

InfoPrint 4247 Serial Matrix Printers



InfoPrint Solutions Company

Remote Printer Management Utility For InfoPrint Serial Matrix Printers

Note:

Before using this information and the product it supports, read the information in "Notices" on page 31.

First edition (August 2007)

Internet

Visit our home page: <http://www.infoprint.com>

You can send comments by e-mail to printpub@us.ibm.com or by mail to:

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The Remote Printer Management Utility

The Remote Printer Management Utility (RPMU) is a software tool for network administrators that allows the configuration and control of InfoPrint Solutions Company printers remotely connected to the Ethernet LAN. The software can be downloaded from our website:

www.infoprint.com

With this tool the installed printers may be controlled, configured and organized easily.

The main features are:

Device Discovery	Searches for the devices within a range of IP addresses.
Printer Organization	The printers connected to the network can be organized into logical groups in a hierarchically structured tree.
Printer Status Report	Checks the printer's status and reports alarms.
Printer Configuration	The remotely connected printers may be configured as needed from the administrator's workstation.
Firmware Updating	Provides a firmware downloading function to upgrade both the base and the LAN card firmware.
Remote Operator Panel Management	Provides a virtual operator panel for the remotely connected printer at the administrator's workstation that allows to perform all functions normally achieved pressing the operator panel keys.

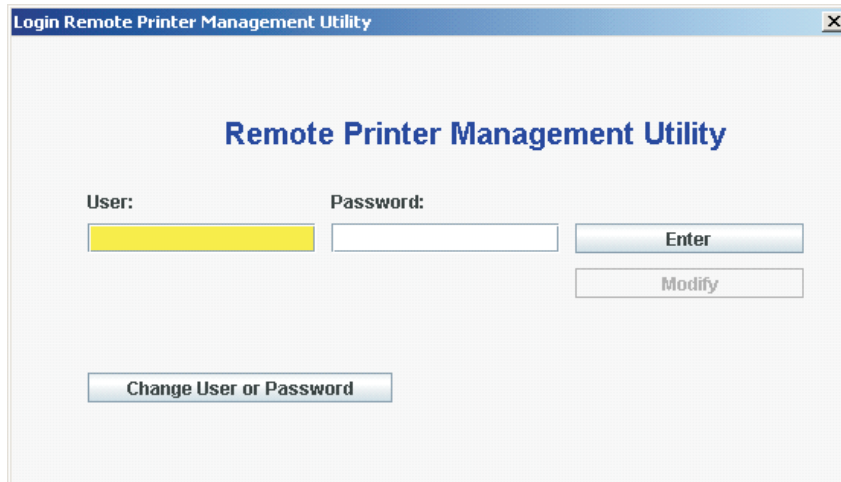
The RPMU also provides the basic status management for third-party printers compliant to the standard MIB objects.

Operating System Compatibility

The RPMU is a Java based application and can be run on any platform supporting the Java Run Time Environment version 1.5 or newer.

Installing the RPMU in the Windows environment

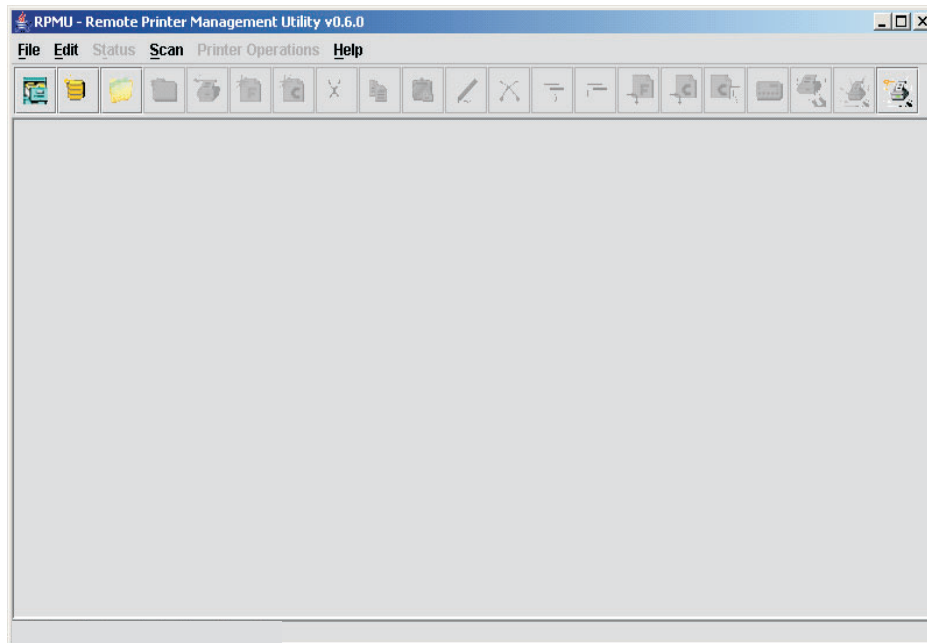
1. Run the SETUP.exe file to install the java SDK and follow the instructions.
2. Run RPMU (executable Jar file) from the shortcut on desktop. The RPMU displays the Login window.



HC0PF091

Figure 1. The RPMU Login Window

3. The Default User is "admin"; the Default Password is "admin"; and after the login and password entry the main window appears:

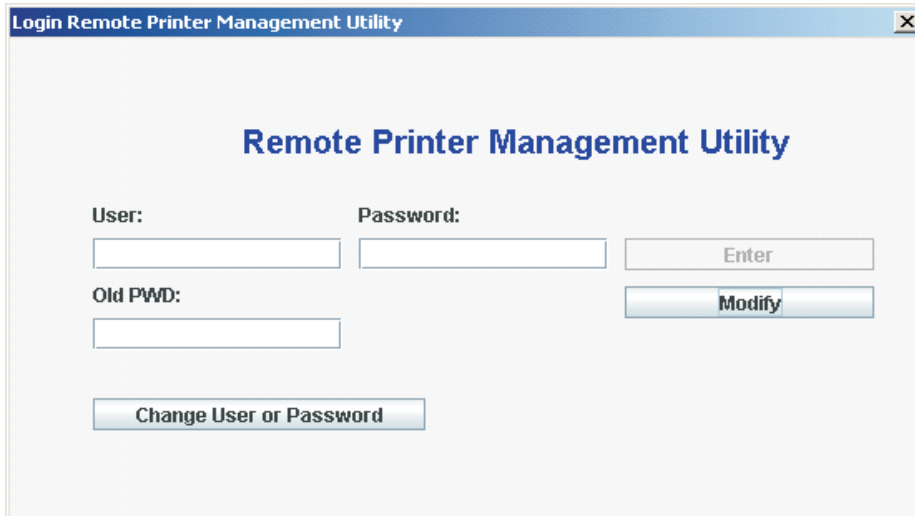


HC0PG092

Figure 2. The RPMU Main Window

How to change your Password

To change your Password select “Change User or Password” in the Login Dialog.



The screenshot shows a dialog box titled "Login Remote Printer Management Utility". Inside, the main heading is "Remote Printer Management Utility". There are three input fields: "User:", "Password:", and "Old PWD:". To the right of the "Password:" field is an "Enter" button. To the right of the "Old PWD:" field is a "Modify" button. At the bottom left, there is a "Change User or Password" button.

HC0PG093

Figure 3. The Login Dialog

Enter the new **User** or new **Password** and **Old PWD** in the appropriate text boxes. Select the **Modify** button.

The RPMU Main Window

The RPMU Main Window, Figure 4 on page 4, is divided into three main parts:

Menu Bar	Contains the four menus (File , Edit , Status , Scan , Printer Operation and Help) used to control the functions of the program.
Tool Bar	Contains the icons of the shortcuts for the most commonly used menu functions.
Printer Database Window	Displays an organized list of printers, configuration files, and firmware download files.

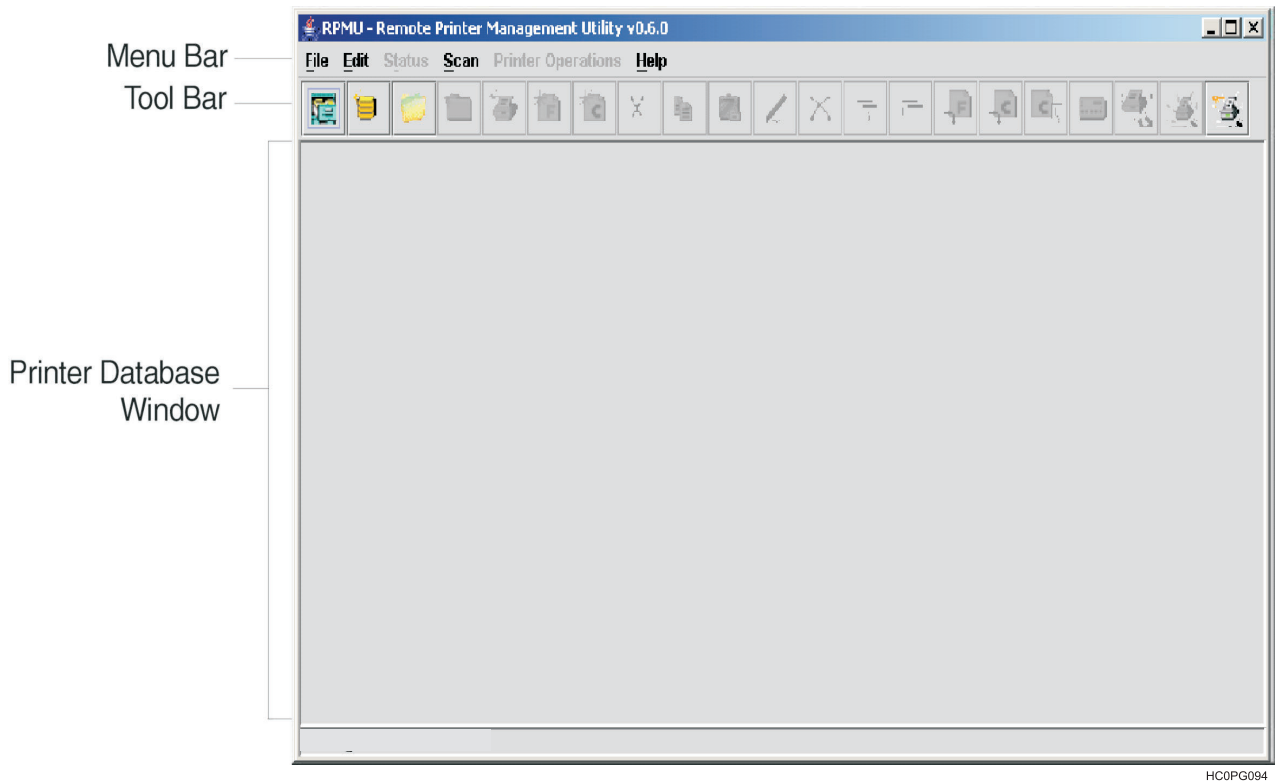


Figure 4. RPMU Main Window

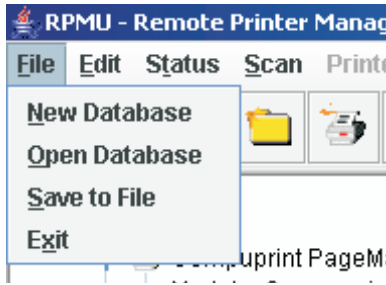
The Menu Bar

The RPMU menu bar is located at the top of the main window and provides the following items:

- File Menu
- Edit Menu
- Status Menu
- Scan Menu
- Printer Configuration Menu
- Help Menu

The File Menu

The **File** menu offers the main file management functions for the printer databases.



HC0PG095

Figure 5. The File Menu

New Database Creates a new database file.

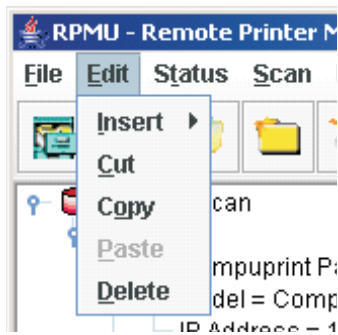
Open Database Opens an existing database.
Note: Only one database can be opened at a time. If a database is already open, you are asked to save changes to the open database before creating the new one.

Save To File Saves the current database file. The program prompts you to enter a name for the file.

Exit Ends the RPMU program.

The Edit Menu

The **Edit** menu allows you to manage the printer database contents: folders, printer devices, configuration files, or firmware download files.

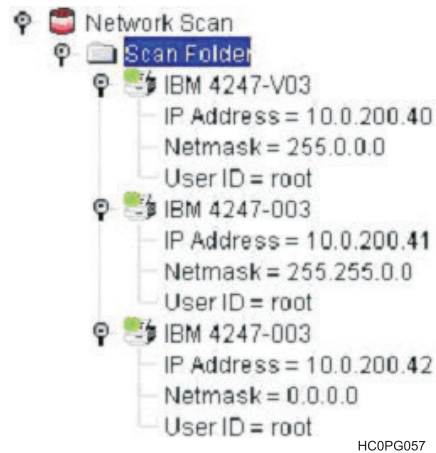


HC0PG108

Figure 6. The Edit Menu

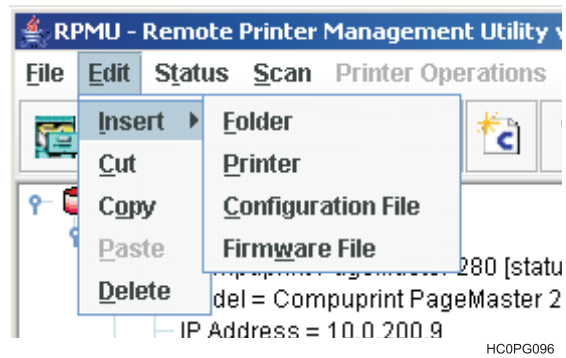
Insert Add a folder, a printer device, configuration file, or firmware download file in a previously selected folder. A corresponding icon is placed in the folder:

This example shows the database **Network Scan** containing the folder “Scan Folder” with some printer icons:



The **Insert** item offers these selections:

- Folder
- Printer
- Configuration File
- Firmware File



Folder

You are prompted for the name of the new folder. Enter the folder name and select **OK**.



Printer

The **Printer** dialog displays to record printer identification values and network parameters. The data entry dialog is divided into two different parameter groups: **Identification** and **Net**.

The screenshot shows a dialog box titled 'Printer' with a close button (X) in the top right corner. It has two tabs: 'Identification' (selected) and 'Net'. Under the 'Identification' tab, there are four input fields: 'Name', 'Model', 'User', and 'Password'. At the bottom of the dialog are two buttons: 'OK' and 'Cancel'.

HC0PG098

- Name** Enter the name for the printer.
- Model** This is a read-only field. The printer model is inserted by the program as soon as it has discovered the printer identified by the IP address (in the **Net** parameter group).
- User** Read only – name of printer's user
- Password** Read only – the encrypted password of the user

The **Net** parameter has the following attributes:

The screenshot shows a dialog box titled 'Printer' with a close button (X) in the top right corner. It has two tabs: 'Identification' and 'Net' (selected). Under the 'Net' tab, there are five input fields: 'IP Address' (10.0.200.22), 'Netmask' (255.255.0.0), 'Port', 'Timeout', and 'Workgroup' (IBM_Group). At the bottom of the dialog are two buttons: 'OK' and 'Cancel'.

HC0PG099

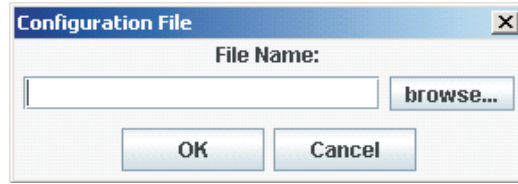
- IP Address** Enter the printer's IP Address in this field.
- Netmask** Enter the Netmask that identifies the printer connection.
- Port** Enter the port number.
- Timeout** Enter the timeout value.
- Workgroup** Enter the printer's Workgroup in this field.

As soon as the new printer data are confirmed, the RPMU tries to contact the printer to update its current status.

Note: If the printer is not found within the time indicated as Timeout, the RPMU displays the printer in the database as "not ready".

Configuration File

Selecting **Configuration File** displays the following dialog. Enter the name of the configuration file, or look for it on your computer by selecting the **Browse** button.

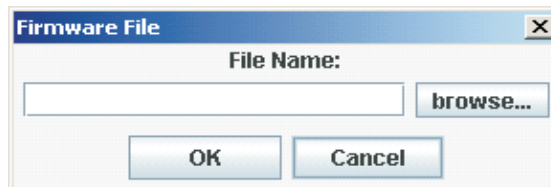


HC0PG100

Pressing **OK** allows the RPMU to insert the selected configuration file into the current folder. See “Inserting a Configuration File into a Folder” on page 17 and “Configuring the Printers in the Database” on page 18.

Firmware File

Selecting **Firmware File** displays the following dialog. Enter the name of the firmware file you want to download directly, or look for it on your computer by selecting the **Browse** button.

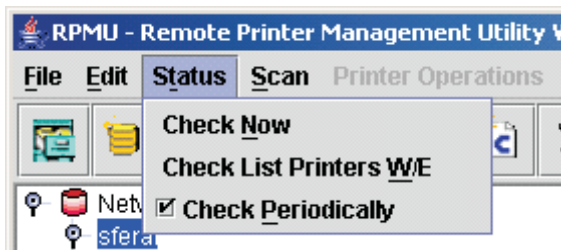


HC0PG101

Selecting **OK** allows the RPMU to insert the selected firmware file into the current folder. See “Inserting a Firmware File into a Folder” on page 16 and “Updating the Printer’s Firmware Version” on page 26.

- Cut** Selecting **Cut** removes the selected item (folder, printer, or file) from the database and copies it into the paste buffer.
- Copy** Selecting **Copy** copies the selected item into the paste buffer. The selected item remains unchanged.
- Paste** The item inserted in the paste buffer (with the **Cut** or **Copy** function) is put in the selected position in the database tree.
- Delete** The selected item is permanently removed from the database.

The Status Menu

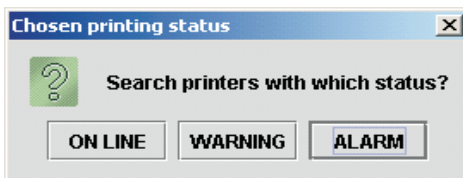


HC0PG102

Figure 7. The Status Menu

- Check Now** Selecting **Check Now** performs a check on all printers connected to the network and updates all the printer status.
- Check List Printers W/E** Selecting **Check List Printers W/E** performs a check on all printers connected to the network and shows only the printers that are in **ONLINE**,

or **WARNING**, or **ALARM** status as for the user selection.



HC0PG103

Check Periodically

Check Periodically enables or disables status polling. When **Check Periodically** is selected the RPMU performs an automatic check every about 10 seconds. See “Checking the Printer Status” on page 18.

The Scan Menu

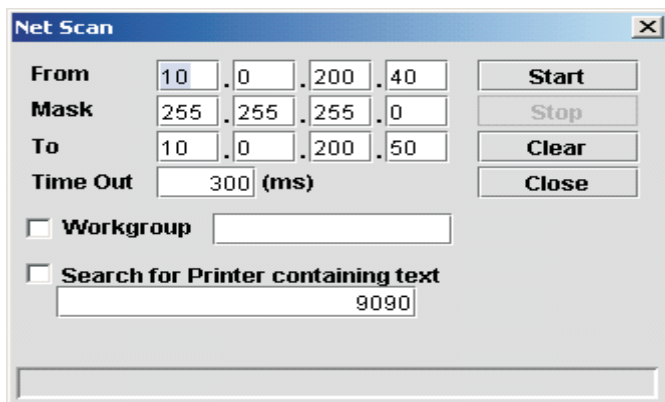


HC0PG104

Figure 8. The Scan Menu

Printers Net Scan(insert)

The RPMU searches for the connected printers within a specified IP-address range by sending a burst of directed SNMP requests to each IP address within the range. Any printer found in that range is inserted into the existing Database.



HC0PG105

Printers Net Scan(new)

The RPMU searches for the connected printers within a specified IP-address range by sending a burst of directed SNMP requests to each IP address within the range. The current database is closed, and a new database is created.

The Printer Operation Menu

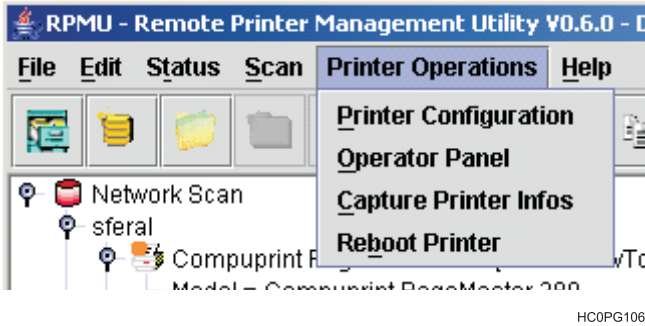
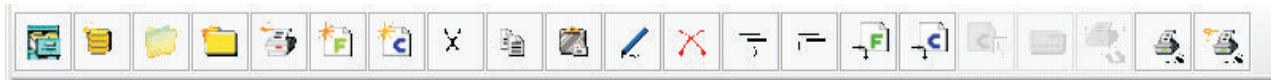


Figure 9. The Printer Operation Menu

Printer Configuration	Use Printer Configuration to edit the configuration file of the printer you selected in the database
Operator Panel	Use Operator Panel to view the virtual operator panel of a printer you selected on the screen.
Capture Printer Infos	Use Capture Printer Infos to get display the configuration value of the selected printer.
Reboot Printer	Use Reboot Printer to reboot the selected printer.






















The Tool Bar



HC0PG107

Figure 10. The Tool Bar

The tool bar shows a series of icons that allow an easier access to the menu functions:

	Open a new database		Delete an object
	Create a new database		Expand the information tree
	Add a new folder		Reduce the information tree
	Save database		Send a firmware file to the devices
	Add a new printer		Send a configuration file to the devices
	Add a new firmware file		Edit a configuration file
	Add a new configuration file		Remote Panel management
	Cut an object		Get the configuration from a device
	Copy an object		Printer net scan (for update)
	Paste an object		Printer net scan (new)
	Edit an object's field		

Setting up the Printer Database



The RPMU's main features are the collection, organization, and management of the printer database.

The database may be set up manually or with an automatic discovery feature. The discovery feature searches for connected devices and automatically adds them to the current database file.

Graphic Conventions Used in the RPMU

The following icons are used in the RPMU windows:



This symbol appears beside the folders and printer symbols. When selected, the object toggles between an expanded () or collapsed () view. The expanded view shows details for the object; the collapsed view hides the details.



The printer in the database is ready and working normally.



The printer in the database is ready and working, but a consumable is running out. The printer will probably need an operator's intervention soon.



The printer in the database is in an alarm or standby state - no more jobs will be printed. An operator's intervention is necessary.



The printer connection is lost. An operator intervention is necessary. The printer has been removed or the connection is interrupted.



Configuration File. The Configuration File may be added to a folder to indicate the current configuration of the printers in that folder.



Firmware File. The Firmware File may be added to a folder to indicate the current firmware version of the printers in that folder.


Automatic Device Discovery

This procedure is useful for setting up the printer database for the first time.

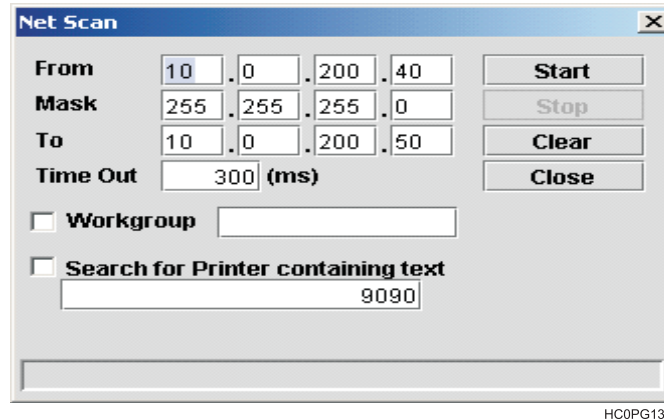
The RPMU searches for the connected printers within a specified IP-address range by sending a burst of directed SNMP requests to each IP address within the range.

During the device discovery procedure the RPMU maps InfoPrint serial matrix printers for complete management, getting the proprietary MIB objects supported. Third-party vendor devices are mapped for basic status reporting only.

How to Start the Automatic Device Discovery

Start the first-time automatic device discovery by selecting the  icon (Printer net scan (new)) on the RPMU's tool bar.

The following dialog is displayed:

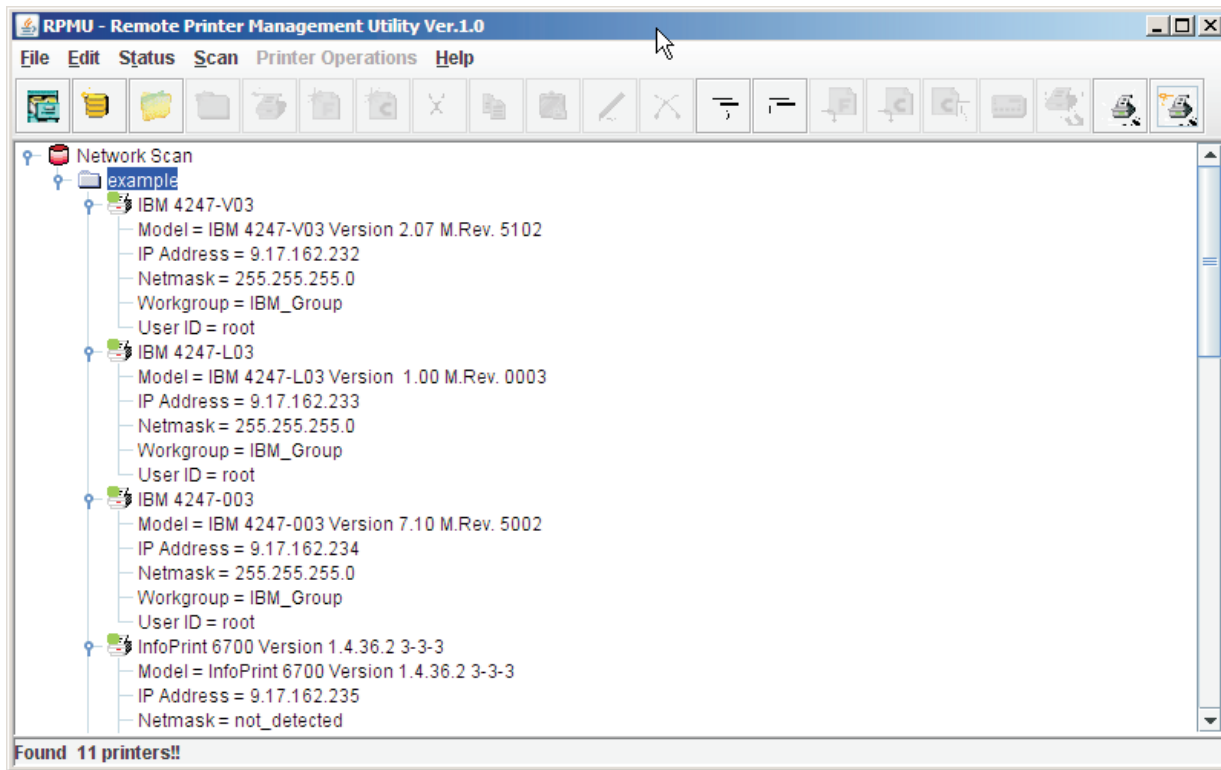


The **From** and **To** IP-addresses define the start and stop addresses of the range in which the connected printers will be checked. **Mask** defines the **Netmask** for the search procedure.

The value set for **Time Out** defines the time the program waits for a reply from a device connected to each IP-address. If no printer is detected, after the time has passed, the program goes to the next IP address within the range. The **Time Out** setting is useful when performing a device discovery procedure on large networks that normally take a long time. The **Time Out** setting ranges between 300 milliseconds (ms) and 100 seconds.

The value set for **Workgroup** in the text area defines the workgroup name of the printers to be searched. The value set for **Search for Printer containing text** defines the text to be searched in the printer's name.

Once the printers connected to the network have been discovered and identified with their IP-address, they can be grouped in a logical way so that the user can access them quickly and easily.



HC0PG136

Figure 11. Logical Grouping of Printers in the Database

The logical groups can be defined hierarchically allowing for navigation through nested device groups. The discovered printers can then be placed into each group.

This structured database can be saved to disk and then retrieved.


The organization process of the devices is performed through the following functions:

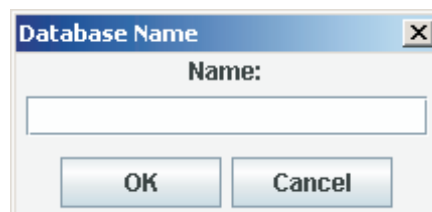
Creating a New Database

Use this procedure for organizing your printers.

The RPMU allows you to create various printer databases and then organize the corresponding printers into folders and subfolders, reproducing the structure of single offices, departments, or the whole company.



1. To create a new database, select the  icon (Create a new database) on the tool bar. The **Database Name** dialog is displayed.



HC0PG110

2. Enter a database name.

Now you can structure and organize the database as follows:

Adding a New Folder



1. Select **Edit** → **Insert** → **Folder** or select the icon (Add a new folder) on the tool bar. The RPMU prompts you for the folder name.



HC0PG111

2. Enter a name for the printer group you want to create and then select the **OK** button.

Note: The RPMU is able to manage nested folders. The printer database may be structured as needed.

Organizing the Folders

Reorganize the Printers Already Present in the Database

If you performed the automatic device discovery procedure described above, you will already have a list of printers connected to the network. In this case you have to reorganize these printers in the folder structure you created with the cut and paste procedure:



Select the printer to put in the new folder and then select the icon (Cut an object) (or select **Edit** → **Cut**).



Select the folder in which you want to put the printer and then select the icon (Paste an object) (or select **Edit** → **Paste**).

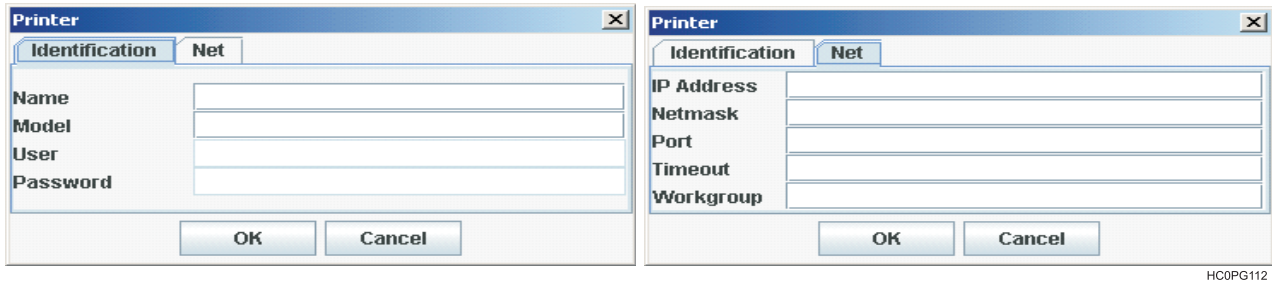
The printer and the corresponding information now appear in the folder.

Manually Inserting a Printer

To manually insert a printer at any time while organizing the database, as either the first printer or in addition to the existing printers in the database, proceed as follows:



1. Select the folder in which you want to insert the printer and then select the icon (Add a new printer) on the tool bar (or select **Edit** → **Insert** → **Printer**).
2. The RPMU displays the printer data dialog box, in which you must enter the printer's parameters. It is necessary to specify the printer name (**Identification** parameter group), the **IP Address**, and **Netmask** (**Net** parameter group).



HC0PG112

Figure 12. Printer Data Dialog Boxes

Note: For more information about how to fill in these dialog boxes, see “The Edit Menu” on page 5.


As soon as the new printer data are confirmed, the RPMU tries to contact the printer in order to update its current status.

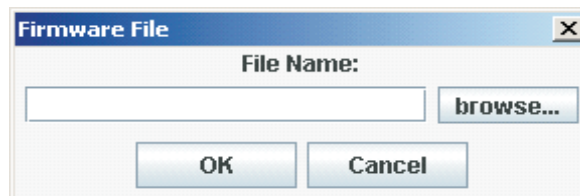
Note: If the printer is not found, the RPMU displays the printer in the database as “not ready”.

Inserting a Firmware File into a Folder

A firmware file may be inserted into a folder to indicate the firmware version loaded on the printers contained in this folder.



1. Select the  icon (Add a new firmware file) on the tool bar (or select **Edit** → **Insert** → **Firmware File**), the **Firmware File** dialog is displayed.



HC0PG113

2. Select the **browse ...** button, select the firmware file you want to insert into the folder, then select **OK**.

3. The **Firmware File** is shown in the selected folder with its identifier graphic .

Note: No firmware download is performed when inserting the firmware file into the folder.


For information on how to download a new firmware version to the printers, see “Updating the Printer's Firmware Version” on page 26.

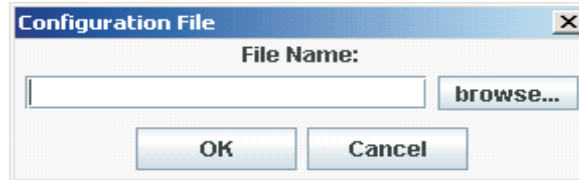
Note: More than one firmware file can be added to each folder.

Inserting a Configuration File into a Folder

A configuration file may be inserted into a folder to indicate the configuration set on the printers contained in this folder.



1. Press the  icon (Add a new configuration file) on the tool bar (or select **Edit** → **Insert** → **Configuration File**), the **Configuration File** window appears.



HC0PG114

2. Press the **browse ...** button, select the **Configuration File** you want to insert into the folder, and press **OK**.

3. The **Configuration File** is shown in the selected folder with its identifier graphics .

Note: No configuration updating is performed when inserting the configuration file into the folder.

For information on how to update the configuration of the printers, see “Configuring the Printers in the Database” on page 18.

Note: More than one configuration can be added to each folder.

Changing the Database Structure

To further organize the folders, printers, firmware, and configuration files in the database, you can use the following tool bar icons:



Cut an object



Copy an object



Paste an object



Edit an object's field



Delete an object

Optimizing the Database Display


Use the following icons to expand or hide the folders, subfolders, and printer information in the database window.



Expand the information tree



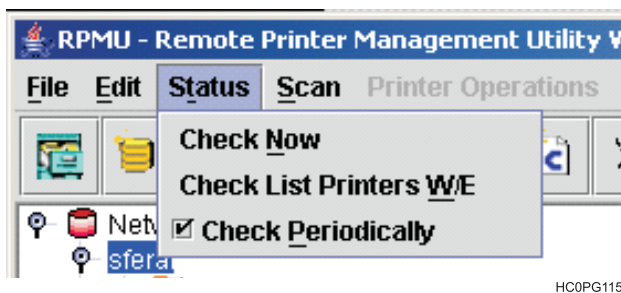
Reduce the information tree

You can select the  symbol to toggle between the expanded and reduced view of the information tree.

Printer Database Management

Checking the Printer Status

Use RPMU program to check the status of the printers connected to the network. The **Status Function** in the RPMU menu offers three selections:



- Check Now** RPMU checks on all the peripherals in the database and updates their statuses.
- Check List Printers W/E** RPMU checks on all printers connected to the network and shows only the printers that are in **ON LINE**, **WARNING**, or **ALARM** state.
- Check Periodically** Enables or disables status polling. When the **Check Periodically** is selected, the RPMU performs an automatic check approximately every 10 seconds.

After the check the printers in the database are shown with the corresponding status indication:



The printer in the database is ready and working normally.



The printer in the database is ready and working, but a consumable, such as paper, is running out. The printer will need an operator's intervention soon.



The printer in the database is in alarm or standby - no more jobs will be printed. An operator's intervention is necessary.



The printer in the database is not connected. The printer has been removed or the network connection is interrupted. An operator's intervention is necessary.

Configuring the Printers in the Database


With the RPMU you can read a printer's configuration, edit it, store it to disk, and download the updated configuration to the printer.

The best way to proceed is to read the existing configuration from the printer and to change it as necessary.


Retrieving a Configuration from a Printer

Note: This feature is only available for InfoPrint Solutions Company Serial Matrix printers.

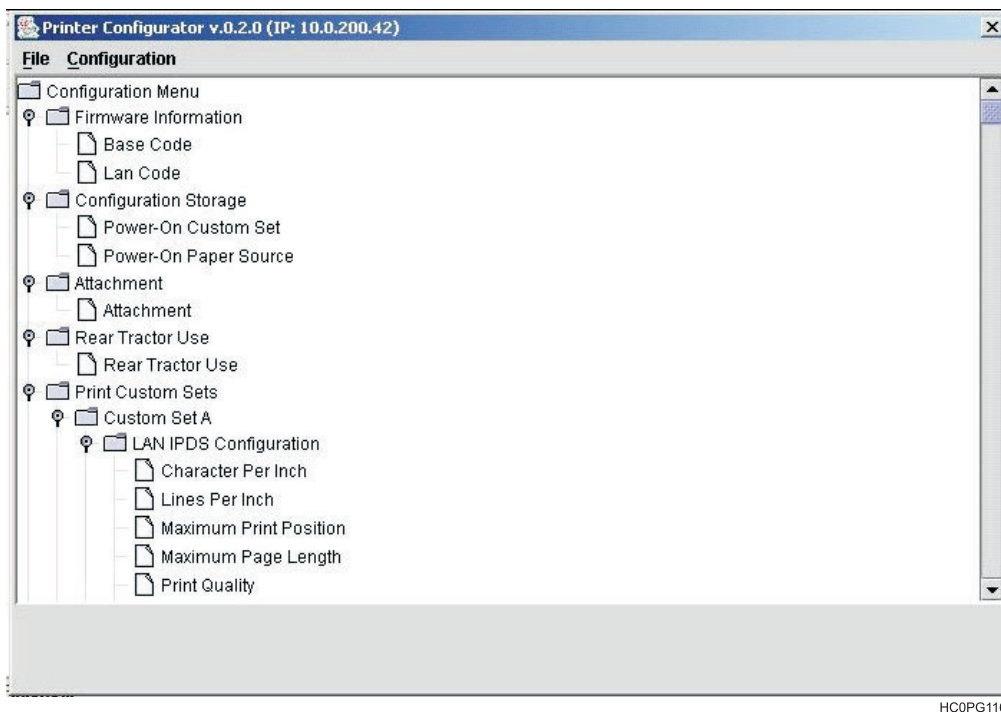
1. Choose the printer configuration you want to upload by either:

- Opening the saved configuration file previously uploaded by selecting the  icon (Edit a configuration file icon) on the tool bar or with the “Printer Configuration” in the “Printer Operation” menu.

or

- Upload the configuration file with the current settings for the printer by pressing the  icon (Get the configuration from a device) on the tool bar or by way of the **Capture Printer Infos** in the **Printer Operation** menu.

The RPMU opens the **Configuration Editor** showing the configuration tree for editing.



HCOPG116

Figure 13. Printer Configuration Window

For each parameter, you can see the range of possible choices and the default setting by clicking on the parameter in the tree. For example, Figure 14 on page 20 shows the Maximum Print Position parameter.

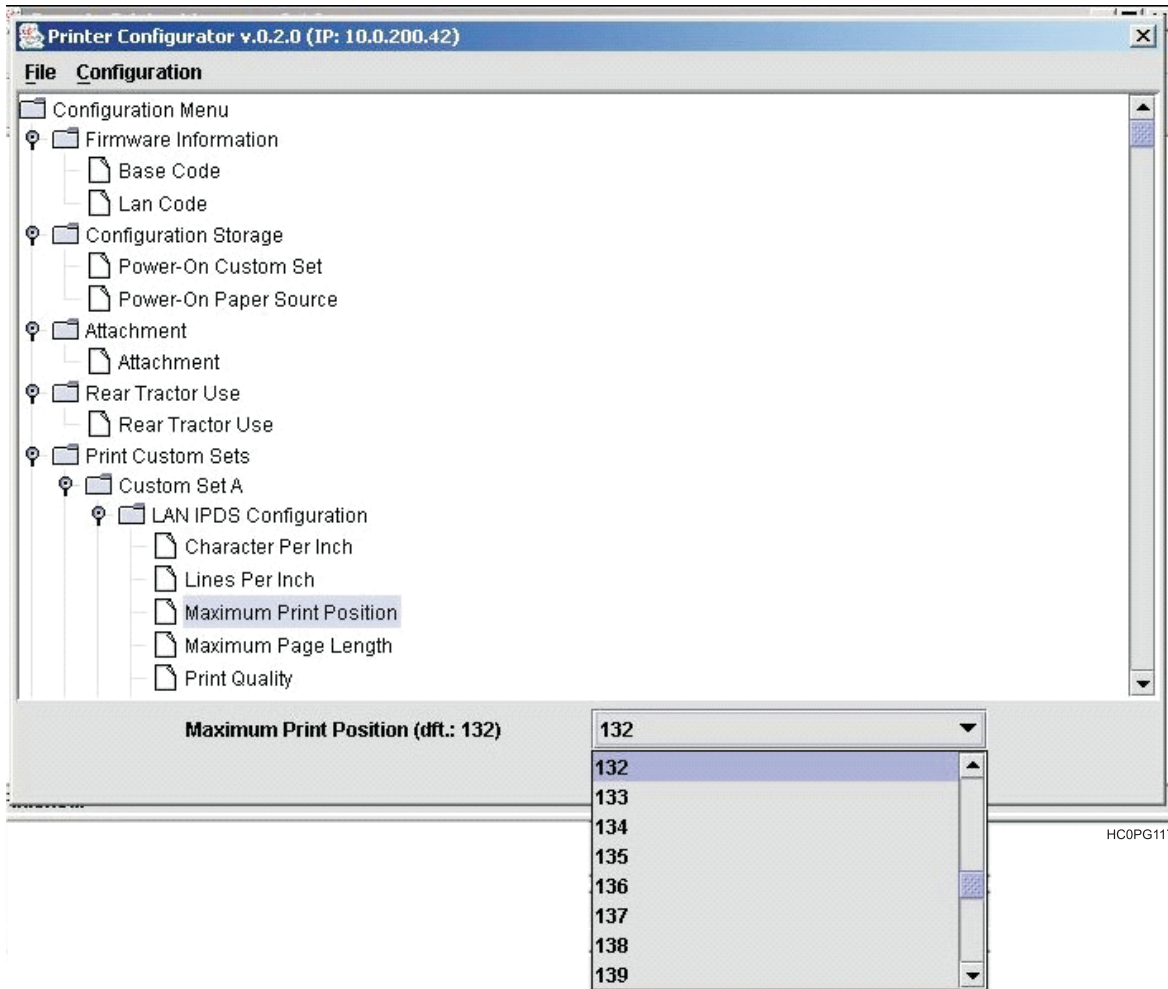


Figure 14. Maximum Print Position parameter

Editing a Printer Configuration

For each parameter in the printer configuration tree you can select the desired value.

1. Select the configuration parameter you want to set. The Printer Configuration Manager is displayed. The lower part of the window displays the default value and the currently set value of the parameter.

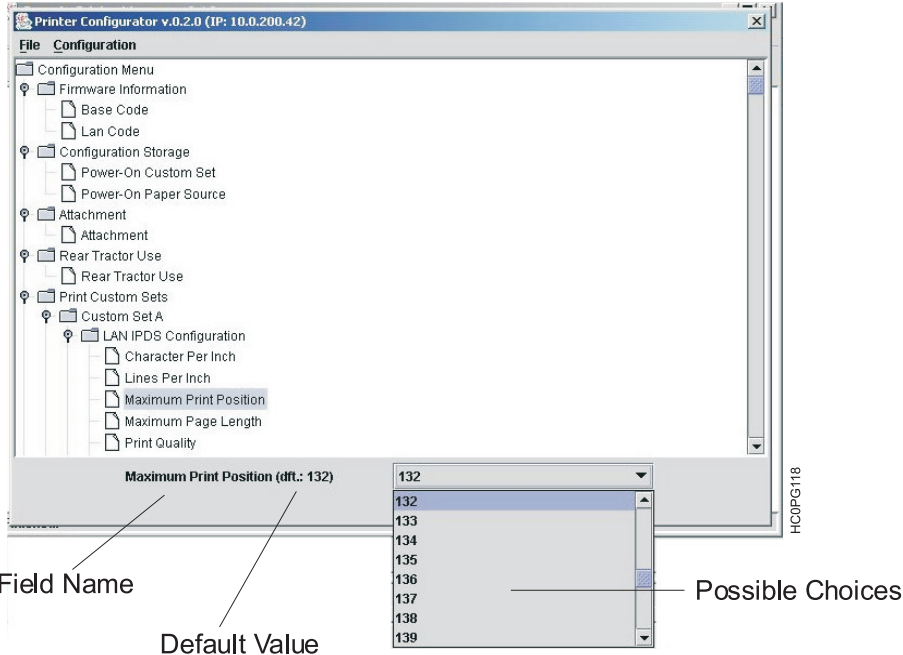



Figure 15. Printer Configuration Manager

2. Select the  symbol on the right side of the current value. The pull-down list of the possible values is shown for the selection.
3. Click on the value shown in the current value field. The pull-down menu closes and the new value is set.

Set all the parameters in the same way.

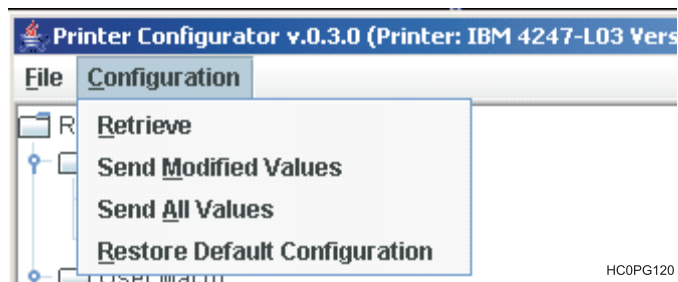
Note: The values set are only stored in your PC's RAM; no value has been set on the printers in the database.

You may now send the new settings to the printer and/or save the configuration file with the new settings on the hard disk of your PC.

Sending the Configuration to the Printers

Once all the parameters in the configuration tree have been set the new configuration must be sent to the printers.

1. In the **Printer Configurator** menu, select **Configuration**. You have two download possibilities:



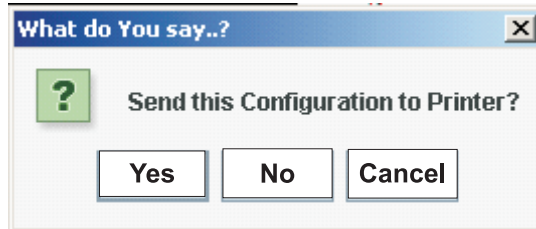
Selecting:

- a. **Send Modified Values** Only the updated values are sent to the selected printers. This procedure is fastest.

- b. **Send All Values** The whole set of configuration parameters is sent to the printers. This procedure assures that all configured printers have identical settings.

Restore Default Configuration Restore the default Configuration into the working configuration file (not sent to printer).

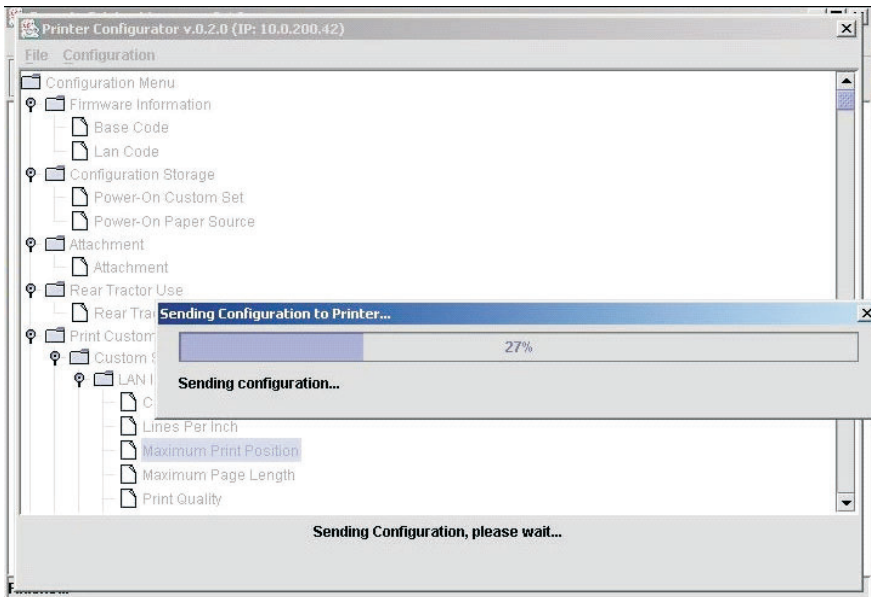
2. Selecting either **Send Modified Values** or **Send All Values** in the **Printer Configurator** menu, the printer asks to confirm the selection.



HC0PG121

- Yes** Begins downloading the updated configuration (see step 3).
- No** The configuration is not downloaded and the RPMU displays again the Main Window.
- Cancel** The configuration is not downloaded and the Printer Setup tree is displayed for further changes.

3. Selecting **Yes** sends the updated configuration to the printer.



HC0PG122

Figure 16. Sending the Configuration to the Printer

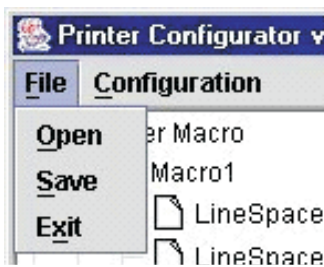
The program shows the progression bar during the download. At the end of the download procedure the printer is restarted with the new settings.

Saving the Configuration File to Disk

Once all the parameters in the configuration tree have been set, the configuration may be saved to disk.

This allows you to have different configuration files for updating your printers.

1. After editing the configuration tree, select **File** in the **Printer Configurator** menu.



HC0PG123

2. Select **Save**. The RPMU prompts you for a file name and folder.
3. Enter a name for the configuration file and Select **OK**.
4. The configuration file is saved to disk. You may load it for editing and/or updating a printer with these settings.

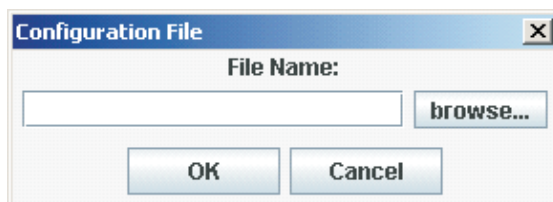
Updating a Printer or a Group of Printers Using an Existing Configuration File

The configuration files on your computer may be used to update the printers in the network. For example, when new printers are installed and should be configured as the other printers in the same group or for reconfiguring all printers of a group. Proceed as follows:

1. In the **Main Window** of the printer database position the cursor on the folder containing the printers to



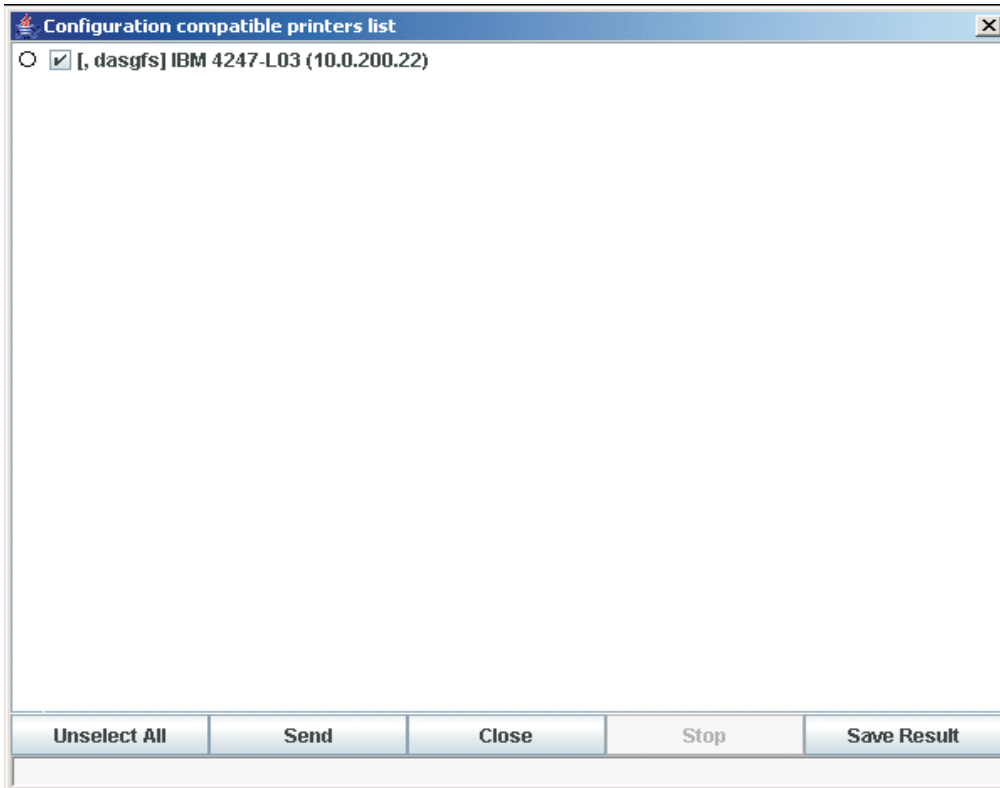
configure, then select the icon (Send a configuration file to the devices). The program shows the **Configuration File** selection window.



HC0PG124

2. Enter the file name, or select the **browse...** button to select a configuration file.

The RPMU shows the list of the devices that are compatible with the selected configuration file.



HC0PG125

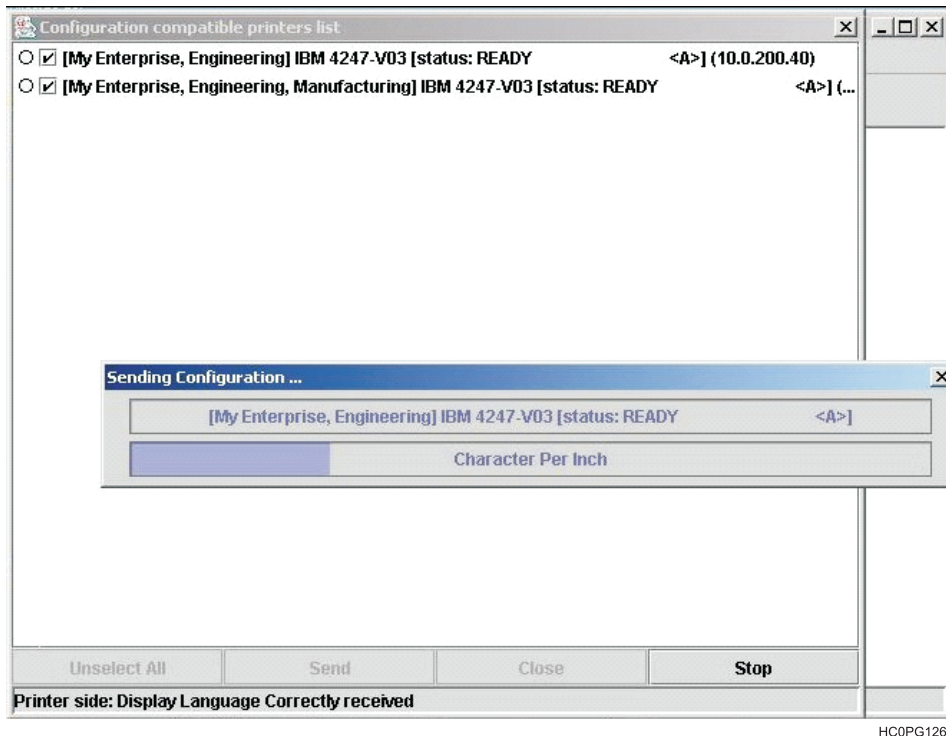
Figure 17. List of Compatible Devices

In this dialog, you can select or deselect the printers that you want to configure by selecting the check field (✓) beside the printer or selecting the first button at the bottom of the screen:

Unselect All / Select All This button selects or unselects all of the printers in the list.

Save Result This button saves the list of shown compatible devices and all their information in the selected .TXT file.

Once the printers are selected, select the **Send** button. The Configuration File begins downloading.



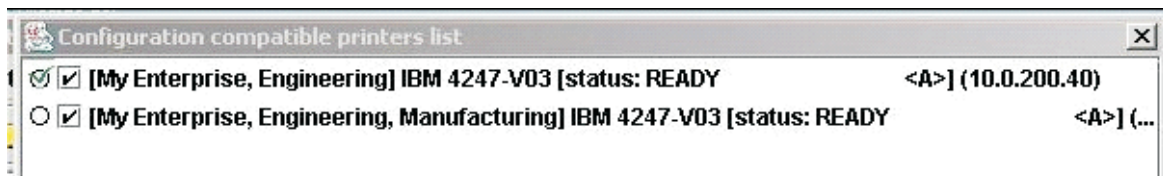
HC0PG126

Figure 18. Downloading the Configuration File

- The first line on the screen indicates the printer that is being configured.
- The second line indicates the parameter that is being updated.

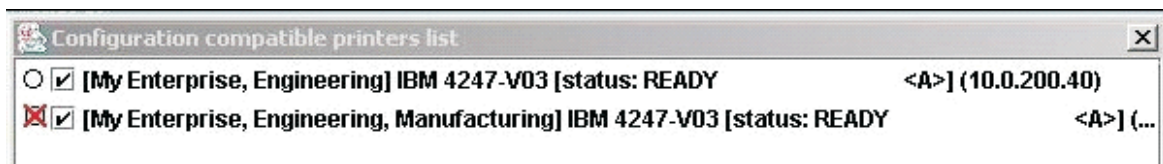
Once the printers have been configured the RPMU shows the result of the download:

- If the download was successful, the printer is checked with a green check sign.



HC0PG127

- If an error occurred during the download, the printer is checked with a red cross sign.



HC0PG128

Note: When the configuration parameters have been sent to the printer, it is re-initialized to set the new printer configuration.


After a group of printers has been updated, insert the configuration file used for the update into the folder containing the updated printers. See “Inserting a Configuration File into a Folder” on page 17.

Updating the Printer's Firmware Version

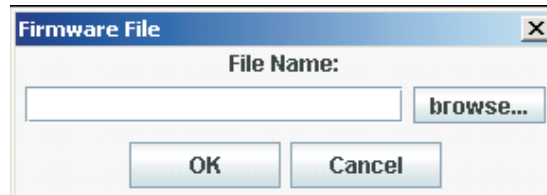
The firmware downloading utility allows you to upgrade either the base board or the LAN card flash content.

A single download operation can be done on a list of peripherals belonging to the same folder in the Printer Database.

1. In the RPMU **Main Window** select the folder containing the printers for which you want to update the

firmware, and select the  icon (Send a firmware file to the devices) on the tool bar.

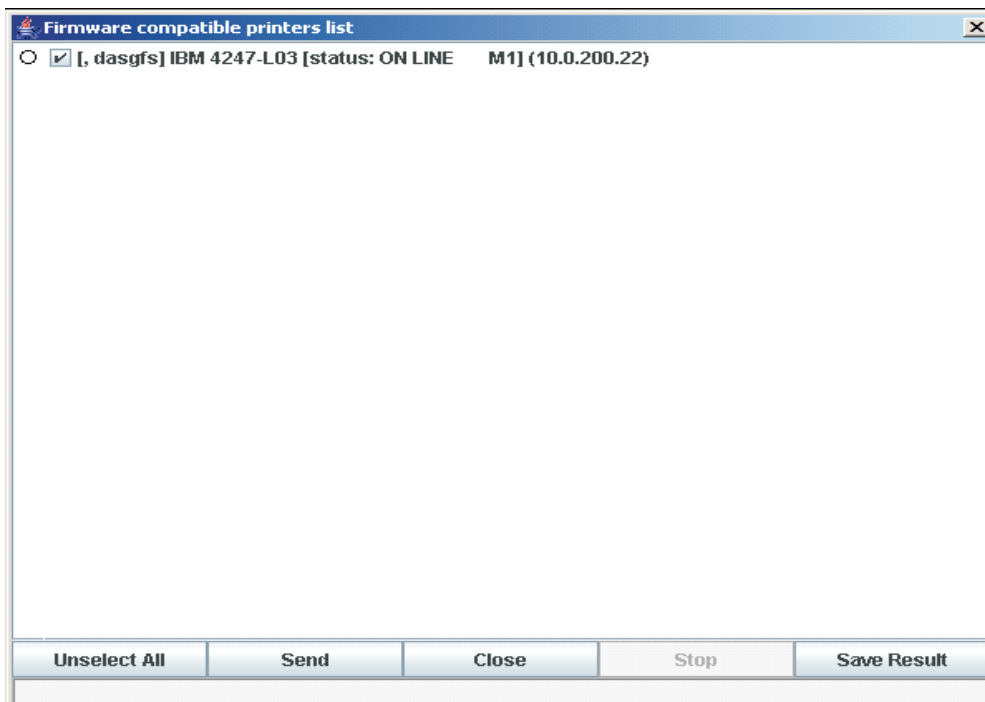
2. The program displays the **Firmware File** selection window.



HC0PG129

3. Enter the file name or select the **browse...** button to select the firmware file.

The RPMU shows the list of printers that are compatible with the selected firmware file.



HC0PG130

Figure 19. List of Compatible Printers

In this dialog, you can select or deselect the printers to which you want to download the firmware file by selecting the checked field () beside the printer or pressing on the first lower button:

Unselect All / Select All This button selects or unselects all of the printers in the list.

Save Result This button saves the list of shown compatible devices and all their information in the selected .TXT file.

Press the Send button to start downloading the Firmware Files to the selected printers.

When the printers have been updated the RPMU shows the result of the download:

- If the download was successful, the printer is checked with a green check sign.



- If an error occurred during the download, the printer is checked with a red cross sign.



Note: After firmware downloading the printer is restarted with the new code release.

After a group of printers has been updated, insert the configuration file used for the update into the folder containing the updated printers. See “Inserting a Firmware File into a Folder” on page 16.

Configuring a Printer With the Virtual Operator Panel

For InfoPrint Solutions Company Serial Matrix printers, you can call up the corresponding virtual operator panel with all the keys, LEDs, and the display.

You can then perform all printer operator panel functions on your computer in the same way as if you were in front of the printer. Click on the operator panel keys with your mouse.

The following shows the virtual operator panel of the printer.

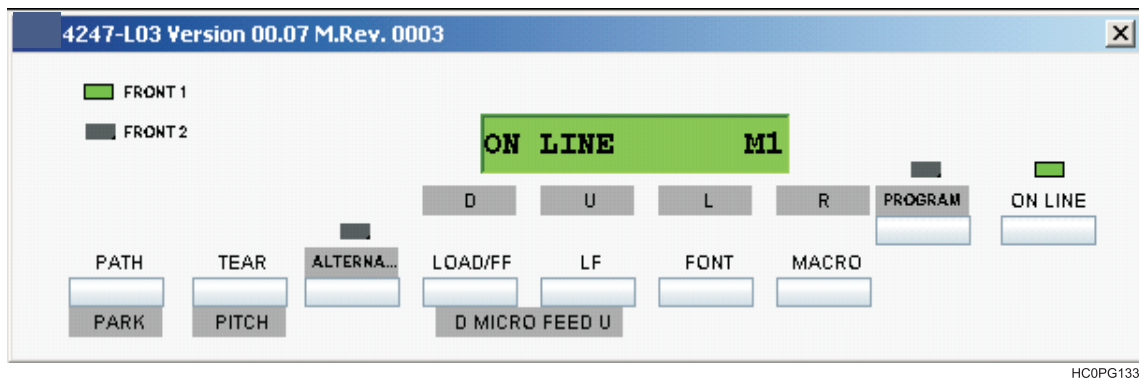



Figure 20. The Virtual Operator Panel

To call up the virtual operator panel:

1. Select the printer for which you want to see the virtual operator panel.

- a. Select the  icon (Remote Panel management) on the tool bar or the **Operator Panel** in the **Printer Operation** menu.

2. The corresponding operator panel appears on the screen.

Note: For more details on the operator panel functions, please see the user manual of the corresponding printer.

Updating the Printer's List in the Database

When printers are connected to or removed from the network, you can update the structure by performing an update net scan. During the device discovery procedure the RPMU maps InfoPrint Solutions Company printers for complete management getting the proprietary MIB objects supported. Third-party vendor devices are mapped for basic status reporting.



The update automatic device discovery is started by selecting the icon (Printer net scan (for update)) on the Remote Printer Manager's tool bar. The following dialog is displayed:

A screenshot of the 'Net Scan' dialog box. It features several input fields and checkboxes. The 'From' field is set to '10.0.200.1', 'Mask' to '*. *.* .0', and 'To' to '10.0.200.100'. 'Time Out' is set to '350 (ms)'. There are checkboxes for 'Workgroup' and 'Search for Printer containing text' with a text box containing 'IBM'. On the right side, there are four buttons: 'Start', 'Stop', 'Clear', and 'Close'.

The **From** and **To** IP-addresses define the start and stop addresses of the range in which the connected printers are checked. **Mask** defines the Netmask for the search procedure. The value set for **Time Out** defines the time the program waits for a reply of a device connected to each IP-address. After the time has passed, if no printer is detected, the program goes to the next IP address within the range. Setting **Time Out** is useful when performing a device discovery procedure on large networks.

The value set for **Workgroup** in the textbox defines the workgroup name of printers to be searched. The value set for **Search for Printer containing text** defines the text to be searched into the printer name.

Once the printers connected to the network have been discovered and identified with their IP-address, they may be grouped in a logical way so that the user can access them quickly and easily.

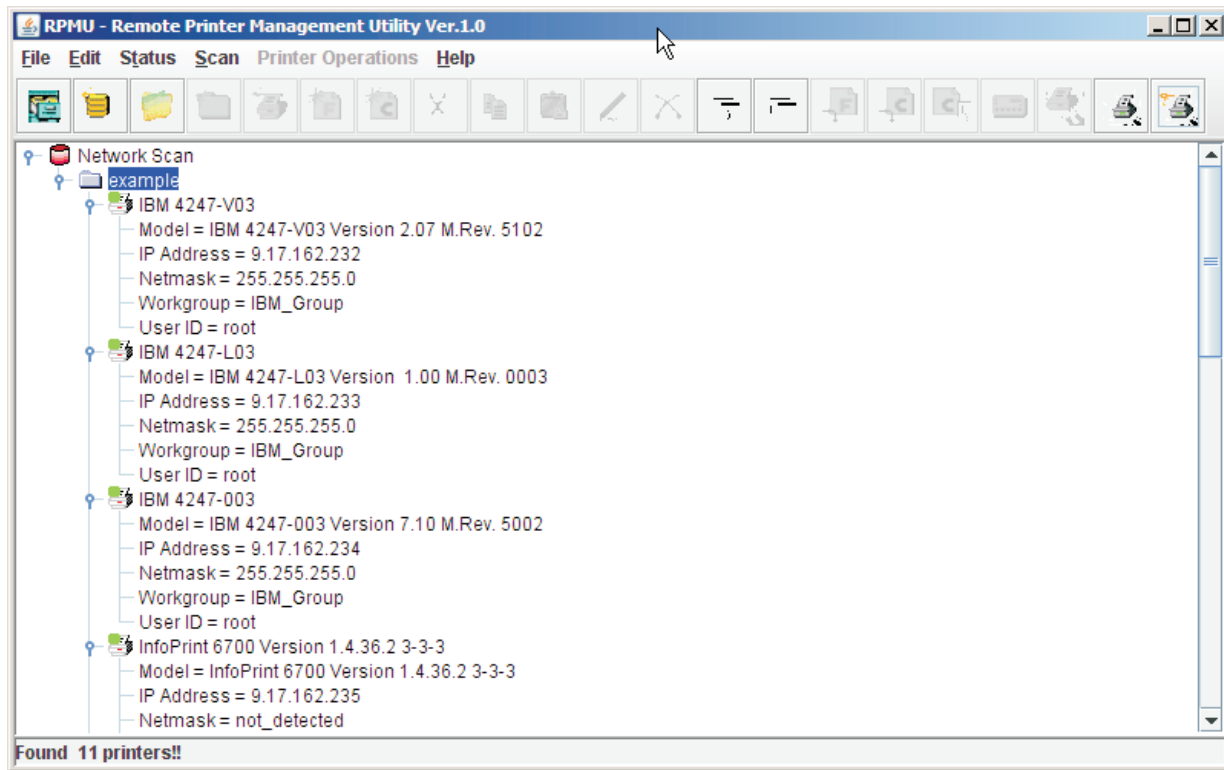


Figure 21. Logical Grouping of Printers in the Database

Note: Discoveries are started by selecting the corresponding icon on the RPMU tool bar. No means for automatically detecting new devices are provided.

The found printers may be organized as previously described in this manual.

Software Installation and Documentation

The Remote Printer Management Utility software can be downloaded from our web site at

www.infoprint.com

- Remote Printer Management Utility installation files
- Auto Installation for Microsoft environment
- Installation shell script for Unix and Linux environments
- User Guide in PDF format
- Software license agreement

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