

Reflection for HP

Reflection® for HP is terminal emulation software that connects Windows® users to applications on HP e3000 and HP 9000 hosts. Awarded the Microsoft® *Works with Windows Vista™* logo, Reflection includes advanced features that increase user productivity, strengthen host security, and ensure reliable connections to any host, from any desktop.

Host Types

HP e3000
HP 9000 (HP-UX)

Emulation Types

HP e3000:
- HP 700/98, 700/96, 700/94, 700/92, and 2392A
HP 9000:
- VT220, VT102, and VT52
- UTF-8 (Unicode) host character-set support

Network Protocols

IPv6 (Telnet, Secure Shell, and OpenSSL) support
SOCKSv5 client support
TAPI 3.0 support
Extensive Telnet options with support for threaded I/O; Line mode; NAWS (option 31); Local Echo, including Telnet option 45 (Suppress Local Echo)
NS/VT, Rlogin, TCP/IP, and network-based modems
Full support for serial connections, including automatic serial-port detection and USB
Third-party LAT support

File Transfer

FTP client:
- Management of FTP settings via Reflection Administrator
- IPv6 support
- Ability to save FTP client sessions in Layouts
- Change UNIX file permissions with FTP client
- SFTP downloads resume after interruption
- Support for a wide variety of FTP servers (UNIX, NetWare, Unisys, HP 3000, IBM mainframe, AS/400, and OpenVMS)
- FTP site wizard
- Site-to-site transfer between FTP servers
- Export/import settings in XML format
- Wildcard filters
- Automation tools (script recorder and Microsoft OLE Automation)
- SSL/TLS encryption for FTP file transfers
- Secure file transfer via SFTP
- Kerberos 5 authentication and encryption support

Drag-and-drop file transfers directly to the desktop
Attachmate proprietary protocol, FTP, Kermit, Xmodem, and Zmodem
ASCII, binary, and labels support

Printing

Windows or host control
Network, local, or print-to-disk
Print logging
Fixed-pitch TrueType and printer font
Line-drawing characters
LPD

Programming and Automation

Microsoft Visual Basic® for Applications (VBA 6.4)
VBA-macro output available in VB.NET and C# (.NET)
VBA-macro sharing
Macro recorder for VBA and Visual Basic
Programmatic access to over 400 properties and methods via Reflection API
Microsoft OLE Automation 2.0 Controller and server capability
Reflection Basic and Reflection Command Language
Run Reflection as an ActiveX® control within a VB or VB.NET application
Programmable events

User Interface

X11 mouse style support
Connection wizard
Customizable toolbars and menus
Dynamic hotspots
Full-screen terminal mode
Graphical keyboard mapping
Mouse mapping (2- and 3-button)
Resizable terminal keyboard
Full color editing
HTML Help in the customization tools

Browser Support

Run Reflection as an ActiveX control in supported browsers

Version 14 Highlights

- Awarded the Microsoft *Works with Windows Vista* logo.
- Support for Microsoft® Windows XP x64 Edition eases migration to new desktop platforms.
- Cryptography built to meet FIPS 140-2 government standards.
- Reflection Certificate Manager simplifies the use of certificates.
- Reflection Key Agent accepts certificates for single sign-on authentication.
- Enhanced support for certificates—PKCS #11, Certificate Revocation Lists (CRL) and intermediate certificate storage through LDAP—enables strong authentication.

Security

- NEW** Built to meet FIPS 140-2 standards
- NEW** Reflection Certificate Manager
- NEW** Reflection Key Agent accepts certificates for single sign-on authentication.
- Secure Shell encryption:
 - NEW** - Secure Shell connection reuse
 - NEW** - Integrated multi-hop SSH configuration support
 - NEW** - Smart card support through PKCS #11 interface
 - SSH key agent
 - PKI support
 - SSH command-line utility
 - Easier uploading of users' public keys to SSH servers
 - Connections to SSH1 and SSH2 protocol servers
 - Port forwarding for TCP/IP ports through secure channel
 - Password, keyboard interactive, user key, and Kerberos authentication
 - Key generation and conversion (RSA-1, RSA, and DSA) utility
 - scp and sftp file transfer utilities
 - Standard SSH configurations for easy deployment
- SSL/TLS Telnet encryption:
 - Integrated SSL 3.0 and TLS 1.0 Telnet encryption
 - Secure NS/VT or Telnet sessions
- PKI support for Secure Shell and SSL/TLS
- Reflection Kerberos Client for HP 9000 connections:
 - Secure authentication
 - Datastream encryption (DES and 3DES) for Telnet and FTP
 - Supports ticket forwarding and renewal
 - Compatible with Microsoft and Leash32 credentials caches
 - Standard Kerberos configurations
 - Support for Kerberos KDCs using TCP or UDP





Administrative Tools

Enhanced support for Windows Terminal Server APIs
Centralized management of settings files using group policy

Usage metering

Customization tools for:

- Settings and installation files (including MSI)
- Online help

Web-based deployment of settings files and updates

Support for Windows administration features:

- Windows Installer
- Active Directory
- Roaming user and multiple user profiles
- Group Policy

Microsoft Windows Terminal Server support

Citrix® MetaFrame™ support

Graphical PING

TimeSync¹

International Support

English, French, German, and Japanese languages

Localized keyboards, displays, and printers

Japanese PC-9800 series

Support for Asian input-method editors

System Requirements

Any system that meets the minimum requirements for the Microsoft Windows operating system

Disk space varies depending on the features installed

Network interface card (not required for serial connections)

256-color or higher video-card resolution

2- or 3-button mouse

Operating Systems

- NEW** Microsoft Windows Vista
- Microsoft Windows XP x64 Edition
- Microsoft Windows XP
- Microsoft Windows 2000
- Microsoft Windows Server 2003
- Microsoft Windows 2000 Server
- Microsoft Windows Terminal Server
- Citrix MetaFrame

¹ Not available on Windows XP.



About Attachmate

Attachmate helps businesses extend, manage, and secure their IT investments. We offer a broad range of solutions—from terminal emulation, legacy integration, and PC lifecycle management products to innovative systems and security management tools. With our technology, more than 40,000 businesses worldwide are putting their IT assets to work in new and meaningful ways. Learn more at www.attachmate.com.



Corporate Headquarters
1500 Dexter Avenue North
Seattle, Washington 98109
TEL 206 217 7500
800 872 2829
FAX 206 217 7515

EMEA Headquarters
The Netherlands
TEL +31 71 368 1100
FAX +31 71 368 1181

Asia Pacific Headquarters
Australia
TEL +61 3 9825 2300
FAX +61 3 9825 2399

Latin America Headquarters
Mexico
TEL +52 55 9178 4970
FAX +52 55 5540 4886

WEB attachmate.com
E-MAIL info@attachmate.com

For regional office information, visit www.attachmate.com.