# Mitel EX Controller

## For MiVoice Call Control

### Key Features

- Robust multi-service platform
- Flexible architecture
- Survivability – service continuity
- Maximum 1400 IP user capacity
- Embedded 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 and to drive efficiency. The Mitel EX controller provides up to a capacity of 1,400 IP users and offers local survivability and PSTN access for analog users. The Mitel EX Controller also supports ISDN PRI, E&M, and R2 T1/E1 providing access to the local PSTN.

### MAIN LOCATION

Mitel EX Controller is a purpose designed appliance that provides IP telephony and gateway functionality in one. Available for multiple Mitel call control platforms - MX-ONE, MiVoice 5000 or MiVoice Business – the EX controller provides full P telephony call control while simultaneously supporting older telephony technology such as FXO, FXS, R2 and ISDN PRI. Scalable up to 8 x PRI or 1400 IP users the EX can be used as the core telephony solution where support for legacy telephony is still of utmost importance.

### REMOTE USERS

Mitel EX Controller provides seamless communication service access to branch offices, as if the users were at the same site as the Mitel solution (MiVoice Business, MiVoice 5000 or MX-ONE) at the headquarters or main location.

### 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 environment, FXS, FXO, and PRI telephony ports, call-switching, and user-defined call properties (including caller/calling ID), the EX Controller smoothly integrates into the family of Mitel 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.



Powering connections

# 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

*As per 3300 controllers this is managed through ESM*

# 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*
- *SMNP 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*
- *2 x TDM sync RJ-45 connectors*
- *2 x USB 2.0 Type-A connector*

## 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*