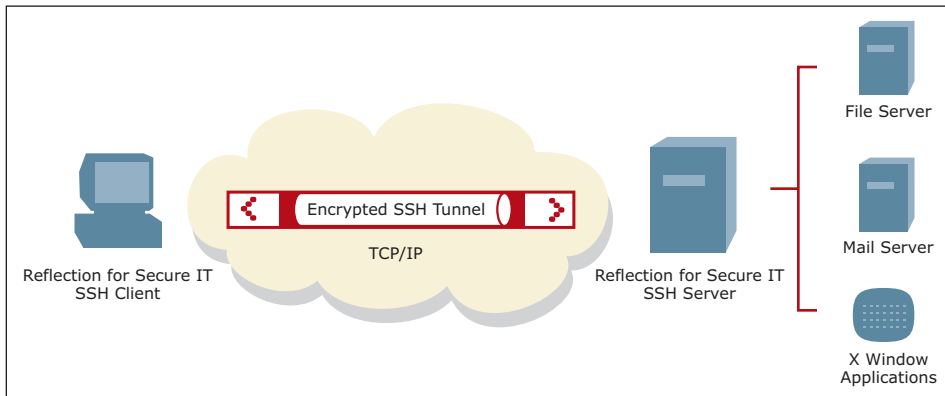


Reflection® for Secure IT UNIX Client uses the SSH protocol to provide secure file transfer and terminal access capabilities for UNIX platforms via utilities such as ssh, scp, and sftp. It is part of the Reflection for Secure IT family of SSH clients and servers for Windows and UNIX—all designed to protect data in motion.



Together, the SSH client and server form a secure “tunnel” through which all communications travel.

**Version 7.2 Highlights**

- SUSE Linux Enterprise Server 11 support.
- Support for High Performance Enabled (HPN) file transfer.
- Inclusion of OpenSSH packages in Linux-based rpm package capability lists.
- Enhanced certificate management tools.

**TECHNICAL SPECIFICATIONS**

**Secure Shell Access**

- Secure remote terminal connections
- Secure remote command execution

**Secure File Transfer**

- SCP and SFTP protocol support
- SCP and SFTP special features:
  - Smart Copy (to eliminate redundant copying of identical source and target files)
  - File transfer resume after interrupted downloads
  - Recursive directory copying
  - Remote-to-remote transfers (SCP)
  - Automatic ASCII mode for specified file extension types (SFTP)

- NEW** • Support for High Performance Enabled (HPN) file transfer
- Unattended scheduled file transfers

**Tunneling**

- TCP port forwarding (local and remote)
- FTP protocol
- X11 protocol
- Background and “one-shot” (single use) forwarding ports

**Standards Support**

- Compliance with IETF Secsh Internet drafts and RFCs 4250–4254, 4256, 4462, 4345, and 4716

**Cryptographic Library Validation**

- FIPS 140-2 Level 1 (Certificate #1027)

**Algorithms**

- Ciphers:
  - AES (128-, 192-, and 256 bit-CBC)
  - AES (128-, 192-, and 256-bit CTR)
  - 3DES (3 56-bit key EDE)
  - Blowfish (128-bit)
  - CAST (128-bit)
  - Arcfour (128- and 256-bit)

• MACs:

- HMAC-MD5
- HMAC-MD5-96
- HMAC-SHA1
- HMAC-SHA1-96
- HMAC-SHA256
- HMAC-SHA512
- RIPEMD160

• Key exchange:

- Diffie-Hellman
- GSS-API key exchange
- RSA
- DSA

**Authentication**

- Server authentication:
  - Public key (RSA and DSA)
  - PKI X.509 certificates

- Kerberos (gssapi-keyex)

• User authentication:

- Password
- Public key:
  - RSA and DSA user keys
  - Key agent utility for private key management
  - Agent forwarding
  - Host name aliasing for host key storage
  - PKCS#11 smart card support on Solaris 10 SPARC platforms

- Keyboard interactive:

- RSA SecurID
- RADIUS
- Keyboard-interactive password

- PKI X.509 certificates

- Kerberos (gssapi-with-mic)

• Reflection PKI Services Manager:

- Centralized configuration and management of PKI functions across multiple Reflection for Secure IT Windows servers, UNIX servers, and UNIX clients
- Standalone service module supported on most platforms supported by Reflection for Secure IT Windows and UNIX servers

- NEW** - DoD PKI certified

- FIPS 140-2 Level 1-validated for most supported platforms (Certificate #1048)
- RFCs 2253, 2560, and 3280
- X.509 certificates for server and client authentication (X.509 versions 1-3)



## TECHNICAL SPECIFICATIONS (continued)

- Version 2 X.509 CRL
- OSCP revocation checks
- NEW** - HSPD-12 support
- Support for LDAP and HTTP certificate and CRL repositories
- Certificate extensions supported:
  - CDP
  - IDP
  - AIA
  - Policy constraints
  - Basic constraints
  - Name constraints
  - Extended key usage
- Customizable configuration on per trust anchor basis
- Fully customizable mapping of SSH user account names to certificates
- NEW** - SOCKS proxy support
- NEW** - PKI client command line utility for querying services availability and certificate validity

### Accounting

- Notification of exceeded maximum password attempts
- Sun Solaris Projects support

### Performance

- NEW** • High Performance Enabled (HPN) support leverages dynamic TCP windows for improved file transfer performance
- NEW** • Granular control of data compression levels enables performance calibration

### Operating Systems

- HP-UX 11i v2 (PA-RISC)
- HP-UX 11i v2 (Itanium)
- HP-UX 11i v3 (Itanium)
- IBM AIX 5.2 (POWER)
- IBM AIX 5.3 (POWER)
- IBM AIX 6.1 (POWER)
- Red Hat Enterprise Linux 4 (Itanium)\*
- Red Hat Enterprise Linux 4 (x86)\*
- Red Hat Enterprise Linux 4 (x86-64)\*
- Red Hat Enterprise Linux 5 (Itanium)\*
- Red Hat Enterprise Linux 5 (x86)\*
- Red Hat Enterprise Linux 5 (x86-64)\*
- Sun Solaris 8 (SPARC)\*
- Sun Solaris 9 (SPARC)\*
- Sun Solaris 10 (SPARC)\*
- Sun Solaris 10 (x86)\*
- Sun Solaris 10 (x86-64)\*
- SUSE Linux Enterprise Server 9 (Itanium)\*

- SUSE Linux Enterprise Server 9 (x86)\*
- SUSE Linux Enterprise Server 9 (x86-64)\*
- SUSE Linux Enterprise Server 10 (x86)\*
- SUSE Linux Enterprise Server 10 (x86-64)\*
- NEW** • SUSE Linux Enterprise Server 11 (x86)\*
- NEW** • SUSE Linux Enterprise Server 11 (x86-64)\*
- zLinux: Red Hat Enterprise Linux 4 (64-bit)\*
- zLinux: SUSE Linux Enterprise Server 9 (32-bit)\*

\* Customizable installation directory available for Solaris and Linux platforms

### System Requirements

- Any system that meets the minimum requirements for the UNIX/Linux operating system
- Network interface card
- For all Itanium systems, the library libunwind is required (HP-UX, Red Hat Enterprise Linux, and SUSE Linux Enterprise Server)
- IBM AIX 5.3 Maintenance Level 5300-5
- Sun Solaris UltraSPARC CPU

## About Attachmate

Attachmate delivers advanced software for terminal emulation, legacy modernization, managed file transfer, and enterprise fraud management. With our technologies, more than 65,000 businesses worldwide are putting their IT assets to work in new and meaningful ways. [www.attachmate.com](http://www.attachmate.com)



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