

HPE Security ArcSight Connectors

SmartConnector for IBM eServer iSeries Audit Journal File

Configuration Guide

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Revision History

| Date | Description |
|------------|---|
| 11/30/2016 | Updated installation procedure for setting preferred IP address mode. |
| 05/15/2012 | Added new installation procedure. |
| 05/15/2011 | Added information regarding log files requiring a .txt extension. |
| 02/15/2011 | Added information about how to delete logs after processing them. |
| 11/15/2010 | Updated Type 5 journal entry description table. |
| 09/24/2010 | Clarified additional data mappings. |
| 06/25/2010 | Added support for AS/400 V5R3, V5R4, and V6R1. |

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SmartConnector for IBM eServer iSeries Audit Journal File

This guide provides information for installing the SmartConnector for IBM eServer iSeries Audit Journal File (formerly IBM AS/400 Audit Journal File) and configuring the device for audit log event collection. IBM eServer iSeries V5R2, V5R3, V5R4, and V6R1 Type 1 and Type 5 audit journal logs are supported.

Product Overview

The IBM eServer iSeries Audit Journal system is a secure integrated business system designed to run thousands of business applications. The purpose of the Audit Journal system is to record instances of access by subjects to objects, as well as allowing detection of any repeated attempts to bypass the protection mechanism, including any misuses of privileges, thus acting as a deterrent against system abuses and exposing potential security weaknesses in the system.

Configuration

Exported AudJrn Log Files

The SmartConnector for IBM eServer iSeries Audit Journal can parse the information contained in Audit Journal exported files transferred from the iSeries system to the host running the SmartConnector. Typically, iSeries administrators will create a script that will export and transfer the AudJrn files periodically to the host running the SmartConnector. The log files required a .txt extension for the connector to process them.

The SmartConnector will monitor a configurable folder for new files transferred; once a new file is detected, the file is processed and the file name appended with 'processed.' If the parser encounters an unexpected error, the file is put into a 'bad' folder. For example, if the parser defines a token to be of TimeStamp type, but the processed string is not of that type, it results in a java exception and the file will be put in the 'bad' folder. If the processed line is not of the correct format, the file is not appended with 'bad,' but a warning is given in the connector log.

The exported AudJrn file should contain one or more lines (one line per event) with the fixed-size fields described in the tables that follow.

Type 5 Journal Entry Fields

| Offset | Field | | Format | Description |
|--------|--------------------|--------|------------|--|
| 1 | Lenth of Entry | JOENTL | Zoned(5,0) | Total length of the journal entry including the entry length field. |
| 6 | Sequence Number | JOSEQN | Char(20) | Applied to each journal entry. |
| 26 | Journal Code | JOCODE | Char(1) | Always T. |
| 27 | Entry Type | JOENTT | Char(2) | See Audit Journal (QAUDJRN) entry types for a list of entry types and descriptions. |
| 29 | Timestamp of Entry | JOTSTP | Char(26) | Date and time that the entry was made in SAA timestamp format 'yyyy-MM-dd- HH.mm.ss.uuuuuu' |

| Offset | Field | | Format | Description |
|--------|-----------------------------|----------|------------|---|
| 55 | Name of Job | JOJOB | Char(10) | The name of the job that caused the entry to be generated. |
| 65 | User Name | JOUSER | Char(10) | The user profile name associated with the job. |
| 75 | Job Number | JONBR | Zoned(6,0) | The job number. |
| 81 | Program Name | JOPGM | Char(10) | The name of the program that made the journal entry. |
| 91 | Program Library | JOPGMLIB | Char(10) | Name of the library that contains the program that added the journal entry. |
| 101 | Program ASP Device | JOPGMDEV | Char(10) | Name of APS device that contains the program that added the journal entry. |
| 111 | Program ASP Number | JOPGMASP | Zoned(5,0) | Number of the ASP that contains the program that added the journal entry. |
| 116 | Name of Object | JOOBJ | Char(10) | Used for journaled objects. Not used for audit journal entries. |
| 126 | Objects Library | JOLIB | Char(10) | Used for journaled objects. Not used for audit journal entries. |
| 136 | Member Name | JOMBR | Char(10) | Used for journaled objects. Not used for audit journal entries. |
| 146 | Count/RRN | JOCTRR | Char(20) | Used for journaled objects. Not used for audit journal entries. |
| 166 | Flag | JOFLAG | Char(1) | Used for journaled objects. Not used for audit journal entries. |
| 167 | Commit Cycle Identifier | JOCCID | Char(20) | Used for journaled objects. Not used for audit journal entries. |
| 187 | User Profile | JOUSPF | Char(10) | The name of the current user profile. |
| 197 | System Name | JOSYNM | Char(8) | The name of the system. |
| 205 | Journal Identifier | JOJID | Char(10) | Used for journaled objects. Not used for audit journal entries. |
| 215 | Referential Constraint | JORCST | Char(1) | Used for journaled objects. Not used for audit journal entries. |
| 216 | Trigger | JOTGR | Char(1) | Used for journaled objects. Not used for audit journal entries. |
| 217 | Incomplete Data | JOINCDAT | Char(1) | Used for journaled objects. Not used for audit journal entries. |
| 218 | Ignored by APY/RMVJRNCHG | JOIGNAPY | Char(1) | Used for journaled objects. Not used for audit journal entries. |
| 219 | Minimized ESD | JOMINESD | Char(1) | Used for journaled objects. Not used for audit journal entries. |

| Offset | Field | | Format | Description |
|--------|-------------------------------|----------|------------|---|
| 220 | Object Indicator | JOOBJIND | Char(1) | Used for journaled objects. Not used for audit journal entries. |
| 221 | System Sequence | JOSYSSEQ | Char(20) | A number assigned by the system to each journal entry. |
| 241 | Receiver | JORCV | Char(10) | The name of the receiver holding the journal entry. |
| 251 | Receiver Library | JORCVLIB | Char(10) | The name of the library containing the receiver that holds the journal entry. |
| 261 | Receiver ASP Device | JORCVDEV | CHAR(10) | Name of ASP device that contains the receiver. |
| 271 | Receiver ASP Number | JORCVASP | Zoned(5,0) | Number of the ASP that contains the receiver that holds the journal entry. |
| 276 | Arm Number | JOARM | Zoned(5,0) | The number of the disk arm that contains the journal entry. |
| 281 | Thread Identifier | JOTHDX | Hex(8) | Identifies the thread within the process that added the journal entry. |
| 289 | Thread Identifier Hex | JOTHD | Char(16) | Displayable hex version of the thread identifier. |
| 305 | Address Family | JOADF | Char(1) | The format of the remote address associated with the journal entry. |
| 306 | Remote Port | JORPORT | Zoned(5,0) | The port number of the remote address associated with the journal entry. |
| 311 | Remote Address | JORADR | Char(46) | The remote address associated with the journal entry. |
| 357 | Logical unit of work | JOLUW | Char(39) | Used for journaled objects. Not used for audit journal entries. |
| 396 | Transaction ID | JOXID | Char(140) | Used for journaled objects. Not used for audit journal entries. |
| 536 | Reserved | JORES | Char(20) | Used for journaled objects. Not used for audit journal entries. |
| 556 | Null Value Indicators | JONVI | Char(50) | Used for journaled objects. Not used for audit journal entries. |
| 606 | Entry Specific Data Length | ESDLEN | Binary(5) | Length of the entry specific data. |
| 611 | Entry Specific Data | JOESD | variable | Entry specific data. |

An example of a TYPE 5 format event line is as follows (data is not real):

ÀMARY HAD A LITTLE LAMB

Type 1 Journal Entry Field Descriptions for Fixed-Length Fields

| Field | Format |
|--|--------------|
| Entry length (JOENTL) | Zoned (5,0) |
| Sequence number (JOSEQN) | Zoned (10,0) |
| Journal code (JOCODE) | Char (1) |
| Entry type (JOENTT) | Char (2) |
| Date stamp (JODATE) | Char (6) |
| Time stamp (JOTIME) | Zoned (6,0) |
| Job name (JOJOB) | Char (10) |
| User name (JOUSER) | Char (10) |
| Job number (JONBR) | Zoned (6,0) |
| Program name (JOPGM) | Char (10) |
| Object name (JOOBJ) | Char (10) |
| Library name (JOLIB) | Char (10) |
| Member name (JOMBR) | Char (10) |
| Count/relative record number (JOCTRR) | Zoned (10,0) |
| Indicator flag (JOFLAG) | Char (1) |
| Commit cycle identifier (JOCCID) | Zoned (10,0) |
| Incomplete Data (JOINCDAT) | Char (1) |
| Minimized entry specific data (JOMINESD) | Char (1) |
| Reserved field (JORES) | Char (6) |

An example of a TYPE 1 format event line is as follows (data is not real):

Additional Documentation

The AudJrn export files must be sent in a specific format. See the following IBM documentation.

DSPJRN (Display Journal) Command Description

| Version | Path |
|---------|--|
| V5R2 | http://publib.boulder.ibm.com/iseries/v5r2/ic2924/index.htm?info/cl/dspjrn.htm |
| V5R3 | http://publib.boulder.ibm.com/infocenter/iseries/v5r3/index.jsp?topic=/cl/dspjrn.htm |
| V5R4 | http://publib.boulder.ibm.com/infocenter/iseries/v5r4/index.jsp?topic=/cl/dspjrn.htm |
| V6R1 | http://publib.boulder.ibm.com/infocenter/iseries/v6r1m0/index.jsp?topic=/cl/dspjrn.htm |

Layout of Audit Journal Entries

| Version | Path |
|---------|--|
| V5R2 | https://publib.boulder.ibm.com/iseries/v5r2/ic2924/books/c4153026.pdf |
| V5R3 | http://publib.boulder.ibm.com/infocenter/iseries/v5r3/topic/books/sc415302.pdf |
| V5R4 | http://publib.boulder.ibm.com/infocenter/iseries/v5r4/topic/books/sc415302.pdf |
| V6R1 | http://publib.boulder.ibm.com/infocenter/iseries/v6r1m0/topic/rzarl/sc415302.pdf |

Differing Primary Languages

Be aware of the following when using FTP in an environment with different primary languages.

When data is transferred using TYPE E (or EBCDIC), the data is stored as is and therefore will be in the EBCDIC code page of the file from which it came. This can result in the stored file being tagged with an inappropriate CCSID value when the primary language of the two servers is different.

For example, when data in code page 237 is sent using TYPE E to the QSYS.LIB file system on a machine where the file does not exist, the data is stored as is in a new file tagged with CCSID 65535. If the receiving file already exists, then the data will be received as is and tagged with the existing file CCSID which may not be 237.

To avoid incorrect CCSID tagging, you can use the TYPE C CCSID subcommand (for example, TYPE C 237) to specify the CCSID of the data being transferred. When a CCSID is specified on a transfer and the data is written to an existing file, the data is converted to the CCSID of the existing file. If no target file exists before the transfer, a file is created and tagged with the specified CCSID.

In the preceding example, if the target file does not exist, a file with a CCSID of 237 is created on the receiving system. When the target file already exists, the data is converted from CCSID 237 to the CCSID of the target file.

When starting the FTP client, message TCP3C14: Unable to convert data from CCSID &1 to CCSID &2, may be displayed. This occurs if no character conversion is available between the EBCDIC CCSID specified by your job and the ASCII CCSID specified for the this FTP session.

You can change the ASCII CCSID by specifying a value for the coded character set identifier parameter of the STRTCPFTP CL command. CCSID 850, which contains the IBM Personal Computer Latin-1 coded character set, is an ASCII CCSID for which character conversions are available to all valid job CCSID values.

Specify Mapping Tables in the FTP Command

For FTP client, the ASCII mapping tables are specified in the FTP command. For FTP server this is done in the Change FTP Attributes (CHGFTPA) command. To specify the FTP client mapping tables:

- 1 Enter the command FTP.
- 2 Press PF4. The Start TCP/IP FTP screen is displayed.
- 3 Press F10. The prompts for outgoing and incoming ASCII/EBCDIC tables are displayed.

```
Start TCP/IP File Transfer (FTP)
Type choices, press Enter.
Remote system
Internet address . . . .
                                                 1-65533, *DFT
Coded character set identifier
                                   *DFT
                           Additional Parameters
Outgoing EBCDIC/ASCII table . .
                                   *CCSID
                                                 Name, *CCSID, *DFT
 Library . . . . . . . . . . . .
                                                 Name, *LIBL, *CURLIB
Incoming ASCII/EBCDIC table . .
                                   *CCSID
                                                 Name, *CCSID, *DFT
 Library
                                                 Name, *LIBL, *CURLIB
F3=Exit F4=Prompt
                       F5=Refresh
                                    F12=Cancel
                                                 F13=How to use this display
F24=More keys
```

Specify the CCSID (and hence the mapping tables) to be used for the FTP client. When the *DFT value is not changed, the CCSID value 00819 (ISO 8859-1 8 bit ASCII) is used. You may also specify a specific CCSID for both inbound and outbound transfers. The use of CCSIDs is discussed in National Language Support considerations for FTP.



Double-byte character set (DBCS) CCSID values are not permitted for the CCSID parameter on the CHGFTPA command. The DBCS CCSID values can be specified using the TYPE (Specify File Transfer Type) subcommand.

IBM includes mapping support in FTP to ensure compatibility with releases prior to V3R1. Use of mapping tables for incoming TYPE A file transfers results in the loss of CCSID tagging if the target file must be created. IBM strongly recommends that you use CCSID support for normal operations.

Install the SmartConnector

The following sections provide instructions for installing and configuring your selected SmartConnector.



Connector Appliance/ArcSight Management Center supports mounting for Network File System (NFS) and CIFS (Windows) shares. When you install this connector on one of these devices, establish a CIFS mount on the device before adding the connector. Provide this share name during connector configuration. For more information, see **Remote File Systems** in the Connector Appliance or ArcSight Management Center Administrator's Guide.

Prepare to Install Connector

Before you install any SmartConnectors, make sure that the ArcSight products with which the connectors will communicate have already been installed correctly (such as ArcSight ESM or ArcSight Logger). This configuration guide takes you through the installation process with **ArcSight Manager** (encrypted) as the destination.

For complete product information, read the *Administrator's Guide* as well as the *Installation and Configuration* guide for your ArcSight product before installing a new SmartConnector. If you are adding a connector to the ArcSight Management Center, see the *ArcSight Management Center Administrator's Guide* for instructions, and start the installation procedure at "Set Global Parameters (optional)" or "Select Connector and Add Parameter Information."

Before installing the SmartConnector, be sure the following are available:

- Local access to the machine where the SmartConnector is to be installed
- Administrator passwords

Install Core Software

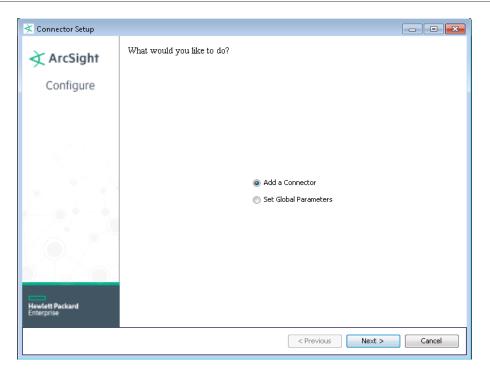
Unless specified otherwise at the beginning of this guide, this SmartConnector can be installed on all ArcSight supported platforms; for the complete list, see the *SmartConnector Product and Platform Support* document, available from the HPE SSO and Protect 724 sites.

- 1 Download the SmartConnector executable for your operating system from the HPE SSO site.
- 2 Start the SmartConnector installation and configuration wizard by running the executable.

Follow the wizard through the following folder selection tasks and installation of the core connector software:

Introduction Choose Install Folder Choose Shortcut Folder Pre-Installation Summary Installing...

3 When the installation of SmartConnector core component software is finished, the following window is displayed:



Set Global Parameters (optional)

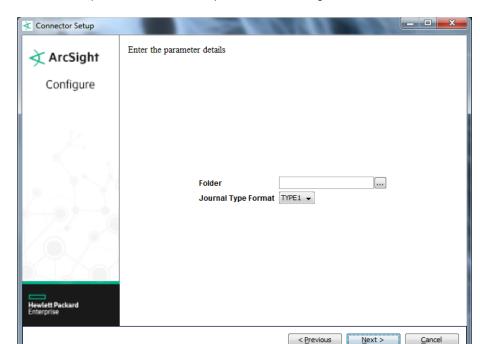
If you choose to perform any of the operations shown in the following table, do so before adding your connector. After installing core software, you can set the following parameters:

| Global Parameter | Setting |
|---------------------------------|--|
| Set FIPS mode | Set to 'Enable' to enable FIPS compliant mode. To enable FIPS Suite B Mode, see the SmartConnector User Guide under "Modifying Connector Parameters" for instructions. Initially, this value is set to 'Disable'. |
| Set Remote Management | Set to 'Enable' to enable remote management from ArcSight Management Center. When queried by the remote management device, the values you specify here for enabling remote management and the port number will be used. Initially, this value is set to 'Disable'. |
| Remote management listener port | The remote management device will listen to the port specified in this field. The default port number is 9001. |
| Preferred IP Version | If both 'IPv4' and 'IPv6' IP addresses are available for the local host (the machine on which the connector is installed), you can choose which version is preferred. Otherwise, you will see only one selection. When both values are present, the initial setting is 'IPv4'. |

After making your selections, click **Next**. A summary screen is displayed. Review the summary of your selections and click **Next**. Click **Continue** to return to the "Add a Connector" window. Continue the installation procedure with "Select Connector and Add Parameter Information."

Select Connector and Add Parameter Information

- 1 Select **Add a Connector** and click **Next**. If applicable, you can enable FIPS mode and enable remote management later in the wizard after SmartConnector configuration.
- 2 Select IBM eServer iSeries Audit Journal File and click Next.



3 Enter the required SmartConnector parameters to configure the SmartConnector, then click Next.

| Parameter | Description |
|---------------------|--|
| Folder Name | Absolute path to the directory containing the audit log files. Note that the connector expects log files to have a .txt extention. |
| Journal Type Format | Select Type 1 or Type 5 audit journal. |

Select a Destination

- 1 The next window asks for the destination type; make sure **ArcSight Manager (encrypted)** is selected and click **Next**. (For information about this destination or any of the other destinations listed, see the *ArcSight SmartConnector User Guide*.)
- 2 Enter values for the Manager Host Name, Manager Port, User and Password required parameters. This is the same ArcSight user name and password you created during the ArcSight Manager installation. Click Next.
- 3 Enter a name for the SmartConnector and provide other information identifying the connector's use in your environment. Click **Next**. The connector starts the registration process.
- 4 The certificate import window for the ArcSight Manager is displayed. Select Import the certificate to the connector from destination and click Next. (If you select Do not import the certificate to connector from destination, the connector installation will end.) The certificate is imported and the Add connector Summary window is displayed.

Complete Installation and Configuration

- 1 Review the Add Connector Summary and click Next. If the summary is incorrect, click Previous to make changes.
- 2 The wizard now prompts you to choose whether you want to run the SmartConnector as a standalone process or as a service. If you choose to run the connector as a stand-alone process, select **Leave as a standalone application**, click **Next**, and continue with step 5.
- 3 If you chose to run the connector as a service, with Install as a service selected, click Next. The wizard prompts you to define service parameters. Enter values for Service Internal Name and Service Display Name and select Yes or No for Start the service automatically. The Install Service Summary window is displayed when you click Next.
- 4 Click **Next** on the summary window.
- 5 To complete the installation, choose **Exit** and Click **Next**.

For some SmartConnectors, a system restart is required before the configuration settings you made take effect. If a **System Restart** window is displayed, read the information and initiate the system restart operation.



Save any work on your computer or desktop and shut down any other running applications (including the ArcSight Console, if it is running), then shut down the system.

For instructions about upgrading the connector or modifying parameters, see the *SmartConnector User Guide*.

Run the SmartConnector

SmartConnectors can be installed and run in stand-alone mode, on Windows platforms as a Windows service, or on UNIX platforms as a UNIX daemon, depending upon the platform supported. On Windows platforms, SmartConnectors also can be run using shortcuts and optional Start menu entries.

If the connector is installed in stand-alone mode, it must be started manually and is not automatically active when a host is restarted. If installed as a service or daemon, the connector runs automatically when the host is restarted. For information about connectors running as services or daemons, see the *ArcSight SmartConnector User Guide*.

To run all SmartConnectors installed in stand-alone mode on a particular host, open a command window, go to $\arrange ARCSIGHT_HOME\current\bin and run: arcsight connectors$

To view the SmartConnector log, read the file $ARCSIGHT_HOME\current\logs\agent.log$; to stop all SmartConnectors, enter Ctrl+C in the command window.

Delete Logs after Processing

After SmartConnector installation, you can access the connector's advanced parameters by editing the agent.properties file located at \$ARCSIGHT_HOME\user\agent. directory in a DOS command window enter:

To delete log files after processing, change the value for the mode parameter from RenameFileTheSameDirectory to DeleteFile. Save the file and restart the connector for your changs to take effect.

Device Event Mapping to ArcSight Fields

The following section lists the mappings of ArcSight data fields to the device's specific event definitions. See the *ArcSight Console User's Guide* for more information about the ArcSight data fields.

Audit Journal TYPE 5 Mappings

| ArcSight ESM Field | Device-Specific Field |
|--------------------------|------------------------|
| Destination Host Name | JOSYNM |
| Destination Process Name | JOPGM |
| Device Custom Number 1 | JONBR |
| Device Custom Number 2 | JOCTRR |
| Device Custom Number 3 | JOCCID |
| Device Custom String 1 | JOESD |
| Device Custom String 2 | JOLIB |
| Device Custom String 3 | JOMBR |
| Device Custom String 4 | JOINCDAT |
| Device Custom String 5 | JOMINESD |
| Device Event Category | JOENTT |
| Device Event Class ID | JOCODE plus JOENTT |
| Device Host Name | JOSYNM |
| Device Product | 'AS/400' |
| Device Receipt Time | JOTSTP or JODATEJOTIME |
| Device Severity | JOCODE |
| Device Vendor | 'IBM' |
| External ID | JOSEQN |
| File Name | JOOBJ |
| Name | JOJOB |
| Source Address | JORADR |
| Source Port | JORPORT |
| Source User Name | JOUSER or JOUSPF |
| Transport Protocol | JOADF |

Audit Journal TYPE 1 Mappings

| ArcSight ESM Field | Device-Specific Field | |
|--------------------------|-----------------------|--|
| Destination Process Name | JOPGM | |
| Device Custom Number 1 | JONBR | |
| Device Custom Number 2 | JOCTRR | |
| Device Custom Number 3 | JOCCID | |
| Device Custom String 1 | JOENTT plus JOESD | |
| Device Custom String 2 | JOLIB | |

| ArcSight ESM Field | Device-Specific Field |
|------------------------|-----------------------|
| Device Custom String 3 | JOMBR |
| ŭ | |
| Device Custom String 4 | JOINCDAT |
| Device Custom String 5 | JOMINESD |
| Device Event Category | JOENTT |
| Device Event Class Id | JOCODE |
| Device Product | 'AS/400' |
| Device Receipt Time | JODATEJOTIME |
| Device Severity | JOCODE |
| Device Vendor | 'IBM' |
| External ID | JOSEQN |
| File Name | JOOBJ |
| Name | JOJOB |
| Source User Name | JOUSER |

Job Error Codes (Device Event Class ID/Message)

| Code | Message |
|------|--|
| AD | A change was made to the auditing attribute. |
| AF | All authority failures. |
| AP | A change was made to program adopt. |
| AU | Attribute changes.CA,Changes to object authority (authorization list or object). |
| CA | Changes to object authority (authorization list or object). |
| CD | A change was made to a command string. |
| СО | Create object. |
| CV | Connection verification. |
| CP | Create, change, restore user profiles. |
| CQ | A change was made to a change request descriptor. |
| CU | Cluster operation |
| CY | Cryptographic configuration |
| DI | Directory services |
| DO | All delete operations on the system. |
| DS | DST security officer password reset. |
| EV | Environment variable |
| GR | General purpose audit record |
| GS | A descriptor was given. |
| IM | Intrusion monitor. |
| IP | Inter-process communication event. |
| IR | IP rules actions |
| IS | Internet security management |
| JD | Changes to the USER parameter of a job description. |
| JS | A change was made to job data. |
| KF | Key ring file name. |

| Code | Message |
|----------|---|
| LD | A link, unlink, or lookup operation to a directory. |
| ML | A change was made to office services mail. |
| NA | Changes to network attributes. |
| ND | Directory search violations. |
| NE | End point violations. |
| OM | Object management change. |
| OR | Object restored. |
| OW | Changes to object ownership. |
| 01 | Single optical object access. |
| O2 | Dual optical object access. |
| O3 | Optical volume access. |
| PA | Changes to programs (CHGPGM) that will now adopt the owner's authority. |
| PG | Changes to an object's primary group. |
| PO | A change was made to printed output. |
| PS | Profile swap. |
| PW | Passwords used that are not valid. |
| RA | Restore of objects when authority changes. |
| RJ | Restore of job descriptions that contain user profile names. |
| RO | Restore of objects when ownership information changes. |
| RP | Restore of programs that adopt their owner's authority. |
| RQ | A change request descriptor was restored. |
| RU | Restore of authority for user profiles. |
| RZ | The primary group for an object was changed during a restore operation. |
| SD | A change was made to the system directory. |
| SE | Changes to subsystem routing. |
| SF | A change was made to a spooled output file. |
| SG | Asynchronous signals |
| SK | Secure sockets connection |
| SM | A change was made by system management. |
| SO | A change was made by server security. |
| ST | A change was made by system tools. |
| SV | Changes to system values. |
| VA | Changes to access control list. |
| VC | Connection started or ended. |
| VF | Server files were closed. |
| VL | An account limit was exceeded. |
| VN | A logon or logoff operation on the network. |
| VO | Actions on validation lists. |
| VP | A network recovered was accessed |
| VR Ve | A network resources was accessed. |
| VS | A server session started or ended. |
| VU | A network profile was changed. |
| VV | Service status was changed. |

| Code | Message |
|------|--|
| X0 | Network authentication. |
| X1 | Reserved for future audit entry. |
| X2 | Reserved for future audit entry. |
| X3 | Reserved for future audit entry. |
| X4 | Reserved for future audit entry. |
| X5 | Reserved for future audit entry. |
| X6 | Reserved for future audit entry. |
| X7 | Reserved for future audit entry. |
| X8 | Reserved for future audit entry. |
| X9 | Reserved for future audit entry. |
| XD | Directory server extension. |
| YC | A change was made to DLO change access. |
| YR | A change was made to DLO read access. |
| ZC | 9 A change was made to object change access. |
| ZM | An object was accessed using a method. |
| ZR | A change was made to Object read access. |
| AA | User-specified. |
| XP | Internal entry. |
| RD | Delete receiver. |
| RS | Receiver saved. |