

Where cryptography is employed, what randomness source is used?

**THE INFORMATION IN THIS ARTICLE APPLIES TO:**

- EFT, all versions

**QUESTION**

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**ANSWER**

For SSL and related cryptography, we use the OpenSSL random number generator (technically, a pseudo-random number generator, or PRNG) which is based upon a seeded cryptographic hash function. This is documented here:

<https://www.openssl.org/docs/crypto/rand.html>.

Our random number generation is FIPS compliant when operating in FIPS mode. The same random number generation technique is used in non-FIPS mode, it simply is the library implementation without the certification.

For SSH (SFTP) communications, the Crypto++ library is used, with its PNRG (which is also FIPS compliant and, when operated in the proper mode, FIPS certified).

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