



Quest[®] Security Explorer[®] 9.10

Deployment in FIPS Environments



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Legend

- **WARNING:** A WARNING icon indicates a potential for property damage, personal injury, or death.

- ⚠ **CAUTION:** A CAUTION icon indicates potential damage to hardware or loss of data if instructions are not followed.

- ⓘ **IMPORTANT NOTE, NOTE, TIP, MOBILE, or VIDEO:** An information icon indicates supporting information.

Security Explorer Deployment in FIPS Environments
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Deployment overview and requirements

Overview

Security Explorer 9.9.3 can be successfully deployed in a Federal Information Processing Standard (FIPS) environment by following the procedure described in this document.

Audience

This document is intended for technical implementation consultants responsible for deploying Security Explorer.

Cryptographic usage

Security Explorer 9.9.3 relies on the following third-party cryptographic libraries for its cryptographic needs:

Table 1. Cryptographic usage

| Cryptographic Usage | Cryptographic Algorithm | Cryptographic Parameters | Third-Party Libraries |
|-----------------------------------|---|---|---|
| Communication | WCF TCP/HTTP Transport; Security Schannel; SMB v2.1, SMB v3.x; Kerberos; | System.Net.Security.ProtectionLevel.EncryptAndSign | bcryptprimitives.dll or bcrypt.dll |
| Symmetric encryption of bulk data | N/A | N/A | N/A |
| Symmetric encryption of secrets | .Net DPAPI ProtectedData | DataProtectionScope.LocalMachine DataProtectionScope.CurrentUser | System.Security.dll Bcryptprimitives.dll or Bcrypt.dll |
| Asymmetric encryption of secrets | N/A | N/A | N/A |
| Signing | N/A | N/A | N/A |
| Hashing | N/A | N/A | N/A |

Background

To execute in a FIPS compliant mode, a Windows environment requires the Microsoft Policy "System cryptography: Use FIPS compliant algorithms for encryption, hashing, and signing" setting enabled.

Microsoft states that "This policy is only advisory to applications. Therefore, if you enable the policy, it does not make sure that all applications will comply".

Security Explorer 9.9.3 leverages Microsoft's CryptoAPI (CAPI) and CryptoAPI Next Generation (CNG) for its cryptographic needs.

Microsoft Product Relationship with CNG and CAPI libraries is documented here:
<https://technet.microsoft.com/en-us/library/cc750357.aspx>

"Rather than validate individual components and products, Microsoft chooses to validate only the underlying cryptographic modules. Subsequently, many Windows components and Microsoft products are built to rely on the Cryptographic API: Next Generation (CNG) and legacy Cryptographic API (CAPI) FIPS 140 validated cryptographic modules. Windows components and Microsoft products use the documented application programming interfaces (APIs) for each of the modules to access various cryptographic services.

Prerequisites

The following prerequisites are necessary to set up an environment for FIPS Mode.

- Windows Server 2008 R2 or later (latest)
- The following group policies must be enabled:
 - System Cryptography: Use FIPS compliance algorithms for encryption, hashing and signing. Ensure this policy is enabled.
 - Network Security: Configure encryption types allowed for Kerberos. Ensure the "AES128_HMAC_SHA1" and "AES256_HMAC_SHA1" values are selected.

Installation and operation

Installing Security Explorer 9.9.3 in a new environment automatically enforces all FIPS Mode requirements. No updates are required.

In order to ensure FIPS compliance in the environment, older components must be upgraded or uninstalled.

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- Download software and technical documentation.
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- Engage in community discussions.
- Chat with support engineers online.
- View services to assist you with your product.