



VERSION COMPARISON CHART

Have you taken a good look at your Reflection lately?

Maybe it's time for an update. Find your Reflection® product in the chart below to see what you might be missing. (Attachmate® Maintenance customers receive free updates of each major release.)

FEATURES IN REFLECTION® FOR IBM®	2011	2008	14.1	14.0	13.X	12.X	11.X	10.X
Integration with Reflection Administrator (optional component)	✓							
- Centralized installation, deployment, and management	✓							
- Secure token authorization for reinforced mainframe security	✓							
Support for Windows Server 2008 R2	✓							
Integration with Microsoft Office 2010	✓							
Granular feature installs for locking down desktops	✓							
Compatible with Windows® 7 logo	✓	✓						
Citrix Ready logo	✓	✓						
Web-based HTML Help system	✓	✓						
Virtualization platform support: Microsoft App-V, Citrix XenApp, and VMware	✓	✓						
Run RUMBA session files and macros	✓	✓						
Tabbed Multiple Document Interface (MDI)	✓	✓						
Built on the .NET Framework	✓	✓						
Segoe for Attachmate font (for consistency with Windows 7)	✓	✓						
Integration with Microsoft Office 2007	✓	✓						
Implementation of the Microsoft Ribbon user interface	✓	✓						
Application, desktop, and Internet search support	✓	✓						
Built-in Screen History, Spell Check, Auto Expand, Auto Complete, Scratch Pad, and Recent Typing features	✓	✓						
Granular User Account Control (UAC) support	✓	✓						
Privacy filters to protect sensitive host data	✓	✓						
Native .NET API	✓	✓						
Trusted locations feature to secure desktop environment	✓	✓						
Automate data exchange between host applications and web applications	✓	✓						
U.S. DoD PKI certification	✓	✓						
Support for current operating environments, including Windows 7 and Citrix XenApp	✓	✓	✓					
Federal Desktop Core Configuration (FDCC) compliance	✓	✓	✓					
IBM Express Logon Feature (ELF) support for single sign-on to mainframe applications	✓	✓	✓	✓				
Automatic Kerberos sign-on for access to IBM System i hosts using Windows credentials	✓	✓	✓	✓				
Reflection Certificate Manager	✓	✓	✓	✓				
Clickable URLs in host sessions	✓	✓	✓	✓				
Smart card support through PKCS #11 interface	✓	✓	✓	✓				
IPv6 support	✓	✓	✓	✓	✓			
FTP client enhancements for configuring, deploying, and starting FTP sessions	✓	✓	✓	✓	✓			
Session order feature (allows users to work in pre-selected sessions while other sessions are loading)	✓	✓	✓	✓	✓			
SSL encryption for AS/400 LIPI file transfers	✓	✓	✓	✓	✓			
Customizable screen sizes (to accommodate host apps with varying screen sizes; e.g., 60x132)	✓	✓	✓	✓	✓			
Ability to browse TSO host file lists without sending Reflection script files to the host	✓	✓	✓	✓	✓			

✓ Feature available in this version.

‡ Maintained Reflection for Secure IT 7.0 customers received this feature in a service pack.

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FEATURES IN REFLECTION® FOR IBM® CONTINUED	2011	2008	14.1	14.0	13.X	12.X	11.X	10.X
FIPS 140-2 validated cryptographic module	✓	✓	✓	✓	✓	✓		
One session file for settings and macros	✓	✓	✓	✓	✓	✓		
Font-sizing option, 3270 word wrap, and FTP toolbar button	✓	✓	✓	✓	✓	✓		
Metering capabilities for usage tracking	✓	✓	✓	✓	✓	✓		
Simplified management of VBA macros created with Reflection	✓	✓	✓	✓	✓	✓		
Management of web- and Windows-based sessions from a single console	✓	✓	✓	✓	✓	✓	✓	
Variety of group policies that support Microsoft Active Directory	✓	✓	✓	✓	✓	✓	✓	
One easy shortcut for opening groups of preconfigured sessions	✓	✓	✓	✓	✓	✓	✓	
Simultaneous transfer of preconfigured file groups	✓	✓	✓	✓	✓	✓	✓	
Microsoft <i>Designed for Windows XP–Optimized</i> logo	✓	✓	✓	✓	✓	✓	✓	✓
Saving of settings in HTML or XML format	✓	✓	✓	✓	✓	✓	✓	✓
Automatic updating and deployment of settings using Reflection Web Launch	✓	✓	✓	✓	✓	✓	✓	✓
Automatic display of the Euro character in IBM applications that support it	✓	✓	✓	✓	✓	✓	✓	✓
Migration of settings to and from Reflection for the Web	✓	✓	✓	✓	✓	✓	✓	✓
Compatibility with any combination of TCP/IP, SNA, and LAN	✓	✓	✓	✓	✓	✓	✓	✓
Windows Terminal Server and Citrix support	✓	✓	✓	✓	✓	✓	✓	✓
Deployment of Reflection using the Microsoft Installer	✓	✓	✓	✓	✓	✓	✓	✓
SSL/TLS Telnet encryption	✓	✓	✓	✓	✓	✓	✓	✓
Ability to update deployed settings files	✓	✓	✓	✓	✓	✓	✓	✓

FEATURES IN REFLECTION FOR UNIX AND OPENVMS	2011	2008	14.1	14.0	13.X	12.X	11.X	10.X
Integration with Reflection Administrator (optional component)	✓							
- Centralized installation, deployment, and management	✓							
- Secure token authorization for reinforced mainframe security	✓							
Support for Windows Server 2008 R2	✓							
Integration with Microsoft Office 2010	✓							
Granular feature installs for locking down desktops	✓							
<i>Compatible with Windows 7</i> logo	✓	✓						
<i>Citrix Ready</i> logo	✓	✓						
Application, desktop, and Internet search support	✓	✓						
Tabbed Multiple Document Interface (MDI)	✓	✓						
Web-based HTML Help system	✓	✓						
Virtualization platform support: Microsoft App-V, Citrix XenApp, and VMware	✓	✓						
Segoe for Attachmate font (for consistency with Windows 7)	✓	✓						
Built-in Screen History, Scratch Pad, and Recent Typing features	✓	✓						
Integration with Microsoft Office 2007	✓	✓						
Attachmate implementation of the Microsoft Ribbon user interface	✓	✓						
Privacy filters to protect sensitive host data	✓	✓						
Trusted locations feature to secure desktop environment	✓	✓						
Automate data exchange between host applications and web applications	✓	✓						
U.S. DoD PKI certification	✓	✓						
Built on the .NET Framework	✓	✓						

FEATURES IN REFLECTION FOR UNIX AND OPENVMS CONTINUED	2011	2008	14.1	14.0	13.X	12.X	11.X	10.X
Native .NET API	✓	✓						
Federal Desktop Core Configuration (FDCC) compliance	✓	✓	✓					
Support for current operating environments, including Windows 7 and Citrix XenApp	✓	✓	✓					
Reflection Certificate Manager	✓	✓	✓	✓				
Reflection Key Agent for single sign-on authentication	✓	✓	✓	✓				
SSH connection reuse	✓	✓	✓	✓				
Integrated multihop SSH configuration support	✓	✓	✓	✓				
Smart card support through PKCS #11 interface	✓	✓	✓	✓				
IPv6 support	✓	✓	✓	✓	✓			
PKI support in the Reflection SSH and SSL/TLS clients	✓	✓	✓	✓	✓			
SSH command line utility for SSH tasks	✓	✓	✓	✓	✓			
SSH configuration scheme support for configuring clients and servers	✓	✓	✓	✓	✓			
Easy uploading of users' public keys to an SSH server	✓	✓	✓	✓	✓			
Support for IPv6 networks and SOCKSv5	✓	✓	✓	✓	✓			
Migration from F-Secure SSH Windows Client to Reflection products without losing configuration settings	✓	✓	✓	✓	✓			
FTP client enhancements for configuring, deploying, and starting FTP sessions	✓	✓	✓	✓	✓			
Session order feature (allows users to work in pre-selected sessions while other sessions are loading)	✓	✓	✓	✓	✓			
New emulation options, including QNX4 and xterm	✓	✓	✓	✓	✓			
X11 mouse style support	✓	✓	✓	✓	✓			
Enhanced support for Windows Terminal Server APIs	✓	✓	✓	✓	✓			
SFTP downloads resume if interrupted	✓	✓	✓	✓	✓			
FIPS 140-2 validated cryptographic module	✓	✓	✓	✓	✓	✓		
Enhanced support for Unicode-enabled hosts	✓	✓	✓	✓	✓	✓		
Drag-and-drop file transfers to the desktop	✓	✓	✓	✓	✓	✓		
Metering capabilities for usage tracking	✓	✓	✓	✓	✓	✓		
Enhanced macro-recording options for .NET environments	✓	✓	✓	✓	✓	✓		
Simplified management of VBA macros created with Reflection	✓	✓	✓	✓	✓	✓		
Management of web- and Windows-based sessions from a single console	✓	✓	✓	✓	✓	✓	✓	
Variety of group policies that support Microsoft Active Directory	✓	✓	✓	✓	✓	✓	✓	
Updated Reflection Profiler for improved administrative control	✓	✓	✓	✓	✓	✓	✓	
Ability to copy and paste Unicode to the Windows clipboard	✓	✓	✓	✓	✓	✓	✓	
Emulation of IBM 3151, 3153, 3101, and 3161 terminals	✓	✓	✓	✓	✓	✓	✓	
Microsoft <i>Designed for Windows XP-Optimized</i> logo	✓		✓	✓	✓	✓	✓	✓
Migration of settings to and from Reflection for the Web	✓	✓	✓	✓	✓	✓	✓	✓
Automatic updating and deployment of settings using Reflection Web Launch	✓	✓	✓	✓	✓	✓	✓	✓
One easy-to-access location for all management tools	✓	✓	✓	✓	✓	✓	✓	✓
Deployment of Reflection using the Microsoft Installer	✓	✓	✓	✓	✓	✓	✓	✓
Saving of settings in HTML or VB Script format to speed distribution to end users	✓	✓	✓	✓	✓	✓	✓	✓
Protection of data with:								
- Integrated SSH client (works with Reflection FTP Client)	✓	✓	✓	✓	✓	✓	✓	✓
- Integrated Kerberos client	✓	✓	✓	✓	✓	✓	✓	✓

FEATURES IN REFLECTION FOR UNIX AND OPENVMS CONTINUED	2011	2008	14.1	14.0	13.X	12.X	11.X	10.X
- SSL/TLS Telnet encryption	✓	✓	✓	✓	✓	✓	✓	✓
Ability to update deployed settings files	✓	✓	✓	✓	✓	✓	✓	✓

FEATURES IN REFLECTION FOR HP	14.1	14.0	13.X	12.X	11.X	10.X
Support for current operating environments, including Windows 7 and Citrix XenApp	✓					
Federal Desktop Core Configuration (FDCC) compliance	✓					
Reflection Certificate Manager	✓	✓				
Reflection Key Agent accepts certificates for single sign-on authentication	✓	✓				
SSH connection reuse	✓	✓				
Integrated multihop SSH configuration support	✓	✓				
Smart card support through PKCS #11 interface	✓	✓				
FTP client enhancements for configuring, deploying, and starting FTP sessions	✓	✓	✓			
Session order feature (allows users to work in pre-selected sessions while other sessions are loading)	✓	✓	✓			
SSH key agent	✓	✓	✓			
PKI support in the Reflection SSH and SSL/TLS clients	✓	✓	✓			
SSH command line utility for SSH tasks	✓	✓	✓			
Enhanced support for Windows Terminal Server APIs	✓	✓	✓			
Support for IPv6 networks and SOCKSv5	✓	✓	✓			
FIPS 140-2 validated cryptographic modules	✓	✓	✓	✓		
Enhanced support for Unicode-enabled hosts	✓	✓	✓	✓		
Expanded connection options via TAPI 3.0	✓	✓	✓	✓		
Metering capabilities for usage tracking	✓	✓	✓	✓		
Enhanced macro recording options for .NET environments	✓	✓	✓	✓		
Simplified management of VBA macros created with Reflection	✓	✓	✓	✓		
Management of web- and Windows-based sessions from a single console	✓	✓	✓	✓	✓	
Variety of group policies that support Microsoft Active Directory	✓	✓	✓	✓	✓	
Secure access to HP e3000 applications using NS/VT and SSL/TLS	✓	✓	✓	✓	✓	
Microsoft <i>Designed for Windows XP–Optimized</i> logo	✓	✓	✓	✓	✓	
Automatic updating and deployment of settings using Reflection Web Launch	✓	✓	✓	✓	✓	✓
Migration of settings to and from Reflection for the Web	✓	✓	✓	✓	✓	✓
One easy-to-access location for all management tools	✓	✓	✓	✓	✓	✓
Industry-standard scripting via Microsoft Visual Basic for Applications	✓	✓	✓	✓	✓	✓
Ability to save settings and record macros in XML	✓	✓	✓	✓	✓	✓
Protection of data with:						
- Integrated Kerberos client	✓	✓	✓	✓	✓	✓
- SSL/TLS Telnet encryption	✓	✓	✓	✓	✓	✓
- Integrated SSH Client (works with Reflection FTP Client)	✓	✓	✓	✓	✓	✓
Added security for authentication and encryption	✓	✓	✓	✓	✓	✓
Integrated Reflection Security Components	✓	✓	✓	✓	✓	✓
Ability to update deployed settings files	✓	✓	✓	✓	✓	✓

FEATURES IN REFLECTION FOR THE WEB	2008	9.6	9.5	9.0X	8.X	7.X	6.X	5.X
Simplified management of Public Key Infrastructure (PKI) certificates	✓							
Troubleshooting enhancements for PKI/smart card authentication and Online Certificate Status Protocol (OCSP)	✓							
Improved screen reader support for greater accessibility	✓							
Advanced copy/paste options	✓							
Macro sharing between sessions of the same type	✓							
Ability to save frequently used IND\$FILE transfers	✓							
Custom color support for the cursor, ruler, and terminal-screen elements	✓							
Enhanced text rendering and scaling	✓							
URL recognition and opening from emulation client	✓							
Cursor ruler support for VT emulation	✓							
Ability for end-users to customize and group local copies of terminal sessions	✓							
Unisys UTS and T27 emulation (Unisys Edition, English Only)	✓							
Automated management server data replication for load-balanced environments	✓	✓	✓					
Online Certificate Status Protocol (OCSP) for Public Key Infrastructure (PKI) environments	✓	✓	✓					
Ability to restrict user access to menus and controls	✓	✓	✓					
Support for CA SiteMinder	✓	✓	✓					
Support for Lightweight Directory Access Protocol (LDAP) interface to Resource Access Control Facility (RACF)	✓	✓	✓					
Support for Eastern European and Cyrillic code pages and character sets	✓	✓	✓					
Certificate revocation list (CRL) support	✓	✓	✓	✓				
Certificate policy support	✓	✓	✓	✓				
Automatic Kerberos sign-on for access to IBM iSeries hosts using Windows credentials	✓	✓	✓	✓				
SSH SFTP (secure file transfer) support	✓	✓	✓	✓				
Ability to browse host files for IND\$FILE	✓	✓	✓	✓				
Cursor ruler support	✓	✓	✓	✓				
Mouse mapping	✓	✓	✓	✓				
Dockable keyboard, button, and toolbar palettes	✓	✓	✓	✓				
Option to view/hide OIA	✓	✓	✓	✓				
End-to-end SSL/TLS encryption from the client, through the security proxy server, to the host	✓	✓	✓	✓	✓			
Smart card support	✓	✓	✓	✓	✓			
Single sign-on to IBM mainframes via Express Logon Feature	✓	✓	✓	✓	✓			
Integration with IBM WebSphere Portal	✓	✓	✓	✓	✓			
IBM WebSphere browse-away support	✓	✓	✓	✓	✓			
Centrally managed FTP client for standalone use	✓	✓	✓	✓	✓			
FTP command line interface for file transfers	✓	✓	✓	✓	✓			
Macro enhancements for users and administrators	✓	✓	✓	✓	✓			
FIPS 140-2 validated cryptographic modules	✓	✓	✓	✓	✓	✓		
More secure FTP file transfers to and from any host or FTP server	✓	✓	✓	✓	✓	✓		
Faster authentication for Microsoft Active Directory users starting web or Windows sessions	✓	✓	✓	✓	✓	✓		

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FEATURES IN REFLECTION FOR THE WEB CONTINUED	2008	9.6	9.5	9.0X	8.X	7.X	6.X	5.X
Improved metering for tracking usage levels	✓	✓	✓	✓	✓	✓		
Enhanced printing capabilities, based on Java 2 support	✓	✓	✓	✓	✓	✓		
Management of web- and Windows-based sessions from the same console	✓	✓	✓	✓	✓	✓	✓	
Integration with BEA portals	✓	✓	✓	✓	✓	✓	✓	
Web single sign-on using CA SiteMinder	✓	✓	✓	✓	✓	✓	✓	
Secure token authorization	✓	✓	✓	✓	✓	✓	✓	
SSH2 support	✓	✓	✓	✓	✓	✓	✓	
AES encryption	✓	✓	✓	✓	✓	✓	✓	
Triple DES encryption	✓	✓	✓	✓	✓	✓	✓	✓
SSL/TLS encryption for Telnet	✓	✓	✓	✓	✓	✓	✓	✓
Centralized deployment, configuration, troubleshooting, and security	✓	✓	✓	✓	✓	✓	✓	✓
Ability to print to HPT (Host Print Transform) or non-HPT printing devices using 3812 printer emulation	✓	✓	✓	✓	✓	✓	✓	✓
Transfer of data to and from AS/400 hosts using SQL, a SQL Wizard, or ASCII files	✓	✓	✓	✓	✓	✓	✓	✓
Quick automation of tasks with our macro recorder—no programming required	✓	✓	✓	✓	✓	✓	✓	✓
Use of FTP to transfer files between FTP servers and Reflection for the Web terminal sessions	✓	✓	✓	✓	✓	✓	✓	✓
Printing from HP systems using local or host control; network, local, or print to disk; top, bottom, and record mode logging support; and line-drawing characters	✓	✓	✓	✓	✓	✓	✓	✓
Ability to print using TN3287 transport for 3270 printer sessions	✓	✓	✓	✓	✓	✓	✓	✓
Ability to link a terminal session to a printer session using TN association; the host automatically assigns a printing device LU	✓	✓	✓	✓	✓	✓	✓	✓
Additional IBM 3270 features, such as cut to clipboard, word wrap, smart insert, and error reset	✓	✓	✓	✓	✓	✓	✓	✓

FEATURES IN REFLECTION X	14.1	14.0	13.X	12.X	11.X	10.X
Support for current operating environments, including Windows 7 and Citrix XenApp	✓					
X11 RENDER extension support	✓					
Federal Desktop Core Configuration (FDCC) compliance	✓					
Native 64-bit support	✓	✓				
X11R6.9 compliance	✓	✓				
Reflection Certificate Manager	✓	✓				
Reflection Key Agent for single sign-on authentication	✓	✓				
SSH connection reuse	✓	✓				
Integrated multi-hop SSH configuration support	✓	✓				
Smart card support through PKCS #11 interface	✓	✓				
Support for DOUBLE-BUFFER and XF86_Bigfont extensions	✓	✓	✓			
Support for 3Dconnexion SpaceBall 5000 and SpaceMouse Plus	✓	✓	✓			
Support for multiple X screens	✓	✓	✓			
Downloadable server and connection templates	✓	✓	✓			
Application-specific icons	✓	✓	✓			
XKB extension support	✓	✓	✓			

FEATURES IN REFLECTION X CONTINUED	14.1	14.0	13.X	12.X	11.X	10.X
Support for any local window manager	✓	✓	✓			
Secure remote troubleshooting capability	✓	✓	✓			
SSH enhancements, including a new SSH key agent	✓	✓	✓			
Automatic image pasting to graphics editor	✓	✓	✓			
Support for multiple XDMCP sessions	✓	✓	✓			
Secure font retrieval function	✓	✓	✓			
X Client Wizard enhancements	✓	✓	✓			
FIPS 140-2 validated cryptographic modules	✓	✓	✓	✓		
Support for all types of Windows fonts, including TrueType	✓	✓	✓	✓		
Support for Multicast (IPv6)	✓	✓	✓	✓		
Consolidated view of all configuration settings	✓	✓	✓	✓		
Metering capabilities for usage tracking	✓	✓	✓	✓		
Management of multiple X clients and servers in the same window	✓	✓	✓	✓	✓	
Customization of X client launching methods using the RunRX utility	✓	✓	✓	✓	✓	
Integrated secure FTP with site-to-site file transfer support	✓	✓	✓	✓	✓	
Scroll and mapping support for mouse-wheel users	✓	✓	✓	✓	✓	
OpenGL 1.4 and GLX 1.3 support	✓	✓	✓	✓	✓	
Certification for Windows 2000	✓	✓	✓	✓	✓	✓
Installation of Reflection X using Microsoft Installer	✓	✓	✓	✓	✓	✓
Deployment of Reflection X via Microsoft Active Directory	✓	✓	✓	✓	✓	✓
Integrated VPN functions that enable remote PC users to connect to X Window applications through NAT	✓	✓	✓	✓	✓	✓
Integrated security, including SSH and Kerberos clients	✓	✓	✓	✓	✓	✓
Rendering of graphics with improved performance over previous versions	✓	✓	✓	✓	✓	✓
Running of X clients on 64-bit Intel platforms	✓	✓	✓	✓	✓	✓
Connection to X clients over IPv6 networks	✓	✓	✓	✓	✓	✓
Running of multiple X desktops simultaneously (e.g., CDE, GNOME, and KDE simultaneously) with correct settings and without resetting X server	✓	✓	✓	✓	✓	✓
Microsoft <i>Designed for Windows XP-Optimized</i> logo	✓	✓	✓	✓	✓	✓
Microsoft Terminal Server and Citrix support	✓	✓	✓	✓	✓	✓

FEATURES IN REFLECTION FOR SECURE IT, WINDOWS CLIENT	7.2	7.1	7.0	6.1	6.0	5.4
Microsoft Windows 7 support	✓					
Convenient setup for multihop connections	✓					
Preserved timestamps and file attributes during SFTP transfers	✓					
Smart card support for agent forwarding	✓					
Shared trusted certificate store location	✓					
Microsoft Windows Server 2008 support	✓	✓				
IPv6 support in command line utilities (ssh, scp, sftp)	✓	✓				
Configurable default permissions for uploaded files	✓	✓				
HTTP proxy server support	✓	✓				
Support for environment variables in configuration file settings	✓	✓				

FEATURES IN REFLECTION FOR SECURE IT, WINDOWS CLIENT <small>CONTINUED</small>	7.2	7.1	7.0	6.1	6.0	5.4
Attachmate Cryptographic Module version 2.0.40 (FIPS 140-2 Level 1 validated—certificate #1027)	✓	✓				
Reflection FTP client utility	✓	✓	✓			
The SFTP protocol, standard FTP (unencrypted), FTP over SSL/TLS, and Kerberized FTP (TLS)	✓	✓	✓			
Public Key Infrastructure (PKI) support	✓	✓	✓			
File transfer automation via OLE interface	✓	✓	✓			
Easier configuration of SSH tunneling for FTP sessions	✓	✓	✓			
Reflection Certificate Manager	✓	✓	✓	✓		
Reflection Key Agent accepts certificates for single sign-on authentication	✓	✓	✓	✓		
Enhanced command line switches and scp options	✓	✓	✓	✓		
Consolidated user key dialog for certificates and keys	✓	✓	✓	✓	✓	
Automatic conversion of keys to correct format upon upload	✓	✓	✓	✓	✓	
Deployment of SSH client using the Microsoft Installer	✓	✓	✓	✓	✓	
Support for Windows Terminal Server and Citrix Presentation Server	✓	✓	✓	✓	✓	
Microsoft <i>Designed for Windows XP</i> logo	✓	✓	✓	✓	✓	
Migration wizard for converting F-Secure profiles to Reflection settings	✓	✓	✓	✓	✓	
Key codes removed	✓	✓	✓	✓	✓	
Authentication agent (key agent) for safely storing private and public keys	✓	✓	✓	✓	✓	✓
Ability to connect to several SSH servers without entering a passphrase	✓	✓	✓	✓	✓	✓
SFTP downloads resume if interrupted	✓	✓	✓	✓	✓	✓
Unattended scheduled file transfers	✓	✓	✓	✓	✓	✓

FEATURES IN REFLECTION FOR SECURE IT, WINDOWS SERVER	7.1	7.0	6.1	6.0	5.3
Centralized PKI support via the Reflection PKI Services Manager	✓				
Granular permissions for file transfer functions (upload/download/browse/delete) configurable at Global, Group, and User levels and by Client address	✓				
Attachmate Cryptographic Module version 2.0.40 (FIPS 140-2 Level 1 validated—certificate #1027)	✓				
SFTP and SCP2 Smart Copy	✓				
Support for the Microsoft Certificate Store	✓				
Support for file transfer checkpoint resume	✓				
FTP over SSH for both active and passive mode connections	✓				
Windows Server 2008 support	✓	‡			
Granular access control configurations for local and domain users and groups	✓	‡			
Section 508 support in configuration console	✓	‡			
Support for user keys generated using the OpenSSH keygen utilities	✓	‡			
GSSAPI/Kerberos-based user and host authentication	✓	✓			
Windows domain authentication enhancements	✓	✓			
Full range of documentation formats (context-sensitive help, PDF, and HTML)	✓	✓			
Improved user interface (simplifies configuration of server settings)	✓	✓			
Enhanced logging capabilities, including more customization options for diagnostic and event data collection	✓	✓			
Additional key exchange algorithms	✓	✓			
IP blocking feature	✓	✓			
Native 64-bit Windows support for x64 hardware	✓	✓			

FEATURES IN REFLECTION FOR SECURE IT, WINDOWS SERVER	CONTINUED	7.1	7.0	6.1	6.0	5.3
Enhanced domain name authentication		✓	✓	✓		
Windows Domain authentication		✓	✓	✓	✓	
Maximum password feature		✓	✓	✓	✓	
Key codes removed		✓	✓	✓	✓	
Windows Server 2003 support		✓	✓	✓	✓	
New ways to specify folders for file transfers: single root (=c:\sftp)		✓	✓	✓	✓	
FIPS 140-2 Level 1 validated cryptographic modules		✓	✓	✓	✓	✓
Server hostkey fingerprint dialog box to enable hostkey verification for first connection		✓	✓	✓	✓	✓

FEATURES IN REFLECTION FOR SECURE IT, UNIX CLIENT	7.1	7.0	6.1	6.0	5.0
Centralized PKI support via the Reflection PKI Services Manager	✓				
Customizable installation locations in Solaris and Linux	✓				
Attachmate Cryptographic Module version 2.0.40 (FIPS 140-2 validated—certificate #1027)	✓	‡			
Enhanced X.509 certificate utility (ssh-certview)	✓				
Support for PKCS#11 smart cards in Solaris 10 SPARC	✓				
Host name aliasing for host key storage	✓	‡			
Sun Solaris Projects support	✓	‡			
Enhanced support for Kerberos through gssapi-keyex	✓	✓			
SSH connection reuse feature	✓	✓			
Updated key generation utility	✓	✓			
Full range of documentation formats (PDF and HTML)	✓	✓			
Strict Mode support	✓	✓			
Additional platform support:					
- HP-UX 11i v2 (Itanium)	✓	✓	✓	✓	✓
- HP-UX 11i v3 (Itanium)	✓	‡			
- HP-UX 11i v1 (PA-RISC)	✓	✓	✓	✓	✓
- HP-UX 11i v2 (PA-RISC)	✓	‡	✓		
- 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 10 (SPARC)	✓	✓	✓	✓	
- Sun Solaris 10 (x86)	✓	‡		✓	
- Sun Solaris 10 (x86-64)	✓	✓	✓	✓	
- Sun Solaris 8 (SPARC)	✓	✓	✓	✓	✓
- Sun Solaris 9 (SPARC)	✓	✓	✓	✓	✓

FEATURES IN REFLECTION FOR SECURE IT, UNIX CLIENT <small>CONTINUED</small>	7.1	7.0	6.1	6.0	5.0
- SUSE Linux Enterprise Server 10 (x86)	✓	✓	✓		
- SUSE Linux Enterprise Server 10 (x86-64)	✓	✓	✓		
- SUSE Linux Enterprise Server 9 (Itanium)	✓	✓	✓	✓	✓
- SUSE Linux Enterprise Server 9 (x86)	✓	✓	✓	✓	✓
- SUSE Linux Enterprise Server 9 (x86-64)	✓	✓	✓	✓	✓
Key codes removed	✓	✓	✓	✓	
Standard installation directories (all executables installed under /usr on all platforms)	✓	✓	✓	✓	✓
Recording of failed login attempts in system logs	✓	✓	✓	✓	✓
SFTP client supports wildcard expansion in the sftp shell	✓	✓	✓	✓	✓

FEATURES IN REFLECTION FOR SECURE IT, UNIX SERVER	7.1	7.0	6.1	6.0	5.0
Centralized PKI support via the Reflection PKI Services Manager	✓				
Customizable installation locations in Solaris and Linux	✓				
Attachmate Cryptographic Module version 2.0.40 (FIPS 140-2 validated—certificate #1027)	✓	‡			
Granular permissions for file transfer functions (upload/download/browse/delete) configurable at Global, Group, and User levels and by Client address	✓				
Additional file transfer logging options (login/logout, directory listings, uploads, downloads, file modifications)	✓				
Configurable pre-authenticated session limits	✓				
User shell configuration inheritance from LDAP directories	✓				
Sun Solaris Least Privilege Model support	✓				
Enhanced X.509 certificate utility (ssh-certview)	✓				
Dynamic support for UNIX TCP Wrappers	✓	‡			
HP-UX System Administration Manager (SAM) Auditing and Security tool support	✓	‡			
Enhanced support for Kerberos through gssapi-keyex	✓	✓			
Dead and idle client detection	✓	✓			
Full range of documentation formats (PDF and HTML)	✓	✓			
Strict Mode support	✓	✓			
Additional platform support:					
- HP-UX 11i v2 (Itanium)	✓	✓	✓	✓	✓
- HP-UX 11i v3 (Itanium)	✓	‡			
- HP-UX 11i v1 (PA-RISC)	✓	✓	✓	✓	✓
- HP-UX 11i v2 (PA-RISC)	✓	‡	✓		
- 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)	✓	✓	✓		

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FEATURES IN REFLECTION FOR SECURE IT, UNIX SERVER CONTINUED	7.1	7.0	6.1	6.0	5.0
- Red Hat Enterprise Linux 5 (x86-64)	✓	✓	✓		
- Sun Solaris 10 (SPARC)	✓	✓	✓	✓	
- Sun Solaris 10 (x86)	✓	‡		✓	
- Sun Solaris 10 (x86-64)	✓	✓	✓	✓	
- Sun Solaris 8 (SPARC)	✓	✓	✓	✓	✓
- Sun Solaris 9 (SPARC)	✓	✓	✓	✓	✓
- SUSE Linux Enterprise Server 10 (x86)	✓	✓	✓		
- SUSE Linux Enterprise Server 10 (x86-64)	✓	✓	✓		
- SUSE Linux Enterprise Server 9 (Itanium)	✓	✓	✓	✓	✓
- SUSE Linux Enterprise Server 9 (x86)	✓	✓	✓	✓	✓
- SUSE Linux Enterprise Server 9 (x86-64)	✓	✓	✓	✓	✓
Maximum password feature	✓	✓	✓	✓	
Key codes removed	✓	✓	✓	✓	
Standard installation directories (all executables installed under /usr on all platforms)	✓	✓	✓	✓	✓



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