Dialogic® Brooktrout® FoIP Technology for Cisco VoIP Networks

Dialogic enables enterprises to leverage their existing Cisco equipment to deploy a proven, Cisco-certified Fax over IP (FoIP) solution. By implementing fax servers in their IP networks, customers can:

- **Comply effectively with business requirements** (such as Sarbanes-Oxley, HIPAA, Basel II, and others), providing electronic document storage and management, automated document delivery, receipt confirmation, and security

- **Reduce maintenance and management costs** by enabling a single converged voice, fax, and data network; seamless integration with Cisco Call Manager, gateways, and gatekeepers; and seamless integration with leading Multi Functional Peripherals or MFPs (specific MFP interoperability varies by fax application)

- **Reduce operating costs** by
  — Eliminating analog fax lines and integrating MFPs to deliver easy access to fax services
  — Lowering long-distance fax bills with least-cost-routing over a WAN
  — Allowing high economy of scale by leveraging VoIP gateways to utilize centralized fax servers on the network edge

- **Increase efficiency with smarter process flows** for processes that create, receive, route, review, and approve documents

- **Lower labor costs** by automating manually intensive tasks such as generating invoices, purchase orders, loan applications, and order confirmations.

Dialogic® Brooktrout® FoIP Integrates Easily with Cisco Equipment

A Dialogic Brooktrout based fax server may be integrated into a Cisco-based network in many ways. For example, enterprises may deploy a fax server using SIP, H.323, or MGCP. They may choose to centralize all fax routing information within an IP-PBX, utilize gatekeepers, or simply include this routing information within the fax server and gateways in smaller deployments.
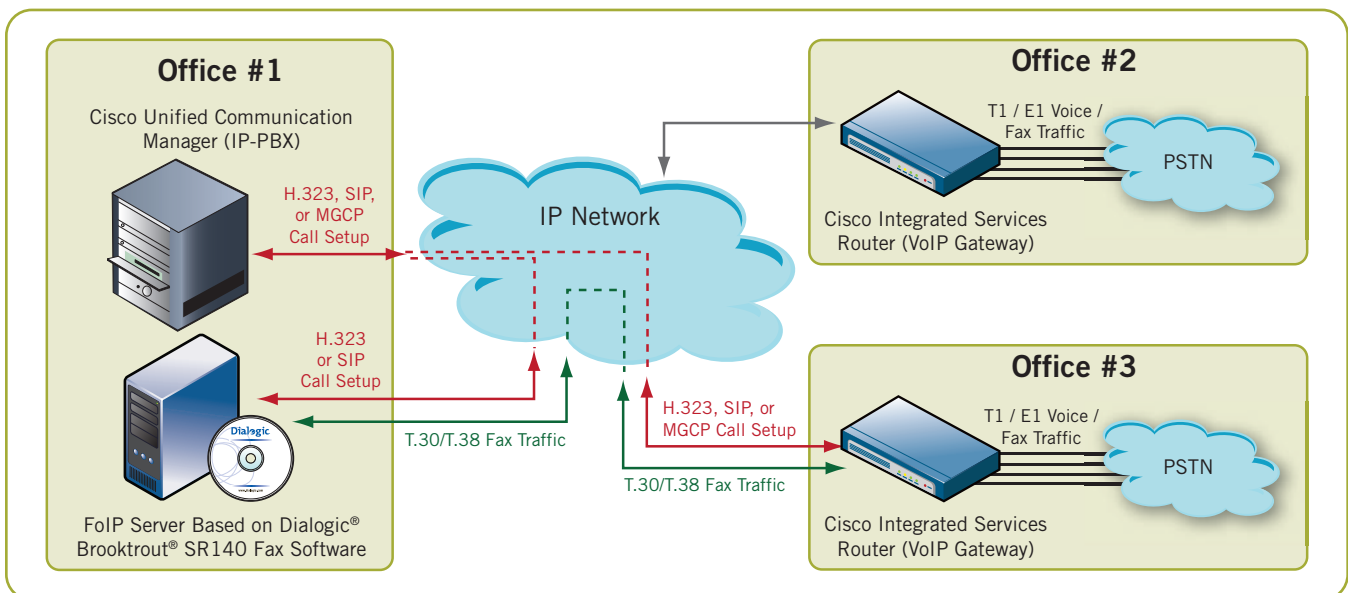

Figure 1. Dialogic® Brooktrout® FoIP Technology in a Cisco System

Figure 1 provides a high-level diagram of one way to integrate Dialogic® Brooktrout® fax technology into a Cisco-based network. A fax server based on the Brooktrout SR140 is connected to the IP network and receives fax calls through the Cisco Unified Communication Manager (IP-PBX). The fax server processes a fax and transmits data using the T.30

protocol within T.38 packets over the IP network to a Cisco Integrated Services Router (VoIP gateway). The gateway repackages the fax data into T.30 protocol signals for transmission over the PSTN. In this way, a real-time protocol exchange occurs between the two fax endpoints over the network: the Brooktrout SR140 based fax server and the receiving fax machine. The VoIP gateway enables such an exchange across two different environments (IP and TDM).

Dialogic: An Industry Leader in Fax Technology

Dialogic offers intelligent fax technology that supports corporate networks in various stages of transition, ranging from purely TDM, to hybrid, to pure VoIP networks. Dialogic is a market leader in fax platforms, offering a robust feature set and a broad range of fax and FoIP platforms in both hardware and software configurations.

Dialogic® Brooktrout® TR1034 Fax Boards

The Dialogic® Brooktrout® TR1034 Fax Boards are high-performance, intelligent boards that offer both TDM- and IP-based fax capabilities, enabling easy migration from traditional fax to IP fax. Because they use Dialogic's field-proven T.30 protocol implementation, which has been adjusted for compatibility with industry variants, Brooktrout TR1034 fax boards can deliver superior call completion at very fast connection rates across a wide variety of fax machines and line conditions. This high level of performance helps ensure that faxes are sent and received the first time, every time, which saves time and reduces fax-related costs.

Dialogic® Brooktrout® SR140 Fax Software

Dialogic® Brooktrout® SR140 Fax Software provides Fax over IP (FoIP) capabilities for integrating fax servers and fax document management solutions with VoIP networks. Brooktrout SR140 can achieve the same high level of performance, reliability, and scalability as Dialogic® Brooktrout® Fax Boards, since both use Dialogic's outstanding implementation of the T.30 protocol. The Brooktrout SR140 is available in densities ranging from 2 to 60 channels and can support up to 120 ports in a single server. More channels can be added cumulatively by purchasing and installing new software license keys.

Interoperability with Cisco Products

The Brooktrout TR1034 and Brooktrout SR140 have been tested for interoperability with the Cisco products listed below.

- Cisco Unified Communication Manager (Cisco Unified CallManager)
- Cisco Integrated Services Router
- Cisco AS Universal Gateway Series
- Cisco High Performance Gatekeeper Series

More Information

Together with its ecosystem partners, Dialogic offers IP fax server solutions in both hardware and software configurations to meet the needs of businesses of different sizes. For a list of Dialogic partners and more details about Dialogic Brooktrout fax technology, visit www.dialogic.com.

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