



**DEFENSE INFORMATION SYSTEMS AGENCY**  
JOINT INTEROPERABILITY TEST COMMAND  
FORT HUACHUCA, ARIZONA 85613-7020

IN REPLY

REFER TO Networks, Transmission and  
Integration Division (JTE)

MAY 7 2001

Gateway Fax Systems, Inc.  
Mr. Andrew Chambers  
934 Cooper Stone Circle  
Chesapeake, VA 23320

Dear Mr. Chambers:

MIL-STD-188-161D and STANAG 5000 Type I digital facsimile conformance testing has been completed for the GFS Easy-Fax 90Si Facsimile Controller. The GFS Easy-Fax 90Si Facsimile Controller is certified as meeting the Type I requirements of MIL-STD-188-161D, "Interoperability and Performance Standards for Digital Facsimile Equipment," dated 10 January 1995.

In addition, the GFS Easy-Fax 90Si Facsimile Controller is certified to meet the following optional MIL-STD-188-161D requirements: (a) a high resolution capability; (b) multi-page signaling and operation; and (c) use of the end of transmission (EOT) code word or signaling sequence.

The GFS Easy-Fax 90Si Facsimile Controller is not verified as meeting the Type I requirements of NATO Standardization Agreement (STANAG) 5000, "Interoperability of Tactical Digital Facsimile Equipment (Edition 3)," dated 16 June 1996. The GFS Easy-Fax 90Si Facsimile Controller does not implement the NATO mandatory requirements for the 16 kilobits per second data rate and the uncompressed mode of operation.

The tested controller and associated firmware is the GFS Easy-Fax 90Si Facsimile Controller with firmware Version 1.7 installed.

Testing was conducted at the Joint Interoperability Test Command (JITC) Secure Facsimile Testbed using the JITC, "Digital Facsimile Test Plan," dated July 1993. A summary of the test

Note that this "limitation" is not critical because our 90si Secure Fax Gateway, STU-III's, STE's and most other cryptographic devices use the RS-232 Digital Interface Circuit specification and not the MIL-STD-188-114A specification that is mentioned here. Call Andrew Chambers at 1-877-951-9800 or email me at andy@gwfs.com if you have any questions.

results is provided in the enclosed Conformance Certification Test Summary.

There was one conformance limitation noted during testing. The digital circuits used by the GFS Easy-Fax 90Si Facsimile Controller to interface with secure communications equipment are not fully compliant with MIL-STD-188-114A, "Electrical Characteristics of Digital Interface Circuits," dated September 1985. However, the GFS Easy-Fax 90Si Facsimile Controller is fully compliant with EIA/TIA-232, "Interface Between Data Terminal Equipment and Data Circuit-Terminating Equipment Employing Serial Binary Data Interchange," dated September 1997.

Previous interoperability testing of secure digital facsimiles and controllers with communications security equipment indicates that this minor discrepancy will have no impact on the interoperability of the GFS Easy-Fax 90Si Facsimile Controller with any known communications security equipment in the Government inventory, as all require and use an EIA/TIA-232 interface.

Inquiries concerning this conformance test should be directed to Mr. Glenn Paxton, DSN 879-5478/commercial (520) 538-5478 or Mr. James T. Tomko, DSN 879-5008/commercial (520) 538-5008.

Sincerely,

*Leslie F. Claudio*

LESLIE F. CLAUDIO  
Chief  
Networks, Transmission and  
Integration Division

1 Enclosure:  
Conformance Certification  
Testing Summary

Copy to:  
U.S. Representative to ADSIA/PIWG Military Committee, NATO  
Headquarters, Brussels, Belgium  
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Evaluation, Room 3E318, the Pentagon, Washington, DC 20301-  
1700  
Joint Chiefs of Staff, Director for Command, Control,  
Communications and Computer Systems (J6), Room 1E833, the  
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