

Audit Log Reference Guide

Contents

Preface	2
Using This Guide.....	3
Overview of Audit Log	4
Audit Log	4
Function of the Audit Log	4
Format of the Exported Audit Log	5
Message Format for Syslog Transfer of Audit Log	6
Items Stored in Audit Log	7
Change of Device Status	7
Login/Logout.....	9
Change of Audit Policy	11
Job Completion	11
Change/view of Device Setting.....	15
Access to Data Stored in Device	21
Change /Restoration of Device Configuration.....	30
Communication Result.....	31

Preface

Thank you for selecting our product.

This guide describes the overview of the audit log and the content recorded in the audit log for the system administrator. Before using the machine, please read this manual thoroughly. Be sure to keep this manual for future reference.

The guide assumes that you are familiar with a personal computer and that you are knowledgeable of computer networks. When you need additional information, refer to the manuals provided with the personal computer, operating system, and network products.

Sharp Corporation

Important

1. This manual may not be edited, modified or copied in whole or part without the written consent of the publisher.
2. Some parts of this manual are subject to change without prior notice.
3. The screen shots and the illustrations in this manual are used as examples. They may differ from yours depending on the model, the software, or the OS.

All product and company names are registered trademarks or trademarks of their respective owners.

Using This Guide

The guide describes the functions and format of the audit log.

Organization of This Guide

This guide consists of the following chapters:

1 Overview of Audit Log

Describes the overview and functions of the audit log.

2 Items Stored in Audit Log

Describes the items recorded in the audit log.

Conventions

- The following terms are used in this guide:

Important

- Indicates important information you have to know or be reminded before operations.

Note

- Indicates supplemental information useful for operations.

Refer

- Indicates reference destinations.

- The following symbols are used in this guide:

“ ”

- A cross-reference included in this guide.
- Names of media, features, and touch screen messages and input text.

[]

- Names of buttons and menus displayed on the touch screen.

- The items or format of the audit log to be saved may vary depending on the model.

1 Overview of Audit Log

1.1 Audit Log

Audit logs are the time-series records of important events (hereafter referred to as “audit event”) that occurred in device, such as trouble, configuration change, and user operation, in which “who”, “what”, “when”, and “result” are described.

The audit-log function is used for security audit for detecting the user's illicit usage.

1.2 Function of the Audit Log

Storing the audit log

The device stores audit events that occur on the device as the audit logs.

Up to 15,000 audit logs can be saved in the device and when the number reaches 15,000, the device overwrites the logs in chronological order.

When no storage is installed on the device, a maximum of 50 logs can be stored.

To store the audit logs, enable the audit log settings on the device or Internet Services.

Exporting the audit log

The audit logs stored in the device can be exported from Internet Services in text file format.

Sending the audit log to the Syslog server

The audit logs stored in the device can be sent by Syslog transfer (transferred to the other computers on the network in the Syslog protocol).

The Syslog transfer setting is available on device.

Refer

- For information on the setting on the device, refer to the manual of the device.
- For information on the setting on Internet Services, refer to the help of Internet Services.

1.3 Format of the Exported Audit Log

Header information

Item	Format	Description
Format Version	Integer	The setting value is "3"
Device's IP Address	Character string that consists of half-size alphanumeric characters (a to z, 0 to 9), dot(.), colon(:)	Displays the IP address (IPv4 or IPv6)
Coding Method	String	Fixed to UTF-8
Time Zone	-720 to 720	Displays time difference based on GMT The unit is minute, and the value is negative if the time zone is west of Meridian.
Date Format	YYYY/MM/DD, MM/DD/YYYY, or DD/MM/YYYY	

Audit log information

Item	Format	Description
Log ID	Integer (1 to 60000)	ID that is assigned when audit event occurs is exported
Date	String	Date of audit-event occurrence is exported
Time	hh:mm:ss	Time of audit-event occurrence (hour, minute, and second) is exported
Audit Event ID	Hexadecimal integer (0x0000 to 0xffff)	ID that corresponds to audit event is exported
Logged Events	String	A string representing the type of the audit event is exported
User Name	String	A string* representing the user who caused the audit event is exported
Description	String	A string that describes the details of the audit event is exported
Status	String	Character string that represents the status or processing result of occurred audit-event is exported
Optionally Logged Items	String	Optionally logged information of audit event is exported

- * :Default action: user ID
 When the user ID is unknown: user name
 When both the user ID and user name are unknown: -
 System administrator: KO
 Customer engineer: CE
 Unregistered user: Guest
 When system internal operation triggered the event: System
 When the event is triggered via NMP: SNMP: admin

1.4 Message Format for Syslog Transfer of Audit Log

Item	Format	Description
Priority	Integer	Integer calculated with the following expression Facility << 3 Severity Note <ul style="list-style-type: none"> Facility can be set in the device. Severity is fixed to "6".
Version	1	Fixed to "1"
Date/Time	yyyy-mm-ddThh:mm:ssZ	Date and Time (hour, minute, and second) of audit-event occurrence The time zone is UTC.
Device Information	For FQDN and host name: String For IPv4 address: nnn.nnn.nnn.nnn	-
App-Name	-	Fixed to "-"
ProclD	-	Fixed to "-"
MsgId	-	Fixed to "-"
Structured-Data	-	Fixed to "-"
Audit-log ID	ID=nnnnnn	ID that is assigned when audit event occurs is exported
User Name	UserName=String	A string representing the user who caused the audit event is exported Refer <ul style="list-style-type: none"> Audit log information (P.5)
Logged Events	Event=String	ID that corresponds to audit event is exported
Logged Event Description	Description=String	A string that describes the details of the audit event is exported
Status	Status=String	Character string that represents the status or processing result of occurred audit-event is exported
Optionally Logged Item	OptItems=String	Optionally logged information of the audit event is exported

2 Items Stored in Audit Log

2.1 Change of Device Status

Item	Description
Audit Event ID	0x0101
Logged Events	"System Status"

Start/stop of Device Operation

Normal cold-booting

Item	Description
Date/Time	When device status becomes "Ready"
User Name	"_"
Description	"Started normally (cold boot)"
Status	"_"
Optionally Logged Items	"_"

Normal warm-booting

Item	Description
Date/Time	When device status becomes "Ready"
User Name	"_"
Description	"Started normally (warm boot)"
Status	"_"
Optionally Logged Items	"_"

Bootting due to forced initialization of the log

Item	Description
Date/Time	When device status becomes "Ready"
User Name	"_"
Description	"Started (NVM initialized)"
Status	"_"
Optionally Logged Items	"_"

Booting due to forced initialization of the storage

Item	Description
Date/Time	When device status becomes "Ready"
User Name	"_"
Description	"Started (Storage initialized)"
Status	"_"
Optionally Logged Items	"_"

Shutdown

Item	Description
Date/Time	When device detects a request to turn off the power
User Name	"_"
Description	"Shutdown requested"
Status	"_"
Optionally Logged Items	<p>Action</p> <p>Up to 64 bytes, excluding the null-terminated string</p> <p>When failure recovery is done, describe as "Recovered from failures"</p> <p>Otherwise, describe as "-"</p>

Self Test

Result of Self Test

Item	Description
Date/Time	Just before the device becomes "Ready"
User Name	"_"
Description	"Self Test"
Status	"Successful" or "Failed"
Optionally Logged Items	<p>Checksum of ROM Image1</p> <p>Checksum of ROM Image2</p>

2.2 Login/Logout

Item	Description
Audit Event ID	0x0201
Logged Events	"Login/Logout"

User authentication

Login

Item	Description
Date/Time	When user-authentication result is fixed
User Name	User ID of the corresponding login
Description	"Login"
Status	"Successful", "Failed(Invalid UserID)", "Failed(Invalid Password)" or "Failed"
Optionally Logged Items	<p>Access method "Local", "Web User Interface" or "Printer Driver"</p> <p>Host name Up to 45 bytes, excluding the null-terminated string IP address</p> <p>Note</p> <ul style="list-style-type: none"> When the IP address is unknown, it is a local access, or Private Charge Print authentication fails, describe as "-". <p>Authentication method "Local", "Remote" or "Custom"</p> <p>Role "System Administrator", "Accounting Administrator", "Customer Engineer", "Customer Engineer (Unlimited Operation)", "Casual Operator" or "-"</p> <p>Note</p> <ul style="list-style-type: none"> When login fails, describe as "-". For the system administrator, describe as "System Administrator"; for the customer engineer, describe as "Customer Engineer"; and for local users and unregistered users, describe as "Casual Operator".

Note

- When Private Charge Print authentication fails, an audit log is recorded only when the following all conditions are satisfied.
 - Private Charge Print is enabled and [Charge / Private Print Settings] is set as follows:
 - [Receive Control] :[Control by Job Login Results]
 - [Job Login Success] :[Save as Private Charge Print Job]
 - [Job Login Failure] :[Delete Job]
 - [Job Without User ID] :[Delete Job]
 - The type of the print job is either one of the following:
 - User authentication for the user information attached to the print job fails
 - Print job with no user information attached

Logout

Item	Description
Date/Time	When user's logout request is detected
User Name	User ID of the corresponding login
Description	"Logout"
Status	"Successful" or "Failed"
Optionally Logged Items	<p>Access method "Local" or "Web User Interface"</p> <p>Host name Up to 45 bytes, excluding the null-terminated string IP address</p> <p>Note</p> <ul style="list-style-type: none"> When the IP address is unknown or it is a local access, describe as "-".

Access denial due to authentication failures

Note

- Due to timing, access denial can be recorded before the corresponding authentication failure by the system administrator is recorded.

Item	Description
Date/Time	When the number of successive authentication failure reaches the number set in the system
User Name	User ID of the corresponding login
Description	"Locked Authentication"
Status	"-"
Optionally Logged Items	Number of authentication failures before access denial

Detection of unauthorized access

Note

- Due to timing, access denial can be recorded before the corresponding authentication failure by the system administrator is recorded.

Item	Description
Date/Time	When the number of successive authentication failure within the specified time reaches the number set in the system
User Name	User ID of the corresponding login
Description	"Detected continuous Authentication Fail"
Status	"-"
Optionally Logged Items	<p>Detection means (protocol) "SNMPv3", "Web User Interface" or "-"</p> <p>Number of successive authentication failures before detected as an unauthorized access</p>

2.3 Change of Audit Policy

Item	Description
Audit Event ID	0x0301
Logged Events	"Audit Policy"

Access to important data

Enabling of audit-log management function

Item	Description
Date/Time	When setting the specified item is complete
User Name	User ID
Description	"Audit Log"
Status	"Enabled"
Optionally Logged Items	"_"

Disabling of audit-log management function

Item	Description
Date/Time	When setting the specified item is complete
User Name	User ID
Description	"Audit Log"
Status	"Disabled"
Optionally Logged Items	"_"

2.4 Job Completion

Item	Description
Audit Event ID	0x0401
Logged Events	"Job Status"

Job

Print

Item	Description
Date/Time	When job is completed
User Name	User ID or user name of the user who executed the job
Description	"Print"
Status	"Completed", "Completed with Warnings", "Canceled by User", "Canceled by Shutdown", "Aborted" or "Unknown"

Item	Description
Optionally Logged Items	<p>Root job UUID Up to 36 bytes, excluding the null-terminated string</p> <p>Relation between root job UUID and the corresponding job "Related" or "Owned"</p> <p>Job Account ID Up to 32 bytes, excluding the null-terminated string When the value is not set, describe as "-"</p> <p>Action Up to 64 bytes, excluding the null-terminated string When the forced printing is suspended, describe as "Released forced output" Otherwise, describe as "-"</p> <p>Host name Up to 45 bytes, excluding the null-terminated string</p> <p>Note</p> <ul style="list-style-type: none"> When the host name is unknown, the IP address is recorded, and when both the host name and IP address are unknown, describe as "-". <p>File Name Up to 64 bytes, excluding the null-terminated string When the value is not set, describe as "-"</p> <p>Job Type Up to 16 bytes, excluding the null-terminated string When the value is not set, describe as "-"</p>

Copy

Item	Description
Date/Time	When job is completed
User Name	User ID or user name of the user who executed the job
Description	"Copy"
Status	"Completed", "Completed with Warnings", "Canceled by User", "Canceled by Shutdown", "Aborted" or "Unknown"
Optionally Logged Items	<p>Root job UUID Up to 36 bytes, excluding the null-terminated string</p> <p>Relation between root job UUID and the corresponding job "Related" or "Owned"</p> <p>Job Account ID Up to 32 bytes, excluding the null-terminated string When the value is not set, describe as "-"</p> <p>Action Up to 64 bytes, excluding the null-terminated string When the forced printing is suspended, describe as "Released forced output" When detection of scan-job inhibition code is suspended, describe as "Ignored inhibited code" Otherwise, describe as "-"</p>

Scan

Item	Description
Date/Time	When job is completed
User Name	User ID or user name of the user who executed the job
Description	"Scan"
Status	"Completed", "Completed with Warnings", "Canceled by User", "Canceled by Shutdown", "Aborted" or "Unknown"
Optionally Logged Items	<p>Root job UUID Up to 36 bytes, excluding the null-terminated string</p> <p>Relation between root job UUID and the corresponding job "Related" or "Owned"</p> <p>Job Account ID Up to 32 bytes, excluding the null-terminated string When the value is not set, describe as "-"</p> <p>Action Up to 64 bytes, excluding the null-terminated string When detection of scan-job inhibition code is suspended, describe as "Ignored inhibited code" When encryption is used, describe as "Encrypted" When the signature is applied, describe as "Signed" Other than the above, describe as "-"</p> <p>Destination Name (to) Up to 64 bytes, excluding the null-terminated string When the value is not set, describe as "-"</p> <p>Note</p> <ul style="list-style-type: none"> • Only e-mail address can be set. <p>Sender Name (from) Up to 64 bytes, excluding the null-terminated string When the value is not set, describe as "-"</p> <p>Note</p> <ul style="list-style-type: none"> • Only e-mail address can be set. <p>Document ID for URL send Up to 10 bytes, excluding the null-terminated string When the value is not set, describe as "-"</p>

Folder

Item	Description
Date/Time	When job is completed
User Name	User ID or user name of the user who executed the job
Description	"Mailbox"
Status	"Completed", "Completed with Warnings", "Canceled by User", "Canceled by Shutdown", "Aborted" or "Unknown"

Item	Description
Optionally Logged Items	<p>Root job UUID Up to 36 bytes, excluding the null-terminated string</p> <p>Relation between root job UUID and the corresponding job "Related" or "Owned"</p> <p>Job Account ID Up to 32 bytes, excluding the null-terminated string When the value is not set, describe as "-"</p> <p>Action Up to 64 bytes, excluding the null-terminated string When the forced printing is suspended, describe as "Released forced output" Otherwise, describe as "-"</p>

Report

Item	Description
Date/Time	When job is completed
User Name	User ID or user name of the user who executed the job
Description	"Print Reports"
Status	"Completed", "Completed with Warnings", "Canceled by User", "Canceled by Shutdown", "Aborted" or "Unknown"
Optionally Logged Items	<p>Root job UUID Up to 36 bytes, excluding the null-terminated string</p> <p>Relation between root job UUID and the corresponding job "Related" or "Owned"</p> <p>Job Account ID Up to 32 bytes, excluding the null-terminated string When the value is not set, describe as "-"</p>

Job Flow

Item	Description
Date/Time	When job is completed
User Name	User ID or user name of the user who executed the job
Description	"Job Flow Service"
Status	"Completed", "Completed with Warnings", "Canceled by User", "Canceled by Shutdown", "Aborted" or "Unknown"
Optionally Logged Items	<p>Root job UUID Up to 36 bytes, excluding the null-terminated string</p> <p>Relation between root job UUID and the corresponding job "Related" or "Owned"</p> <p>Job Account ID Up to 32 bytes, excluding the null-terminated string When the value is not set, describe as "-"</p>

Others

Item	Description
Date/Time	When job is completed
User Name	User ID or user name of the user who executed the job
Description	"_"
Status	"Completed", "Completed with Warnings", "Canceled by User", "Canceled by Shutdown", "Aborted" or "Unknown"
Optionally Logged Items	Root job UUID Up to 36 bytes, excluding the null-terminated string Relation between root job UUID and the corresponding job "Related" or "Owned" Job Account ID Up to 32 bytes, excluding the null-terminated string When the value is not set, describe as "-"

2.5 Change/view of Device Setting

Item	Description
Audit Event ID	0x0501
Logged Events	"Device Settings"

Date & time setting

Change of date & time setting (local time)

Item	Description
Date/Time	When the result of setting change is fixed
User Name	User ID of the user who executed the job
Description	"Adjust Time"
Status	"Successful" or "Failed"

Item	Description
Optionally Logged Items	<p>Previous Date and Time Date and Time (hour, minute, and second) of audit-event occurrence</p> <p>Mean When the time is changed by the service, one of the following strings is recorded "Time change by system." "Time change by EPBB." "Time change by NTP." "Time change by SNMP." "Time change by XPJL." "Time change by SSMM." "Time change by unknown service." When the time is changed by the user, describe as "Time change by user"</p> <p>Host name or IP address If the service that has changed the time is NTP Server, the host name or IP address will be added to the record</p>

User information

User registration

Item	Description
Date/Time	When the result of user information registration is fixed
User Name	User ID
Description	"Add User"
Status	"Successful" or "Failed"
Optionally Logged Items	<p>User ID of the corresponding user Role of the corresponding user "System Administrator", "Accounting Administrator" or "Casual Operator"</p> <p>Note</p> <ul style="list-style-type: none"> For unregistered users, describe as "Casual Operator".

Change of registered user information

Note

- An audit log is recorded only when the authentication mode is set to [Local]. However, when the system administrator information is changed, an audit log is recorded even when the authentication mode is set to other than [Local].

Item	Description
Date/Time	When the result of user information change is fixed
User Name	User ID
Description	"Edit User"
Status	"Successful" or "Failed"

Item	Description
Optionally Logged Items	<p>User ID of the corresponding user When the user ID itself is changed, the new user ID is recorded</p> <p>Role of the corresponding user "System Administrator", "Accounting Administrator", "Casual Operator" or "-"</p> <p>Note</p> <ul style="list-style-type: none"> When the role itself is changed, the new role is recorded. For local users and unregistered users, describe as "Casual Operator". <p>Attributes of the corresponding user "ID", "Password", "CardID", "Name", "Permission", "Role", "ICCardID" and "Other"</p>

Deletion of registered user information

Item	Description
Date/Time	When the result of user information deletion is fixed
User Name	User ID
Description	"Delete User"
Status	"Successful" or "Failed"
Optionally Logged Items	<p>User ID of the corresponding user When the user ID itself is changed, the new user ID is recorded</p> <p>Role of the corresponding user "System Administrator", "Accounting Administrator" or "Casual Operator"</p>

Used user name management table full

Item	Description
Date/Time	When it is detected that the used user name management table is full
User Name	"_"
Description	"Deleted Username Queue Overflow"
Status	"Successful"
Optionally Logged Items	"_"

Folder

Folder creation

Item	Description
Date/Time	When the folder creation is determined
User Name	User ID
Description	"Create Mailbox"
Status	"Successful" or "Failed"

Item	Description
Optionally Logged Items	<p>Host Name Up to 45 bytes, excluding the null-terminated string</p> <p>Note</p> <ul style="list-style-type: none"> When the host name is unknown, the IP address is recorded. When both the host name and IP address are unknown, describe as "-". When the operation is conducted from the control panel, describe as "Local". <p>Folder Number Left-aligned half-width numerals (3 digits at maximum. When the most significant digit is "0", omit the "0".)</p>

Folder deletion

Item	Description
Date/Time	When the result of folder deletion is fixed
User Name	User ID
Description	"Delete Mailbox"
Status	"Successful" or "Failed"
Optionally Logged Items	<p>Host Name Up to 45 bytes, excluding the null-terminated string</p> <p>Note</p> <ul style="list-style-type: none"> When the host name is unknown, the IP address is recorded. When both the host name and IP address are unknown, describe as "-". When the operation is conducted from the control panel, describe as "Local". <p>Folder Number Left-aligned half-width numerals (3 digits at maximum. When the most significant digit is "0", omit the "0".)</p>

Authentication mode

Change

Item	Description
Date/Time	When setting the specified item is complete
User Name	User ID
Description	"Switch Authentication Mode"
Status	"Successful"
Optionally Logged Items	<p>New Setting Value "Local is enabled", "Network is enabled", "Custom is enabled" or "OFF is enabled"</p> <p>Previous Setting Value "Local is enabled", "Network is enabled", "Custom is enabled" or "OFF is enabled"</p>

Security setting

Change

Item	Description
Date/Time	When setting the specified item is complete Even if the setting is changed after rebooting, the storage timing is the time when the value is changed
User Name	User ID
Description	"Change Security Setting"
Status	"Successful"
Optionally Logged Items	<p>Items</p> <p>"Authentication"</p> <p>"Authorization"</p> <p>"Accounting"</p> <p>"Image Overwrite"</p> <p>Note</p> <ul style="list-style-type: none"> • If changed from "Off" to "3 Overwrites", two pieces of Audit Log will be recorded. <p>"Storage Encryption"</p> <p>"S/MIME"</p> <p>"IPSEC"</p> <p>"SNMPv1/v2"</p> <p>"SNMPv1/v2 (Read Only)"</p> <p>"SNMPv3"</p> <p>"SNMPv3 (Read Only)"</p> <p>"802.1x"</p> <p>"Certificate Verify Mode"</p> <p>"Maintainer Password"</p> <p>"IntelligentCard"</p> <p>"FIPS140"</p> <p>"Self Test"</p> <p>"Auto Clear Timer"</p> <p>"Service Rep. Restricted Operation"</p> <p>"Print Reports Button"</p> <p>"External Code Integrity Check"</p> <p>"No Encrypt Ext App Install"</p> <p>"CORS"</p> <p>"ThinPrint"</p>

Item	Description
Optionally Logged Items	<p>"HTTP SSL/TLS" "HTTP SSL/TLS Forced" "IPP SSL/TLS Forced" "SMTP SSL/TLS" "LDAP SSL/TLS" "ThinPrint SSL/TLS" "Session Lock Timer" "Authentication Operation Message" "USB Port Management" "Front USB-A" "Rear USB-A" "PC USB-B" "Deleted User Account Names Days of Restriction" "Maximum Number of Reusable Sequential Characters" "Number of Password Generations Required" "ID Token Validation (Microsoft Entra ID)" "Certificate Verify Mode (Microsoft Entra ID)" "Invalid User Deletion (Microsoft Entra ID)" "Syslog" "Download Disable Flag" "Firmware Download via Network" "Web UI Timer" "SSL Protocol Information" "CSRF Check" "Runtime System Protection" "Device Certificate Enrollment" "Startup Integrity Check" "POP3 with OAuth Authentication" "Common Criteria Function" "Universal Print" "TIs Security Level"</p> <p>Change description When the enabled/disabled setting is changed, describe as "is enabled" or "is disabled" respectively When the setting other than enabled/disabled is changed, describe as "is configured"</p>

View

Item	Description
Date/Time	View from Internet Services: When the HTML including the data to be referred to is obtained View from panel UI: When the [Device] screen is accessed
User Name	User ID
Description	"View Security Setting"
Status	"Successful"
Optionally Logged Items	<p>Access method "Local" or "Web User Interface"</p> <p>Host name Up to 45 bytes, excluding the null-terminated string</p> <p>Note</p> <ul style="list-style-type: none"> When the host name is unknown, the IP address is recorded. When both the host name and IP address are unknown or when it is a local access, describe as "-".

Job-related

Change

Item	Description
Date/Time	When setting the specified item is complete
User Name	"CE"
Description	"Change Job Setting"
Status	"Successful"
Optionally Logged Items	Function Name "Delay Print" or "Private Print"

XCP plugin

Start/stop of XCP plugin

Item	Description
Date/Time	When the XCP plugin starts and stops
User Name	"_"
Description	"Activate Embedded Plug-in" or "Deactivate Embedded Plug-in"
Status	"Successful" or "Failed"
Optionally Logged Items	XCP plugin name and host information of the request source

2.6 Access to Data Stored in Device

Item	Description
Audit Event ID	0x0601
Logged Events	"Device Data"

Certificate

Certificate registration

Item	Description
Date/Time	When the result of registering one certificate is fixed
User Name	User ID
Description	"Import Certificate"
Status	"Successful" or "Failed"

Item	Description
Optionally Logged Items	Category "RootCA", "DeviceEE" or "SSCEE" Key Size "512" to "2048" Issuer DN Character string is 150 bytes at maximum Serial Number 40 bytes at maximum

Certificate deletion

Item	Description
Date/Time	When the result of deleting one certificate is fixed
User Name	User ID
Description	"Delete Certificate"
Status	"Successful" or "Failed"
Optionally Logged Items	Category "RootCA", "DeviceEE" or "SSCEE" Key Size "512" to "2048" Issuer DN Character string is 150 bytes at maximum Serial Number 40 bytes at maximum

Certificate online registration

Item	Description
Date/Time	Time when a certificate is registered online
User Name	"System"
Description	"Device Certificate Enrollment"
Status	"Successful" or "Failed"
Optionally Logged Items	DN of the certificate owner

Address book

Address addition

Item	Description
Date/Time	When the result of adding one address is fixed
User Name	User ID
Description	"Add Address Entry"
Status	"Successful" or "Failed"

Item	Description
Optionally Logged Items	<p>Host name Up to 45 bytes, excluding the null-terminated string</p> <p>Note</p> <ul style="list-style-type: none"> When the host name is unknown, the IP address is recorded. When both the host name and IP address are unknown, describe as "-". When the operation is conducted from the control panel, describe as "Local". <p>Registration Number Left-aligned half-width numerals (4 digits at maximum. When the most significant digit is "0", omit the "0".)</p>

Address deletion

Item	Description
Date/Time	When the result of deleting one certificate is fixed
User Name	User ID
Description	"Delete Address Entry"
Status	"Successful" or "Failed"
Optionally Logged Items	<p>Host name Up to 45 bytes, excluding the null-terminated string</p> <p>Note</p> <ul style="list-style-type: none"> When the host name is unknown, the IP address is recorded. When both the host name and IP address are unknown, describe as "-". When the operation is conducted from the control panel, describe as "Local". <p>Registration Number Left-aligned half-width numerals (4 digits at maximum. When the most significant digit is "0", omit the "0".)</p>

Address change

Item	Description
Date/Time	When the result of changing one address is fixed
User Name	User ID
Description	"Edit Address Entry"
Status	"Successful" or "Failed"
Optionally Logged Items	<p>Host name Up to 45 bytes, excluding the null-terminated string</p> <p>Note</p> <ul style="list-style-type: none"> When the host name is unknown, the IP address is recorded. When both the host name and IP address are unknown, describe as "-". When the operation is conducted from the control panel, describe as "Local". <p>Registration Number Left-aligned half-width numerals (4 digits at maximum. When the most significant digit is "0", omit the "0".)</p>

Uploading from remote client (Whole address book)

Item	Description
Date/Time	When the result of uploading from remote client is fixed
User Name	User ID
Description	"Import Address Entry"
Status	"Successful" or "Failed"
Optionally Logged Items	<p>Host name Up to 45 bytes, excluding the null-terminated string</p> <p>Note</p> <ul style="list-style-type: none"> When the host name is unknown, the IP address is recorded, and when both the host name and IP address are unknown, describe as "-".

Downloading to remote client (Whole address book)

Item	Description
Date/Time	When the result of downloading to remote client is fixed
User Name	User ID
Description	"Export Address Entry"
Status	"Successful" or "Failed"
Optionally Logged Items	<p>Host name Up to 45 bytes, excluding the null-terminated string</p> <p>Note</p> <ul style="list-style-type: none"> When the host name is unknown, the IP address is recorded, and when both the host name and IP address are unknown, describe as "-".

Deletion of all addresses

Item	Description
Date/Time	When the result of deletion of all addresses is confirmed
User Name	User ID
Description	"Clear Address Entry"
Status	"Successful" or "Failed"
Optionally Logged Items	<p>Host name Up to 45 bytes, excluding the null-terminated string</p> <p>Note</p> <ul style="list-style-type: none"> When the host name is unknown, the IP address is recorded, and when both the host name and IP address are unknown, describe as "-".

Audit log

Downloading to remote client (Whole address book)

Item	Description
Date/Time	When the result of downloading is fixed
User Name	User ID
Description	"Export Audit Log"
Status	"Successful" or "Failed"
Optionally Logged Items	Host name Up to 45 bytes, excluding the null-terminated string Note <ul style="list-style-type: none">When the host name is unknown, the IP address is recorded, and when both the host name and IP address are unknown, describe as "-".

Document

Sending scan documents to remote client

Note

- This applies only to documents stored by the Scan job.

Item	Description
Date/Time	When the send result to the remote client is fixed
User Name	User ID
Description	"Retrieve scanned image"
Status	"Successful" or "Failed"
Optionally Logged Items	Host name Up to 45 bytes, excluding the null-terminated string Note <ul style="list-style-type: none">When the host name is unknown, the IP address is recorded, and when both the host name and IP address are unknown, describe as "-". Stored & Send Link document ID Up to 10 bytes, excluding the null-terminated string

Deletion

Note

- An audit log is not recorded in the following cases:
 - When a folder is deleted (an audit log for "Folder Deletion" is recorded)
 - When deletion is executed from WebDAV or custom service content
 - When a document is deleted due to expiration (over time)
 - When a stored file other than a file in the folders or Private Charge Print, such as stored files for Delayed Print and Store Files for Polling, is deleted

Item	Description
Date/Time	When the document deletion is determined
User Name	User ID
Description	"Delete Document"
Status	"Successful" or "Failed"
Optionally Logged Items	<p>Host name Up to 45 bytes, excluding the null-terminated string</p> <p>Note</p> <ul style="list-style-type: none"> • When the host name is unknown, the IP address is recorded. When both the host name and IP address are unknown, describe as "-". When the operation is conducted from the control panel, describe as "Local". <p>Folder number Can be up to 3 half-width numerals, in left-justified omitting leading zeros</p> <p>File number Can be up to 4 half-width numerals, in left-justified omitting leading zeros</p>

Custom service

Install

Item	Description
Date/Time	When the Install process is ended
User Name	"_"
Description	"Install Custom Service"
Status	"Successful" or "Failed"
Optionally Logged Items	<p>Corresponding custom service content name (name) Example) "CS_RM_00108" If unknown, described as "-"</p> <p>A string describing the reason of failure (recorded on failure) If the custom service name specified is already present on the device at the time of instance creation, the following is described: "Application already exists." Other than the above: "RegApp regist failed to management service."</p>

Custom service content registration that is not allowed

Item	Description
Date/Time	When verification of the signature of the Custom service content file fails
User Name	User ID
Description	"Install Custom Service"
Status	"Failed"
Optionally Logged Items	<p>Host name Up to 45 bytes, excluding the null-terminated string</p> <p>Note</p> <ul style="list-style-type: none"> When the host name is unknown, the IP address is recorded, and when both the host name and IP address are unknown, describe as "-". When the custom service content is registered via CPIM, the FQDN of the server from where the CPIM obtains the package is recorded. <p>Custom service name Up to 63 bytes, excluding the null-terminated string When it cannot be obtained (including retrieval error), describe as "-"</p>

Uninstall

Item	Description
Date/Time	When the Uninstall process is ended
User Name	"-"
Description	"Uninstall Custom Service"
Status	"Successful" or "Failed"
Optionally Logged Items	<p>Corresponding custom service content name (name) Example) "CS_RM_00108" If unknown, described as "-"</p> <p>A string describing the reason of failure (recorded on failure) "Failed to delete RegApp from management service."</p>

XCP plugin

Install

Item	Description
Date/Time	When the Install process is ended
User Name	"-"
Description	"Install Embedded Plug-in"
Status	"Successful" or "Failed"
Optionally Logged Items	<p>XCP plugin name If unknown, described as "-"</p>

XCP plugin registration that is not allowed

Item	Description
Date/Time	When verification of the signature of the XCP plugin file fails
User Name	User ID
Description	"Install Embedded Plug-in"
Status	"Failed"
Optionally Logged Items	<p>Host name Up to 45 bytes, excluding the null-terminated string</p> <p>Note</p> <ul style="list-style-type: none"> When the host name is unknown, the IP address is recorded, and when both the host name and IP address are unknown, describe as "-". When the custom service content is registered via CPIM, the FQDN of the server from where the CPIM obtains the package is recorded. <p>Plugin file name If the registration is via CPIM, the download name of the downloaded file Up to 63 bytes, excluding the null-terminated string When it cannot be obtained (including retrieval error), describe as "-"</p>

Uninstall

Item	Description
Date/Time	When the uninstall process is ended
User Name	"_"
Description	"Uninstall Embedded Plug-in"
Status	"Successful" or "Failed"
Optionally Logged Items	<p>XCP plugin name If unknown, described as "-"</p>

Cloning

Export

Item	Description
Date/Time	When the Export process is ended
User Name	User ID
Description	"Export Cloning Data"
Status	"Successful" or "Failed"
Optionally Logged Items	"_"

Import

Item	Description
Date/Time	When the Import process is ended

Item	Description
User Name	User ID
Description	"Import Cloning Data"
Status	"Successful" or "Failed"
Optionally Logged Items	"-"

Falsification Detection

Detecting access and execution of the files that is not allowed by whitelist

Item	Description
Date/Time	When access or execution of the files that is not allowed by whitelist is detected
User Name	"System"
Description	"Illegal Access Detection"
Status	"Successful"
Optionally Logged Items	Access type Example) "write" Accessed file name Accessed program name

Falsification detection and automatic correction upon activation

Falsification detection upon activation

Item	Description
Date/Time	When the falsification detection function is turned ON upon activation
User Name	"System"
Description	"Startup Integrity Check"
Status	"Successful" or "Failed"
Optionally Logged Items	OS Application

Automatic software recovery

Item	Description
Date/Time	When the automatic software recovery function is turned ON
User Name	"System"
Description	"System Software Recovery"
Status	"Successful" or "Failed"

Item	Description
Optionally Logged Items	"_"

2.7 Change /Restoration of Device Configuration

Item	Description
Audit Event ID	0x0701
Logged Events	"Device Config"

Important parts

Replacement of important parts

Item	Description
Date/Time	When replacement of the important part is detected
User Name	"_"
Description	"Important Parts"
Status	"Replaced"
Optionally Logged Items	"_"

Storage

Detection of Storage replacement

Item	Description
Date/Time	When system recognizes Storage
User Name	"_"
Description	"Storage"
Status	"Installed", "Removed" or "Replaced"
Optionally Logged Items	"_"

ROM

Change of ROM version

Item	Description
Date/Time	When difference between the ROM version at the previous activation and the version of ROM now being activated is detected Note <ul style="list-style-type: none">• Timing of detecting the version varies per ROM.• When NVM is initialized, change of ROM version is not recorded.
User Name	User ID
Description	"Software"
Status	"Updated"
Optionally Logged Items	ROM Type Example) "Controller+PS" New Version Previous Version

2.8 Communication Result

Item	Description
Audit Event ID	0x0801
Logged Events	"Communication"

Reliability Communication

Reliability Communication Error

Item	Description
Date/Time	When Reliability Communication Error is detected at the periodical check
User Name	"_"
Description	"Trusted Communication"
Status	"Failed"

Item	Description
Optionally Logged Items	<p>Protocol name “SSL/TLS”, “IPSEC” or “S/MIME”</p> <p>Other end of communication Up to 45 bytes, excluding the null-terminated string Host name or IP address</p> <p>Note</p> <ul style="list-style-type: none"> • When both the host name and IP address are unknown or when it is using S/MIME, describe as “-”. • The example of record in a communication destination is as follows: <ul style="list-style-type: none"> - IPv6: “[3ffe:0200:0000:010a:0000:0000:0000:0001]” - IPv4: “129.249.79.100” - Host name: “host.sharp.co.jp” • A part exceeding 45 bytes is suppressed. <p>Number of errors</p> <p>Reason of errors</p> <p>Note</p> <ul style="list-style-type: none"> • The display example of Optionally Logged Items is as follows: <ul style="list-style-type: none"> - “SSL/TLS, [3ffe:0200:0000:010a:0000:0000:0000:0001],3,Certificate verification failed” - “IPSEC,[3ffe:0200:0000:010a:0000:0000:0000:0001],23,IKE negotiation failed” • When multiple errors occur, they are recorded in one per line. A line cannot exceed 69 bytes. • When more than 50 errors occur, the 51st and later errors are displayed as “+”.

NTP

Reliability Communication Error

Item	Description
Date/Time	When the communication failure with the NTP server is detected
User Name	“System”
Description	“NTP Communication”
Status	“Failed”

Item	Description
Optionally Logged Items	<p>Communication destination Up to 45 bytes, excluding the null-terminated string Host name (FQDN) or IP address</p> <p>Note</p> <ul style="list-style-type: none"> • When both the host name and IP address are unknown, describe as “-”. When host name resolution fails, the host name is recorded. • The example of record in a communication destination is as follows: <ul style="list-style-type: none"> - IPv6: “[3ffe:0200:0000:010a:0000:0000:0000:0001]” - IPv4: “129.249.79.100” - Host name: “host.sharp.co.jp” • A part exceeding 45 bytes is suppressed. <p>Reason of errors For server communication, describe as “NTP negotiation failed” For DNS communication, describe as “jp,dns name resolution failed”</p> <p>Note</p> <ul style="list-style-type: none"> • The display example of Optionally Logged Items is as follows: <ul style="list-style-type: none"> - “[3ffe:0200:0000:010a:0000:0000:0000:0001],NTP negotiation failed” - “ntp.sharp.co.jp,dns name resolution failed” • When multiple errors occur, they are recorded in one per line. A line cannot exceed 69 bytes. • When more than 50 errors occur, the 51st and later errors are displayed as “+”.

EWB(Embedded Web Browser)

Web access from EWB

Item	Description
Date/Time	When accessed from EWB
User Name	User ID
Description	“Web Access”
Status	“Successful”
Optionally Logged Items	Access URL

SHARP

SHARP CORPORATION