

Reflection<sup>®</sup> for HP with NS/VT is terminal emulation software that connects Windows<sup>®</sup> users to applications on HP e3000 and HP 9000 hosts. But Reflection does more than make your host connections. It also provides an advanced set of administrative, security, and customization capabilities—all designed to cut the complexity of desktop management.

### 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

**NEW** Support for IPv6 networks (Telnet, Secure Shell, and OpenSSL)

**NEW** Support for SOCKSv5 client

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

**NEW** Management of FTP settings via Reflection Administrator

**NEW** Support for IPv6 networks in the FTP client

**NEW** Ability to save FTP client sessions in Layouts

**NEW** Change UNIX file permissions with FTP client

**NEW** Move settings to configuration files

**NEW** SFTP downloads resume after interruption

FTP client:

- 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<sup>®</sup>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  
WRQ proprietary protocol, FTP, Kermit, Xmodem, and Zmodem  
ASCII, binary, and labels supported

### 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

**NEW** Session-order feature  
Microsoft Visual Basic<sup>®</sup>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<sup>®</sup>control within a VB or VB.NET application  
Programmable events

### User Interface

**NEW** F-Secure SSH Windows Client settings-file migration  
**NEW** Support for X11 mouse style  
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

Use Reflection Web Launch to deploy settings and updates via a web browser  
Convert Reflection settings files for use with Reflection for the Web  
Run Reflection as an ActiveX control in supported browsers

### Security

**NEW** SSH key agent  
**NEW** PKI support in the Reflection Secure Shell Client  
**NEW** SSH command-line utility  
**NEW** Easier uploading of users' public keys to SSH servers  
SSL/TLS Telnet encryption:  
- Integrated SSL 3.0 and TLS 1.0 Telnet encryption through Reflection OpenSSL Client

### WHAT'S NEW IN 13.0?

- Single sign-on provides secure access to all approved hosts and servers with one convenient password.
- SSH key agent strengthens security while making public-key authentication easier for users.
- PKI support in the Reflection Secure Shell and SSL/TLS clients simplifies user authentication.
- SSH command-line utility makes it possible to use commands, rather than graphical interfaces, for SSH tasks.
- Easier uploading of users' public keys to an SSH server encourages adoption of public-key authentication.
- Support for IPv6 networks and SOCKSv5 allows you to provide host access within your existing network infrastructure.
- Users of the F-Secure SSH Windows Client can migrate to Reflection emulation products without losing their configuration settings.
- WRQ FTP client enhancements make it easy to configure, deploy, and start FTP sessions.
- Session-order feature lets users work in pre-selected sessions while other sessions are loading.
- X11 mouse-style support gives Windows users the same feel and functionality as an X11 mouse.
- Enhanced support for Windows Terminal Server APIs improves access to Reflection in WTS environments.
- SFTP downloads resume if interrupted, saving time and conserving network bandwidth.

- Secure NS/VT or Telnet sessions for Windows 2000 and XP (using Reflection Administrator)
- Secure Shell encryption:
  - 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
- Reflection Kerberos Client for HP 9000 connections:
  - Secure authentication



### SECURITY CONTINUED

- 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 KDC's using TCP or UDP

### Administrative Tools

- NEW** Single sign-on
- NEW** 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
- Support for Microsoft Windows Terminal Server
- Support for Citrix®MetaFrame™
- Graphical PING
- TimeSync<sup>1</sup>

### International Support

- English, French, German, and Japanese versions
- 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

- Microsoft Windows XP
- Microsoft Windows 2000
- Microsoft Windows Server 2003
- Microsoft Windows 2000 Server
- Microsoft Windows Terminal Server
- Citrix MetaFrame

<sup>1</sup> Not available on Windows XP.

### ABOUT WRQ

WRQ builds software for accessing and integrating legacy applications. WRQ Reflection® software provides a broad range of terminal emulation, PC X server, and SSH security solutions. WRQ Verastream® integration server provides a single platform for reusing legacy logic and data in web applications, CRM applications, or portals. Our products help companies get the most from their hosts today as they advance their long-term IT strategy. Learn more about our Reflection and Verastream products at [www.wrq.com](http://www.wrq.com).



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