

## Protect the exchange of critical business information from data and security breaches

### IBM Sterling Connect:Direct Secure Plus Option

#### Benefits

Sterling Connect:Direct provides comprehensive cryptographic security for data exchange to ensure your mission-critical data is transferred with the utmost safety

The threat of data and security breaches is not only real—it's costly. According to Ponemon Institute, the average per-incident costs in 2008 were \$6.65 million, compared to an average per-incident cost of \$6.3 million in 2007<sup>1</sup>. You can reduce the risk of online security breaches and safeguard your business-critical information with IBM® Sterling Connect:Direct® Secure Plus from Sterling Commerce, an add-on that provides configurable authentication and encryption.

While open data communications are great for supporting new e-business applications, there are risks. Your data is now up for grabs, whether it is carried over the Internet or over your own private IP network. Knowing that, how can you be sure that no one is intercepting and reading your business data in flight?

Sterling Connect:Direct provides secure and reliable high-volume data exchange between business-critical applications, both within the enterprise and with external business partners. Sterling Connect:Direct provides data confidentiality and message integrity checking as well as server and client authentication.

#### IBM Sterling Connect:Direct Secure Plus option

- Provides strong mutual authentication, data encryption and data integrity checking
- Uses X.509 certificates to positively identify the entities with which vital data is shared. Strong mutual authentication occurs each time a session is established with Sterling Connect:Direct
- Employs a variety of secure transport technologies, including Secure Sockets Layer (SSL) and Transport Layer Security (TLS) to keep sensitive data confidential and hidden from prying eyes
- Ensures data integrity by means of industry-standard hashing algorithms and terminates the transfer at the first indication of tampering
- Includes a Certificate Wizard tool for easy creation of a Certificate Signing Request and for certificate management
- Secures inter-platform Sterling Connect:Direct data exchanges between z/OS, UNIX, Windows, System i, Open VMS, and HP NonStop
- Offers choice of FIPS-validated algorithms for encryption

- Encryption algorithms supported:
    - AES
    - 3DES
    - DES (supported only when not operating in a FIPS mode)
  - Supports the IBM System z eServer Cryptographic Coprocessor Security Module which is FIPS 140-2 Level 4 validated (when present and operated in FIPS mode) <sup>2</sup>
  - Utilizes Sterling Crypto-C cryptographic module which is FIPS 140-2 Level 1 validated on IBM® Sterling Connect:Direct® for UNIX 4.0 and later and IBM® Sterling Connect:Direct for Microsoft Windows 4.4 Patch 60 and later (when operated in FIPS mode)
  - Provides additional digital certificate validation (including Certificate Revocation List checking) when used with Sterling External Authentication Server
  - Supports Advanced Encryption Standard (AES) 128 and 256 encryption algorithm to provide stronger data confidentiality (valid for TLS protocol only)
- \*Features vary by transport protocol and operating platform. Check for availability.

<sup>2</sup> IBM Sterling Connect:Direct for z/OS Secure Plus relies upon the IBM System SSL libraries for all cryptographic functions. If the IBM eServer Cryptographic Coprocessor is present, System SSL can make use of it through the IBM Integrated Cryptographic Services Facility (ICSF). When the Cryptographic Coprocessor is not available, software encryption is performed by the System SSL libraries. IBM has indicated that System SSL in z/OS V1.11 is planned to provide a mode of operation designed to meet the FIPS 140-2 Level 1 criteria.

### About Sterling Commerce

Sterling Commerce, an IBM® Company, helps organizations worldwide increase business agility in their dynamic business network through innovative solutions for selling and fulfillment and for seamless and secure integration with customers, partners and suppliers. More information can be found at [www.sterlingcommerce.com](http://www.sterlingcommerce.com).

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