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Chapter 1 BRIEF INTRODUCTION

Explanation

CTMC: Cloud Telephony Management Center CTN: Cloud Telephony Node CooVox: IP PBX Series developed by ZYCOO, including U20, U50, U60 and U100.

CTN is Cloud Telephony Note expanded based on ZYCOO CooVox IP PBX Series, applicable to CTMC management and operation remotely and centrally. For now, the upgrade is available for U20, U50 & U100. U60 will be subsequently supported in next version.

Chapter 2 QUICK START GUIDE

Step 1: Firmware Preparation & Upgrading

Download the latest CTN firmware (CTN_Upgrade_Package.zip) on ZYCOO website: <u>http://www.zycoo.com/files/upload/CTN_Upgrade.Package.zip</u>

Unpack the zip file downloaded:

Model	Firmware File
CooVoxU20	E.g.:ulmage-md5.u20.node.v1.0
CooVoxU50	E.g.:ulmage-md5.u50.node.v1.0
CooVoxU100	E.g.:ulmage-md5.u100.node.v1.0

Use respective firmware to upgrade U20, U50 or U100 to the node mode.

Upgrade

WEB Upgrade OTFTP Upgrade
Restore Default Set:
Please choose file to upload: Choose File uImage-md5.u20.node.v1.0
Upload

Note: After the upgrading, clear browser cache and reboot, IP will be set as 192.168.1.100.

74	-00-				
WE FOCUS,	VE DELIVER	IP PHO	NE SYS	тем	
	Mode:	IP PBX	~		
	Username	IP PBX			
	Password	:	<u> </u>		
	Language	: English	*		
				Login	

Default Username & Password: admin/admin

Note: once the mode is chosen, the option won't appear again, unless it's set to factory default.

Step 3: Network Settings

Please configure IPv4 Settings for quick start here; Detail network settings can be found in Chapter 3.2.

Network

	IPv4 Settin	gs	IPv6	Settings	VL	AN Settings
Ethernet I	Port Setup					
		IP A	ssign:	Static N	/	
		IP Add	fress:	192.168.1.9	4	
		Subne	et Mask:	255.255.255	5.0	
		Gatew	ay:	192.168.1.1		
		Prima	ry DNS:	8.8.8.8		
		Altern	ate DNS:			
Virtual In	terface					
	IP AddressV1:			Subnet	MaskV1:	
	IP AddressV2:			Subnet	MaskV2:	
			Save	Cancel		

To make sure it is connected to the public network, please click Troubleshooting to test as below:

Troubleshooting



Step 4: Local Settings

Make following Local Settings, make sure the connection status is "Connected", then the CTN connects with CTMC successfully.

Local Settings

Local Set	ttings	
	Enable: Server IP: Server Port: Contact: Address: Device Name:	<i>I</i> 17.176.159.157 <u>8505 </u> <u>John </u> <u>Chengdu, China Chengdu </u> <u>Save Cancel </u>
Status:	Connected	

Reference:

Item	Explanation
Enable	Enable CTN
Server IP	CTMC IP
Server	Default 8505, CTMC access port
Contact	Contact of device
Address	Address of device
Device Name	Device name

Note: After connecting with CTMC, the CTN's extensions will be created from CTMC and other operations to CTN will be handled from CTMC as well. Detail information will be introduced in CTMC User Manual.

Chapter 3 DETAIL CONFIGURATION

3.1 Login

After connected the system to local network, run a browser on a local PC. Enter the IP (default IP of WAN is http://192.168.1.100:9999:

WE FOCUS, WE DELIVER		LEPHON	Y NODE
Username			
Password:			
Language	English	~	
		Lo	gin

Enter Username & Password (default admin/admin), then [Login]



- 1) Please use IE (V7.0 or higher), or Firefox browser
- 2) Always make sure the PC is in a same IP segment as the system
- 3) After one minute's idleness, the system will time-out

When login succeeded, you will see the following page:

• Home	Home 🌣					
 Operator 			System Info			
Network Settings	Network					
Cloud Node Settings	Ethernet		IP: 192.	168.1.94	MAC: 68:69:28	E:03:02:19
Report	Storage					
PBX Settings	Disk		Total:	3.0G	Used:	225.5M
	Slot Info					
	1	2	4			
	FXO	FXO	N/A			
			Device Info			
	Model No.:	CooVox-U20	System	Version:	1.0.5	
	Current Time:	05/30/14 17:41			Run Time:10 da	ys, 23 min

- Network: IP & MAC of WAN
- Storage: Disk total space & used space
- Slot Info: Module plugged information
- Device Info: Device model & system version

Resident Buttons:

- Logout: logout the GUI
- Activate Changes: once configure made and saved, click this button to activate

System Menu:

- Home: Device information
- Operator: display extensions & trunks
- Network Settings: configure network settings
- Cloud Node Settings: configure basic CTN & CTMC settings
- Report: record & logs
- PBX Settings: user, time and modules

3.2 Network Settings

3.2.1 Network

Configure IP of WAN, click [Network Settings] -> [Network] -> [IPv4 Settings]:

Network

	IPv4 Settin	gs	IPv6	Settings	VL	AN Settings	
Ethernet Po	rt Setup						
		IP A	ssign:	Static 🗸	•		
		IP Add	fress:	192.168.1.9	4		
		Subne	t Mask:	255.255.255	.0		
		Gatew	ay:	192.168.1.1			
		Prima	ry DNS:	8.8.8.8			
		Altern	ate DNS:				
Virtual Inter	rface						
□IP	AddressV1:			Subnet N	1askV1:		
□IP	AddressV2:			Subnet N	1askV2:		
			Save	Cancel			

Reference:

Item	Explanation
IP Assign	Static, DHCP, or PPPoE
Virtual Interface	Assign virtual interface for WAN

Click [Network Settings] -> [Network] -> [IPv6 Settings]:

Network

	IPv4 Settings	IPv6 Set	ttings	VLAN Settings	5
Ethernet	Port Setup				
		Enable:			
	IF	v6 Address:			
	Pi	refix Length:			
		Gateway:			
	р	rimary DNS:			
	Alt	ernate DNS:			
		Save	Cancel		

Reference:

Item	Explanation
Enable	Enable IPv6, and assign IPv6 address, gateway or DNS server

Click [Network Settings] -> [Network] -> [VLAN Settings]:

Network	Ν	e	t	W	0	r	k
---------	---	---	---	---	---	---	---

	IPv4 Settings	IPv6 Se	ttings	VLAN Settings
VLAN 1				
		Enable:		
		VLAN ID:		
	VLAN	IP Address:		
	S	ubnet Mask:		
VLAN 2				
		Enable:		
		VLAN ID:		
	VLAN	IP Address:		
	S	ubnet Mask:		
		Save	Cancel	

Reference:

Item	Explanation
Enable	Enable VLAN, and assign VLAN address & ID

3.2.2 DHCP Server

Configure DHCP server, click [Network Settings] -> [DHCP Server] :

```
DHCP Server
```

	DHCP Server	DHCP	Client List	Static MAC	
DHCP Ser	ver Settings				
	Enable: Start IP End IP: Subnet Gatewa Primary Lease T TFTP Se	: Mask: y: DNS: ime(min): rver: Save	192.168.1.101 192.168.1.200 255.255.255.0 192.168.1.1 61.139.2.69 1440 Cancel		

Click [Network Settings] -> [DHCP Server] -> [DHCP Client List]:

DHCP Client List:

Mac Address	IP Address	Host Name	Expires in
00:22:33:11:23:32	192.168.1.201		expired
68:69:2E:03:02:29	192.168.1.202		expired
68:69:2E:03:02:19	192.168.1.203		expired
68:69:2E:04:03:90	192.168.1.204		expired
68:69:2E:04:03:2E	192.168.1.205		expired
68:69:2E:04:03:F2	192.168.1.206		expired
68:69:2E:04:03:6F	192.168.1.207		expired
68:69:2E:04:03:12	192.168.1.208		expired
68:69:2E:04:03:93	192.168.1.209		expired
68:69:2E:04:03:22	192.168.1.210		expired
68:69:2E:04:03:46	192.168.1.211		expired
68:69:2E:04:03:10	192.168.1.212		expired
68:69:2E:04:03:53	192.168.1.213		expired
68:69:2E:04:03:75	192.168.1.214		expired
68:69:2E:04:03:15	192.168.1.215		expired

This is for displaying DHCP client details.

Bind node's MAC with IP when DHCP assigning IPs, to ensure the node is assigned the same IP every time.

Click [Network Settings] -> [DHCP Server] -> [Static MAC] -> [New Static MAC]:

	New Static MAC	х
MAC Address: IP Address:	Save Cancel	

3.2.3 Troubleshooting

Troubleshooting section allows you to confirm the status of the network by performing simple diagnostics including, ping to other network devices or Traceroute command to trace network routings, click [Network Settings] -> [Troubleshooting] :

	Ping	Traceroute	
Ping Pa	ckets: <u>4</u>	Run	
PING 192.168.1.1 (192.168.1	.1) 56(84)	bytes of data.	
64 bytes from 192.168.1.1:	icmp seq=1	ttl=64 time=0.357	ms
64 bytes from 192.168.1.1:	icmp_seq=2	ttl=64 time=0.275	ms
64 bytes from 192.168.1.1:	icmp_seq=3	ttl=64 time=0.263	ms
64 bytes from 192.168.1.1:	icmp_seq=4	ttl=64 time=0.269	ms
192.168.1.1 ping statis	tics		
4 packets transmitted, 4 re	ceived, 0%	packet loss, time	3003ms
<pre>rtt min/avg/max/mdev = 0.26</pre>	3/0.291/0.3	57/0.038 ms	

3.3 Node Settings

3.3.1 Local Settings

Make the local settings of CTN to connect with CTMC, click [Node Settings] -> [Local Settings]:

Local Settings

Local Settings	
Enable:	✓
Server IP:	117.176.159.157
Server Port:	8505
Contact:	John
Address:	Chengdu, China
Device Name:	Chengdu Save Cancel

Status: Connected

Please make the sure status is "Connected". After finishing the local settings, CTN will connect with CTMC successfully. And CTN extensions or operations can be managed by CTMC remotely.

Reference:	
Item	Explanation
Enable	Enable CTN
Server IP	CTMC IP Address
Server Port	Default 8505, CTMC access port
Contact	Administrator of device
Address	Address of device
Device Name	Name of device

3.3.2 Reset & Reboot

Reboot or reset to factory default, click 【Cloud Node Settings】 -> 【Reset & Reboot】:

Reset & Reboot



Note: The system will be resumed to factory default once click "Factory defaults", and rebooting the system will terminate all active calls.

3.4 Report

3.4.1 Call Logs

Search call logs of node by caller ID or callee ID, click 【Report】 -> 【Call Logs】:

Call Logs				
Start Date:	Apr 💙 23 🍸 2013 🌱	Field: Caller ID	~	Filter
End Date:	Apr 💙 23 💙 2013 💙		Download	Delete
Call Start	Caller ID	Destination ID Account	Code Duration(sec)	Disposition

CTMC reserves the right to search the call logs of each node by searching node's name.



Call duration in call logs is different from the actual billing time.

3.4.2 System Logs

Display system logs, click 【Report】 -> 【System Logs】. It's able to download or delete.

• Home	Call Logs					
• Operator	Start Date:	Feb 💙 1 💙 2014 🗸	Field: C	aller ID 🗸 🗸		Filter
Basic	End Date:	Mar 🗸 6 🗸 2014 🗸			Download	Delete
Inbound Control	Call Start	Caller ID	Destination ID	Account Code	Duration(sec)	Disposition
Advanced	2014-02-28 14:24:38	18380217610	805		0	NO ANSWER
Network Settings	2014-02-28 14:24:31	806 <806>	315828035910		9	ANSWERED
	2014-02-28 14:24:00	806 <806>	315828035910		0	NO ANSWER
Security	2014-02-28 14:23:10	ReDial 315828035910 <315828035910>	315828035910		0	ANSWERED
Report	2014-02-28 14:22:49	805 <805>	218380217610		14	ANSWERED
	2014-02-28 14:22:57	15828035910	callback		3	ANSWERED
 Register Status 	2014-02-28 14:19:58	Create	Contact	×	19	ANSWERED
 Record List 	2014-02-28 14:20:06	create	contact	^	3	ANSWERED
	2014-02-28 14:19:29	Name:			16	ANSWERED
 Call Logs 	2014-02-28 14:04:46				7	ANSWERED
	2014-02-28 13:45:22	Phone Number:	218380217610		4	ANSWERED
 System Logs 	2014-02-28 13:45:58				0	ANSWERED
System	2014-02-28 13:45:33	C	Canaal		0	ANSWERED
System	2014-02-28 13:44:05	Save	Cancer		6	ANSWERED
	2014-02-28 13:44:43				0	ANSWERED
	2014-02-28 13:44:18				1	ANSWERED
	2014-02-28 13:42:34	000 <0002	conterence		30	ANSWERED
	2014-02-28 13:43:01	805 <805>	812		0	ANSWERED
	2014-02-28 13:42:48	805 <805>	806		1	ANSWERED
	2014-02-28 13:41:34	805 <805>	conference		5	ANSWERED
	2014-02-28 13:42:06	805 <805>	812		0	ANSWERED
	2014-02-28 13:41:50	805 <805>	806		1	ANSWERED
	/11/1-12/28 13//1/16	805 < 8055	900		16	ANSWERED

3.5 PBX Settings

3.5.1 User Management

Check extensions of CTN, Click [PBX Settings] -> [User Management] :

Extensions							
Ex	tension:	Search	Sh	ow All			
Ex	tensions		-			- 11 Loro	~
	Name	Extension	Por	t Proto	col DialPlan	Outbound CID	Options
1	1000	1000	- 24	SIP	DialPlan1	1	View

Note: All the extensions are created or edited from CTMC. The extension numbers will be displayed here only automatically; they are unable to edit or delete actually.

3.5.2 Time Settings

Set the time of system via NTP server or manually. Select NTP, click 【Time Settings】 -> 【NTP】:

Time Settings				
	6	NTP	O Manual Time Set	
	NTP Server: Time Zone:	pool.ntp.org Asia/Chongq	ing	*

Reference:

Item	Explanation
NTP Server	Specify an NTP server, that could be IP or domain, remote or
	local. Default is pool.ntp.org. Please ensure a valid NTP server
Time Zone	Select a time zone in drop-down list

Select manual, click [Manual Time Set] :

Time Settings



Enter each blank, save and activate, or click [Sync] to synchronize with your PC.

3.5.3 Module Settings (only on U50/U100)

When other modules are in service except for FXO/FXS/GSM, some respective settings need to be made.

Click 【PBX Settings】 -> 【Module Settings】:

Module Settings

SLOT 1			
	Module Type:	FXS/FXO/GSM Save Cancel	

Module Type: Select the type of module

- FXS/FXO/GSM Module: default, no need to set
- E1/T1 Module

Module Settings

SLOT 1		
	Module Type: E1/T1 Settings:	E1/T1 💌
	Mode:	Elv
	Signaling:	CPE 🗙
	Framing:	CCS 🗸
	Coding:	HDB3 🗸
	CRC4:	
		Save Cancel

Reference:

Item	Explanation
Mode	E1 or T1 mode
Signaling	Signaling of module
Framing	"D4" or "ESF" on T1 mode, "CAS" or "CCS" on E1 mode
Coding	"AMI" or "B8ZS" on T1 mode, "AMI" or "HDB3" on E1 mode
CRC4	Enable CRC4 verification

ISDN BRI Module

Module Settings

SLOT 1		
	Module Type: BRI Settings:	ISDN BRI
	Type of Port 1:	×
	Type of Port 2:	~
	Type of Port 3:	×
	Type of Port 4:	×
		Save Cancel

Choose NT or TE mode on each port

<End of Manual>