

Scanner Central Admin Server

SNMP Agent Reference Guide 1.0

Introduction

This manual accompanies the Scanner Central Admin User's Guide.

It provides instructions for using the SNMP agent with the Scanner Central Admin Server.

The following abbreviations are used in this manual.

Name	Abbreviations Used in This Manual
Scanner Central Admin Server	SCA Server
Scanner Central Admin Agent	SCA Agent
Scanner Central Admin Console	SCA Console
Integrated management system	SNMP manager

Notes

- The SCA Agent is not required to use SNMP (you do not need to configure the settings described in "5.3 Pre-settings for the Scanner Central Admin Agent" in the Scanner Central Admin User's Guide).
- This manual mainly describes the settings for the SNMP agent. For details about the settings for the SNMP manager, refer to the Scanner Central Admin User's Guide and the manual for your SNMP manager.

ATTENTION

In the tables in this manual, the last digit (in red) of each OID described in "Corresponding OID in the MIB" indicates the registration number (up to 1000) of the scanner registered with the SCA Server.

Trademarks

Company names and product names in this document are the trademarks or registered trademarks of the respective companies.

Manufacturer

PFU Limited

YOKOHAMA i-MARK PLACE, 4-5 Minatomirai 4-chome, Nishi-ku, Yokohama-shi, Kanagawa 220-8567
Japan.

Issue Date/Issuer

Issue date: August 2023

Issued by: PFU Limited

© PFU Limited 2023

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 (simply called "high-safety applications" from here on) that directly involve danger to life and health when a high degree of safety is required, for example, 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 with adopting 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.

Screen Examples in This Manual

Microsoft product screenshots are reprinted with permission from Microsoft Corporation.

The screen examples in this manual are subject to change without notice in the interest of product development.

If the actual displayed screen differs from the screen examples in this manual, operate by following the actual displayed screen while referring to the user's manual of the scanner application that you are using. The actual screen and operations may differ depending on the operating system.

Notice

- The contents of this manual are subject to change without notice.
- PFU Limited assumes no liability for incidental or consequential damages arising from the use of this product, and any claims by a third party.
- Copying of the contents of this manual, in whole or in part, as well as the scanner applications is prohibited under the copyright law.

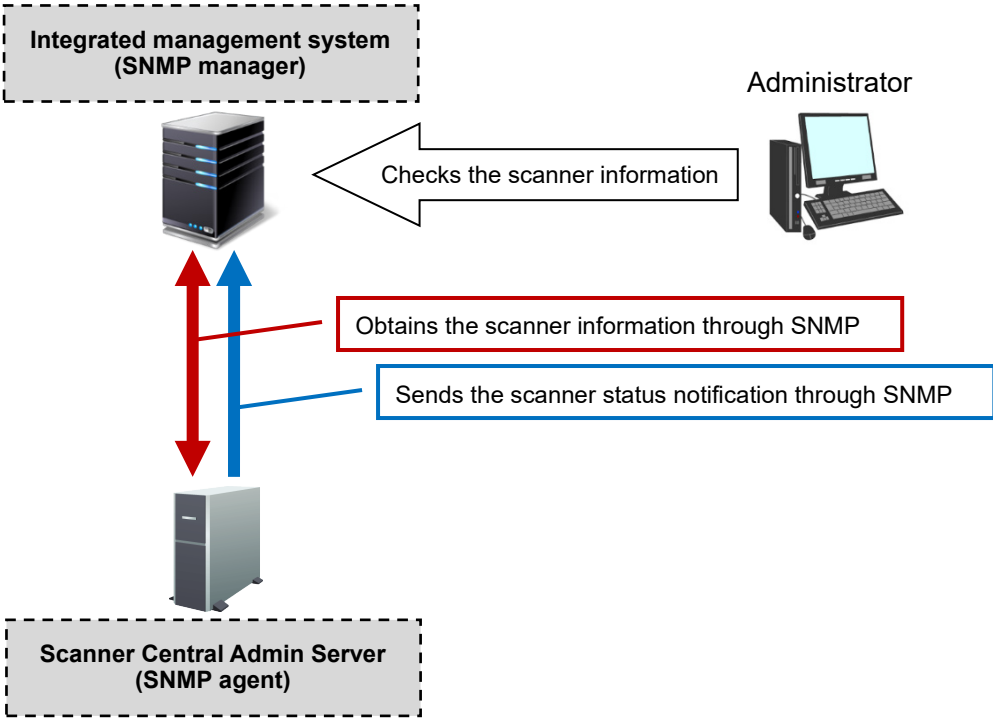
Contents

- 1. Overview 5
- 2. Functions 6
 - 2.1 List of Functions 6
 - 2.2 GET REQUEST 6
 - 2.3 GET NEXT REQUEST 6
 - 2.4 SET REQUEST 6
 - 2.5 GET RESPONSE 6
 - 2.6 TRAP 7
 - 2.7 GET BULK REQUEST 7
 - 2.8 INFORM REQUEST 7
- 3. Pre-settings (Scanner Central Admin Server) 8
- 4. OID/MIB 10
 - 4.1 Standard MIB 10
 - 4.2 Expanded MIB 11
 - 4.3 Information in the Notifications Sent with TRAP/INFORM 14
 - 4.4 Order of the OIDs 14
- 5. Error Messages 16
 - 5.1 GET REQUEST 16
 - 5.2 GET NEXT REQUEST 16
 - 5.3 SET REQUES 16
 - 5.4 GET BULK REQUEST 17
 - 5.5 INFORM REQUEST 17

1. Overview

The SNMP agent function of the Scanner Central Admin Server enables the SNMP manager to manage scanner information through SNMP.

The operation of the Scanner Central Admin Server linked with the SNMP manager is shown below.



Network Conditions

In order for the SNMP manager to be able to obtain the scanner information, the server terminal where the Scanner Central Admin Server is installed must be configured to communicate on the following port number.

- Port Number: 161
- Protocol: UDP

2. Functions

2.1 List of Functions

The SNMP functions for the Scanner Central Admin Server supports the following messages.

Protocol Version		v1	v2c	v3
Message types Yes: Supported No: Not supported	GET REQUEST	Yes	Yes	No (*1)
	GET NEXT REQUEST	Yes	Yes	No (*1)
	SET REQUEST	Yes	Yes	No (*1)
	GET RESPONSE	Yes	Yes	No (*1)
	TRAP	Yes	Yes	No (*1)
	GET BULK REQUEST	-	Yes	No (*1)
	INFORM REQUEST	-	Yes	No (*1)

*1: It will be supported around January 2024.

2.2 GET REQUEST

This causes the SCA Server (SNMP agent) to send the information about the OID specified on the SNMP manager to the SNMP manager. More than one OID can be specified. For details about OIDs, refer to "[4. OID/MIB](#)".

2.3 GET NEXT REQUEST

This causes the SCA Server (SNMP agent) to send the information about the next OID following the OID just specified on the SNMP manager to the SNMP manager.

More than one OID can be specified. For the order of the OIDs, refer to "[4.4 Order of the OIDs](#)".

2.4 SET REQUEST

This enables the SNMP manager to reset the number of paper jam/multifeed occurrences.

The following settings can be reset.

Paper jam, Multifeed: Occurrences within one day/Occurrences within throughput

Key Name	Key Description	Access Permission	Corresponding OID in the MIB
pfuScasCleaningEventPeriodCount	Paper jam, Multifeed: Occurrences within one day		1.3.6.1.4.1.18886.1.3.N.1.16.1(#1) 1.3.6.1.4.1.18886.1.3.N.1.16.2(#2)

	STRING	Read/Write	1.3.6.1.4.1.18886.1.3.N.1.16.1000(#1,000)
pfuScasCleaningEventThroughputCount	Paper jam, Multifeed: Occurrences within throughput		1.3.6.1.4.1.18886.1.3.N.1.18.1(#1) 1.3.6.1.4.1.18886.1.3.N.1.18.2(#2)

	STRING	Read/Write	1.3.6.1.4.1.18886.1.3.N.1.18.1000(#1,000)

2.5 GET RESPONSE

This causes the SCA Server (SNMP agent) to send information in the GET RESPONSE format to the SNMP manager when a request to send the information is made on the SNMP manager.

2.6 TRAP

This causes the SCA Server (SNMP agent) to send an information notification to the SNMP manager. For details about information in the notifications, refer to "[4.3 Information in the Notifications Sent with TRAP/INFORM](#)".

The SCA Server (SNMP agent) sends an information notification to the SNMP manager in the following case:

- When an error/warning/information is sent from the scanner registered with the SCA Server

2.7 GET BULK REQUEST

This causes the SCA Server (SNMP agent) to send the information about the next multiple OIDs (up to 10 OIDs) following the OID just specified on the SNMP manager. More than one OID can be specified. For the order of the OIDs, refer to "[4.4 Order of the OIDs](#)".

2.8 INFORM REQUEST

This causes the SCA Server (SNMP agent) to send an information notification to the SNMP manager. After the notification is sent, the SCA Server (SNMP agent) will receive the result from the SNMP manager, stating whether the notification has been sent successfully.

If an error has occurred, error information is displayed in the event logs on the SCA Console.

For details about information in the notifications, refer to "[4.3 Information in the Notifications Sent with TRAP/INFORM](#)".

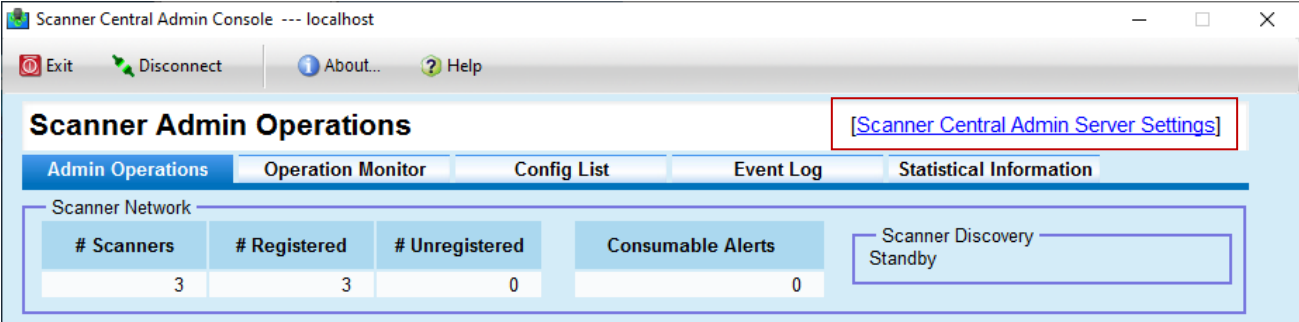
The SCA Server (SNMP agent) sends an information notification to the SNMP manager in the following case:

- When an error/warning/information is sent from the scanner registered with the SCA Server

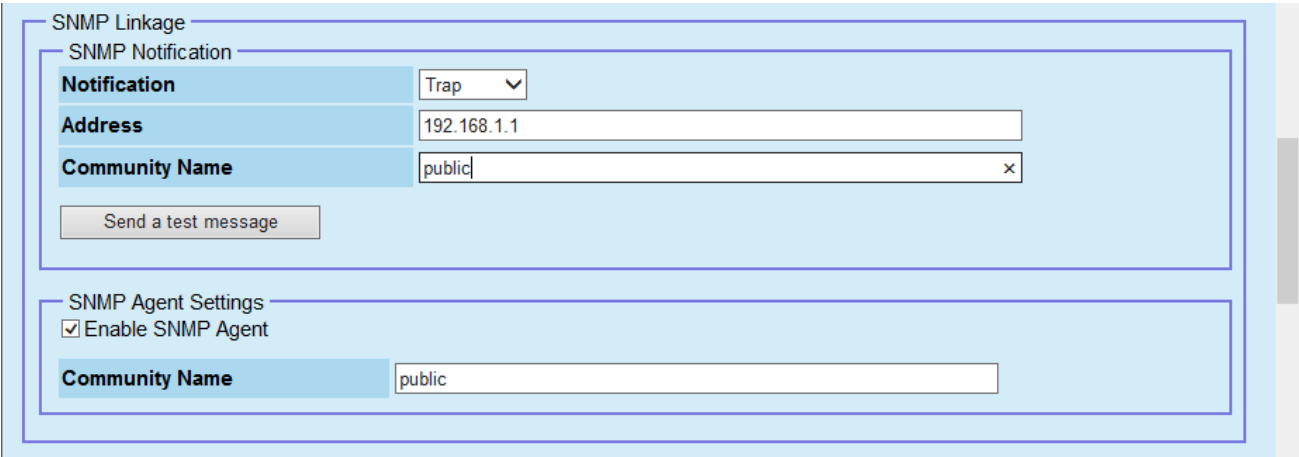
3. Pre-settings (Scanner Central Admin Server)

Configure the SNMP agent settings on the SCA Console.

1. Start up the SCA Console and connect it to the SCA Server.
2. In the SCA Console main window, click the link for [Scanner Central Admin Server Settings].



3. Configure the SNMP notification settings.



Notification	Specify how to send a notification about an SNMP event.
Address	Specify the IP address of the SNMP manager. The IP address, host name, or FQDN can be used.
Community Name	Specify the community name of the destination for the SNMP notification.
Enable SNMP Agent	The SNMP agent is enabled to accept requests from the SNMP manager (*1).
Community Name	Specify the community name of the SNMP agent.

*1: When the [Save] button is clicked in the [Scanner Central Admin Server Settings] window while the Windows SNMP service is running, the message below is displayed. To enable the SNMP agent, click the [OK] button. (When the [OK] button is clicked, the status of the Windows SNMP service will be changed to show "Service: Stopped" and "Startup: Disabled".)



The [Enable SNMP Agent] setting was changed.
Clicking the [OK] button will disable the Windows
SNMP Service. Do you want to continue?

4. OID/MIB

ATTENTION

The last digit (in red) of each OID described in "Corresponding OID in the MIB" indicates the registration number (up to 1000) of the scanner registered with the SCA Server.

4.1 Standard MIB

Key Name	Key Description	Data Type	Access Permission	Corresponding OID in the MIB
sysDescr	Description of the system <VendorName> <ModelName> <SeiralNumber> <Version>	STRING	Read Only	1.3.6.1.2.1.1.1.1.1.#1 1.3.6.1.2.1.1.1.1.2.#2 ... 1.3.6.1.2.1.1.1.1.1000(#1,000)
sysObjectID	OID in the expanded MIB for PFU 1.3.6.1.4.1.18886.1.3 (fixed)	IDENTIFIER	Read Only	1.3.6.1.2.1.1.2.1.#1 1.3.6.1.2.1.1.2.2.#2 ... 1.3.6.1.2.1.1.2.1000(#1,000)
ifPhysAddress	Description of the MAC address for the computer <MACAddress>	STRING	Read Only	1.3.6.1.2.1.2.2.1.6.1.#1 1.3.6.1.2.1.2.2.1.6.2.#2 ... 1.3.6.1.2.1.2.2.1.6.1000(#1,000)
hrDeviceIndex	Index of the scanners registered with the SCA Server (1 to 1000).	INTEGER	Read Only	1.3.6.1.2.1.25.3.2.1.1.1.#1 1.3.6.1.2.1.25.3.2.1.1.2.#2 ... 1.3.6.1.2.1.25.3.2.1.1.1000(#1,000)
hrDeviceType	Device type. The fixed value below is used. HOST-RESOURCES-MIB::hrDeviceTypes.1	IDENTIFIER	Read Only	1.3.6.1.2.1.25.3.2.1.2.1.#1 1.3.6.1.2.1.25.3.2.1.2.2.#2 ... 1.3.6.1.2.1.25.3.2.1.2.1000(#1,000)
hrDeviceDescr	Description of the scanner, including the manufacturer, version, and serial number (optional) of the scanner. <VendorName> <ModelName> <SeiralNumber> <Version>	STRING	Read Only	1.3.6.1.2.1.25.3.2.1.3.1.#1 1.3.6.1.2.1.25.3.2.1.3.2.#2 ... 1.3.6.1.2.1.25.3.2.1.3.1000(#1,000)
hrDeviceID	OID in the expanded MIB for PFU 1.3.6.1.4.1.18886.1.3 (fixed)	IDENTIFIER	Read Only	1.3.6.1.2.1.25.3.2.1.4.1.#1 1.3.6.1.2.1.25.3.2.1.4.2.#2 ... 1.3.6.1.2.1.25.3.2.1.4.1000(#1,000)
hrDeviceStatus	Power status of the scanner unknown(1): (power off) running(2): (power on)	INTEGER	Read Only	1.3.6.1.2.1.25.3.2.1.5.1.#1 1.3.6.1.2.1.25.3.2.1.5.2.#2 ... 1.3.6.1.2.1.25.3.2.1.5.1000(#1,000)
hrDeviceErrors	Error status of the scanner 0: No errors have occurred 1: Some errors have occurred	Counter32	Read Only	1.3.6.1.2.1.25.3.2.1.6.1.#1 1.3.6.1.2.1.25.3.2.1.6.2.#2 ... 1.3.6.1.2.1.25.3.2.1.6.1000(#1,000)
prtGeneralPrinterName	Model name of the scanner	STRING	Read Only	1.3.6.1.2.1.43.5.1.1.16.1.#1 1.3.6.1.2.1.43.5.1.1.16.2.#2 ... 1.3.6.1.2.1.43.5.1.1.16.1000(#1,000)
prtGeneralSerialNumber	Serial number of the scanner	STRING	Read Only	1.3.6.1.2.1.43.5.1.1.17.1.#1 1.3.6.1.2.1.43.5.1.1.17.2.#2 ... 1.3.6.1.2.1.43.5.1.1.17.1000(#1,000)
prtMarkerIndex				

Key Name		Corresponding OID in the MIB
Key Description		
Data Type	Access Permission	
Index for ADF scanning 1 (fixed)		1.3.6.1.2.1.43.10.2.1.1.1.1(#1) 1.3.6.1.2.1.43.10.2.1.1.1.2(#2) ...
INTEGER	Read Only	1.3.6.1.2.1.43.10.2.1.1.1.1000(#1,000)
Index for flatbed scanning 2 (fixed)		1.3.6.1.2.1.43.10.2.1.1.2.1(#1) 1.3.6.1.2.1.43.10.2.1.1.2.2(#2) ...
INTEGER	Read Only	1.3.6.1.2.1.43.10.2.1.1.2.1000(#1,000)
Index for Return Scan 3 (fixed)		1.3.6.1.2.1.43.10.2.1.1.3.1(#1) 1.3.6.1.2.1.43.10.2.1.1.3.2(#2) ...
INTEGER	Read Only	1.3.6.1.2.1.43.10.2.1.1.3.1000(#1,000)
prtMarkerCounterUnit		
Index for ADF scanning Specify sheets(8). 8 (fixed)		1.3.6.1.2.1.43.10.2.1.3.1.1(#1) 1.3.6.1.2.1.43.10.2.1.3.1.2(#2) ...
INTEGER	Read Only	1.3.6.1.2.1.43.10.2.1.3.1.1000(#1,000)
Index for flatbed scanning Specify sheets(8). 8 (fixed)		1.3.6.1.2.1.43.10.2.1.3.2.1(#1) 1.3.6.1.2.1.43.10.2.1.3.2.2(#2) ...
INTEGER	Read Only	1.3.6.1.2.1.43.10.2.1.3.2.1000(#1,000)
Index for Return Scan Specify sheets(8). 8 (fixed)		1.3.6.1.2.1.43.10.2.1.3.3.1(#1) 1.3.6.1.2.1.43.10.2.1.3.3.2(#2) ...
INTEGER	Read Only	1.3.6.1.2.1.43.10.2.1.3.3.1000(#1,000)
prtMarkerLifeCount		
ADF Total Throughput		1.3.6.1.2.1.43.10.2.1.4.1.1(#1) 1.3.6.1.2.1.43.10.2.1.4.1.2(#2) ...
INTEGER	Read Only	1.3.6.1.2.1.43.10.2.1.4.1.1000(#1,000)
Flatbed Total Throughput		1.3.6.1.2.1.43.10.2.1.4.2.1(#1) 1.3.6.1.2.1.43.10.2.1.4.2.2(#2) ...
INTEGER	Read Only	1.3.6.1.2.1.43.10.2.1.4.2.1000(#1,000)
Return Scan Total Throughput		1.3.6.1.2.1.43.10.2.1.4.3.1(#1) 1.3.6.1.2.1.43.10.2.1.4.3.2(#2) ...
INTEGER	Read Only	1.3.6.1.2.1.43.10.2.1.4.3.1000(#1,000)

4.2 Expanded MIB

"N" is the table number of the scanner index.

Each value of "N" corresponds to the following scanner index.

N	Index	1~ 100	101~ 200	201~ 300	301~ 400	401~ 500	501~ 600	601~ 700	701~ 800	801~ 900	901~ 1000
2		✓	-	-	-	-	-	-	-	-	-
3		-	✓	-	-	-	-	-	-	-	-
4		-	-	✓	-	-	-	-	-	-	-
5		-	-	-	✓	-	-	-	-	-	-
6		-	-	-	-	✓	-	-	-	-	-
7		-	-	-	-	-	✓	-	-	-	-
8		-	-	-	-	-	-	✓	-	-	-
9		-	-	-	-	-	-	-	✓	-	-
10		-	-	-	-	-	-	-	-	✓	-
11		-	-	-	-	-	-	-	-	-	✓

Key Name			Corresponding OID in the MIB
	Key Description		
	Data Type	Access Permission	
pfuScasScannerIndex	Index of the scanners registered with the SCA Server (1 to 1000).		1.3.6.1.4.1.18886.1.3.N.1.1.1(#1) 1.3.6.1.4.1.18886.1.3.N.1.1.2(#2) ...
	INTEGER	Read Only	1.3.6.1.4.1.18886.1.3.N.1.1.1000(#1,000)
pfuScasModelName	Model name of the scanner		1.3.6.1.4.1.18886.1.3.N.1.2.1(#1) 1.3.6.1.4.1.18886.1.3.N.1.2.2(#2) ...
	STRING	Read Only	1.3.6.1.4.1.18886.1.3.N.1.2.1000(#1,000)
pfuScasSerialNo	Serial number of the scanner		1.3.6.1.4.1.18886.1.3.N.1.3.1(#1) 1.3.6.1.4.1.18886.1.3.N.1.3.2(#2) ...
	STRING	Read Only	1.3.6.1.4.1.18886.1.3.N.1.3.1000(#1,000)
pfuScasOperatingStatus	Power status of the scanner 1: unknown (power off) 2: running (power on)		1.3.6.1.4.1.18886.1.3.N.1.4.1(#1) 1.3.6.1.4.1.18886.1.3.N.1.4.2(#2) ...
	INTEGER	Read Only	1.3.6.1.4.1.18886.1.3.N.1.4.1000(#1,000)
pfuScasErrorStatus	Error status of the scanner 0: No errors have occurred 1: Some errors have occurred		1.3.6.1.4.1.18886.1.3.N.1.5.1(#1) 1.3.6.1.4.1.18886.1.3.N.1.5.2(#2) ...
	INTEGER	Read Only	1.3.6.1.4.1.18886.1.3.N.1.5.1000(#1,000)
pfuScasAdfTotalThroughput	ADF Total Throughput (*1)		1.3.6.1.4.1.18886.1.3.N.1.6.1(#1) 1.3.6.1.4.1.18886.1.3.N.1.6.2(#2) ...
	INTEGER	Read Only	1.3.6.1.4.1.18886.1.3.N.1.6.1000(#1,000)
pfuScasFbTotalThroughput	Flatbed Total Throughput (*1)		1.3.6.1.4.1.18886.1.3.N.1.7.1(#1) 1.3.6.1.4.1.18886.1.3.N.1.7.2(#2) ...
	INTEGER	Read Only	1.3.6.1.4.1.18886.1.3.N.1.7.1000(#1,000)
pfuScasRtTotalThroughput	Return Scan Total Throughput (*1)		1.3.6.1.4.1.18886.1.3.N.1.8.1(#1) 1.3.6.1.4.1.18886.1.3.N.1.8.2(#2) ...
	INTEGER	Read Only	1.3.6.1.4.1.18886.1.3.N.1.8.1000(#1,000)
pfuScasFirmwareVersion	Firmware version of the scanner		1.3.6.1.4.1.18886.1.3.N.1.9.1(#1) 1.3.6.1.4.1.18886.1.3.N.1.9.2(#2) ...
	STRING	Read Only	1.3.6.1.4.1.18886.1.3.N.1.9.1000(#1,000)
pfuScasVendor	Vendor name ricoh (fixed)		1.3.6.1.4.1.18886.1.3.N.1.10.1(#1) 1.3.6.1.4.1.18886.1.3.N.1.10.2(#2) ...
	STRING	Read Only	1.3.6.1.4.1.18886.1.3.N.1.10.1000(#1,000)
pfuScasCleaningCycle	Total Throughput after Cleaning (Sheets) (*1) (*2)		1.3.6.1.4.1.18886.1.3.N.1.11.1(#1) 1.3.6.1.4.1.18886.1.3.N.1.11.2(#2) ...
	INTEGER	Read Only	1.3.6.1.4.1.18886.1.3.N.1.11.1000(#1,000)
pfuScasCleaningCycleThreshold	Cleaning threshold (Total Throughput after Cleaning) (*1) (*2)		1.3.6.1.4.1.18886.1.3.N.1.12.1(#1) 1.3.6.1.4.1.18886.1.3.N.1.12.2(#2) ...
	INTEGER	Read Only	1.3.6.1.4.1.18886.1.3.N.1.12.1000(#1,000)
pfuScasFeedRollerStatus	Feed roller cleaning (*1) (*2) 0: Not required 1: Required		1.3.6.1.4.1.18886.1.3.N.1.13.1(#1) 1.3.6.1.4.1.18886.1.3.N.1.13.2(#2) ...
	INTEGER	Read Only	1.3.6.1.4.1.18886.1.3.N.1.13.1000(#1,000)
pfuScasAssistRollerStatus	Assist roller cleaning (*1) (*2) 0: Not required		1.3.6.1.4.1.18886.1.3.N.1.14.1(#1) 1.3.6.1.4.1.18886.1.3.N.1.14.2(#2)

Key Name		Corresponding OID in the MIB
Key Description	Access Permission	
1: Required		...
INTEGER	Read Only	1.3.6.1.4.1.18886.1.3.N.1.14.1000(#1,000)
pfuScasCleaningGlass		1.3.6.1.4.1.18886.1.3.N.1.15.1(#1)
Glass cleaning (*1) (*2)		1.3.6.1.4.1.18886.1.3.N.1.15.2(#2)
0: Not required		...
1: Required		1.3.6.1.4.1.18886.1.3.N.1.15.1000(#1,000)
INTEGER	Read Only	
pfuScasCleaningEventPeriodCount		1.3.6.1.4.1.18886.1.3.N.1.16.1(#1)
Paper jam, Multifeed: Occurrences within one day (*1) (*2)		1.3.6.1.4.1.18886.1.3.N.1.16.2(#2)
		...
INTEGER	Read/Write	1.3.6.1.4.1.18886.1.3.N.1.16.1000(#1,000)
pfuScasCleaningEventPeriodCountThreshold		1.3.6.1.4.1.18886.1.3.N.1.17.1(#1)
Paper jam, Multifeed: Cleaning threshold (Occurrences within one day) (*1) (*2)		1.3.6.1.4.1.18886.1.3.N.1.17.2(#2)
		...
INTEGER	Read Only	1.3.6.1.4.1.18886.1.3.N.1.17.1000(#1,000)
pfuScasCleaningEventThroughputCount		1.3.6.1.4.1.18886.1.3.N.1.18.1(#1)
Paper jam, Multifeed: Occurrences within throughput (*1) (*2)		1.3.6.1.4.1.18886.1.3.N.1.18.2(#2)
		...
INTEGER	Read/Write	1.3.6.1.4.1.18886.1.3.N.1.18.1000(#1,000)
pfuScasCleaningEventThroughputCountThreshold		1.3.6.1.4.1.18886.1.3.N.1.19.1(#1)
Paper jam, Multifeed: Cleaning threshold (Occurrences within throughput) (*1) (*2)		1.3.6.1.4.1.18886.1.3.N.1.19.2(#2)
		...
INTEGER	Read Only	1.3.6.1.4.1.18886.1.3.N.1.19.1000(#1,000)
pfuScasPadAssemblyStatus		1.3.6.1.4.1.18886.1.3.N.1.20.1(#1)
PAD ASSY Status (*1)		1.3.6.1.4.1.18886.1.3.N.1.20.2(#2)
0: Allowed		...
1: Replace soon		...
2: Replace now		1.3.6.1.4.1.18886.1.3.N.1.20.1000(#1,000)
INTEGER	Read Only	
pfuScasPickRollerStatus		1.3.6.1.4.1.18886.1.3.N.1.21.1(#1)
PICK ROLLER Status (*1)		1.3.6.1.4.1.18886.1.3.N.1.21.2(#2)
0: Allowed		...
1: Replace soon		...
2: Replace now		1.3.6.1.4.1.18886.1.3.N.1.21.1000(#1,000)
INTEGER	Read Only	
pfuScasBrakeRollerStatus		1.3.6.1.4.1.18886.1.3.N.1.22.1(#1)
Brake Roller Status (*1)		1.3.6.1.4.1.18886.1.3.N.1.22.2(#2)
0: Allowed		...
1: Replace soon		...
2: Replace now		1.3.6.1.4.1.18886.1.3.N.1.22.1000(#1,000)
INTEGER	Read Only	
pfuScasSeparatorRollerStatus		1.3.6.1.4.1.18886.1.3.N.1.23.1(#1)
Separator Roller Status (*1)		1.3.6.1.4.1.18886.1.3.N.1.23.2(#2)
0: Allowed		...
1: Replace soon		...
2: Replace now		1.3.6.1.4.1.18886.1.3.N.1.23.1000(#1,000)
INTEGER	Read Only	
pfuScasPrintCartridgeStatus		1.3.6.1.4.1.18886.1.3.N.1.24.1(#1)
Print Cartridge Status (*1)		1.3.6.1.4.1.18886.1.3.N.1.24.2(#2)
0: Allowed		...
1: Replace soon		...
2: Replace now		1.3.6.1.4.1.18886.1.3.N.1.24.1000(#1,000)
INTEGER	Read Only	

(*1) When this part is not attached to the scanner, "-1" is returned.

(*2) When maintenance information notifications are not enabled in the SCA Server settings, "-1" is returned.

4.3 Information in the Notifications Sent with TRAP/INFORM

The scanner information in the notifications sent with TRAP/INFORM is as follows:

The notification of the scanner information is sent with each information item connected with ",".

Information Item	Description	Corresponding OID in the MIB
Date/Time	Message notification date/time (MM/DD/YYYY hh:mm:ss AM/PM)	1.3.6.1.4.1.18886.1.3.1
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 connected to the computer from which the message is sent	
Serial Number	Serial number (10 digits) of the scanner connected to the computer from which the message is sent	
Event_Type	Message type <ul style="list-style-type: none"> - Error - Warning - Information - Test 	
Message_Code	Message code for a message displayed in the [Event Log] window of the SCA Console	
Message	Message content displayed in the [Event Log] window of the SCA Console	

4.4 Order of the OIDs

The order of the OIDs with GET NEXT REQUEST or GET BULK REQUEST is as follows:

OID	Information Item
1.3.6.1.2.1.1.1.x	sysDescr
1.3.6.1.2.1.1.2.x	sysObjectID
1.3.6.1.2.1.2.2.1.6.x	ifPhysAddress
1.3.6.1.2.1.25.3.2.1.1.x	hrDeviceIndex
1.3.6.1.2.1.25.3.2.1.2.x	hrDeviceType
1.3.6.1.2.1.25.3.2.1.3.x	hrDeviceDescr
1.3.6.1.2.1.25.3.2.1.4.x	hrDeviceID
1.3.6.1.2.1.25.3.2.1.5.x	hrDeviceStatus
1.3.6.1.2.1.25.3.2.1.6.x	hrDeviceErrors
1.3.6.1.2.1.43.5.1.1.16.x	prtGeneralPrinterName
1.3.6.1.2.1.43.5.1.1.17.x	prtGeneralSerialNumber
1.3.6.1.2.1.43.10.2.1.1.1.x	prtMarkerIndex
1.3.6.1.2.1.43.10.2.1.1.2.x	
1.3.6.1.2.1.43.10.2.1.1.3.x	
1.3.6.1.2.1.43.10.2.1.3.1.x	prtMarkerCounterUnit
1.3.6.1.2.1.43.10.2.1.3.2.x	
1.3.6.1.2.1.43.10.2.1.3.3.x	
1.3.6.1.2.1.43.10.2.1.4.1.x	prtMarkerLifeCount
1.3.6.1.2.1.43.10.2.1.4.2.x	
1.3.6.1.2.1.43.10.2.1.4.3.x	
1.3.6.1.4.1.18886.1.3.N.1.1.x	pfuScasScannerIndex
1.3.6.1.4.1.18886.1.3.N.1.2.x	pfuScasModelName
1.3.6.1.4.1.18886.1.3.N.1.3.x	pfuScasSerialNo
1.3.6.1.4.1.18886.1.3.N.1.4.x	pfuScasOperatingStatus
1.3.6.1.4.1.18886.1.3.N.1.5.x	pfuScasErrorStatus
1.3.6.1.4.1.18886.1.3.N.1.6.x	pfuScasAdfTotalThroughput
1.3.6.1.4.1.18886.1.3.N.1.7.x	pfuScasFbTotalThroughput
1.3.6.1.4.1.18886.1.3.N.1.8.x	pfuScasRtTotalThroughput
1.3.6.1.4.1.18886.1.3.N.1.9.x	pfuScasFirmwareVersion
1.3.6.1.4.1.18886.1.3.N.1.10.x	pfuScasVendor
1.3.6.1.4.1.18886.1.3.N.1.11.x	pfuScasCleaningCycle
1.3.6.1.4.1.18886.1.3.N.1.12.x	pfuScasCleaningCycleThreshold

OID	Information Item
1.3.6.1.4.1.18886.1.3.N.1.13.x	pfuScasFeedRollerStatus
1.3.6.1.4.1.18886.1.3.N.1.14.x	pfuScasAssistRollerStatus
1.3.6.1.4.1.18886.1.3.N.1.15.x	pfuScasGlassCleaningStatus
1.3.6.1.4.1.18886.1.3.N.1.16.x	pfuScasCleaningEventPeriodCount
1.3.6.1.4.1.18886.1.3.N.1.17.x	pfuScasCleaningEventPeriodStatus
1.3.6.1.4.1.18886.1.3.N.1.18.x	pfuScasCleaningEventThroughputCount
1.3.6.1.4.1.18886.1.3.N.1.19.x	pfuScasCleaningEventCountStatus
1.3.6.1.4.1.18886.1.3.N.1.20.x	pfuScasPadAssemblyStatus
1.3.6.1.4.1.18886.1.3.N.1.21.x	pfuScasPickRollerStatus
1.3.6.1.4.1.18886.1.3.N.1.22.x	pfuScasBrakeRollerStatus
1.3.6.1.4.1.18886.1.3.N.1.23.x	pfuScasSeparatorRollerStatus
1.3.6.1.4.1.18886.1.3.N.1.24.x	pfuScasPrintCartridgeStatus

5. Error Messages

5.1 GET REQUEST

- When the OID specified with GET REQUEST does not exist, the following message is sent to the SNMP manager.
"No Such Object available on this agent at this OID"
- If the SCA Server cannot be connected to the SCA Database when GET REQUEST is executed, the following message is sent to the SNMP manager.
"Timeout: No Response from <the IP address of the computer that has the SCA Server installed>"

5.2 GET NEXT REQUEST

- When the OID specified with GET NEXT REQUEST does not exist, the following message is sent to the SNMP manager.
"No Such Object available on this agent at this OID"
- When the OID specified with GET NEXT REQUEST is the last OID, the following message is sent to the SNMP manager.
"No more variables left in this MIB View (It is past the end of the MIB tree)"
- If the SCA Server cannot be connected to the SCA Database when GET NEXT REQUEST is executed, the following message is sent to the SNMP manager.
"Timeout: No Response from <the IP address of the computer that has the SCA Server installed>"

5.3 SET REQUES

- When the OID specified with SET REQUEST does not exist, the following message is sent to the SNMP manager.
"No Such Object available on this agent at this OID"
- When the OID specified with SET REQUEST is in "Read Only", the following message is sent to the SNMP manager.
"No access to set this object"
- When the data type specified with SET REQUEST is wrong, the following message is sent to the SNMP manager.
"(Bad variable type)Type of attribute is INTEGER"
- When the value specified with SET REQUEST is wrong, the following message is sent to the SNMP manager.
"(Bad Value) The value given has the wrong type or length"
- If the SCA Server cannot be connected to the SCA Database when SET REQUEST is executed, the following message is sent to the SNMP manager.
"MIB node set failure"

5.4 GET BULK REQUEST

- When the OID specified with GET BULK REQUEST does not exist, the following message is sent to the SNMP manager.
"No Such Object available on this agent at this OID"
- When the OID specified with GET BULK REQUEST is the last OID, the following message is sent to the SNMP manager.
"No more variables left in this MIB View (It is past the end of the MIB tree)"
- If the SCA Server cannot be connected to the SCA Database when GET BULK REQUEST is executed, the following message is sent to the SNMP manager.
"Timeout: No Response from <the IP address of the computer that has the SCA Server installed>"

5.5 INFORM REQUEST

When an error occurs with INFORM REQUEST, the following message notification is sent to the event logs in the SCA Server

Error Code	Message	Action
7A023111	INFORM REQUEST could not be sent to the SNMP manager. Details: xxx	<ul style="list-style-type: none"> - Make sure that the SNMP manager is running. - Make sure that the network environment is correctly set up.