



# Reflection Mobile User Guide

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Reflection® Mobile

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# Contents

<b>Release Notes</b>	<b>5</b>
<b>1 Deploying Reflection Mobile</b>	<b>9</b>
Deploying with MDM Tool. . . . .	9
Deployment Scenario . . . . .	9
MDM Configuration Reference. . . . .	11



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# Release Notes

Welcome to Reflection Mobile, an application that allows you to do everyday tasks whenever we want, and wherever we are. Now there's something new that you can do with your mobile device: connect to your UNIX, Linux, and IBM applications to get critical work done. It's as seamless and secure as accessing your host applications from your desktop.

## Reflection Mobile Apps

Mobile devices make it possible for us to do everyday tasks whenever we want, wherever we are. Micro Focus Reflection Mobile 2.0.1 products include new features, enhancements, and bug fixes. Many of these improvements were made in direct response to suggestions from our customers. We thank you for your time and valuable input. We hope you continue to help us ensure that our products meet all your needs.

## Reflection for TN3270 and TN5250

Micro Focus Reflection for TN3270 and TN5250 is a productivity-boosting mobile application designed specifically for iOS mobile devices that gives users wherever, whenever access to IBM mainframe and AS400 hosts via the Telnet transport.

New Features for Version 2.0.1:

### Recent Enhancements

- ◆ iOS 10 Support
- ◆ iCloud Sync
- ◆ Task Automation
- ◆ Fingerprint Recognition for protecting your systems with advanced biometrics.
- ◆ Application PIN-Lock with 4 digit hex pin code for 64k possible combinations.
- ◆ Dynamic zoom to cursor location for optimal usability.
- ◆ ConnectBox For Quick access to multiple applications on you IBM systems.

## Reflection for TN3270 and TN5250 - Lite Version

A lite version of the iOS app Reflection for TN3270 and TN5250. Evaluate the product's advanced terminal emulation features before investing in the full product.

New Features for Version 2.0.1:

### Recent Enhancements

- ◆ iOS 10 and earlier support
- ◆ iCloud Sync (paid app only)
- ◆ Task Automation (paid app only)
- ◆ Touch ID support for protecting your systems with advanced biometrics

- ◆ Application PIN-Lock with 4 digit hex pin code for 64k possible combinations.
- ◆ Dynamic zoom to cursor location for optimal usability.
- ◆ ConnectBox For Quick access to multiple applications on you IBM systems.

## Reflection for UNIX - SSH Client (iOS)

A mobile application for iOS devices that gives IT administrators wherever, whenever access to UNIX/Linux servers via the SSH protocol. This app is easy to download and has a streamlined user interface to enhance user productivity.

New Features for Version 2.0.1:

### Recent Enhancements

- ◆ iOS 10 support
- ◆ iCloud Sync
- ◆ Task Automation
- ◆ Touch ID support
- ◆ IPv6 support
- ◆ Application PIN-Lock
- ◆ iPhone landscape mode

## Reflection for UNIX - SSH Client (Android)

A mobile application for Android devices that gives IT administrators wherever, whenever access to UNIX/Linux servers via the SSH protocol. This app is easy to download and has a streamlined user interface to enhance user productivity.

New Features for Version 1.3.0.0:

### Recent Enhancements

- ◆ IPv6 support
- ◆ Application PIN-Lock
- ◆ Support for low-res devices running Android 4.2 or later (down to 480x800)

## Reflection Mobile

A native iOS app that provides anytime access to IBM mainframes, AS/400s (IBM System i), and UNIX/Linux systems from iPads and iPhones. You must be enrolled in the Apple Volume Purchase Program for Business.

New Features for Version 2.0.0:

### Recent Enhancements

- ◆ IPv6 support
- ◆ Mobile Device Management MDM/EMM support
- ◆ Barcode Scanning
- ◆ Task Automation

- ◆ iCloud Support
- ◆ Application PIN-Lock
- ◆ Support for low-res devices running Android 4.2 or later (down to 480x800)



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# 1 Deploying Reflection Mobile

- ◆ [“Deploying with MDM Tool” on page 9](#)
- ◆ [“MDM Configuration Reference” on page 11](#)

## Deploying with MDM Tool

While MDM Tool solutions may be used to manage the deployment of Reflection® Mobile to iOS devices, it may also be used to customize the app prior to deployment to end-user devices. By using the MDM Tool Application Configuration feature, an administrator may:

- ◆ Push session configurations to end-user devices
- ◆ Set the App Settings for the app
- ◆ Restrict certain UI features

By leveraging these abilities, an administrator can fully configure the app as needed and lock it down. See the **MDM Settings Reference** document for details on all MDM properties supported by the Reflection Mobile app.

## Deployment Scenario

As an example, let’s configure the Application Configuration section of a MDM Tool app assignment to:

- ◆ Only support IBM sessions (disable SSH and Telnet)
- ◆ Block the user from creating, editing, or managing sessions
- ◆ Hide the host name/IP and port from the user
- ◆ Configure two sessions

**Figure 1-1** The MDM Tool administrative console would look as follows:

APPLICATION CONFIGURATION

**i** Enter Key-Value pairs to configure applications for users:

Configuration Key	Value Type	Configuration Value	
EnableSSH	Boolean	false	✕ Insert Lookup Value
EnableTelnet	Boolean	false	✕ Insert Lookup Value
AllowNewSession	Boolean	false	✕ Insert Lookup Value
AllowEditSession	Boolean	false	✕ Insert Lookup Value
AllowManageSessions	Boolean	false	✕ Insert Lookup Value
ShowIPAddressAndPort	Boolean	false	✕ Insert Lookup Value
Sessions.deleteall	String	*	✕ Insert Lookup Value
Session1.Name	String	Sales	✕ Insert Lookup Value
Session1.HostURL	String	tn3270e://serverx.acme.com:23	✕ Insert Lookup Value
Session2.Name	String	Accounting	✕ Insert Lookup Value
Session2.HostURL	String	tn5250://servery.acme.com:23	✕ Insert Lookup Value

**+** Add

Here's a table of the key-value pairs for this example and what each does.

**Table 1-1**

Configuration Key	Value Type	Configuration Value	Description
EnableSSH	Boolean	false	Disables support for SSH sessions.
EnableTelnet	Boolean	false	Disables support for Telnet sessions.
AllowNewSession	Boolean	false	Locks down users ability to create a new session.
AllowEditSession	Boolean	false	Locks down users ability to edit a session.
AllowManageSessions	Boolean	false	Locks down user from managing sessions.
ShowIPAddressAndPort	Boolean	false	Remove host name/IP or port in user interface.
Sessions.deleteall	String	*	Delete all existing sessions.
Session1.Name	String	Sales	Name of session1
Session1.HostURL	String	tn3270e://serverx.acme.com:23	Host URL for session1
Session2.Name	String	Accounting	Name of session2

Configuration Key	Value Type	Configuration Value	Description
Session2.HostURL	String	tn5250:// server1.acme.com:23	Host URL for session2

### Notes for Deploying Reflection Mobile with an MDM Tool

- ♦ The **Sessions.deleteall** entry deletes all session configurations on the device. This guarantees that the only sessions on the device will be the ones configured via MDM. This is optional.
- ♦ All sessions must be named (i.e. the Name property must be set to a unique string). If not named the session will not be created.
- ♦ Add session configuration using Session1, Session2, Session3, and etc. syntax.
- ♦ If the session type has been restricted, the session will not be created. For example if the **EnableSSH** property has been set to false and an SSH session configuration is present, the session will not be created.

## MDM Configuration Reference

This table defines the properties an administrator may use to configure the Reflection for Mobile apps using an MDM solution. The following properties may be used when creating 3270, 5250, or UNIX sessions.

### All Sessions

Table 1-2

Name	Type	Options	Default
HostURL	String	Examples:  telnet://foo.bar.com:23  tn3270:  tn3270e:  tn5250:  telnet:  ssh:	
Favorite	Bool		false

### UNIX

Table 1-3

Connection	Type	Options	Default
AutoConnect	Bool		true

TELNET

Connection	Type	Options	Default
TERM	String		VT200
TerminalTypes	String		VT220, VT420, VT100, DEC-VT100, VT52
LocalEcho	String	Automatic Yes No	Automatic
SendLFAfterCR	Bool		false
<b>SSH</b>			
SSHTerminalID	String		VT220
AllowUnknownHost	String	Yes No Ask	Ask
SuppressBannerMessages	Bool		false
SetHostWindowSize	Bool		true
UserKeyAuth	Bool		true
KeyboardInteractiveAuth	Bool		true
PasswordAuth	Bool		true
<b>EMULATION</b>			
TerminalType	String	VT52, VT102, VT400-7, VT400-8	VT400-7
TerminalID	String	WRQ, VT100, VT101, VT102, VT220, VT320, VT420	VT220

Connection	Type	Options	Default
HostCharacterSet	String	DEC-Supplemental ISO-Latin-1 ISO-Latin-2 ISO-Latin-5 ISO-Latin-9 PC-Multilingual ISO-Latin-3 ISO-Latin-4 Cyrillic Arabic Greek Hebrew Latin-6 Thai Latin-7-Baltic-Rum Latin-8-Celtic Romanian Latin-1-Euro Latin-4-Euro Latin-7-Baltic-Rim-Euro	
AnswerbackString	String		
AutoAnswerback	Bool		false
<b>DISPLAY</b>			
Autosize	Bool		true
Fontsize	Integer		15
Columns	Integer		80
Rows	Integer		24
EnableScrollbackBuffer	Bool		true
ScrollbackRowUnlimited	Bool		false
ScrollbackRowLimitCustom	Integer		500
SmoothScrool	Bool		false

Connection	Type	Options	Default
JumpScrollSpeed	String	Automatic Page Unlimited 1, 2, 4, 8, 16, 32, 64, 128	
AutoWrap	Bool		true
CursorShape	String	FullBlock HighHalfBlock LowHalfBlock Underline VerticalBar	FullBlock
CursorVisible	Bool		true
CursorBlinking	Bool		true
ForegroundColor	String	White Black LightGray Gray Red Maroon Yellow Olive BrightGreen Green Cyan MediumBlue Blue Magenta Purple	White
Background Color	String	Same as ForegroundColor	Black
<b>Keyboard</b>			
VTbackspaceSends	String	Backspace Delete	Delete
EnableWarningBell	Bool		true

Connection	Type	Options	Default
MarginWarningBell	Bool		false

**IMPORTANT:** These tables apply to Reflection for Mobile apps version 2.1 or later.

## IBM

*Table 1-4*

Connection	Type	Options	Default
<b>Connection - 3270</b>			
AutoConnect	Bool		true
AutoReconnect	Bool		true
TN3270E	Bool		true
TLSSSL	String	None	None
		TLS1.0	
		TLS3.0	
DeviceName	String		
TerminalMode	String	MOD2	
		MOD3	
		MOD4	
		MOD5	
		MOD2E	
		MOD3E	
		MOD4E	
IBMTerminalID	String	None	None
		IBM-3277	
		IBM-3278	
		IBM-3279	
ResponseMode	Bool	IBM-DYNAMIC	
			true
<b>CONNECTION - 5250</b>			
AutoConnect	Bool		true

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<b>Connection</b>	<b>Type</b>	<b>Options</b>	<b>Default</b>
AutoReconnect	Bool		True
TLSSSL	String	3179-2 3180-2 3196-A1 3477-FC 3477-FG 3486-BA 3487-HA 3487-HC 5251-11 5291-2	3477-FC

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**EMULATION - 3270**

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<b>Connection</b>	<b>Type</b>	<b>Options</b>	<b>Default</b>
NationalCharSet	String	Austrian AustrianEuro Baltic Belgian BelgianEuro NewBelgian Brazilian BrazilianEuro Bulgarian CanadienEuro CanadianFrench Croatian Czech Danish Danish73 DanishEuro DutchEuro EastEuropean EstonianEuro Finnish FinnishEuro French FrenchEuro German GermanEuro GreekNew	
CountryExtendedGraphicsCode	Bool		true
CursorShape	String	FullBlock HeighHalfBlock LowHalfBlock Underline VerticalBar	FullBlock
CursorVisible	Bool		true

<b>Connection</b>	<b>Type</b>	<b>Options</b>	<b>Default</b>
CursorBlinking	Bool		true
HostBlue	String	White Black LightGray Gray Red Maroon Yellow Olive BrightGreen Green Cyan MediumBlue Blue Magenta Purple	Cyan
HostRed	String	Same as above	Red
HostPink	String	Same as above	Magenta
HostGreen	String	Same as above	Green
HostTurquoise	String	Same as above	Cyan
HostYellow	String	Same as above	Yellow
HostWhite	String	Same as above	White
ProtectedNormalAlpha	String	Same as above	Cyan
ProtectedNormalNumeric	String	Same as above	Cyan
ProtectedHighlightAlpha	String	Same as above	White
ProtectedHighlightNumeric	String	Same as above	White
UnprotectedNormalAlpha	String	Same as above	Green
UnprotectedNormalNumeric	String	Same as above	Green
UnprotectedHighlightAlpha	String	Same as above	Red
UnprotectedHighlightNumeric	String	Same as above	Red
IBMBgroundColor	String	Same as above	Black

Connection	Type	Options	Default
StatusLineOIAForeground	String	Same as above	Green
DisplayStatusLine	Bool		true
<b>EMULATION - 5250</b>			
NationalCharSet	String	Austrian AustrianEuro Baltic Belgian BelgianEuro NewBelgian Brazilian BrazilianEuro Bulgarian CanadianEuro CanadianFrench Croatian Czech Danish Danish73 DanishEuro DutchEuro EastEuropean EstonianEuro Finnish FinnishEuro French FrenchEuro German GermanEuro GreekNew	USEnglish
CountryExtendedGraphicsCode	Bool		true

Connection	Type	Options	Default
CursorShape	String	FullBlock HeighHalfBlock LowHalfBlock Underline VerticalBar	FullBlock
CursorVisible	Bool		true
CursorBlinking	Bool		true
All the same color options as 3270			
ColumnSeparatorStyle	String	None Dots VerticalBars	Dots
DisplayStatusLine	Bool		true
<b>KEYBOARD - 3270</b>			
Typeahead	Bool		true
Wordwrap	Bool		false
AttentionKeySends	String	TelnetBreak AbortOutput InterruptProcess	TelnetBreak
DestructiveBackspace	Bool		false
<b>KEYBOARD - 5250</b>			
TypeAhead	Bool		true
ErrorAutoReset	Bool		true
WaiveFieldChecksForPFKey	Bool		false
DestructiveBackspace	Bool		false
<b>COPY/PASTE</b>			
CopyInputFieldsOnly	Bool		false
WrapTextToNextLine	Bool		false
WrapTextToNextFields	Bool		false
UseFieldDelimiters	Bool		false

Connection	Type	Options	Default
MaskProtectedFields	Bool		false
RestoreStartingCursorPositionAfterPaste	Bool		false

### App Settings Configuration

The following properties may be used to set or override the products App Settings. All of these properties have a corresponding option in the applications **App Settings** page (with the exception of **ReportCrashData** which is only configurable via MDM tool).

*Table 1-5*

Name	Type	Options	Default
KeyBarKeysUNIX	String		/:-_&~+=;
OnNewSession	String	Replace PromptUser NewWindow	NewWindow
OnOpenSession	String	Replace PromptUser NewWindow	NewWindow
TerminalBellAudio	Bool		true
TerminalBellVisual	Bool		false
SendAfterBarcodeScan	String	None Enter Tab	None
LoggingEnabled	Bool		false
EnableCustomFeatures	String		Comma-separated string enabling customer behavior. Current options: DualBarcodeScan
ReportCrashData	Bool		true

### Restricting User Interface

The following properties may be set to limit certain app features. All properties default to true if not set to false.

*Table 1-6*

Name	Type	Description
EnableTn3270	Bool	Enable ability to create IBM 3270 sessions.

<b>Name</b>	<b>Type</b>	<b>Description</b>
EnableTn5250	Bool	Enable ability to create IBM 5250 sessions.
EnableSSH	Bool	Enable ability to create SSH sessions.
EnableTelnet	Bool	Enable ability to create Telnet sessions.
AllowManageSessions	Bool	Enable menu Manage Sessions option.
AllowNewSession	Bool	Enable users ability to create new sessions.
AllowEditSession	Bool	Enable users ability to configure existing sessions.
AllowAppSettings	Bool	Enables menu App Settings option.
AllowManageIdentities	Bool	Enables menu Manage Identities option.
AllowLoggingConfiguration	Bool	Enables ability to configure logging options (turn logging on/off, etc.)
OnlyShowZfeSessions	Bool	When set to true, only sessions managed by ZFE will be available.