

Media Xchange Manager™

*A management and application server
for rich media deployments.*

Rich media applications

- VCON conference bridge (VCB)
- IPNexus instant messaging
- IPNexus web-based data collaboration
- VCON Conference Moderator: web-based scheduling/moderation

Devices that can be remotely configured

- VCON Escort and Cruiser
- VCON ViGO™
- VCON Falcon
- VCON MediaConnect
- VCON HD100
- VCON vPoint
- Polycom ViewStation
- Polycom 900 Series
- Tandberg group systems
- Sony group systems
- STARBAK Server
- RADVISION MCU
- RADVISION Gateway

Directory services (LDAP)

- Microsoft ILS, SiteServer, Active Directory and Exchange
- Sun iPlanet
- Netscape Directory
- Manual directory entries (incl. ISDN)
- Shared directory between zones

Video telephony capabilities

- Ad-hoc conferencing
- Video call transfer
- Video call forward
- Video call pickup
- ACD hunting groups
- Simplified gateway dialing

The Media Xchange Manager™ (MXM) is at the core of VCON's integrated conferencing and collaboration solution. The architecture of the MXM makes it effectively multiple products layered together in one solution, providing combined value for the network administrator and the end user. The interface layer and the management/administration layer provide the most value for the network administrator who is responsible for the initial deployment and on-going support of the rich-media network. The video telephony layer and integration with rich media applications provide the most benefit to the end-user community that is looking for easy-to-use tools that enhance the effectiveness and efficiency of performing their job.

- Centralized management and administration features for total control and high availability
- Integration with VCON SecureConnect solution for secure videoconferencing
- Advanced rich media applications are seamlessly integrated for the end user
- H.323 and SIP support, including gateway functionality
- Highly scalable from as low as 10 users to as many as 750,000 users distributed across 150 networked zones
- Web-based scheduling and conference moderator option

Application Modules for the End User

The MXM provides unique value to the end user when combined with other VCON rich media conferencing applications. The first is the VCON conference bridge, providing multipoint conferencing and streaming with unique features like ad-hoc conferencing and combined SIP-H.323 conferences. The second is a secure instant messaging and collaboration application called IPNexus. IPNexus takes instant messaging and web-sharing to another level, allowing users to add video to an instant message session. The third application is the VCON Conference Moderator, a comprehensive web-based scheduler and conference moderator. The VCON Conference Moderator can schedule point-to-point calls, as well as multipoint calls, gateway calls and recurring events. All VCON rich media applications are centrally managed by the MXM.

Benefits for the Network Administrator

The MXM has a full suite of tools for centrally managing and administering the rich media network. Many of these tools allow for policy-based decisions by the administrator. The MXM also offers the administrator a real-time monitoring tool as well as a comprehensive reporting and billing tool. These tools can be used for fine-tuning the policy management decisions and for making necessary adjustments to the physical network topology itself. For physical device administration, the MXM administrator has complete access to the configuration settings for every VCON endpoint and resource on the network, right down to the users' preferences. With this access, they can pre-configure the endpoints' settings or change them according to policy changes - even when users' endpoints are not actively logged on. Additionally, the embedded web manager in most non-VCON devices can be directly accessed from the MXM console. The MXM allows for VCON's ViGO, vPoint desktop clients or Falcon settop appliances to be remotely upgraded or re-installed with a new software image. Just imagine the productivity savings and user satisfaction resulting from this in a network with hundreds or thousands of endpoints dispersed across several locations.



*The VCON Media Xchange Manager
allows the network administrator to monitor
and manage all H.323 and SIP endpoints from
a single management console.*

Media Xchange Manager™

Minimum PC Requirements

MXM:

- Pentium III 1.0 Ghz
- Microsoft Windows 2000 Server with SP3 or higher
- 512MB RAM
- 250MB available disk space

MXM Configured with IPNexus and 8-16 port MCU:

- Pentium III 1.4 Ghz
- Microsoft Windows 2000 Server with SP3 or higher
- 512MB RAM
- 300MB available disk space

(if moderate to heavy data collaboration use, a dedicated FTP server is required for IPNexus)

Specifications

PBX Capabilities

- Ah-hoc conferencing¹
- Call transfer¹
- Call pickup (specific and non-specific)
- Call forward
 - Conditions: no answer, busy, unconditional
 - Call completion (to PSTN or voice mail via gateway)
- ACD Hunting groups
 - Forward if no agent available
 - Routing rules: linear, circular, least recently called, simultaneous
- Dial Plans
 - Multizone (area code)
 - Dial by alias, E164, URL or e-mail address
- Simplified gateway dialing
 - 9+ISDN / 9+PSTN dialing
 - Least cost routing
 - Gateway line hunting
 - Gateway downspeeding
- Call Detail Records (CDRs)

Administration Capabilities

- Reporting and billing tool with pre-formatted reports
- Scalability via Zone Management
 - Up to 150 zones per network
 - 5,000 users per zone
 - Centrally administer multiple zones
- Remote call initiation and hangup
- Remote endpoint configuration
- Directory Services (LDAP)
- Directory Gatekeeper
- Mobility
 - Identity and capabilities based on login information
 - Allows traveling CoS per user
- Remote software upgrades/reinstall
 - VCON Falcon
 - VCON vPoint
 - VCON ViGO
- Multicast Content Server

Management Capabilities

- QoS Services:
 - Bandwidth limits
 - Personal
 - Within a zone
 - Between zones
 - IP Precedence or DiffServ prioritization
- Firewall port range sync (RTP, RTCP, H.245)
- Alert Agent (email message)
- Call handling rate of 100 calls/sec
- Maximum packet size adjustment
- H.323 gatekeeper
 - RAS
 - Address Translation
- 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
- Conversation status monitor
- Customizable event log
- High availability
 - Standby server
 - Windows NT cluster support
 - Software watchdog (Win2000)

Scheduling Capabilities

- Point-to-point
- Multipoint
- Gateway calls
- Recurring events
- Redial option

¹Non-VCON endpoints must support sending DTMF messages in order to initiate this feature.

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