



Management was never that easy...



Advantages of Managing Conference Networks with MXM Server

- Resource management and configuration of endpoints over entire networks from a single console.
- Compatible with most online directory services (LDAP).
- Control usage of gateway and MCU services by all users.
- Schedule and moderate sessions with web-based Conference Moderator, plus advanced chair control and data sharing.
- Support for Emblaze-VCON endpoints, other-vendor H.323, and SIP endpoints.
- Support for H.460.18 and H.460.19 firewall/NAT traversal standards.
- Translation of IP addresses, H.323 aliases, E.164 numbers, e-mail addresses and URLs.
- Bandwidth allocation to individual users and groups of users.
- Telephony services such as Call Forwarding, Pickup, Transfer, Ad-hoc Conferencing.
- Supports up to 1.000 users .
- Mass upgrading of Emblaze-VCON endpoint software.
- Includes license server
- Firewall/NAT traversal (NetPoint)
- H.460.18/19 support
- Web Point/vPoint software download
- MS Outlook integration



MXM

Award-Winning, Administrative Management System for Exceptional Videoconferencing

The award-winning, administrative management system for videoconferencing, Emblaze-VCON's Media Xchange Manager® (MXM) is the heart of any integrated conferencing and collaboration network. A flexible and versatile management platform, the MXM supports H.323 and SIP conferencing clients, provides gateway functionality for both legacy ISDN and advanced technologies, and offers support for firewall/NAT traversal H.460.18 and H.460.19 standards.

From a single console in the office, home or on the road, it provides the ability to configure, monitor, manage, upgrade and enforce company conferencing policies on any videoconferencing client in an organization. MXM offers a full suite of tools for centrally managing and administrating user groups and bandwidth requirements, as well as QoS prioritization, a billing engine and reporting capabilities. Full video telephony features include: follow-me, forward when busy, no answer, pick-up, easy dialing to systems outside the organization and directory listing. MXM can scale from as few as ten users to thousands of users worldwide. No other management platform provides all the features and functionality included in the MXM, and no other system is as simple and easy to configure, install and use.

Out-of-the-Box Solution for Organizations of Any Size

The MXM combines a full suite of tools into a single, out-of-the-box management environment, providing added value for IT administrators and users in organizations of any size. IT administrators handle and supervise initial deployment, policies and restrictions as well as ongoing support for their organization's rich media conferencing network, while users enjoy advanced yet simple conferencing, with added-value features such as video telephony and ad-hoc point-to-point and multipoint conferencing. Deployment of MXM servers leads to increased productivity and user satisfaction in organizations with networks of hundreds and even thousands of endpoints, dispersed across several locations.

Benefits for IT Administrators

As a complete management system, the MXM simplifies implementation of global and focused administration policies, such as bandwidth allocation and restrictions per user and/or per group, simplified dialing to SIP or ISDN clients, software upgrades, and more. Administrators can apply policy management decisions and even make necessary adjustments to the physical network topology itself, including Emblaze-VCON products, third party H.323, and SIP endpoints. Administrators have complete access to the configuration settings and user preferences for every endpoint and resource on the network. They can configure the endpoints' settings according to policy, whether or not the endpoints are actively logged in. It is also easy to set identical parameter values for many endpoints at the same time. The Remote Software Upgrade utility allows the automated and scheduled upgrade of most Emblaze-VCON's endpoints. The MXM Administrator program is also a real-time monitoring tool for conferencing activity. An optional comprehensive reporting and billing tool provides detailed records, assisting policy-making and internal auditing.

Investment Protection for Video Networks

As your organization's rich media network grows, the MXM can expand with it, providing management and connectivity for thousands of registered users. A change of a license key is all that is required to increase the MXM's user capacity. H.323 and SIP devices can co-exist on mixed SIP/H.323 multipoint videoconferences.



Video Made Easy

Specifications

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Administration Capabilities

- Remote call initiation and hangup
- Remote endpoint configuration
- Open and closed mode registration
- Directory services (LDAP, H.350)
- Mobility
 - Identity and capabilities based on login information allows traveling CoS per user
 - Remote Software Upgrades
- Administration Access
 - Locally installed client
 - Web-based client (partial config)
 - 3 security levels (super user, view, monitor)
- Pre-provisioning and configuration templates
 - Multiple device types
- Number manipulation

Firewall and NAT Traversal

- Supports H.460.18 / .19 firewall/NAT traversal standards

Management Capabilities

- H.323 Gatekeeper
 - RAS
 - Address Translation
- Alert Agent (e-mail message)
- Supports H.239 (video+data streams)
- Supports H.235
- Supports H.460.18/19
- Call handling rate of 100 calls/sec
- H.460.18/19 support
- LDAP authentication, authorization and provisioning
- Dial plans
 - Multizone (area code)
 - Dial by alias, E.164, URL, or e-mail address
 - Secondary/alternate identifiers
- Maximum packet size adjustmet
- Call Details Report (CDR)
- Least cost routing of gateway calls
- Conversation status monitor
- Customizable event log
- Time-out and keep-alive override

PBX Capabilities

- *Ad-hoc conferencing
- *Call transfer
- Call pickup (specific & non-specific)
- Call forward
 - No answer, Busy, Unconditional
 - Call completion (to PSTN or voice mail via gateway)
- Maximum call redirection limits
- ACD hunting groups
 - Forward if no agent available
 - Routing rules: linear, circular, least recently called, simultaneous
- Simplified Gateway dialing
 - 9+ISDN / 9+PSTN dialing
 - Gateway line hunting

Reporting and Billing

- Query tool
- Ability to define new reports
- Report templates
 - Dial plan
 - Gateway & MCU
 - User (Emblaze-VCON and other vendor endpoints)
 - Multicast
 - Remote call initiation
 - CAd-hoc calls
 - ISDN calls
 - System activity
 - Call details (CDR) per user
 - Call frequency
 - Billing with cost factors
 - Gateway downspeeding

*Non-Emblaze-VCON endpoints must support sending DTMF messages in order to initiate this feature

QoS and Policy Services

- Bandwidth limits
 - Per user
 - Within zone
 - Calls to/from non-registered users
 - Between zones
 - Multicast conferences
- Concurrent call limits
 - per device
 - Per user
 - Within zone
 - Calls to/from non-registered users
 - Between zones
- IP Precedence or DiffServ prioritization
- Firewall port range sync (RTF, RTCP, H.245)

Policy Services

- Neighbor zone calling rules
- Gateway dialing rules
- Calls with non-registered users (allow or disallow)
- Class of Service: feature and resource access per user
- E.164 override rules
- MCU permission groups
- Bandwidth groups
- Block registration based on software version

Supported MCUs and Gateways

MCU

- Emblaze-VCON VCB
- Radvision MCU
- Polycom MCU
- Tandberg MCU

Gateways

- Radvision gateway
- Polycom gateway
- Tandberg gateway
- Dilithium gateway

Investment Protection

Scalability

- up to 150 zones per network
- 1,000 users per zone
- Centrally administer multiple zones
- neighbor Gatekeeper
 - Peer-to-peer
 - hierarchical (parent/child)

SIP Support

- SIP to SIP calls
- H.323 to SIP calls
- H.323 and SIP MCU calls

Number of registered users

- Up to 1,000 users, according to license key

Applications managed by MXM

- VCB - multipoint and video streaming
- Conference Moderator - scheduling, conference management

High Availability

- Standby failover
- Windows cluster support
- Software watchdog

EMBLAZE VCON

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