

Mitel EX Controller

For MiVoice Call Control

Key Features

- Robust multi-service platform
- Flexible architecture
- Survivability – service continuity
- FXO, FXS, ISDN BRI, PRI, E&M, and R2 T1/E1
- Embedded KVM virtualized environment
- Easy configuration and management



Multi-Service Business Platform

The Mitel EX Controller delivers a multi-service business controller capable of running MiVoice Business, MiVoice 5000 or MiVoice MX-ONE. It has been developed to continue Mitel's commitment to deliver simplified deployments, to drive efficiency and eliminate exposure to hardware obsolete issues. The Mitel EX controller provides a fairly high capacity IP users and up to 28 analog users as well. The Mitel EX Controller also supports FXO, ISDN BRI and PRI, E&M, and R2 T1/E1 providing access to the local PSTN.

REMOTE USERS

Mitel EX Controller provides communication service access to branch offices, as if they were on the same site as the MiVoice Business / 5000 or MX-ONE and UCC application servers.

SURVIVABILITY

The Mitel EX Controller ensures service continuity by establishing external calls through the local PSTN and by routing internal calls when the primary central site network is temporarily unavailable.

LEGACY AND IP SYSTEMS INTEGRATION

With its flexible configuration of a virtual KVM environment, FXS, FXO, and PRI telephony ports, call-switching, and user-defined call properties (including caller/calling ID), the EX Controller smoothly integrates into Mitel's call controllers.

NETWORK SEPARATION

The EX creates a clear separation between the enterprise's and the operator's networks by hiding the topologies and credentials.

Key Features

CARRIER-GRADE FEATURES

- T.38 and clear channel fax over IP
- High performance processing of up to 250 voice channels

ROBUST SECURITY

- Enterprise communication encryption

EASY CONFIGURATION AND MANAGEMENT

Technical Specifications

MEDIA PROCESSING

- G.711 (A-law and μ -law) and G.729a/b;
- G.168 echo cancellation
- DTMF detection and generation
- Carrier tone detection and generation
- Silence detection/suppression and comfort noise
- Configurable de-jitter buffer and packet length

ENHANCED SECURITY

- SIP over TLS
- SRTP with AES cipher – 128 bits
- SDES key management protocol (RFC 4568)
- TLS-encrypted configuration and management
- X.509 certificate management
- OCSP (Online Certificate Status Protocol) revocation status verification
- Supported TLS key exchange mechanism:
 - RSA
- Supported TLS ciphers (minimum):
 - AES (128 and 256 bits)
 - 3DES (168 bits)

MANAGEMENT

- Web GUI
- SSH
- SNMP v2c, and v3
- Scripts/firmware files uploaded via HTTP, HTTPS, FTP, and TFTP
- Multiple levels of management access rights

- Event notifications via Syslog, SIP, log file, and SNMP traps
- Remote activation of service licenses

QUALITY OF SERVICE (QOS)

- Bandwidth limitation and traffic shaping
- TOS/DiffServ
- IEEE 802.1p/Q

IP TELEPHONY PROTOCOL

- SIP (RFC 3261) over UDP, TCP, and TLS
- RTP (RFC 3550)
- SDP (RFC 4566)
- Multi-part body support
- Redundancy support via DNS SRV
- Multiple trunk support
- IPv4 and IPv6 dual stack signaling and media

NETWORKING

- Dual Stack IPv4 – IPv6
- Multiple IP addresses per link or VLAN
- Multiple VLANs per link
- DHCP Client
- DHCP Server
- PPPoE (RFC 2516)
- IEEE 802.1q + DSCP QoS tagging (media, signaling, and mgmt)
- IEEE 802.1x wired authentication
- LLDP-med (ANSI/TIA-1057)
- QoS traffic shaping
- Static routing

POWER SUPPLY

- Internal 100-240 VAC power supply

PHYSICAL INTERFACES

- 5 x 10/100/1000 BaseT Ethernet RJ-45 connectors
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OPERATING ENVIRONMENT

- Operating temperature: 0°C to 40°C
- Storage temperature: -20°C to 70°C
- Humidity: up to 85%, non-condensing

DIMENSIONS

- *Height: 4.4 cm*
 - *Width (mounting brackets): 48.5 cm*
 - *Depth: 33 cm*
- Weight: Approx. 7Kg*