SOLUTIONS

Aficio®

RICOH
SmartNet Monitor

**Printer
Management
Software**

RICOH®

Advanced Productivity and Document Workflow

Imagine seeing the status of all RICOH® peripherals on a shared network directly from your desktop...knowing precisely what device is available, the configuration of each – even the levels of paper and toner – at the click of the mouse. This translates into significantly increased end-user productivity and complete control for network administrators.

In today's networked office, proactive management of document workflow is essential. To address this challenge, Ricoh has developed SmartNetMonitor, an easy-to-use network utility that facilitates a flexible and efficient means of controlling supported networked Ricoh peripherals. Ricoh printers, facsimiles, and scanners, as well as MFP's (color and black-and-white) can be managed with SmartNetMonitor.

SmartNetMonitor increases the value of supported Ricoh networked peripherals by enabling an efficient method of installing, monitoring, and managing shared resources. Designed for both Clients and Administrators, SmartNetMonitor is certain to simplify the way network users handle their daily workflow.

Network Administrators will use Ricoh's SmartNetMonitor for Admin to install and manage all supported Ricoh-connected peripherals on their network.

Two initial key functions for the Administrative module are NIC Configuration and Group Management of Devices.

Network Interface Card Configuration

Automatically installed as part of the SmartNetMonitor for Admin module, the NIC Setup Tool installs and configures the supported Ricoh network products onto the network.

Group Management of All Network Devices

SmartNetMonitor for Admin provides an easy way for Network Administrators to logically group Ricoh-connected products by department, workgroup or peripheral capability. Up to 100 groups can be created, edited or deleted easily.

System Status Monitoring

A key advantage over competitive monitoring and management software is the ability to track the activities of all supported Ricoh peripherals connected to the network. Network Managers can identify the configuration of each device quickly and easily.

In addition, the status of toner levels in supported Ricoh printer and facsimile products, memory capacity of the document server, and lists of jobs sent from any networked PC station can be monitored.

Local network lists can be quickly generated to identify and provide status information of supported network devices.

Monitoring Efficiency and Output Management Options

This is the component of SmartNetMonitor that sets it apart from competitive network management utilities. SmartNetMonitor for Client is the portion of software that resides on each users' computer desktop.

An icon is placed on the Windows Taskbar, constantly updating and informing the user of the status of supported devices on the network, including supported MFP's and printers.

Increased Print Management Options

In a continuing effort to support network Clients, Ricoh has included in it's SmartNetMonitor for Client module the ability to increase print management capabilities.

When SmartNetMonitor for Client is installed, users have immediate access to key functions, such as Peer-to-Peer Printing, Recovery Printing and Parallel Printing.

Recovery Printing

When a designated supported printer or MFP cannot print a job due to misfeed, out of toner or out of paper conditions, SmartNetMonitor for Client can automatically select an alternate printer to complete the job. The user may also decide to select another printer manually from a list of printers on the network.

Parallel Printing

Parallel Printing results in significant time savings when Clients are sending long print runs over the network. SmartNetMonitor for Client allows users to split a print job between Ricoh output devices. Up to 11 Ricoh output devices can be used to split long print runs.

If SmartNetMonitor detects that a pre-determined number of prints (indicated by the user) is required, the Parallel Print function browses through the network to search for additional appropriate devices (pre-selected by the user). These devices are Ricoh products of the same type and configuration.

When a designated printer is found, the print job is divided equally among those appropriate peripherals. Parallel Printing works only when multiple sets of a document are required. It cannot divide a single document between Ricoh devices.

Peer-to-Peer Printing

Peer-to-Peer Printing enables your clients to print directly to a Ricoh-connected system via TCP/IP, eliminating the need for a print server. In addition, this feature of SmartNetMonitor is independent of the type of Network Operating System (NOS) in use (i.e., Novell Netware, Windows NT, etc.).

Also, because print jobs are not following the Client/Server route, users may see their jobs print faster.
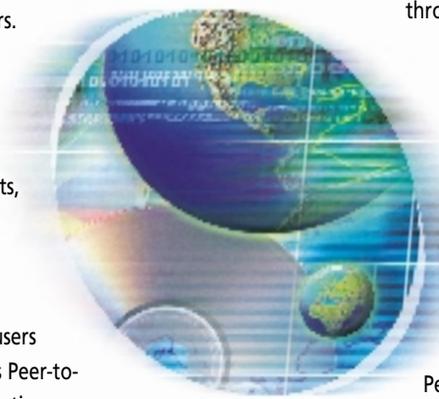
The Parallel Printing Process

Requests 30 sets

10 sets

10 sets   10 sets
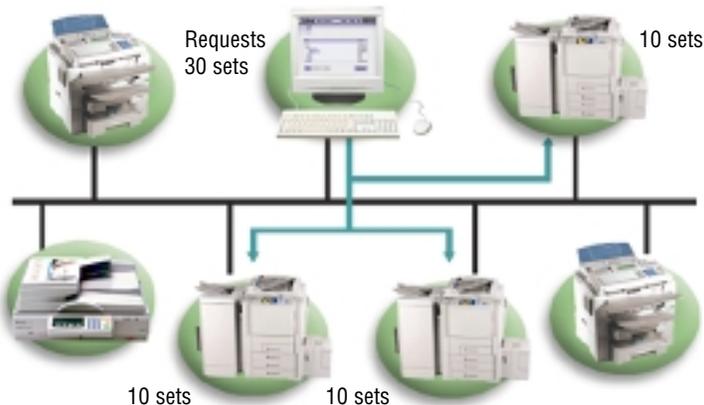
The Peer-to-Peer Printing Process

• • • • Client/Server Environment

—— Peer-to-Peer Printing
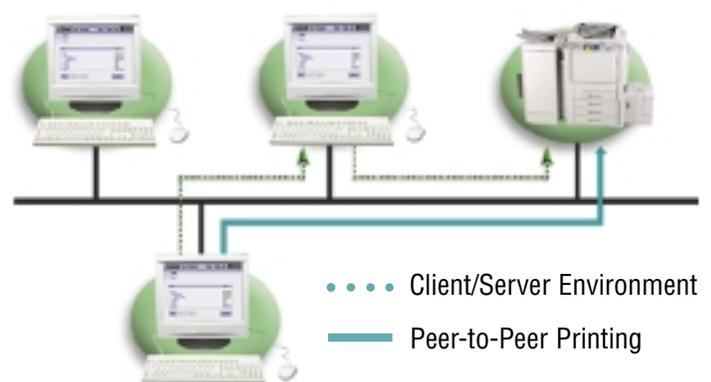
Network Printers

Right: At the click of a mouse, the "My Jobs List" feature brings up a queue of just those projects sent from your own workstation.

Below: Notification menus alert users to multiple setting options and important features relating to their job.

My Job List Menu

Searching through a list of multiple documents sent by multiple users to multiple peripherals can be both time-consuming and cumbersome. Checking for the status of your particular print job can also be frustrating.

SmartNetMonitor for Client eliminates the need to search through all documents in the queue through the "My Jobs List". To view only the projects sent from his/her workstation, the Client accesses the "My Job List Menu" to track the status of a document.

A User ID is entered in the Property Settings for each printer driver (in the case of printing). If an ID is not entered, a "?" symbol appears in the User ID column.

SmartNetMonitor Port

The SmartNetMonitor port is designed to support Parallel Printing, Recovery Printing and Peer-to-Peer activities.

Supported protocols include TCP/IP, Internet Printing (IPP), and NetBEUI. PDL's supported are PCL5e, PCL 6 (XL). PostScript Level 2 and Level 3 are NOT supported for these printing solutions.

SmartNetMonitor supports Ricoh's "Next Generation Technology" products, via RPCS drivers and IPDL-C drivers (for color devices).

Web Status Monitor

Web Status Monitor enables users to view the current status and availability of Ricoh networked output devices. It is independent of SmartNetMonitor for Client software and no additional software installation is required.

The key purpose for the Web Status Monitor is to provide a network printer management solution to users who:

▶ Use a network operating system other than Windows, such as MAC OS or UNIX.

▶ Do not want to install additional network utilities.

Notification Menus

SmartNetMonitor for Client offers a Notification Menu, where multiple settings are established for advising the user of important activities relating to a print job.

These notifications are provided when jobs are rerouted, completed, or have encountered error situations. Notifications can be set for Parallel and Recovery Print options. Documents sent through the Client/Server environment can also send notifications.

The Notification Process

Client Host   Windows NT 4.0/2000

Shared

SNM Port

Ethernet

Notification
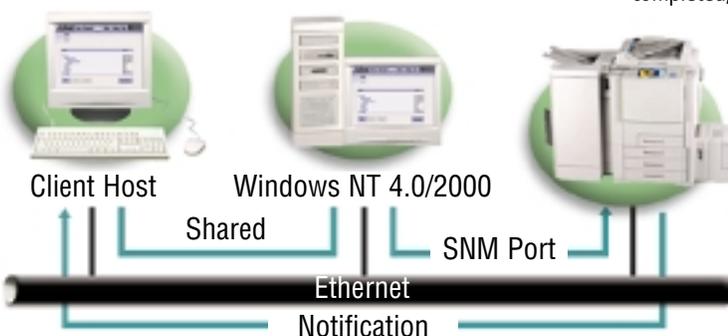
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User Management Tool

Surpassing the competition in monitoring and management of supported Ricoh network devices, SmartNetMonitor for Admin offers more flexibility and effective control to the Network Manager. The User Management Tool performs dual tasks, both relating to user statistics and user access to various peripherals.

► **User Statistics Log**

Being the only network management software that tracks the activities of an "entire system", SmartNetMonitor for Admin provides a detailed log of all devices accessed by each user or department.

For those environments where departments or workgroups are tracked for device usage, this feature makes the compiling of this information almost effortless.

► **Access Privilege List**

Control of user privileges is also achieved by the IT Manager through the User Management Tool. This activates a menu for simple review of the peripherals authorized for use by User Code and User Name.

All Ricoh supported peripherals on the network are listed, and a simple click on the device, accesses a menu that restricts or enables access to the device for individual users. A User Account Enhance Unit option is required to activate this feature.

Sample window from the "User Statistics Log".
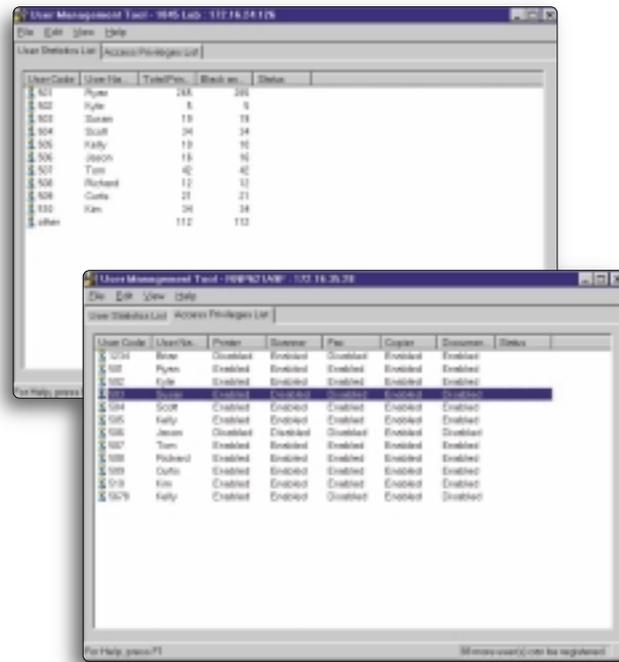
Sample window from the "Access Privilege List".

Device List Columns

Network Administrators are able to customize how they view device groups by adding or removing columns of information from activity menus.

Lock Device Operation Panel

Many of Ricoh's digital imaging products have Operation Panels on the hardware itself. IT Managers can restrict the access to those operation panels for non-authorized users.

Paper Setting Selections

A more efficient means of selecting the proper paper types is having the ability to select the paper settings from the SmartNetMonitor for Admin workstation.

Rather than needing to access these settings from the Control Panel on the hardware device, you can now select the appropriate paper types from the IT Manager's desktop.

Sample window from the "Device List Columns".

Sample window from the "Paper Setting Selections".

RICOH SMARTNETMONITOR

System Requirements	Applicable Models

SmartNetMonitor for Admin and Client

► **CPU Type/Speed:**   i486/33MHz or better

► **Hard Disk:**   20 MB HDD Vol. (for Admin)

    30 MB HDD Vol. (for Client)

► **RAM:**   32 MB Recommended

► **Operating System:**   Windows 95/98/98SE

    Windows 2000 Professional

    Windows 2000 Millennium

    Windows NT 4.0/NT Server

► **Protocols:**   TCP/IP, IPX/SPX

Web Status Monitor

► **Applicable Clients:**   Windows 95/98/NT 2.0, 2000

    Macintosh OS 7.5 and higher

    UNIX Solaris 2.5/2.6 (System 5)

► **Web Browsers:**   Internet Explorer 3.02/4.0

    Netscape Navigator 3.0/4.0

SmartNetMonitor can be used with the following Network Interface Boards/Cards and systems. The level of supplied status information and available features may differ by the Network Interface Boards/Cards installed in the Ricoh peripheral. Other vendors' Network Interface Boards/Cards may also be compatible with SmartNetMonitor and can provide device monitoring status information feedback. This list is subject to change, so please consult with your sales representative.

► **NIC Type 401-E:**	Aficio 401 / MP-01
► **NIC Type 250-E:**	Aficio 200 / 250
► **NIB Type 450-E:**	Aficio 340 / 350 / 450 / 550 / 650
	Aficio 551 / 700 / 850 / 1050
	AP4500
► **NIB Type 2000:**	AP2000 / AP1400 / AP2100 /
	AP1600 / Aficio FAX 5000L
► **NIB Type 204:**	AP204 (Color Laser)
► **NIB Type 305:**	AP305 (Color Laser)
► **NIB Type 185-E:**	Aficio 150 / 180 / 220 / 270 /
	AP2700 / AP3200
► **Color Controller RC-200:**	Aficio Color 3006 / 4006 / 4106
► **Color Controller RC-210:**	Aficio Color 3506 / 4506
► **Color Controller E-800A:**	Aficio Color 6010 / 6110
► **Color Controller E-810:**	Aficio Color 6513
► **EB-70:**	Aficio 551 / 700
► **EB-105:**	Aficio 850 / 1050
► **NIB Type 306:**	AP306 (Color Laser)
► **Color Controller E-700:**	Aficio Color 6010 / 6110
► **Color Controller E-710:**	Aficio Color 6513
► **Color Controller E-310:**	Aficio Color 3506 / 4506
► **NIB Type 2600:**	AP2600
► **NIB Type 1045:**	Aficio 1035 / 1045
► **NIB Type 306:**	AP206 (Color Laser)
► **NIB Type 1080:**	Aficio 1015 / 1018
► **NIB Type 1027:**	Aficio 1022 / 1027
► **EB-105e:**	Aficio 1085 / 1105
► **Others:**	Aficio AP3800C

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