



# Encore's T.38 Fax Relay

## Platform

C.

## Technology

The implementation, which is a real time fax relay, supports ITU-T T.38 recommendation.

## Features

- Adheres to all the mandatory features of ITU-T T.38.
- Support up to and including 14,400 bps fax (V.17, V.29 and V.27ter)
- Multi-channel Capability.
- Relocatable Code & Data Modules.
- Interoperability tested against CISCO gateway and OKI VoIP Terminal Adapter
- Inter operability tested using commercial fax machines and the Genoa Technology's FAXLAB™ T.30 test suite to ensure seamless T.30 relay.
- Implementation in both UDP and TCP modes of packet transfer, selected at "compile-time".
- Supports redundancy for error protection in UDP mode of packet transfer. (Parity FEC, which is an optional scheme of error protection is not supported)
- Spoofing technique implemented so as to handle fixed latency and jitter in receiving IFP packets
- Tested for various IP network impairments such as latency, jitter, packet losses, out of order packet and duplicate packets. Maximum values of the impairments handled is as shown in the table below

Type of Impairment	Maximum Value
Fixed Latency (Round trip)	4 second
Jitter	1 second
Periodic Packet Loss (With level of redundancy > 1)	50%

**Note:** Round trip delay of up to 6s can be supported with an alternative spoofing technique. But this would not be able to effectively handle a situation when IFP packets corresponding to a control sequence (T.30 command) is completely lost

- Provided in the form of Hardware Independent Library for easy porting to the target platform.

## Performance

Per Channel data memory required = 13.05 KBytes  
(This include a jitter buffer of about 4 KBytes)

## Availability

Now.

For further information please visit our web site, <http://www.ncoretech.com> or email to: [ip@ncoretech.com](mailto:ip@ncoretech.com) or contact:

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