to fill in to fill in the following information:

- Username: the account name of PPPoE
- Password: the password of PPPoE
- Server Name: the name of the server where PPPoE is placed

WAI	N	
	Protocol	PPPOE •
	Username	
	Password	•
	Server Name	
	Obtain DNS server address automatically	
	MTU	1500
LAN	I. Construction of the second s	
	IP Address	192.168.11.1
	Netmask	255.255.255.0

Note: The default IP address of WAN port is a DHCP IP address, but in actual conditions, the IP address of WAN port is more often set as a static IP address.

4.5.2 Access Control

The access ports of Web, Telnet and SSH, as well as relevant on-off controls, can be configured on the Access Control interface. Web supports http and https, while SSH supports OAuth 2.0 protocol.

Web Server	
HTTP Port	80
Allow WAN access	✓
HTTPS Port	443
Allow WAN access	
Telnet	
Enable	
Port	23
Allow WAN access	✓
SSH	
Port	22
Allow WAN access	
	Cancel Save Reset

4.5.3 Firewall

If the UC100 works under the route mode, you can choose to enable the firewall and set filter rules to accept or reject certain destination IP addresses.

Configuration Procedures:

- 1. Select **On** in the drop-down box on the right of **Filter Rules Control**
- 2. Select filter action, accept or reject;
- 3. Click the **New** button.

Firewal	ι				
Filter Rule	s Control		On	×	
Default filt	er action		ACCEPT	T	
Filter	Rules				
Index	Name	Protocol	Source	Destination	Action
2	test	TCP	192.168.11.140/*/*	*/*	Reject 🛛 📝 🛞
3	test2	TCP	192.168.11.156/*/*	*/*	Accept 🛛 📝 🛞
					New
			Save		
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Note:

🗹 : Edit information for the corresponding filter rule.

🔞 : Delete the corresponding filter rule.

/*: Information of Source or Destination is not completely filled in.

4. Fill in relevant information in the following interface.

Filter Rules / New		
Index	1 •	
Name		
Protocol	тср 🔹	
LAN IP		
LAN Port		
LAN MAC	00:00:00:00:00	
WAN IP		
WAN Port		
Action	Accept	
	Cancel Save Reset	
Parameter	Explanation	
LAN IP	The IP address of LAN port that you want UC100 to accept or reject	

1 arameter	Explanation
LAN IP	The IP address of LAN port that you want UC100 to accept or reject
LAN Port	The LAN port which the accepted or rejected IP address belongs to
LAN Mac	The Mac of the LAN port that is accepted or rejected
WAN IP	The IP address of WAN port that you want UC100 to accept or reject
WAN Port	The WAN port which the accepted or rejected IP address belongs to
Action	Choose accept or reject

5. Click the **Save** button.

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4.5.4 DHCP Server Setting

If there is a need, you can choose to enable the built-in DHCP server of UC100 to assign IP addresses to PC or other clients that are in the same local-area network with UC100.

DHCP Server Setting	
DHCP Server	Enabled
Start Address	192.168.11.99
End Address	192.168.11.199
Leasetime(Hour)	12
Gateway	
Master DNS	
Slave DNS	
	Cancel Save Reset

Parameter	Explanation
Start Address	The start IP address to be assigned
End Address	The end IP address to be assigned
Lease Time	Period of validity
Gateway	The IP address of UC100; it is optional to fill in
Master DNS	The master DNS of the client whose IP address is assigned by the built-in DHCP server of UC100; it is optional to fill in
Slave DNS	The master DNS of the client whose IP address is assigned by the built-in DHCP server of UC100; it is optional to fill in

4.5.5 Client List

On the Network \rightarrow Client List interface, information of the client devices whose IP addresses are assigned by the built-in DHCP server of UC100 is displayed.

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Client L	ist			
ID	Client Name	MAC Address	IP Address	Expiration
1	MacBook-Pro	60:03:08:A1:27:BA	192.168.11.177	2015-05-05 21:09:00
2	android-b47c31c0d0322ed2	A0:86:C6:8A:23:79	192.168.11.140	2015-05-05 21:05:37

4.5.6 Port Mapping

IF the UC100 works under the route mode, port mapping allows a client in the wide-area network to visit a client in the local-area network.

Configuration Procedures:

1. Click **Network** \rightarrow **Port Mapping**, and the following interface will be shown.

Port M	apping					
Index	Name	Protocol	WAN Port	LAN IP	LAN Port	
			This section conta	ains no values yet		
						New

2. Click the New button.

3. Fill in information on the following interface.

Port Mapping / New	
Index	1 •
Name	
WAN Port	
Protocol	тср 🔻
LAN IP	
LAN Port	
	Cancel Save Reset

	Parameter	Explanation
	Name	The name of the port mapping
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WAN Port	The WAN port of the client in the wide-area network
Protocol	Choose TCP, UDP or TCP/UDP
LAN IP	The IP address of the LAN port of the to-be-visited client in local-area network
LAN Port	The LAN port of the to-be-visited client in local-area network

4. Click the **Save** button.

4.5.7 DMZ Setting

If the UC100 works under the route mode and the DMZ service is enabled, the clients in the wide-area network are allowed to have direct access to the clients in the DMZ (demilitarized zone).

DMZ service	
DMZ Status	Disabled •
	Cancel Save Reset

4.5.8 Diagnostics

There are three utilities to diagnose the network, including Ping, Traceroute and Nslookup.

Ping is used to examine whether a network works normally through sending test packets and calculating response time.

Instructions for using Ping:

- 1. Enter the IP address or domain name of a network, a website or a device in the input box of Ping, and then click **Ping**.
- 2. If related messages are received, it means the network works normally; otherwise, the network is not connected or is connected faultily.

Traceroute is used to determine a route from one IP address to another.

Instruction for using Traceroute:

- 1. Enter the IP address or domain name of a destination device in the input box of Traceroute, and then click **Traceroute**.
- 2. View the route information from the returned message.

Nslookup (Name Server Lookup) is a network command-line tool to obtain domain name of internet or to

diagnose the problems of DNS.

Instruction for using Nslookup:

- 1. Enter a domain name and then click **Nslookup**.
- 2. View the DNS information from the returned message.

Network Capture

On the following interface, you can capture data packages of the available network ports. You can also set source IP, source port, destination IP or destination port to capture the packages that you want.

Network Utilities	
Ping	Traceroute
Network Capture	
Capture Mode	Custom •
Network Interface	WAN •
Source IP	
Source Port	
Destination IP	
Destination Port	
Protocol	
	Start

4.6 Profile

4.6.1 SIP Profile

On the **Profile** \rightarrow **SIP** interface, you can set SIP information such as listening port, which will be used in FXO/FXS, extension and SIP trunk. Multiple SIP profiles can be configured for one UC100 device, so you can choose different SIP profiles according to different needs.

SIP Profile / Edit

Index	1
Name	lan_default
Local Listening Interface	LAN
Local Listening Port	5060
NAT	Off •
DTMF Type	RFC2833
RFC2833-PT	101
PRACK	Off
Session Timeout	1800
Inbound Codec Negotiation Priority	Remote
Inbound Codec Profile	1-< default >
Outbound Codec Profile	1-< default > ▼
	Cancel Save Reset

Parameter	Explanation
Name	The name of the SIP profile
Local Listening Port	The local listening port of SIP. If the SIP profile is used by a SIP trunk, the port filled in here is the listening port for the SIP trunk.
NAT	Methods for NAT traversal, including uPNP/NAT-PMP, IP Address, Stun, and Host.
DTMF	There are three modes, including SIP Info, INBAND, RFC2833.
RFC2833-PT	RFC2833 payload coding
PRACK	Provisional Response ACKnowledgement
Session Timeout	The validity period of current registration. It is 1800 seconds by default
Inbound Codec	To take the remote device or the local device as priority for inbound codec

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Negotiation Priority	negotiation.
	Assume local device supports PCMA, PCMU, G.729 and G.723, while the
	remote device supports G.723 and G.729.
	If remote device is taken as codec negotiation priority, G.723 will be the codec
	mode, since the remote device supports G.723 and G.729 and G.723 is prior to
	G.729.

4.6.2 FXS/FXO

On the **Profile** \rightarrow **FXS/FXO** interface, you can configure the driving parameters of FXS port and the FXO port.

Profile → **FXS** Interface:

FXS Profile / New		
Index	2 🔻	
Name		
Tone Group	China 🔻	
Digit Timeout(s)	4	
Dial Timeout(s)	10	
Ring Timeout(s)	55	
No Answer Timeout(s)	55	
Flash Detection	0	
DTMF Send Interval(ms)	250	
DTMF Gain	-4dB	
DTMF Duration(ms)	200	
CID Send Mode	FSK V	
Message Mode	MDMF 🔻	
Message Format	Display Name and CID 🔹	
Send CID Before RING	•	
Send CID After Ring(ms)	2000	
Impedance	600 Ohm 🔻	
Polarity Reverse	ON Y	
Dialplan	Off	
	Cancel Save Reset	

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Parameter	Explanation
Name	The name of the FXS profile
Tone Group	The state standard of dialing tone, busyness tone and ring tone; the default value is China
Digit Timeout (s)	The timeout value for dialing a digit of a telephone number
Dial Timeout (s)	The timeout value for dialing the first telephone number after off-hook
Ring Timeout (s)	The timeout value for the ringing of the analog phones of the FXS port when there are incoming calls
No Answer Timeout (s)	The timeout value for ending calls which go out through FXS port
Flash Detection	Whether to execute flash detection; If flash detection is not executed, the press on flash-hook won't be processed.
DTMF Send Interval(ms)	The minimum interval between the sending of two DTMF tone DTMF: Dual Tone Multi Frequency
DTMF Gain	Signal gain of DTMF
DTMF Duration (ms)	The minimum duration of a DTMF tone
CID Send Mode	Include FSK and DTMF; generally it is the default setting FSK: Frequency-shift keying CID: Caller ID
Message Mode	Include SDMF and MDMF; generally it is the default setting
Message Format	Include Display Name and CID, Only display Name, Only display CID
Send CID Before Ring	If it is enabled, the CID will be shown before ring; otherwise, CID will be displayed after ringing
Send CID After Ring(ms)	The interval between ringing and displaying of CID
Impedance	The impedance matched with analog phones; Generally it is the default setting
Polarity Reverse	If polarity reverse is on, call tolls will be calculated based on the changes in voltage. If polarity reverse is off, you need to set the time to delay offhook and call tolls will be calculated starting from the preset time.
Dialplan	The rules for dialing

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Profile → **FXS** Interface:

FXO Profile / New	
Index	2
Name	
Tone Group	China
Digit Timeout(s)	4
Dial Timeout(s)	10
Ring Timeout(s)	55
No Answer Timeout(s)	55
Polarity Reverse	ON T
DTMF Send Interval(ms)	250
DTMF Gain	OdB 🔻
DTMF Duration(ms)	200
Detect Caller ID	ON T
Ring Detection	Detect after ring
Dialplan	Off T
	Cancel Save Reset

Parameter	Explanation
Name	The name of the FXO profile
Tone Group	The state standard of dialing tone, busyness tone and ring tone; the default value is China
Digit Timeout (s)	The timeout value for dialing a digit of a telephone number

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Dial Timeout (s)	The timeout value for dialing the first telephone number after off-hook
Ring Timeout (s)	The timeout value for the ringing of the phones of the FXO port when there are incoming calls
No Answer Timeout (s)	The timeout value for ending calls which go out through FXO port
Polarity Reverse	If polarity reverse is on, call tolls will be calculated based on the changes in voltage. If polarity reverse is off, you need to set the time to delay offhook and call tolls will be calculated starting from the preset time.
DTMF Send Interval(ms)	The minimum interval between the sending of two DTMF tone DTMF: Dual Tone Multi Frequency
DTMF Gain	Signal gain of DTMF
DTMF Duration (ms)	The minimum duration of a DTMF tone
Detect Caller ID	Whether to detect caller ID; default value is 'On'
Ring Detection	Detect caller ID after ringing or detect caller ID before ringing
Dialplan	The rules for dialing

4.6.3 Codec

UC100 supports four codec modes, including G711A, G711u, G729 and G92. You can adjust the priority of these four modes according to you needs.

Codec Profile / New		
Index	2	•
Name		
Codec	G729	• 😣
	G723	• 😣
	PCMU	▼ ⊗
	PCMA	▼ ⊗
	Cancel Save Rese	t

🗹 : Edit codec profile.

(8) : Delete the corresponding codec profile or a codec mode.

4.6.4 Number

On the **Profile** \rightarrow **Number** interface, you can set a prefix for calling numbers or called numbers. When the prefix of a calling number or a called number matches the set prefix, the call will be passed to choose a route.

Click the New button, and you will see the following interface:

Number Profile / New	
Index	1 •
Name	
Caller Number	
Prefix	123
Length	
Called Number	
Prefix	
Length	
	Cancel Save Reset

Parameter	Explanation
Name	The name of the number profile
Prefix of Caller Number	The prefix of the calling number. It supports regular expression.
Prefix of Called Number	The prefix of the called number. It supports regular expression.
Length	The length of the calling number or called number. For example, $: 4 6 7$
	means the calling number or called number must be 4 digits, 6 digits or 7 digits except the prefix.

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4.6.5 Time

On the **Profile > Time** interface, you can set a time period for calls. When the calling time of a call falls into the set time period, the call will be passed to choose a route.

Click the **New** button, and you will see the following interface:

Time Profile / No	ew		
Index		1	
Name			
Date Period			
Date Period		•	
Weekday		🗌 Mon 🗐 Tue 🗐 Wed 🗍 Thu 🗍 Fri 🗐 Sat 🗍 Sun	
Time Period		•	
		Cancel Save Reset	
Parameter	Explanation		
Date Period	Choose a start date and an	Choose a start date and an end date	
Weekday	Choose a weekday	Choose a weekday	
Time Period	Choose start and end time	Choose start and end time	

4.6.6 Manipulation

Number manipulation refers to the change of a called number or a caller number during calling process when the called number or the caller number matches the preset rules. Manipulation Profile / New

Index		1 •
Name		123
Caller		 Image: A start of the start of
Delete Prefix		
Delete Suffix		
Add Prefix		
Add Suffix		
Replace by		
Called		
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Parameter	Explanation
Delete Prefix	The number of digits that are deleted from the left of the caller number or calling number
Delete Suffix	The number of digits that are deleted from the right of the caller number or calling number
Add Prefix	The prefix added to the caller number or the calling number
Add Suffix	The suffix added to the caller number or the calling number
Replace by	The number which replace the caller number or the calling number
	If the checkbox on the right of Caller is selected, it means the caller number
	will be manipulated; if the checkbox on the right of Called is selected, it
	means the called number will be manipulated.

Note: During number manipulation, deletion rules are carried out first, followed by adding rules. If 'Replace by' has been set, deletion rules and adding rules are invalid.

4.6.7 Dialplan

Dialplan is used for the dialing of calls through FXS and FXO ports.

Dialplan Profile / New	
Index	1
Name	
Format	Regex
Dialplan	
	Cancel Save Reset

Regex (Regular Expression) Syntax UC100 User Manual

Emplanation of meque	htty-used metaenaraeters in Regex.
^	Matches the starting position in a string. For example, ^134.
\$	Matches the ending position of a string. For example, 2\$.
	Separates alternate possibilities. For example 2 3 4.
1	Quote the next metacharacter.
[]	Matches a single character that is contained within the bracket. For
	example, [123] matches 1, 2, or 3. [0-9] specifies a range which matches any
	lowercase letter from "0" to "9".
[^]	Matches any one character except those enclosed in []. For example, [^9].
	Matches a single character of any value, except end of line.
?	Indicates there is zero or one of the preceding element. For
	example, colou?r matches both color and colour.
*	Indicates there is zero or more of the preceding element. For
	example, $ab*c$ matches ac, abc, abbc, abbbc, and so on.
+	Indicates there is one or more of the preceding element. For
	example, $ab+c$ matches abc, abbc, abbbc, and so on, but not ac.

Explanation of frequently-used metacharacters in Regex:

Examples:

^0755	Matches the phone numbers with starting digits of 0755.
^0755 ^8899 ^0110	Matches the phone numbers with starting digits of 0755, 8899 or 0110.
^[1][358][0-9]{9}\$	Matches the phone numbers with the first digit as 1, the second digit as 3, 5 or 8, the left nine digits as any of 0 to 9.

Digit Map Syntax

Supported	Digit	0-9
objects	Т	Timer
	DTMF	A digit, a timer, or one of the symbols of A, B, C, D, #, or *.
Range	[]	One or more DTMF symbols enclosed in the [], but only one DTMF symbol can be selected.
Range	0	One or more expressions enclosed the (), but only one can be selected.
Separator		Separated expressions or DTMF symbols.

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Subrange	-	Two digits separated by hyphen (-) which matches any digit between and including the two.
Wildcard	х	Matches any digit of 0 to 9
Modifiers		Matches 0 or more times of the preceding element
Modifiers	?	Matches 0 or 1 times of the preceding element

Examples:

(13 15 18)xxxxxxxx	Matches the phone numbers with stating digits as 13, 15 or 18 and the left	
	nine digits as any of 0 to 9.	

4.7 Extension

4.7.1 SIP Extension

On the **Extension** \rightarrow **SIP** interface, you can configure the SIP accounts registered in the UC100 by SIP clients.

SIP Extension / New			
Index	1 •		
Name			
Extension			
Password		•	
DID			
Register Source	Any		
Call Waiting	Off		
Do Not Disturb	Off		
Call Forward Unconditional	Off		
Call Forward Busy	Off		
Call Forward No Reply	Off •		
SIP Profile	1-< lan_default > ▼		
Status	Enable •		
	Cancel Save Reset		

Parameter	Explanation
Name	The name of the SIP extension

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Extension	The registered SIP account
Password	The password of the extension
DID	Direct Inward Dialing; if the called number is same with DID, the call will be directly forwarded to the extension, rather than choosing a route.
Register Source	If 'Any' is chosen, all SIP clients are allowed to register the SIP account of this extension; if 'Specified' is chosen, only the SIP client with the specified IP address is allowed to register the SIP account of this extension.
SIP Profile	Make reference to Profile \rightarrow SIP
Status	If it is enabled, the SIP account can be registered; Otherwise the SIP account cannot be registered.

4.7.2 FXS

On the Extension \rightarrow FXS interface, you can configure data for extensions of the FXS port. FXS Extension / Edit

Extension	8000
Extension	000
Status	Enable •
DID	
Register to SIP Server	On •
Master Server	Not Config
Slave Server	Not Config
Password	•
Call Waiting	On 🔻
Do Not Disturb	Off
Call Forward Unconditional	Off •
Call Forward No Reply	Off
Input Gain	0 db
Output Gain	0 db
FXS Profile	1-< default >

Parameter	Explanation
Extension	The extension number of FXS port
Status	If it is enabled, the FXS port is available; if it is disable, the FXS port is unavailable
DID	Direct Inward Dialing; if the called number is same with DID, the call will be directly forwarded to the extension, rather than choosing a route.
Register to SIP Server	If it is enabled, the FXS extension account will be registered to the SIP trunk that has been set.
Master Server	The address and port of the master SIP server; make reference to Trunk \rightarrow SIP
Slave Server	The address and port of the slave SIP server; make reference to Trunk \rightarrow SIP The slave server will be in use when it is successfully registered but the master server fails to be registered.
Input Gain	The receiving gain of the FXS port
Output Gain	The sending gain of the FXS port
FXS Profile	Make reference to Profile \rightarrow FXS/FXO

4.7.3 Ring Group

On the **Ring Group** interface, you can group FXS extension and SIP extension(s) together and set strategy for choosing the FXS extension and which SIP extension to ring under a ring group. The ring group function is widely used in call centers.

Ring Group / New	
Index	1 •
Name	
Members Select	FXS Extension •
Strategy	Sequence(Ascending)
Ring Group Number	
DID	
Ring Time(5s~60s)	25
	Cancel Save Reset

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Parameter	Explanation
Name	The name of the ring group
Members Select	Select the FXS extension and an SIP extension or several SIP extensions;
Strategy	The strategies for choosing which SIP extension to ring, including Sequence (Ascending), Sequence (Cyclic Ascending), Simultaneous and Random
Ring Group Number	The called number
DID	Same with Ring Group Number; it is optional to fill in.

Note: If ring group function has been set, the call forwarding function is unavailable.

4.8 Trunk

4.8.1 SIP Trunk

SIP trunk can realize the connection between UC100 and IPPBX or SIP servers.

SIP Trunk / New	
Index	1 •
Name	
IP Address	
Port	
Outbound Proxy	
Port	
Transport	UDP •
Register	OFF •
Heartbeat	OFF •
SIP Profile	1-< lan_default > ▼
Status	Enable
	Cancel Save Reset

Parameter	Explanation
Name	The name of the SIP trunk
IP Address	The IP address or domain name of the peer devices or servers
Port	The SIP listening port of the peer devices or servers; 5060 is the default port
Outbound Proxy	If outbound proxy is used, enter the IP address or domain name of the proxy server
Port	If outbound proxy is used, enter the listening port of the proxy server
Transport	Transport protocol: TCP or UDP
Register	Whether the SIP trunk is registered or not
Heartbeat	If heartbeat in on, heartbeat messages (options) will be sent to examine the connection with servers. The default value is 'Off'.
SIP Profile	The SIP profile of the SIP Trunk; make reference to Profile \rightarrow SIP
Status	If it is enabled, it means the SIP Trunk is available; otherwise, the SIP trunk is unavailable.

Note: If UC100 is regarded as a terminal and registered to SIP server, and you want to register the UC100, you just need to register the corresponding SIP trunk.

4.8.2 FXO Trunk

FXO Trunk interconnects the PSTN with UC100. Calls from the PSTN can come into UC100 and calls can go out from UC100 to search telephone numbers under the PSTN.

Different from the FXO ports of other gateways, the FXO port of UC100 only allows one-time dialing, which means called numbers needs to be dialed directly for calls that go out from the FXO port.

FXO Trunk / Edit

Exte	nsion	8001	
Stati	US	Enable •	
Auto	dial Number		
Regi	ster to SIP Server	On •	
	Master Server	Not Config •	
	Slave Server	Not Config	
	Password		ø
Input	t Gain	0db 🔻	
Outp	out Gain	0db •	
Impe	edance	600 Ohm 🔻	
FXO	Profile	1-< default >	

Parameter	Explanation
Extension	The registered SIP account of the FXO port
Status	If it is enabled, it means the FXO trunk is available; otherwise, the FXO trunk is unavailable
Autodial Number	The autodial number for incoming calls through FXO port
Register to SIP Server	Whether to register the FXO trunk to SIP server
Input Gain	Receiving gain of FXO port
Output Gain	Sending gain of FXO port
FXO Profile	Make reference to Profile \rightarrow FXS/FXO

4.8.3 GSM Trunk

GSM trunk interconnects the GSM wireless network with UC100. Calls from the GSM wireless network can come into UC100 and calls can go out from UC100 to search mobile numbers under the GSM wireless

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network.

GSM Trunk / Edit		
Extension	8002	
Status	Enable •	
Autodial Number		
Register to SIP Server	Off	
SMS Encoding	ucs2 🔻	
SMS Center Number		
PIN Code		
	Cancel Save Reset	
	Calicer Save Reset	

Parameter	Explanation
Extension	The registered SIP account of the GSM port
Status	If it is enabled, it means the GSM trunk is available; otherwise, the GSM trunk is unavailable
Autodial Number	The autodial number for incoming calls through GSM port
Register to SIP Server	Whether to register the GSM trunk to SIP server
SMS Encoding	uc s2 or 7bit
SMS Center Number	The SMS center number of SIM card provider
Pin Code	The Pin code of SIM card

4.9 Call Control

This section is to configure the routes and trunks for incoming and outgoing calls through UC100, as well as IVR, SMS, fax and call-related security.

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4.9.1 Setting

Voice	
Disconnect call when no RTP packet	
Language of Tone	English
Start Port	16384
End Port	32768
Route	
Local extension call	
FAX	
Send Mode	T.30 •
Tone Detection by Local	
SDP Param	
a=X-fax	
a=fax	
a=X-modem	
a=modem	

Parameter	Explanation	
Disconnect call when no	If it is enabled, and no RTP packets are received within the preset time,	
RTP packet	calls will be disconnected	
Language of Tone	English or Chinese; you can upload customized IVR on the System \rightarrow Voice interface.	
RTP Start Port	The start port of RTP packets	
RTP End Port	The end port of RTP packets	
Local extension call	If it is enabled, calls between local extensions do not need routes.	

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Fax Mode	T38 or T30 (Pass-through)
Tone Detection by Local	If it is enabled, UC100 will detect fax tones automatically during a call and the call will be switched into fax mode after a fax tone is detected.
SDP Param 'a=X-fax'	Attribute parameter 'a=X-fax' is carried in SDP
SDP Param 'a=fax'	Attribute parameter 'a=fax' is carried in SDP
SDP Param 'a=X-modem'	Attribute parameter 'a=X-modem' is carried in SDP
SDP Param 'a=modem'	Attribute parameter 'a=modem' is carried in SDP

4.9.2 Route Group

On the **Route Group** interface, you can group FXS extension and trunks (SIP trunk, FXO trunk or GSM trunk) together according to your needs and set strategy for choosing which trunk as the destination route under a route group.

Route Group / New	
Index	1 •
Name	
Members Select	FXS Extension
Strategy	Sequence(Ascending)
	Cancel Save Reset

Parameter	Explanation
Name	The name of the route group
Members Select	Select the FXS extension and a trunk or several trunks
Strategy	The strategies for choosing which trunk as the destination route, including Sequence (Ascending), Sequence (Cyclic Ascending), Simultaneous and Random

4.9.3 Route

On the Route interface, you can configure routes for incoming calls and outgoing calls.

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Route / New

Priority

Name

Condition

Source

Number Profile

Caller Number Prefix

Called Number Prefix

Time Profile

Action

Manipulation		OFF •
Destination		FXS Extension
Destination		FXS Extension •
Failover Action		
Condition		Busy Timeout
Other Condition Code		
Manipulation		OFF •
Destination		FXS Extension
		Cancel Save Reset
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31

off

Any

FXS Extension

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Parameter	Explanation	
Priority	The priority for choosing the route; the higher value, the lower priority	
Name	The name of the route	
Condition	The condition under which the route will be used	
Source	The source of the call; it can be the FXS extension, FXO trunk, GSM trunk, a customized source or any	
Number Profile	The profile of the caller number; please make reference to Profile \rightarrow Number The default value is 'Off' Note: it is incompatible with caller number prefix and called number prefix	
Caller Number Prefix	The prefix of caller number; it supports regular expression	
Called Number Prefix	The prefix of called number; it supports regular expression	
Time Profile	The profile of time during which the route can be used; make reference to Profile \rightarrow Time	
Action	Include manipulating number and send call to destination	
Manipulation	If it is on, the caller number of the route will be manipulated; make reference to Profile → Number Manipulation	
Destination	The destination of the route	
Failover Action	The processing when a call through this route fails	
Condition	If busy or timeout is selected, only the failed calls due to busyness or timeout will be processed. If both are not selected, all failed calls will be processed	
Other Condition Code	The code of other conditions; please separate codes with ','	

4.9.4 Feature Code

1 Inquiry LAN IP *158 Inquiry LAN IP Enat 2 Inquiry WAN IP *159 Inquiry WAN IP Enat 3 Inquiry Phone Number *114 Inquiry Phone Number Enat 4 Network Work Mode *157* Dail *157*0 to set route mode. Dail *157*1 to set bridge mode Enat 5 IP Address Config Mode *150* *150*1#-Static, *150*2#-DHCP Enat 6 Configure IP Address *152* Set IPv4 Address 192.168.1.10 by dial *152*192*168*1*10# Enat 7 Configure Gateway *156* Set IPv4 Address 192.168.1.1 by dial *156*192*168*1*11# Enat 8 Configure Subnet Mask *153* Set IPv4 Netmask 255.255 0.0 by dial *153*255*255*0*0# Enat 9 Restart Device *111 Restart Device Enat 10 Call Waiting Activate *51 Enable call_waiting service Enat 11 Call Waiting Deactivate *50 Disable call_waiting service Enat 12 Blind Transfer *2 Example:*18000#,you can blind transfer to the extension number Enat 13 Attended Transfer *2	
3 Inquiry Phone Number *114 Inquiry Phone Number Enable 4 Network Work Mode *157* Dail *157*0 to set route mode.Dail *157*1 to set bridge mode Enable 5 IP Address Config Mode *150* *150*1#-Static, *150*2#-DHCP Enable 6 Configure IP Address *152* Set IPv4 Address 192.168.1.10 by dial *152*192*168*1*10# Enable 7 Configure Gateway *156* Set IPv4 Gateway 192.168.1.1 by dial *156*192*168*1*1# Enable 8 Configure Subnet Mask *153* Set IPv4 Netmask 255.255.0.0 by dial *153*255*255*0*0# Enable 9 Restart Device *111 Restart Device Enable 10 Call Waiting Activate *51 Enable call_waiting service Enable 11 Call Waiting Deactivate *50 Disable call_waiting service Enable 13 Attended Transfer *1 Example:*18000#,you can attended transfer to the extension number Enable 14 Call Forward Unconditional Activate *72* Enable Unconditional call_forward service.Example:*72*8000,set t Enable 15 Call Forward Unconditional Deactivate *73 Disabl	
4 Network Work Mode *157* Dail *157*0 to set route mode.Dail *157*1 to set bridge mode Enat 5 IP Address Config Mode *150* *150*1#-Static, *150*2#-DHCP Enat 6 Configure IP Address *152* Set IPv4 Address 192.168.1.10 by dial *152*192*168*1*10# Enat 7 Configure Gateway *156* Set IPv4 Gateway 192.168.1.1 by dial *156*192*168*1*1# Enat 8 Configure Subnet Mask *153* Set IPv4 Netmask 255.255.0.0 by dial *153*255*255*0*0# Enat 9 Restart Device *111 Restart Device Enat 10 Call Waiting Activate *51 Enatle call_waiting service Enat 11 Call Waiting Deactivate *50 Disable call_waiting service Enat 12 Blind Transfer *1 Example:*18000#,you can blind transfer to the extension number Enat 13 Attended Transfer *2 Example:*28000#,you can attended transfer to the extension number Enat 14 Call Forward Unconditional Activate *72* Enable Unconditional call_forward service.Example:*72*8000,set t Enat 15 Call Forward Unconditional Deactivate *73	
5 IP Address Config Mode *150* *150*1#-Static, *150*2#-DHCP Enat 6 Configure IP Address *152* Set IPv4 Address 192.168.1.10 by dial *152*192*168*1*10# Enat 7 Configure Gateway *156* Set IPv4 Gateway 192.168.1.1 by dial *156*192*168*1*10# Enat 8 Configure Subnet Mask *153* Set IPv4 Netmask 255.255.0.0 by dial *153*255*255*0*0# Enat 9 Restart Device *111 Restart Device Enat 10 Call Waiting Activate *51 Enable call_waiting service Enat 11 Call Waiting Deactivate *50 Disable call_waiting service Enat 13 Attended Transfer *1 Example:*18000#,you can blind transfer to the extension number Enat 14 Call Forward Unconditional Activate *72* Enable Unconditional call_forward service.Example:*72*8000,set t Enat 15 Call Forward Unconditional Deactivate *73 Disable Unconditional call_forward service Enat	
6 Configure IP Address *152* Set IPv4 Address 192.168.1.10 by dial *152*192*168*1*10# Enat 7 Configure Gateway *156* Set IPv4 Gateway 192.168.1.1 by dial *156*192*168*1*11# Enat 8 Configure Subnet Mask *153* Set IPv4 Netmask 255.255.0.0 by dial *153*255*255*0*0# Enat 9 Restart Device *111 Restart Device Enat 10 Call Waiting Activate *51 Enable call_waiting service Enat 11 Call Waiting Deactivate *50 Disable call_waiting service Enat 12 Blind Transfer *1 Example:*18000#,you can blind transfer to the extension number Enat 13 Attended Transfer *2 Example:*28000#,you can attended transfer to the extension num Enat 14 Call Forward Unconditional Activate *72* Enable Unconditional call_forward service Enat 15 Call Forward Unconditional Deactivate *73 Disable Unconditional call_forward service Enat	
7 Configure Gateway *156* Set IPv4 Gateway 192.168.1.1 by dial *156*192*168*1*1# Enable 8 Configure Subnet Mask *153* Set IPv4 Netmask 255.255.0.0 by dial *153*255*255*0*0# Enable 9 Restart Device *111 Restart Device Enable 10 Call Waiting Activate *51 Enable call_waiting service Enable 11 Call Waiting Deactivate *50 Disable call_waiting service Enable 12 Blind Transfer *1 Example:*18000#,you can blind transfer to the extension number Enable 13 Attended Transfer *2 Example:*28000#,you can attended transfer to the extension num Enable 14 Call Forward Unconditional Activate *72* Enable Unconditional call_forward service.Example:*72*8000,set t Enable 15 Call Forward Unconditional Deactivate *73 Disable Unconditional call_forward service Enable	
8 Configure Subnet Mask *153* Set IPv4 Netmask 255.255.0.0 by dial *153*255*255*0*0# Enat 9 Restart Device *111 Restart Device Enat 10 Call Waiting Activate *51 Enable call_waiting service Enat 11 Call Waiting Deactivate *50 Disable call_waiting service Enat 12 Blind Transfer *1 Example:*18000#,you can blind transfer to the extension number Enat 13 Attended Transfer *2 Example:*28000#,you can attended transfer to the extension num Enat 14 Call Forward Unconditional Activate *72* Enable Unconditional call_forward service.Example:*72*8000,set t Enat 15 Call Forward Unconditional Deactivate *73 Disable Unconditional call_forward service Enat	
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12 Blind Transfer *1 Example:*18000#,you can blind transfer to the extension number Enat 13 Attended Transfer *2 Example:*28000#,you can attended transfer to the extension num Enat 14 Call Forward Unconditional Activate *72* Enable Unconditional call_forward service.Example:*72*8000,set t Enat 15 Call Forward Unconditional Deactivate *73 Disable Unconditional call_forward service Enat	
13 Attended Transfer *2 Example: *28000#, you can attended transfer to the extension num Enalt 14 Call Forward Unconditional Activate *72* Enable Unconditional call_forward service.Example: *72*8000,set t Enable 15 Call Forward Unconditional Deactivate *73 Disable Unconditional call_forward service Enable	
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15 Call Forward Unconditional Deactivate *73 Disable Unconditional call_forward service Enat	ed 🛛 🗹 🚫
-	ed 🛛 🗹 🚫
40 Cell Ferrerel Russ Activity to the total Ferrerel UCED RUSY cell forward control Francesco Russelle 200200 cetter Ferrerel	ed 🛛 🗹 🚫
16 Call Forward Busy Activate *90* Enable USER_BUSY call_forward service.Example:*90*8000,set t Enable	ed 🛛 🗹 🚫
17 Call Forward Busy Deactivate *91 Disable USER_BUSY call_forward service Enable	ed 🛛 🗹 🚫
18 Call Forward No Reply Activate *92* Enable NO_REPLY call_forward service.Example:*92*8000,set th Enable	ed 🛛 🗹 🚫
19 Call Forward No Reply Deactivate *93 Disable NO_REPLY call_forward service Enable	ed 🛛 🗹 🚫
20 Do Not Disturb Activate *78 Enable DND service Enable	ed 🛛 🗹 🚫
21 Do Not Disturb Deactivate *79 Disable DND service Enable	ed 📝 🚫
22 Group Pickup ** Pick up the ringing extension which in the same ringgroup, Examp Enable	ed 📝 🚫

Note: All feature codes are enabled by default.

4.9.5 IVR

On the **IVR** interface, you can carry out specific configurations for the IVR which has been uploaded from the **System** \rightarrow **Voice** interface.

IVR			
Status		Enable	
Timeout		10	
Enable Direct Exte	ension		
Repeat Loops		3	
Menu			
DTMF	Destination	Destination Number	
0 •	FXS Extension / FXS / 8000 V	\oplus	
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Parameter	Explanation
Status	If it is disabled, the VCR cannot be seen in the destination of route.
Timeout	If it is set as '10', it means if no DTMF tone is received during 10 seconds, the IVR will be played repeatedly or the call will be hanged up. The default value is 20 seconds.
Enable Direct Extension	Whether to allow direct dialing of extensions during the playing of IVR
Repeat Loops	If it is set as '3', the call will be hanged up after the IVR has been repeated for three times during timeout.
Menu	It is the menu of quick-dial numbers for extensions or trunks. If it is a quick-dial for trunks, you need to configure the called number. Quick-dial numbers are 0 to 9.

4.9.6 SMS

If an SIM card has been inserted into the GSM port, you can send or receive SMS on the SMS interface.

Message Send					
			Select Port: 1-GSM/1-GSM	1 •	Send
Send List					Empty
Port	Contact	Time	Message	Status	Operation Filter
1-GSM	10086	2015-05-05 02:40:34	cxdh	success	🖂 🔦 😣
Receive List					Empty
Port	Contact	Time	Message	Status	Operation Filter

Send Message

Enter contents into the box on the left, and then input the number of recipient . Click Send in the last. Note: If there are mutilple recipients, use | to separate them, for example, 13151103146|18954405566. UC100 User Manual Copyright @ 2011-2015 Dinstar

Receive Message

All SMS received by UC100 are displayed on the Receive List.

Read Message

Click on the Receive List to read SMS contents.

Reply Message

Click \leq , and then enter SMS contents in the box on the left. Click Send in the last.

Delete Message

Click ^I to delete an SMS.

Note: Group sending of message is not allowed.

→ End