



COMMETREX *BladeWare Fax Interop Test Suite*



Commetrex has led the industry effort for T.38 interoperability since January 2002, when it launched the T.38 Interoperability Test Lab, setting the benchmark standards for FoIP interoperability. Since then, nearly every test-equipment vendor in the industry has licensed the core technologies in BladeWare as the basis for their FoIP test-equipment products. Now, NetGen Communications has introduced the *BladeWare Fax Interop Test Suite (FITS)* to allow the OEM to perform similar testing in house. *BladeWare FITS* is a ready-to-test system based on the *BladeWare* stand-alone IP-based media server that provides the developer with a T.38 and G.711 pass-through interoperability testing facility.

FITS uses *BladeWare* to place and accept SIP calls and to send-receive faxes for testing purposes. *BladeWare*'s fax capability is based on Commetrex' TerminatingT38, which is the same technology that became the industry's T.38 reference standard through its use in the T.38 Interop Lab. TerminatingT38, which Commetrex invented in 2000, is the integration of Commetrex' T.38 relay and T.30 protocol engines.

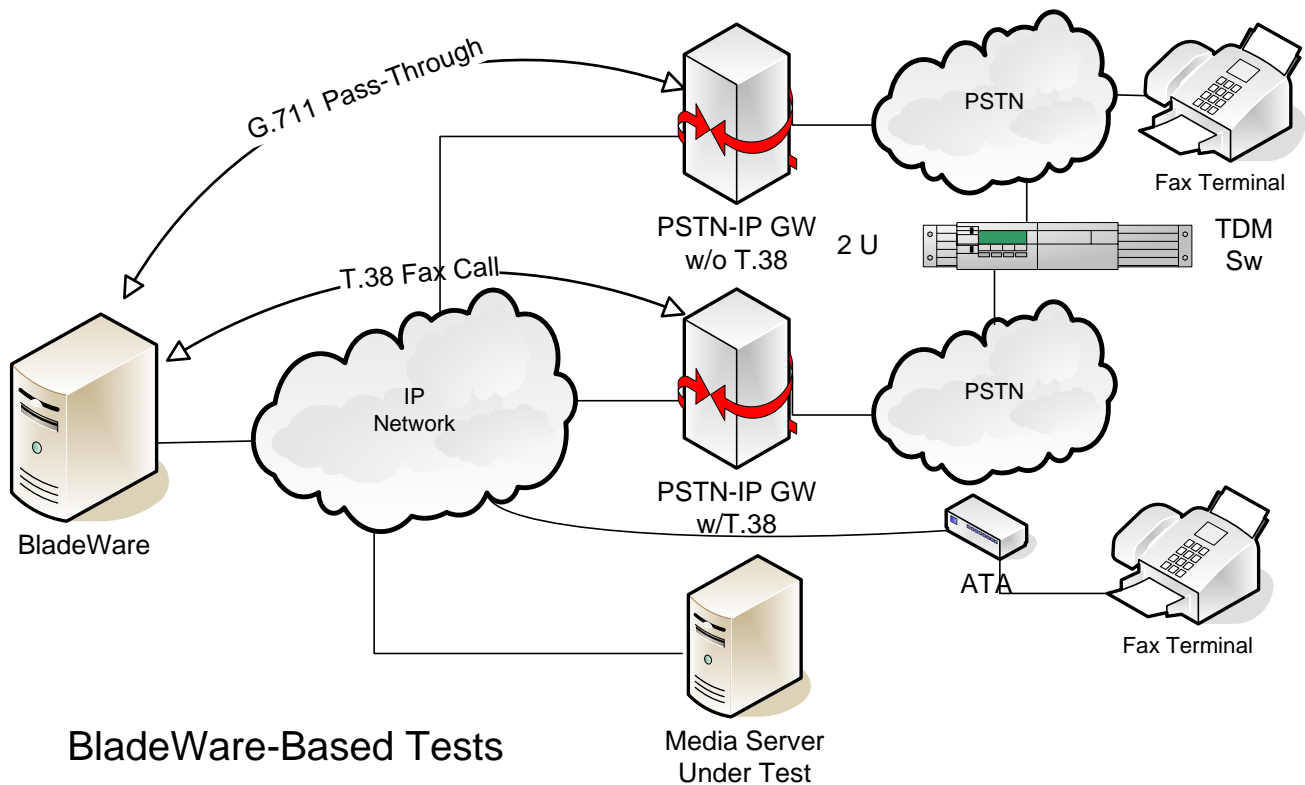
BladeWare may be used to test PSTN-IP gateways and fax-capable media servers. *BladeWare*'s interface with the balance of the test environment is the IP connection. This means that it can directly test an IP-fax-capable media server without additional network elements being required. It can also connect with the IP side of a gateway under test that has a connection with a fax terminal, fax board, or a TDM loop back to a PSTN-IP gateway, with the IP connected back to *BladeWare* for a complete loop-back. *BladeWare FITS* may also be used to test IP-based networks for T.38 and G.711 pass-through robustness.

Features

- Commetrex' TerminatingT38
- Commetrex G.711 pass-through
- T.38 V3 with V.17 available
- Commetrex interop experience available through support options
- Test fax-capable media servers
- Test IP-PSTN gateways
- Test network fax quality

Benefits

- Reduce time-to-market
- Increase customer satisfaction
- Reduce development costs
- Increase effectiveness of service-provider selection



Supported Testing

Developers of media servers, gateways, IP endpoints, and IP networks have a need for integration testing followed by validation of their product's performance when supporting a fax transaction. *BladeWare FITS* can be used for integration testing and validation of any of these systems. Refer to the diagram above.

The most straightforward test is of a fax-capable media server. FITS can handle testing of servers for both T.38 and G.711 pass-through fax transactions. The basic system includes modems up to V.34.

Testing of gateways and analog telephone adapters (ATAs) requires that the unit under test have a TDM fax capability of some type on the PSTN side. In the case of an ATA, it would be a fax terminal or a computer-based fax board. For gateways, a fax terminal, multi-line fax boards, or a TDM switch of some type is required. Commetrex offers a programmable TDM switch, the OTF Call Director, that supports up to 64 DS-1 connections, allowing

very-high capacity load testing through TDM loop-back, as shown in the diagram.

Interoperability Tests

Over three years of interoperability testing in the T.38 Interop Lab produced a series of tests that, if passed, yield a high probability of interoperability in the field. Ten of these tests that are supported by *BladeWare* are listed below:

Transmit UDP

1. ECM
2. Local TCF
3. Pass TCF
4. Hundred-page fax
5. Very long page (1MB)

Receive UDP

1. ECM
2. Local TCF
3. Pass TCF
4. 100-page fax
5. One-byte page

Product Configurations

PN 50030-1: supports up to 50 ports of both T.38 and G.711 pass-through fax.

PN 50030-2: supports up to 100 ports of both T.38 and G.711 pass-through fax.

PN 50030-3: supports up to 200 ports of both T.38 and G.711 pass-through fax.

Additional configurations are available to meet your specific needs.

Platinum Plan

BladeWare FITS Platinum Support give the licensee access to NetGen's top-level development engineers. This means there is no network misbehavior we can't help you resolve.

Platinum support provides support in resolving carrier-network problems.:

Support Options

The following support options are available for *BladeWare FITS*:

Bronze Plan (included)

BladeWare Bronze Support provides the following services:

1. Provide up to 10 hours of phone and e-mail support for installation and interoperability questions.
2. Provide all *BladeWare* software releases made within 90 days of license execution to licensee within 10 business days of availability.

Gold Plan

BladeWare Gold Support provides the following services beyond those of Bronze:

3. Provide unlimited phone and e-mail support for installation and interoperability questions.
4. Provide all *BladeWare* software releases made within 12 months of license execution within 10 business days of availability.

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