

Services

- QOS: TOS, DiffServ (RFC 2474)
- Overload control: ETSI GOCAP*
- SLA: Partitioning

Tone & Announcements

- Fixed tones and announcements, stand alone and programmable embedded variables, and IVR
- Support for MGCP and H.248 packages, PacketCable BAU and AAU, H.248.9 (AAS), H.248.7 (Generic Announcement), H.248.8 (Error Code), H.248.11 (Overload Control), H.248.14 (Inactivity Timer) packages
- Music-on-hold: unicast and multicast*
- Audio/video streaming* using RTSP* (RFC2326)

Mixing/Conferencing

- Independent, automatic or manual gain control on each port
- Speaker/talker identification
- Loudest N and preferred speaker
- Audio control: Lecture mode, mute/unmute
- Up to 600 active audio participants
- Sidebar and whisper channels
- Audio mixing with full transcoding and tone clamp support
- Video mixing with full transcoding, rate and size conversion
- Continuous presence
- Fixed, dynamic layout change, per-participant layout*
- Voice activated video switching
- Up to 8 (16*) video participants in a single conference
- Video lecture mode
- Hide/Show
- Video conference recording without external hardware*
- Active speaker highlight

- Customizable foreground/background images
- Support external Video play (.3gp file) in video conference*
- XML-based video layout definition language

Record/Playback

- Audio and video record/playback to .wav, .avi*, quicktime*, .3gp, .3g2*
- Automatic transcoding, rate and size conversion between compressed audio/video recording formats and audio/video codecs
- VCR Control (stop, pause, speed control, etc.)

Speech Recognition

- Host-based engines, MRCP controlled
- Speaker independent and speaker verification*

Speech Synthesis

- Host-based engines, MRCP controlled
- Scansoft RealSpeak 3.0, 4.0

CALEA/Lawful Intercept

- Call content IAP and DF compliant to PacketCable, IP Cablecom, Eurocable, J-STD-025B, T.678, and ETSI HI3*

Audio/video features

- Voice activity detection
- Silence suppression
- Comfort noise generation
- Audio codecs: G.711, G.729A&B, G.723.1a, G.726*, G.728*, G.729E*, GSM FR, GSM HR*, GSM EFR, AMR-NB, EVRC RevA, RevB*, & WB* (previously RevC), AAC LC*, BV16*, and iLBC*
- Fax: T.30, T.38

*denotes future release

- Tone: DTMF, inband and RFC2833 tone detection/generation
- VoIP:RTP/RTCP (RFC 1889)
- Video: H.263 (RFC2190), H.264, MPEG 4 simple profile level 0*, at CIF/QCIF resolution, with line rate 64 kbps to 1.5 Mbps, and up to 30 fps
- Languages: English, Mandarin, Japanese, French, Spanish, German, Russian, Portuguese, Hindi*, Dutch, Swedish, Malay, Tamil, Italian, UK English, Arabic, Korean, Thai, Bengali, Farsi, Vietnamese, Polish, Czech, TDD/TTY

Redundancy

- Redundant backplane, power and fans
- Controller: 1:1 Hot Standby (no call drop)
- Media: N+1 Hot sparing with call re-build
- Interfaces: 1:1 or 1:N, depending on interface
- Hitless Upgrade

Network management

- Interfaces: RS-232, Telnet, FTP, HTTP*, SNMP v2c and v3, command line interface (CLI), Web-enabled GUI*
- SNMP MIB: RFC 1213, RFC 2011, RFC 2012, RFC 2013
- Security:
 - IPSec, SSL*, TLS*
 - SSH-1 and SSH-2
 - IKE, Kerberos*, PKINIT*

Interfaces

- Ethernet: 16 100BaseT, 4 Gigabit*
- IPv4, IPv6*, IPv6 (Mb), UDP, SCTP* and TCP*
- Alarm: LEDs and dry relay contacts

Development Tools

Java-based MCI (Media Control Interface) Library for rapid development of audio & video media -rich applications

Certifications

- Reliability: NEBS level 3
- Emissions: FCC Part 68
- Safety: CSA 22.2 NO. 950 - 95, UL 1950, EN 60950
- EMI: FCC Part 15 Class A, EN55022
- Telecom: GR-63-CORE, GR-1089-CORE, GR-487- CORE, GR-2914-CORE, TR-NWT 000078

Physical dimensions

- 14 RU, 24.5"Hx17.5"Wx18.2"D

Environment

- Power:-48V DC
- Temperature: 0°C to 55°C (operating)
- Humidity: 20% to 80% (non-condensing)

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