

XOP Networks™ Voice Mail Server™

Technical Data Sheet

Next Generation Voicemail

Voicemail is a 'must have' revenue generating service for most service providers. As service providers plan the migration of their networks from a legacy circuit switched environment to a packet switched environment, the challenge is, "how do we move our current Voicemail subscriber base? "

XOP Network's Voice Mail Server (VMS) is a carrier grade voice mail system that offers service providers of all sizes the flexibility they need to replace their legacy voicemail systems. With XOP Networks VMS platform, service providers can;

Plan the Migration: Support for both TDM and VoIP/SIP trunks allows operators to plan the migration of voicemail at their own pace.

Maintain End User Behavior: The flexibility to adjust the Voice Command IVR parameters allows the VMS to emulate incumbent voicemail systems thereby minimizing change in end user behavior.

Manage Subscriber Accounts: The ability to 'bulk upload' subscriber accounts makes transition as easy as possible.

Minimize Voicemail Integration Time: The ability to make signaling parameter changes to match the switch end allows quick integration with legacy or the next generation soft switches.

Manage Multiple MWI Options: The ability to provide multiple ways for supporting 'message waiting indication' aids MWI management between legacy, next generation soft-switches, and VMS.

Introduce New Features: In addition to the traditional features of a legacy voice mail system, the XOP Networks' Voice Mail Server offers a range of new features such as; multiple sub-mail boxes per subscriber, voicemail to email forwarding, announcement only mailboxes, etc. These features lead to added customer satisfaction.



Key considerations when deploying a Voice Mail Server System:

Scalable: Deploy between 8 and 480 ports, add more capacity as your needs increase

Reliable: Linux based operating system

Integrable: Integrate with TDM or IP based network

Customizable: Program the voice command IVR menu to mimic the incumbent voicemail system

Manageable: Web based system administration of network resources

Flexible: Deposit message via TDM interface, retrieve it from IP interface and vice-versa

Expandable: Start with voicemail and add unified messaging and other

Useable: Simple and easy to use features allow for maximum productivity and usage

Adaptable: Message waiting indicator via traditional telephone dial out or SMDI or via SIP signaling



Voicemail Features

- Up to 9 sub-mail boxes per subscriber mail box
- Separate customizable greeting for subscriber and sub-mail box owners
- Separate password for subscriber and sub-mail box owners
- Configurable greeting length and maximum message length
- Voicemail to email forwarding as .wav files
- Message pick-up based on CLI match
- Message pick-up based on password match
- Time envelope playback optional
- Intuitive, easy to learn Voice Command IVR front end
- Announcement only mail boxes
- Call out to external numbers for message waiting indication on/off
- SIP based Message Waiting Indication
- Support for multiple languages

Voice Quality

- Toll quality voice
- Echo cancellation
- Automatic gain control
- Tone clamping

System Level Features

- Up to 5000 Voicemail Boxes with 30 minute storage each
- Web portal for administrative functions
- Bulk loading of subscribers and sub-mail box owners
- Real time view of voicemail activity
- Call logs
- Multiple administrator logins
- Secure logins based on HTTPS
- SNMP MIBs for integration with external NMS
- Automated failure reporting
- On demand local and off site backup and restore
- 1+1 hot and standby system configuration
- Web portal customization

Technical Specifications

VMS-xxx Port Configurations

The number of ports can be any mix of TDM and VoIP.

Number of ports: 8 through 480 per chassis.

Protocols

Analog Loop Start

T1 CAS

T1 ISDN

E1 CAS

E1 ISDN

VoIP

DTMF Relay

E&M (Wink Start, Immediate Start)

NI-2, 4ESS, 5ESS, DMS250, INS1500, Q.Sig

Many country specific MFC-R2 variants

NET5, DPNSS, DASS32, QSIG

SIP, H.323

Inband, RFC2833, SIP Info

Interfaces

T1 Telephony Interface

Impedance

Framing

Line Coding

Connector

E1 Telephony Interface

Impedance

Framing

Line Coding

Connector

VoIP Interface

Encoding formats

DSX-1

100 Ohm

SF (D3/D4), ESF For ISDN

AMI, B8ZS

RJ-48C on Front Bracket

CEPT E1

120 Ohm balanced

CCITT G.704 with CRC4

HDB3

RJ-48C on Front Bracket

100BaseT Ethernet, RJ-45

G.711, G.729, G.723

Server Specifications

1U, 2U or 4U standard 19" x 30" rack mountable industrial grade chassis

SATA RAID 1 Mirrored Disks

Power: 110-240 VAC, 47-63 Hz, 600 Watts max

-48 V power supply (optional)

Redundant power supplies (optional)

Weight: 20-40 kg

Operating Requirements

Operating Temperature + 0 deg Celsius to 50 deg Celsius

Storage Temperature -20 deg Celsius to 70 deg Celsius

Humidity 8% to 80% non-condensing

Hardware Warranty: One year included

Software Maintenance: Basic and advanced packages available

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