

Dialogic® DMG2120DTIQ Media Gateway

Now Available in Microsoft Voice Pilot Bundle

Technology Brief

Microsoft is offering the Dialogic® DMG2120DTIQ Media Gateway to its voice partners as part of its voice pilot bundles. The DMG2120DTIQ is a quadspan appliance media gateway, and as of October 2008 is the highest density gateway available in the Dialogic® 2000 Media Gateway Series.

Because of its many features, the DMG2120DTIQ can help Microsoft voice partners win new business with Microsoft® Office Communications Server 2007 voice pilot or lighthouse deployments. Web-based ease of installation and maintenance along with rigorous interoperability testing allows the DMG2120DTIQ to provide an excellent opportunity to jumpstart enterprise customer deployments worldwide in environments where customers wish to enjoy the benefits of Unified Communications while leveraging their investment in legacy PBX/PSTN equipment.

Using an appliance gateway, such as the DMG2120DTIQ, can also eliminate the need for an expensive PBX upgrade. Even with a direct SIP integration, an upgrade is usually involved because the IP-PBX must be running software that is compatible with Microsoft® Office Communications Server 2007. Such software upgrades can be costly both in terms of dollars and time because they require interaction with the PBX provider. The DMG2120DTIQ allows for faster and easier installation because the need to modify the existing PBX and involve the PBX provider is typically unnecessary.

Some of the notable advantages of using the DMG2120DTIQ are expandability, DNIS support, and TDM-to-TDM routing.

Expandability

The DMG2120DTIQ is a quadspan digital trunk T1/E1 gateway, which means that it has four digital trunk interfaces and is equipped to support up to 120 voice channels. A single span T1/E1 trunk provides approximately 24/30 voice channels for access to and from the Office Communications Server 2007 user environment. While a single span is more than sufficient to support the requirements of a 25-user voice pilot deployment, the additional channel capacity of the DMG2120DTIQ allows plenty of headroom for future expansion without gateway hardware upgrades or the purchase of additional gateways. Four spans also provide some added deployment flexibility, as discussed below.

DNIS Support

As a digital PBX-to-IP media gateway, the DMG2120DTIQ supports the delivery and receipt of called party information known as DNIS, which is very important for a high-quality Office Communications Server user experience. Delivered over digital PBX connections to and from the gateway, DNIS identifies the called party by name and number.

Alternatively, if an analog gateway is deployed, the PBX does not send DNIS signaling to it. Although analog FXO gateway routing rules can be configured to mimic the collection of correct DNIS on inbound calls, problems can arise in maintaining simulated DNIS information during transfers, conferences, and other important operations. In addition, outbound calls may or may not have the proper calling party ID when they reach TDM users. Such a problem is not related to the gateway specifically, but is caused by analog PBX interfaces lacking DNIS signaling capability. For this reason, a digital T1/E1 gateway is generally the preferred solution for Office Communications Server deployments and provides a better end user voice experience.

TDM-to-TDM Routing

The DMG2120DTIQ also provides additional TDM-to-TDM routing features and benefits, which can be attractive to enterprise customers or to customers with branch offices. The ability to route calls TDM-to-TDM as well as TDM-to-IP increases the deployment routing flexibility for customers interested in least cost routing and survivability.

In addition, the high density of the DMG2120DTIQ allows it to “sit in front” of the PBX, reducing or eliminating the need to re-configure the PBX. The DMG2120DTIQ dialplan is used to route calls from the PSTN directly to Office Communications Server 2007 endpoints, while routing PBX endpoint traffic through to the PBX trunk interfaces. A minimum of two T1/E1 interfaces are needed for this function. With four T1/E1 interfaces, the DMG2120DTIQ has enough interfaces for streamlined deployment, and even provides room for expansion.

Note: TDM-to-TDM routing features require Version 6.0 or above of Dialogic® firmware. For gateways in the Dialogic® 2000 Media Gateway Series purchased prior to August 2008, Version 6.0 firmware can be downloaded at <http://www.dialogic.com/support/helpweb/mg/downloads.htm>.

For More Information

More information is available online for the Dialogic® 2000 Media Gateway Series, of which the DMG2120DTIQ is a part, and for all the Dialogic® Media Gateway Series.

[Dialogic® 2000 Media Gateway Series](#)

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12/08 11237-03