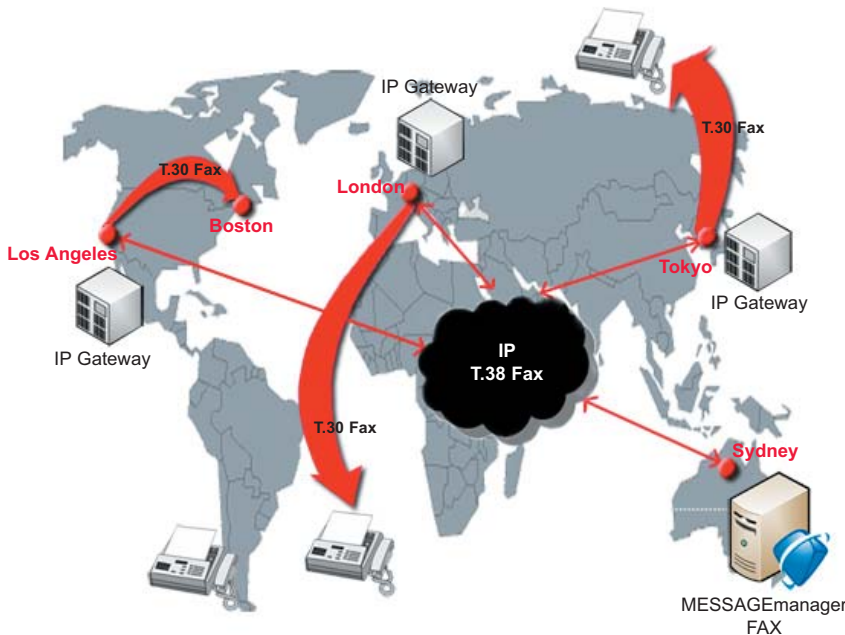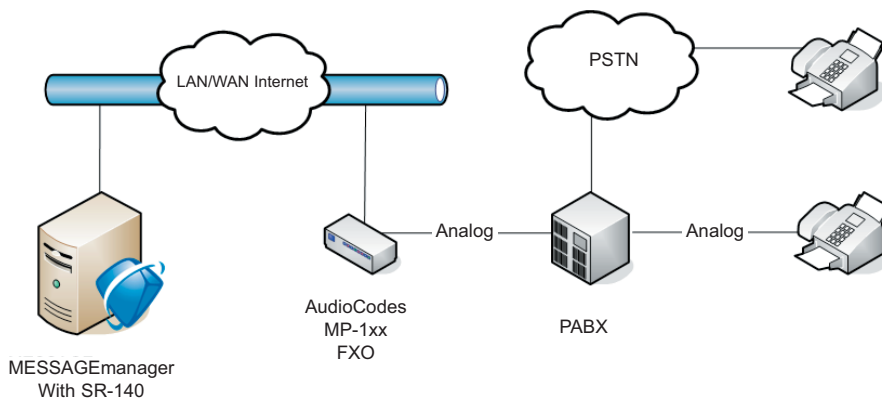# MESSAGEmanager
IP FAX

MESSAGEmanager supports IP FAX with either Cantata Technology Brooktrout TR1034 digital fax boards or SR140 Host-Based Fax Software.

MESSAGEmanager IP FAX is the ideal fit for those organisations with a high speed VoIP network. With a VoIP network, organisations save money by routing messages over the network and into the PSTN via the nearest T.38 Fax gateway. IP FAX also provides local fax presence without the expense of fax hardware in each locale.

MESSAGEmanager FAX server located in Sydney and compatible T.38 gateways provide support for fax services located anywhere in the world.

Fax messages sent from Tokyo destined for Boston are automatically routed over IP to the Los Angeles Gateway and delivered to the fax address in Boston via the PSTN.

MESSAGEmanager Solutions provide Audiocodes T.38 Fax gateways compatible with MESSAGEmanager

Delay

A network whose packet loss and delay characteristics that can properly support Voice over IP should prove sufficient for support of real-time IP FAX. IP FAX gateways only run as fast as the slowest PSTN connection.

In a real-time IP FAX endpoint implementation, such as a fax server with Cantata intelligent fax technology, packetization delay is minimized. This helps minimize missed fax signals during the critical negotiation phases of the Group 3 fax protocol, where timeouts will occur every three seconds. By contrast, gateway implementations that simply pass through fax signals may not sufficiently account for packet delays, which can result in dropped calls.

Interoperability

MESSAGEmanager Solutions' initial focus is ensuring interoperability with the leading T.38 gateway vendors. MESSAGEmanager Cantata Technology Brooktrout T.38 drivers have been tested with Cisco 3700 and 2600 series Router with IOS 12.3 and AS5400 Series Universal Gateway with IOS 12.3 and Audiocodes MediaPack Gateways.

Security

Neither the T.30 nor T.38 protocols allow for the processing of data or the transmission of data. Both protocols only allow for the transfer of T.4 and T.6 fax images. For example, if a malicious packet was sent over IP to Cantata Technology Brooktrout T.38 Fax drivers, the processing will immediately recognize the non-T.38 packet and drop it. If it is not a valid T.30 or T.38 packet, there is no communication path to the network.

In addition, security from network attacks is not directly a T.38 issue, but more of a gateway issue for setting up the call control and the media channels. Cantata real-time IP FAX is designed to work behind firewalls and not go through them, with the expectation being that the gateway to the PSTN is on the LAN and not on the public network.

SR140 HOST-BASED FAX SOFTWARE

SR140 is a software-based intelligent fax technology from Cantata that offers small, medium and enterprise customers, real-time IP FAX capability with the same level of high performance fax capability and reliability expected from a Cantata intelligent fax board.

With no boards to install or maintain, SR140 reduces complexity, simplifies deployment and lowers maintenance costs.

SR140 has the same renowned functionality that has made Cantata the leading provider of intelligent fax boards, including the industry leading T.30 protocol, Error Correction Mode, MMR fax compression plus real-time IP FAX.

For low or medium density fax solutions, SR140 is available in 2, 4, 8 or 12 channels. For higher density solutions, SR140 is available in 24, 30, 48 and 60 channels. As requirements grow additional channels can be easily added via a software license upgrade.

IP FAX AND CANTATA TECHNOLOGY BROOKTROUT TR1034 INTELLIGENT FAX BOARDS

The TR1034 provides the best and most reliable fax solution on the market today. With both an onboard T1/E1 interface for PSTN-based faxing and an Ethernet interface for IP-based faxing via the T.38 protocol using SIP or H.323 call control the TR1034 provides the best of both worlds enabling you to run a PSTN fax solution today and migrate to IP as your requirements change.

As a result of more than 10 years experience developing and supporting intelligent fax boards that are deployed in a wide variety of enterprise and service provider environments, Cantata is recognised as having the best T.30 protocol implementations available on the market today for both PSTN and IP FAX. IP FAX is available with all E1/PRI boards.

FAX
- ITU T.38 (endpoint)
- ITU T.30 Group 3 up to 14,400 Baud
- V.17, V.29, V.27ter, V.21 & V.33 modulation with auto fallback
- Onboard MH, MR, MMR compression
- Onboard image and ASCII conversion (w/headers)
- A4, A3 and B4 page sizes with scaling
- Error correction mode (ECM)
- Resolution 100x100, 200x200, 300x300, 400x400, 600x600, 800x400, 400x800, 600x1200, 1200x1200
- Aligned/unaligned
- MSB/LSB
- Line error detection/correction
- Font download

SIGNALING
- SIP(RFC 3261)
- H.323 (version 4)

OPERATING SYSTEM SUPPORT
- Windows 2000 server
- Windows XPpro
- Windows 2000 pro
- Windows 2003

SYSTEM DENSITY
SR140 will support from 2 to 120 ports in a single server depending on the processing requirements.

MINIMUM SYSTEM REQUIREMENTS
- Pentium 4/2.66 GHz
- 512 MB PC2100 DDR SDRAM memory
- Native Ethernet connection