P2WW-2818-01ENZ0

Scanner Central Admin 5.0 User's Guide

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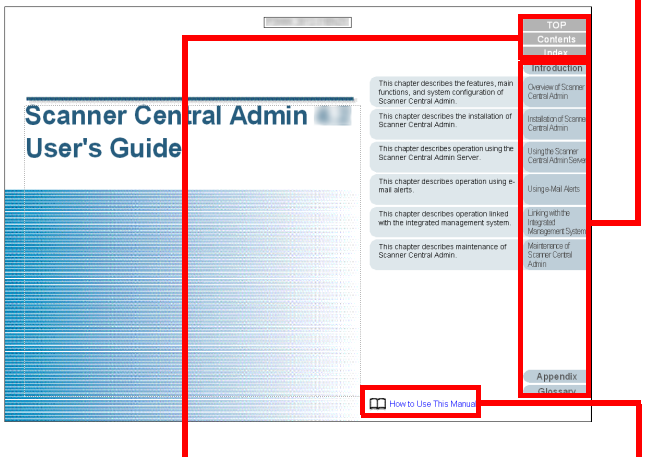
How to Use This Manual

The following shows the tips for using this manual.

- To display or print this manual, either Adobe® Acrobat® (7.0 or later) or Adobe® Reader® (7.0 or later) is required.
- In this manual, you can use the Search tool of Adobe® Acrobat® or Adobe® Reader®.
  For details, refer to Adobe® Acrobat® or Adobe® Reader® Help.
- Use the [PageUp] key to return to the previous page, and the [PageDown] key to go to the next page.
- Clicking a blue character string, tab or contents/index title (where the mouse cursor changes into a shape such as) jumps to the link.
  - Common for all pages

Jumps to the first page of each chapter.
These tabs are on every page.



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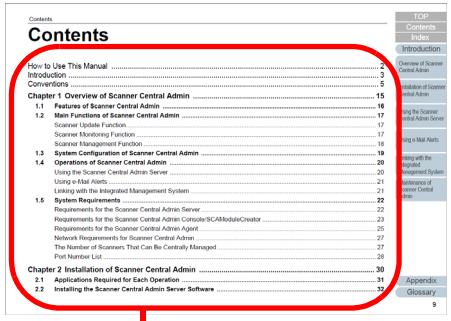

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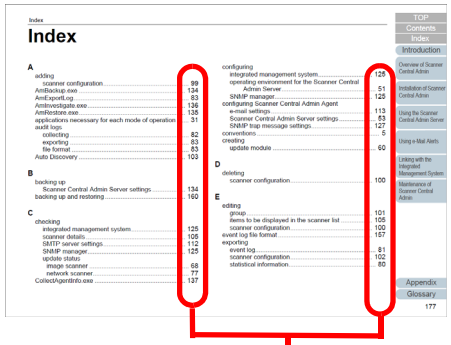
- Index page



Click on a page number to jump to the link.

Introduction

Thank you very much for purchasing this product.
This product is an application that enables the centralized management of our multiple scanners to update scanner settings and drivers, as well as to monitor the operating status of the scanners.
Contents of this manual are subject to change without notice upon updating the Scanner Central Admin.
The most recent Scanner Central Admin User's Guide and Scanner Central Admin Console Help can be downloaded from the following web page. Internet access is required to download the manual.
http://www.fujitsu.com/global/support/computing/peripheral/scanners/manual/

This manual provides an explanation for the following products:

- Scanner Central Admin Server 5.0
- Scanner Central Admin Console 5.0
- Scanner Central Admin Agent 5.0

Types of Manuals

The following manuals are available for this product. Read them as needed.

Manual	Description
Scanner Central Admin 5.0 User's Guide (This manual) (PDF)	This manual describes the overview, installation, operation, and maintenance of Scanner Central Admin. This manual is downloadable.
Scanner Central Admin Console Help (HTML)	This manual describes the items displayed in the Scanner Central Admin Console window as well as the meaning of messages and how to handle them. Read it as needed. It can be accessed from [Help] on the Scanner Central Admin Console window.
Scanner Central Admin Agent Help (HTML)	This manual describes the items displayed in the Scanner Central Admin Agent window as well as the meaning of messages and how to handle them. Read it as needed. It can be accessed from [Help] on the Scanner Central Admin Agent window.
SCAModuleCreator Help (HTML)	This manual describes the items displayed in the SCAModuleCreator window as well as the meaning of messages and how to handle them. Read it as needed. It can be accessed from [Help] on the SCAModuleCreator window.

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Manufacturer

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Nishi-ku, Yokohama, Kanagawa, 220-8567,
Japan
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Use in High-Safety Applications

This product has been designed and manufactured on the assumption that it will be used in office, personal, domestic, regular industrial, and general purpose applications. It has not been designed and manufactured for use in applications that pose a direct danger to life and health when a high degree of safety is required (referred to in this manual as "high-safety applications"), such as in the control of nuclear reactions at nuclear power facilities, automatic flight control of aircraft, air traffic control, operation control in mass-transport systems, medical equipment for sustaining life, and missile firing control in weapons systems, and when provisionally the safety in question is not ensured. The user should use this product while providing measures for ensuring safety in such high-safety applications. PFU Limited assumes no liability whatsoever for damages arising from use of this product by the user in high-safety applications, and for any claims or compensation for damages by the user or a third party.

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Secure iNetSuite
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Conventions

Abbreviations Used in This Manual

The following abbreviations are used in this manual.

Name	Indication
Windows Server® 2008 Standard (32-bit/64-bit)	Windows Server 2008 (*1) (*2)
Windows Server® 2008 Enterprise (32-bit)	
Windows Server® 2008 R2 Standard (64-bit)	
Windows Server® 2008 R2 Enterprise (64-bit)	
Windows Server® 2012 Standard (64-bit)	Windows Server 2012 (*1) (*2)
Windows Server® 2012 R2 Standard (64-bit)	Windows Server 2012 R2 (*1) (*2)
Windows® 7 Home Premium (32-bit/64-bit)	Windows 7 (*1)
Windows® 7 Professional (32-bit/64-bit)	
Windows® 7 Enterprise (32-bit/64-bit)	
Windows® 7 Ultimate (32-bit/64-bit)	
Windows® 8.1 (32-bit/64-bit)	Windows 8.1 (*1)
Windows® 8.1 Pro (32-bit/64-bit)	
Windows® 8.1 Enterprise (32-bit/64-bit)	

Name	Indication
Windows® 10 Home (32-bit/64-bit)	Windows 10 (*1)
Windows® 10 Pro (32-bit/64-bit)	
Windows® 10 Enterprise (32-bit/64-bit)	
Windows® 10 Education (32-bit/64-bit)	
Windows Server® 2016 Standard (64-bit)	Windows Server 2016 (*1) (*2)
Microsoft® Office SharePoint® Server 2007	SharePoint
Microsoft® SharePoint® Server 2010	
Microsoft® .NET Framework	.NET Framework
Windows® Internet Explorer®	Internet Explorer
Internet Explorer®	
Microsoft® Internet Information Services	IIS
Microsoft® SQL Server® 2014 Express Edition (32-bit)	SQL Server 2014 Express Edition
Network Scanner Admin Tool	Admin Tool
FUJITSU Image Scanner N7100	N7100 (*3)
ScanSnap N1800	N1800 (*3)
FUJITSU Image Scanner iScanner fi-6010N	fi-6010N (*3)

Name	Indication
PaperStream NX Manager	NX Manager

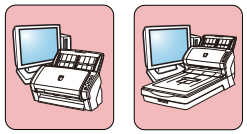
*1: Where there is no distinction between the different versions of the above operating system, the general term "Windows" is used.

*2: Where there is no distinction among Windows Server 2008, Windows Server 2012, Windows Server 2012 R2, and Windows Server 2016, the general term "Windows Server" is used.

*3: Where there is no distinction among N7100, N1800, and fi-6010N, the general term "network scanner" is used.

Symbols Used in This Manual

In this manual, the following symbols are used to describe operations.

Image Scanner 	This symbol represents information specific to an image scanner. An image scanner is a scanner connected to a computer. It is capable of scanning a large number of pages at high speeds and converting them to electronic formats. For the image scanners that can be managed by Scanner Central Admin, refer to the Scanner Central Admin Agent readme.
Image Scanner (with NX Manager)	This symbol represents information specific to an image scanner (operated with NX Manager). An image scanner (operated with NX Manager) is a scanner connected to NX Manager. It is capable of scanning a large number of pages at high speeds and converting them to electronic formats. For the image scanner (with NX Manager) that can be managed by Scanner Central Admin, refer to the Operator's Guide of your scanner model.
Network Scanner	This symbol represents information specific to a network scanner. A network scanner is a scanner connected to a network. It provides user-friendly features that are the most suitable for office work, which can be used by workgroups in offices connected by networks. For the network scanners that can be managed by Scanner Central Admin, refer to the Operator's Guide of your scanner model.

Description of Successive Operations

In the procedures described in this manual, successive operations are connected by "→".

Example: Select the [Start] menu→[All Programs]→[Scanner Central Admin Server]→[Scanner Central Admin Console].

Screenshots Used in This Manual

Microsoft product screenshots are reprinted with permission from Microsoft Corporation.

These screenshots are subject to change without notice in the interest of product improvement.

If the actual screen displayed differs from the screenshots provided in this manual, follow the information on the actual screen while referring to the manual of the software you are using.

The screenshots used in this manual are of Windows 7. The actual windows and operations may differ depending on the operating system.

For Windows Server 2012

To start applications for this product or display Control Panel, use the All apps screen.

The All apps screen is displayed by following the procedure below.

1 Right-click the Start screen.

2 Click [All apps] on the app bar.

For Windows Server 2012 R2/Windows 8.1 Users

To start applications for this product or display Control Panel, use the All apps screen.

The All apps screen is displayed by following the procedure below.

1 Click on the lower left side of the Start screen.

To display , move the mouse cursor.

For Windows 10/Windows Server 2016 Users

To start applications for this product or display Control Panel, follow the procedure below.

To start an application

1 Click the [Start] menu and select an application you want to start.

To display Control Panel

1 Click [Start] menu → [Windows System] → [Control Panel].

Scanner Component Names in This Manual

The button names on the scanner and the name of the display area of the operator panel described in this manual may differ depending on the scanner you are using.
Refer to the Operator's Guide of your scanner model as necessary.

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Chapter 1 Overview of Scanner Central Admin

This chapter describes the features, main functions, and system configuration of Scanner Central Admin.

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1.1 Features of Scanner Central Admin

This section describes the features of Scanner Central Admin.
Scanner Central Admin has the following features:

Installing a Large Number of Scanners in a Short Time

There is no need to set each scanner one by one, because Scanner Central Admin allows you to set multiple scanners at the same time. This contributes to a significant reduction in the time required to install a large number of scanners or change their settings.

Automatically Checking New Update Modules for Scanners

Scanner Central Admin automatically and periodically checks if new update modules for the managed scanners are available on the Web site. When new update modules are available, Scanner Central Admin can notify administrators of the information.

Updating All Scanners at the Same Time

After installing the scanners, you can download the latest driver updates available on the Web site for your scanners and update all scanners at the same time.
There is no need to update each scanner (and computer connected to the scanner individually). In other words, you can simultaneously download the latest driver updates to a large number of scanners in a short time.
You can also update the firmware and applications in the same manner.

Registering All Scanners at the Same Time with Scanner Discovery

You can search in a specified network range for network scanners to be centrally administered and register them automatically.

Monitoring the Operating Status of Scanners in Real Time

You can monitor the operating status of scanners in real time, which allows you to keep track of the number of operating scanners, the ones that need replacement of consumable parts, the ones in which an error has occurred, or the ones that need maintenance.

Centralized Management of Multiple Scanners

You can check a list showing information on multiple scanners, including their model names or the version number of the system/firmware/driver. The scanner information is automatically registered by scanners, allowing a large number of scanners to be centrally managed with ease.

Providing e-Mail Alerts for Consumable Part Replacement and Errors in Scanners

e-Mail alerts for consumable part replacement and errors in scanners are sent to the administrators.
By checking these e-mails, the administrators can act swiftly to take appropriate measures for scanners located at various locations.
The use of e-mail alerts in the administration of scanners can be implemented easily by utilizing the existing e-mail system.

Achieving the Capability to Link with the Integrated Management System

SNMP traps are used to alert the integrated management system about consumable part replacement and errors in scanners.
By checking the SNMP traps sent to the integrated management system, the administrators can act swiftly to take appropriate measures for scanners located at various locations.
The administration of scanners by means of linkage with the integrated management system can be implemented easily by utilizing the existing integrated management system.

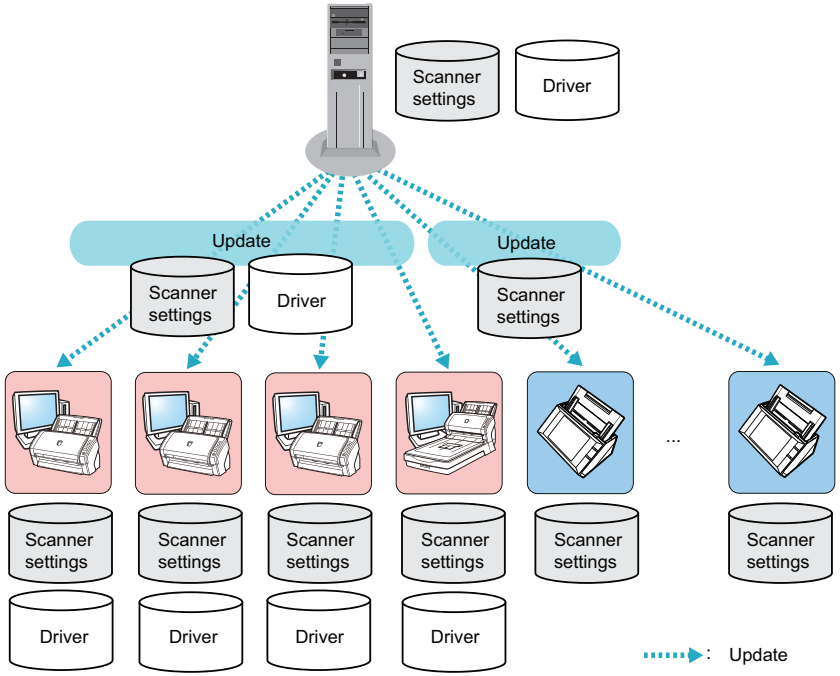
1.2 Main Functions of Scanner Central Admin

This section describes the main functions of Scanner Central Admin.

HINT
For the functional differences among scanner types, refer to "A.5 Functional Comparison among Scanner Types" (page 173).

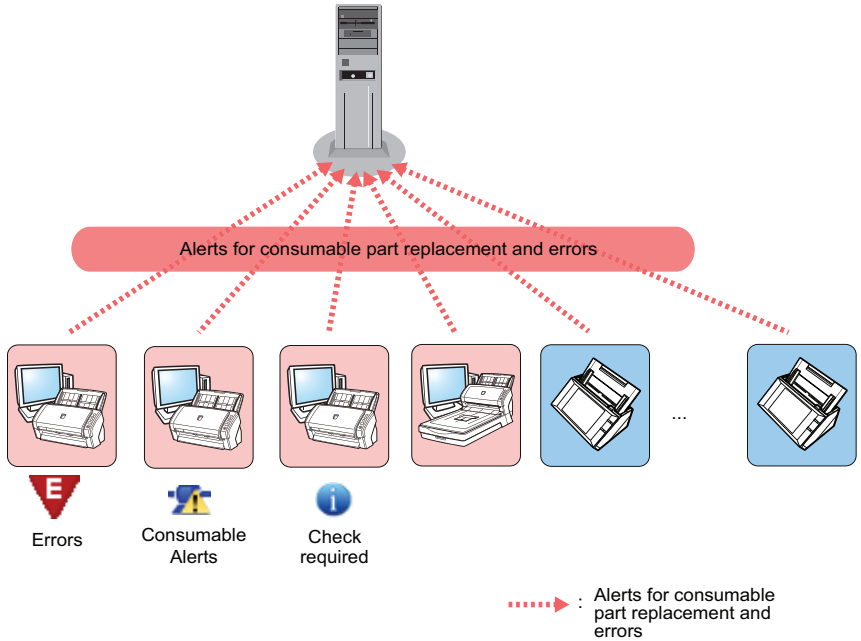
Scanner Update Function

This function provides the capability to simultaneously update settings for multiple scanners and their drivers.
Because there is no need to update each scanner one by one, a significant reduction is achieved in the time required to update a large number of scanners.



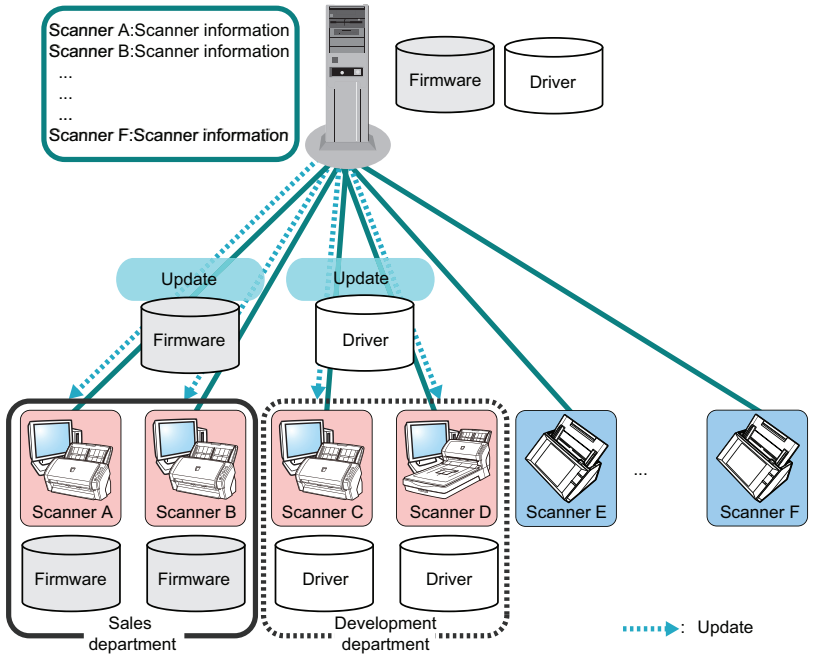
Scanner Monitoring Function

This function provides the capability to monitor the scanners that need replacement of consumable parts, the ones in which an error has occurred, or the ones that need maintenance. You can easily check the operating status of scanners.



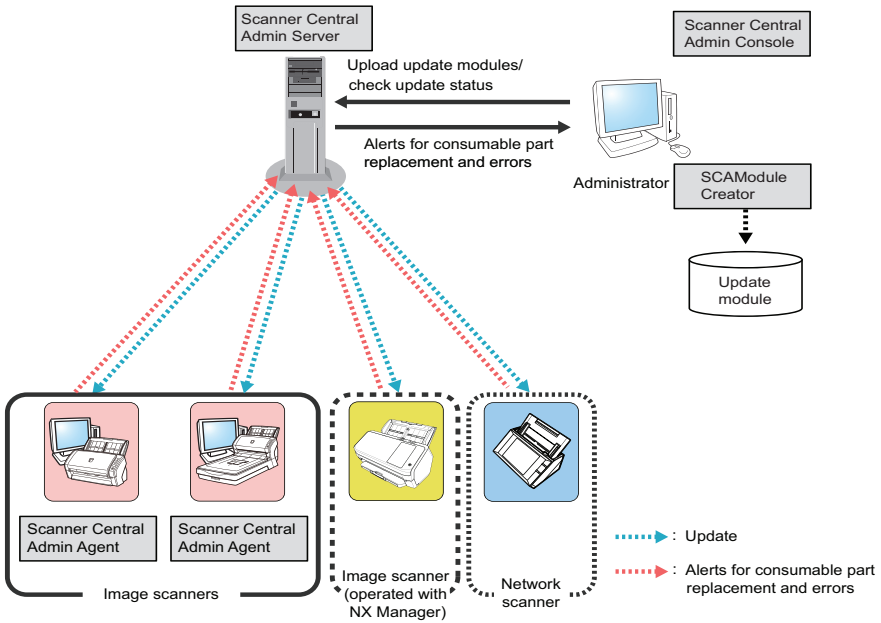
Scanner Management Function

This function provides the capability to manage scanners by checking the scanner information (such as their model names and the version number of the system/firmware/driver) or by sorting scanners into different groups.
Sorting the scanners by department allows the individual departments to update their own scanners.



1.3 System Configuration of Scanner Central Admin

This section describes the system configuration of Scanner Central Admin.



Scanner Central Admin consists of four applications.

- Scanner Central Admin Server

  This application is installed on a computer to be used for the centralized management of scanners.
  By registering scanners on the Scanner Central Admin Server, you can build a system to run a unified management for all scanners.

- Scanner Central Admin Console

  This application is installed on a computer to be used for uploading update modules and monitoring the operating status of scanners.
  The administrators can upload update modules and monitor the operating status of scanners from the Scanner Central Admin Console window.
  This window also shows the alerts sent by scanners for consumable part replacement, errors, and maintenance.

- Scanner Central Admin Agent

  This application is installed on a computer connected to the scanners.
  This application is required for image scanners in order for them to link with the Scanner Central Admin Server.
  This application is not required for image scanners (operated with NX Manager) and network scanners because these scanners are by themselves capable of linking with the Scanner Central Admin Server.
  By linking with the Scanner Central Admin Server, you can apply scanner setting updates to the scanners.
  This application also allows scanners to send alerts for consumable part replacement and errors.

- SCAModuleCreator

  This application is used to create update modules to be uploaded to the Scanner Central Admin Server.

  This application is required only for creating the update modules for image scanners and image scanners (operated with NX Manager).

1.4 Operations of Scanner Central Admin

This section describes the operations of Scanner Central Admin.
Scanner Central Admin can be used with the following to ensure the construction of an optimum system that is appropriate to the number of scanners used, the size of the system, and the existing operating system.

- Scanner Central Admin Server
- e-Mail alerts
- Linking with the integrated management system

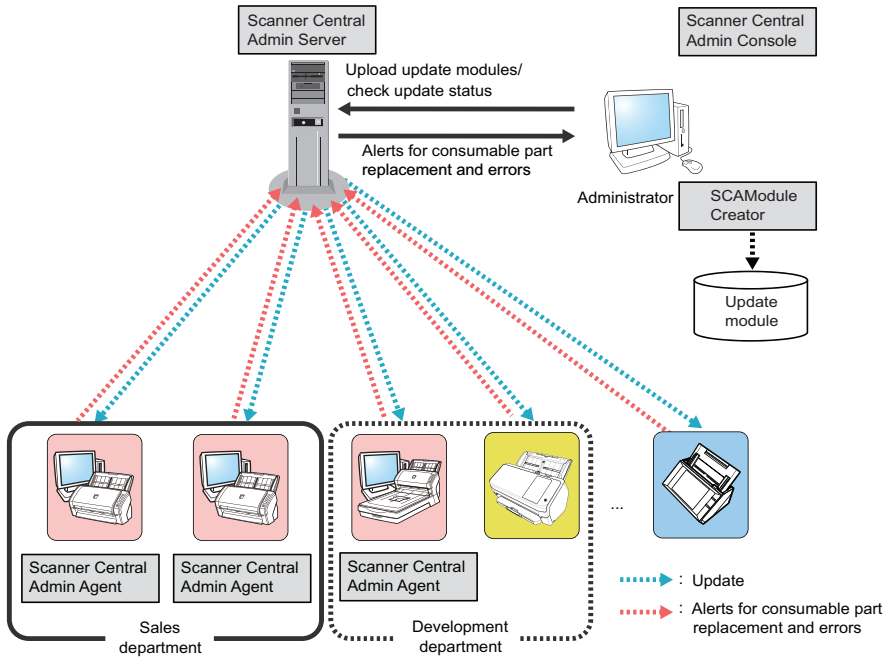
Operations of Scanner Central Admin are described as follows.

HINT
The use of the Scanner Central Admin Server provides a variety of ways to operate scanners. For examples of how to operate scanners, refer to "3.15 Operation Examples" (page 112).

Using the Scanner Central Admin Server

Image Scanner | Image Scanner (with NX Manager) | Network Scanner

This is the centralized management system that is built using the Scanner Central Admin Server, which allows the administrators to manage all scanners centrally from the Scanner Central Admin Console window.



Applications Used

- Scanner Central Admin Server
- Scanner Central Admin Console
- Scanner Central Admin Agent
- SCAModuleCreator

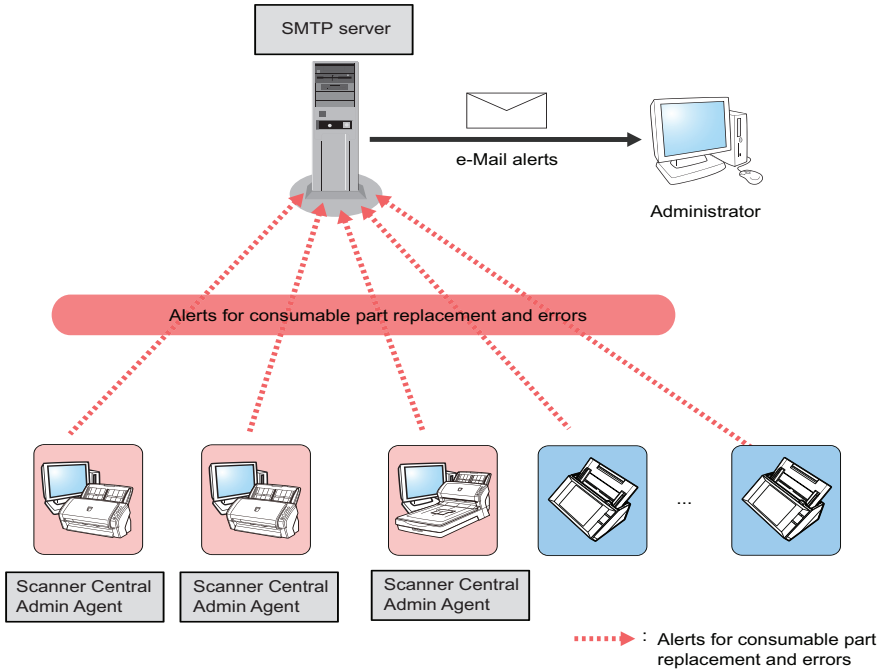
Features

All functions are available, including the scanner update function, scanner monitoring function, and scanner management function.

Using e-Mail Alerts

Image Scanner | Network Scanner

If replacement of consumable parts is necessary or if an error occurs while the scanners are in use, the administrators are alerted by e-mail.
By checking these e-mails, the administrators can act swiftly to take appropriate measures for the scanners.
In this way, you can manage scanners quite easily by utilizing the existing e-mail system.



Applications Used

- SMTP server
- Scanner Central Admin Agent

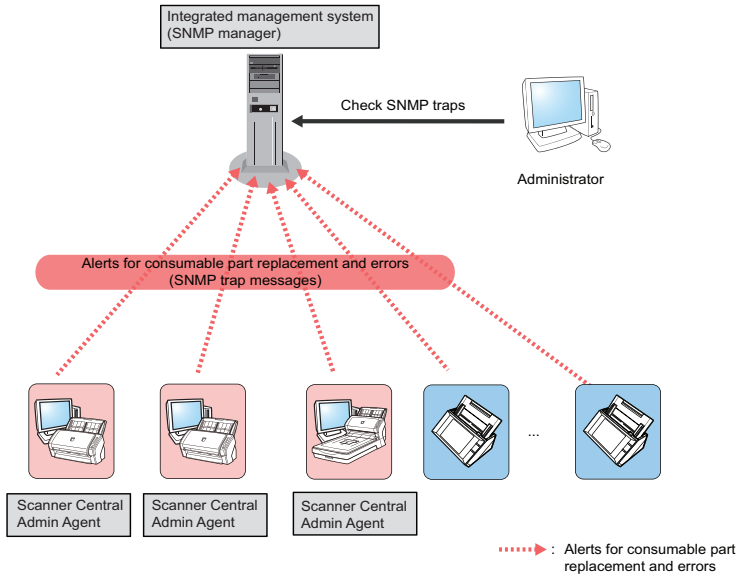
Features

You can use the scanner monitoring function by means of e-mail alerts.

Linking with the Integrated Management System

Image Scanner | Network Scanner

If replacement of consumable parts is necessary or if an error occurs while the scanners are in use, the integrated management system (SNMP manager) is alerted by an SNMP trap.
By checking the SNMP traps sent to the integrated management system (SNMP manager), the administrators can act swiftly to take appropriate measures for the scanners. In this way, you can manage scanners quite easily by utilizing the existing integrated management system.



Applications Used

- Integrated management system (SNMP manager)
- Scanner Central Admin Agent

Features

You can use the scanner monitoring function by means of SNMP trap messages.

1.5 System Requirements

This section describes the system requirements.

Requirements for the Scanner Central Admin Server

For use of the Scanner Central Admin Server, the following requirements apply:

Software

- Operating system (*1)
  - Windows Server® 2008 Standard (32-bit) (Service Pack 2 or later)
  - Windows Server® 2008 Enterprise (32-bit) (Service Pack 2 or later)
  - Windows Server® 2008 R2 Standard (64-bit)
  - Windows Server® 2008 R2 Enterprise (64-bit)
  - Windows Server® 2012 Standard (64-bit)
  - Windows Server® 2012 R2 Standard (64-bit)
  - Windows Server® 2016 Standard (64-bit)
- .NET Framework (*2)
  One of the following versions needs to be installed.
  - .NET Framework 4
  - .NET Framework 4.5
  - .NET Framework 4.6
  - .NET Framework 4.7
- IIS 7.0 or later (*3) (*4)
- SQL Server 2014 Express Edition (Service Pack 2) (*5)
- Microsoft® Windows® Installer 4.5 or later
- Scan to Microsoft SharePoint (*6)

*1: The language for the Scanner Central Admin Server's operating system and the language selected for the network scanner must be the same.

*2: If a notification that .NET Framework is not installed occurs, download .NET Framework from the Microsoft Web site and install it on the computer.

*3: A Web server function of IIS 7.0 or later must be installed.

*4: When installing IIS 7.0 or later, make sure to install the following components.

- IIS-WebServer
  - IIS-CommonHttpFeatures (IIS-StaticContent/ IIS-DefaultDocument/IIS-HttpErrors)
  - IIS-ApplicationDevelopment (IIS-ASPNET/ IIS-NetFxExtensibility/IISISAPIExtensions/IIS-ISAPIFilter)
  - IIS-HealthAndDiagnostics (IIS-HttpLogging/ IIS-RequestMonitor)
  - IIS-Security (IIS-RequestFiltering)
  - IIS-Performance (IIS-HttpCompressionStatic)
- IIS-WebServerManagementTools
  - IIS-ManagementConsole

*5: This software is installed along with the Scanner Central Admin Server.

*6: This software needs to be installed when the Scanner Central Admin Server links with Microsoft Office SharePoint Server.
Download the installer from the following Web site. To download it, an internet connection is required.
https://www.pfu.fujitsu.com/registration/fi-software/en/sms-form.html

ATTENTION

Required software for linkage with N7100

The following requirements for the environment of the Scanner Central Admin need to be met for updating the system preferences and editing the job settings, which include the scan settings.

- Scanner Central Admin Console 3.4 or later
  The version currently installed can be displayed by pressing the [About...] button on the Scanner Central Admin Console window.
- .NET Framework 4.5 or later
  This must be installed in the execution environment where both Scanner Central Admin Server and Scanner Central Admin Console are installed.

HINT

Scanner Central Admin Server and NX Manager can be installed on the same computer.

Hardware

- Any computer that is capable of running the supported software and meets the following requirements

CPU	Intel® Pentium® IV Processor 1.4 GHz or higher (Recommended: 64-bit processor 2.8 GHz or higher) (*1)
Memory	512 MB or more (Recommended: 1 GB or more) (*1)
Disk space	4.2 GB or more of free space

*1: These requirements vary according to the recommended requirements of your operating system.

- XGA monitor or better
- LAN cable

Requirements for the Scanner Central Admin Console/SCAModuleCreator

For use of the Scanner Central Admin Console and SCAModuleCreator, the following requirements apply:

Software

- Operating system
  - Windows Server® 2008 Standard (32-bit/64-bit)
  - Windows Server® 2008 R2 Standard (64-bit)
  - Windows® 7 Home Premium (32-bit/64-bit)
  - Windows® 7 Professional (32-bit/64-bit)
  - Windows® 7 Enterprise (32-bit/64-bit)
  - Windows® 7 Ultimate (32-bit/64-bit)
  - Windows® 8.1 (32-bit/64-bit)
  - Windows® 8.1 Pro (32-bit/64-bit)
  - Windows® 8.1 Enterprise (32-bit/64-bit)
  - Windows Server® 2012 Standard (64-bit)
  - Windows Server® 2012 R2 Standard (64-bit)
  - Windows® 10 Home (32-bit/64-bit)
  - Windows® 10 Pro (32-bit/64-bit)
  - Windows® 10 Enterprise (32-bit/64-bit)
  - Windows® 10 Education (32-bit/64-bit)
  - Windows Server® 2016 Standard (64-bit)

- .NET Framework (*1)
  The version that is required depends on the version of the operating system as shown below.
  - For Windows 8.1/Windows Server 2012/Windows Server 2012 R2/Windows 10/Windows Server 2016
    One of the following versions needs to be installed.
    - .NET Framework 4
    - .NET Framework 4.5
    - .NET Framework 4.6
    - .NET Framework 4.7
  - For Windows 7/Windows Server 2008
    One of the following versions needs to be installed.
    - .NET Framework 2.0 (Service Pack 2 or later)
    - .NET Framework 3.0 (Service Pack 2 or later)
    - .NET Framework 3.5 (Service Pack 1 or later)
- Internet Explorer
  - Internet Explorer 7 or later (*2)

*1: If a notification that .NET Framework is not installed occurs, download .NET Framework from the Microsoft Web site and install it on the computer.

*2: Confirm that the latest security patch has been applied. If not applied, problems with the window display may arise.

ATTENTION
Depending on the environment, some functions are not available.
For details, refer to " Required software for linkage with N7100" (page 24).

Hardware

- Any computer that is capable of running the supported software and meets the following requirements

Memory	32 MB or more (Recommended: 1 GB or more) (*1)
Disk space	64 MB or more of free space

*1: These requirements vary according to the recommended requirement of your operating system.

- XGA monitor or better
- LAN cable
- Pointing device (e.g. mouse)

Requirements for the Scanner Central Admin

Agent

Image Scanner

For use of the Scanner Central Admin Agent, the following requirements apply:

Software

- Operating system
  - Windows Server® 2008 Standard (32-bit/64-bit) (*1)
  - Windows Server® 2008 R2 Standard (64-bit) (*1)
  - Windows® 7 Home Premium (32-bit/64-bit)
  - Windows® 7 Professional (32-bit/64-bit)
  - Windows® 7 Enterprise (32-bit/64-bit)
  - Windows® 7 Ultimate (32-bit/64-bit)
  - Windows® 8.1 (32-bit/64-bit)
  - Windows® 8.1 Pro (32-bit/64-bit)
  - Windows® 8.1 Enterprise (32-bit/64-bit)
  - Windows Server® 2012 Standard (64-bit) (*1)
  - Windows Server® 2012 R2 Standard (64-bit) (*1)
  - Windows® 10 Home (32-bit/64-bit)
  - Windows® 10 Pro (32-bit/64-bit)
  - Windows® 10 Enterprise (32-bit/64-bit)
  - Windows® 10 Education (32-bit/64-bit)
  - Windows Server® 2016 Standard (64-bit) (*1)
- .NET Framework (*2)

  The version that is required depends on the version of the operating system as shown below.
  - For Windows 8.1/Windows Server 2012/Windows Server 2012 R2/Windows 10/Windows Server 2016

    One of the following versions needs to be installed.
    - .NET Framework 4
    - .NET Framework 4.5
    - .NET Framework 4.6
    - .NET Framework 4.7
  - For Windows 7/Windows Server 2008

    One of the following versions needs to be installed.
    - .NET Framework 2.0 (Service Pack 2 or later)
    - .NET Framework 3.0 (Service Pack 2 or later)
    - .NET Framework 3.5 (Service Pack 1 or later)

ATTENTION

Some error messages will appear in English if you use Scanner Central Admin Agent in an environment where Microsoft .NET Framework Language Pack is not installed.

*1: The Desktop Experience feature must be enabled.

*2: If a notification that .NET Framework is not installed occurs, download .NET Framework from the Microsoft Web site and install it on the computer.

To monitor or manage the scanner, the following software must be installed.
To install the following software, install Software Operation Panel.

- PaperStream IP (TWAIN)
- PaperStream IP (TWAIN x64)
- PaperStream IP (ISIS)
- TWAIN driver
- ISIS driver
- VRS

Hardware

- Any computer that is capable of running the supported software and meets the following requirements

CPU	Intel® Pentium® 4 1.8 GHz or higher (Recommended: Intel® Core™ i5 2.5 GHz or higher, excluding mobile processors) (*1)
Memory	1 GB or more (Recommended: 4 GB or more) (*1)
Disk space	2.2 GB or more of free space

*1: These requirements vary according to the recommended requirement of your operating system.

ATTENTION

- For scanner connection or system requirements, refer to the manual (or manuals) of your scanner model.
- For the image scanners that can be managed by Scanner Central Admin, refer to the Scanner Central Admin Agent readme.

- XGA monitor or better
- LAN cable
- Pointing device (e.g. mouse)

Network Requirements for Scanner Central Admin

This section describes the network requirements for Scanner Central Admin.
For Scanner Central Admin, the following network requirements must be met:

- HTTP/HTTPS communication is possible from the Scanner Central Admin Server to the network scanner (when the scanner discovery function or update call function is used).
- HTTP/HTTPS communication is possible from the Scanner Central Admin Agent/image scanner (operated with NX Manager)/network scanner to the Scanner Central Admin Server.
- HTTP/HTTPS communication is possible from the Scanner Central Admin Console to the Scanner Central Admin Server.
- Wake-On-LAN Magic Packet routing is possible from the Scanner Central Admin Server to the network scanner (when Wake-On-LAN is used).
- SMTP communication is possible from the Scanner Central Admin Server/Scanner Central Admin Agent/network scanner to the SMTP server.
- SNMP trap communication is possible from the Scanner Central Admin Agent to the integrated management system.
- HTTP communication is possible from the SCAModuleCreator to the download site (Internet Web site) when acquiring an update module from a download site.
- HTTP communication is possible from the Scanner Central Admin Server to the download site (when the new update checking function is used).

ATTENTION

The following restrictions apply to the connection between the Scanner Central Admin Agent/image scanner (operated with NX Manager)/ network scanner and the Scanner Central Admin Server:

- Communication via an HTTP proxy is not supported.
- Networks where IP addresses are converted using NAT/NAPT are not supported.
- IPv6 environment is not supported.

The Number of Scanners That Can Be Centrally Managed

Up to 1,000 scanners can be centrally managed with the Scanner Central Admin Server.
Once the number of scanners reaches 1,000, no more scanners can be registered for Scanner Central Admin. If there are more than 1,000 scanners, several Scanner Central Admin Servers may be installed, where each server manages no more than 1,000 scanners.

Port Number List

The port numbers used are listed below.

Function	From/To	Port number	Protocol number
Scanner Central Admin Server connection	Scanner Central Admin Server ⇨Network scanner	80 (HTTP) (*1)	6 (TCP)
		443 (HTTPS) (*1)	6 (TCP)
	Scanner Central Admin Agent/image scanner (operated with NX Manager)/network scanner ⇨Scanner Central Admin Server	20444 (HTTP/ HTTPS) (*1)	6 (TCP)
	Scanner Central Admin Console ⇨Scanner Central Admin Server	10444 (HTTP/ HTTPS) (*1) (*6)	6 (TCP)
		10445 (HTTP) (*7)	6 (TCP)
	Scanner Central Admin Server ⇨LDAP Server (*2)	389 (LDAP)	6 (TCP)
		636 (LDAPS)	6 (TCP)
		3268 (Active Directory Global Catalog)	6 (TCP)
		3269 (Active Directory Global Catalog over SSL)	6 (TCP)

Function	From/To	Port number	Protocol number
Scanner Central Admin Server connection	Scanner Central Admin Server ⇨Print server (*2)	137,138,139, 445 (SMB)	6 (TCP) 17 (UDP)
	Scanner Central Admin Server ⇨File server (*2)	137,138,139, 445 (SMB)	6 (TCP) 17 (UDP)
	Scanner Central Admin Server ⇨FTP server (*2)	20,21 (FTP) (*1)	6 (TCP)
	Scanner Central Admin Server ⇨FTPS server (*2)	989,990 (FTPS) (*1)	6 (TCP)
	Scanner Central Admin Server ⇨SMTP server (*2)	25 (SMTP) (*1)	6 (TCP)
	Scanner Central Admin Server ⇨Proxy server (*2)	Free	6 (TCP)
	Scanner Central Admin Server link with SharePoint (*2)	30444 (HTTP/ HTTPS) (*1)	6 (TCP)
	Scanner Central Admin Server ⇨Download site (*5)	80 (HTTP)	6 (TCP)
Sending e-mail	Scanner Central Admin Agent/network scanner ⇨SMTP server	25 (SMTP) (*1)	6 (TCP)
SNMP trap notification (*3)	Scanner Central Admin Agent ⇨Integrated management system (SNMP manager)	162 (snmp-trap)	17 (UDP)
Update module creation (*4)(*5)	SCAModuleCreator ⇨Download site	80 (HTTP)	6 (TCP)
Wake On LAN	Scanner Central Admin Server ⇨Network scanner (*2)	443 (Wake On LAN Magic Packet) (*1)	17 (UDP)

*1: The port number can be changed.
*2: For network scanners.
*3: For image scanners.
*4: For image scanners and image scanners (operated with NX Manager).
*5: When acquiring update information and update modules from the download site.
*6, *7: The port number for (*6) plus the number one equals to the port number for (*7).

Chapter 2 Installation of Scanner Central Admin

This chapter describes the installation of Scanner Central Admin.

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2.2 Installing the Scanner Central Admin Server Software 33
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2.1 Applications Required for Each Operation

Applications required for each operation are shown below.

Operation	Application	Image scanner	Image scanner (operated with NX Manager)	Network scanner
Scanner Central Admin Server	Scanner Central Admin Server	Yes	Yes	Yes
	Scanner Central Admin Console	Yes	Yes	Yes
	Scanner Central Admin Agent	Yes	-	-
	SCAModuleCreator	Yes	Yes	-
e-Mail alerts	SMTP server (*1)	Yes	-	Yes
	Scanner Central Admin Agent	Yes	-	-
Linking with the integrated management system	Integrated management system (SNMP manager) (*2)	Yes	-	Yes
	Scanner Central Admin Agent	Yes	-	-

Yes : Necessary

- : Not necessary

*1 : An existing e-mail system is used.

*2 : An existing integrated management system is used.

Install the applications required for each operation.

For details about how to install the individual applications, refer to the following sections:

- Scanner Central Admin Server
  "2.2 Installing the Scanner Central Admin Server Software" (page 33)
- Scanner Central Admin Console/SCAModuleCreator
  "2.3 Installing the Scanner Central Admin Console" (page 35)

- Scanner Central Admin Agent

  "2.4 Installing the Scanner Central Admin Agent" (page 37)

ATTENTION

When you use Scanner Central Admin, update Scanner Central Admin Server, Scanner Central Admin Console, Scanner Central Admin Agent, image scanner drivers, and image scanner (operated with NX Manager)/ network scanner software to the latest versions.
If they are not the latest versions, you may not be able to use some functions of Scanner Central Admin.

2.2 Installing the Scanner Central Admin Server Software

Install the Scanner Central Admin Server software on a computer to be used for the centralized management of scanners.

1 Make sure that the system requirements for the Scanner Central Admin Server are met.
For details about the system requirements for the Scanner Central Admin Server, refer to "Requirements for the Scanner Central Admin Server" (page 23).

2 Start the computer.

ATTENTION
Log on to the computer as a user with Administrator privileges.

1 Download the Scanner Central Admin Server installer from the following web page.
An internet connection is required for downloading.

http://www.fujitsu.com/global/support/computing/peripheral/scanners/drivers/sca.html

2 Proceed to Step 3.

ATTENTION
Free disk space must be 4.2 GB or more, which includes 1 GB that is required to install SQL Server 2014 Express Edition.

3 Install the application by following the instructions displayed in the window.
The settings shown below are required during the process. Determine the port number and protocol to be used in advance.

- Port number for scanner communication
- Port number for Scanner Central Admin Console communication
- Scanner Shared Folder Service port number

To change the port number and protocol settings after installation, use the [Scanner Central Admin Server Settings] window in the Scanner Central Admin Console.

4 When the installation is complete, a dialog box appears, prompting you to restart the computer. Restart the computer.

ATTENTION
- If the Scanner Central Admin Server is already installed, skip to "2.3 Installing the Scanner Central Admin Console" (page 35).
- If a previous version of Scanner Central Admin Server is already installed, upgrade it. With upgrade installation, all of the previous Scanner Central Admin Server settings are automatically carried over. However, as a precaution, it is still recommended that the old settings be backed up before proceeding with the upgrade installation. For details about how to back up the Scanner Central Admin Server settings, refer to "Backing Up Scanner Central Admin Server Settings" (page 139).
- Set the correct date and time for the computer installed with the Scanner Central Admin Server and the Scanner Central Admin Console. If the date/time difference between the values set in the computer and actual values is large, normal operation may not be possible.
- When Scanner Central Admin Server is installed, the AMMANAGER instance of SQL Server 2014 Express Edition is installed. The AMMANAGER instance of SQL Server 2014 Express Edition is necessary for the operation of Scanner Central Admin Server, so do not change or uninstall it.

HINT

- Specify a folder in a local disk for the installation folder.
- Do not install the Scanner Central Admin Server directly under a root folder. Doing so may result in the Scanner Central Admin Server not operating normally.
- Do not use the following characters for the installation folder name. If you use the following characters, the Scanner Central Admin Server may not operate normally.
  ;,.#%
- To install the Scanner Central Admin Server software on Windows Server 2008, log in as an administrator.
- If the following error message appears, installation was not successful:
  An installation package for the product Microsoft SQL Server Native Client cannot be found. Try the installation agent using a valid copy of the installation package 'sqlncli.msi'.
  In this case, uninstall "SQL Server Native Client". Then, try installing the Scanner Central Admin Server software again.
- If the installation process fails and the following error message appears, stop the IIS service (w3svc.exe) and re-start manually. Then, reinstall the Scanner Central Admin Server software.
  The installation process was canceled because the system was busy. Try restarting the Installation Wizard again later.
- If the error message below appears in Windows Server 2008 or later, check that IIS Management Console is installed. If IIS Management Console is not installed, select and install IIS Management Console in [Role Services].
  Installation requires that IIS Management Console be installed. Refer to the manual for details.
  To select the role services for IIS, select [Administrative Tools] → [Server Manager], and select [Web Server (IIS)] in [Roles Summary].
- Because the Scanner Central Admin Server uses HTTPS to communicate with the Scanner Central Admin Console or to receive data from scanners, a self-signed certificate is automatically imported into the computer. However, it is recommended that a formal certificate be installed manually. For details, refer to "Importing the Certificate (for HTTPS)" (page 45).

- If an interruption or error occurs during the installation or uninstallation process, the following programs may be installed:
  - AMMANAGER instance of Microsoft SQL Server 2014
  - Microsoft SQL Server Native Client
  - Microsoft SQL Server Setup Support Files
  - Microsoft SQL Server VSS Writer
  - MSXML 6.0 Parser

  In this case, uninstall the programs described above.
  For details about uninstalling the programs, the following is a description of the process using Windows Server 2012 as an example.

  To uninstall a program, select [Control Panel]→[Programs and Features].
  Use the following procedure to uninstall "Microsoft SQL Server 2014 AMMANAGER instance".
  1. Select [Microsoft SQL Server 2014 (64-bit)] in the list of [Programs and Features], and press the [Uninstall/Change] button.
  2. Follow the instructions on the screen.
     For the instance, select [AMMANAGER: Database Engine].

  For programs other than "Microsoft SQL Server 2014 AMMANAGER instance", deletion is not necessary as they are used by other applications.
- If the following changes are to be made after the Scanner Central Admin Server has been installed, uninstall the Scanner Central Admin Server software, and reinstall after making the changes:
  - The Scanner Central Admin Server is to be used as the Active Directory domain controller
  - The domain controller role assignment is to be deleted

2.3 Installing the Scanner Central Admin Console

Install the Scanner Central Admin Console on a computer to be used to upload update modules or monitor the operating status of scanners.
The SCAModuleCreator is installed at the same time as the Scanner Central Admin Console.

1 Make sure that the system requirements for the Scanner Central Admin Console are met.
For details about the system requirements for the Scanner Central Admin Console, refer to "Requirements for the Scanner Central Admin Console/SCAModuleCreator" (page 24).

2 Start the computer.

ATTENTION
Log on to the computer as a user with Administrator privileges.

1 Download the installer for Scanner Central Admin Console from the web page below.
To download the installer, you need to be able to access the internet.
http://www.fujitsu.com/global/support/computing/peripheral/scanners/drivers/sca.html

2 Proceed to Step 3.

3 Install the application by following the instructions displayed in the window.

4 After the installation is complete, select the [Start] menu→[All Programs]→[Scanner Central Admin Server]→[Scanner Central Admin Console] and make sure that the Scanner Central Admin Console window appears.

ATTENTION
- From the Internet Explorer [Tools] menu, select [Internet Options], and note the following points on the settings shown in the [Internet Options] dialog box.
  - In the [Accessibility] dialog box shown when pressing the [Accessibility] button on the [General] tab, do not change the formatting and user style sheet settings. If these settings are changed, the displayed style of the Scanner Central Admin Console may be corrupted.
  - In the [Language Preference] dialog box shown when pressing the [Languages] button on the [General] tab, move the same language as that of the Scanner Central Admin Server's operating system to the top. If a different language is specified, a problem may occur with the input or displays for the Scanner Central Admin Console.
  - In computers with Internet Explorer 11 already installed, some window items of the Scanner Central Admin Console may not appear properly.
    In this case, select [Trusted sites] in the [Security] tab, press the [Sites] button, and add the IP address, host name, or FQDN of the Scanner Central Admin Server in the [Trusted sites] window. Then, press the [Delete] button in the [General] tab to delete temporary files and history files, and then restart the Scanner Central Admin Console.
  - On the [Security] tab, if [Security level for this zone] is set to [High], part of the Scanner Central Admin Console window may not be correctly displayed.
    In this case, perform the following:
    - On the [Security] tab, add Scanner Central Admin Server to trusted sites and press the [Default Level] button.
    - Press the [Custom Level] button and check [Enable] for [Binary and script behaviors] and [XAML Browser Application].

- On the [Advanced] tab, select the [Play animations in webpages] check box under [Multimedia].
  In Windows Server, this check box is not selected by default.

- When the font size is large, part of the dialog box may not be shown correctly. In this case, use a smaller font size.

HINT

- Specify a folder in a local disk for the installation folder.
- Do not install the Scanner Central Admin Console directly under a root folder. Doing so may result in the Scanner Central Admin Console not operating normally.
- Do not use the following characters for the installation folder name. If you use the following characters, the Scanner Central Admin Console may not operate normally.
  / ; : , . * ? " < > | # %

2.4 Installing the Scanner Central Admin Agent

Image Scanner

Install the Scanner Central Admin Agent on a computer connected to scanners.
You can install the Scanner Central Admin Agent using one of the following three options:

- Standard installation

  With this option, the Scanner Central Admin Agent is installed from the Setup DVD-ROM to the computer connected to the scanners.

- Installation with automatic setting/registration processing

  This option offers an easy way of installing and setting the Scanner Central Admin Agent for many computers.
  Export the Scanner Central Admin Agent settings in advance so that the Scanner Central Admin Agent is automatically set as it is installed.
  If the Scanner Central Admin Agent settings linked with the Scanner Central Admin Server are used, scanners are automatically registered as the Scanner Central Admin Agent is installed.

- Silent installation for operation linked with the integrated management system

  With this option, the Scanner Central Admin Agent is installed on all computers by using the application distribution function provided by the integrated management system.
  Export the Scanner Central Admin Agent settings in advance so that the Scanner Central Admin Agent is automatically set as it is installed.
  If the Scanner Central Admin Agent settings for which SNMP trap messages are enabled are used, SNMP trap messages become available as the Scanner Central Admin Agent is installed.

Installation options are described as follows.

ATTENTION

- Scanner Central Admin Agent is not certified to run on a Terminal Services client or Remote Desktop Connection client.
- If the driver and Software Operation Panel are not installed, the status of the scanner and information about the scanner are not notified to Scanner Central Admin Server.
- Do not back up a disk image of a computer in which the Scanner Central Admin Agent is installed to restore the disk image on another computer. The Scanner Central Admin Agent does not operate on a computer that is created from a disk image.

Standard Installation

1 Make sure that the system requirements for the Scanner Central Admin Agent are met.
For details about the system requirements for the Scanner Central Admin Agent, refer to "Requirements for the Scanner Central Admin Agent" (page 26).

2 Start the computer.

ATTENTION
Log on to the computer as a user with Administrator privileges.

3 Insert the Setup DVD-ROM supplied with the scanner into the DVD drive.

4 Follow the instructions on the windows to install the Scanner Central Admin Agent.

5 After the installation is complete, select the [Start] menu→[All Programs]→[Scanner Central Admin Agent]→[Scanner Central Admin Agent Setup] and make sure that the [Scanner Central Admin Agent] window appears.

HINT
- Specify a folder in a local disk for the installation folder.
- Do not install the Scanner Central Admin Agent directly under a root folder. Doing so may result in the Scanner Central Admin Agent not operating normally.
- Do not use the following characters for the installation folder name. If you use the following characters, the Scanner Central Admin Agent may not operate normally.
/ ; : , . * ? " < > | # %

Installation with Automatic Setting/Registration Processing

1 Export the Scanner Central Admin Agent settings from the computer on which the Scanner Central Admin Agent is installed.
For details about how to export the Scanner Central Admin Agent settings, refer to "Creating an Update Module of Scanner Settings" (page 65).

2 Make sure that the computer on which the Scanner Central Admin Agent is to be installed meets the system requirements for the Scanner Central Admin Agent.
For details about the system requirements for the Scanner Central Admin Agent, refer to "Requirements for the Scanner Central Admin Agent" (page 26).

3 Start the computer.

ATTENTION
Log on to the computer as a user with Administrator privileges.

4 From the Setup DVD-ROM provided with the scanner, copy the Scanner Central Admin Agent Installer folder to external storage such as an USB memory stick.
The Scanner Central Admin Agent installer is saved in the ScannerCentralAdmin\ScannerCentralAdminAgent folder on the Setup DVD-ROM.

5 Copy the Scanner Central Admin Agent settings exported in Step 1 to the Scanned Central Admin Agent installer [Setting] folder that was copied in Step 4.

6 Start the Scanner Central Admin Agent installer "Setup.exe" from the Scanner Central Admin Agent installer folder that was copied in Step 4.

7 Install the application by following the instructions displayed in the window.

8 After the installation is complete, select the [Start] menu→[All Programs]→[Scanner Central Admin Agent]→[Scanner Central Admin Agent Setup] and make sure that the [Scanner Central Admin Agent] window appears.
⇨ The Scanner Central Admin Agent is set automatically as it is installed.
If the Scanner Central Admin Agent settings linked with the Scanner Central Admin Server are used, the scanners are automatically registered as the Scanner Central Admin Agent is installed.

9 Repeat Steps 6 to 8 on multiple computers.
⇨ The Scanner Central Admin Agent is installed and set in multiple computers.

Silent Installation for Operation Linked with the Integrated Management System

1 Use a computer on which the Scanner Central Admin Agent is installed to verify that the SNMP trap messages work fine.

2 Export the Scanner Central Admin Agent settings.
For details about how to export the Scanner Central Admin Agent settings, refer to "Creating an Update Module of Scanner Settings" (page 65).

3 Make sure that the computer on which the Scanner Central Admin Agent is to be installed meets the system requirements for the Scanner Central Admin Agent.
For details about the system requirements for the Scanner Central Admin Agent, refer to "Requirements for the Scanner Central Admin Agent" (page 26).

4 From the Setup DVD-ROM provided with the scanner, copy the Scanner Central Admin Agent installer folder and register it in the integrated management system.
The Scanner Central Admin Agent installer is saved in the ScannerCentralAdmin\ScannerCentralAdminAgent folder on the Setup DVD-ROM.

5 Copy the Scanner Central Admin Agent settings exported in Step 2 to the [Setting] folder in the Scanner Central Admin Agent installer folder registered in Step 4.

6 Specify the parameters required to perform silent installation using the Scanner Central Admin Agent installer.

- Command executable format

```
Setup.exe [-silent] [-d
{Scanner_Central_Admin_Agent_installation_folder_name}]
```

The italic text represents variable character strings.

Specify -silent when you are executing silent installation.

If you omit this parameter, do not specify the subsequent parameters.

-d specifies the Scanner Central Admin Agent installation folder.

If you omit this parameter, the application is installed in a default folder.

This parameter takes effect only when the application is installed for the first time.

- Return value
  - 0

    Succeeded
  - 10

    Startup parameter error
  - Other than 0 and 10

    Other errors
- Precautions

  If you copy the Scanner Central Admin Agent settings to the [Setting] folder in the Scanner Central Admin Agent installer folder, and then start the installation, the Scanner Central Admin Agent settings are automatically imported.

7 The Scanner Central Admin Agent installer is distributed from the integrated management system.

⇨ The Scanner Central Admin Agent is installed on all computers managed by the integrated management system.
The Scanner Central Admin Agent is set automatically as it is installed. If the Scanner Central Admin Agent settings for which SNMP trap messages are enabled are used, SNMP trap messages become available as the Scanner Central Admin Agent is installed.

Chapter 3 Using the Scanner Central Admin Server

This chapter describes operation using the Scanner Central Admin Server.

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3.15 Operation Examples 112

3.1 Scanner Central Admin Server Quick Guide

This section provides a quick guide for the Scanner Central Admin Server.

Pre-settings for the Scanner Central Admin Server
- Installing the Scanner Central Admin Server Software
- Importing the Certificate (for HTTPS)
- Setting up a Firewall

For details, refer to "3.2 Pre-settings for the Scanner Central Admin Server" (page 45).

Pre-settings for the Scanner Central Admin Console
- Installing the Scanner Central Admin Console
- Installing the Error Recovery Guide

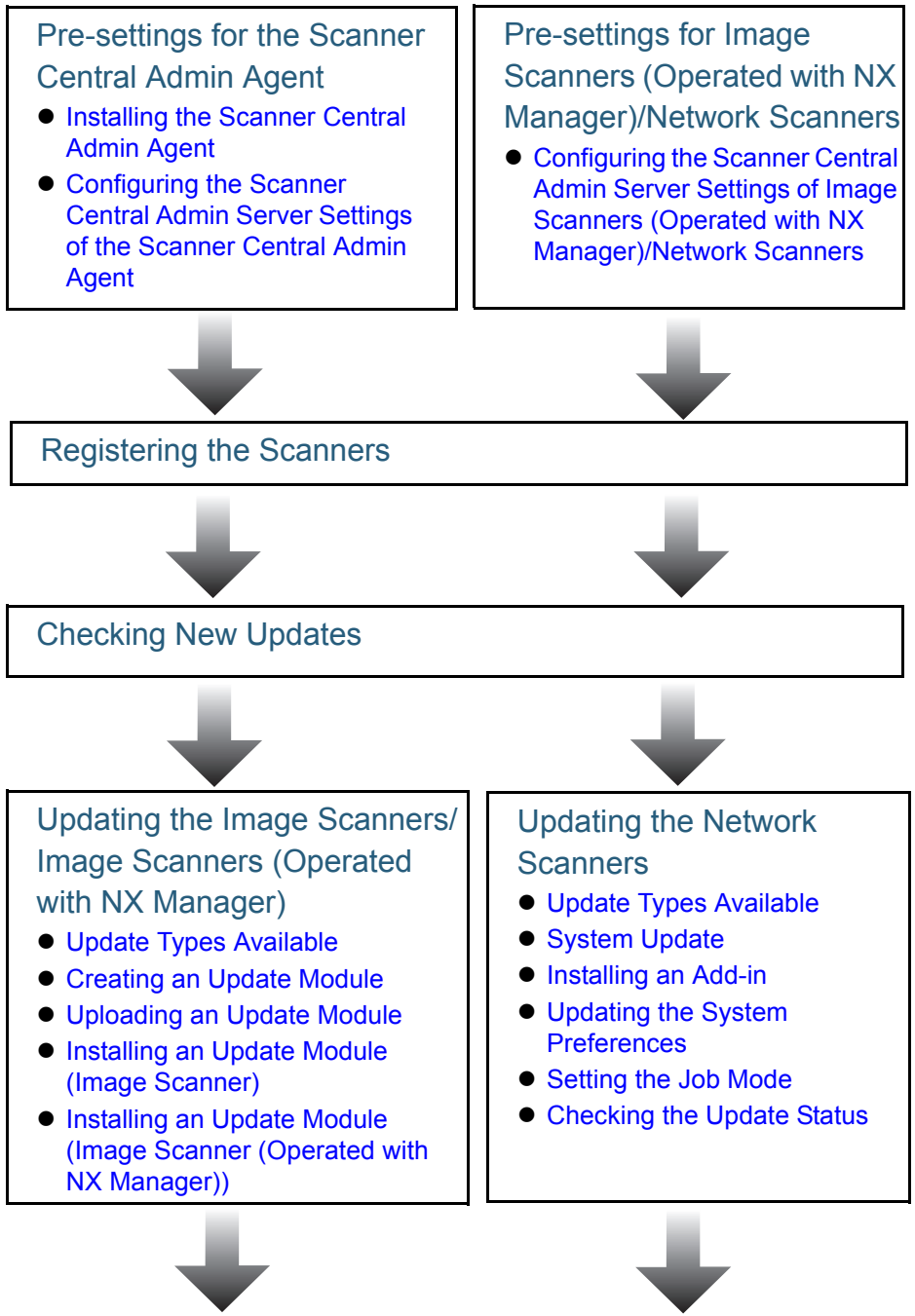
For details, refer to "3.3 Pre-settings for the Scanner Central Admin Console" (page 48).

Login from the Scanner Central Admin Console

For details, refer to "3.4 Login from the Scanner Central Admin Console" (page 49).

Configuring the Operating Environment for the Scanner Central Admin Server
- Common Settings
- Network Scanner Settings

For details, refer to "3.5 Configuring the Operating Environment for the Scanner Central Admin Server" (page 52).



Pre-settings for the Scanner Central Admin Agent are required for using image scanners.
For details, refer to "3.6 Pre-settings for the Scanner Central Admin Agent" (page 54).

Pre-settings for image scanners (operated with NX Manager)/network scanners are required for using image scanners (operated with NX Manager)/network scanners.
For details, refer to "3.7 Pre-settings for Image Scanners (Operated with NX Manager)/Network Scanners" (page 56).

For details, refer to "3.8 Registering the Scanners" (page 57).

For details, refer to "3.9 Checking for New Updates" (page 58).

For details about updating image scanners and image scanners (operated with NX Manager), refer to "3.10 Updating the Image Scanners/Image Scanners (Operated with NX Manager)" (page 60).

For details about updating network scanners, refer to "3.11 Updating the Network Scanners" (page 71).

Monitoring the Scanners

- Monitoring the Scanner Network
- Monitoring the Scanner Operating Status
- Viewing the Statistical Information
- Viewing Event Log
- Collecting and Exporting Audit Logs

Managing the Scanners

- Scanner Configuration
- Adding Scanner Configuration
- Editing Scanner Configuration
- Deleting Scanner Configuration
- Editing a Group
- Exporting Scanner Configuration
- Importing Scanner Configuration
- Network Scanner Auto Discovery/Network Scanner Registration
- Checking Scanner Details

Maintaining the Scanners

For details, refer to "3.12 Monitoring the Scanners" (page 81).

For details, refer to "3.13 Managing the Scanners" (page 88).

For details, refer to "3.14 Maintaining the Scanners" (page 111).

3.2 Pre-settings for the Scanner Central Admin Server

This section describes the pre-settings for the Scanner Central Admin Server.

Installing the Scanner Central Admin Server Software

Install the Scanner Central Admin Server software on a computer to be used for the centralized management of scanners.
For details about installing the Scanner Central Admin Server software, refer to "2.2 Installing the Scanner Central Admin Server Software" (page 33).

Importing the Certificate (for HTTPS)

If HTTPS is used for communication, import the certificate.
This section uses Windows Server 2012 as an example.

1. Select the [Start] menu→[Administrative Tools]→[Internet Information Services (IIS) Manager].
   ⇨ IIS Manager starts.
2. Select the server certificate in the IIS Manager home screen.
3. Select the import operation.
4. Follow the instructions displayed in the window.

HINT

For Windows Server 2008 or later, set the fingerprint for the imported certificate in the CertHash.xml file.

- The CertHash.xml installation path is as follows.

Scanner_Central_Admin_Server_installation_folder\AmManager\Sys\CertHash.xml

- An example for setting the fingerprint for the certificate "cc ce a0 66 e3 9c 9b 2a 65 45 03 a3 c4 f4 e5 e6 ad ec df 9f" is as follows.

```
<?xml version="1.0" encoding="utf-8" ?>
<IISPolicy>
  <CertHash>cc ce a0 66 e3 9c 9b 2a 65 45 03 a3 c4 f4 e5 e6 ad ec df 9f</CertHash>
</IISPolicy>
```

Setting up a Firewall

Set up a firewall.
Set the following port numbers for communication in the Scanner Central Admin Server to enable management by the Scanner Central Admin Console.

Function	From/To	Port number	Protocol number
Scanner Central Admin Server connection	Scanner Central Admin Agent/ image scanner (operated with NX Manager)/network scanner ⇨Scanner Central Admin Server	20444 (HTTP/HTTPS) Port number set for [Scanner Communication Port Number] in the [Scanner Central Admin Server Settings (Common Settings)] window of the Scanner Central Admin Console	6 (TCP)

Function	From/To	Port number	Protocol number
Scanner Central Admin Server connection	Scanner Central Admin Console ⇨Scanner Central Admin Server	10444 (HTTP/HTTPS) Port number set for [Scanner Central Admin Console Communication Port Number] in the [Scanner Central Admin Server Settings (Common Settings)] window of the Scanner Central Admin Console, and the port number that is set	6 (TCP)
		10445 (HTTP) Port number set for [Scanner Central Admin Console Communication Port Number] in the [Scanner Central Admin Server Settings (Common Settings)] window of the Scanner Central Admin Console plus the number one	6 (TCP)

For details about setting a firewall, refer to the manual for the relevant firewall.

3.3 Pre-settings for the Scanner Central Admin Console

This section describes the pre-settings for the Scanner Central Admin Console.

Installing the Scanner Central Admin Console

Install the Scanner Central Admin Console on a computer to be used to upload update modules or monitor the operating status of scanners.
For details about installing the Scanner Central Admin Console, refer to "2.3 Installing the Scanner Central Admin Console" (page 35).

Installing the Error Recovery Guide

Image Scanner | Image Scanner (with NX Manager)

Install the Error Recovery Guide on a computer where the Scanner Central Admin Console is installed.
If an error occurs in a scanner, pressing the [Error Details] button in the [Event Details] window shows the "Error Recovery Guide" corresponding to the scanner error.
The Error Recovery Guide provides information on how to deal with errors.

1 Make sure that the system requirements for the Scanner Central Admin Console are met.
For details about the system requirements for the Scanner Central Admin Console, refer to "Requirements for the Scanner Central Admin Console/SCAModuleCreator" (page 24).

2 Start the computer.

ATTENTION
Log on to the computer as a user with Administrator privileges.

3 Insert the Setup DVD-ROM supplied with the scanner into the DVD drive.

4 Follow the instructions on the windows to install the Error Recovery Guide.

HINT
When multiple scanner models are to be managed, install the Error Recovery Guide for each scanner.
For the image scanners that can be managed by Scanner Central Admin, refer to the following:
- For image scanners
  Scanner Central Admin Agent readme
- For image scanners (operated with NX Manager)
  Operator's Guide of your scanner model

3.4 Login from the Scanner Central Admin Console

Login from the Scanner Central Admin Console.
The administrators can upload update modules and monitor the operating status of scanners from the Scanner Central Admin Console window.
This window also shows the alerts sent by scanners for consumable part replacement, errors, and maintenance.

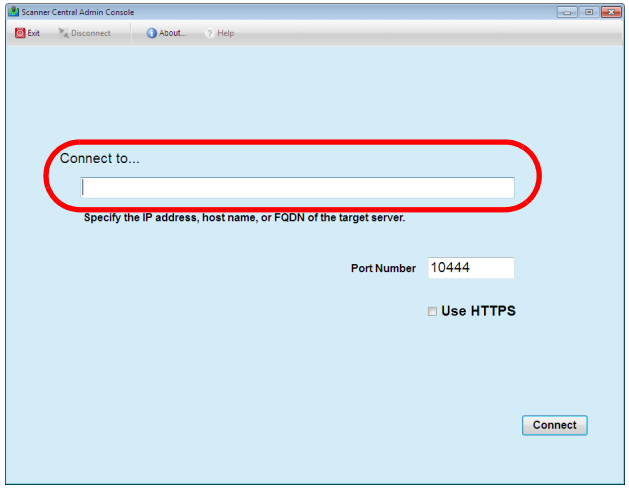
ATTENTION
If the normal screen display does not appear (for example: an "X" mark appears), wait a few minutes and try again. For the network settings where Internet Explorer 6.0 is installed and HTTPS is used to connect to the Scanner Central Admin Server, clear the [Do not save encrypted pages to disk] check box in [Tools] → [Internet Options] → [Advanced] in Internet Explorer, and try again. If the problem still occurs, contact your FUJITSU scanner dealer or an authorized FUJITSU scanner service provider.

HINT
Session timeout time is 20 minutes (fixed). Selecting links and buttons extends the session timeout time by 20 minutes. However, the session timeout time is extended automatically when the [Scanner Admin Operations] window or [Scanner Operation Monitor] window of the Scanner Central Admin Console is shown, so as not to result in a session timeout.

1 Select the [Start] menu→[All Programs]→[Scanner Central Admin Server]→[Scanner Central Admin Console].
⇨ The Scanner Central Admin Console window appears.

2 Set the [Connect to] field.
Enter the IP address, host name, or FQDN of the Scanner Central Admin Server.

- For an IP address
  The format xxx.xxx.xxx.xxx should be used. (xxx is a value from 0 to 255.)
- For a host name or FQDN
  Up to 128 characters may be entered.



ATTENTION

- If the port number was changed in [Scanner Central Admin Console Communication Port Number] in the [Scanner Central Admin Server Settings (Common Settings)] window of the Scanner Central Admin Console, enter the port number changed for [Port Number].
- To use SSL, select the [Use HTTPS] check box.
- If Scanner Central Admin Console is started while there is insufficient free memory, a script error may occur. Try again after ensuring that there is enough free memory.
- For Windows Server, when first connecting to the Scanner Central Admin Server, a confirmation window for whether or not to add the specified URL to the trusted site zone may appear. In this case, after adding the Scanner Central Admin Server URL as a trusted site, close the Scanner Central Admin Console once, and re-open.

3 Press the [Connect] button.

⇨ The Scanner Central Admin Console login window appears.

ATTENTION

Depending on the settings in your security software, a warning message may appear for using the port number that you specified.

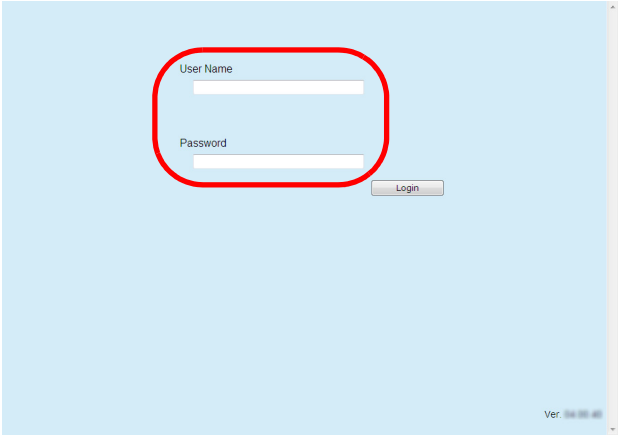
4 Enter the user name and password of the administrator.

The default user name and password for the administrator are set as follows:

User Name: admin

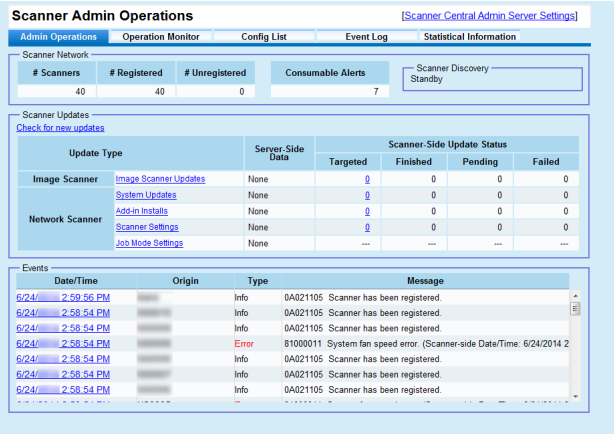
Password : password

The password of the administrator can be changed in the [Scanner Central Admin Server Settings (Common Settings)] window. Change the password regularly.



5 Press the [Login] button.

⇨ If the user is authenticated, the Scanner Central Admin Console main window appears.



HINT

The main window shown after login can be changed.
To change the main window shown after login, change the default screen in the Scanner Central Admin Console [Scanner Central Admin Server Settings (Common Settings)] window.

3.5 Configuring the Operating Environment for the Scanner Central Admin Server

This section describes the configuration of the Scanner Central Admin Server operating environment.
The operating environment settings for the Scanner Central Admin Server consist of the following two categories:

- Common settings
  These are the Scanner Central Admin Server settings commonly used for the scanner types.
- Network scanner settings
  These are the Scanner Central Admin Server settings specific to network scanners.

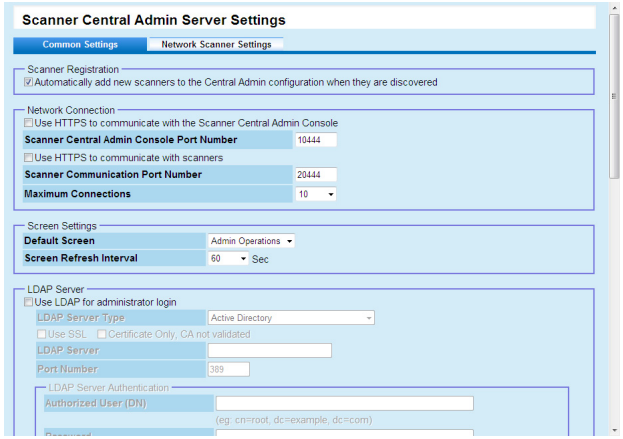
The following describes each settings category of the Scanner Central Admin Server operating environment.

Common Settings

Configure the Scanner Central Admin Server settings commonly used for the scanner types, by changing the administrator password and setting the network.

1 Click the [Scanner Central Admin Server Settings] link on the Scanner Central Admin Console main window.
⇨ The [Scanner Central Admin Server Settings] window appears.

2 Press the [Common Settings] tab.
⇨ The [Scanner Central Admin Server Settings (Common Settings)] window appears.



3 Configure the desired settings.
For information about the settings, refer to the Scanner Central Admin Console Help.

4 Press the [OK] button.
⇨ This enables the settings, and the Scanner Central Admin Console main window appears again.

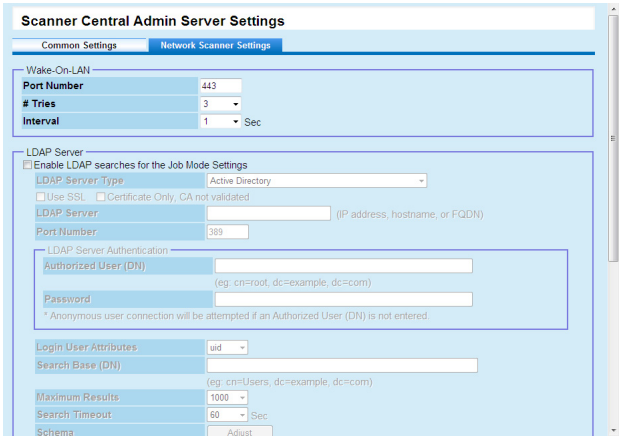
Network Scanner Settings

Network Scanner

Configure the Scanner Central Admin Server settings specific to network scanners, such as LDAP and SharePoint server settings, and clear selected user roaming data.

1. Click the [Scanner Central Admin Server Settings] link on the Scanner Central Admin Console main window.
   ⇨ The [Scanner Central Admin Server Settings] window appears.

2. Press the [Network Scanner Settings] tab.
   ⇨ The [Scanner Central Admin Server Settings (Network Scanner Settings)] window appears.



3. Configure the desired settings.
   For information about the settings, refer to the Scanner Central Admin Console Help.

4. Press the [OK] button.
   ⇨ This enables the settings, and the Scanner Central Admin Console main window appears again.

3.6 Pre-settings for the Scanner Central Admin Agent

Image Scanner

This section describes the pre-settings for the Scanner Central Admin Agent.

Installing the Scanner Central Admin Agent

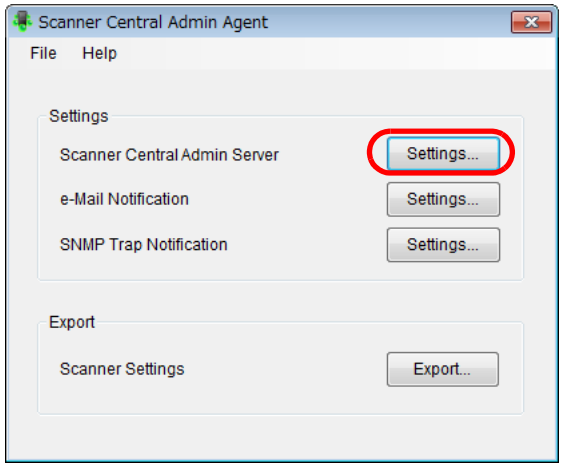
Install the Scanner Central Admin Agent on a computer connected to scanners.
For details about installing the Scanner Central Admin Agent, refer to "2.4 Installing the Scanner Central Admin Agent" (page 37).

Configuring the Scanner Central Admin Server Settings of the Scanner Central Admin Agent

Configure the Scanner Central Admin Server settings of the Scanner Central Admin Agent.
This allows a computer connected to a scanner to link to the Scanner Central Admin Server.

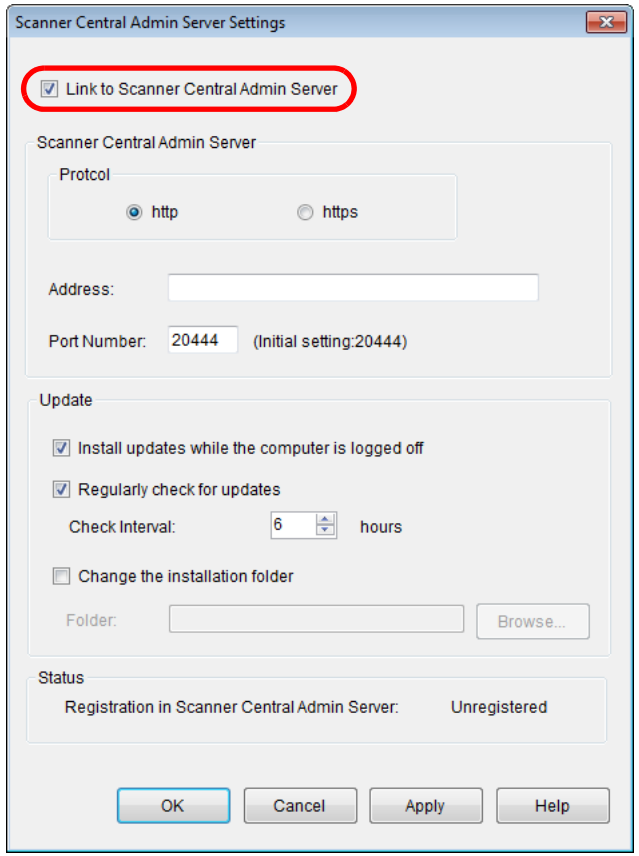
1. Select the [Start] menu→[All Programs]→[Scanner Central Admin Agent]→[Scanner Central Admin Agent Setup].
   ⇨ The [Scanner Central Admin Agent] window appears.

2. Press the [Settings] button for [Scanner Central Admin Server].



⇨ The [Scanner Central Admin Server Settings] window appears.

3 Select the [Link to Scanner Central Admin Server] check box.

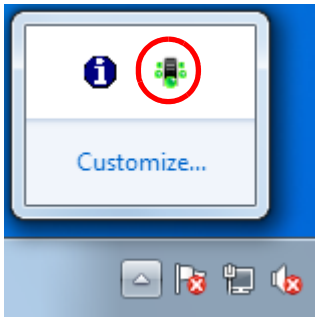


4 Configure the Scanner Central Admin Server and update settings.

For information about the settings, refer to the Scanner Central Admin Agent Help.

5 Press the [OK] button.

⇨ This enables the settings, and the [Scanner Central Admin Agent] window appears again.
The Scanner Central Admin Agent icon appears in the notification area. The notification area is located at the far right of the task bar.



ATTENTION

- Depending on your system environment, it may take some time to complete the settings after the [OK] button is pressed.
- Depending on the settings in your security software, a warning message may appear for using the port number that you specified.

3.7 Pre-settings for Image Scanners (Operated with NX Manager)/ Network Scanners

Image Scanner (with NX Manager) | Network Scanner

This section describes the pre-settings for image scanners (operated with NX Manager) and network scanners.

Configuring the Scanner Central Admin Server Settings of Image Scanners (Operated with NX Manager)/Network Scanners

Configure the Scanner Central Admin Server settings for image scanners (operated with NX Manager)/network scanners.
This allows scanners to link to Scanner Central Admin Server.
For more details, refer to the Operator's Guide of your scanner model.

3.8 Registering the Scanners

Scanners can be registered in the Scanner Central Admin Server by linking them to the Scanner Central Admin Server.

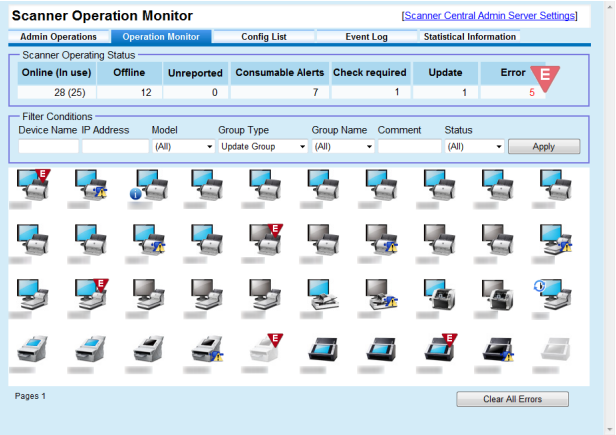
1 Configure a scanner so that it can link to the Scanner Central Admin Server.

For details about how to configure an image scanner, refer to "Configuring the Scanner Central Admin Server Settings of the Scanner Central Admin Agent" (page 54).

For details about how to configure an image scanner (operated with NX Manager) and a network scanner, refer to "Configuring the Scanner Central Admin Server Settings of Image Scanners (Operated with NX Manager)/Network Scanners" (page 56).

2 In the Scanner Central Admin Console [Scanner Operation Monitor] window, check that the scanner is registered in the Scanner Central Admin Server.

Check that the icon of the scanner you have registered is shown in the scanner operation monitor view.



3.9 Checking for New Updates

By using the Scanner Central Admin Console window, you can periodically check if update modules for scanners, managed by the Scanner Central Admin Server are available on the Web site.

Settings for Checking Update Modules

Configure settings required to check new update modules.

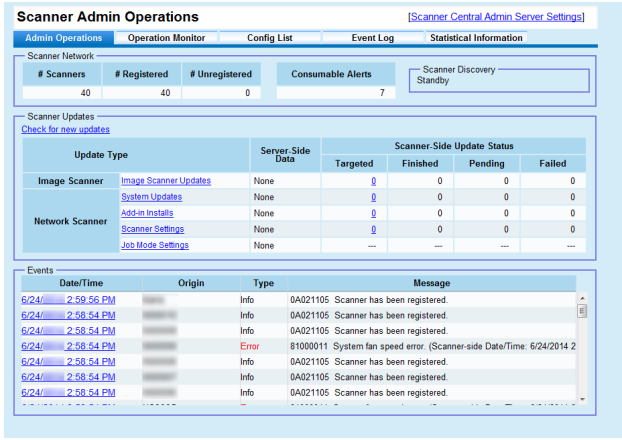
1 Configure each setting under [Check for Updates] on the [Scanner Central Admin Server Settings (Common Settings)] window of the Scanner Central Admin Console.
For details about the setting items, refer to the Scanner Central Admin Console Help.

⇨ Scanner Central Admin Server follows the set contents to connect to the Web site and to periodically check if update modules are available.

Checking for Update Modules

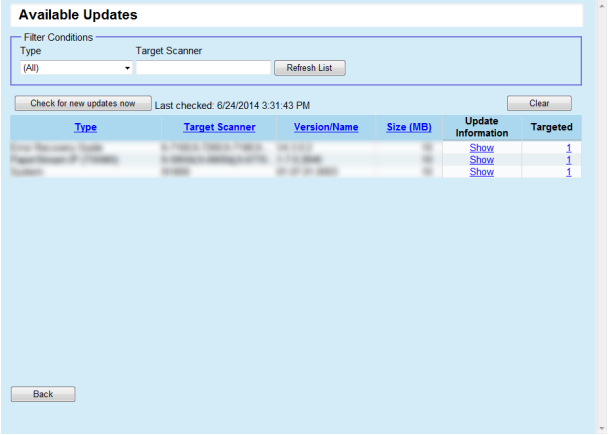
Check if new update modules for scanners are available.

1 Click the "Check for new updates" or "New updates are available" link on the Scanner Central Admin Console main window.



⇨ The [Available Updates] window appears.

2 Check the information of new update modules.



ATTENTION

You can check if new update modules are available for software and firmware installed on the managed scanners.
Even if new update modules are available on the Web site, only update modules for the software that is installed on the scanners appear in the list.

3.10 Updating the Image Scanners/Image Scanners (Operated with NX Manager)

Image Scanner | Image Scanner (with NX Manager)

This section describes the procedure for updating an image scanner and an image scanner (operated with NX Manager). Uploading update modules to the Scanner Central Admin Server allows the firmware or drivers to be updated.

Update Types Available

Available update types are as follows:

Type	Description	Scanner Type	
		Image Scanner	Image Scanner (Operated with NX Manager)
Firmware	Firmware of a scanner	Yes	Yes
Driver	Driver of a scanner	Yes	-
Software	Software provided with a scanner	Yes	-
Settings	Settings of the scanner or other software	Yes	Yes
User Application	Application created by a user	Yes	-

Yes: Update available

-: Not available

ATTENTION

For image scanners, if the status of the computer connected to the scanner is as follows, no settings are distributed.

- The scanner has been disconnected once after it has been registered
- An unsupported scanner is connected

The settings are distributed only once to the computer connected to the scanner. If distributed on the computer connected to the scanner again, delete all settings from the Scanner Central Admin Server, and then register the settings created again.

HINT

The length of time required for a software update is estimated as follows:

$$\frac{\text{Update module size} \times \text{No. of target scanners} \times 1.5}{\text{Network throughput}}$$

Example: the following update case should be estimated as:

$$\frac{15 \times 40 \times 1.5}{1} = 900 \text{ seconds (15 minutes)}$$

- Update module size: 15 MB
- Number of target scanners: 40
- Network throughput: 8 Mbps = 1 MB/s

Creating an Update Module

This section describes how to create an update module that can be uploaded to the Scanner Central Admin Server.
You can use either of the following four ways to create an update module to be uploaded to the Scanner Central Admin Server:

- Creating an update module from an update file available on a Web site

  You can use SCAModuleCreator to convert an update file available on a Web site into an update module that can be uploaded to the Scanner Central Admin Server.
- Creating an update module from an installation program included on the Setup DVD-ROM supplied with the scanner

  You can use SCAModuleCreator to convert an installation program on the Setup DVD-ROM supplied with the scanner into an update module that can be uploaded to the Scanner Central Admin Server.
- Creating an update module from a user application

  You can use SCAModuleCreator to convert a user-created application into an update module that can be uploaded to the Scanner Central Admin Server.
- Creating an update module of scanner settings

  You can use exported scanner settings as an update module that can be uploaded to the Scanner Central Admin Server.

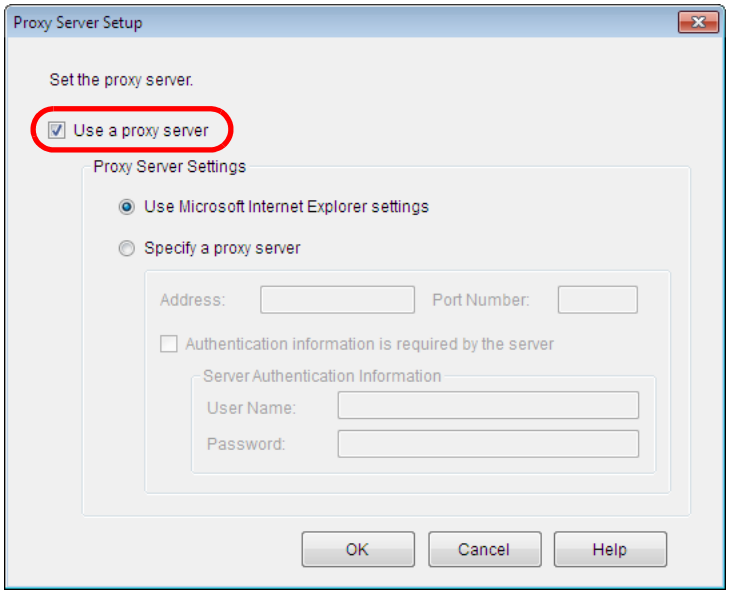
The following explains each way of creating an update module.

■Creating an Update Module from an Update File Available on a Web Site

1 Select the [Start] menu→[All Programs]→[Scanner Central Admin Server]→[SCAModuleCreator].
⇨ The [SCAModuleCreator] window appears.

2 For a network that does not use a proxy server, proceed to Step 6.
For a network that uses a proxy server, select the [Settings] menu→[Proxy Server Setup].
⇨ The [Proxy Server Setup] window appears.

3 Select the [Use a proxy server] check box.

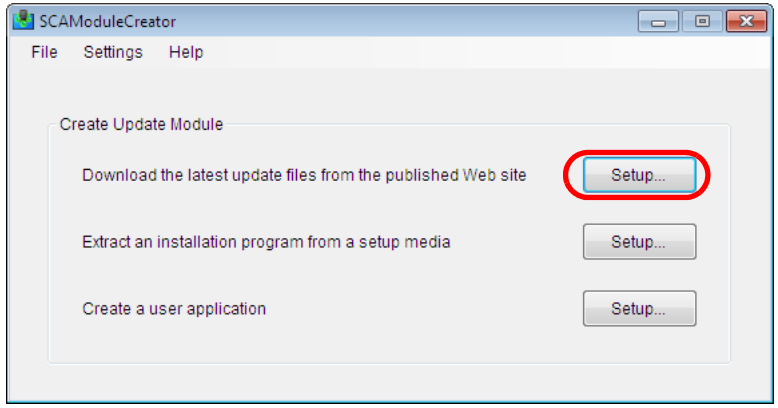


4 Configure the proxy server settings.
For information about the settings, refer to the SCAModuleCreator Help.

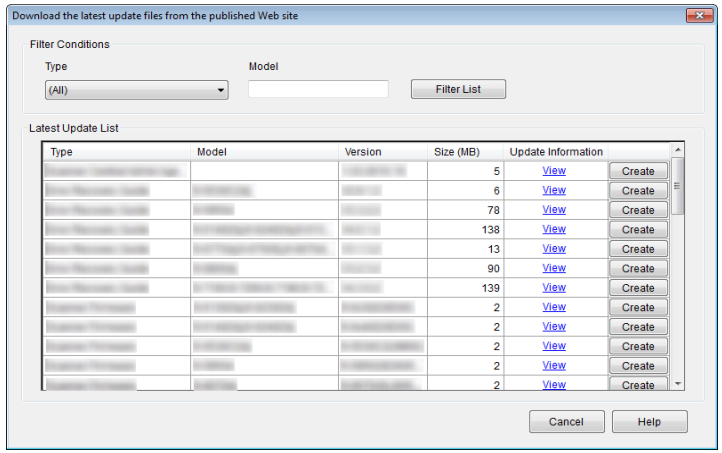
5 Press the [OK] button.

⇨ This enables the settings, and the [SCAModuleCreator] window appears again.

6 Press the [Setup] button for [Download the latest update files from the published Web site].



⇨ The [Download the latest update files from the published Web site] window appears.



7 To filter update files shown in the list, specify filter conditions and press the [Filter List] button.

⇨ The update files satisfying the filter conditions appear.

8 Press the [Create] button for the desired update file.

⇨ When the [License Agreement] window appears, proceed to Step 9.
When the [Save As] dialog box appears, proceed to Step 11.

9 Select the [I accept the terms in the license agreement.] check box.

10 Press the [Next] button.

⇨ The [Save As] dialog box appears.

11 Specify the location where the file is to be saved.

12 Press the [Save] button.

⇨ A message window appears when the creation of the update module is completed.

13 Press the [OK] button.

⇨ The [Download the latest update files from the publicized Web site] window appears again.

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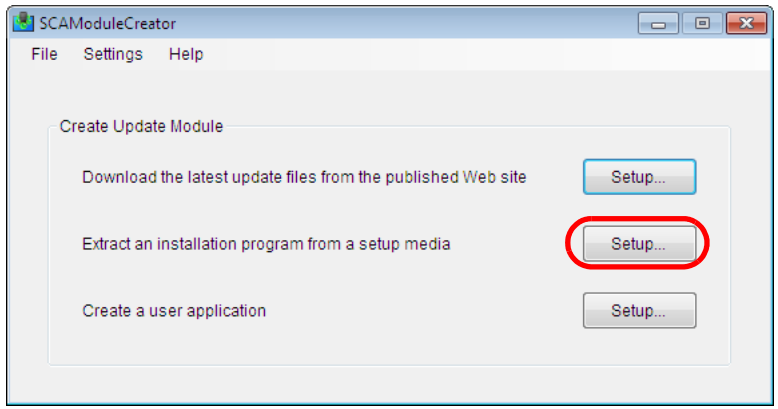
Glossary

■Creating an Update Module from an Installation Program Included on the Setup DVD-ROM Supplied with the Scanner

1 Select the [Start] menu→[All Programs]→[Scanner Central Admin Server]→[SCAModuleCreator].

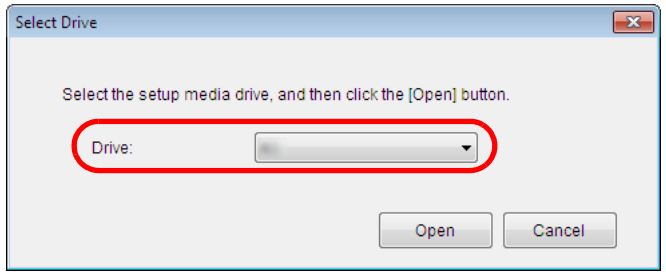
⇨ The [SCAModuleCreator] window appears.

2 Press the [Setup] button for [Extract an installation program from a setup media].



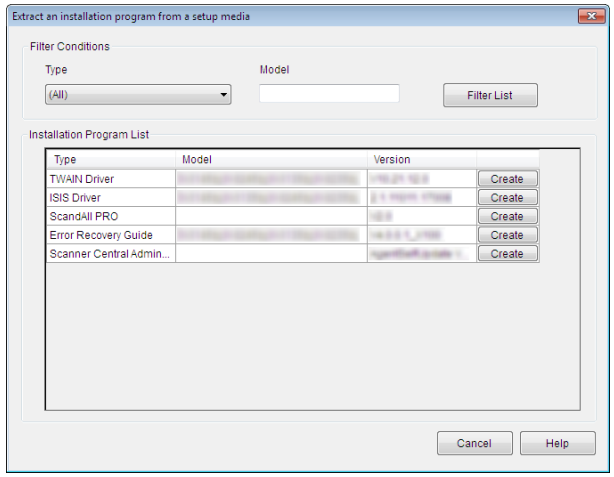
⇨ The [Select Drive] window appears.

3 Select [Drive].



4 Press the [Open] button.

⇨ The [Extract an installation program from a setup media] window appears.



5 To filter installation programs shown in the list, specify filter conditions and press the [Filter List] button.

⇨ The installation programs satisfying the filter conditions appear.

6 Press the [Create] button for the desired installation program.

⇨ When the [License Agreement] window appears, proceed to Step 7.

When the [Save As] dialog box appears, proceed to Step 9.

7 Select the [I accept the terms in the license agreement.] check box.

8 Press the [Next] button.

⇨ The [Save As] dialog box appears.

9 Specify the location where the file is to be saved.

10 Press the [Save] button.

⇨ A message window appears when the creation of the update module is completed.

11 Press the [OK] button.

⇨ The [Extract an installation program from a setup media] window appears again.

■Creating an Update Module from a User Application

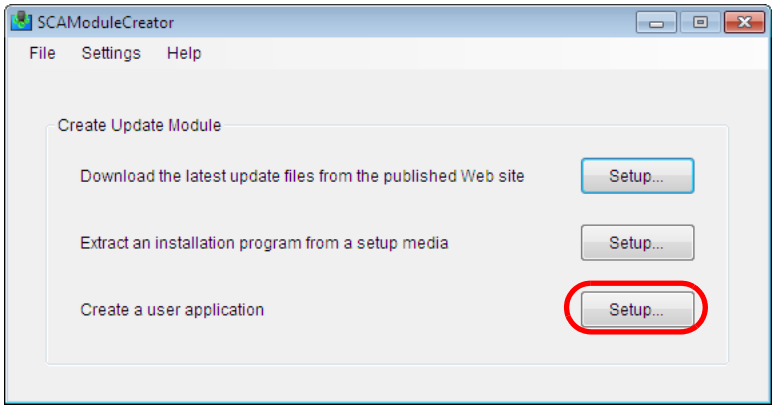
Programs that have been created by the user can be registered as update modules. Note the following points when creating a user application.

- While the update is being installed, interactive processes between the update module and the user cannot be performed. Do not perform a process that requests action from the user, for example, by requiring a response to a confirmation message when overwriting a file, or requesting the user to restart the computer.
- When installing an update, success/failure is determined by the return value from the user application. Create the application so that the execution result is notified by return value (0: succeeded, other than 0: failed).
- Does not write to registry or create resources for individual users.

1 Select the [Start] menu→[All Programs]→[Scanner Central Admin Server]→[SCAModuleCreator].

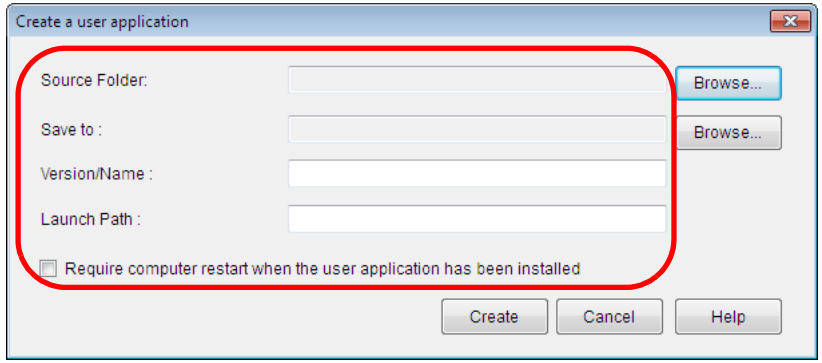
⇨ The [SCAModuleCreator] window appears.

2 Press the [Setup] button for [Create a user application].



⇨ The [Create a user application] window appears.

3 Specify the source folder, target folder, version/name, installer path, and other settings.
For information about the settings, refer to the SCAModuleCreator Help.



4 Press the [Create] button.
➪ A message window appears when the creation of the update module is completed.

5 Press the [OK] button.
➪ The [Create a user application] window appears again.

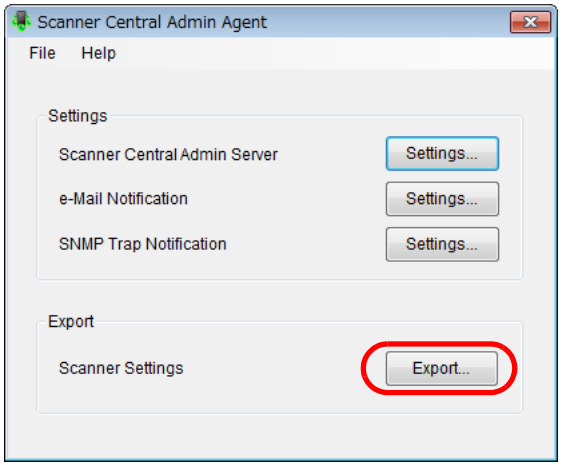
■Creating an Update Module of Scanner Settings

You can use exported scanner settings as an update module that can be uploaded to the Scanner Central Admin Server.

Export the scanner settings from a computer where the Scanner Central Admin Agent is installed.

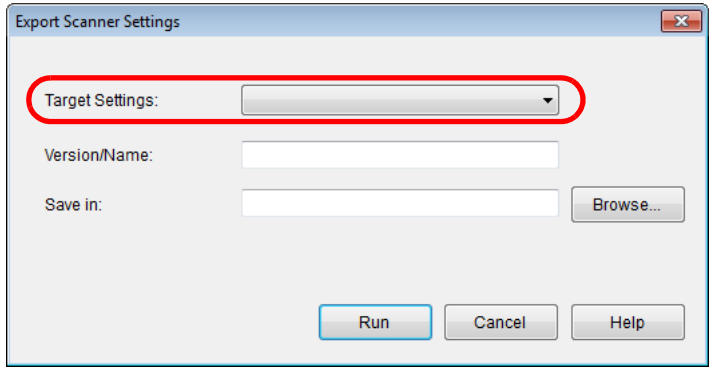
1 Select the [Start] menu→[All Programs]→[Scanner Central Admin Agent]→[Scanner Central Admin Agent Setup].
➪ The [Scanner Central Admin Agent] window appears.

2 Click the [Export] button for [Scanner Settings].



➪ The [Export Scanner Settings] window appears.

3 For [Target Settings], select the settings to export.



4 Specify [Version/Name] and [Save in].
For information about the settings, refer to the Scanner Central Admin Agent Help.

5 Press the [Run] button.
⇨ A message window appears when export of the scanner settings is completed.

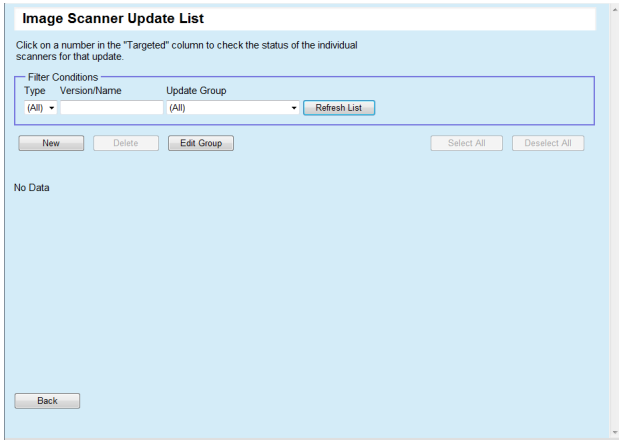
6 Press the [OK] button.
⇨ The [Export Scanner Settings] window appears again.

Uploading an Update Module

Update modules can be uploaded to the Scanner Central Admin Server in the Scanner Central Admin Console window.

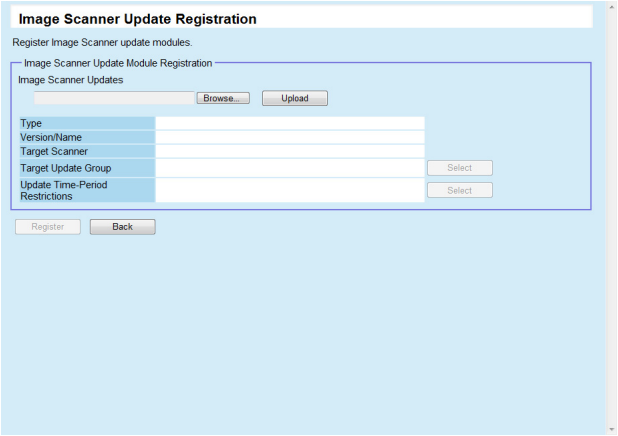
1 Press the [Admin Operations] tab in the Scanner Central Admin Console main window.
⇨ The [Scanner Admin Operations] window appears.

2 Select the [Image Scanner Updates] link.
⇨ The [Image Scanner Update List] window appears.



3 Press the [New] button.

⇨ The [Image Scanner Update Registration] window appears.



4 Press the [Browse] button to specify the image scanner update module file.

ATTENTION

Update modules exceeding 1 GB cannot be uploaded.

5 Press the [Upload] button to upload the specified image scanner update module.

6 Press the [Select] button for [Target Update Group] to select the settings group to be processed by the image scanner update.

ATTENTION

For a single settings group, only one update module can be uploaded for each type.

HINT

Update groups that are set to the scanner can be changed in one go. For details, refer to "Editing a Group" (page 106).

7 To change the update time-period, press the [Select] button for [Update Time-Period Restrictions] to configure the settings.

The default value is the value that was set for [Software Update Time-Period Restrictions] in the [Scanner Central Admin Server Settings (Common Settings)] window.

8 Press the [Register] button.

⇨ A message window appears when upload of the image scanner update module is completed.

HINT

When multiple updates are registered, the pending updates are performed in the following order:

1 Firmware
2 Driver
3 Software
4 Settings
5 User application

9 Press the [OK] button.

⇨ The [Image Scanner Update List] window appears again.

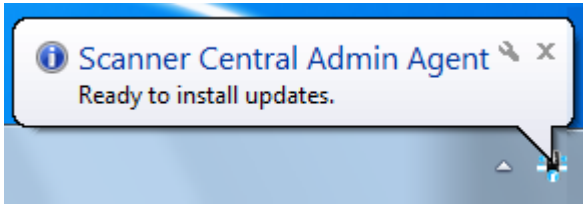
Installing an Update Module (Image Scanner)

After uploaded to the Scanner Central Admin Server, the update module is downloaded to the scanner when one of the following occurs:

- The computer connected to the scanner is logged on.
- On the computer connected to the scanner, [Install Updates] is selected from the right-click menu of the Scanner Central Admin Agent icon in the notification area.
- The [Regularly check for updates] check box has been selected in the Scanner Central Admin Agent [Scanner Central Admin Server Settings] window, and the time specified in [Check Interval] has elapsed.
- The [Install updates while the computer is logged off] check box has been selected in the Scanner Central Admin Agent [Scanner Central Admin Server Settings] window, and the computer connected to the scanner is logged off.

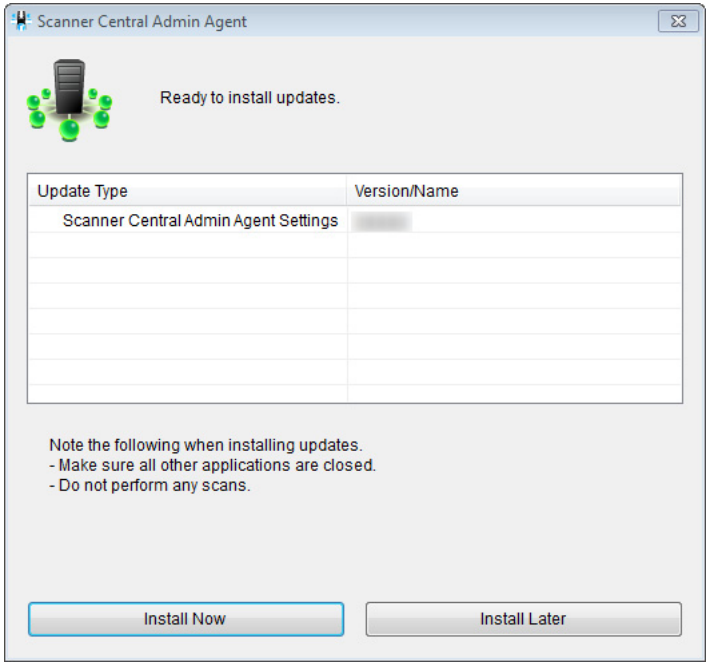
To install update modules manually, perform the following procedure:

1 After update modules are downloaded, click the Scanner Central Admin Agent icon in the notification area.



⇨ A window asking whether or not to install update modules appears.

2 If you want to install the update modules now, press the [Install Now] button.
If the relevant scanner is in use and you do not want to install the update modules now, press the [Install Later] button.



The following icons are displayed during the update:

Icon for the Status	Description
	Updates are being installed. This icon flashes during the process.
	Waiting for updates to be installed.
	Updates were installed successfully.
	Updates failed to be installed.

Icon for the Status	Description
	Installing updates is not necessary. Use the scanner without installing updates. This icon is displayed in the following cases: ● The same version or the latest version is already installed ● The updates are not applicable for your scanner model

ATTENTION

- If no driver is installed, the update modules of firmware or Software Operation Panel settings are not installed.
- For a single settings group, only one update module can be uploaded for each type.
- If multiple update modules are to be installed, pressing the [Stop] button suspends the process after the current update module installation has completed.
- After the driver update has completed, make sure to restart the computer. If the computer is not restarted, the driver may not recognize the scanner.
- To install firmware update modules, if Software Operation Panel is started, an error that the scanner is not connected may appear. When the Software Operation Panel icon appears in the notification area, exit the Software Operation Panel, and then install the firmware update modules.
- If updates are set to be installed while the computer is logged off, update modules for firmware and Software Operation Panel configuration will not be installed.
- Do not shut down or log off the computer while installing an update module. The update module may not be installed correctly.

Installing an Update Module (Image Scanner (Operated with NX Manager))

Install update modules by following the instructions displayed in the touch panel of the scanner.

Checking the Update Status

Status details of update modules can be viewed in the Scanner Central Admin Console window.

1. Press the [Admin Operations] tab in the Scanner Central Admin Console main window.
   ⇨ The [Scanner Admin Operations] window appears.

2. Select the [Targeted] numerical link in [Image Scanner Updates].
   ⇨ The [Update Status List] window appears.

3. Check the update status list of the image scanner.
   For information about the settings, refer to the Scanner Central Admin Console Help.

3.11 Updating the Network Scanners

Network Scanner

This section describes the procedure for updating a network scanner.
Uploading update modules to the Scanner Central Admin Server allows the system and Add-ins to be updated.

Update Types Available

Available update types are as follows:

Type	Description	First-time installation
System	The scanner system, security, and installed options	Not supported
Add-in	Add-in to be installed on the scanner	Available
System Preferences	Information about scanner system preferences	Not supported
Job Mode Settings	Information about job mode settings	Available

System Update

In the Scanner Central Admin Console window, the system, security, and installed options can be updated by uploading a new system update module and setting update calls.
For more details, refer to the Operator's Guide of your scanner model.

The new system update module will be released, and applied to the scanners when one of the following occurs:

- Scanner is started, or resumed from standby mode
- Scanner is logged out
- Scanner is notified of any update modules
- Scanner has an automatic update scheduled

Updates can be applied to the scanners that are in power-off or standby mode using Wake-On-LAN.
In the following cases, update modules cannot be registered.

- The module type is either a system or security option, and the same or upgraded module version has already been registered.

HINT

The length of time required for a software update is estimated as follows:

$$\frac{\text{Update module size} \times \text{No. of target scanners} \times 1.5}{\text{Network throughput}}$$

Example: the following update case should be estimated as:

$$\frac{15 \times 40 \times 1.5}{1} = 900 \text{ seconds (15 minutes)}$$

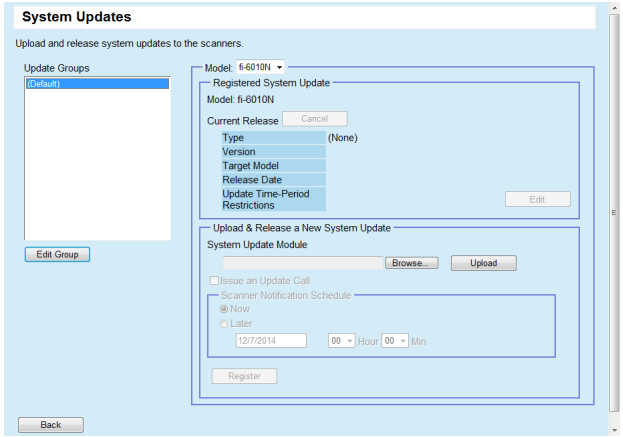
- Update module size: 15 MB
- Number of target scanners: 40
- Network throughput: 8 Mbps = 1 MB/s

- For an installed option update module, the same update module is already registered.

HINT
The update modules can be applied according to the time specified on the scanner side.

1 Press the [Admin Operations] tab in the Scanner Central Admin Console main window.
⇨ The [Scanner Admin Operations] window appears.

2 Select the [System Updates] link.
⇨ The [System Updates] window appears.



HINT
To cancel release of the update module, press the [Cancel] button to delete the module.

3 Select the group to which the new update module is registered in [Update Groups].
⇨ [Registered System Update] shows the details of the currently available update modules.

HINT
All add-in groups that are set to the scanner can be changed in one go. For details, refer to "Editing a Group" (page 106).

4 Select [Model].

5 To change the update time-period, press the [Edit] button for [Update Time-Period Restrictions] to configure the settings.

The default value is the value that was set for [Software Update Time-Period Restrictions] in the [Scanner Central Admin Server Settings (Common Settings)] window.

6 Press the [Browse] button and specify the update module to be registered.

7 Press the [Upload] button to upload the update module.

8 Select the [Issue an Update Call] check box to issue an update call.

When the check box is selected, even if a scanner is not started or logged in to, the update module is sent and applied to the scanner according to the Scanner Notification Schedule.

However, if the update is released while logged in to a scanner, the update will be applied after logging out. If any other available updates are pending, they are also applied at the same time.

9 In [Scanner Notification Schedule], set the schedule to notify update modules.

ATTENTION

When issuing a call, set a time that does not conflict with the update time-period restrictions.

10 Press the [Register] button.

⇨ This registers the uploaded update module.

HINT

When a new system update is available, it will be installed in a scanner if the new version is higher than the current version.
Targeted scanners are restarted after the new system update has been installed.
Pending updates are performed in the following order:

1 System updates
2 Add-in installs
3 System preferences

11 Press the [Back] button.

⇨ The Scanner Central Admin Console main window appears again.

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Installing an Add-in

In the Scanner Central Admin Console window, an Add-in for scanner can be installed by uploading an Add-in module and setting update calls. Up to six Add-in modules can be installed.

The new Add-in update module will be released, and applied to the scanners when one of the following occurs:

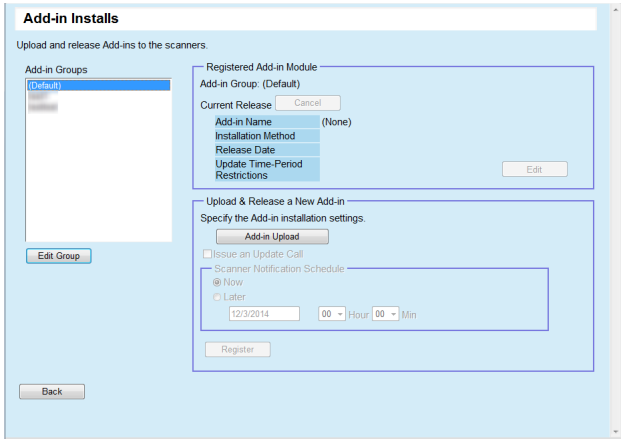
- Scanner is started, or enters into standby mode
- Scanner is logged out
- Scanner is notified of any update modules
- Scanner has an automatic update scheduled

When update calls are set up, updates can be applied to the scanners that are in power-off or standby mode using Wake-On-LAN.
If the Add-in module is already available, the module is replaced. However, if the date of the last modified Add-in module version is the same as, or earlier than the currently available one, the module cannot be registered.

HINT
Add-ins can be updated according to the time specified on the scanner side.
For more details, refer to the Operator's Guide of your scanner model.

1 Press the [Admin Operations] tab in the Scanner Central Admin Console main window.
➪ The [Scanner Admin Operations] window appears.

2 Select the [Add-in Installs] link.
➪ The [Add-in Installs] window appears.



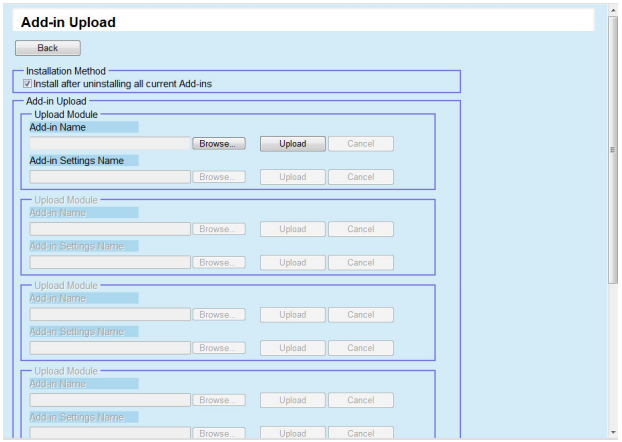
HINT
To cancel release of the Add-in module, press the [Cancel] button to delete the module.

3 In [Add-in Groups], select a group to which the new Add-in module is to be registered.
➪ [Registered Add-in Module] shows the details of the currently available Add-in modules.

HINT
All add-in groups that are set to the scanner can be changed in one go. For details, refer to "Editing a Group" (page 106).

4 To change the update time-period, press the [Edit] button for [Update Time-Period Restrictions] to configure the settings.
The default value is the value that was set for [Software Update Time-Period Restrictions] in the [Scanner Central Admin Server Settings (Common Settings)] window.

5 Press the [Add-in Upload] button.
⇨ The [Add-in Upload] window appears.



HINT
To cancel release of the Add-in module, press the [Cancel] button to delete the module.

6 To install the Add-in module after uninstalling all Add-in modules installed in a scanner, select the [Install after uninstalling all current Add-ins] check box.

7 Press the [Browse] button for [Add-in Name] to specify the Add-in module file.

8 Press the [Upload] button to upload the Add-in module.

9 To register Add-in settings for the Add-in module, press the [Browse] button for [Add-in Settings Name], and specify the Add-in settings file.

HINT
- If no Add-in module is uploaded, it is not possible to specify an Add-in settings file.
- If an Add-in settings file has already been registered for the Add-in module, press the [Cancel] button and delete the Add-in settings file, and then specify a new Add-in settings file.

10 Press the [Upload] button to upload the Add-in settings file.

11 Press the [Back] button.
⇨ The [Add-in Installs] window appears.

12 Select the [Issue an Update Call] check box to issue an update call.
When the check box is selected, even if a scanner is not started or logged in to, the Add-in module is sent and applied to the scanner according to the Scanner Notification Schedule.

However, if the update is released while logged in to a scanner, the update will be applied after logging out. If any other available updates are pending, they are also applied at the same time.

13 In [Scanner Notification Schedule], set the schedule to notify Add-in modules.

ATTENTION
When issuing a call, set a time that does not conflict with the update time-period restrictions.

14 Press the [Register] button.

⇨ The uploaded Add-in module is registered in the selected Add-in group.

HINT

The distributed Add-in module will be installed as long as both the name and version of the Add-in module do not match those of the Add-in module currently installed in the scanner.
Scanners are restarted twice when installing a new Add-in, once to uninstall the old Add-in, and once again after the new Add-in has been installed.
Pending updates are performed in the following order:

1 System updates
2 Add-in installs
3 System preferences

15 Press the [Back] button.

⇨ The Scanner Central Admin Console main window appears again.

Updating the System Preferences

In the Scanner Central Admin Console window, the system preferences can be updated by uploading new sets of system preferences and setting update calls.
For more details, refer to the Operator's Guide of your scanner model.

The new set of system preferences will be released, and applied to the scanners when one of the following occurs:

- Scanner is started, or enters into standby mode
- Scanner is logged out
- Scanner is notified of any update modules
- Scanner has an automatic update scheduled

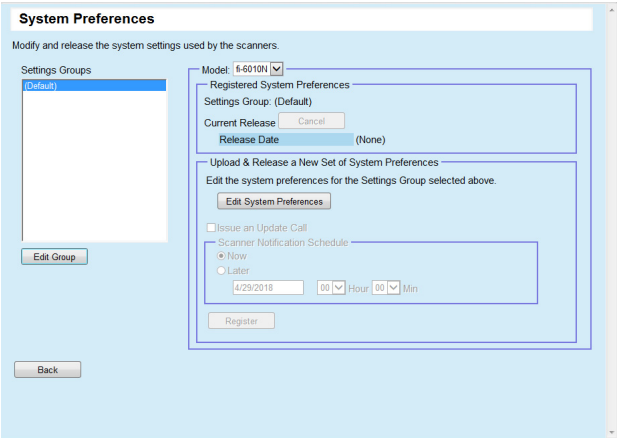
When update calls are set up, updates can be applied to the scanners that are in power-off or standby mode using Wake-On-LAN.
If the update is released while logged in to a scanner, the update will be applied after logging out.
If system preferences are already available, the system preferences are replaced.

HINT

The system preferences can be updated according to the time specified on the scanner side.

1 Press the [Admin Operations] tab in the Scanner Central Admin Console main window.
⇨ The [Scanner Admin Operations] window appears.

2 Select the [System Preferences] link.
⇨ The [System Preferences] window appears.



HINT
To cancel release of the system preferences, press the [Cancel] button to delete the system preferences.
If the system preferences are deleted, the settings contents can no longer be checked or changed. Also, editing and viewing the network printers/folders setting contents on the job mode edit window may not be possible.

3 In [Settings Groups], select a settings group to which the new set of system preferences is to be registered.
⇨ [Registered System Preferences] shows the release date of the currently available system preferences.

HINT
All setting groups that are set to the scanner can be changed in one go. For details, refer to "Editing a Group" (page 106).

4 Select [Model].

5 Press the [Edit System Preferences] button.

ATTENTION
When the [Edit System Preferences] button is pressed, the window may not appear properly.
In this case, perform the following:
1 From the Internet Explorer [Tools] menu, select [Internet Options].
2 In the [Internet Options] dialog box, select [Trusted sites] in the [Security] tab, and press the [Sites] button.
3 Add the IP address, host name, or FQDN of the Scanner Central Admin Server in the [Trusted sites] window.
4 Press the [Delete] button in the [General] tab to delete temporary files and history files.
5 Restart the Scanner Central Admin Console.

6 Configure the scanner settings.
For more details, refer to the Operator's Guide of your scanner model.

- [Close] button

  Registers the entered scanner settings and returns to the [System Preferences] window.

7 Select the [Issue an Update Call] check box to issue an update call.
When the check box is selected, even if a scanner is not started or logged in to, the update module is sent and applied to the scanner according to the Scanner Notification Schedule.

However, if the update is released while logged in to a scanner, the update will be applied after logging out. If any other available updates are pending, they are also applied at the same time.

8 In [Scanner Notification Schedule], set the schedule to notify system preferences.

9 Press the [Register] button.

⇨ The entered system preferences are registered in the selected settings group.

HINT

When a new set of system preferences is available, first any existing network printer and network folder settings are deleted, then the new system preferences are written over the old system preferences.

Once the new system preferences have been applied, any changes to the settings of individual scanners are retained until the next time a new set of system preferences becomes available from the Scanner Central Admin Server.

Pending updates are performed in the following order:

1 System updates

2 Add-in installs

3 System preferences

10 Press the [Back] button.

⇨ The Scanner Central Admin Console main window appears again.

Setting the Job Mode

In the Scanner Central Admin Console window, the job mode can be set by registering a new job mode and setting a release schedule.

After registering a new set of job mode settings, the job mode settings are replaced.

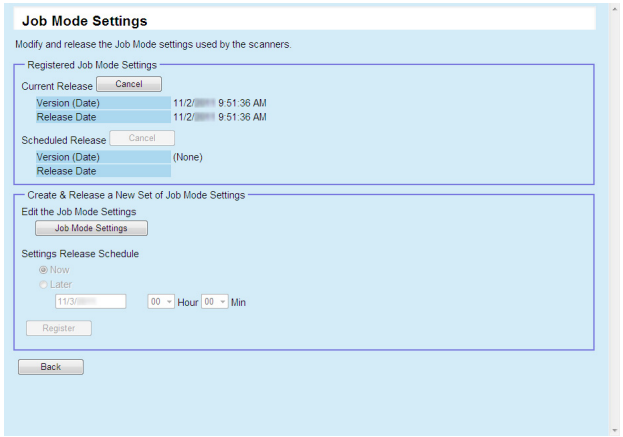
For more details, refer to the Operator's Guide of your scanner model.

1 Press the [Admin Operations] tab in the Scanner Central Admin Console main window.

⇨ The [Scanner Admin Operations] window appears.

2 Select the [Job Mode Settings] link.

⇨ The [Job Mode Settings] window appears.



HINT
To cancel release of the job mode settings or to cancel the next scheduled upload of the job mode settings, press the [Cancel] button to delete the job mode settings.
Even if available job mode settings are canceled, job mode settings already sent to a scanner will not become invalid. To disable the job mode settings in your scanner, set the [Job Mode] to [Off].

3 To create and release a new set of job mode settings, press the [Job Mode Settings] button.
⇨ The job mode edit window appears.

ATTENTION
When the [Job Mode Settings] button is pressed, the window may not appear properly.
In this case, perform the following:
1 From the Internet Explorer [Tools] menu, select [Internet Options].
2 In the [Internet Options] dialog box, select [Trusted sites] in the [Security] tab, and press the [Sites] button.
3 Add the IP address, host name, or FQDN of the Scanner Central Admin Server in the [Trusted sites] window.
4 Press the [Delete] button in the [General] tab to delete temporary files and history files.
5 Restart the Scanner Central Admin Console.

4 Configure job mode settings.
The contents of the last configured job mode settings are shown.

5 In [Settings Release Schedule], set the schedule to release job mode settings.

6 Press the [Register] button.
⇨ The entered job mode settings are registered.

7 Press the [Back] button.
⇨ The Scanner Central Admin Console main window appears again.

Checking the Update Status

Status details can be viewed for the following update types in the Scanner Central Admin Console window.

- System updates
- Add-in installs
- System preferences

1 Press the [Admin Operations] tab in the Scanner Central Admin Console main window.

⇨ The [Scanner Admin Operations] window appears.

2 Select the [Targeted] numerical link in [Scanner-Side Update Status].

⇨ The [Update Status List] window for the relevant update type appears.

3 Check the update status list.

For information about the settings, refer to the Scanner Central Admin Console Help.

3.12 Monitoring the Scanners

This section describes monitoring of scanners.
By monitoring the registration status, operating status, and event list of the scanners managed by the Scanner Central Admin Server, you can act swiftly to take appropriate measures for the scanners where replacement of consumable parts is required or where an error occurs.

The operating status of the scanners is updated when one of following occurs:

- For image scanners:
  - Computer connected to the scanner is logged in/off or shutdown
  - Scanner cable is connected/disconnected
  - Scanner power is operated
  - Update process is completed
  - At 12:00 and 24:00
  - Settings are changed or the counter is cleared on Software Operation Panel
  - Settings are changed on the Scanner Central Admin Agent setting window
- For image scanners (operated with NX Manager)/network scanners:
  - Scanner is logged-in or logged-out
  - Scanner is started, or resumed from standby mode
  - Scanner is powered-off, or enters into standby mode

Monitoring the Scanner Network

In the Scanner Central Admin Console window, the registration status of scanners, the status of various scanner processes, and the event log can be viewed.

1. Press the [Admin Operations] tab in the Scanner Central Admin Console main window.
   ⇨ The [Scanner Admin Operations] window appears.
2. Monitor the state of the scanner network.
   For information about the settings, refer to the Scanner Central Admin Console Help.

Monitoring the Scanner Operating Status

Operating status of the scanners can be monitored in the Scanner Central Admin Console window.

1. Press the [Operation Monitor] tab in the Scanner Central Admin Console main window.
   ⇨ The [Scanner Operation Monitor] window appears.
2. Monitor the operating status of the scanners.
   For information about the settings, refer to the Scanner Central Admin Console Help.

Viewing the Statistical Information

You can view the statistical information of the scanners on the Scanner Central Admin Console window.
The information that is collected as statistical information is as follows:

- ADF total throughput
- Flatbed total throughput

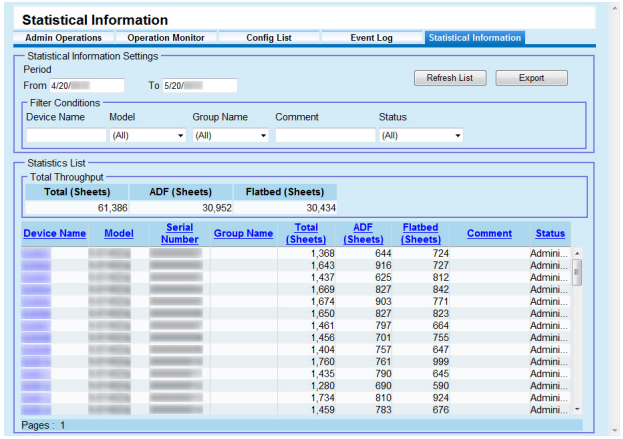
The statistical information can be viewed with the specified time period and filter conditions.
The statistical information is updated at the same time as the operating status of the scanners. For details about the timing of the update, refer to "3.12 Monitoring the Scanners" (page 81).

HINT

- The statistical information for operations performed from yesterday to 365 days ago can be viewed. The statistical information for the day when you performed operations cannot be viewed.
- Even if you delete scanners in the [Scanner Config List] window, the statistical information is not deleted. The statistical information of the scanners that performed the scanning operation within the time period is displayed.

■Viewing the Statistical Information

1 Press the [Statistical Information] tab on the Scanner Central Admin Console main window.
⇨ The [Statistical Information] window appears.



2 In [Period], specify the date for [From] and [To].
For information about the settings, refer to the Scanner Central Admin Console Help.

3 Specify [Filter Conditions].
For information about the settings, refer to the Scanner Central Admin Console Help.

4 Click the [Refresh List] button.
⇨ The statistical information is displayed with the specified time period and filter conditions.

5 View the statistical information.
For information about the settings, refer to the Scanner Central Admin Console Help.

■Exporting Statistical Information

1 Press the [Statistical Information] tab on the Scanner Central Admin Console main window.
⇨ The [Statistical Information] window appears.

2 In [Period], specify the date for [From] and [To].
For information about the settings, refer to the Scanner Central Admin Console Help.

3 Specify [Filter Conditions].
For information about the settings, refer to the Scanner Central Admin Console Help.

4 Click the [Refresh List] button.
⇨ The statistical information is displayed with the specified time period and filter conditions.

5 Press the [Export] button.
⇨ A window to confirm whether or not to export the statistical information appears.

6 Press the [OK] button.
⇨ The [File Download] dialog box appears.

7 Press the [Save] button.
⇨ The [Save As] dialog box appears.

8 Specify the export destination.

9 Press the [Save] button.
⇨ The statistical information file is exported to the specified destination.
For details about the format of the statistical information file to be exported, refer to "Statistical Information File Format" (page 168).

Viewing Event Log

By configuring the Scanner Central Admin Server settings of scanners, you can monitor events that occur on the scanners. In the Scanner Central Admin Console window, you can view an event log that lists all events that occur on scanners and the results of various Scanner Central Admin Server processes.

■Viewing Event Log

1 Press the [Event Log] tab in the Scanner Central Admin Console main window.
⇨ The [Event Log] window appears.

2 Monitor the event log.
For information about the settings, refer to the Scanner Central Admin Console Help.

■Exporting Event Log

1 Press the [Event Log] tab in the Scanner Central Admin Console main window.
⇨ The [Event Log] window appears.

2 Press the [Export] button.
⇨ A confirmation window for whether or not to export the event log appears.

3 Press the [OK] button.
⇨ The [File Download] dialog box appears.

4 Press the [Save] button.
⇨ The [Save As] dialog box appears.

5 Specify the export destination.

6 Press the [Save] button.
⇨ The event log file is exported to the specified destination.
For details about the format of the event log file to be exported, refer to "Event Log File Format" (page 168).

■Clearing All Events

1 Press the [Event Log] button in the Scanner Central Admin Console main window.
⇨ The [Event Log] window appears.

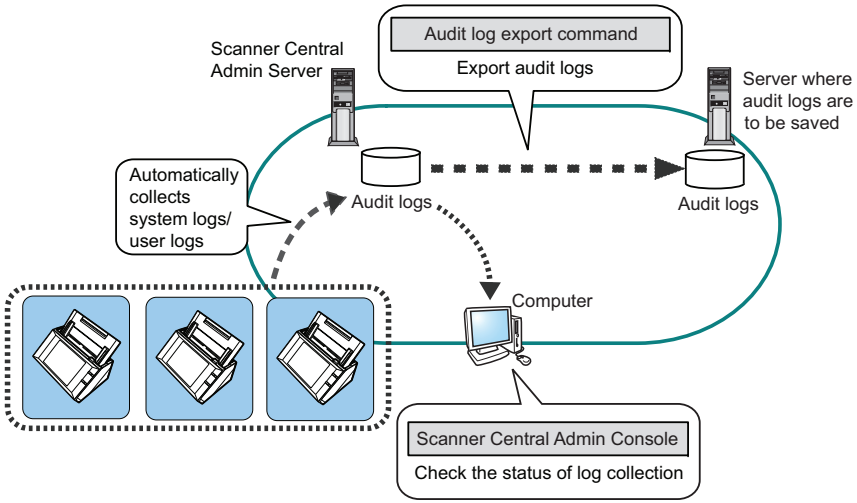
2 Press the [Clear Log] button.
⇨ A confirmation window for whether or not to clear the events appears.

3 Press the [OK] button.
⇨ All the events are cleared.

Collecting and Exporting Audit Logs

Network Scanner

System logs and user logs of network scanners can be collected and saved in the Scanner Central Admin Server. System logs collected in the Scanner Central Admin Server are referred to as "audit logs (system)", and user logs as "audit logs (user)". Both types of logs are referred to collectively as "audit logs". By automatically collecting system logs and user logs in the Scanner Central Admin Server, you can record users' past operations.
To view audit logs, export those collected in the Scanner Central Admin Server to a folder by executing a command. The status of audit logs collection can be checked in the [Scanner Details] window.



Collecting Audit Logs

To automatically collect audit logs in the Scanner Central Admin Server, enable the audit log collection in the Scanner Central Admin Console [Scanner Central Admin Server Settings (Network Scanner Settings)] window.

ATTENTION
The audit logs are managed according to the date on which they are collected in the Scanner Central Admin Server. Do not change the Scanner Central Admin Server date and time setting to a date that has already passed.

HINT
If the audit log is collected, disk space for saving the audit log is required. Refer to the following for estimates of the required disk space.
Under the following conditions, one log per day requires 25 KB.
Power on/off: once, Login/Logout: 20 times,
Number of scan operations: 100 times

Exporting Audit Logs

To export audit logs collected in the Scanner Central Admin Server, execute "AmExportLog.exe" in the command prompt on the computer installed with the Scanner Central Admin Server.

- Command storage location

  Under the [\AmManager\Bin] folder in the installation folder of the Scanner Central Admin Server

- Command executable format

  AmExportLog -d *OutputFolder* [-v]

  The italic text represents variable character strings.

  To show the status of the process, specify -v.

HINT

An [AuditLogs] folder is created in the specified output folder. In this [AuditLogs] folder, a folder is created for each date to save audit logs.
The date of a folder corresponds to that of when audit logs are collected in the Scanner Central Admin Server. Therefore, the date may differ from that on the scanner when the logs are created.

- File name format of an output audit log
  Audit log (system)

  *ScannerName_MACAddress*_syslog.csv

- File name format of an output audit log
  Audit log (user)

  *ScannerName_MACAddress*_usrlog.csv

- Return value
  - 0

    Succeeded
  - Other than 0

    Failed

ATTENTION

- Do not execute this command twice at the same time.
- If a file name already exists, the existing file will be overwritten.
- When exported, audit logs are deleted from the Scanner Central Admin Server.
- If an error occurs while exporting, the audit logs that have been exported are deleted from the Scanner Central Admin Server.

File Format of Audit Logs

Audit log files are formatted as follows:

- Audit logs use the UTF-8 character set.
- Audit logs are in a CSV format.
- Audit logs contain the following output:
  - Audit log (system)

    This log contains the following output items:

    "Sequence_number","Date","Time","Type","Code","Message"

    These items are defined as follows:

Item	Description
Sequence number	A sequence number between "1" and "4294967295". This number increments from "1" as logs are added, and resets to "0" (indicating an overflow) after "4294967295".
Date	Corresponds to the system log [Date].
Time	Corresponds to the system log [Time].
Type	Corresponds to the system log [Type].
Code	Corresponds to the system log [Code].
Message	Corresponds to the system log [Messages].

For details about accessing the system log, refer to the Operator's Guide of your scanner model.

- Audit log (user)

  This log contains the following output items:

"Sequence_number","Date","Time","User","Code", "Operation","Result","Pages","Description"

  These items are defined as follows:

Item	Description
Sequence number	A sequence number between "1" and "4294967295". This number increments from "1" as logs are added, and resets to "0" (indicating an overflow) after "4294967295".
Date	Corresponds to the user log [Date].
Time	Corresponds to the user log [Time].
User	Corresponds to the user log [User].
Code	Corresponds to the user log [Code].
Operation	Corresponds to the user log [Operation].
Result	Corresponds to the user log [Result].
Pages	Corresponds to the user log [Pages].
Description	Corresponds to the user log [Description].

  For details about accessing the user log, refer to the Operator's Guide of your scanner model.

3.13 Managing the Scanners

This section describes the management of scanners.
Scanners can be managed through operations such as adding, changing, and deleting the scanner configuration and checking scanner configuration about the scanner models, system/firmware/driver versions, and other details.
A set of scanner configuration can be related to a group. For example, sorting the scanners by department allows the individual departments to update their own scanners.
Scanner configuration is information used to identify scanners on the Scanner Central Admin Server, when registering configuration information from a scanner to the Scanner Central Admin Server.
The registered scanners can be managed by the Scanner Central Admin Server functions.
Initially, scanner configuration for each scanner in the scanner group is automatically added.
To prevent scanner configuration from automatically being added, clear the [Automatically add new scanners to the Central Admin configuration when they are discovered] check box in the [Scanner Central Admin Server Settings] window in advance.

Scanner Configuration

The following table shows which items are added/imported to the Scanner Central Admin Server from a config file or from a scanner.
Scanner configuration is updated at the same time as the operating status of the scanners. For details about the timing of the update, refer to "3.12 Monitoring the Scanners" (page 81).

Item	Description	Image scanner	Image scanner (operated with NX Manager)	Network scanner	Configuration from file	Configuration from scanner
Admin ID (*1)	Admin ID used to identify the scanner or the computer connected to the scanner. For a network scanner, this is a MAC address.	Yes	Yes	Yes	Yes	Yes
Name	Name of the scanner or of the computer connected to the scanner	Yes	Yes	Yes	Yes	Yes
Scanner Type	Image scanner, image scanner (operated with NX Manager), or network scanner	Yes	Yes	Yes	Yes	Yes
Model	Scanner model. For an emulated scanner, this is the name of an emulated model.	Yes	Yes	Yes	Yes	Yes (*2)
Flatbed Scanner Model (*1)	Flatbed scanner model	-	-	Yes	Yes (*3)	-
Serial Number	Scanner serial number	Yes	Yes	Yes (*4)	-	Yes (*2)
OS	Operating system name and service pack version of the computer connected to the scanner	Yes	-	-	-	Yes
IP Address	IP address of the scanner or of the computer connected to the scanner	Yes	Yes	Yes	Yes	Yes
Subnet Mask (*1)	Subnet mask of the scanner or of the computer connected to the scanner	Yes	Yes	Yes	Yes	Yes
MAC Address	MAC address of the scanner or of the computer connected to the scanner	Yes	Yes	Yes	Yes	Yes

Item	Description	Image scanner	Image scanner (operated with NX Manager)	Network scanner	Configuration from file	Configuration from scanner
Description	Description	Yes	Yes	Yes	Yes	-
Optional Items	Up to ten items that were added as [Optional Items] in [Edit Optional Items] of the [Scanner Central Admin Server Settings (Common Settings)] window.	Yes	Yes	Yes	Yes	-
Info Last Modified	Last date and time scanner configuration was modified	Yes	Yes	Yes	- (*5)	- (*5)
Registered (*1)	Whether or not a target scanner is added to the Scanner Central Admin Server from the scanner	Yes	Yes	Yes	- (*5)	- (*5)
Update Status (*1)	Indicates the most recent update statuses (System Updates, Add-in Installs, System Preferences)	Yes	Yes	Yes	- (*5)	- (*5)
Flatbed Scanner Serial Number	Serial number of the Flatbed scanner (for a network scanner, this is shown when the Flatbed option is enabled)	-	-	Yes (*4)	-	Yes (*2)
Port Number	Scanner port number	-	Yes	Yes	Yes	Yes
Use HTTPS?	Whether or not HTTPS is used to communicate with the scanner	-	Yes	Yes	Yes	Yes
Operating Status	Scanner operating status	Yes	Yes	Yes	-	Yes
Error Status	Whether or not an error occurred in the scanner	Yes	Yes	Yes	-	-
Last Inventory Taken	Date and time inventory was last taken	Yes	Yes	Yes	- (*5)	- (*5)
Date of Registration	Date on which the scanner was registered	Yes	Yes	Yes	-	Yes (*2)
Connection Interface Type	Type of interface used to connect the computer to the scanner	Yes	Yes	-	-	Yes (*2)
True Model Type	True model type of the scanner (this is shown when the scanner is emulated)	Yes	Yes	-	-	Yes (*2)

Item	Description	Image scanner	Image scanner (operated with NX Manager)	Network scanner	Configuration from file	Configuration from scanner
ADF Total Throughput (Sheets)	Total number of sheets scanned by the scanner that the ADF has been used for	Yes	Yes	Yes	-	Yes (*2)
Flatbed Total Throughput (Sheets)	Total number of scanned sheets of the Flatbed (for a network scanner, this is shown when the Flatbed option is enabled)	Yes	-	Yes	-	Yes (*2)
PAD ASSY (Sheets)	Number of sheets pad assy has been used for	Yes	-	Yes (*7)	-	Yes (*2)
PAD ASSY Status	Numerical value that indicates whether the number of sheets the pad assy has been used for exceeds the threshold	Yes	-	Yes (*7)	-	Yes (*2)
PAD ASSY Threshold	Numerical value that indicates the threshold of the pad assy status	Yes	-	Yes (*4)	-	Yes
PAD ASSY Counter Last Cleared	The date and time the pad assy counter was last cleared	Yes	-	-	-	Yes
PICK ROLLER (Sheets)	Number of sheets pick roller has been used for	Yes	Yes	Yes	-	Yes (*2)
PICK ROLLER Status	Numerical value that indicates whether the number of sheets the pick roller has been used for exceeds the threshold	Yes	Yes	Yes	-	Yes (*2)
PICK ROLLER Threshold	Numerical value that indicates the threshold of the pick roller status	Yes	Yes	Yes (*4)	-	Yes
PICK ROLLER Counter Last Cleared	The date and time the pick roller counter was last cleared	Yes	Yes	-	-	Yes
BRAKE ROLLER (Sheets)	Number of sheets brake roller has been used for	Yes	Yes	Yes (*6)	-	Yes (*2)

Item	Description	Image scanner	Image scanner (operated with NX Manager)	Network scanner	Configuration from file	Configuration from scanner
BRAKE ROLLER Status	Numerical value that indicates whether the number of sheets the brake roller has been used for exceeds the threshold	Yes	Yes	Yes (*6)	-	Yes (*2)
BRAKE ROLLER Threshold	Numerical value that indicates the threshold of the brake roller status	Yes	Yes	Yes (*6)	-	Yes
BRAKE ROLLER Counter Last Cleared	The date and time the brake roller counter was last cleared	Yes	Yes	-	-	Yes
SEPARATOR ROLLER (Sheets)	Number of sheets separator roller has been used for	Yes	-	-	-	Yes (*2)
SEPARATOR ROLLER Status	Numerical value that indicates whether the number of sheets the separator roller has been used for exceeds the threshold	Yes	-	-	-	Yes (*2)
SEPARATOR ROLLER Threshold	Numerical value that indicates the threshold of the separator roller status	Yes	-	-	-	Yes
SEPARATOR ROLLER Counter Last Cleared	The date and time the separator roller counter was last cleared	Yes	-	-	-	Yes
PRINT CARTRIDGE	Imprinter print cartridge ink level	Yes	-	-	-	Yes (*2)
PRINT CARTRIDGE Status	Numerical value that indicates whether the print cartridge ink level exceeds the threshold	Yes	-	-	-	Yes (*2)
PRINT CARTRIDGE Counter Last Cleared	The date and time the print cartridge counter was last cleared	Yes	-	-	-	Yes

Item	Description	Image scanner	Image scanner (operated with NX Manager)	Network scanner	Configuration from file	Configuration from scanner
Total Throughput after Cleaning (Sheets)	Number of sheets scanned after cleaning	Yes	Yes	-	-	Yes (*2)
Cleaning required (Total Throughput after Cleaning)	Numerical value that indicates whether the number of sheets scanned after cleaning exceeds the threshold	Yes	Yes	-	-	Yes (*2)
Cleaning threshold (Total Throughput after Cleaning)	Numerical value that indicates the threshold of the number of sheets scanned after cleaning	Yes	Yes	-	-	Yes (*2)
Feed Roller	Numerical value that indicates whether the feed roller cleaning is required	Yes	-	-	-	Yes (*2)
Assist Roller	Numerical value that indicates whether the assist roller cleaning is required	Yes	-	-	-	Yes (*2)
Glass	Numerical value that indicates whether the glass cleaning is required	Yes	Yes	-	-	Yes (*2)
Paper jam, Multifeed: Occurrences within one day	Number of paper jam or multifeed occurrences in one day	Yes	Yes	Yes (*6)	-	Yes (*2)
Paper jam, Multifeed: Cleaning required (Occurrences within one day)	Numerical value that indicates whether the number of paper jam or multifeed occurrences in one day exceeds the threshold	Yes	Yes	Yes (*6)	-	-
Paper jam, Multifeed: Occurrences within throughput	Number of paper jam or multifeed occurrences in the specified range of the number of scanned sheets	Yes	Yes	Yes (*6)	-	Yes (*2)

Item	Description	Image scanner	Image scanner (operated with NX Manager)	Network scanner	Configuration from file	Configuration from scanner
Paper jam, Multifeed: Cleaning required (Occurrences within throughput)	Numerical value that indicates whether the number of paper jam or multifeed occurrences in the specified range of the number of scanned sheets exceeds the threshold	Yes	Yes	Yes (*6)	-	-
Flatbed Date of Registration	Date on which the Flatbed was registered (for a network scanner, this is shown when the Flatbed option is enabled)	-	-	Yes	-	Yes
Cumulative On Time (Hours)	Total scanner "On" time, in hours	-	-	Yes	-	Yes
Last Audit Log Collected	Last date and time audit log was collected	-	-	Yes	- (*5)	- (*5)
Update Group	Group name used to identify update modules to be installed. Unnamed scanners belong to the "Default" group.	Yes	Yes	Yes	Yes	-
Settings Group	Group name used to identify applied system preferences. Unnamed scanners belong to the "Default" group.	-	-	Yes	Yes	-
TWAIN Driver Version	TWAIN driver version of the computer connected to the scanner (If the installed version does not support Scanner Central Admin, "Version (NotSupport)" is shown)	Yes	-	-	-	Yes
Current TWAIN Driver Status	Current TWAIN driver update status of the computer connected to the scanner	Yes	-	-	-	-
Last TWAIN Driver Update	Date/time of the last known successful TWAIN driver update of the computer connected to the scanner	Yes	-	-	-	-

Item	Description	Image scanner	Image scanner (operated with NX Manager)	Network scanner	Configuration from file	Configuration from scanner
ISIS Driver Version	ISIS driver version of the computer connected to the scanner (If the installed version does not support Scanner Central Admin, "Version (NotSupport)" is shown)	Yes	-	-	-	Yes
Current ISIS Driver Status	Current ISIS driver update status of the computer connected to the scanner	Yes	-	-	-	-
Last ISIS Driver Update	Date/time of the last known successful ISIS driver update of the computer connected to the scanner	Yes	-	-	-	-
Software VRS Version	Software VRS version of the computer connected to the scanner (If the installed version does not support Scanner Central Admin, "Version (NotSupport)" is shown)	Yes	-	-	-	Yes
Current Software VRS Status	Current Software VRS update status of the computer connected to the scanner	Yes	-	-	-	-
Last Software VRS Update	Date/time of the last known successful Software VRS update of the computer connected to the scanner	Yes	-	-	-	-
Hardware VRS Version	Hardware VRS version of the computer connected to the scanner (If the installed version does not support Scanner Central Admin, "Version (NotSupport)" is shown)	Yes	-	-	-	Yes
Current Hardware VRS Status	Current Hardware VRS update status of the computer connected to the scanner	Yes	-	-	-	-
Last Hardware VRS Update	Date/time of the last known successful Hardware VRS update of the computer connected to the scanner	Yes	-	-	-	-
Scanner Control Runtime Version	Scanner Control Runtime version of the computer connected to the scanner	Yes	-	-	-	Yes

Item	Description	Image scanner	Image scanner (operated with NX Manager)	Network scanner	Configuration from file	Configuration from scanner
Current Scanner Control Runtime Status	Current Scanner Control Runtime update status of the computer connected to the scanner	Yes	-	-	-	-
Last Scanner Control Runtime Update	Date/time of the last known successful Scanner Control Runtime update of the computer connected to the scanner	Yes	-	-	-	-
ScandAll PRO Version	ScandAll PRO version of the computer connected to the scanner	Yes	-	-	-	Yes
Current ScandAll PRO Status	Current ScandAll PRO update status of the computer connected to the scanner	Yes	-	-	-	-
Last ScandAll PRO Update	Date/time of the last known successful ScandAll PRO update of the computer connected to the scanner	Yes	-	-	-	-
Scan to Microsoft SharePoint Version	Scan to Microsoft SharePoint version of the computer connected to the scanner	Yes	-	-	-	Yes
Current Scan to Microsoft SharePoint Status	Current Scan to Microsoft SharePoint update status of the computer connected to the scanner	Yes	-	-	-	-
Last Scan to Microsoft SharePoint Update	Date/time of the last known successful Scan to Microsoft SharePoint update of the computer connected to the scanner	Yes	-	-	-	-
Error Recovery Guide Version	Error Recovery Guide version of the computer connected to the scanner	Yes	-	-	-	Yes
Current Error Recovery Guide Status	Current Error Recovery Guide update status of the computer connected to the scanner	Yes	-	-	-	-

Item	Description	Image scanner	Image scanner (operated with NX Manager)	Network scanner	Configuration from file	Configuration from scanner
Last Error Recovery Guide Update	Date/time of the last known successful Error Recovery Guide update of the computer connected to the scanner	Yes	-	-	-	-
Manual Version	Manual version of the computer connected to the scanner	Yes	-	-	-	Yes
Current Manual Status	Current manual update status of the computer connected to the scanner	Yes	-	-	-	-
Last Manual Update	Date/time of the last known successful manual update of the computer connected to the scanner	Yes	-	-	-	-
Scanner Central Admin Agent Version	Scanner Central Admin Agent version of the computer connected to the scanner	Yes	-	-	-	Yes
Current Scanner Central Admin Agent Status	Current Scanner Central Admin Agent update status of the computer connected to the scanner	Yes	-	-	-	-
Last Scanner Central Admin Agent Update	Date/time of the last known successful Scanner Central Admin Agent update of the computer connected to the scanner	Yes	-	-	-	-
Firmware Version	Scanner firmware version	Yes	Yes	Yes	-	Yes (*2)
Current Firmware Status	Current firmware update status	Yes	Yes	-	-	-
Last Firmware Update	Date/time of the last known successful firmware update	Yes	Yes	-	-	-
Firmware (Imprinter) Version	Imprinter firmware version	Yes	-	-	-	Yes (*2)

Item	Description	Image scanner	Image scanner (operated with NX Manager)	Network scanner	Configuration from file	Configuration from scanner
Current Firmware (Imprinter) Status	Current imprinter firmware update status	Yes	-	-	-	-
Last Firmware (Imprinter) Update	Date/time of the last known successful imprinter firmware update	Yes	-	-	-	-
User Application Version	User application version of the computer connected to the scanner	Yes	-	-	-	Yes
Current User Application Status	Current user application update status of the computer connected to the scanner	Yes	-	-	-	-
Last User Application Update	Date/time of the last known successful user application update of the computer connected to the scanner	Yes	-	-	-	-
Software Operation Panel Settings Version	Software Operation Panel settings version of the computer connected to the scanner	Yes	-	-	-	Yes
Current Software Operation Panel Settings Status	Current Software Operation Panel settings update status of the computer connected to the scanner	Yes	-	-	-	-
Last Software Operation Panel Settings Update	Date/time of the last known successful Software Operation Panel settings update of the computer connected to the scanner	Yes	-	-	-	-
ScandAll PRO Settings Version	ScandAll PRO settings version of the computer connected to the scanner	Yes	-	-	-	Yes
Current ScandAll PRO Settings Status	Current ScandAll PRO settings update status of the computer connected to the scanner	Yes	-	-	-	-
Last ScandAll PRO Settings Update	Date/time of the last known successful ScandAll PRO settings update of the computer connected to the scanner	Yes	-	-	-	-

Item	Description	Image scanner	Image scanner (operated with NX Manager)	Network scanner	Configuration from file	Configuration from scanner
Scanner Central Admin Agent Settings Version	Scanner Central Admin Agent settings version of the computer connected to the scanner	Yes	-	-	-	Yes
Current Scanner Central Admin Agent Settings Status	Current Scanner Central Admin Agent settings update status of the computer connected to the scanner	Yes	-	-	-	-
Last Scanner Central Admin Agent Settings Update	Date/time of the last known successful Scanner Central Admin Agent settings update of the computer connected to the scanner	Yes	-	-	-	-
PaperStream IP (TWAIN) Version	PaperStream IP (TWAIN) version of the computer connected to the scanner	Yes	-	-	-	Yes
Current PaperStream IP (TWAIN) Status	Current PaperStream IP (TWAIN) update status of the computer connected to the scanner	Yes	-	-	-	-
Last PaperStream IP (TWAIN) Update	Date/time of the last known successful PaperStream IP (TWAIN) update of the computer connected to the scanner	Yes	-	-	-	-
PaperStream IP (ISIS) Version	PaperStream IP (ISIS) version of the computer connected to the scanner	Yes	-	-	-	Yes
Current PaperStream IP (ISIS) Status	Current PaperStream IP (ISIS) update status of the computer connected to the scanner	Yes	-	-	-	-
Last PaperStream IP (ISIS) Update	Date/time of the last known successful PaperStream IP (ISIS) update of the computer connected to the scanner	Yes	-	-	-	-

Item	Description	Image scanner	Image scanner (operated with NX Manager)	Network scanner	Configuration from file	Configuration from scanner
ScanSnap Manager for fi Series Version	ScanSnap Manager for fi Series version of the computer connected to the scanner	Yes	-	-	-	Yes
Current ScanSnap Manager for fi Series Status	Current ScanSnap Manager for fi Series update status of the computer connected to the scanner	Yes	-	-	-	-
Last ScanSnap Manager for fi Series Update	Date/time of the last known successful ScanSnap Manager for fi Series update of the computer connected to the scanner	Yes	-	-	-	-
PaperStream Capture Version	PaperStream Capture version of the computer connected to the scanner	Yes	-	-	-	Yes
Current PaperStream Capture Status	Current PaperStream Capture update status of the computer connected to the scanner	Yes	-	-	-	-
Last PaperStream Capture Update	Date/time of the last known successful PaperStream Capture update of the computer connected to the scanner	Yes	-	-	-	-
2D Barcode for PaperStream Version	2D Barcode for PaperStream version of the computer connected to the scanner	Yes	-	-	-	Yes
Current 2D Barcode for PaperStream Status	Current 2D Barcode for PaperStream update status of the computer connected to the scanner	Yes	-	-	-	-
Last 2D Barcode for PaperStream Update	Date/time of the last known successful 2D Barcode for PaperStream update of the computer connected to the scanner	Yes	-	-	-	-
PaperStream IP (TWAIN) Settings Version	PaperStream IP (TWAIN) settings version of the computer connected to the scanner	Yes	-	-	-	Yes

Item	Description	Image scanner	Image scanner (operated with NX Manager)	Network scanner	Configuration from file	Configuration from scanner
Current PaperStream IP (TWAIN) Settings Status	Current PaperStream IP (TWAIN) settings update status of the computer connected to the scanner	Yes	-	-	-	-
Last PaperStream IP (TWAIN) Settings Update	Date/time of the last known successful PaperStream IP (TWAIN) settings update of the computer connected to the scanner	Yes	-	-	-	-
PaperStream IP (ISIS) Settings Version	PaperStream IP (ISIS) settings version of the computer connected to the scanner	Yes	-	-	-	Yes
Current PaperStream IP (ISIS) Settings Status	Current PaperStream IP (ISIS) settings update status of the computer connected to the scanner	Yes	-	-	-	-
Last PaperStream IP (ISIS) Settings Update	Date/time of the last known successful PaperStream IP (ISIS) settings update of the computer connected to the scanner	Yes	-	-	-	-
PaperStream Capture Settings Version	PaperStream Capture settings version of the computer connected to the scanner	Yes	-	-	-	Yes
Current PaperStream Capture Settings Status	Current PaperStream Capture settings update status of the computer connected to the scanner	Yes	-	-	-	-
Last PaperStream Capture Settings Update	Date/time of the last known successful PaperStream Capture settings update of the computer connected to the scanner	Yes	-	-	-	-
System Version	Scanner system version	-	-	Yes	-	Yes

Item	Description	Image scanner	Image scanner (operated with NX Manager)	Network scanner	Configuration from file	Configuration from scanner
Security Update Version	Security update version	-	-	Yes	-	Yes
Installed Options	A list of installed options	-	-	Yes	-	Yes
Current System Update Status	Current system update status	-	-	Yes	- (*5)	- (*5)
Flatbed Version	Firmware version of the Flatbed (for a network scanner, this is shown when the Flatbed option is enabled)	-	-	Yes	-	Yes
Last System Update	Date/time of the last known successful system update	-	-	Yes	- (*5)	- (*5)
Add-in Group	Group name used to identify applied Add-in install modules. Unnamed scanners belong to the "Default" group	-	-	Yes	Yes	-
Add-in Version	Scanner Add-in install module version	-	-	Yes	-	Yes
Current Add-in Install Status	Current scanner Add-in install status	-	-	Yes	- (*5)	- (*5)
Last Add-in Install	Date/time of the last known successful Add-in install	-	-	Yes	- (*5)	- (*5)
Last Add-in Settings Update	Date/time of the last known successful Add-in settings update	-	-	Yes	- (*5)	- (*5)
System Preferences (*1)	Identifies which set of Scanner Central Admin Server supplied system preferences has been applied	-	-	Yes	-	-
Current System Preferences Status	Current system preferences status	-	-	Yes	- (*5)	- (*5)
Last System Preferences Update	Date/time of the last known successful released system preferences update	-	-	Yes	- (*5)	- (*5)

Item	Description	Image scanner	Image scanner (operated with NX Manager)	Network scanner	Configuration from file	Configuration from scanner
Scanner Settings Version	Scanner settings version	-	Yes	-	-	Yes
Current Scanner Settings Status	Current scanner settings status	-	Yes	-	-	-
Last Scanner Settings Update	Date/time of the last known successful released scanner settings update	-	Yes	-	-	-

Yes : Necessary

- : Not necessary

*1 : The information is not displayed in the [Scanner Details] window.

*2 : The information is not registered if the scanner is not connected.

*3 : A blank space is output.

*4 : The information may not be available with some models.

*5 : Automatically set from the Scanner Central Admin Server.

*6 : This information is available for N7100.

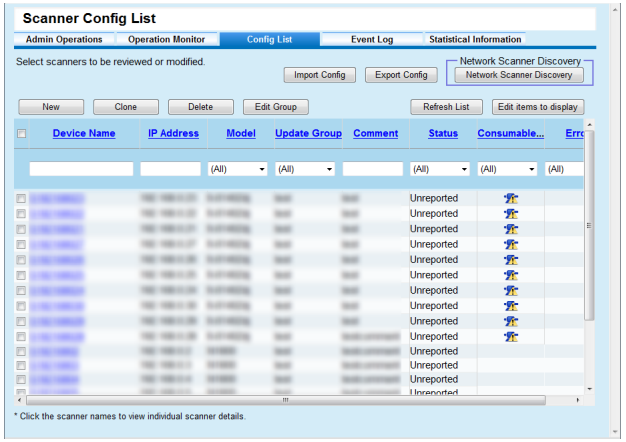
*7 : This information is available for N1800 and fi-6010N.

Adding Scanner Configuration

Scanner configuration can be added in the Scanner Central Admin Console window.

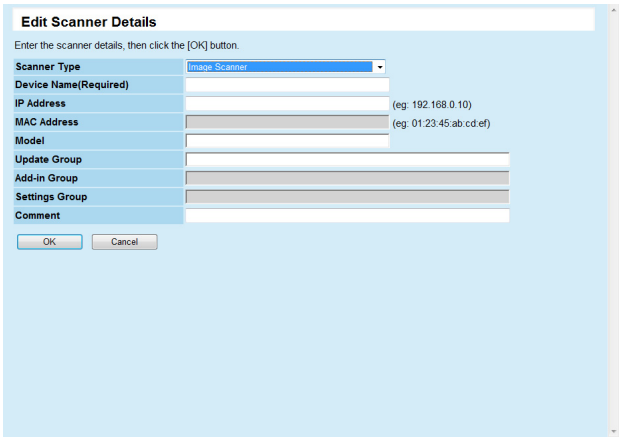
1 Press the [Config List] tab in the Scanner Central Admin Console main window.

⇨ The [Scanner Config List] window appears.



2 Press the [New] button.

⇨ The [Edit Scanner Details] window appears.



3 Configure the desired settings.

For information about the settings, refer to the Scanner Central Admin Console Help.

4 Press the [OK] button.

⇨ The scanner configuration is registered.
[Unregistered] is displayed in [Status] on the [Scanner Config List] window.

5 To change the status of the scanner registration to registered status, configure the settings from Scanner Central Admin Agent, the image scanner (operated with NX Manager), or the network scanner.

- For image scanners
  Configure the settings from Scanner Central Admin Agent. For details about the settings, refer to "3.6 Pre-settings for the Scanner Central Admin Agent" (page 54).
- For image scanners (operated with NX Manager)/network scanners
  Configure the settings from the image scanner (operated with NX Manager) or the network scanner. For details about registering, refer to "3.7 Pre-settings for Image Scanners (Operated with NX Manager)/Network Scanners" (page 56).

HINT

To copy the configuration of another scanner, select the check box for the scanner to be copied in the [Scanner Config List] window. Then, press the [Clone] button and edit the configuration as needed.

Editing Scanner Configuration

Scanner configuration can be edited in the Scanner Central Admin Console window.
You can set a group and description to the scanner configuration automatically registered from the scanner.

1. Press the [Config List] tab in the Scanner Central Admin Console main window.
   ⇨ The [Scanner Config List] window appears.
2. Click the link of the scanner name to be edited.
   ⇨ The [Scanner Details] window appears.
3. Press the [Edit] button.
   ⇨ The [Edit Scanner Details] window appears.
4. Edit the desired settings.
   For information about the settings, refer to the Scanner Central Admin Console Help.
5. Press the [OK] button.
   ⇨ The changed scanner configuration is saved.

Deleting Scanner Configuration

Scanner configuration can be deleted in the Scanner Central Admin Console window.

1. Press the [Config List] tab in the Scanner Central Admin Console main window.
   ⇨ The [Scanner Config List] window appears.
2. Select the check box for the scanner to be deleted.
3. Press the [Delete] button.
   ⇨ A confirmation window for whether or not to delete the specified scanner configuration appears.
4. Press the [OK] button.
   ⇨ The scanner configuration is deleted.

ATTENTION

- Deleting the scanner configuration does not complete the unregistering of the Scanner Central Admin Server settings on the scanner side. To unregister settings in order to not centrally manage the scanner, disable the Scanner Central Admin Server settings on the scanner side.
- For image scanners, to disable the registration status with Scanner Central Admin Server of multiple scanners at one time, apply a new set of Scanner Central Admin Agent settings to target scanners.
- For image scanners (operated with NX Manager), to disable the registration status with Scanner Central Admin Server of multiple scanners at one time, apply a new set of scanner settings to target scanners.
- For network scanners, to disable the registration status with Scanner Central Admin Server of multiple scanners at one time, apply a new set of system preferences to target scanners.
- To manage the scanner centrally again, re-register the scanner in the Scanner Central Admin Server.

Editing a Group

On the Scanner Central Admin Console window, groups can be added to scanners managed by the console or changed, and a scanner that is in a group can also be removed from the group.

■Adding Groups to Scanners/Changing Groups

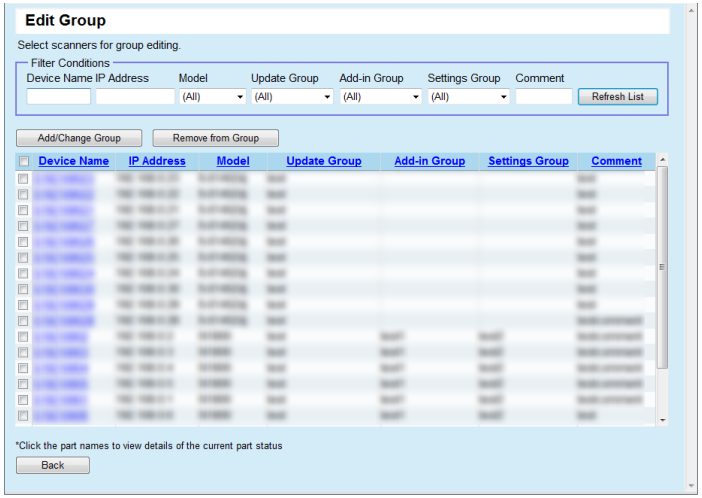
You can add the following groups to a scanner and also change the groups set to a scanner all in one go.

- Update group
- Add-in group (only for network scanners)
- Setting group (only for network scanners)

To add a group, change the settings of an existing group or create a new group.

1 Press the [Scanner Config List] tab on the Scanner Central Admin Console main window.
⇨ The [Scanner Config List] appears.

2 Press the [Edit Group] button.
⇨ The [Edit Group] window appears.



3 Select the check box of a scanner in a group which is to be added or changed, and press the [Add/Change Group] button.
⇨ The window for editing the group name appears.

4 Configure each setting.
For information about the settings, refer to the Scanner Central Admin Console Help.

5 Press the [OK] button.
⇨ A group for the scanner is added or changed.
In addition, that group is also registered in the scanner configuration.

■Removing a Scanner from a Group

You can remove a scanner from all of the following groups at once.

- Update group
- Add-in group (only for network scanners)
- Setting group (only for network scanners)

1 Press the [Scanner Config List] tab on the Scanner Central Admin Console main window.
⇨ The [Scanner Config List] window appears.

2 Press the [Edit Group] button.
⇨ The [Edit Group] window appears.

3 Select the check box for a scanner to be removed from a group and press the [Remove from Group] button.
⇨ The window for selecting the group names appears.

4 Select the types of groups that the scanner will be removed from and press the [OK] button.
⇨ The scanner is removed from the selected groups.
In addition, the groups are also removed from the scanner configuration.

Exporting Scanner Configuration

Scanner configuration can be exported to a file in the Scanner Central Admin Console window.

1. Press the [Config List] tab in the Scanner Central Admin Console main window.
   ⇨ The [Scanner Config List] window appears.
2. Press the [Export Config] button.
   ⇨ A window to confirm whether or not to export the scanner configuration appears.
3. Select scanner information to be exported, and press the [OK] button.
   ⇨ The [File Download] dialog box appears.
4. Press the [Save] button.
   ⇨ The [Save As] dialog box appears.
5. Specify the export destination.
6. Press the [Save] button.
   ⇨ The scanner configuration file is exported to the specified destination.
   For details about the format of the scanner configuration file to be exported, refer to "Scanner Configuration File Format (for Exporting)" (page 155).

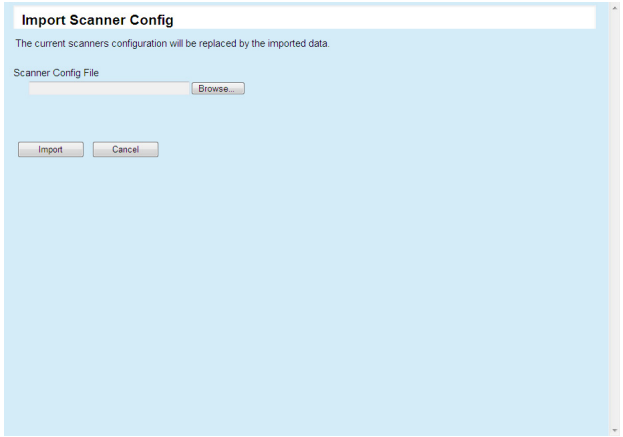
Importing Scanner Configuration

In the Scanner Central Admin Console window, scanner configuration can be registered for several scanners at once, by importing the scanner configuration file.
For details about the importable data (settings) allowed in a scanner configuration file, refer to "Scanner Configuration File Format (for Importing)" (page 167).
Also note that imported scanner configuration data can be changed at once for the scanners.

ATTENTION

- Only those settings detailed as being importable may be imported.
- Even if scanner configuration is imported, the scanner cannot be centrally managed until registration from the scanner is completed.

1. Press the [Config List] tab in the Scanner Central Admin Console main window.
   ⇨ The [Scanner Config List] window appears.
2. Press the [Import Config] button.
   ⇨ The [Import Scanner Config] window appears.



3 Specify the scanner configuration file to be imported.
Press the [Browse] button to select a file.

4 Press the [Import] button.
⇨ The scanner configuration file is imported and the applicable scanners are configured.

ATTENTION

- Importing a scanner configuration file that contains zero scanner entries will cause all of the existing scanner configuration information to be deleted.
- The imported scanner configuration file overwrites the current scanner configuration.
- If the imported scanner configuration information contains the same MAC address or scanner name as in the existing scanner configuration information, the MAC address or the scanner name will be recognized as already existing. This is determined in the order of MAC address, scanner name. In this case, on the table shown in "3.13 Managing the Scanners" (page 88), items in the "Configuration from file" column marked "Yes" are replaced, and those marked with "-" are left as they are.
- If the same MAC address or scanner name does not exist, the imported scanner configuration information will be added.

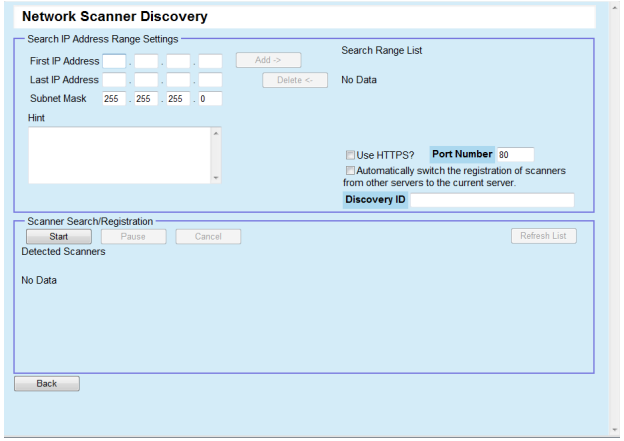
Network Scanner Auto Discovery/Network Scanner Registration

Network Scanner

On the Scanner Central Admin Console window, unregistered network scanners that exist in the specified network range are automatically detected and registered.
Also, the registration of network scanners from other Scanner Central Admin Servers can be forcibly registered to the Scanner Central Admin Server that executed the search.

1 Press the [Config List] tab on the main window of Scanner Central Admin Console.
⇨ The [Scanner Config List] window appears.

2 Press the [Network Scanner Discovery] button.
⇨ The [Network Scanner Discovery] window appears.



3 Specify the network search range and the subnet mask.

4 Press the [Add ->] button.

➪ The specified network range is displayed in [Search Range List].

HINT

When the IP addresses specified as the network range to be searched are not added to [Search Range List], hints for correctly adding them to [Search Range List] are shown.

5 Select the check boxes of the network ranges to be searched from [Search Range List].

6 For [Port Number], set the HTTP communication port number used when attempting to request for a scanner search.To change the type of HTTP/HTTPS, select the [Use HTTPS?] check box.

HINT

Specify the settings of [Port Number] and the [Use HTTPS?] check box according to the administrator settings of the scanner to be searched in the following way. For more details, refer to the Operator's Guide of your scanner model.

- [Port Number]
  Set the same value as the value for [Port Number] in [Network Settings]→[Network Admin]→[Admin Connection] on the scanner.
- [Use HTTPS?] check box
  The setting for [SSL] in [Network Settings]→[Network Admin]→[Admin Connection] on the scanner:
  - For enabling: Select the check box.
  - For disabling: Clear the check box.

7 Select the [Automatically switch the registration of scanners from other servers to the current server.] check box to forcibly register scanners already registered to other Scanner Central Admin Servers.

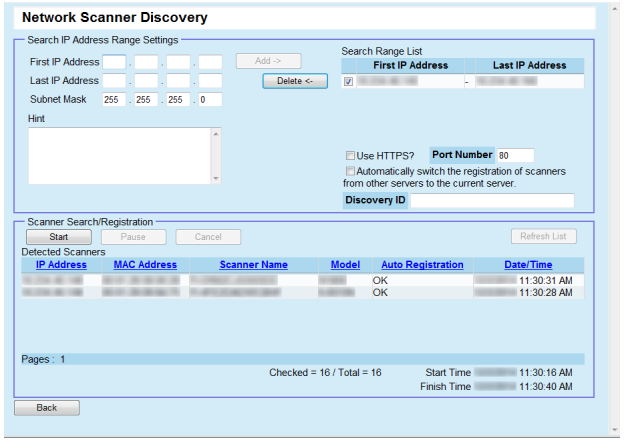
8 When targeting a specific scanner as a registration target for Scanner Central Admin Server, enter the Discovery ID set on the scanner.

HINT

- By entering the Discovery ID set on the scanner for [Discovery ID], only the scanner with that Discovery ID is searched.
- The Discovery ID may be up to 100 characters long. Alphanumeric characters and symbols can be used.

9 Press the [Start] button.

➪ Scanner discovery starts, and the result appears in [Detected Scanners] when finished.



10 Press the [Back] button.
⇨ The [Scanner Config List] appears again.

HINT
For scanners registered by scanner discovery, “Scanner Discovery (date that Scanner Discovery was executed)” is written in the [Comment] column of the [Scanner Config List] window.

Editing Items to be Displayed in the Scanner List

Items to be displayed in the scanner list can be edited in the Scanner Central Admin Console window.

1 Press the [Scanner Config List] tab in the Scanner Central Admin Console main window.
⇨ The [Scanner Config List] window appears.

2 Press the [Edit items to display] button.
⇨ The window for selecting items to display appears.

3 Select the check boxes of the items to be displayed in the scanner list.

4 Press the [Up] button or the [Down] button to set the order of the items that are displayed.

5 Press the [OK] button.
⇨ The set items are displayed in the scanner list.

Checking Scanner Details

Scanner details can be checked in the Scanner Central Admin Console window.
Scanner details are updated at the same time as the operating status of the scanners. For details about the timing of the update, refer to "3.12 Monitoring the Scanners" (page 81).

1 Press the [Config List] tab in the Scanner Central Admin Console main window.
⇨ The [Scanner Config List] window appears.

2 Click the link of the scanner whose details you want to view.
⇨ The [Scanner Details] window appears.

3 Check the scanner details.
For information about the settings, refer to the Scanner Central Admin Console Help.

3.14 Maintaining the Scanners

If scanners where replacement of consumable parts is required, where an error occurs or where maintenance is required are found in the Scanner Central Admin Console window, you can take appropriate action on those scanners.

When a consumable part needs to be replaced

Check the Scanner Central Admin Console [Scanner Details] window for what consumable part needs to be replaced, and replace the applicable part.
For details about replacing consumable parts, refer to the Operator's Guide of your scanner model.

When an error has occurred

Check the error details in the Scanner Central Admin Console [Event Details] window, and take the appropriate action.
For details about errors and actions to take, refer to the Operator's Guide of your scanner model.

When maintenance for a scanner needs to be performed

Check the Scanner Central Admin Console [Scanner Details] window for the maintenance information, and perform the required maintenance.
For details about maintaining scanners, refer to the Operator's Guide of your scanner model.

3.15 Operation Examples

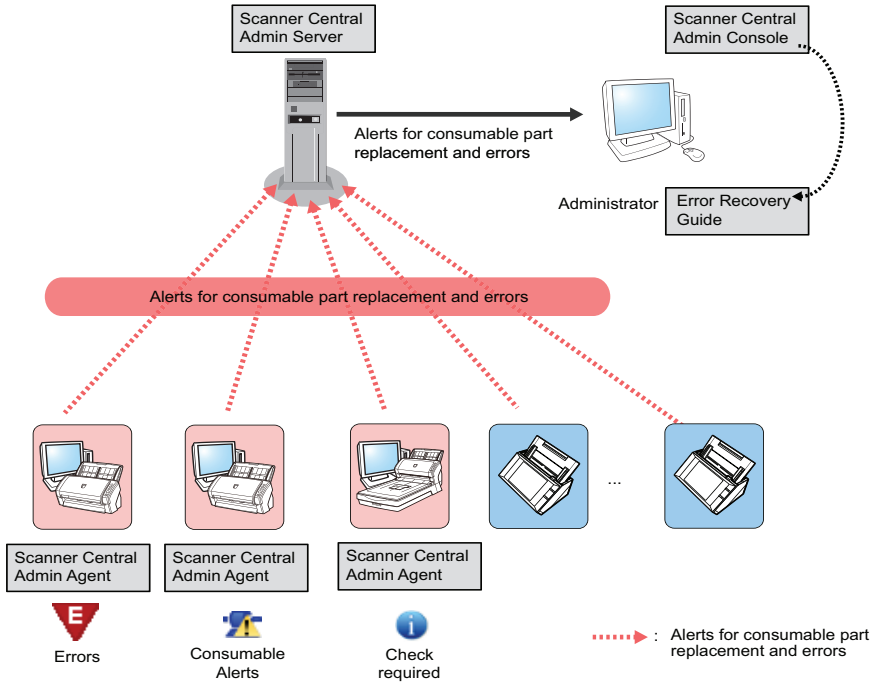
This section provides operation examples.
The following two operation examples are explained here.

- Operation for monitoring scanners
- Operation for updating scanners

The following explains each operation example.

Operation for Monitoring Scanners

The Scanner Central Admin Console window can be used to monitor scanners by checking the status of scanner consumable parts, errors and maintenance reported from the scanners.



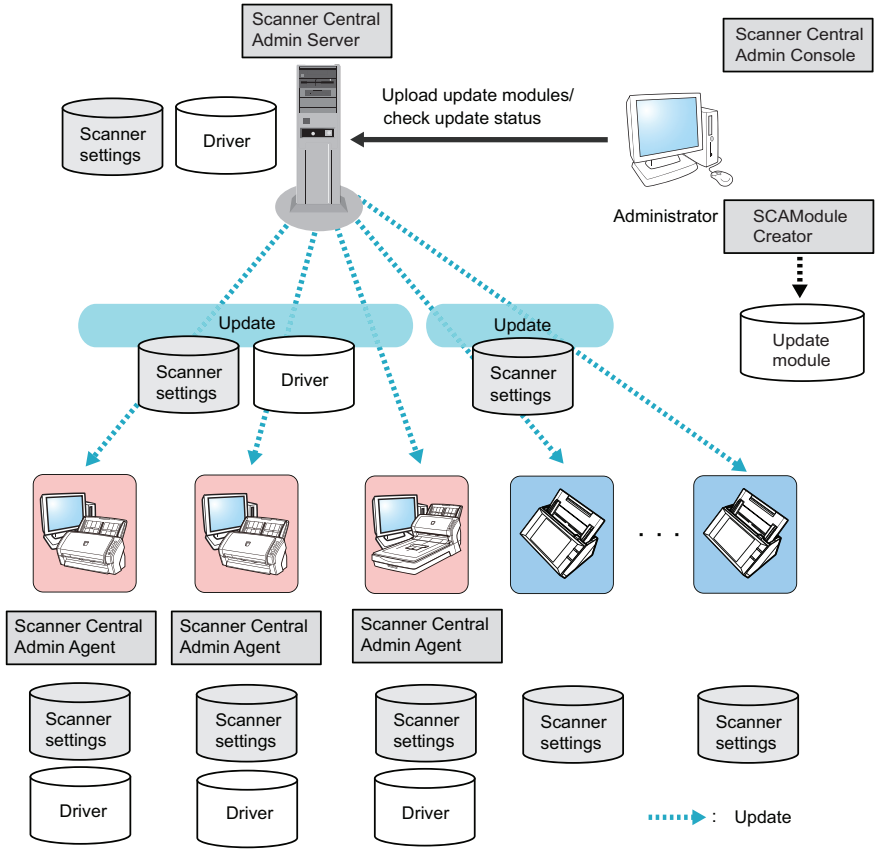
1 Login from the Scanner Central Admin Console.
For details about logging from the Scanner Central Admin Console, refer to "3.4 Login from the Scanner Central Admin Console" (page 49).

2 Check the Scanner Central Admin Console [Scanner Details] window for what consumable part needs to be replaced, and replace the applicable part. Check the maintenance information to perform cleaning.

3 Check the error details in the Scanner Central Admin Console [Event Details] window, and take the appropriate action.
For image scanners/image scanners (operated with NX Manager), the [Error Details] button becomes enabled if an error occurs in the scanner. Click the [Error Details] button to bring up the "Error Recovery Guide" corresponding to the scanner error. Check the information displayed and deal with the problem accordingly.

Operation for Updating Scanners

Scanner settings and drivers can be updated for multiple scanners at once. Updating scanners can be done during nighttime or other periods when the scanners are not used.



1 Create update modules.
To create update modules, refer to "Creating an Update Module" (page 61).

2 Login from the Scanner Central Admin Console.
For details about logging from the Scanner Central Admin Console, refer to "3.4 Login from the Scanner Central Admin Console" (page 49).

3 Confirm that there are no problems with the update by using a scanner for an operation check.
Specify a settings group with a scanner to be used for checking operations, and check that there are no problems by performing Steps 4 to 6.

4 In the following Scanner Central Admin Console windows, upload the update modules to the Scanner Central Admin Server:

- [Image Scanner Update Registration] window
- [System Updates] window
- [Add-in Installs] window
- [System Preferences] window
- [Job Mode Settings] window

HINT

Set the following to distribute the load when installing the update module:

- Split the settings group into several groups
- Change the update schedule to be performed per group, and register/distribute the update module

5 Install the update modules.

Update modules are installed when one of the following occurs:

- For image scanners:
  - The computer connected to the scanner is logged on.
  - On the computer connected to the scanner, [Install Updates] is selected from the right-click menu of the Scanner Central Admin Agent icon in the notification area.
  - The [Regularly check for updates] check box has been selected in the Scanner Central Admin Agent [Scanner Central Admin Server Settings] window, and the time specified in [Check Interval] has elapsed.
  - The [Install updates while the computer is logged off] check box has been selected in the Scanner Central Admin Agent [Scanner Central Admin Server Settings] window, and the computer connected to the scanner is logged off.
- For image scanners (operated with NX Manager):
  - Scanner is started
  - Scanner is logged out
- For network scanners:
  - Scanner is started, or enters into standby mode
  - Scanner is logged out
  - Scanner is notified of any update modules
  - Scanner has an automatic update scheduled

6 In the Scanner Central Admin Console [Update Status List] window, check the status details of the update modules.

Chapter 4 Using e-Mail Alerts

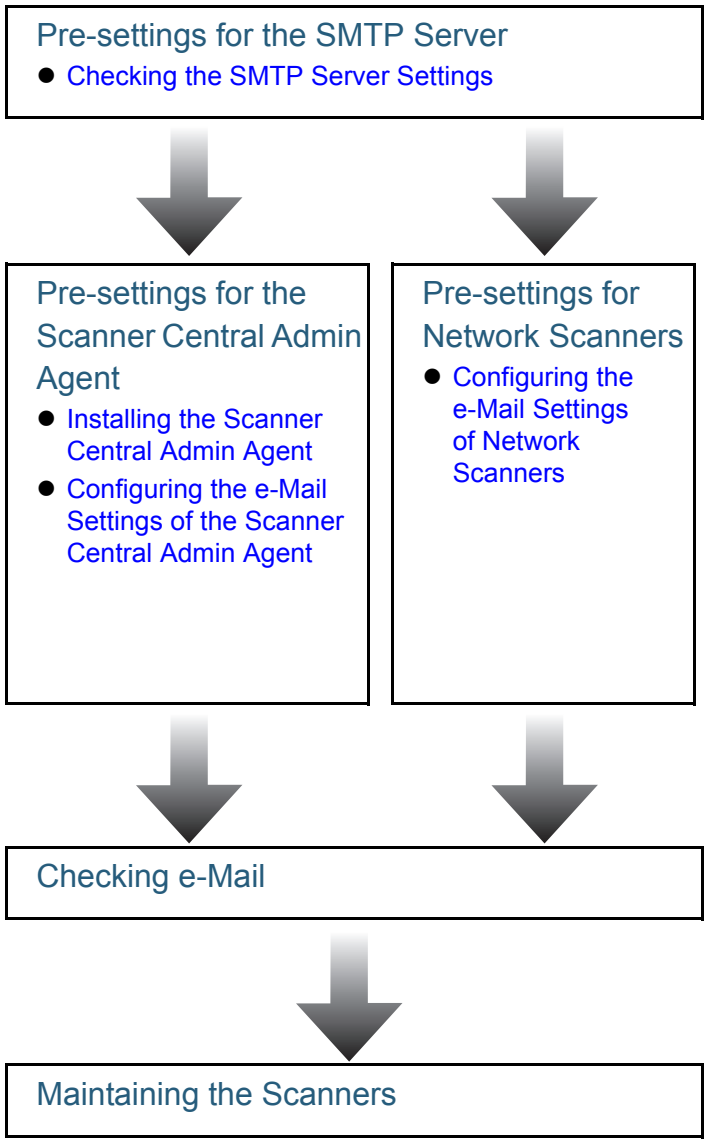
Image Scanner | Network Scanner

This chapter describes operation using e-mail alerts.

4.1 e-Mail Alerts Quick Guide 116
4.2 Pre-settings for the SMTP Server 117
4.3 Pre-settings for the Scanner Central Admin Agent 118
4.4 Pre-settings for Network Scanners 120
4.5 Checking e-Mail 121
4.6 Maintaining the Scanners 126

4.1 e-Mail Alerts Quick Guide

This section provides a quick guide for e-mail alerts.



For details, refer to "4.2 Pre-settings for the SMTP Server" (page 117).

Pre-settings for the Scanner Central Admin Agent are required for using image scanners.
For details, refer to "4.3 Pre-settings for the Scanner Central Admin Agent" (page 118).

Pre-settings for network scanners are required for using network scanners.
For details, refer to the Operator's Guide of your scanner model.

ATTENTION

When the Scanner Central Admin Server is used, an error notification e-mail can be sent from the Scanner Central Admin Server, not from each scanner. To send an error notification e-mail from the Scanner Central Admin Server, use the [Scanner Central Admin Server Settings (Common Settings)] window of the Scanner Central Admin Console.

For details, refer to "4.5 Checking e-Mail" (page 121).

For details, refer to "4.6 Maintaining the Scanners" (page 126).

4.2 Pre-settings for the SMTP Server

This section describes the pre-settings for the SMTP server.

Checking the SMTP Server Settings

Check the address and port number of the SMTP server.
For details, contact your system administrator.

4.3 Pre-settings for the Scanner Central Admin Agent

Image Scanner

This section describes the pre-settings for the Scanner Central Admin Agent.

Installing the Scanner Central Admin Agent

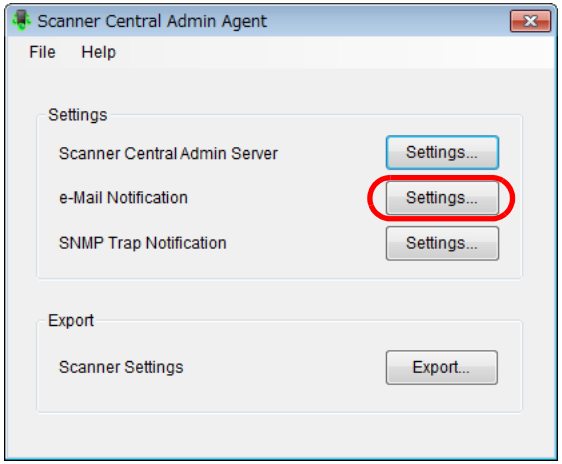
Install the Scanner Central Admin Agent on a computer connected to scanners.
For details about installing the Scanner Central Admin Agent, refer to "2.4 Installing the Scanner Central Admin Agent" (page 37).

Configuring the e-Mail Settings of the Scanner Central Admin Agent

Configure the e-mail settings of the Scanner Central Admin Agent.
This allows the administrator to receive e-mail alerts for consumable parts, scanner errors, and scanner information.

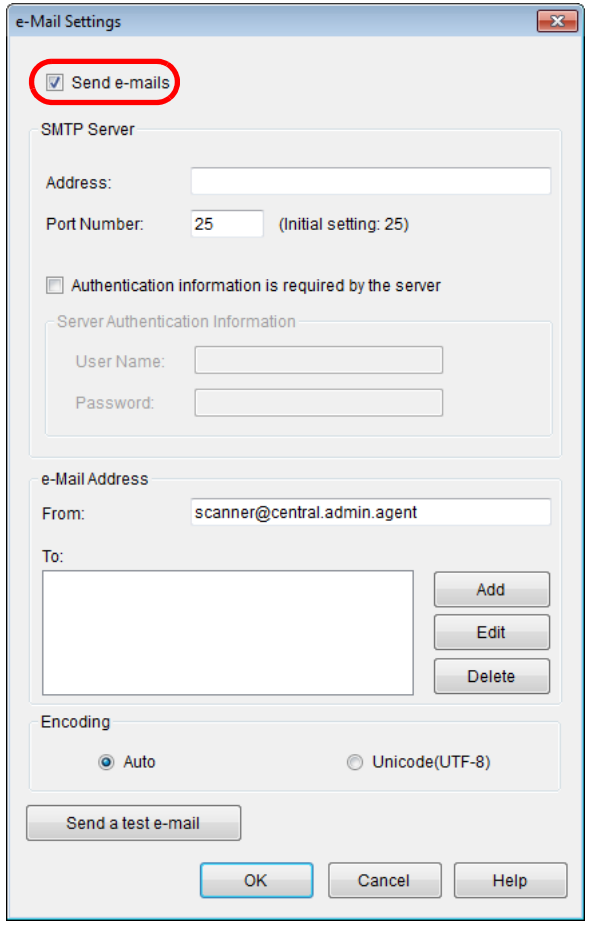
1. Select the [Start] menu→[All Programs]→[Scanner Central Admin Agent]→[Scanner Central Admin Agent Setup].
   ⇨ The [Scanner Central Admin Agent] window appears.

2. Click the [Settings] button for [e-Mail Notification].



⇨ The [e-Mail Settings] window appears.

3 Select the [Send e-mails] check box.



4 Set the SMTP server, e-mail addresses, and encoding.

Set the same SMTP server address and port number as those you checked in "Checking the SMTP Server Settings" (page 117).

For information about the settings, refer to the Scanner Central Admin Agent Help.

5 Press the [Send a test e-mail] button.

Check whether a test e-mail is successfully sent.

For details about the test e-mail format, refer to "4.5 Checking e-Mail" (page 121).

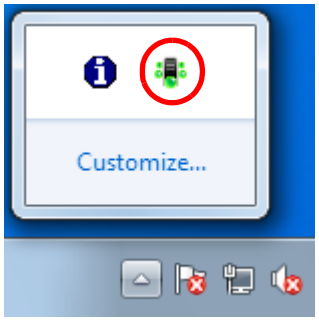
ATTENTION

If the computer name includes characters other than alphanumerics (a-z, A-Z, 0-9) and hyphen (-), an e-mail cannot be sent.

6 Press the [OK] button.

⇨ This enables the settings, and the [Scanner Central Admin Agent] window appears again.

The Scanner Central Admin Agent icon appears in the notification area.



4.4 Pre-settings for Network Scanners

Network Scanner

This section describes the pre-settings for network scanners.

Configuring the e-Mail Settings of Network Scanners

Configure the e-mail settings of network scanners.
This allows the administrator to receive e-mail alerts for consumable parts and scanner errors.
For more details, refer to the Operator's Guide of your scanner model.

4.5 Checking e-Mail

You can check e-mail that would be sent if a consumable part needs to be replaced or if an error occurs.
The e-mail format is as follows:

Subject

Message from Scanner Central Admin Agent (*1) (*2)

Body

This e-mail is an event notification from the Scanner Central Admin Agent [computer from which the error message is sent]. (*1)

Date/Time	: Message notification date/time (Format: MM/DD/YYYY hh:mm:ss AM or PM)
Origin	: Computer from which the message is sent
IP Address	: IP address of the computer from which the message is sent
Model	: Model of the scanner related to the message
Serial Number	: Serial number of the scanner related to the message
Type	: Message type (*3)
Message Code	: Message code (*4) (*5)
Message	: Message description (*4) (*5)

*1: For network scanners, the "Scanner Central Admin Agent" reflects the environment of each scanner.

*2: For a test e-mail, the subject starts with "[Test]".

*3: Event types are as follows:

Information	: Information message
Error	: Error message
Warning	: Warning message
- (hyphen)	: Test e-mail

*4: For details about the message codes and message description, refer to the Scanner Central Admin Console Help.

*5: A hyphen ("-") is always used for test e-mail.

Example: When Event Type Is "Information"

Subject

Message from Scanner Central Admin Agent

Body

This e-mail is an event notification from the Scanner Central Admin Agent [PC-001].

Date/Time	: MM/DD/YYYY hh:mm:ss AM or PM
Origin	: PC-001
IP Address	: xxx.xxx.xxx.xxx
Model	: fi-xxxxx
Serial Number	: 000660(B1)
Type	: Information
Message Code	: 0F080001
Message	: Scanner was changed.

Example: When Event Type Is "Error"

Subject

Message from Scanner Central Admin Agent

Body

This e-mail is an event notification from the Scanner Central Admin Agent [PC-001].

Date/Time	: MM/DD/YYYY hh:mm:ss AM or PM
Origin	: PC-001
IP Address	: xxx.xxx.xxx.xxx
Model	: fi-xxxxx
Serial Number	: 000660(B1)
Type	: Error
Message Code	: 8F060001
Message	: Scanner parts replacement notification was detected. [048005, 87: Drive error]

Example: When Event Type Is "Warning"

Subject

Message from Scanner Central Admin Agent

Body

This e-mail is an event notification from the Scanner Central Admin Agent [PC-001].

Date/Time	: MM/DD/YYYY hh:mm:ss AM or PM
Origin	: PC-001
IP Address	: xxx.xxx.xxx.xxx
Model	: fi-xxxxx
Serial Number	: 000660(B1)
Type	: Warning
Message Code	: 6F070002
Message	: Scanner consumable needs to be replaced soon. Consumable Parts: BRAKE ROLLER

Example: When Event Type Is "Test e-Mail"

Subject

[Test] Message from Scanner Central Admin Agent

Body

This e-mail is an event notification from the Scanner Central Admin Agent [PC-001].

Date/Time	: MM/DD/YYYY hh:mm:ss AM or PM
Origin	: PC-001
IP Address	: xxx.xxx.xxx.xxx
Model	: fi-xxxxx
Serial Number	: 000660(B1)
Type	: -
Message Code	: -
Message	: -

By sending an e-mail from the Scanner Central Admin Agent, you can check the e-mail that would be sent if you select the [Send scanner information regularly] check box in the [Add / Edit "To:" Address] window.
The e-mail format is as follows:

Subject

Message from Scanner Central Admin Agent

Body

This e-mail is a scanner information notification from the Scanner Central Admin Agent [computer from which the error message is sent].

[The message that was registered in [Message] of the [Add / Edit "To:" Address] window]

Collected Date/Time : (Format: MM/DD/YYYY hh:mm:ss)
Origin : Computer from which the message is sent
IP Address : IP address of the computer from which the message is sent
Model : Model of the scanner related to the message
Serial Number : Serial number of the scanner related to the message
Operating System : Operating System of the computer from which the message is sent
MAC Address : xx:xx:xx:xx:xx:xx
Initial Use : (Format: MM/DD/YYYY hh:mm:ss)
Connection Interface : xxxx
Total Throughput : xxx
Consumable Status (Sheets) (*1) : xxx/xxx
Consumable Status (*1) : Normal/Replace soon/Replace now
Operating Status : In use/Offline/Unreported
Error Status : No/Yes
Installed Scanner Software : xxxxxxxx

*1: The status of each consumable in your scanner is displayed.

Example: When [Send scanner information regularly] is Selected

Subject

Message from Scanner Central Admin Agent

Body

This e-mail is a scanner information notification from the Scanner Central Admin Agent [PC-001].

XXXXXXXXXXXXXXXXXX.

Collected Date/Time : MM/DD/YYYY hh:mm:ss
Origin : PC-001
IP Address : xxx.xxx.xxx.xxx
Model : fi-xxxxx
Serial Number : 000660(B1)
Operating System : Windows 10 X.X.XXXX XXXXX XXXX
MAC Address : xx:xx:xx:xx:xx:xx
Initial Use : MM/DD/YYYY hh:mm:ss
Connection Interface : USB2.0
ADF Total Throughput (Sheets) : xxx
PICK ROLLER (Sheets) : xxx/xxx
PICK ROLLER Status : Replace now
Brake Roller (Sheets) : xxx/xxx
Brake Roller Status : Normal
Operating Status : In use
Error Status : No
TWAIN Driver : XXXXXXXX
Scanner Central Admin Agent : X.XX.XXXX.XX
Firmware : XXXX

4.6 Maintaining the Scanners

You can take appropriate action according to the e-mail sent when a consumable part needs to be replaced or if an error occurs.

When a consumable part needs to be replaced

Check the e-mail for what consumable part needs to be replaced, and replace the applicable part.
For details about replacing consumable parts, refer to the Operator's Guide of your scanner model.

When an error has occurred

Check the error details in the e-mail, and take the appropriate action.
For details about errors and actions to take, refer to the Operator's Guide of your scanner model.

Chapter 5 Linking with the Integrated Management System

Image Scanner | Network Scanner

This chapter describes operations that are linked with the integrated management system.

5.1 Integrated Management System Quick Guide....128
5.2 Pre-settings for the Integrated Management System....130
5.3 Pre-settings for the Scanner Central Admin Agent....132
5.4 Pre-settings for the Network Scanners....134
5.5 Checking SNMP Traps....135
5.6 Maintaining the Scanners....137

5.1 Integrated Management System Quick Guide

This section provides a quick guide for the integrated management system.

Pre-settings for the Integrated Management System

- Configuring the Integrated Management System (SNMP Manager)
- Checking the Integrated Management System (SNMP Manager)
- Configuring the Integrated Management System to Start Up Scanner Central Admin Console

For details, refer to "5.2 Pre-settings for the Integrated Management System" (page 130).

Pre-settings for the Scanner Central Admin Agent

- Installing the Scanner Central Admin Agent
- Configuring the SNMP Trap Notification for the Scanner Central Admin Agent

These settings are required for using image scanners.
For details, refer to "5.3 Pre-settings for the Scanner Central Admin Agent" (page 132).

Pre-settings for the Network Scanners

- Configuring the SNMP Linking for the Network Scanners

This setting is required for using network scanners.
For details, refer to "5.4 Pre-settings for the Network Scanners" (page 134).

Checking SNMP Traps

For details, refer to "5.5 Checking SNMP Traps" (page 135).

Maintaining the Scanners

For details, refer to "5.6 Maintaining the Scanners" (page 137).

5.2 Pre-settings for the Integrated Management System

This section describes the pre-settings for the integrated management system.

Configuring the Integrated Management System (SNMP Manager)

Enable the SNMP manager that receives SNMP traps.
The port number "UDP/162" is used for SNMP traps. Set this port for the integrated management system network so that SNMP trap can be received.
For details, refer to the integrated management system manual.

Checking the Integrated Management System (SNMP Manager)

Check the address and community name of the integrated management system that runs the SNMP manager.
For details, refer to the integrated management system manual.

Configuring the Integrated Management System to Start Up Scanner Central Admin Console

Configure the integrated management system so that you can start up Scanner Central Admin Console from the integrated management system and check consumable parts replacement, error, or scanner information.
To start up Scanner Central Admin Console from the integrated management system, register the ScannerCentralAdminConsole.exe command in the integrated management system.
For details, refer to the integrated management system's manual.
The command execution format is shown below.

- Command storage location

  Under the [\AmConsole\Console] folder in the installation folder of Scanner Central Admin Console

- Command execution format

  ScannerCentralAdminConsole.exe -h {host name or IP address} -p {port number} [-https] -i {scanner IP address}

  Italic face indicates variable characters.

  -h: Specify the host name or IP address of Scanner Central Admin Server to which Scanner Central Admin Console is connected. This cannot be omitted.

  -p: Specify the port number that is used when Scanner Central Admin Console is connected to Scanner Central Admin Server. This cannot be omitted.

  -https: Specify this option only if HTTPS is used when Scanner Central Admin Console is connected to Scanner Central Admin Server. This can be omitted.

-i: Specify the IP address of the scanner for which you display the [Scanner Details] window. This cannot be omitted.

HINT

An example of executing ScannerCentral Admin Console.exe is shown below.

IP address: 192.168.1.1
Port number: 10444
Scanner IP address: 192.168.1.100

```
ScannerCentralAdminConsole.exe -h 192.168.1.1 -p 10444
 -i 192.168.1.100
```

When you start up Scanner Central Admin Console that is registered in the integrated management system, the login window for Scanner Central Admin Server to which Scanner Central Admin Console is connected will be displayed.
After you log in Scanner Central Admin Server, a different window is displayed according to the status of the scanner to display.

- When an error occurs in the scanner
  The [Event Log] window appears.
- When no error occurs in the scanner
  The [Scanner Details] window appears.

HINT

- When you cannot connect to Scanner Central Admin Server that was specified when you register Scanner Central Admin Console in the integrated management system, the window for entering the target server appears.
  Check if the specified information for Scanner Central Admin Server is correct.
- The scanner with the IP address that was specified when you register Scanner Central Admin Console in the integrated management system is not registered in Scanner Central Admin Server, the default window that was specified in the [Scanner Central Admin Server Settings] window appears. Check if the specified IP address is correct.

5.3 Pre-settings for the Scanner Central Admin Agent

This section describes the pre-settings for the Scanner Central Admin Agent.

Installing the Scanner Central Admin Agent

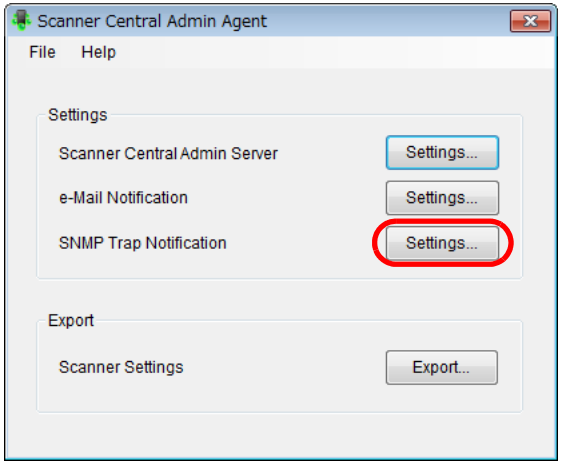
Install the Scanner Central Admin Agent on a computer connected to scanners.
For details about installing the Scanner Central Admin Agent, refer to "2.4 Installing the Scanner Central Admin Agent" (page 37).

Configuring the SNMP Trap Notification for the Scanner Central Admin Agent

Configure the SNMP trap message settings for the Scanner Central Admin Agent.
This allows the integrated management system to receive SNMP trap messages concerning consumable parts and scanner errors.

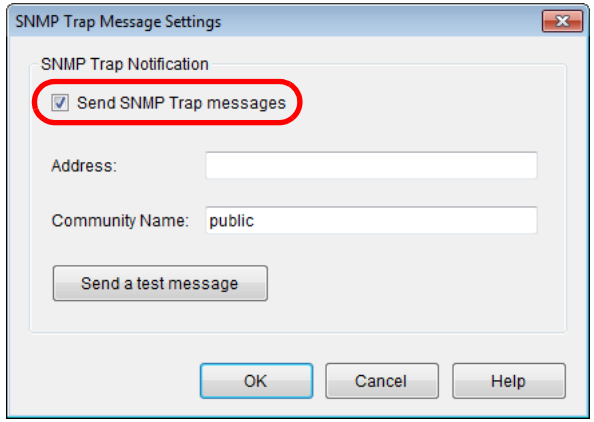
1 Select the [Start] menu→[All Programs]→[Scanner Central Admin Agent]→[Scanner Central Admin Agent Setup].
⇨ The [Scanner Central Admin Agent] window appears.

2 Press the [Settings] button for [SNMP Trap Notification].



⇨ The [SNMP Trap Message Settings] window appears.

3 Select the [Send SNMP Trap messages] check box.



4 Set the address and community name.

Set the same address and community name as those you checked in "Checking the Integrated Management System (SNMP Manager)" (page 130).

For information about the settings, refer to the Scanner Central Admin Agent Help.

5 Press the [Send a test message] button.

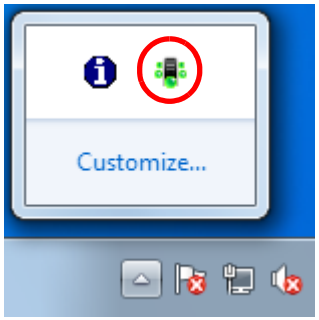
Check whether SNMP traps are successfully sent.

For details about the SNMP trap format, refer to "5.5 Checking SNMP Traps" (page 135).

6 Press the [OK] button.

⇨ This enables the settings, and the [Scanner Central Admin Agent] window appears again.

The Scanner Central Admin Agent icon appears in the notification area.



5.4 Pre-settings for the Network Scanners

This section describes the pre-settings for the network scanners.

Configuring the SNMP Linking for the Network Scanners

Configure the SNMP linking for the network scanners.
For details, refer to the Operator's Guide for the scanner that you use.

5.5 Checking SNMP Traps

You can check SNMP traps that would be sent if a consumable part needs to be replaced or if an error occurs.
In Scanner Central Admin, SNMP traps are of version "SNMPv1", community name "public" by default (can be changed by setting), Generic Trap Type "enterpriseSpecific(6)", and Specific Trap Type "0".
The SNMP trap OID is as follows:

1.3.6.1.4.1.18886.1.2.1

The SNMP trap format is as follows:

Date/Time, Origin, IP_Address, Model, Serial_Number, Event_Type, Message_Code, Message

Date/Time : Message notification date/time (Format: MM/DD/YYYY hh:mm:ss AM or PM)
Origin : Computer from which the message is sent
IP_Address : IP address of the computer from which the message is sent
Model : Model of the scanner related to the message
Serial_Number : Serial number of the scanner related to the message
Event_Type : Message type (*1)
Message_Code : Message code (*2) (*3)
Message : Contents of the message (*2) (*4)

*1: Event types are as follows:
Information : Information message
Error : Error message
Warning : Warning message
Test : Send a test message

*2: For details about the message codes and message descriptions, refer to "A.11 Message Code Notifications via SNMP Traps" (page 184).
Messages are shown in English. Make sure you read the description before proceeding.

*3: "0F090000" is always used as the test message.

*4: "This is a test message from the Scanner Central Admin Agent." is always used as the test message.

Example: When Event Type Is "Information"

MM/DD/YYYY hh:mm:ss AM,PC-001,xxx.xxx.xxx.xxx,fi-xxxxx,000660(B1),Information,0F080001,Scanner was changed.

Example: When Event Type Is "Error"

MM/DD/YYYY hh:mm:ss AM,PC-001,xxx.xxx.xxx.xxx,fi-xxxxx,000660(B1),Error,8F060001,Scanner Parts replacement notification was detected. [048005, 00: Background changeover unit failure]

Example: When Event Type Is "Warning"

MM/DD/YYYY hh:mm:ss AM,PC-001,xxx.xxx.xxx.xxx,fi-xxxxx,000660(B1),Warning,6F070002,Scanner consumable needs to be replaced soon. Consumable Parts: BRAKE ROLLER

Example: When Event Type Is "Test e-Mail"

MM/DD/YYYY hh:mm:ss AM,PC-001,xxx.xxx.xxx.xxx,fi-xxxxx,000660(B1),Test,0F090000,This is a test message from Scanner Central Admin Agent.

5.6 Maintaining the Scanners

You can take appropriate action according to SNMP traps that are sent when a consumable part needs to be replaced or if an error occurs.

When a consumable part needs to be replaced

Check the SNMP trap for what consumable part needs to be replaced, and replace the applicable part.
For details about replacing consumable parts, refer to the Operator's Guide of your scanner model.

When an error has occurred

Check the error details in the SNMP trap, and take the appropriate action.
For details about errors and actions to take, refer to the Operator's Guide of your scanner model.

Chapter 6 Maintenance of Scanner Central Admin

This chapter describes maintenance of Scanner Central Admin.

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6.2 Maintaining the Scanner Central Admin Agent 142
6.3 Obtaining Technical Support on the SCAModuleCreator 144
6.4 Maintaining Image Scanners (Operated with NX Manager)/Network Scanners 145

6.1 Maintaining the Scanner Central Admin Server

This section describes maintenance of the Scanner Central Admin Server.
Scanner Central Admin Server settings set by the administrator can be backed up, restored, and obtained.

ATTENTION
Audit logs are not backed up or restored by the operations described below, because they are not included in the Scanner Central Admin Server settings.

Backing Up Scanner Central Admin Server Settings

All data managed in the Scanner Central Admin Server (excluding audit logs) can be backed up.
Scanner Central Admin Server settings can be restored using the backup file. Take backups periodically just in case.
To back up Scanner Central Admin Server settings, execute "AmBackup.exe" in the command prompt on the computer installed with the Scanner Central Admin Server.
When backing up, the Scanner Central Admin Server is in a temporarily suspended state. Connection from the Scanner Central Admin Console or uploading/downloading of user roaming data, and installation of updates to scanners are not possible. In the [Scanner Operation Monitor] window, the operating status of all scanners is indicated as "Unreported".

- Command storage location

  Under the [\AmManager\Bin] folder in the installation folder of the Scanner Central Admin Server

- Command executable format

  AmBackup.exe *BackupFolderName*

  The italic text represents variable character strings.

- Return value
  - 0
    Succeeded
  - Other than 0
    Failed

ATTENTION
- Specify a folder without files and sub-folders as the backup folder. If the specified backup folder does not exist, it is created.
- Do not change the backup folder structure. If changed, restoration may not be processed correctly.
- Do not change the content of the backup file of Scanner Central Admin Server settings.If the backup file content is changed and restored, processes related to the Scanner Central Admin Server may operate improperly.
- All files in the installation folder are deleted when the Scanner Central Admin Server is uninstalled. Therefore, save all backup files to a location other than the installation folder.

HINT
Before executing the AmBackup.exe command, confirm that the storage disk has sufficient free space. If there is not enough free disk space, an incomplete file may be saved.
The required free capacity is approximately twice the free capacity under the [Data] folder in the installation folder.

Restoring Scanner Central Admin Server Settings

Scanner Central Admin Server settings that have been backed up can be restored to the Scanner Central Admin Server.
To restore Scanner Central Admin Server settings, execute "AmRestore.exe" in the command prompt on the computer installed with the Scanner Central Admin Server.

- Command storage location

  Under the [\AmManager\Bin] folder in the installation folder of the Scanner Central Admin Server

- Command executable format

  AmRestore.exe *BackupFolderName*

  The italic text represents variable character strings.

- Return value
  - 0

    Succeeded
  - Other than 0

    Failed

ATTENTION

- Make sure to run the AmRestore.exe command after changing the current directory to the [Bin] folder in the installation folder of the Scanner Central Admin Server.
- The language for the backup and restore Scanner Central Admin Servers must be the same. If different languages are used, the Scanner Central Admin Server may not operate correctly when restoring.

HINT

- The admin password is not backed up and restored by using the AmBackup.exe and AmRestore.exe commands. Even if the AmRestore.exe command is executed, the admin password is not changed.
- For Windows Server 2008 or later, to use HTTPS for communication to a scanner, or computer installed with the Scanner Central Admin Console, additional settings may be required for the target Scanner Central Admin Server to be restored. For more details, refer to "Importing the Certificate (for HTTPS)" (page 45).

Obtaining Technical Support on the Scanner Central Admin Server

If any problems occur when setting up or using the Scanner Central Admin Server, technical support information on the Scanner Central Admin Server can be collected to help determine the cause of the problem.
To obtain technical support information, execute "AmInvestigate.exe" in the command prompt on the computer installed with the Scanner Central Admin Server.
When obtaining technical support, the Scanner Central Admin Server is in a temporarily suspended state. Do not try to obtain technical support unless requested by your FUJITSU scanner dealer, or a problem occurs.

- Command storage location

  Under the [\AmManager\Bin] folder in the installation folder of the Scanner Central Admin Server

- Command executable format

  AmInvestigate.exe -d *OutputFolder* [-p *EncryptedPassword*] [-v]

  The italic text represents variable character strings.

  To show the status of the process, specify -v.

- Return value
  - 0

    Succeeded
  - Other than 0

    Failed

The information is output to the specified output folder for each type. If an encrypted password is specified, the technical support information is encrypted.

6.2 Maintaining the Scanner Central Admin Agent

Image Scanner

This section describes maintenance of the Scanner Central Admin Agent.
You can update the Scanner Central Admin Agent and obtain technical support information on the Scanner Central Admin Agent.

Updating the Scanner Central Admin Agent

By uploading Scanner Central Admin Agent update modules to the Scanner Central Admin Server, you can update multiple Scanner Central Admin Agents at one time on the computers connected to scanners.
In addition, you can register exported Scanner Central Admin Agent settings in the Scanner Central Admin Server as update modules so that the settings are applied to the Scanner Central Admin Agents at one time on the computers connected to scanners.
For details, refer to "3.10 Updating the Image Scanners/Image Scanners (Operated with NX Manager)" (page 60).

Obtaining Technical Support on the Scanner Central Admin Agent

If any problems occur when setting up or using the Scanner Central Admin Agent, technical support information on the Scanner Central Admin Agent can be collected to help determine the cause of the problem.
Collect technical support information by using "fiInfoCorect.exe" or "CollectAgentInfo.exe".

- When using "fiInfoCorect.exe"
  Run the "fiInfoCorect.exe" command. Follow the instructions displayed on the windows to collect technical support information.
  - Command storage location
    - For 32-bit operating systems

      %ProgramFiles%\fiScanner\fiInfoCollect\fiInfoCollect.exe

    - For 64-bit operating systems

      %ProgramFiles(x86)%\fiScanner\fiInfoCollect\fiInfoCollect.exe

- When using "CollectAgentInfo.exe"
  Run "CollectAgentInfo.exe" in the computer where the Scanner Central Admin Agent is installed.
  This command outputs "AgentInfo.cab" on the Windows desktop, which contains technical support information of the Scanner Central Admin Agent.
  - Command storage location

    Under the installation folder of the Scanner Central Admin Agent

  - Command

    CollectAgentInfo.exe

ATTENTION

- Log on to the computer as a user with Administrator privileges.
- "fiInfoCorect.exe" is installed together with scanner drivers. If "fiInfoCorect.exe" is not installed on the computer, collect technical support information by using "CollectAgentInfo.exe".

6.3 Obtaining Technical Support on the SCAModuleCreator

Image Scanner | Image Scanner (with NX Manager)

This section describes maintenance of the SCAModuleCreator.
If any problems occur when using the SCAModuleCreator, technical support information on the SCAModuleCreator can be collected to help determine the cause of the problem.
To obtain technical support information, execute "SCAModuleCreatorCollectLog.exe" on the computer installed with the Scanner Central Admin Console.
This command outputs "SCAModuleCreatorInfo_*date/time of collection*..cab" on the Windows desktop, which contains technical support information of the SCAModuleCreator.

- Command storage location

  Under the [\AmConsole\Console] folder in the installation folder of the Scanner Central Admin Console

- Command

  SCAModuleCreatorCollectLog.exe

ATTENTION
Log on to the computer as a user with Administrator privileges.

6.4 Maintaining Image Scanners (Operated with NX Manager)/Network Scanners

Image Scanner (with NX Manager) | Network Scanner

For details about maintenance of image scanners (operated with NX Manager) and network scanners, refer to the Operator's Guide of your scanner model.

Appendix

This appendix describes the following information.

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A.1 Messages

The following lists the messages that may appear during Scanner Central Admin operations.

Event Log Messages in Windows Server (Scanner Central Admin Server)

The system event log shows a list of all system events in Windows Server.

- Log type : Application
- Event source: Scanner Central Admin

Code	Message	Action
11700	Scanner Shared Folder Service has been started.	No action required.
11701	Scanner Shared Folder Service has been halted.	
13700	Scanner Shared Folder Service could not be started. Error details	Check the error details and other event logs.
13701	Error: problem with Scanner Shared Folder Service. Error details	If the event log level is [Information], no action required. If the event log level is [Error], check the error details and other event logs.

The system event log shows a list of all system events in Windows Server.

- Log type : Application
- Event source : Central Admin Server

Code	Message	Action
11001	Scanner Central Admin Server started up.	No action required.
11002	Scanner Central Admin Server shut down.	
11901	Service started successfully.	
11902	Service stopped successfully.	
12001	Default setting is being used in place of invalid value. Parameter: *XXXX* Invalid value: *XXXX* Default value: *XXXX*	
12002	Tried to exceed the scanner registration limit.	Delete unneeded scanner configuration.
12003	Tried to exceed the user roaming data registration limit.	Delete any unneeded user roaming data.
12902	Schedule notification failed. Retrying. (*XXXX*)	No action required.

Code	Message	Action
13001	Error has occurred. Type: Error type Details: Error details	Check the error details and other event logs.
13002	Inhospitable execution environment - process cannot continue. Details: Error details	
13003	Database could not be accessed. Details: Error details	Check the database operating status.
13004	Schedule could not be set. Details: Error details	Restart the Scanner Central Admin Server service.
13005	Settings used for communication between the Scanner Central Admin Server and Central Admin Console could not be changed. Details: Error details	
13901	Scheduler could not be started. (*XXXX*)	
13902	Schedule notification failed. (*XXXX*)	Check the operating status of the Web site using IIS Manager. If the operating system of the Scanner Central Admin Server is Windows Server, check the operating status of the Web site "AmService" and the application pool "AmService".
13903	Schedule *XXXX* expired and was deleted. [*XXXX*] events	The release schedules for seven or more days ago were deleted. Check the status of updates to the scanner, and issue any necessary update calls to scanners with "Pending" status.
13904	Error has occurred. (*XXXX*)	Restart the Scanner Central Admin Server service.

Backup/Restore Command Messages (Scanner Central Admin Server)

Backup/restore command messages can be arranged into the following two categories:

- Information
- Error

Backup/restore command messages will be shown on the command prompt.

■Information

Code	Message	Action
0A040001	Starting backup.	No action required.
0A040002	Finishing backup.	
0A040003	Starting restore.	
0A040004	Finishing restore.	

■Error

Code	Message	Action
7A040010	Scanner Central Admin Server is not installed.	Scanner Central Admin Server is not installed. Try again using a computer on which the Scanner Central Admin Server has been correctly installed.
7A040011	Backup folder has not been specified.	The backup file name is not specified in the parameters of the backup command and restore command. Specify the backup file, and try again.
7A040012	Backup folder does not exist.	Specify the backup folder that was specified with the backup command, and try again. Or, check the read privilege for the specified backup folder.
7A040013	Backup folder contents are invalid.	The backup folder specified in the parameter for the restore command is not the backup folder for the Scanner Central Admin Server, or the backup folder configuration is incorrect. Specify the Scanner Central Admin Server backup folder, and try again.
7A040014	Backup file already exists.	A file or folder exists in the backup folder. Specify an empty folder. If a folder that does not exist is specified, it will be created.
7A040015	Backup folder specification is invalid.	This error message is output in the following cases. After checking the error, run the command again. ● The backup folder specified in the parameter for the restore command does not have write access. ● The specified backup folder name already exists as a file. ● The backup file full path is longer than 128 bytes.
7A040016	Server is busy. Try again later.	This message appears if the backup/restore command is executed during an update call on the Scanner Central Admin Server. Wait until the update call is finished, and try again.

Code	Message	Action
7A040017	Backup failed.	If this message appears with auxiliary code [7A041012], free disk space may be insufficient. Ensure that there is enough free disk space available, and try again. If this message appears with auxiliary code [7A041015], it is possible that the database file used in the Scanner Central Admin Server is being used with applications other than the Scanner Central Admin Server. Stop using the database file, and try again. If this message appears without auxiliary code, the contents of the problem are shown in the following format. ... Problem details ... If this message appears frequently with an auxiliary code other than those mentioned above, contact your FUJITSU scanner dealer or an authorized FUJITSU scanner service provider.
7A040018	Restore failed.	If this message appears with auxiliary code [7A041013], free disk space may be insufficient. Ensure that there is enough free disk space available, and try again. If this message appears with auxiliary code [7A041008], a file in the restoration folder may be in use. Check that the file is not in use, and try again. If this message appears with auxiliary code [7A041015], it is possible that the database file used in the Scanner Central Admin Server is being used with applications other than the Scanner Central Admin Server. Stop using the database file, and try again. If this message appears without auxiliary code, the contents of the problem are shown in the following format. ... Problem details ... If this message appears frequently with an auxiliary code other than those mentioned above, contact your FUJITSU scanner dealer or an authorized FUJITSU scanner service provider.
7A040019	Backup or restore is already running.	Try again, after finishing the backup or restoration.
7A040020	Port number (*XXXX*) is already in use.	Port number (*XXXX*) is already in use by another application. Change the settings of the application using *XXXX*, and try restoring again.

Code	Message	Action
7A040021	Backup folder is not empty.	A file or folder exists in the backup folder. Specify an empty folder. If a folder that does not exist is specified, it will be created.
7A040023	Restoration from this version of backup file is not possible.	The backup file saved by executing the AmBackup.exe command in the Scanner Central Admin Server of the previous version cannot be restored with the AmRestore.exe command in the Scanner Central Admin Server of new version. Refer to the Operator's Guide of your scanner model and try backing up again.

Audit Log Export Command Messages (Scanner Central Admin Server) Network Scanner

Code	Message	Action
7A050010	Scanner Central Admin Server is not installed. Detail error message: *XXXXXXXXXX*	Check that the Scanner Central Admin Server has been installed correctly. Check whether the command is being executed with administrative privileges for the computer.
7A050012	Audit log export failed. Detail error code: *XXXXXXXXXX* Detail error message: *XXXXXXXXXX*	Check the error message, and try the following: ● Check that there is enough free disk space in the destination (export-to) folder. ● Check that the destination (export-to) folder is specified correctly. ● Check that the destination (export-to) folder, the destination (export-from) folder, and log file have write access. ● Check that there is not a file of the same file name without write access in the destination (export-to) folder. ● Check that the audit log that failed to be exported is not being used in another application.

Code	Message	Action
7A050014	Command is already running.	Try again after the command execution is completed.
7A050015	Error has occurred. Detail error message: *XXXXXXXXXX*	An unexpected error occurred. Contact your FUJITSU scanner dealer or an authorized FUJITSU scanner service provider.
7A050016	Length of specified folder path exceeds the maximum allowed.	The copy destination folder path length specified in the command line exceeds 180 bytes. Specify a copy destination folder path that is no longer than 180 bytes.

Scanner Central Admin Console Messages (Scanner Central Admin Console)

Window	Message	Action
Connect	Check the port number setting.	Enter the correct port number.
	Check the target server setting.	Enter the correct target server.
	Connection error	Check the connection target and port number, and try again.
Scanner Central Admin Console	Network Scanner Admin Tool could not be started. Check that it has been installed.	Check that the Admin Tool has been installed correctly. For more details, refer to the Operator's Guide of your scanner model.
Scanner Central Admin Message	Failed to display window. Restart Scanner Central Admin Console.	Restart Scanner Central Admin Console.

A.2 Import/Export File Formats

This section describes the following import/export file formats.

- Scanner configuration file format
- Event log file format
- Statistical information file format

Scanner Configuration File Format

The scanner configuration file format requirements differ for the following two cases:

- For exporting
- For importing

■Scanner Configuration File Format (for Exporting)

This section describes the scanner configuration file format requirements for exporting.

- The default value for the file name is "scannerinfo.csv".
- The character set of the file follows the value specified on the Scanner Central Admin Console, [Scanner Central Admin Server Settings (Common Settings)] window. The default value is UNICODE (UTF-8).
- Configuration item titles are output in the first line of the file when the file is exported.
- The file is in CSV format.
  The values for each item are as follows.
  The order of the items differ from those of the previous version.

Item	Value and Format	Image scanner	Image scanner (operated with NX Manager)	Network scanner
Admin ID	10 or 26 characters long	Yes	Yes	Yes
MAC Address	XX:XX:XX:XX:XX (X is an alphanumeric character)	Yes	Yes	Yes
IP Address	xxx.xxx.xxx.xxx (xxx is a value from 0 to 255)	Yes	Yes	Yes
Subnet Mask	xxx.xxx.xxx.xxx (xxx is a value from 0 to 255)	Yes	Yes	Yes
Device Name	-	Yes	Yes	Yes
Port Number	Numerical value from 1 to 65535	-	Yes	Yes
Use HTTPS?	0: Do not use HTTPS 1: Use HTTPS	-	Yes	Yes
Model	-	Yes	Yes	Yes
Update Group	Arbitrary character string	Yes	Yes	Yes
Add-in Group	Arbitrary character string	-	-	Yes
Settings Group	Arbitrary character string	-	-	Yes
Comment	Arbitrary character string	Yes	Yes	Yes
Scanner Type	0: Network scanner 1: Image scanner	Yes	Yes	Yes

Item	Value and Format	Image scanner	Image scanner (operated with NX Manager)	Network scanner
True Model Type	-	Yes	Yes	-
Optional Items (*1)	-	Yes	Yes	Yes
OS	-	Yes	-	-
Flatbed Scanner Model (*2) (*3)	-	-	-	Yes (*4)
Serial Number (*2)	-	Yes	Yes	Yes
Flatbed Scanner Serial Number (*2) (*3)	-	-	-	Yes (*4)
Connection Interface (*2)	Numerical value	Yes	Yes	-
Last Inventory Taken (*2)	YYYYMMDD hh:mm:ss	Yes	Yes	Yes
Initial Use (*2)	YYYYMMDD hh:mm:ss	Yes	Yes	Yes
Flatbed Initial Use (*2) (*3)	YYYYMMDD hh:mm:ss	-	-	Yes
Cumulative On Time (*2)	Numerical value	-	-	Yes
Info Last Modified (*2)	YYYYMMDD hh:mm:ss	Yes	-	Yes
Last Audit Log Collected (*2)	YYYYMMDD hh:mm:ss	-	-	Yes
Registered (*2)	0: Unregistered 1: Registered	Yes	Yes	Yes
Operating Status (*2)	0: Unreported/Unregistered 1: Offline 3: Free 4: In use	Yes	Yes	Yes
Error Status (*2)	0: No 1: Yes	Yes	Yes	Yes

Item	Value and Format	Image scanner	Image scanner (operated with NX Manager)	Network scanner
Update Status (*2)	0: NotTarget 1: Finished 2: Pending 3: Error 4: Unregistered	Yes	Yes	Yes
ADF Total Throughput (*2)	Numerical value	Yes	Yes	Yes
Flatbed Total Throughput (*2) (*3)	Numerical value	Yes	-	Yes
PAD ASSY (*2)	Numerical value	Yes	-	Yes (*5)
PAD ASSY Status (*2)	0: Allowed 1: Replace soon 2: Replace now	Yes	-	Yes (*5)
PAD ASSY Threshold (*2)	Numerical value	Yes	-	Yes (*5)
PAD ASSY: Counter Last Cleared	YYYYMMDD hh:mm:ss	Yes	-	-
PICK ROLLER (*2)	Numerical value	Yes	Yes	Yes
PICK ROLLER Status (*2)	0: Allowed 1: Replace soon 2: Replace now	Yes	Yes	Yes
PICK ROLLER Threshold (*2)	Numerical value	Yes	Yes	Yes
PICK ROLLER: Counter Last Cleared	YYYYMMDD hh:mm:ss	Yes	Yes	-
Brake Roller (*2)	Numerical value	Yes	Yes	Yes (*5)
Brake Roller Status (*2)	0: Allowed 1: Replace soon 2: Replace now	Yes	Yes	Yes (*5)
Brake Roller Threshold (*2)	Numerical value	Yes	Yes	Yes (*5)
Brake Roller: Counter Last Cleared	YYYYMMDD hh:mm:ss	Yes	Yes	-

Item	Value and Format	Image scanner	Image scanner (operated with NX Manager)	Network scanner
Separator Roller (*2)	Numerical value	Yes	-	-
Separator Roller Status (*2)	0: Allowed 1: Replace soon 2: Replace now	Yes	-	-
Separator Roller Threshold (*2)	Numerical value	Yes	-	-
Separator Roller: Counter Last Cleared	YYYYMMDD hh:mm:ss	Yes	-	-
Print Cartridge Ink Level (*2)	Numerical value	Yes	-	-
Print Cartridge Status (*2)	0: Allowed 1: Replace soon 2: Replace now	Yes	-	-
Print Cartridge: Counter Last Cleared	YYYYMMDD hh:mm:ss	Yes	-	-
Total Throughput after Cleaning	Numerical value	Yes	Yes	-
Cleaning required (Total Throughput after Cleaning)	0: Not required 1: Required	Yes	Yes	-
Cleaning threshold (Total Throughput after Cleaning)	Numerical value	Yes	Yes	-
Feed Roller	0: Not required 1: Required	Yes	-	-
Assist Roller	0: Not required 1: Required	Yes	-	-
Glass	0: Not required 1: Required	Yes	Yes	-
Paper jam, Multifeed: Occurrences within one day	Numerical value	Yes	Yes	Yes (*5)
Paper jam, Multifeed: Cleaning required (Occurrences within one day)	0: Allowed 1: Over the threshold	Yes	Yes	Yes (*5)
Paper jam, Multifeed: Cleaning threshold (Occurrences within one day)	Numerical value	Yes	Yes	Yes (*5)

Item	Value and Format	Image scanner	Image scanner (operated with NX Manager)	Network scanner
Paper jam, Multifeed: Occurrences within throughput	Numerical value	Yes	Yes	Yes (*5)
Paper jam, Multifeed: Cleaning required (Occurrences within throughput)	0: Allowed 1: Over the threshold	Yes	Yes	Yes (*5)
Paper jam, Multifeed: Cleaning threshold (Occurrences within throughput)	Numerical value	Yes	Yes	Yes (*5)
Flatbed Version (*2) (*3)	-	-	-	Yes
System Version (*2)	-	-	-	Yes
Security Update Version (*2)	Syy-nn	-	-	Yes
Installed Options (*2)	Comma-separated	-	-	Yes
Last System Update (*2)	YYYYMMDD hh:mm:ss	-	-	Yes
Current System Update Status (*2)	0: NotTarget 1: Finished 2: Pending 3: Error 4: Unregistered	-	-	Yes
Add-in Version (*2)	-	-	-	Yes
Last Add-in Install (*2)	YYYYMMDD hh:mm:ss	-	-	Yes
Last Add-in Settings Update (*2)	YYYYMMDD hh:mm:ss	-	-	Yes
Current Add-in Install Status (*2)	0: NotTarget 1: Finished 2: Pending 3: Error 4: Unregistered	-	-	Yes
System Preferences (*2)	-	-	-	Yes
Last System Preferences Update (*2)	YYYYMMDD hh:mm:ss	-	-	Yes

Item	Value and Format	Image scanner	Image scanner (operated with NX Manager)	Network scanner
Current System Preferences Status (*2)	0: NotTarget 1: Finished 2: Pending 3: Error 4: Unregistered	-	-	Yes
TWAIN Driver: Version (*2)	-	Yes	-	-
TWAIN Driver: Last Update (*2)	YYYYMMDD hh:mm:ss	Yes	-	-
TWAIN Driver: Current Status (*2)	0: NotTarget 1: Finished 2: Pending 3: Error 4: Unregistered	Yes	-	-
ISIS Driver: Version (*2)	-	Yes	-	-
ISIS Driver: Last Update (*2)	YYYYMMDD hh:mm:ss	Yes	-	-
ISIS Driver: Current Status (*2)	0: NotTarget 1: Finished 2: Pending 3: Error 4: Unregistered	Yes	-	-
Software VRS: Version (*2)	-	Yes	-	-
Software VRS: Last Update (*2)	YYYYMMDD hh:mm:ss	Yes	-	-
Software VRS: Current Status (*2)	0: NotTarget 1: Finished 2: Pending 3: Error 4: Unregistered	Yes	-	-
Hardware VRS: Version (*2)	-	Yes	-	-
Hardware VRS: Last Update (*2)	YYYYMMDD hh:mm:ss	Yes	-	-

Item	Value and Format	Image scanner	Image scanner (operated with NX Manager)	Network scanner
Hardware VRS: Current Status (*2)	0: NotTarget 1: Finished 2: Pending 3: Error 4: Unregistered	Yes	-	-
Scanner Control Runtime: Version (*2)	-	Yes	-	-
Scanner Control Runtime: Last Update (*2)	YYYYMMDD hh:mm:ss	Yes	-	-
Scanner Control Runtime: Current Status (*2)	0: NotTarget 1: Finished 2: Pending 3: Error 4: Unregistered	Yes	-	-
ScandAll PRO: Version (*2)	-	Yes	-	-
ScandAll PRO: Last Update (*2)	YYYYMMDD hh:mm:ss	Yes	-	-
ScandAll PRO: Current Status (*2)	0: NotTarget 1: Finished 2: Pending 3: Error 4: Unregistered	Yes	-	-
Scan to Microsoft SharePoint: Version (*2)	-	Yes	-	-
Scan to Microsoft SharePoint: Last Update (*2)	YYYYMMDD hh:mm:ss	Yes	-	-
Scan to Microsoft SharePoint: Current Status (*2)	0: NotTarget 1: Finished 2: Pending 3: Error 4: Unregistered	Yes	-	-
Error Recovery Guide: Version (*2)	-	Yes	-	-
Error Recovery Guide: Last Update (*2)	YYYYMMDD hh:mm:ss	Yes	-	-

Item	Value and Format	Image scanner	Image scanner (operated with NX Manager)	Network scanner
Error Recovery Guide: Current Status (*2)	0: NotTarget 1: Finished 2: Pending 3: Error 4: Unregistered	Yes	-	-
Manual: Version (*2)	-	Yes	-	-
Manual: Last Update (*2)	YYYYMMDD hh:mm:ss	Yes	-	-
Manual: Current Status (*2)	0: NotTarget 1: Finished 2: Pending 3: Error 4: Unregistered	Yes	-	-
Scanner Central Admin Agent: Version (*2)	-	Yes	-	-
Scanner Central Admin Agent: Last Update (*2)	YYYYMMDD hh:mm:ss	Yes	-	-
Scanner Central Admin Agent: Current Status (*2)	0: NotTarget 1: Finished 2: Pending 3: Error 4: Unregistered	Yes	-	-
Scanner Firmware: Version (*2)	-	Yes	Yes	Yes
Scanner Firmware: Last Update (*2)	YYYYMMDD hh:mm:ss	Yes	Yes	-
Scanner Firmware: Current Status (*2)	0: NotTarget 1: Finished 2: Pending 3: Error 4: Unregistered	Yes	Yes	-
Firmware (Imprinter): Version (*2)	-	Yes	-	-
Firmware (Imprinter): Last Update (*2)	YYYYMMDD hh:mm:ss	Yes	-	-

Item	Value and Format	Image scanner	Image scanner (operated with NX Manager)	Network scanner
Firmware (Imprinter): Current Status (*2)	0: NotTarget 1: Finished 2: Pending 3: Error 4: Unregistered	Yes	-	-
User Application: Version (*2)	-	Yes	-	-
User Application: Last Update (*2)	YYYYMMDD hh:mm:ss	Yes	-	-
User Application: Current Status (*2)	0: NotTarget 1: Finished 2: Pending 3: Error 4: Unregistered	Yes	-	-
Software Operation Panel Settings: Version (*2)	-	Yes	-	-
Software Operation Panel Settings: Last Update (*2)	YYYYMMDD hh:mm:ss	Yes	-	-
Software Operation Panel Settings: Current Status (*2)	0: NotTarget 1: Finished 2: Pending 3: Error 4: Unregistered	Yes	-	-
ScandAll PRO Settings: Version (*2)	-	Yes	-	-
ScandAll PRO Settings: Last Update (*2)	YYYYMMDD hh:mm:ss	Yes	-	-
ScandAll PRO Settings: Current Status (*2)	0: NotTarget 1: Finished 2: Pending 3: Error 4: Unregistered	Yes	-	-
Scanner Central Admin Agent Settings: Version (*2)	-	Yes	-	-
Scanner Central Admin Agent Settings: Last Update (*2)	YYYYMMDD hh:mm:ss	Yes	-	-

Item	Value and Format	Image scanner	Image scanner (operated with NX Manager)	Network scanner
Scanner Central Admin Agent Settings: Current Status (*2)	0: NotTarget 1: Finished 2: Pending 3: Error 4: Unregistered	Yes	-	-
PaperStream IP (TWAIN): Version (*2)	-	Yes	-	-
PaperStream IP (TWAIN): Last Update (*2)	YYYYMMDD hh:mm:ss	Yes	-	-
PaperStream IP (TWAIN): Current Status (*2)	0: NotTarget 1: Finished 2: Pending 3: Error 4: Unregistered	Yes	-	-
PaperStream IP (ISIS): Version (*2)	-	Yes	-	-
PaperStream IP (ISIS): Last Update (*2)	YYYYMMDD hh:mm:ss	Yes	-	-
PaperStream IP (ISIS): Current Status (*2)	0: NotTarget 1: Finished 2: Pending 3: Error 4: Unregistered	Yes	-	-
ScanSnap Manager for fi Series: Version (*2)	-	Yes	-	-
ScanSnap Manager for fi Series: Last Update (*2)	YYYYMMDD hh:mm:ss	Yes	-	-
ScanSnap Manager for fi Series: Current Status (*2)	0: NotTarget 1: Finished 2: Pending 3: Error 4: Unregistered	Yes	-	-
PaperStream Capture: Version (*2)	-	Yes	-	-
PaperStream Capture: Last Update (*2)	YYYYMMDD hh:mm:ss	Yes	-	-

Item	Value and Format	Image scanner	Image scanner (operated with NX Manager)	Network scanner
PaperStream Capture: Current Status (*2)	0: NotTarget 1: Finished 2: Pending 3: Error 4: Unregistered	Yes	-	-
2D Barcode for PaperStream: Version (*2)	-	Yes	-	-
2D Barcode for PaperStream: Last Update (*2)	YYYYMMDD hh:mm:ss	Yes	-	-
2D Barcode for PaperStream: Current Status (*2)	0: NotTarget 1: Finished 2: Pending 3: Error 4: Unregistered	Yes	-	-
PaperStream IP (TWAIN) Settings: Version (*2)	-	Yes	-	-
PaperStream IP (TWAIN) Settings: Last Update (*2)	YYYYMMDD hh:mm:ss	Yes	-	-
PaperStream IP (TWAIN) Settings: Current Status (*2)	0: NotTarget 1: Finished 2: Pending 3: Error 4: Unregistered	Yes	-	-
PaperStream IP (ISIS) Settings: Version (*2)	-	Yes	-	-
PaperStream IP (ISIS) Settings: Last Update (*2)	YYYYMMDD hh:mm:ss	Yes	-	-
PaperStream IP (ISIS) Settings: Current Status (*2)	0: NotTarget 1: Finished 2: Pending 3: Error 4: Unregistered	Yes	-	-
PaperStream Capture Settings: Version (*2)	-	Yes	-	-
PaperStream Capture Settings: Last Update (*2)	YYYYMMDD hh:mm:ss	Yes	-	-

Item	Value and Format	Image scanner	Image scanner (operated with NX Manager)	Network scanner
PaperStream Capture Settings: Current Status (*2)	0: NotTarget 1: Finished 2: Pending 3: Error 4: Unregistered	Yes	-	-
Scanner Settings Version (*2)	-	-	Yes	-
Last Scanner Settings Update (*2)	YYYYMMDD hh:mm:ss	-	Yes	-
Current Scanner Settings Status (*2)	0: NotTarget 1: Finished 2: Pending 3: Error 4: Unregistered	-	Yes	-

Yes: Available

- : Not available

*1: Up to ten items that were added as [Optional Items] in [Edit Optional Items] of the [Scanner Central Admin Server Settings (Common Settings)] window are output.

*2: Output if the [Include detailed scanner information] check box is selected.

*3: Output if the Flatbed option is enabled for the network scanner.

*4: The information may not be available with some models.

*5: The information is available for N7100.

■Scanner Configuration File Format (for Importing)

This section describes the scanner configuration file format requirements for importing.

- The character set of the file follows the value specified on the Scanner Central Admin Console, [Scanner Central Admin Server Settings (Common Settings)] window. The default value is UNICODE (UTF-8).
- To add optional items, add item names that are not identical with other item names after "True Model Type" in the first title line. Up to ten optional items can be added.
- The file is in CSV format. The values for each item are as follows.

Item	Value and Format	Remarks
Admin ID	10 or 26 characters long	Optional
MAC Address	XX:XX:XX:XX:XX (X is an alphanumeric character)	
IP Address	xxx.xxx.xxx.xxx (xxx is a value from 0 to 255)	
Subnet Mask	xxx.xxx.xxx.xxx (xxx is a value from 0 to 255)	
Name	Up to 15 alphanumeric characters long (hyphens may also be used)	Required
Port Number	Numerical value from 1 to 65535	Optional
Use HTTPS?	0: Do not use HTTPS (default) 1: Use HTTPS	
Model	Up to 64 characters long	Optional
Add-in Group	Up to 32 characters long (*1)	
Update Group	Up to 32 characters long (*1)	
Settings Group	Up to 32 characters long (*1)	
Comment	Up to 256 characters long	
Scanner Type	0: Network scanner 1: Image scanner	Required
True Model Type	Up to 15 alphanumeric characters long (hyphens may also be used)	Optional
Optional Items	● Item names are up to 45 characters long. ● Values for item names are 256 characters long.	

*1: The following character strings cannot be used:

(Default) (All) __default__ __all__

"__" is two underbars entered one after another.

Event Log File Format

This section describes the event log file format requirements for exporting.

- The default value for the file name is "execlog.csv".
- The character set of the file follows the value specified on the Scanner Central Admin Console, [Scanner Central Admin Server Settings (Common Settings)] window. The default value is UNICODE (UTF-8).
- The file is in CSV format.

  The values for each item are as follows.

Item	Value and Format
Date/Time	YYYYMMDD hh:mm:ss
Origin	-
IP_address	xxx.xxx.xxx.xxx (xxx is a value from 0 to 255)
Model	-
Serial_number	-
Type	I : Info W : Warning E : Error
Event_ID	-
"Message"	-

Statistical Information File Format

This section describes the statistical information file format requirements for exporting.

- The default value for the file name is "statistics.csv".
- The character set of the file follows the value specified on the Scanner Central Admin Console, [Scanner Central Admin Server Settings (Common Settings)] window. The default value is UNICODE (UTF-8).
- On line one of the file, the time period is output.
  On line two of the file, the title line is output.
  On line three of the file, the statistical information is output.
  The following is an output example.

```
Line 1: # Period YYYYMMDD - YYYYMMDD
Line 2: Device Name, Model, Serial Number, Group Name,
        Total (Sheets), ADF (Sheets), Flatbed (Sheets), Comment,
        Status
Line 3: xxx,fi-xxxxx,xxx,xxxxxx(xx),305,300,5,xxx, Unknown
  :       :
```

- The file is in CSV format.

  These items are defined as follows:

Item	Value and Format
Device Name	-
Model	-
Serial Number	-
Group Name	-
Total (Sheets)	Numerical value
ADF (Sheets)	Numerical value
Flatbed (Sheets)	Numerical value

Item	Value and Format
Comment	Arbitrary character string
Status	Administered Not Administered Unknown

A.3 How to Move to a Different Scanner Central Admin Server

1 Disconnect the computers installed with the Scanner Central Admin Servers that you wish to move between from the network.

2 Backup the Scanner Central Admin Sever settings in the computer installed with the Scanner Central Admin Server that you wish to move from.
For details on how to backup the Scanner Central Admin Server settings, refer to "Backing Up Scanner Central Admin Server Settings" (page 139).

3 Restore the Scanner Central Admin Server settings in the computer installed with the Scanner Central Admin Server that you wish to move to.
For details on how to restore Scanner Central Admin Server settings, refer to "Restoring Scanner Central Admin Server Settings" (page 140).

4 Connect the computers installed with the Scanner Central Admin Servers that you wish to move between to the network.

5 Export the Scanner Central Admin Agent settings from the computer installed with Scanner Central Admin Agent that is connected to the new Scanner Central Admin Server.
For details on how to export Scanner Central Admin Agent settings, refer to "Creating an Update Module of Scanner Settings" (page 65).

6 Check that there is no problem installing the update module of Scanner Central Admin Agent settings exported in Step 5, by using a computer installed with Scanner Central Admin Agent and the previous Scanner Central Admin Server.
Register the Scanner Central Admin Agent settings exported in Step 5 in the previous Scanner Central Admin Server, and check that there is no problem installing the update module of Scanner Central Admin Agent settings in a computer installed with Scanner Central Admin Agent.

7 Register the Scanner Central Admin Agent settings exported in Step 5 in the previous Scanner Central Admin Server.

8 Install the update module of Scanner Central Admin Agent settings in all computers installed with Scanner Central Admin Agent.

ATTENTION
When moving between Scanner Central Admin Servers, do not perform other updates at the same time as the Scanner Central Admin Agent settings update.

9 If network scanners are connected, perform scanner auto discovery and register all the network scanners.
For details on scanner discovery/auto scanner registration, refer to "Network Scanner Auto Discovery/Network Scanner Registration" (page 108).

A.4 Backup and Restoration

Backing Up/Restoring Data Between Different Versions of the Scanner Central Admin Server Software

The following table shows the compatibility between different versions of the Scanner Central Admin Server software for backing up or restoring data.
The version of the Scanner Central Admin Server software can be checked on the Scanner Central Admin Console login window.
The version of Central Admin Server is shown as "e.g. Ver. 04.02.02" on the Scanner Central Admin Console login window. In the following table, the version is represented without using 0, such as "e.g. 4.2.x".

Scanner Central Admin Server Software Version for Data Backup	Scanner Central Admin Server Software Version for Data Restoration	Compatibility
5.0.x	5.0.x or later	Yes
	4.8.x or earlier	-
4.8.x	4.8.x or later	Yes
	4.7.x or earlier	-
4.7.x	4.7.x or later	Yes
	4.6.x or earlier	-
4.6.x	4.6.x or later	Yes
	4.5.x or earlier	-
4.5.x	4.5.x or later	Yes
	4.4.x or earlier	-
4.4.x	4.4.x or later	Yes
	4.3.x or earlier	-
4.3.x	4.3.x or later	Yes
	4.2.x or earlier	-
4.2.x	4.2.x or later	Yes
	4.1.x or earlier	-
4.1.x	4.1.x or later	Yes
	4.0.x or earlier	-
4.0.x	4.1.x or later	Yes (*1)
	4.0.x	Yes
	3.0.x or earlier	-
3.0.x	4.0.x or later	Yes (*1)
	3.0.x	Yes
	2.x.x or earlier	-
2.x.x or earlier	3.0.x or later	Yes (*1) (*2)
	2.x.x or earlier	Yes

Yes: Data backup and restoration is possible.

- : Data backup and restoration is not possible.

*1: To back up data, use the "AmBackup.exe" command from the Scanner Central Admin Server of the version to be restored.

*2: If the event log of the previous version is shown on the [Event Details] window of the new version, the IP address information is not shown.

Event Source Name Output by Scanner Central Admin Server

The event source name of the event log output by the Scanner Central Admin Server is as follows.

Scanner Central Admin Server Version	Event Source Name
3.0.x or later	Scanner Central Admin Server
Earlier than 2.x.x	iScanner Central Admin

A.5 Functional Comparison among Scanner Types

This section describes the functional differences among scanner types.

Function		Scanner Type			Remarks
Category	Details	Network Scanner	Image Scanner	Image Scanner (Operated with NX Manager)	
Scanner updates	Software updates	Yes	Yes	Yes	- For image scanners Firmware/driver/application updates can be distributed - For network scanners System updates/add-in installation updates can be distributed - For image scanners (operated with NX Manager) Firmware updates can be distributed
	Settings	Yes	Yes	Yes	- For image scanners Scanner settings/application settings/Scanner Central Admin settings updates can be distributed - For network scanners System preferences/job mode settings updates can be distributed - For image scanners (operated with NX Manager) Scanner settings updates can be distributed
	Software update time-period restrictions	Yes	Yes	Yes	None
	Update calls	Yes	-	-	- For image scanners According to the Scanner Central Admin Agent settings, updates can be checked for regularly

Function		Scanner Type			Remarks
Category	**Details**	**Network Scanner**	**Image Scanner**	**Image Scanner (Operated with NX Manager)**	
Scanner monitoring	Monitoring for problems in scanners	Yes	Yes	Yes	None
	Monitoring of the scanner operating status	Yes	Yes	Yes	
	Consumable parts monitoring	Yes	Yes	Yes	
	Error notification e-mail settings	Yes	Yes	Yes	
	Maintenance information	Yes (*2)	Yes (*1)	Yes	
Scanner management	Add/edit/delete scanner configuration	Yes	Yes	Yes	
	Export/import in CSV format	Yes	Yes	Yes	
	Remote operation of scanners with Admin Tool	Yes	-	-	
	Network Scanner Discovery/Registration	Yes	No	No	

Function		Scanner Type			Remarks
Category	**Details**	**Network Scanner**	**Image Scanner**	**Image Scanner (Operated with NX Manager)**	
Statistical information	Statistics list	Yes	Yes	Yes	None
Event log	[Event Log] window	Yes	Yes	Yes	
Audit log collection	System log/user log collection	Yes	No	No	
User roaming data	User information is shared between scanners	Yes	-	-	

Yes : Supported

No : Not supported

- : Not applicable

*1 : The information may not be available with some models.

*2 : Only supported by N7100.

A.6 Updating the Scanner Central Admin

How to Update the Scanner Central Admin

1 Disconnect the computer on which the Scanner Central Admin Server is installed from the network.

2 Back up the Scanner Central Admin Server settings.
For details about how to back up the Scanner Central Admin Server settings, refer to "Backing Up Scanner Central Admin Server Settings" (page 139).

HINT
The backed-up Scanner Central Admin Server settings will be used only if a problem occurs during the updating process.
If a problem occurs during the updating process, restore the Scanner Central Admin Server settings. For details about how to restore the Scanner Central Admin Server settings, refer to "Restoring Scanner Central Admin Server Settings" (page 140).

3 Update the Scanner Central Admin Server.

4 Connect the computer on which the Scanner Central Admin Server is installed to the network.

5 Uninstall the Scanner Central Admin Console.
For details about how to uninstall the Scanner Central Admin Console, refer to "A.7Uninstalling the Application" (page 178).

6 Install the latest Scanner Central Admin Console.
For details about how to install the Scanner Central Admin Console, refer to "2.3Installing the Scanner Central Admin Console" (page 35).

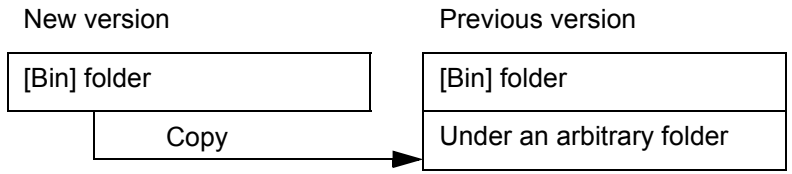
How to Migrate Data to an Updated Version of the Scanner Central Admin Server Software

When updating the Scanner Central Admin Server software version in order to use a different server as the Scanner Central Admin Server, data from the previous version of the Scanner Central Admin Server software must be transferred to the new version.
The data can be migrated by executing the "AmBackup.exe" and "AmRestore.exe" commands in the computer in which the Scanner Central Admin Server software is installed.

HINT
- If updating the version of the current Scanner Central Admin Server software, you do not need to migrate data.
- Make sure to export audit logs in advance, as they are not migrated by this operation.

1 If .NET Framework 4 or later is not installed in the computer where the old version of the Scanner Central Admin Server software is installed, download it from the Microsoft Web site and install it in the computer.

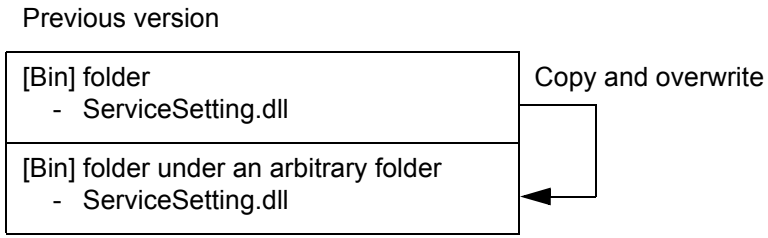
2 Copy the following [Bin] folder in the new version of the Scanner Central Admin Server software under an arbitrary folder of the previous version. Do not copy and overwrite the [Bin] folder of the previous version.



- [Bin] folder storage location

  Under the [AmManager] folder in the installation folder of the new Scanner Central Admin Server software

3 In the previous version of the Scanner Central Admin Server software, copy and overwrite the "ServiceSetting.dll" file in the [Bin] folder to the [Bin] folder that was copied under an arbitrary folder.



- "ServiceSetting.dll" file storage location

  Under the [\AmManager\Bin] folder in the installation folder of the previous Scanner Central Admin Server software

4 Execute "AmBackup.exe" in the [Bin] folder that was copied under an arbitrary folder of the previous version of the Scanner Central Admin Server.

⇨ The data of the previous version of the Scanner Central Admin Server is backed up.

- "AmBackup.exe" file storage location

  Under the [Bin] folder in an arbitrary folder of the previous Scanner Central Admin Server software

For details about "AmBackup.exe", refer to "Backing Up Scanner Central Admin Server Settings" (page 139).

ATTENTION

If you back up data by executing "AmBackup.exe" in the [Bin] folder from the installation folder of the previous version, you cannot restore the data in the new version of the Scanner Central Admin Server.
Make sure to back up data by running "AmBackup.exe" that was copied from the new version.

5 Execute "AmRestore.exe" in the new version of the Scanner Central Admin Server.

⇨ The data backed up in Step 4 is restored in the new version of the Scanner Central Admin Server.

- "AmRestore.exe" file storage location

  Under the [\AmManager\Bin] folder in the installation folder of the new Scanner Central Admin Server software

For details about "AmRestore.exe", refer to "Restoring Scanner Central Admin Server Settings" (page 140).

A.7 Uninstalling the Application

Precautions when Uninstalling Scanner Central Admin Server

- Before starting uninstallation, disconnect the Scanner Central Admin Server from the network.
  If the uninstallation process is completed while the Scanner Central Admin Server is connected to the network, normal operation cannot be guaranteed.
- All files in the installation folder are deleted when the Scanner Central Admin Server software is uninstalled. Back up the information related to Scanner Central Admin Server as required. For details, refer to "Backing Up Scanner Central Admin Server Settings" (page 139).
- If the following message appears while uninstalling the Scanner Central Admin Server software, press the [Retry] button.

  Another application has exclusive access to the file ASPNETDB.MDF. Please shut down all other applications, then click Retry.

  Even if the same message appears again, re-start the Scanner Central Admin Server, and uninstall it again.

Precautions when Uninstalling Scanner Central Admin Console

Before starting uninstallation, close the Scanner Central Admin Console.
If the uninstallation process is completed while the Scanner Central Admin Console is in operation, normal operation cannot be guaranteed.

How to Uninstall the Application

1 Start the computer.

ATTENTION
Log on to the computer as a user with Administrator privileges.

2 Exit any applications that are running.

3 Select the [Start] menu→ [Control Panel]→[Uninstall a Program].
⇨ The [Uninstall or change a program] window appears, showing a list of software installed.

4 Select the software to be deleted.
- To delete the Scanner Central Admin Server:
  Select [Scanner Central Admin Server].
- To delete the Scanner Central Admin Console:
  Select [Scanner Central Admin Console].
- To delete the Scanner Central Admin Agent:
  Select [Scanner Central Admin Agent].

5 Press the [Uninstall] button or the [Uninstall/Change] button.

6 If you are prompted for confirmation, click either the [OK] button or the [Yes] button.
⇨ The software is uninstalled.

HINT
Depending on your user account control settings, you may receive the "An unidentified program wants access to your computer." message. In this case, select [Allow] to continue with the uninstallation.

ATTENTION
- If you uninstall the following application components before uninstalling the Scanner Central Admin Server, they may be reinstalled:
  - Microsoft SQL Server Native Client
  - Microsoft SQL Server Setup Support Files

  In this case, uninstall the application components described above.
- When the Scanner Central Admin Server links with Microsoft Office SharePoint Server, installed Scan to Microsoft SharePoint is not uninstalled.

A.8 Creating and Installing an Update Module from a User Application

Image Scanner | Image Scanner (with NX Manager)

This section provides an example for "Creating an Update Module from a User Application" (page 64) that explains how to create and install an update module for copying a file into a specified folder.

1 Create a batch file "sample.bat" for copying the file "sample.ini" into the specified folder, and then place both files in "C\:sample".

The following is an example of the batch file "sample.bat":

```
set dstPath=C:\work (*1)
if not exist %dstPath% mkdir %dstPath%
if errorlevel 1 goto error
copy /y sample.ini %dstPath% (*2)
if errorlevel 1 goto error
exit 0 (*3)
:error
exit 1 (*4)
```

*1: A specified folder on the computer connected to the scanner

*2: Copies the file

*3: Return value (0: succeeded)

*4: Return value (other than 0: failed)

2 Create the update module in SCAModuleCreator.

Follow the procedure in "Creating an Update Module from a User Application" (page 64), and configure the following settings on the [Create a user application] window to create the update module.

Setting	Value	Explanation
Source Folder	C:\sample	Specify the folder where the files (the file "sample.ini", and the batch file "sample.bat" for copying the file into the specified folder) are saved.
Save to	User-defined	Specify the save folder of the update module.
Version/ Name	CopySamlpe_V01L01	Enter a name for recognizing the update module.
Launch Path	sample.bat	Specify the batch file from step 1 for copying the file to the specified folder.

3 Upload the update module in Scanner Central Admin Console.

For details on uploading update modules, refer to "Uploading an Update Module" (page 66)".

4 Install the update module.

For details on installing update modules, refer to "Installing an Update Module (Image Scanner)" (page 68) or "Installing an Update Module (Image Scanner (Operated with NX Manager))" (page 69).

A.9 Application Configuration of Scanner Central Admin

Application configuration and version of Scanner Central Admin 5.0 are as follows:

- Scanner Central Admin Server 5.0
- Scanner Central Admin Console 5.0
- Scanner Central Admin Agent 5.0

A.10 Connectibility of the Scanner Central Admin Server

Depending on the version of the Scanner Central Admin Server, supported scanners vary as below.

Scanner Central Admin Server Version	Image Scanner	Image Scanner (Operated with NX Manager)	Network Scanner		
			fi-6010N	N1800	N7100
iScanner Central Admin Server 2.0	-	-	Yes	-	-
Scanner Central Admin Server 3.0	-	-	Yes	Yes	-
Scanner Central Admin Server 4.0 to 4.5	Yes	-	Yes	Yes	-
Scanner Central Admin Server 4.6 to 4.8	Yes	-	Yes	Yes	Yes (*1)
Scanner Central Admin Server 5.0 or later	Yes	Yes	Yes	Yes	Yes (*1)

Yes: Supported

- : Not supported

*1 : Depending on the environment, some functions are not available.
For details, refer to "Required software for linkage with N7100" (page 24).

A.11 Message Code Notifications via SNMP Traps

The following message code notifications via SNMP traps are shown below.

Code	Message	Message Content	Action
0F090000	This is a test message from Scanner Central Admin Agent.	This is a test sent message.	No action required.
0F070004	Consumable part counter was cleared. Consumable part:XXXXX Counter before clearing value:XXXXX	The counter for a consumable part is cleared.	No action required.
0F080001	Scanner was changed.	The scanner was changed.	No action required.
0F080002	The scanner maintenance part needs to be cleaned.Maintenance Part:XXXXX	It is time to clean the maintenance part of the scanner.	Clean the maintenance part. The name of the maintenance part to be cleaned is shown in XXXXX. For details about the cleaning procedure, refer to the Operator's Guide for the scanner that you use. If the message remains after cleaning the scanner, contact your FUJITSU scanner dealer or an authorized FUJITSU scanner service provider.
1F060001	Temporary scanner error was detected. [Error Details]	A temporary scanner error is detected.	Try one of the following: ● Refer to [Error Details] of the message to proceed. ● Click the [Error Details] button in the [Event Details] window for the Scanner Central Admin Console to refer to the scanner Error Recovery Guide.
6F070001	Scanner consumable needs to be replaced now. Consumable part:XXXXX	It is time to replace a consumable part of the scanner.	Replace the consumable. The name of the consumable to be replaced is shown in XXXXX.
6F070002	Scanner consumable needs to be replaced soon. Consumable part:XXXXX	A consumable part of the scanner needs to be replaced soon.	Replace the consumable. The name of the consumable to be replaced is shown in XXXXX.

Code	Message	Message Content	Action
6F070003	Scanner consumable has passed its rated lifetime and needs to be replaced. Consumable part:XXXXX	A consumable part of the scanner has passed its expected lifetime.	Replace the consumable. The name of the consumable to be replaced is shown in XXXXX.
7F060001	Scanner error was detected. [Error Details]	A scanner error is detected.	Try one of the following: ● Refer to [Error Details] of the message to proceed. ● Click the [Error Details] button in the [Event Details] window for the Scanner Central Admin Console to refer to the scanner Error Recovery Guide. If the error remains, contact your FUJITSU scanner dealer or an authorized FUJITSU scanner service provider.
8F060001	Scanner parts replacement notification was detected. [Error Details]	An error related to the replacement of a scanner part is detected.	Try one of the following: ● Refer to [Error Details] of the message to proceed. ● Click the [Error Details] button in the [Event Details] window for the Scanner Central Admin Console to refer to the scanner Error Recovery Guide. If the error remains, contact your FUJITSU scanner dealer or an authorized FUJITSU scanner service provider.

Glossary

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ADF (Automatic Document Feeder)

B

Brake roller

D

Default setting
Driver

E

Emulation

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Flatbed

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Imprinter
Integrated management system
ISIS

O

Operator panel

P

Pad assy
Pick roller

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Separator roller
SMTP (Simple Mail Transfer Protocol)
SNMP (Simple Network Management Protocol)
SNMP manager
SNMP trap

T

TWAIN

A

ADF (Automatic Document Feeder)
A paper feeding mechanism which allows multiple sheets of documents to be scanned one sheet at a time.

B

Brake roller
A roller that prevents multiple sheets of documents from being fed simultaneously into the ADF.

D

Default setting
(Hardware)
Preset values from the factory.

(Software)
Values set upon the installation of software.

Driver
A program specifically designed for operating systems, which enables interaction with a hardware device.

E

Emulation
A process of changing the firmware settings to imitate the scanner of a different model.

F

Flatbed
A Flatbed input scanner.
Documents are placed on the scanner (glass part) one at a time and scanned.
It can be used to scan documents that cannot be scanned with an ADF, such as books and brochures.

I

Imprinter
A printer that prints alphanumerical characters on the front or the back of the document. It can be used to manage scanned images by adding names, date or sequence number.

Integrated management system
A system that comprehensively manages the various corporate system operations.

ISIS
ISIS (Image Scanner Interface Specification) is an API (Application Program Interface) standard for imaging devices (e.g. scanners, digital cameras) which was developed by Captiva, a division of EMC Corporation (the former Pixel Translations) in 1990. In order to use devices that comply with this standard, it is necessary to install a driver software that supports ISIS standard.

O

Operator panel
A panel that consists of a display and buttons. It is used for scanner operations such as selecting functions and changing settings.

P

Pad assy
A part that separates the documents before they enter inside the ADF. Rubber material is used for where the document contacts the pick roller.

Pick roller
A roller which separates one sheet off the documents loaded in the ADF paper chute, and feeds the document into the ADF.

S

Separator roller
A roller that separates one sheet from the batch of documents on the hopper and pulls the sheet into the ADF.

SMTP (Simple Mail Transfer Protocol)
A protocol used to send e-mail messages.

SNMP (Simple Network Management Protocol)
A protocol used to monitor and manage networks.

SNMP manager
An application that provides a user-friendly representation of SNMP traps sent from the terminal.

SNMP trap
A report used to send status notification from the terminal to the SNMP manager.

T

TWAIN
TWAIN (Technology Without Any Interesting Name) is an API (Application Program Interface) standard for imaging devices (e.g. scanners, digital cameras) developed by TWAIN Working Group. In order to use devices that comply with this standard, it is necessary to install a driver software that supports TWAIN standard.

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Scanner Central Admin 5.0 User's Guide

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