

# Enabling FIPS-Compliant Mode for the OpenPGP Module

## THE INFORMATION IN THIS ARTICLE APPLIES TO:

- EFT version 7 and later

## DISCUSSION

Some organizations require that file transfers are restricted to FIPS-compliant algorithms. The library used by our OpenPGP module is not restricted to only FIPS-compliant cryptography. However, you can add a registry setting to EFT to restricts the OpenPGP module to use only FIPS-compliant cryptography that is available in the library.

The registry setting described below, when present and the DWORD value is set to non-zero, will configure the OpenPGP library to use FIPS-compliant cryptography only.

### To enable FIPS-compliant mode for the OpenPGP module

[HKEY\_LOCAL\_MACHINE\SOFTWARE\Wow6432Node\GlobalSCAPE Inc.\EFT Server 4.0\Config\]

DWORD: OpenPGPFIPSCompliantAlgorithmsOnly

- 0 = not FIPS only
- 1 = FIPS-compliant cryptography only
- Default when not specified = 0 (not FIPS-only cryptography)

The table below lists the algorithms available for each mode.

FIPS compliant mode	Non-FIPS mode
<b>=Symmetric Encryption Algorithms=</b> 3DES (192-bit key) AES256 (256-bit key) AES192 (192-bit key) AES128 (128-bit key)	<b>=Symmetric Encryption Algorithms=</b> 3DES (192-bit key) CAST5 (128-bit key) AES256 (256-bit key) AES192 (192-bit key)

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	AES128 (128-bit key) BLOWFISH (128-bit key, 16 rounds) TWOFISH (256-bit key) IDEA (128-bit key)
<b>=Hash Algorithms=</b> SHA1 SHA256 SHA384 SHA512 SHA224	<b>=Hash Algorithms=</b> SHA1 MD5 SHA256 SHA384 SHA512 SHA224 RIPEMD160
<b>=Asymmetric Algorithms=</b> RSA (512-bit ~ 4096-bit key) DSA (512-bit ~ 4096-bit key, Sign-Only)	<b>=Asymmetric Algorithms=</b> RSA (512-bit ~ 4096-bit key) DSA (512-bit ~ 4096-bit key, Sign-Only) Elgamal (512-bit ~ 4096-bit key, Encrypt-Only)
<b>=Compression Algorithms=</b> zip (RFC1951) zlib (RFC1950) bzip2 (BZ2) none	<b>=Compression Algorithms=</b> zip (RFC1951) zlib (RFC1950) bzip2 (BZ2) none

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GlobalSCAPE Knowledge Base

<https://kb.globalscape.com/Knowledgebase/11172/Enabling-FIPSCompliant-Mode-...>