

Media Xchange Manager™

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

Rich Media Applications

- VCON Conference Bridge
- IPNexus instant messaging and collaboration
- vPoint software-only client

Devices that can be remotely configured

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

Directory services (LDAP)

- Microsoft ILS and Site Server
- Microsoft Active Directory
- Microsoft Exchange
- Novell NDS
- Sun iPlanet
- Netscape Directory
- Manual directory entries (including 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 client/server architecture. As a rich media server, the MXM combines value for the network administrator and the end user. The architecture of the MXM makes it effectively multiple products layered together in one solution. 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 rich media applications layer 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
- Video telephony functions allow videoconferencing to be as easy to use as the telephone
- Advanced rich media applications are seamlessly integrated for the end user
- Support for both H.323 and SIP devices delivers unmatched investment protection
- Highly scalable from as low as 10 users to as many as 375,000 users distributed across 150 networked zones

Application Modules for the End User

The MXM can be further enhanced via three optional application modules. The first is the VCON Conference Bridge (VCB), which allows up to 8 participants per session. The second is a secure instant messaging and collaboration application called IPNexus. IPNexus provides more than just instant messaging. It also includes IPQuickNote to send "sticky" notes to users, IPAppShare for application sharing, and the ability to transfer files quickly and easily between users. The third module is vPoint, a software-only videoconferencing client that offers business quality at a very low cost. vPoint also includes VCON PacketAssist™ for advanced Quality of Service (QoS) over IP.

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. Once implemented, 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. The MXM allows for VCON's 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 II 400Mhz
- Microsoft Windows 2000 Server with SP2 or higher or
- Microsoft Windows NT Server 4.0 with SP5 or higher
- 256MB RAM
- 250MB available disk space

MXM Configured with IPNexus and VCB:

- Pentium III 1Ghz
 - Microsoft Windows 2000 Server with SP2 or higher or
 - Microsoft Windows NT Server 4.0 with SP5 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
 - 2,500 users per zone
 - Centrally administer multiple zones
- Remote call initiation and hangup
- Remote endpoint configuration
- Directory Services (LDAP)
- Mobility
 - Identity and capabilities based on login information
 - Allows traveling CoS per user
 - User can be located across different zones
- Remote software upgrades/reinstall
 - VCON Falcon
 - VCON vPoint

Management Capabilities

- QoS Services:
 - Bandwidth limits
 - Personal
 - Within a zone
 - Between zones
 - IP Precedence or DiffServ prioritization
- Firewall port range sync
- 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)

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

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