



CTMS (V2)

Cloud Telephony Management System (2nd Edition)

Introduction

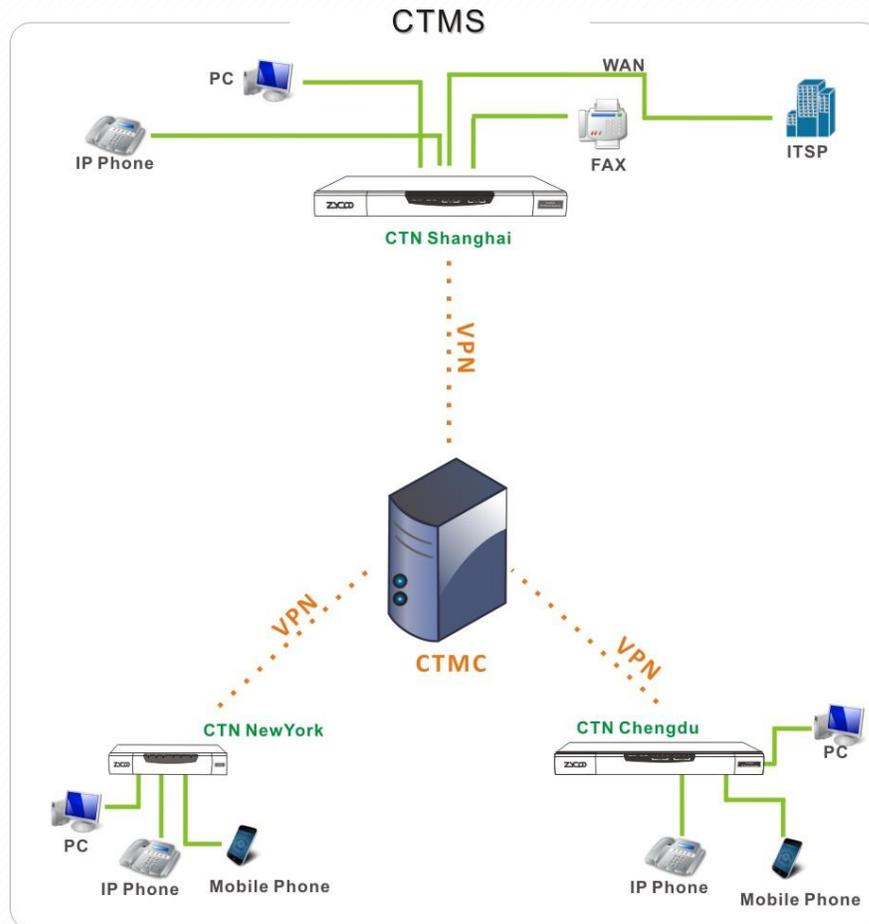
Multi-site enterprises are expecting a unified phone system that can integrate all sites into one unified VoIP phone network to take away the pain of managing separate phone systems of each branch office.

They also want extension to extension calls to different sites are free and in a much easier way.

ZYCOO CTMS is the perfect solution to this request.



What's CTMS?



CTMS (Cloud Telephony Management System) is the cutting-edge multiple location IPPBX integration technology. ZYCOO IPPBXs in different branch offices can be integrated in a single VoIP phone network in spite of their whereabouts. We call this unified VoIP telephony network infrastructure CTMS.

CTMC (Cloud Telephony Management Center) server is going to be deployed in your HQ, by using OpenVPN it integrates up to 30 CTNs (Cloud Telephony Node – ZYCOO CoovoxV2 IPPBX) of your branch offices into a single VoIP network for unified communications.

These CTNs are all centrally configured, managed and maintained by CTMC server within a single Web GUI.

What are needed to build up CTMS?

➤ CTMC server

CTMC is a complete software platform developed by ZYCOO. It is the core of the CTMS infrastructure and is going to be installed on a dedicated server in your HQ.

Right side is the minimal hardware requirement for CTMS testing or demonstration purpose, if for production purpose please consider a high-performance hardware platform.



Minimum hardware requirements

Processor: 1.7 GHz or higher

RAM: 1GB or higher

Hard Disk: 10GB free space or higher

Video Controller: VGA compatible or higher

CD/DVD Drive: CD-ROM/DVD-ROM

Others: Sound card, Network Card, etc.

➤ CTN

CTNs are ZYCOO CooVox-V2 series IPPBXs running with CTN firmware, they share the same basic features as CooVox-V2 series IPPBXs. With CTN firmware the IPPBXs are able to be integrated and managed by the CTMC server.



According to the branch office size, you deploy different models in different branch offices. The CTNs in the branch offices are going to host the local extensions and local trunk lines.

For example, in branch office A, there are:

- ❑ 50 employees
- ❑ 6 PSTN lines

You'll have to deploy a CooVox-U50V2.



➤ SIP Endpoints

Desktop IP Phones



Soft Phones



How much bandwidth required?

Codec	Data Rate	Bandwidth/per call (approximately)
G.711(Alaw)	64.0kbps	100kbps
G.711(Ulaw)	64.0kbps	150kbps
G.729	8.0kbps	50kbps
G.726	32.0kbps	60kbps
G.722	64.0kbps	160kbps
GSM	13.0kbps	60kbps

As all inter-branch phone call traffic goes through the CTMC server, so your HQ requires the most bandwidth.

For example, there are 10 concurrent calls passing through CTMC server, the bandwidth occupied by the phone call voice stream should be (approximately):

- 0.5Mbps (G.729 codec)
- 1.5Mbps (G.711 (Ulaw) codec)

Enjoy the flexibility of making phone calls

✓ Extension to extension calls

Local office and remote office extensions can be dialed directly. With CTMS infrastructure all you colleagues are “under one roof”.

✓ Inter-branch conference calls

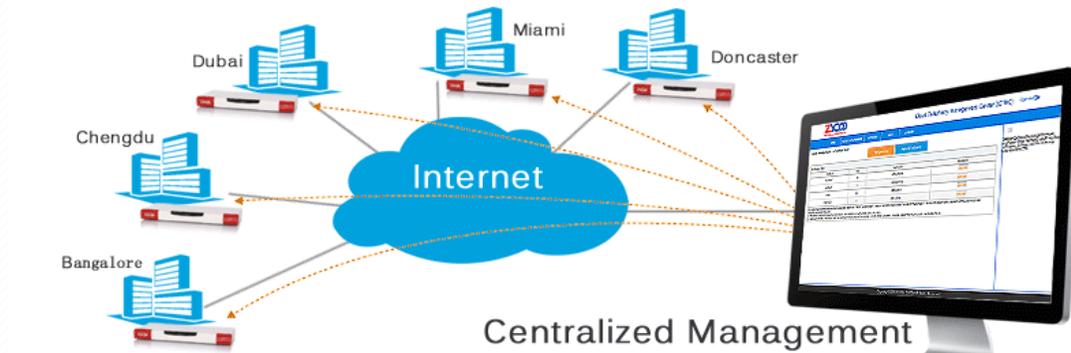
Conference number of one branch office can be dialed by any other extensions from any other branch offices. Means you can have voice conference whenever you like and wherever your colleagues are.

✓ Shared trunk lines

Trunk lines of any branch office can be shared with other branch offices, if someone wants to call a client in your city/country, this call was supposed to be a long distance/international call, but now it's a local city call.



Experience the Simplicity



- ✓ Basic and advanced call features setup
- ✓ Full CTN system administration
- ✓ Real-time CTN availability and status

The whole CTMS infrastructure can be managed by a single Web interface of CTMC server. Once a CTN is connected to CTMC server the rest can be all done from the CTMC Web interface. You don't have to hire IT teams for each branch office to manage your IP phone systems in branch offices.

Also the CTMC system admin doesn't require any expertise for managing the whole CTMS infrastructure. Only some basic knowledge of ZYCOO CooVox V2 IPPBX system would be fine.

CTMS Licensing Policy

Sites (CTNs)	License Cost	License Validate
3	Free	Lifetime
5	Contact Vendor	Lifetime
10		Lifetime
20		Lifetime
30		Lifetime

 ZYCOO.China
 Chengdu, China
 +86(0)28 85337096

 ZYCOO.UK
 Doncaster, UK
 +44(0)1302773162

 ZYCOO.UAE
 Dubai, UAE
 +97 1 43552755



THANK YOU