



T.38 IP Fax

T.38 is the ITU standard for Real-Time Group 3 Facsimile transmission between terminals, where a portion of the transmission path between terminals includes an IP network such as the Internet.

MESSAGEmanager T.38 IP FAX software provides high performance fax capability and reliability with the industry leading T.30 protocol, Error Correction Mode, MMR fax compression plus real-time IP Fax. Host-based processing allows media processing and call control functions — traditionally performed by specialised digital signal processors (DSP) on boards — to be performed on general purpose host CPU's that run on industry standard servers.

T.30 is the standard for real time facsimile between terminals on the public switched telephone network.

Prerequisites

Alcatel-Lucent OmniPCX Enterprise

- o SIP and H.323 support
- o Release 7.1 or later



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T.38 IP Fax *Solutions for Alcatel-Lucent*

*“Integrate Fax into
your Alcatel-Lucent
VoIP network with
Alcatel-Lucent
Compliant-Tested
MESSAGEmanager
T.38 IP FAX.”*

Many organisations today continue to rely on fax for important business communications. As organisations transition to VoIP a vital component often overlooked is fax.

With MESSAGEmanager and Alcatel-Lucent Gateways, you can seamlessly integrate business applications and multi-function devices with your VoIP Network infrastructure and combine all communication modes, including fax, in a single IP network topology.

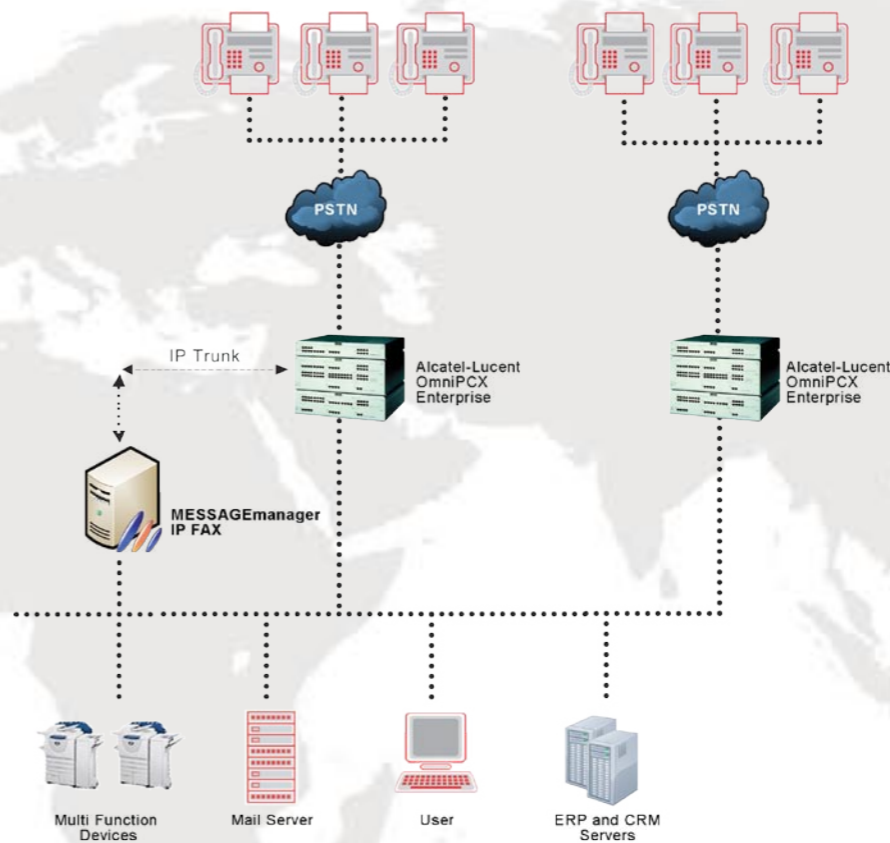
IP Fax Benefits

- o Reduce Call Costs.
- o Integrate Multi-function devices, Email, ERP and CRM applications.
- o Eliminate multiple hardware based solutions with easy to deploy fax software.



Enterprise Fax Server Architecture

MESSAGEmanager and Alcatel-Lucent Gateways



VoIP connections are not sufficiently robust for fax modem use as most use low bit rate codecs which cannot convey the modem signals accurately. Even when high bit rate codecs are used, VoIP connections suffer dropouts and timing adjustments, which modems cannot tolerate.

With IP Fax, fax resources reside in software on a Windows Server. Users, applications and multi-function devices access the fax software with gateways in remote offices providing the interface to the PSTN.

T.38 compliant Alcatel-Lucent Gateways deal with the delays, timing, jitter and packet loss experienced in packet networks and isolate the PSTN Fax terminals from these as far as possible. And by transporting fax as image data, rather than digitised audio, they reduce the required bandwidth of the IP network.

Software intelligently routes traffic between the PSTN access points. The location of MESSAGEmanager T.38 IP FAX software is independent of the PSTN access point. The fax software simply needs access to a data network.

Outgoing fax calls are routed to the Gateway able to deliver the call to the PSTN connected fax machine in the most cost effective manner. Incoming calls are routed to the user's mailbox, printer or folder.