



*System  
Administrator Kit*

*Other Connection Tools  
Guide*

*RUMBA 8.0*



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# 1 Other Connection Tools Overview

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With RUMBA Tools, you have a set of utilities designed to boost your productivity. This guide provides overviews and tips for the most commonly used RUMBA Tools.

- RUMBA APPC Configuration utility
- Administrator Override File
- RUMBA AS/400 Communications utility
- RUMBA Communication Monitor

## ► Note

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*For details on additional RUMBA Administrative Tools, see the RUMBA Utilities and Advanced sections in the online help.*

The following table summarizes the purpose and supported hosts for each of these administrator utility.

Tool Name	Tool Function	Applicable Hosts		
		M/F	AS/400	HP UNIX
RUMBA APPC Configuration utility	Simplify the process of creating connections throughout your network.	X	X	
RUMBA Administrator Override File	Implement a single configuration file for multiple users and reduce the time required for setting up and troubleshooting workstations.	X	X	

*Table 1-1 RUMBA utilities overview*

Tool Name	Tool Function	Applicable Hosts		
		M/F	AS/400	HP UNIX
RUMBA AS/400 Communications utility	Simplify the process of creating communication sessions throughout your network.		X	
RUMBA Communication Monitor	A workstation-connection monitor you can use to analyze the current status of each configured link.	X	X	
RUMBA Trace Console	Simplify the mechanics of tracing communication sessions to improve your efficiency in troubleshooting and solving network problems.	X	X	X

*Table 1-1 RUMBA utilities overview, (continued)*

## 2 RUMBA APPC Configuration Utility

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The APPC Configuration utility assists you in building a configuration file for the RUMBA SNA engine. This configuration file defines the elements listed below. Each of these elements is discussed in this chapter.

- [Connections](#)
- [AS/400 modes](#)
- [Remote and local logical units](#)
- [CPI-C side information file](#)
- [Transaction programs](#)
- [Conversation security](#)

The following figure illustrates the RUMBA APPC Configuration utility main display:

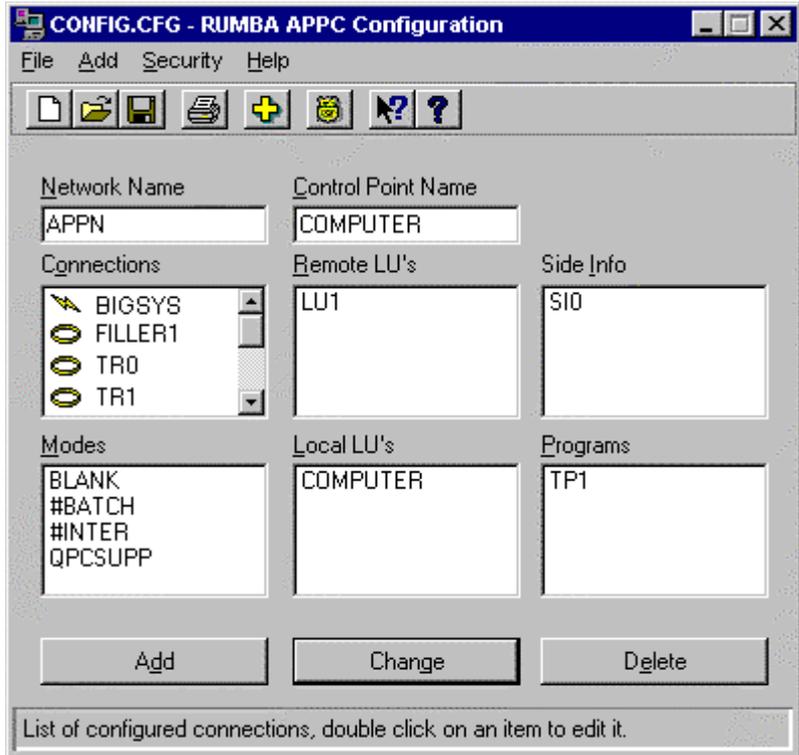


Figure 2-1 RUMBA APPC Configuration utility

Because the RUMBA APPC Configuration utility uses a feature-rich graphical user interface, when you make an addition, change, or deletion you only need to select a box and click a button.

The RUMBA APPC Configuration utility saves configuration parameters in a file with a **.cfg** extension. You can save as many configurations as you need for distribution later, or you can build an administrator override configuration file for your users.

With the RUMBA APPC Configuration utility, you can set values for different local and remote environments. For Common Programming Interface-Communications, you can add or modify side information entries. You also have the option of assigning User IDs and Passwords to incoming remote transaction programs.

## Connections

Use the RUMBA APPC Configuration utility to name connections and add interfaces quickly and without error.

Working in the background, the RUMBA APPC Configuration utility creates a local LU name (logical unit name) for your connection from your network name and control point name. As a default, the RUMBA APPC Configuration utility inserts your computer name for the control point name.

The RUMBA APPC Configuration utility allows you to easily add an interface connection. The RUMBA APPC Configuration utility's Connections box uses a simple graphics scheme that allows you to visually identify the interface used for your connection.



Figure 2-2 Connections box

### ► For more information

*Help Topic: Connecting to a host > Connecting to an AS/400 host (or Connecting to a Mainframe host) > SNA Server > The APPC Configuration utility > RUMBA APPC configuration utility > Adding connectivity to your configuration file > To add a connection*

## International character set translation

The RUMBA APPC Configuration utility works with the international character set specified in the regional settings for your workstation. This translation is accomplished using tables that reside in the Program Files\Micro Focus\RUMBA\System\Charsets directory after RUMBA software is installed.

These tables (referred to as codepage tables) work with RUMBA software as follows:

- The character set that RUMBA software uses is determined by the country that is specified on the Regional Settings Properties dialog box. Access this dialog box via the Windows Control Panel.
- EBCDIC to ANSI translation (or mapping) for your workstation is based on the codepage table currently in use.
- The Program Files\Micro Focus\RUMBA\System\Charsets directory contains files named **chr2exxx.gen**, where “XXX” is the locale code (for example, 037 is the code for USA).

### **Modifying character mapping**

To modify the character mapping for a specific language, modify the corresponding **chr2exxx.gen** file using a regular text editor. There are no registry settings or **.ini** file settings to make or change.

## AS/400 modes

AS/400 mode descriptions define a number of session characteristics. These characteristics include the:

- Maximum number of sessions
- Maximum number of conversations
- Pacing values for request and response units

By using the mode description as an APPC system object, you can reduce the number of separate configuration definitions. The RUMBA APPC Configuration utility offers several pre-configured modes. When in doubt, QPCSUPP is the AS/400 default, although #BATCH offers the best compromise in communication performance and cost.

## Remote and local logical units

The RUMBA APPC Configuration utility simplifies the task of managing remote and local logical units. A local logical unit (LU) represents the local workstation, while the remote logical unit represents the local workstation conversation partner.

## Logical unit properties

Because the concept of the LU has evolved, it is easier to understand the LU by looking at its properties:

- Sessions have LUs at each end
- To establish a session, a client must have the server's LU name, which is known as the Remote LU
- In a hierarchical network, an LU has a defined global address that it uses to route data
- You can assign different LU names to a host's different subsystems

### Note

*An LU name does not signify a machine or program name, it designates the role a machine or program has within a network. For example, an LU name can designate a network server.*

## Logical unit configuration tips

Here are a few tips to consider when you use the RUMBA APPC Configuration utility to add or change logical units:

- For a computer client, the LU name default can be the computer name. The RUMBA APPC Configuration utility does this automatically in the configuration process.
- For a server, consider using an LU name alias based on the function, rather than the computer name. This minimizes disruption if the function is moved to another computer.
- When you are connected to a subarea SNA network, finding an LU name is problematic because you do not have network node services. In this case, you must configure a remote LU and associate it with a route.

## CPI-C side information file

The RUMBA APPC Configuration utility gives you a powerful tool that you can use to easily create and edit side information files. Previously, when using APPC/LU 6.2 verbs, application programmers had to supply

the parameters that described the network environment. With CPI-C, these parameters are called out from a side information file.

The RUMBA APPC Configuration utility uses a straightforward process to create a side information file. One thing to remember is that the side information file is the last part of the configuration process. First you must define the:

- Network environment
- Session characteristics
- Remote LU information

## Transaction programs

You can add a transaction program by naming and associating it with an executable file or command line. This transaction program (TP) can then have:

- A path to the executable program
- An auto-start option
- Optimum security
- Queueing
- Timeouts
- PreLaunch Counts

The transaction programs you add with the RUMBA APPC Configuration utility should fulfill the APPC/LU 6.2 requirements of:

- Being invoked by the LU 6.2 ATTACH call
- Using conversations to communicate with a remote transaction program
- Establishing many conversations with one or more remote transaction programs using distinct sessions

## Conversation security

If you have secured the local transaction program (TP), use the RUMBA APPC Configuration utility's Conversation Security feature to assign user IDs and passwords to incoming TPs.

When an incoming TP attempts to allocate a conversation with the local TP, the local TP reads the User ID and password. If there is a match, the incoming TP is allowed to access the local TP.



# 3 Administrator Override File

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A high priority for any system administrator is the standardization of system configurations. When you create an administrator override file, you provide a set of well-defined parameters that each user can access. This tool can significantly reduce the time spent setting up and troubleshooting workstations.

## Administrator override file definition

How does the administrator override file work? An administrator override (Admin Override) file is a configuration file you create and then place on the network. Your users can access this administrator override file for connection information to SNA-type machines. If the connection information changes, you can use the administrator override feature to make one central change.

For example, when you introduce a new AS/400 to your network, you only have to add the AS/400 information to one administrator override configuration file on your network. The next time a user pulls up the configuration dialog in the AS/400 display or RUMBA APPC Configuration utility, the new AS/400 appears, configured and ready to go.

**► Note**

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*The administrator override file does not contain the control point name that will be used for the connection; this name comes from the user's machine.*

## Administrator override file function

How does the administrator override file work? The RUMBA SNA engine, AS/400 Display, and RUMBA APPC Configuration utility all have the ability to look at two configuration files at the same time and extract, as necessary, pertinent information from each file.

### ► Note

*Mainframe connection definitions are **not** supported by the administrator override file. To understand why this is the case, consider the following:*

- *Connection definitions for the RUMBA Router and AS/400 Display are sharable objects. That is, the parameters for an AS/400 connection definition and the AS/400 Remote LU Definition can be common to all users globally. The configuration parameters that are specific to a single workstation are located in the local LU definition.*
- *Connection definitions for a mainframe connection are not sharable objects. As an example, for a Mainframe Display DLC connection, each user must have an individual and unique PUID as part of the connection definition. If you tried to create an administrator override file for this connection, all users would share a single block ID and PUID, and only one user could connect at a time.*

Basically, when you configure connections to an SNA-type server, the Control Point Name (also known as the “PC Name” in the AS/400 environment) is what makes one workstation unique from another workstation. The administrator override file contains the link information; this includes the network name, destination address, remote LU, side information, and more. Use the local configuration file to store information applicable only to the workstation.

## Local connection configuration

If the administrator override file is set, can you still configure connections locally? Yes! You can enable Admin Override through the RUMBA APPC Configuration utility and still create link configurations that you store on the workstation in a local configuration file. However, there are restrictions. You are able to configure local connections only when they have a different connection name and remote LU alias from any other link residing in the administrator override file. The reason for this is described in the following section on the precedence of configuration files.

Also, similar to document printing, the AS/400 display shows only connections configured in the administrator override file, and the user can connect only to these administrator override configured connections.

## Configuration files precedence

The locally-administered configuration file is referenced in the registry as `HKEY_LOCAL_MACHINE\Software\WALLDATA\ConfigFile`

The configuration files exist so users can provide their configuration preferences within the communications environment.

The system-administered configuration file is referenced in the registry key as

`HKEY_LOCAL_MACHINE\Software\WALLDATA\Sna\AdminOverrideConfigFile`.

You can use the administrator override configuration file as a set of configuration elements that will override all other configurations. Any configuration element you specify within `AdminOverride-ConfigFile` will then take precedence over the corresponding element contained in `ConfigFile`. This means that if collisions occur between the elements of the `ConfigFile` and `AdminOverrideConfigFile`, the winner will be the `AdminOverrideConfigFile`.

For example: if `ConfigFile` contains an MPTN link definition named `NETRED` and `AdminOverrideConfigFile` contains an SDLC link definition named `NETRED`, then `AdminOverrideConfigFile`'s SDLC link definition will replace the `ConfigFile`'s MPTN link definition.

## Administrator override file creation

Creating an administrator override file that multiple users can access is not very different than creating a local configuration file for one user. The only difference is that you store the administrator override file on a shared network drive.

1. From any machine that already has RUMBA software installed, configure the necessary connections using the RUMBA APPC Configuration utility.
2. Save the file as you normally would for a local machine (note the file name in the title bar).

3. Make sure that each connection is valid by connecting to each link configured.
4. Once you are confident that you have a working configuration file, copy the file to a shared directory on the network. Make sure that each intended user has access to this drive.

**► Note**

*Change the Administration Override configuration file's attributes to Read Only: this will prevent a user from accidentally corrupting the file.*

## Editing existing administrator override files

If an administrator override configuration file is already in place and is currently being accessed by users, we recommend the following as the safest editing method.

1. Using a file manager utility, copy the current administrator override configuration file and rename it.
2. Take off the Read-only attribute if it is present, so that the changes you make can be saved.
3. From the RUMBA APPC Configuration utility menu bar, choose Open. Select your newly created file. Make changes as necessary.
4. Save your new administrator override configuration file.
5. Once you are confident that you have a working configuration file, copy the file to a shared directory on the network and replace the existing administrator override configuration file.

**► Note**

*Change the Administration Override configuration file's attributes to Read Only: this will prevent a user from accidentally corrupting the file.*

## To set user access to administrator override file

1. From the RUMBA Administrative Tools program group, start the RUMBA APPC Configuration utility.
2. From the File menu, choose Advanced.

3. Click “Use Administrator Override Configuration.”
4. Enter the full path of the Configuration file that you want the users to access. You can also use the Browse feature to find the file and its path name.
5. You can ensure that the next person will get the same configuration by using the setting “Make configuration available to all users of this machine.” This will use the \\HKEY\LOCAL\_MACHINE\ registry instead of the \\HKEY\CURRENT\_USER registry.
6. From the File menu, choose Save.
7. Close the RUMBA APPC Configuration utility.

When you specify the path, we strongly recommend that you use the Universal Naming Convention (UNC) instead of a mapped drive letter. If you use the UNC, the connection is not reliant on a mapped drive letter that could be overwritten or corrupted.

### Note

*If you use the Browse feature, the path is returned in UNC format.*

*If the RUMBA APPC Configuration utility cannot find the file you specified in the path for the administrator override file, a warning is displayed. The situation may be that the workstation is not currently attached to the network, or that the user does not have permission to access the server that you specified in the path. If this is the case and you are confident that the path is correct, choose to continue and exit.*

*From the operating system’s ComputerName, the RUMBA APPC Configuration utility extracts a default Control Point Name for the local configuration file. If you wish, you can specify another Control Point Name by simply altering the field. Any changes you make to the Control Point Name are also automatically made to the Local LU name.*

*It is necessary that you use a .cfg extension on the file name. If you do not specify an extension, the RUMBA APPC Configuration utility will append .cfg to the file name. The RUMBA APPC Configuration utility supports both 8.3 format file names and long file names.*

## Assessing workstation setup

Is the workstation you just set up configured properly? The best tool to use in determining if you have set up the workstation correctly is the RUMBA Communications Monitor.

### ► For more information

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*Chapter 5: RUMBA Communication Monitor*

If you selected the APPC Client package install, the RUMBA Communications Monitor is installed with a program icon in the RUMBA Administrative Tools program group. If the APPC Client was not installed, the program will still be installed, but no icon is placed in the group. If this is the case, you can run the program from the Program Files\Micro Focus\RUMBA\System subdirectory. The file name is **nof.exe**.

The RUMBA Communications Monitor starts the RUMBA SNA engine and displays the information that the RUMBA SNA engine interprets. If the RUMBA Communications Monitor displays the connections that you configured in the administrator override file, then you are off to a good start.

## Administrator override file limitations

While the RUMBA SNA engine has the ability to use RUMBA administrator override configuration files, the RUMBA AS/400 display and AS/400 printer are the only display-type services that currently use this feature.

The AS/400 Connection Configuration dialog allows the user to see and connect only to links that you configured in an administrator override configuration file. Local files cannot be accessed.

### ► Note

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*If your company creates transaction programs that use the RUMBA SNA engine, then the administrator override file should work fine.*

## Configuration-free workstations

With the RUMBA Administrative Tools, you can have self-configuring workstations. By using SMS or a batch file, each new workstation will look for its:

- Administrator override file

- Local configuration file



# 4 RUMBA AS/400 Communications Utility

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You can use the RUMBA AS/400 Communications Utility to locate other AS/400 systems and to configure or change host connections and link interfaces for the:

- Application Program Interface (API)
- Submit Remote Command application and API

## RUMBA AS/400 Communications Utility overview

With this utility, the configuration settings are saved in a **.ehn** file. You can save multiple configurations under different **.ehn** file names for later use. The **.ehn** configuration file can be especially useful when you are setting up data queues for end users who do not have RUMBA AS/400 display or printer capability.

### ► For more information

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*RUMBA Administrative Tools; Using the RUMBA AS/400 Communications Utility*

Figure 5-1 illustrates the main dialog box of the AS/400 Communications Utility.

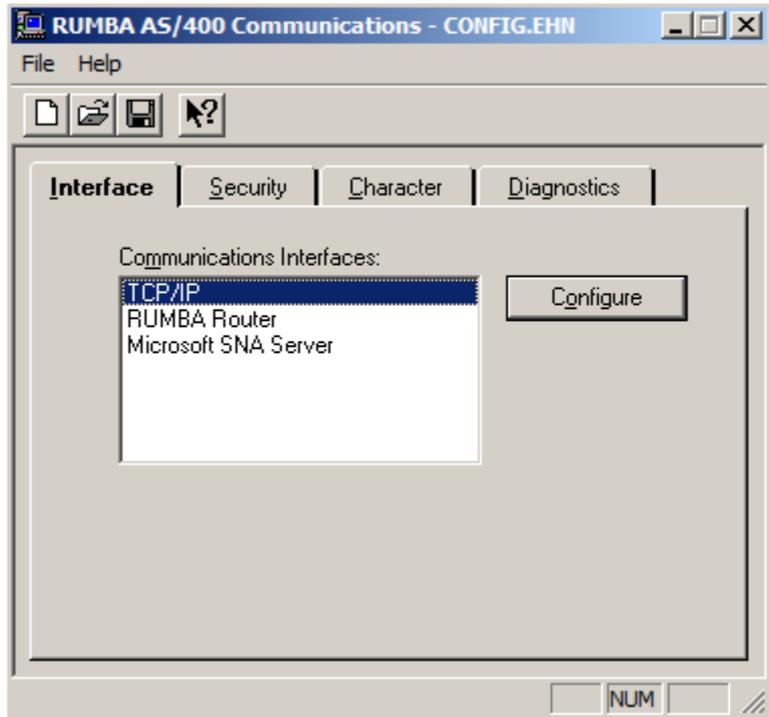


Figure 4-1 RUMBA AS/400 Communications Utility

Table 5-1 maps the major tasks you perform with the AS/400 Communications Config utility to the appropriate tab on the dialog box.

	Go to the:
Configure communication interfaces	Interface tab
Configure link interfaces	Interface tab
Add AS/400 sign-ons	Security tab
Select a foreign language's host character set	Character tab
Display APPC error messages	Diagnostics tab

Table 4-1 Configuration summary

► **Note**

*If you use RUMBA AS/400 Communications to configure EHNAPPC, then all non-display and non-printer sessions will use the same configuration parameters.*

*For example, if you configure EHNAPPC to connect to BIGSYS via APPC token ring for Data Queues, all other hosts (except for Display, Printer, and possibly RDA) will connect via APPC token ring.*

## RUMBA AS/400 Communications Utility link configuration

To use the RUMBA AS/400 Communications Utility to configure links:

1. Click the Interface tab.
2. Select a communications interface, then click Configure.  
For specific information on configuring, refer to the help section for the selected interface, found under Connecting to a host.
3. Select a system name, then click Add.
4. Select a link.
5. Click the link interface tab, then add or change configuration values as needed.
6. From the File menu, choose Save, or click .
7. By default, the configuration is saved as an .ehn file.

► **Note**

*Click the Advanced tab to specify a logical unit with a name different than your system's.*



# 5 RUMBA Communication Monitor

The RUMBA Communication Monitor is a valuable utility that helps you monitor, troubleshoot, and optimize your network. Also, you can view non-configured system links.

The RUMBA Communication Monitor displays what the RUMBA SNA engine finds. The left pane shows that the APPN link is not connected and the right pane gives detailed information about the link.

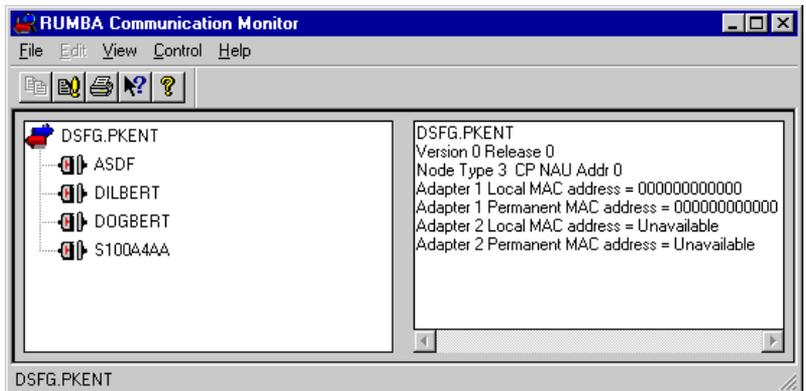


Figure 5-1 RUMBA Communication Monitor

## Note

Even though you can use the RUMBA Communication Monitor to start and stop links (either by the menu or by right clicking your mouse), we recommend that in normal circumstances (when you have a transaction program in process or an open RUMBA Display session) you start and stop links and sessions from your RUMBA display session.



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