RUMBA®

System
Administrator Kit

RUMBA 8.0 Features

MICRO FOCUS®

Contents

1 Introducing RUMBA

This guide is one of many guides included in the RUMBA System Administrator Kit, and is written for information solution providers who are evaluating RUMBA software, and for system administrators who want a quick summary of the features that are included in a RUMBA product.

This chapter introduces the entire RUMBA product line, which provides access to multiple host types: IBM Mainframe, IBM AS/400, UNIX, OpenVMS, and HP. Your RUMBA software may be able to access one or all of these host types depending on your individual needs.

Chapter 2, *RUMBA Feature Descriptions*, contains summary descriptions of the standard features in the various RUMBA host products.

Product overview

Welcome to RUMBA, a software suite that connects your users to information residing on multiple hosts and servers across your organization. With RUMBA you have your choice of protocols such as TCP/IP and Rumba Router (MPTN).

All RUMBA products operate on Windows 7, Windows Vista, Windows XP, Windows 2003, WTS, and Citrix Presentation Server. In addition to providing multiple access solutions, the RUMBA product suite:

- Gives users tools with which they can view, print, and transfer data located anywhere in the organization. These tools help users attain a higher level of efficiency.

- Gives system administrators flexibility in deploying and maintaining RUMBA software.

- Offers developers the functionality needed to quickly generate custom client/server solutions using ActiveX technology.

This guide provides an overview of the entire RUMBA product suite, and presents information on its individual applications. When applicable, it also directs you to more information.

RUMBA product listing

RUMBA products are designed to meet our customers' specific access needs. Micro Focus produces and packages RUMBA products to support multiple or single host access needs, with multiple connection solutions. We also provide RUMBA software versions for popular LANs, and migration products that help you move from one RUMBA product to another as well as from competitor products to RUMBA.

The remainder of this chapter consists of three tables that list the variety of RUMBA products available. The first two tables list the RUMBA product (as a general overview, and then as the individual applications that may be included), with a brief description. Each table first lists multiple protocol products and then products that include network-specific protocols. The third table lists migration products with a short explanation of what they do.

Product Overview

The following table lists multiple-host RUMBA products. The multiple network protocol product is listed first, followed by network-specific protocol products.

	Product description	Connection requirement
RUMBA OFFICE	• Supports IBM Mainframe, IBM AS/400, Digital OpenVMS and UNIX systems, and HP 3000 and 9000 systems • Supports multiple servers and network protocols • Supports display, printing, and file transfer capabilities for all hosts • Provides browser-to-host connections and an integrated set of Internet applications	Multiple network protocols
RUMBA Telnet Edition	• Supports IBM Mainframe, IBM AS/400, Digital OpenVMS and UNIX systems, and HP 3000 and 9000 systems • Designed specifically for the Telnet network protocol • Supports display, printing, and file transfer capabilities for all hosts • Provides browser-to-host connections and an integrated set of Internet applications	Telnet, TCP/IP

Table 1-1   RUMBA overview

Individual application features

The following table provides information on the applications that make up the RUMBA suite.

	Feature description
RUMBA Mainframe Edition	• Supports the IBM Mainframe • Supports multiple servers and network protocols • Supports display, printing, and file transfer capabilities for the mainframe host • Provides browser-to-host connections and an integrated set of Internet applications
RUMBA AS/400 Edition	• Supports the IBM AS/400 • Supports multiple servers and network protocols, including native TCP/IP • Supports display, printing, and file transfer capabilities for the AS/400 host • Designed to maximize the file, print, and database serving capabilities of the AS/400 with such features as Shared Folders, Submit Remote Command, Virtual Print, Data Queues, and RUMBA AS/400 Optimized Server Driver • Provides browser-to-host connections and an integrated set of Internet applications
RUMBA UNIX-HP Edition	• Supports Digital OpenVMS and UNIX systems • Supports multiple servers and network protocols • Supports display, printing, and file transfer capabilities for the UNIX and VMS host • Provides browser-to-host connections and an integrated set of Internet applications • Supports HP 3000 and 9000 systems and UNIX systems supporting HP terminal types • Supports multiple servers and network protocols • Supports display, printing, and file transfer capabilities, including MPE native file transfer, for the HP host • Provides browser -to-host connections and an integrated set of Internet applications

Table 1-2   RUMBA individual host applications

2   RUMBA Feature Descriptions

This chapter contains a brief description of the new features in this release as well as the standard features in the various RUMBA host applications.

- Host-specific features are features that are available only with the appropriate host application. For example, the RUMBA Mainframe Display is considered a host-specific feature because it is available only in installations that include the RUMBA Mainframe application.

- Shared features are those features that can be found in most RUMBA products. Some shared features include the separate Macro Editor (which is bundled with most editions of RUMBA), keyboard configuration, and other tools for end-users, system administrators, and developers.

For detailed instructions on how to use each of these new features, whether shared or host specific, see the online help provided with the product.

New shared features

The following list briefly describes the new shared features available in this release. This release of RUMBA provides:

- The 'RUMBA Desktop' container application in which all RUMBA host display applications are run.

- A new tabbed interface that lets you see multiple host sessions from a single RUMBA window.

- A new 'Ribbon' user interface that makes features easier to find and quicker to use. The old 'Classic' interface is still available for users experienced with previous versions of RUMBA.

- A menu and toobar customization feature for the Classic interface.

New AS/400 features

The following new features are available in AS/400 Applications (Display, Printer, and AS/400 File Transfer).

- AS/400 Display provides Kerberos authentication for increased security.

- AS/400 File Transfer allows a custom delimiter, such as a semi-colon (;), to be used, instead of the default delimiter, when creating a CSV file for transfer.

- All AS/400 applications support an additional authentication mechanism with stricter encryption and tighter security.

- All AS/400 Applications support password level caching.

- Support for the Hardware Management Console (HMC). RUMBA can now communicate with the host via HMC.

- All AS/400 Applications support enhanced support for STRPCCMD command.

New UNIX features

The new features specific to UNIX Display allow you to:

- Turn off the bell on VT420

- Use the keyboard Page Up and Page Down keys, instead of the scroll bar, to navigate the History pane

- Maintain a larger history list of recently performed operations

- Use Select All to select both the current page and the entire history buffer

Host-specific feature descriptions

This section describes the features specific to individual RUMBA host applications.

These feature descriptions are organized by host in tables with a listing of features and a short description of what each feature does.

RUMBA Mainframe Edition

Mainframe users perform the majority of their tasks using the Mainframe Display and Printer. With the Mainframe Display, they view host applications and transfer files. With the Mainframe Printer, they can route jobs from the mainframe printer queue to a Windows printer. Both the Mainframe Display and Printer use interfaces to connect to the host.

The following table provides summary descriptions for RUMBA Mainframe Edition standard features and interfaces.

RUMBA Mainframe Edition	
Standard features	**Description**
Display	Presents the traditional mainframe display terminals (3278/79) in a Microsoft Windows application: the RUMBA Page.
	Includes GDDM support, which makes working with IBM mainframe graphics similar to using Windows graphics packages.
	Users can run multiple host sessions, displaying and working with PC and host applications simultaneously.
File transfer	Supports host file transfer programs IND$FILE and SimXfer.
	Supports ASCII or binary transfers, Write Structured Field or Buffered data streams, EBCDIC-to-ASCII translation, and data compression.
	Provides DOS-based, batch, and drag-and-drop file transfer features.
Switching system keyboards	Allows switching keyboard displays as in Windows (ALT+SHIFT).
Printer	
RUMBA Mainframe Printer (3287 emulation)	Allows users to route jobs from the mainframe printer queue to a Windows printer.

Table 2-1   Feature descriptions for RUMBA Mainframe Edition

RUMBA Mainframe Edition	
PC printer queues	Lists the printer queues for all network and local printers set up in Windows Print Manager.
	Users can use PC Printer Queues to control Windows printers.
Print log	Lists documents that have printed through the RUMBA printer, including documents printed from host as well as from PC applications.
Interfaces	**Description**
Microsoft SNA Server	Connects to mainframe hosts through a suite of integrated services. SNA Server acts as an SNA gateway using two types of connections, client-to-server and server-to-mainframe.
MPTN (SNA over TCP/IP)	Connects to a mainframe host using SNA APPC to communicate over TCP/IP networks.
	Provides transparent access to functions such as mainframe printing and file transfer.
TN3270E	Uses a TCP/IP protocol stack to connect to a mainframe host via a Telnet server.

Table 2-1   Feature descriptions for RUMBA Mainframe Edition, (continued)

RUMBA AS/400 Edition

RUMBA AS/400 products offer many solutions. Users can view host applications using the AS/400 Display and transfer files using the AS/400 File Transfer program. With the AS/400 Printer, they can route jobs from the AS/400 printer queue to a Windows printer. The RUMBA AS/400 Display, AS/400 File Transfer, and Printer use an interface to connect to a host.

You, as the system administrator, can maximize the file, print, and database serving capabilities of the AS/400 with the AS/400 client applications.

The following table provides summary descriptions for AS/400 standard features, interfaces, and AS/400 client applications.

RUMBA AS/400 Edition	
Standard features	**Description**
Display	Presents the traditional AS/400 display terminal in a Microsoft Windows application: the RUMBA Page. Includes support for the Text-Assist function of OfficeVision/400.
	Users can run multiple host sessions, displaying and working with host applications simultaneously.
File transfer	
AS/400 File Transfer	Contains basic AS/400 file transfer capabilities.
Mainframe passthrough	Allows users to transfer files to and from an IBM mainframe host while working in the RUMBA AS/400 Display.
Automatic attachment of host files to email	Automatically forwards a file downloaded from the host to an email account.
Removal of End of File character before sending data.	Provides ability to remove the End of File character before sending data to the PC from AS/400.
Printer	
RUMBA AS/400 Printer (3812 printer)	Allows users to route jobs from the AS/400 printer queue to a Windows printer.
AS/400 printer queues	Lists the AS/400 printer queues to which a user has access.
	Available only on hosts with operating systems of OS/400 V3R1 or later.
PC printer queues	Lists the printer queues for all network and local printers set up in Windows Print Manager.
	Users can use PC Printer Queues to control Windows printers.
Print log	Lists documents that have printed on the PC printer, including documents printed from host as well as from PC applications.
Print Preview	Displays a picture of each printed document before sending it to the printer.
	Before printing documents, users can review page layout and formatting, change Windows printer properties, or save documents to print later.

Table 2-2   Feature descriptions for RUMBA AS/400 Edition

RUMBA AS/400 Edition	
Interfaces	**Description**
Microsoft SNA Server	Provides access to AS/400 hosts via a server PC running the Microsoft SNA Server software.
	This "light client" configuration removes communications processing chores from both the AS/400 host and the client workstation.
TN5250E	Uses a TCP/IP protocol stack to connect to an AS/400 host via a TN5250 server. Available for use with Display and Printer.
TCP/IP	Available for use with the AS/400 client applications File Transfer, Shared Folders, Data Queues, and the RUMBA AS/400 Optimized Server ODBC Driver. Connecting to an AS/400 over the TCP/IP interface requires Operating System 400 (OS/400) Version 3 Release 1 or later, which includes support for Optimized Server.
RUMBA Router	Workstations using the RUMBA Router can connect to AS/400s over a LAN, modem, or direct physical connection.
APPN	Connects to an AS/400 host by using an existing network connection as a node. For example, an APPN connection between a PC and an AS/400 host can be used to access another AS/400 host that does not have a direct physical connection to that PC.
MPTN (SNA over TCP/IP)	Connects to an AS/400 host using SNA or APPC to communicate over TCP/IP networks.
	Provides transparent access to functions such as AS/400 printing and file transfer.
AS/400 client applications	**Description**
Submit Remote Command	Allows users to start and control non-interactive programs on an AS/400 host without opening an AS/400 display session.
ODBC drivers	
RUMBA AS/400 Optimized Server ODBC Driver	Supports communications with databases over numerous protocols, including a direct TCP/IP connection.
	Can coexist with the IBM iSeries ODBC driver.

Table 2-2   Feature descriptions for RUMBA AS/400 Edition, (continued)

RUMBA UNIX-HP Edition

When using RUMBA UNIX-HP Edition, users perform the majority of their tasks with the host using the UNIX or the HP Display. This includes viewing host applications, transferring files, and printing from the host. The UNIX Display and the HP Display connect to a host over a TCP/IP interface.

The following tables provide summary descriptions for UNIX and HP standard features.

	Description
Display	Presents the traditional VT display terminals in a Microsoft Windows application supporting the whole range of VT terminals from VT 52 to VT 420 as well as VT340 ReGIS, Sixel, SCO ANSI, BBS ANSI and Tektronix 4010/4014 graphics support. Users can run multiple host sessions, displaying and working with host applications simultaneously.
File transfer	Supports Kermit, Text, and X-, Y-, Z-Modem file transfer protocols over all the supported interfaces. It supports a RUMBA software initiated mode where the user need only select the protocol and file to be transferred, and RUMBA software provides the underlying commands to successfully transfer the file.
Enhanced security	Supports both SSL 3.0 (Secure Sockets Layer) and SSH (Secure Shell) to allow users to securely access applications and transfer data between their desktops and UNIX systems, encrypting the session data stream to a host capable of supporting these protocols.
Switching system keyboards	Allows switching keyboard displays as in Windows (ALT+SHIFT).
Keyboard shortcut to open Split Display or History window.	Provides a keyboard shortcut (CTRL+SHIFT+Z) to open the Split display and History window on a UNIX Display.
Double-click auto select	When connecting to UNIX and double-clicking data, the data is automatically selected and copied to the clipboard. Then when you right-click at the new location the data is pasted without displaying the right-click, pop-up menu.
Printer	
Terminal-routed printing	Prints the display screen, selected text, and full color graphics, or routes print jobs from the host printer through your Windows print driver.
Interfaces	
Async	Connects to a remote UNIX host through a phone line and a standard asynchronous modem or directly to the host or terminal controller using an RS-232 direct connection.
Telnet	Connects to the UNIX host using the TCP/IP protocol.

Table 2-3   Feature descriptions for RUMBA UNIX-HP Edition, UNIX host

	Description
Display	Presents the traditional HP terminal types in a Microsoft Windows application. Users can run multiple host sessions, displaying and working with host applications simultaneously.
File transfer	Supports Kermit, Text, and Xmodem, Ymodem, Zmodem file transfer protocols over all the supported interfaces, and a proprietary protocol to HP3000 servers running the MPE operating system. It supports a RUMBA software initiated mode where all the user needs to do is select the protocol and the file to be transferred and RUMBA software will provide the underlying commands to successfully transfer the file.
Printer	
Terminal-routed printing	Prints the display screen or selected text, or routes print jobs from the host printer through your Windows print driver.
Interfaces	
Async	Connects to a remote HP host through a phone line and a standard asynchronous modem, or directly to the host or terminal controller using an RS-232 direct connection.
HP NSVT	Connects to an HP host using the proprietary HP protocol for Network Services Virtual Terminals (NSVT).
Telnet	Connects to the HP host using the TCP/IP protocol.

Table 2-4   Feature descriptions for RUMBA UNIX-HP Edition, HP host

Shared feature descriptions

This section describes the features shared between the RUMBA products. Features, or components, are shared because the RUMBA architecture is based upon Microsoft's ActiveX component technology. The use of common components results in a common user interface and predictability in the way a RUMBA product works. Because the user sees the common user interface and experiences the same basic functionality across RUMBA products, RUMBA common components reduce end-user training, saving time and resources. The following table lists some of the newest standard features shared by the host-specific products.

New Feature	Description
Enhanced Security through SSL/SSH	Supports both SSL 3.0 (Secure Sockets Layer) and SSH (Secure Shell) to allow users to securely access applications and transfer data between their desktops and Mainframe, AS/400 and UNIX systems, encrypting the session data stream to a host capable of supporting these protocols.
Multiple HLLAPI sessions originating from the same profile.	Permits running multiple HLLAPI sessions originating from the same profile. This is an additional enhancement to the API options currently available in RUMBA.

Tools

All RUMBA products contain the following tools:

• End-user productivity tools

• RUMBA software installation and maintenance tools

• Developer tools

More complex and powerful task automation can also be provided by the Script Editor and Script Player applications, provided separately.

End-user productivity tools

RUMBA software applications contain tools that help end users attain a higher level of efficiency by eliminating time-consuming file and application manipulation. For example, with these tools, your users can:

• Print or mail a copy of a host screen right from the RUMBA software display

• Copy from a host database and paste it into another application, like a spreadsheet or word processor. The Paste Link facility automatically updates the data in a Windows application whenever both it and a RUMBA session to the host are open.

As a system administrator, you can help your users by:

• Automating log-on procedures by creating macros for them

• Setting up batch files that they can use to print multiple host screens to a PC printer (Print Area Setup)

• Recording all the information a user enters into unprotected fields on a standard screen, thus building a history file. When the user accesses the screen and starts to enter information, RUMBA software automatically fills in the recorded information using the QuickAssist feature.

Many of these features can help personalize the workplace. For example, you and your users can change the look of a RUMBA display by using watermarks or customizing the display.

The following table references the more important end-user tools for the RUMBA suite. The table lists the tools, then provides corresponding RUMBA menus and commands, and brief descriptions.

End-user productivity tools		
Tool	**Menu/Command**	**Description**
RUMBA Desktop		A tabbed interface to RUMBA that makes it easy to manage several different sessions at once, even to different hosts.
Profiles	File/New, Open, Save, Save As, Properties Options/Profile	Saves RUMBA customized display/printer and interface configuration information. Using profiles, a user can tailor a RUMBA session for a specific host or application and save it for re-use. Session Profiles save information relating to a single host session, whereas Desktop Profiles save a set of Session Profiles.
Print screen	File/Print, Print Preview	Specifies how to print a screen within the RUMBA window. Users can print to the Clipboard, current Windows printer, or to a file. Users can also designate printers and fonts, and view how the screen will look when printed.
Send screen	File/Send Screen	Activates the user's installed mail or messaging system. Users can send a screen without exiting the RUMBA window.
Print Area Setup	File/Print Area Setup	Sets up batch files to print multiple host screens to a PC printer.
Edit Clipboard	Edit/Undo, Cut, Copy, Paste Options/Edit	Supports data cutting, copying, and pasting activities.
Paste Area Setup	Edit/Paste Area Setup	Sets up host screens to receive data pasted from the Windows Clipboard. Using this feature, users can paste data from a third-party application into multiple screens of a host application.
Title Bar	View/Title Bar	Customizes the title bar text for the RUMBA window.
Configurable toolbars	View/Toolbars	Customizes the RUMBA toolbar. You can create and modify toolbars to suit user needs and preferences. *Note: This is currently available only in the Classic interface.*
Watermark	View/Watermark	Displays an image in the background of the current RUMBA window.
Status bar	View/Status Bar	Toggles the 3D status bar on and off.
Customized display	Options/Display	Customizes the look of the RUMBA window: fonts, colors, cursor settings, and more.
Keyboard mapping	Options/Keyboard	Maps special terminal keys to the PC keyboard. Users can also select different keyboards and international keyboard options.

Table 2-5   End-user productivity tools feature descriptions

End-user productivity tools		
Tool	**Menu/Command**	**Description**
Capture Screen	Options/Capture Screen Setup, Capture Screen	Captures the current RUMBA screen in a specified .txt file (or capture.txt if no file is specified).
Macros	Tools/Run Macro, Record Macro, Edit Macro, Macro Properties	Records a series of actions, such as keystrokes and commands. Once users record a macro, they can play it back to automate routine tasks. Users can assign macros to a Hotspot (see below), a RUMBA toolbar button, or a key combination on the keyboard.
Hotspots	Tools/Hotspots	Makes any non-protected text on a host screen into a Hotspot and associates that text with a macro. When the user clicks on the Hotspot, the macro runs.
Customized menus	View/Toolbars	Customizes RUMBA menus. For example, users can create new menu items that start non-RUMBA applications. *Note: This is currently available only in the Classic interface.*
Online help	Help	Provides detailed instructions on how to use RUMBA. Users can browse the Contents for information, or search for a specific term.

Table 2-5   End-user productivity tools feature descriptions, (continued)

RUMBA software installation and maintenance

Connection tools

The most common way to connect RUMBA software to a host is by selecting and configuring an interface from the RUMBA display or printer. However, if you are connecting to an IBM Mainframe or AS/400, there are additional tools available to you. The following table provides descriptions for the other available connection tools.

	Description
APPC Configuration Utility	Provides advanced configuration options for most Mainframe and AS/400 interfaces. Allows for the configuration of the following APPC items: Remote and local logical units (LUs), Modes, transaction programs (TPs), CPI-C side information, and conversation security for TPs.
AS/400 Communications utility	Used primarily to configure connections for Shared Folders, Data Queues, Submit Remote Command, and AS/400 file transfers.

Table 2-6   Other connection tools feature descriptions

Diagnostic/Troubleshooting tools

Use these diagnostic tools (available with all products) to monitor and troubleshoot RUMBA connections on your network.

Application	Description
Trace Console	Traces and records communication sessions. Specifically: • Data streams from the Mainframe Display and Printer, AS/400 Display and Printer, UNIX Display and HP Display • SNA communications • RUMBA Display APIs, such as DDE, EHLLAPI, and WinHLLAPI; EHNAPPC • Host System APIs, such as Data Queues, Shared Folders, AS/400 file transfers, and Submit Remote Command
RUMBA Communication Monitor	Displays an in-depth look at the connections of a workstation. ***Note:*** *Not available for RUMBA UNIX-HP Edition.*

Table 2-7   Diagnostic/Troubleshooting tools feature descriptions

Developer tools

- The AS/400 client applications, such as File Transfers, have APIs associated with them. Additionally, the Submit Remote Command is available as ActiveX controls.

- RUMBA PC-to-Host consists of a family of ActiveX controls and RUMBA Web-to-Host consists of both ActiveX controls and

JavaBeans. You may use these ActiveX controls and JavaBeans to create new applications using languages such as Visual Basic, C++, and Java. Information and samples for using these components can be found on the Micro Focus web site.

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