

Dialogic® 4000 Media Gateway Series

The Dialogic® 4000 Media Gateway Series (DMG4000 Gateways) is a set of integrated systems designed to connect Microsoft® Office Communications Server 2007 to existing PBX systems and PSTN networks. Based on a standard rack-mount server running the Windows® Server 2003 R2 operating system, the DMG4000 Gateways are basic hybrid media gateways designed for the Office Communications Server 2007 and therefore include the role of Mediation Server, which is Microsoft's technology providing PSTN and PBX interoperability, high-fidelity VoIP, and security.



The DMG4000 Gateways have a familiar user interface, which minimizes Total Cost of Ownership (TCO) by reducing the need for operational and administrative training and special maintenance. In addition, the DMG4000 Gateways keep the number of devices needed to support Office Communications Server 2007 to a minimum by integrating the Mediation Server into a gateway, reducing hardware maintenance.

The DMG4000 Gateways contain field-proven Dialogic® Diva® boards and Dialogic® Diva® SIPcontrol™ Software in addition to Mediation Server software. These elements are integrated in a rugged, compact 1U Intel IP Network Server NSW1U, which features a high-performance 64-bit Dual-Core Intel Xeon processor 5100 series, resulting in a system that can be installed easily in a standard data center rack. The DMG4000 Gateways also offer dual Gigabit Ethernet interfaces for IP network connection, as well as a choice of two or four T1/E1 interfaces to the PSTN or PBX. They can be configured to support up to 120 channels of unified communications traffic between legacy networks and an IP network hosting Office Communications Server 2007.

Features	Benefits
Validated by Microsoft as an interconnect between legacy PBXs or the PSTN and the Office Communications Server 2007	Enables unified communications features for a circuit-switched telephony network
Available as a 1U rack mount integrated system supporting configurations of 48/60 channels (T1/E1) or 96/120 channels (T1/E1)	Offers a range of product densities for businesses of various sizes
Hosts co-located Mediation Server, an element of the Office Communications Server 2007 solution	Reduces the number of servers needed for a unified communications solution and minimizes administrative effort, resulting in lower TCO
Compatible with the equipment of popular PBX manufacturers, including Aastra, Alcatel-Lucent, Avaya, Ericsson, Matra, Nortel, and Siemens	Protects investment in legacy telecommunications equipment and allows a phased migration to IP
Includes redundant power supply, Raid-1 hard disk subsystem, and a failover and load balancing Ethernet network connection	Provides high availability
Supports supplementary services on ETSI-DSS1, QSIG, and other TDM protocols	Brings important supplementary services, such as call transfer, call hold, MWI, and call party information, to an IP environment
Supports T.30 Fax Group 3 up to 33.6 kbps (depending on installed license) using T.38 real-time FoIP	Offers a range of fax configurations to address demands regarding fax channel density and fax transmission speed

Technical Specifications

Ports per unit	Dialogic® DMG4060DTI Media Gateway: 2-port T1/E1 (48/60 channels) Dialogic® DMG4120DTI Media Gateway: 4-port T1/E1 (96/120 channels)
Network interface	2 x 10/100/1000 BaseT Ethernet LAN port with load balancing
Protocol support	E1 ISDN: ETSI-DSS1 (EuroISDN), INS-1500 (Japan), QSIG E1 CAS: MFR2 T1 ISDN: NI-1, 4ESS, 5ESS, DMS100, QSIG T1 CAS: RBS
VoIP call control	Session Initiation Protocol (SIP), RFC 3261 Configurable transport layer for SIP, UDP, and TCP Session Description Protocol (SDP), RFC 2327 NOTIFY (RFC 3265), REFER (RFC 3515), 302 REDIRECT, DIVERSION HEADER Basic call with far-end and near-end disconnect Microsoft® SIP extensions, compatible with both Microsoft® Exchange UM and Microsoft® Office Communications Server 2007
Supplementary services	Numbering services (abstracted as Called Party Number, Calling Party Number/CLIP, and Redirecting Number) Call hold/retrieve Call diversion Unattended, blind transfer Attended transfer with consultation call Message waiting activation/deactivation
FoIP services (depending on installed Fax license)	Default: 12 channel of V.17 fax (14.4 kbps) Optional: Up to 120 channel of V.34 fax (33.6 kbps) T.30 Fax Group 3 up to 33.6 kbps using T.38 real-time FoIP Fax compression MH, MR, MMR Error Correction Mode (ECM) Clear Channel Fax
Tone processing features	DTMF generation and recognition (in-band) DTMF relay, RFC 2833
Media streaming	IP Real-time Transport Protocol (RTP) RTP dynamic payload audio/telephony event RTP profile name RTP/AVP TDM-side fax tone detection via RTP event (RFC 2833) Echo canceller with up to 256 ms echo tail G.711 coder, 64 kbps (64 kbps, A-law, μ -law)
Physical dimensions	Height: 1.70 in. (4.32 cm) Width: 16.93 in. (43.0 cm) Length: 20.0 in. (50.8 cm)
Power supply	90 VAC to 264 VAC 450 W Power Factor Corrected (EN61000-3-2) Two (2) redundant power supplies included
Mediation Server	Globally Routable User Agents URI SIP over mutual TLS SRTP on Communications Server RT Audio on Communications Server Interactive Connectivity Establishment (ICE) support

Approvals, Compliance, and Warranty

Hazardous substances	RoHS compliance information at http://www.dialogic.com/rohs
Country-specific approvals	Global product approvals database at http://www.dialogic.com/declarations
Warranty	Warranty information at http://www.dialogic.com/warranties

Ordering Information

Dialogic® Product	Order Code
DMG4060DTI Media Gateway	306-313
DMG4120DTI Media Gateway	306-314

To learn more about Dialogic® products, visit www.dialogic.com.

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