Implement Virtualization and Fax-over-IP with Biscom and the Dialogic® Media Gateway

Biscom and the Dialogic® Media Gateway (DMG) enable you to easily deploy a distributed fax network using the latest cost and environment-saving technologies:

- Virtualization
- Fax over IP (FoIP)

How are Virtualization and FoIP Implemented?

The T.38-capable fax server is implemented in a virtualization environment through use of the Dialogic Brooktout SR140 software rather than fax boards.

Typically, the SR140 fax server has been described as integrating faxing with a VoIP network: "The SR140 fax server is a software-only IP fax platform, providing companies of all sizes with the capability to integrate fax servers and fax document management solutions with a VoIP network. With no boards to install or maintain, the SR140 reduces complexity and simplifies deployment, delivering Real-time IP Fax over VoIP networks using the T.38 real-time fax-over-IP protocol."
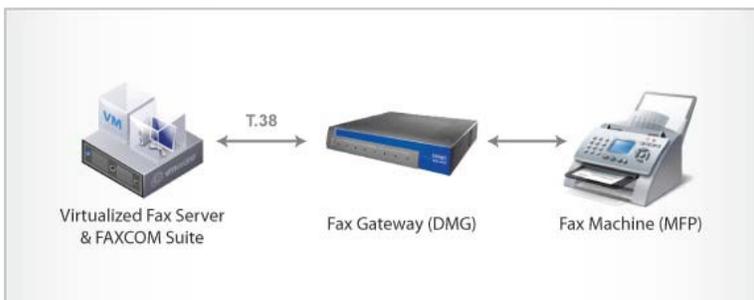

Figure 1. Bridging the Telephone and IP Networks

When the SR140 fax server is combined with a Biscom fax gateway and a DMG, however, FoIP can be implemented without the need for a VoIP network. The merging

BENEFITS:

- Supports software-enabled FoIP and virtualization without requiring a Voice over IP (VoIP)-ready network.

- Provides simplified and centralized management of remote office fax resources.

- Support for Session Initiation Protocol (SIP) and T.38 industry standard protocols.

- Seamlessly merges traditional PSTN technology with IP networks.

of traditional telephony with an IP network is accomplished by the fax gateway itself, which acts as a bidirectional bridge between the telephone networks, and sits between the fax server solution and the destination fax device.

Deploying a DMG together with a Biscom SR140 software-based fax server thus becomes a complete solution for any organization looking to lower fax costs and hardware dependencies through the implementation of Virtualization and FoIP.

What is a Media Gateway?

The Dialogic Media Gateway is an IP device that seamlessly merges traditional Public Switched Telephone Network (PSTN) technology with IP networks. It provides the interface between the SR140 software-based fax server and a broad range of disparate communications systems, including legacy PBX systems. Because the Media Gateway bridges the gap between telephony and IP communications, it does not require a VoIP network to be in place in order to deploy FoIP.
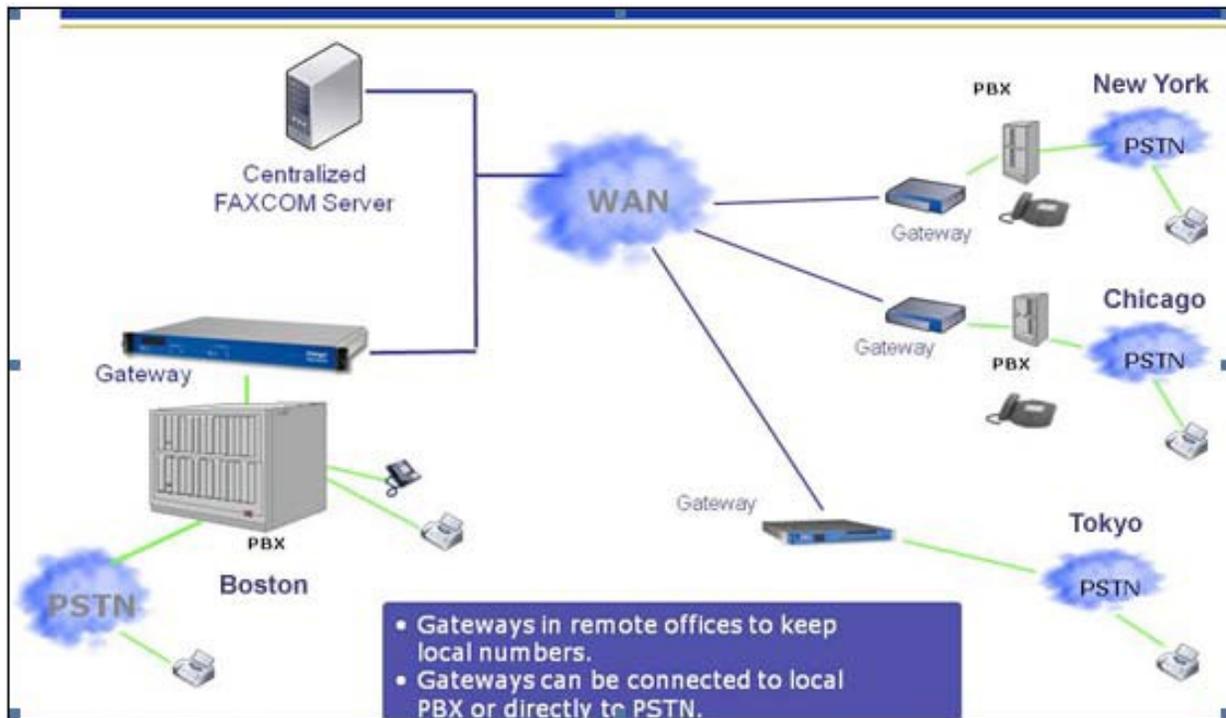
Figure 2. Supporting Remote Office Connectivity

Dialogic's Media Gateways are available in one analog model and two digital models:
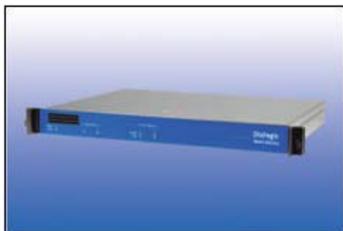
8-Port Analog Fax Gateway

Suitable for small to medium enterprises, the DMG1008 gateway route calls from the switched network to a destination on the IP network. Conversely, it routes calls from the IP network through a switch port to a destination telephone number on the switched network – meaning you can maintain your local Direct Inward Dial (DID) numbers for routing incoming faxes.

One T1 Fax Gateway (24 ports) and Four T1 Fax Gateway (96 ports)

Suitable for enterprises supporting remote office connectivity – as shown in Figure 2 – these rack mount gateways support TDM*-to-SIP, SIP-to-TDM, TCP-to–UDIP, meaning they solve the problem of dealing with different versions of SIP during the call routing process.

* PRI/T1

Media Gateway Interoperability

Biscom and the DMG are designed and tested for PBX interoperability with the installed base of enterprise communications systems. To determine interoperability for a specific PBX vendor/model, contact Biscom for a PBX interoperability matrix.

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