

# Scanner Central Admin Server

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## SNMP Agent Reference Guide 1.1

# 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.

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## **Screen Examples in This Manual**

Microsoft product screenshots are reprinted with permission from Microsoft Corporation.

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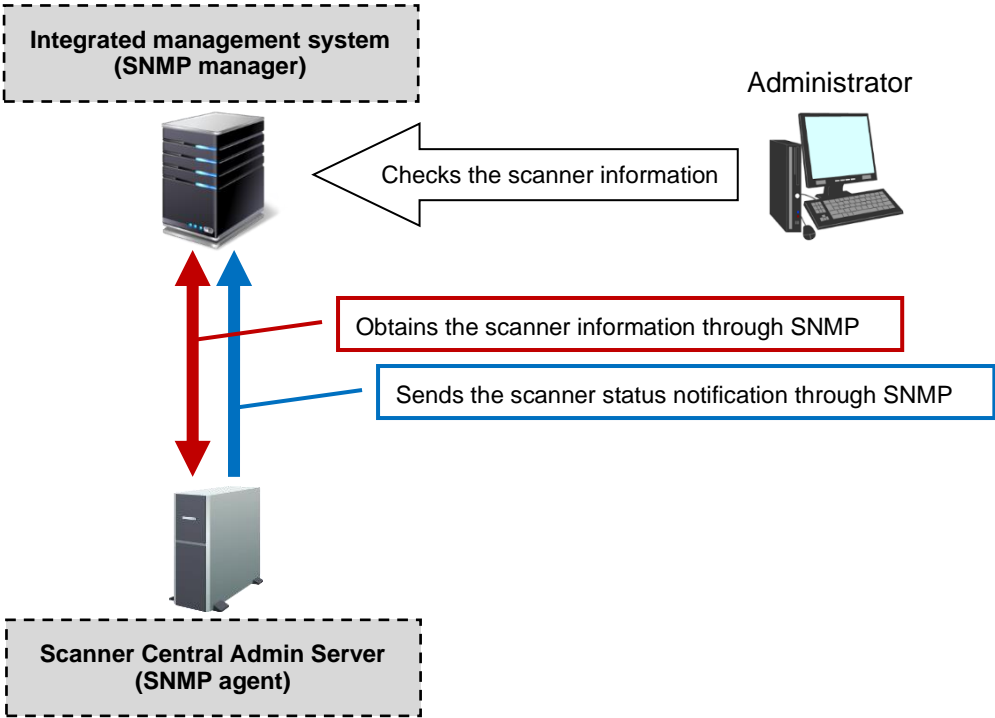
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# 1. Overview

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	<a href="#">GET REQUEST</a>	Yes	Yes	Yes
	<a href="#">GET NEXT REQUEST</a>	Yes	Yes	Yes
	<a href="#">SET REQUEST</a>	Yes	Yes	Yes
	<a href="#">GET RESPONSE</a>	Yes	Yes	Yes
	<a href="#">TRAP</a>	Yes	Yes	Yes
	<a href="#">GET BULK REQUEST</a>	-	Yes	Yes
	<a href="#">INFORM REQUEST</a>	-	Yes	Yes

### 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		Corresponding OID in the MIB
<b>pfuScasCleaningEventPeriodCount</b>		1.3.6.1.4.1.18886.1.3.N.1.16.1(#1)
Paper jam, Multifeed: Occurrences within one day		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)
<b>pfuScasCleaningEventThroughputCount</b>		1.3.6.1.4.1.18886.1.3.N.1.18.1(#1)
Paper jam, Multifeed: Occurrences within throughput		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](#)".

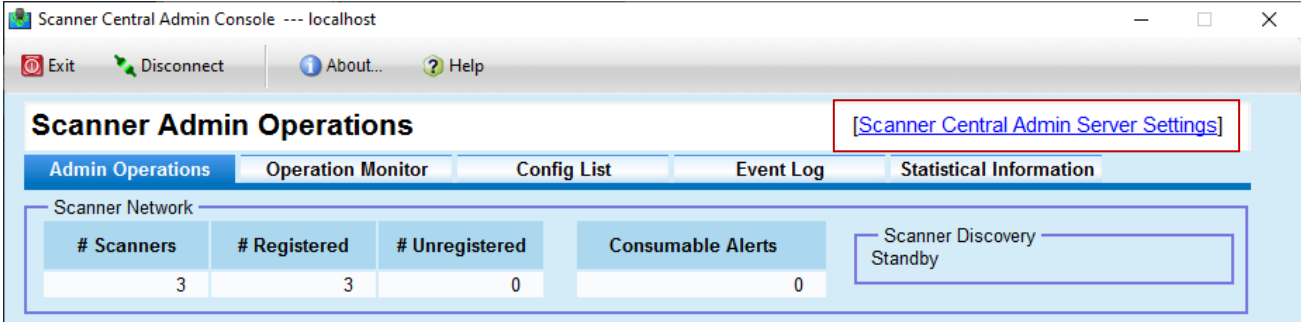
The SCA Server (SNMP agent) sends an information notification to the SNMP manager in the following case:

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

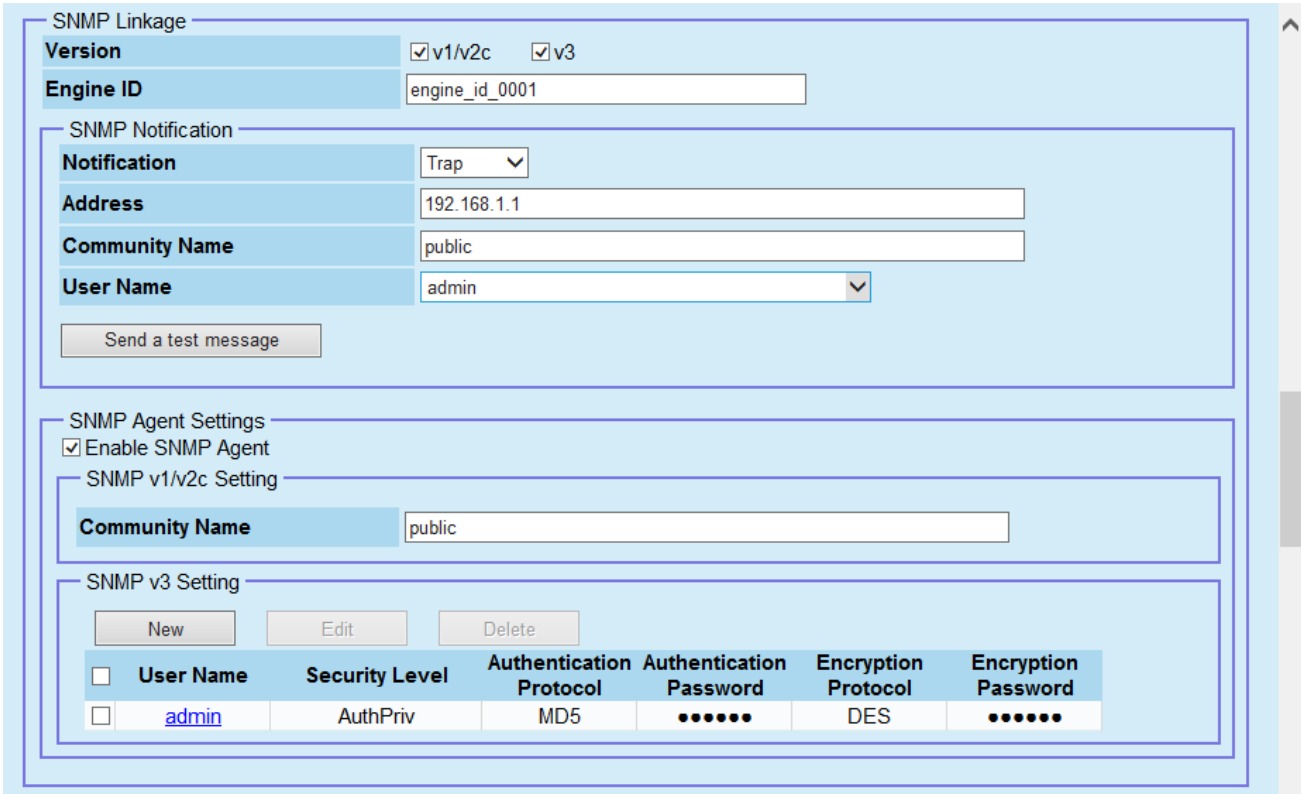
### 3. Pre-settings (Scanner Central Admin Server)

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 Linkage settings.

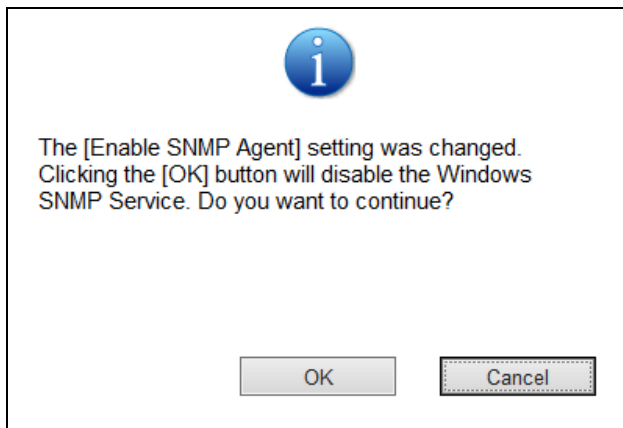


Item	Description
Version	Specify the SNMP version. Enabling [v1/v2c] and/or [v3] is possible.
Engine ID	Specify the Engine ID to uniquely identify the SNMP agent when [v3] is enabled. The Engine ID can be 1 to 27 characters in length and is case sensitive. The below characters can be used. <ul style="list-style-type: none"> <li>Alphanumeric: A-Z, a-z, 0-9</li> </ul>

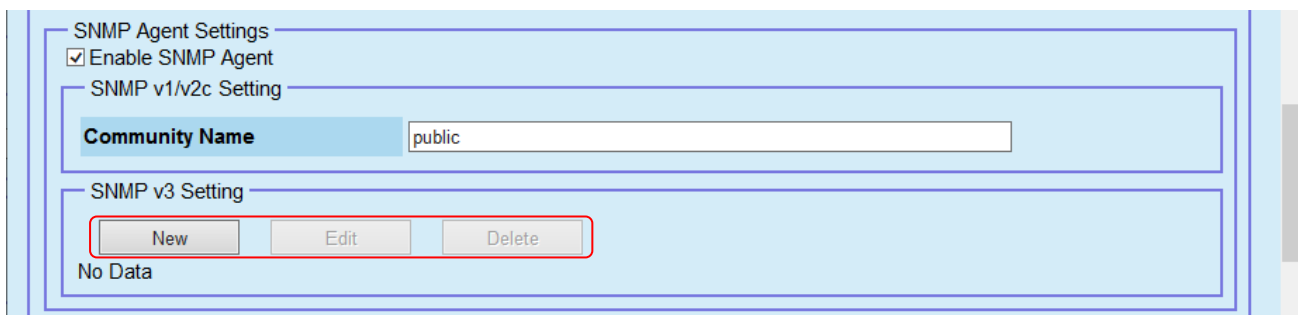


		• Symbols: !@#\$\$%^&*()_+= V~`{}[]:;'"<>.,?	
SNMP Notification	Notification	Specify how to send a notification about an SNMP event.	
	Address	Specify the IP address of the SNMP manager. The IP address, host name, or FQDN can be used.	
	Community Name	Specify the Community Name of the SNMP agent when [v1/v2c] is enabled.	
	User Name	Specify the username of the SNMP agent from the dropdown list of usernames configured in [SNMP Agent Settings] -> [SNMP v3] when [v3] is enabled.	
SNMP Agent Settings	Enable SNMP Agent	The SNMP agent is enabled to accept requests from the SNMP manager (*1).	
	SNMP v1/v2c	Community Name	Specify the Community Name of the SNMP agent when [v1/v2c] is enabled.
	SNMP v3	New	Add an SNMP v3 user when [v3] is enabled.
		Edit	Edit an SNMP v3 user when [v3] is enabled.
		Delete	Delete an SNMP v3 user when [v3] is enabled.

\*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".)



4. Configure SNMP v3 users' settings when SNMP v3 is enabled.



Click [New] button, or select a user and click [Edit] button, then the below screen is shown.

The image shows a dialog box titled "SNMP v3 Setting". It contains the following fields and controls:

- User Name:** A text input field.
- Security Level:** A dropdown menu with "authPriv" selected.
- Authentication Protocol:** A dropdown menu with "MD5" selected.
- Authentication Password:** A text input field.
- Encryption Protocol:** A dropdown menu with "DES" selected.
- Encryption Password:** A text input field.
- Buttons:** "OK" and "Cancel" buttons at the bottom.

Item	Description
User Name	Specify the username of SNMP v3 user when [v3] is enabled. The username can be 1 to 32 characters in length and is case sensitive. The below characters can be used: <ul style="list-style-type: none"> <li>Alphanumeric: A-Z, a-z, 0-9</li> <li>Symbols: !@#\$%^&amp;*()_+= V~`{}[]:;'"&lt;&gt;,.?</li> </ul> Up to 30 users can be configured.
Security Level	The below security levels can be selected: "noAuthNoPriv", "authNoPriv", or "authPriv"
Authentication Protocol	The below authentication protocols can be selected: "MD5", "SHA1", "SHA256", "SHA384", or "SHA512"
Authentication Password	Specify the authentication password when security level is set to "authNoPriv" or "authPriv". The authentication password can be 8 to 64 characters in length and is case sensitive. The below characters can be used: <ul style="list-style-type: none"> <li>Alphanumeric: A-Z, a-z, 0-9</li> <li>Symbols: !@#\$%^&amp;*()_+= V~`{}[]:;'"&lt;&gt;,.?</li> </ul>
Encryption Protocol	The below encryption protocols can be selected: "DES", "3DES", "AES128", "AES192", or "AES256"
Encryption Password	Specify the encryption password when security level is set to "authPriv". The encryption password can be 8 to 64 characters in length and is case sensitive. The below characters can be used: <ul style="list-style-type: none"> <li>Alphanumeric: A-Z, a-z, 0-9</li> <li>Symbols: !@#\$%^&amp;*()_+= V~`{}[]:;'"&lt;&gt;,.?</li> </ul>

## 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	Access Permission	Corresponding OID in the MIB
<b>sysDescr</b>	Description of the system <VendorName> <ModelName> <SeiralNumber> <Version>		1.3.6.1.2.1.1.1.1.1.1(#1) 1.3.6.1.2.1.1.1.2.2(#2) ...
	STRING	Read Only	1.3.6.1.2.1.1.1.1000(#1,000)
<b>sysObjectID</b>	OID in the expanded MIB for PFU 1.3.6.1.4.1.18886.1.3 (fixed)		1.3.6.1.2.1.1.2.1(#1) 1.3.6.1.2.1.1.2.2(#2) ...
	IDENTIFIER	Read Only	1.3.6.1.2.1.1.2.1000(#1,000)
<b>ifPhysAddress</b>	Description of the MAC address for the computer <MACAddress>		1.3.6.1.2.1.2.2.1.6.1(#1) 1.3.6.1.2.1.2.2.1.6.2(#2) ...
	STRING	Read Only	1.3.6.1.2.1.2.2.1.6.1000(#1,000)
<b>hrDeviceIndex</b>	Index of the scanners registered with the SCA Server (1 to 1000).		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) ...
	INTEGER	Read Only	1.3.6.1.2.1.25.3.2.1.1.1000(#1,000)
<b>hrDeviceType</b>	Device type. The fixed value below is used. HOST-RESOURCES-MIB::hrDeviceTypes.1		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) ...
	IDENTIFIER	Read Only	1.3.6.1.2.1.25.3.2.1.2.1000(#1,000)
<b>hrDeviceDescr</b>	Description of the scanner, including the manufacturer, version, and serial number (optional) of the scanner. <VendorName> <ModelName> <SeiralNumber> <Version>		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) ...
	STRING	Read Only	1.3.6.1.2.1.25.3.2.1.3.1000(#1,000)
<b>hrDeviceID</b>	OID in the expanded MIB for PFU 1.3.6.1.4.1.18886.1.3 (fixed)		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) ...
	IDENTIFIER	Read Only	1.3.6.1.2.1.25.3.2.1.4.1000(#1,000)
<b>hrDeviceStatus</b>	Power status of the scanner unknown(1): (power off) running(2): (power on)		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) ...
	INTEGER	Read Only	1.3.6.1.2.1.25.3.2.1.5.1000(#1,000)
<b>hrDeviceErrors</b>	Error status of the scanner 0: No errors have occurred 1: Some errors have occurred		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) ...
	Counter32	Read Only	1.3.6.1.2.1.25.3.2.1.6.1000(#1,000)
<b>prtGeneralPrinterName</b>	Model name of the scanner		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) ...
	STRING	Read Only	1.3.6.1.2.1.43.5.1.1.16.1000(#1,000)
<b>prtGeneralSerialNumber</b>	Serial number of the scanner		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) ...
	STRING	Read Only	1.3.6.1.2.1.43.5.1.1.17.1000(#1,000)

Key Name		Corresponding OID in the MIB
Key Description		
Data Type	Access Permission	
<b>prtMarkerIndex</b>		
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)
<b>prtMarkerCounterUnit</b>		
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)
<b>prtMarkerLifeCount</b>		
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	
<b>pfuScasScannerIndex</b>	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)
<b>pfuScasModelName</b>	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)
<b>pfuScasSerialNo</b>	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)
<b>pfuScasOperatingStatus</b>	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)
<b>pfuScasErrorStatus</b>	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)
<b>pfuScasAdfTotalThroughput</b>	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)
<b>pfuScasFbTotalThroughput</b>	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)
<b>pfuScasRtTotalThroughput</b>	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)
<b>pfuScasFirmwareVersion</b>	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)
<b>pfuScasVendor</b>	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)
<b>pfuScasCleaningCycle</b>	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)
<b>pfuScasCleaningCycleThreshold</b>	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)
<b>pfuScasFeedRollerStatus</b>	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)
<b>pfuScasAssistRollerStatus</b>	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		
Data Type	Access Permission	
1: Required		...
INTEGER	Read Only	1.3.6.1.4.1.18886.1.3.N.1.14.1000(#1,000)
<b>pfuScasCleaningGlass</b>		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	
<b>pfuScasCleaningEventPeriodCount</b>		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)
<b>pfuScasCleaningEventPeriodCountThreshold</b>		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)
<b>pfuScasCleaningEventThroughputCount</b>		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)
<b>pfuScasCleaningEventThroughputCountThreshold</b>		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)
<b>pfuScasPadAssemblyStatus</b>		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	
<b>pfuScasPickRollerStatus</b>		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	
<b>pfuScasBrakeRollerStatus</b>		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	
<b>pfuScasSeparatorRollerStatus</b>		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	
<b>pfuScasPrintCartridgeStatus</b>		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
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"> <li>- Error</li> <li>- Warning</li> <li>- Information</li> <li>- Test</li> </ul>	
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



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## 5. Error Messages

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### 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"> <li>- Make sure that the SNMP manager is running.</li> <li>- Make sure that the network environment is correctly set up.</li> </ul>