

Micro Focus Reflection Desktop Product Family

Comparing Reflection Desktop Pro Edition Features with Prior Versions

The Reflection Desktop product line is the most advanced terminal emulation solution on the market, providing enterprise customers with reliable host connectivity, printing, file transfer, and automation capabilities, along with support for enterprise platforms and advanced security. See how this modern terminal emulator continues to evolve to ensure your host systems are optimally connected, protected, and automated.

Features	17.x	16.x	14.x
Supported Platforms			
Desktop Operating Systems			
Windows 10—Professional or Enterprise “Windows as a Service” support	●	●	
Windows 8.1—Professional or Enterprise	●	●	●
Windows 7 Professional—Enterprise or Ultimate		●	●
Server Environments (Deployment and Virtualization)			
Windows Server 2019 Remote Desktop Services (RDS)	●	●	
Windows Server 2016 Remote Desktop Services (RDS)	●	●	
Windows Server 2012 Remote Desktop Services (RDS)	●	●	●
Enterprise Virtualization Platforms			
Citrix Virtual Apps & Desktops	●	●	
Supported on Citrix XenApp supported versions	●	●	●
VMware Horizon/View, Workstation/Player	●	●	●
Microsoft App-V	●	●	
Cloud Computing Deployment and Support	●	●	
Secure Encryption	17.x	16.x	14.x
Transport Layer Security (TLS) 1.3 and earlier for IBM, VT, FTP	●		
Ability to select custom ciphers for encrypted connections	●		
Ability to select certificate from multiple certificates during TLS connection	●		
Support for elliptic curve cryptography (ECC) with SSH for X Server component	●		
Support for sending intermediate CAs along with the user certificate	●		
Support for checking authenticity of certificates via the Online Certificate Status Protocol (OCSP)	●	●	
Transport Layer Security (TLS) 1.2 and earlier for IBM, VT, FTP	●	●	
Elliptic curve cryptography (ECC) for TLS and SSH (prime curves)	●	●	
Secure Shell (SSH) support	●	●	●

● Feature available in an edition of this version

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Features			
Secure Encryption <small>continued</small>	17.x	16.x	14.x
SHA-2: Support for SHA-256/RSA-2048 digital signatures	●	●	
Access detailed TLS information when user hovers mouse over padlock icon in the session status line	●	●	
Administrators can lock down specific SSL/TLS settings	●	●	
Support for multi-factor authentication to MSS via x.509 certificates on smart card	●	●	
Secure Desktop	17.x	16.x	14.x
Access, set, and lockdown individual security settings via Group Policy or Permissions Manager	●		
Trusted locations feature to allow only trusted session files and macros to execute	●	●	
Ability to encrypt session files	●	●	
Create custom Context Menus	●	●	
Ability to update deployed settings files	●	●	
Support for elevating privileges via User Account Control (UAC)	●	●	
Build Microsoft Installer (.msi) packages and lock down features	●	●	
Data Privacy and Protection	17.x	16.x	14.x
Privacy filters to protect sensitive data	●	●	
PCI DSS mode to prevent unsecured connections to host systems (all networks, wireless networks)	●	●	
Support for protecting/masking sensitive data on IBM 3270 and 5250 screens	●	●	
Dynamic privacy filters to efficiently identify, filter and protect sensitive data	●	●	
Ability to ensure PCI DSS compliance for terminal emulation sessions	●	●	
Enforce secure connections over wireless network	●	●	
Make PAN data (credit card numbers) available to select users (e.g., managers)	●	●	
Prevent users from changing PAN settings with User Account Control (UAC)	●	●	
Log when users access credit card numbers on IBM host screens via API to capture in 3rd party logging solution	●	●	
Ease the Transition to Reflection Desktop	17.x	16.x	14.x
Retain existing Reflection 14 sessions and while gaining easier administration	●	●	●
Use existing Reflection 14 session files without changes	●	●	●
Deploy Classic interface to maintain Reflection 14 look and feel	●	●	
Run existing Reflection 14 macros and automations with Reflection Desktop	●	●	
Simplified Administration	17.x	16.x	14.x
Choose between one session file for all customizations or each customization in a separate file	●		
Administrator can modify and deploy specific session settings without changing other settings on users' desktops using Host Access Management & Security Server	●		
Administrators can centrally modify workspace (global) settings without disrupting existing end-user configurations	●		
Support for compound settings files to include all customizations in single session file	●	●	●

● Feature available in an edition of this version

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Features			
Authentication and Authorization	17.x	16.x	14.x
Support for Kerberos telnet authentication for TN5250 connections to the AS/400	●	●	●
Support for IBM Express Logon Feature (ELF) enables certificate authentication and single sign-on (SSO) for mainframe sessions	●	●	●
Support for multi-factor authentication to MSS via x.509 certificates on smart card	●	●	
Automated sign-on to IBM mainframe (ASM) for existing, unmanaged user sessions	●	●	
Centralized Management	17.x	16.x	14.x
Administrator can modify and deploy specific session settings without changing other settings on users' desktops using Host Access Management & Security Server	●		
Use Security Assertion Markup Language (SAML) for authentication to the Micro Focus Host Access Management and Security Server	●		
Seamless workflow to secure host access without disrupting end user productivity	●	●	
LDAP authentication	●	●	
Single Sign-On (SSO) for NTLM v2	●	●	
Support server certificates managed by MSS	●	●	
x.509 Certificate Authentication	●	●	
Require users to authenticate to MSS for permission to access any hosts	●	●	
Centralized certificate management for IBM host systems	●	●	
Host Access Management and Security Server (MSS) Add-Ons			
Security Proxy: Deliver end-to-end encryption and enforce access control at the perimeter with patented security technology	●	●	●
SSH connections via the Security Proxy Add-On	●	●	
Advanced Authentication: Enable multifactor authentication to authorize access to your valuable host systems	●	●	
Automated Sign-On for Mainframe: Enable automated sign-on to IBM 3270 applications via your identity and access management system	●	●	●
PKI Automated Sign-On: PKI-enable automated application sign-on to your critical enterprise systems	●	●	●
Terminal ID Management: Dynamically allocate terminal IDs based on username, DNS name, IP address, or address pool	●	●	●
Standardization and Competitive Replacement	17.x	16.x	14.x
IBM Personal Communications (PComm) sessions and runtime support for PComm macros	●	●	
OpenText (Hummingbird) HostExplorer runtime support for Hummingbird macros	●	●	
Brandon Systems (Jolly Giant) QWS3270 runtime support for Jolly Giant macros	●	●	
Run Rumba sessions and macros	●	●	●
End User Productivity	17.x	16.x	14.x
Broadcast commands from one VT/SSH session to multiple VT/SSH sessions	●		
Macro panel for managing all automations from one central location	●		
3270 APL keyboard support	●		
Set up a recorded macro to run when a session connects	●		
Ability to open legacy EXTRA! file transfer batch (.FTB) files that contain multiple host connections	●		
Use Extra! file transfer scheme files referenced in legacy .ebm macros	●		

● Feature available in an edition of this version

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Features			
End User Productivity <small>continued</small>	17.x	16.x	14.x
Convert toolbar definitions in legacy .RSF files into new ribbon tabs or chunks	●		
Ability to disable tooltips within a session window	●		
Print multiple screens utility for collating data from multiple host applications	●	●	
Scan bar code data into host applications using Bluetooth (wireless) scanning devices	●	●	
Business-user-oriented macro language (Express Macro Language) for IBM hosts	●	●	
Screen History	●	●	
Quickpads, Hotspots, Auto-Complete, Auto-Expand and Spell-Check	●	●	
Visual terminal keyboard for accessing terminal keys	●	●	●
Application, desktop, and Internet search support	●	●	
Support for opening new sessions in existing workspaces	●	●	
Triple-mouse-click support	●	●	
Word wrap support (IBM 3270 and 5250 only)	●	●	●
Tabbed Multiple Document Interface (MDI)	●	●	
Create custom Context Menus	●	●	
Full Plus UI modernization support	●	●	
Ability to merge host print data with a predefined Rich Text Format (RTF) file and output it to Word or PDF document	●	●	
Status bar indicator that indicates progress when starting sessions and importing legacy session files	●	●	
Cut/copy/paste improvements	●	●	
Search feature added in Classic mode	●	●	
Ability to save layouts in Classic mode	●	●	
Integration with Microsoft Office to automate data exchange between host applications and Office	●	●	
User Interface Modernization	17.x	16.x	14.x
Plus UI mode for modernizing green screens with a drag and drop designer	●	●	
Linux GNOME 3 desktop environment support for X Server component	●		
Extra! multi-threaded HLLAPI applications	●	●	
Use existing Reflection Basic macros without changes	●	●	N/A
Reflection Basic macro runtime and editing	●	●	●
Reflection Command Language (RCL) macros support	●	●	●
Customizations and integrations with other desktop applications			
Events Mapper for triggering actions based on events in host sessions with no coding required	●	●	●
Ability to programmatically interact/share information between a host session and a webpage	●	●	
Programmatic access to over 400 properties and methods via Reflection API	●	●	●
HLLAPI, eHLLAPI, and WinHLLAPI (IBM 3270 and 5250)	●	●	●

● Feature available in an edition of this version

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Features			
User Interface Modernization <small>continued</small>	17.x	16.x	14.x
Visual Basic for Applications (VBA) Support	●	●	●
Macro recorder for VBA	●	●	●
VBA macro output available in VB.NET and C# (.NET)	●	●	●
VBA IDE (Integrated Development Environment)	●	●	●
VBA macro sharing	●	●	●
Microsoft .NET	●	●	
API for dynamically updating ribbon based on events	●		
Native .NET API	●	●	
Embeddable .NET control	●	●	
Integration between Reflection .NET API and Microsoft Visual Studio IDE	●	●	
API documentation with detailed walkthroughs on how to use the Reflection API with .NET	●	●	
User Interface Modes	17.x	16.x	14.x
Dynamic ribbon	●		
TouchUx for optimal user experience when interacting with host applications from touch devices	●	●	
Browser	●	●	
Ribbon	●	●	
Classic	●	●	●
Customizable Ribbon	●	●	
Tabbed or windowed Multiple Document Interface (MDI) for sessions	●	●	
Configurable tabs, including colors, renaming, and more	●	●	
Local and online HTML-based Help	●	●	
International Support	17.x	16.x	14.x
German, French, Spanish, Italian, Portuguese localization	●	●	
Support for Chinese Simplified/Traditional, Korean, and Japanese code pages—Double Byte Character Support (DBCS) enabled	●	●	●
Japanese localization	●	●	●

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