

McAfee E-Business Server 7.1 for OS/390

Extending Data Protection to the IBM OS/390 Mainframe Platform

Many technologies to protect data involve complex implementation or expensive, and sometimes outmoded, dedicated or leased lines. Often data is unprotected in storage or transmitted to partners in clear text, opening up the possibilities to have data compromised.

McAfee E-Business Server, formerly PGP E-Business Server, is the most powerful tool to encrypt data at the point of origin on the mainframe and keep it safe in storage, in transit, and during access. E-Business Server for OS/390 provides the distinct data protection features necessary to protect large-scale e-commerce transactions and data transfers from the OS/390 mainframe platform. In addition, E-Business Server is easy to implement and can exchange data with a wide variety of platforms.

McAfee E-Business Server software for OS/390 uses 128-bit minimum PGP encryption technology to protect data everywhere: on the mainframe, accessed by users and in transit over the Internet. E-Business Server for OS/390 ensures information confidentiality and data integrity, restricting access to authorized users. By protecting data on the mainframe, network bandwidth is conserved, unprotected data transfers are eliminated and powerful mainframe hardware is leveraged for performance. McAfee E-Business Server for OS/390 makes it possible to securely transfer data over the Internet, eliminating dedicated lines and transaction fees associated with Value Added Network (VAN) solutions. Additionally, built-in data compression capabilities conserve bandwidth and improve data transmit throughput to speed data processing.

In Storage: E-Business Server for OS/390 protects data stored on the mainframe, using 128-bit PGP encryption or x.509 certificates.

In Transit: Transferred data is always digitally signed to ensure authenticity.

During Access: Only authorized users can access encrypted data.

McAfee E-Business Server for OS/390 protects sensitive business and customer data including:

- Banks processing transactions and account information
- Retailers and distributors securing storage, FTP, batch or real-time transfer of credit card, inventory and point-of-sale data
- Healthcare providers facing HIPAA compliance sharing billing information, patient records, and email over the Internet
- Energy and financial companies implementing regulatory (GISB, Gramm-Leach-Bliley) or partner mandates to protect customer and operating data

"McAfee encryption products make the Internet a viable transmission medium. Without encryption, the potential liability and risk to our clients would not be acceptable."

Dave Burke, Manager of the File Transfer and EDI Unit at Hewitt Associates

Extensive OS/390 Support

Support for batch and JCL, TCO, and USS scripting is provided in E-Business Server for OS/390, enabling users to seamlessly integrate existing applications and business processes.

E-Business Server for OS/390 is designed to provide automated bulk data encryption, decryption and digital signature services by seamlessly integrating into batch environments.

Interactive Mode Support

McAfee E-Business Server for OS/390 runs interactively (under TSO) for operations such as public key generation and script debugging.



Features and Benefits

- Protects customer and business data from unauthorized users throughout its lifecycle: in storage, in transit and during access
- Automates 128-bit minimum PGP encryption, compression, digital signing, data integrity and authentication for consistent data security
- Secures files sizes over 4GB
- Conserves bandwidth and improves transfer speed with built-in compression (up to 50 percent)
- Implements rapidly and easily
- Eliminates leased lines with secure Internet transfer for any protocol
- Supports JCL, TCO, and USS scripting to automate tasks and adapt to specific processes
- Leverages IBM's S/390 crypto acceleration technology
- Generates, disables, re-enables, revokes keys and changes trust criteria with Key Management
- Includes Wipe utility to irretrievably delete sensitive data
- Provides non-repudiation so a sender cannot deny a file was sent
- Encrypt on one platform, decrypt on another with broad platform support: OS/390, AIX, HP-UX, Linux, Solaris, or Windows NT/2000

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Fixed and Variable Block File Support

E-Business Server for OS/390 supports text files in both fixed and variable block file formats, and provides automatic EBCDIC to ASCII conversions (and vice versa) for multi-platform compatibility. E-Business Server for OS/390 also provides sample scripts for converting non-fixed block binary data to a fixed block format. E-Business Server for OS/390 supports files with sizes over 4GB.

Broad OS/390 Version Support

E-Business Server for OS/390 supports a wide range of OS/390 versions including 2.6 and higher.

Simplifies Protecting Data

Developers can embed encryption services into proprietary or third-party applications using scripts or batch processes with simple commands or native APIs.

Extensive Certificate Support

E-Business Server supports all PGP and x.509 certificates giving users flexibility to exchange information securely with more partners than any other encryption software available.

Certificate Authorities supported include Verisign OnSite, Entrust, iPlanet CMS and Windows 2000.X.509 certificate generation allows companies to create in-house Certificate Authorities, freeing them from commercial CA.

Encryption and Authentication

OpenPGP encryption and authentication features within E-Business Server include:

- Key pair generation
- PGP KeyServer support
- Digital signature support
- Public Key encryption/decryption
- Additional Decryption Key data recovery
- Split Key technology
- Encrypted Data Archives (Self Decrypting, and non-executable)
- Archive Reader for Archive decryption (all EBS platforms)
- Data compression
- SmartCard & token support (Windows NT/2000 only)

Algorithms Supported

Symmetric

- CAST5
- AES 128, 192, 256 bit
- IDEA
- 3DES (triple DES)
- Twofish 256-bits

Asymmetric (Public Key)

- RSA v3 and v4 up to 4096-bits
- DSA
- ElGamal (Diffie Hellman)

Hash

- SHA-1
- MD5
- RIPEMD-160

Modes Supported

- Time Sharing Option configured under JCL
- Unix Systems Services

Platforms Supported and Requirements

- IBM OS/390 V2 R6 or later
- Cross platform compatibility with AIX, HP UX, Linux, Solaris or Windows 98/NT/2000

Support and Services

McAfee's PrimeSupport team provides proactive services, responsive support and technical expertise. Whether you need occasional telephone support or 24x7 access to experts, the PrimeSupport portfolio of services contains the right service for you.

McAfee Professional Services can supply the necessary expert advice—onsite—when you need it most.

McAfee Training provides customers with the foundation they need to implement a secure and virus free environment.

For more information on products, worldwide services, and support, contact your authorized McAfee sales representative or visit us at:

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