Oracle® Communications Performance Intelligence Center

Audit Viewer Administration Guide

Release 10.3.0

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Oracle® Communications Performance Intelligence Center Audit Viewer Administration Guide, Release 10.3.0

CAUTION: Use only the guide downloaded from Oracle Help Center.

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Chapter 1: About this Help Text

Overview

The Audit Viewer Tool is part of the Management Application Toolbox Configuration Library. It is an application that monitors the activities of logged-in users and displays records of those activities. Only users with roles nspAdmin and nspManager have access to this application.

Scope and Audience

This manual provides information about the Audit Viewer's graphic interface (GUI) and is designed around performing common tasks to efficiently and effectively monitor application and user's activities as well as alarm status. Take a few minutes to browse through these tasks and become acquainted with the layout of this guide to become familiar with the headings and subheadings that allow you to find the information you need.

General Information

You can find general information about Oracle® Communications Performance Intelligence Center, such as product overview, list of other guides, workstation requirements, login and logout procedures, user preference settings, in the Quick Start Guide. This document is available from the Portal menu or can be downloaded from Oracle Help Center (OHC).

Chapter 2: Introducing Audit Viewer

About Audit Viewer - Overview

Audit Viewer is a specific-purpose application which is part of the Management Application Toolbox. This system allows the nspAdmin and nspManager to view logged user activities. The tool stores user-audit data for the previous four months.

Audit Viewer Functionality

Audit Viewer supports the following functions:

- Listing audit records - The records contain date and time, user login, Management application, problem severity and message information.
- Exporting audit records - Displayed audit logs are exportable in CSV and other formats.

Chapter 3: Getting Started With Audit Viewer

Accessing and logging into Management Application

To access and log into Management Application, follow these steps:

1. Open your Web browser.
2. In the Address bar, type the following **Uniform Resource Locator (URL)** for Management Application: http://*management_server_IP*/nsp , where the management_server_IP is the IP address of Management server.

Note: Management Application only supports versions of IE 7.0 or later and Firefox 3.6 or later. Before using Management Application, turn off the browser pop up blocker for the Management Application site.

The Management Application login screen opens.

Note: Before you can start Management Application, you must first have a user id and password assigned to you by your system administrator.

3. Type your **username** assigned to you in the *Username* field.
4. Type your **password** in the *Password* field.
5. Click **OK.** The Application portal opens.
6. Click on the Audit Viewer icon to open the application.

Opening Audit Viewer

Click on the ***Audit Viewer icon.*** The Audit Viewer home page opens with a list of audit records shown below.

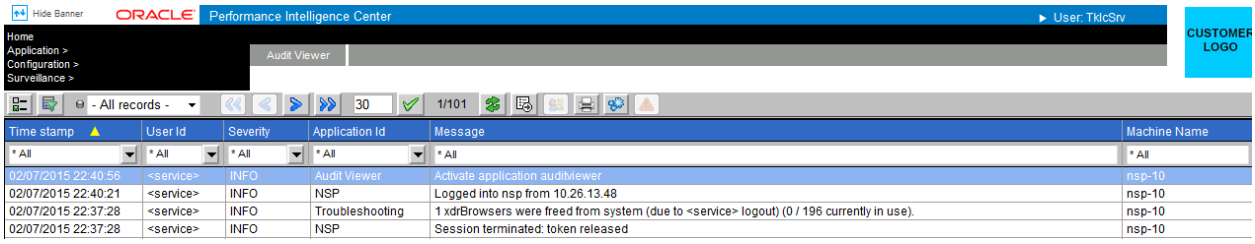

Figure 1: Audit Viewer Home Page

The *Audit Viewer* home page shown in figure below consists of two parts, a table of logged user activities and a tool bar. The tool bar contains icons for managing the display of groups of records in the table. The Auditviewer table contains the logged records of last 24 hours of user activity. User can view older records by *Using the Execute Query Dialog to filter Audit Viewer Records.*

Note: Do not use the Function Keys (F1 through F12) when using the Management Application. Function keys work in unexpected ways. For example, the F1 key will not open Management Application help but

will open help for the browser in use. The F5 key will not refresh a specific screen, but will refresh the entire session and will result in a loss of any entered information.

User Activity Table

The table consists of eight headings:

- Log Time stamp - The time and date the log record was generated by the Management Application system.
- User Id - Name of user defined in Management Application database
- Log Severity - Relative importance of the log record: Fatal, Error, Warn, Info and Debug.
- Application ID - Performance Intelligence Center system component for example Management Application
- Message - Log record information line.
- Machine Name - Network ID of the affected server.

The default display order for records is based on *Log Time stamps* from most-recent-to-oldest. Clicking the column heading reverses the sort order. Selecting the column heading again toggles back to the default order. Other columns also can be used as sort criteria. Clicking on a column heading the first time puts the records in alphabetical order. Clicking again toggles to the reverse alphabetical order. In all cases an arrowhead symbol in one of the column headings defines the column which controls the sort and whether the sort is first-to-last or last-to-first.

Tool Bar

The tool bar contains icons used to scroll up and down through lists of records larger than the display can accommodate in a single page, to sort or filter records in the table according to various criteria, and to count records on demand.

The toolbar has the following function buttons:

 Execute Query - enables you to create and execute queries on the data records.

 Export - enables you to export sessions using a variety of formats.

 Refresh -enables you to refresh the current screen to see all recent changes.

 First Page**-** clicking this button opens the first page of logs.

 Previous Page – clicking this button opens the previous page of logs.

 Next Page - clicking this button opens the next page of logs.

 Last Page - clicking this button opens the last page of logs.

 Set Size – use this button to set the session list size from 10-500 per page.

 Message Details – use this button to see the whole message after selecting the row whose message needs to be displayed to user

Chapter 4: Filtering Audit Viewer Records and Viewing Message Details

Overview

This chapter covers:

- The method for selecting subsets of *Audit Viewer* records using *Quick filters* in the tool bar.
- The method for selecting subsets of *Audit Viewer* records using Filter in the tool bar.

Using Quick filters to select Audit Viewer Records

The fastest way to locate and display records is to use the *Quick filters* option in the toolbar. The figure below shows, there are three criteria: User Id, Severity, Application Id. Any criterion or combination of criteria can be used for the search.

Figure 2: Quick Filters Tool Bar Option

1. Select the **application criterion.**

The *Application* window in the tool bar is a pulldown menu for selecting the Management application whose user activities you want to view. The figure below shows the application choices.

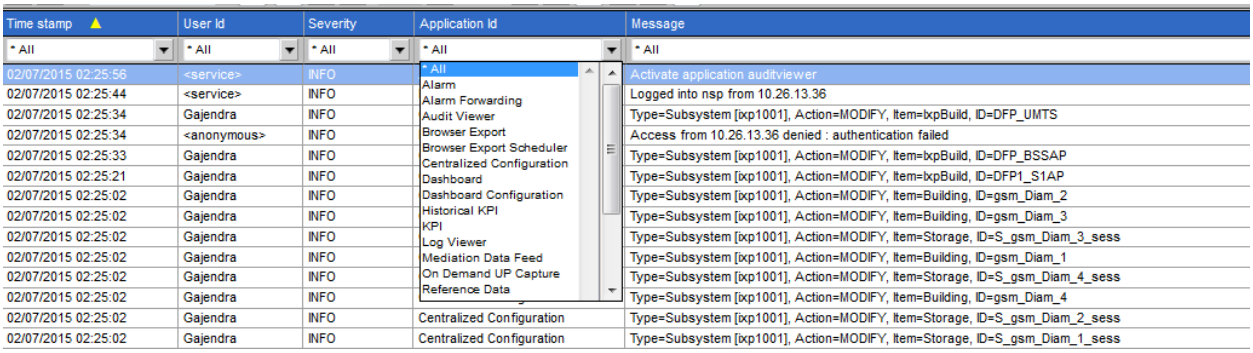

Figure 3: Application Window

2. Select **severity criterion.**

The *Severity* window's pulldown menu identifies the priority to use for the search. The figure below shows the options.

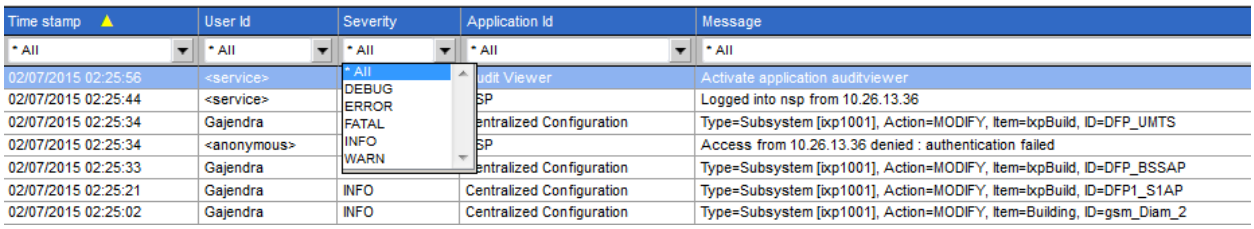

Figure 4: Severity Window

The hierarchy of severity is in the following order - top to bottom as follows:

a) Fatal
b) Error
c) Warning
d) Info
e) Debug

3. Select **user criterion.**

The *User* window pull down menu lists the users eligible to be filtering criteria. The figure below shows an example of user criterion.

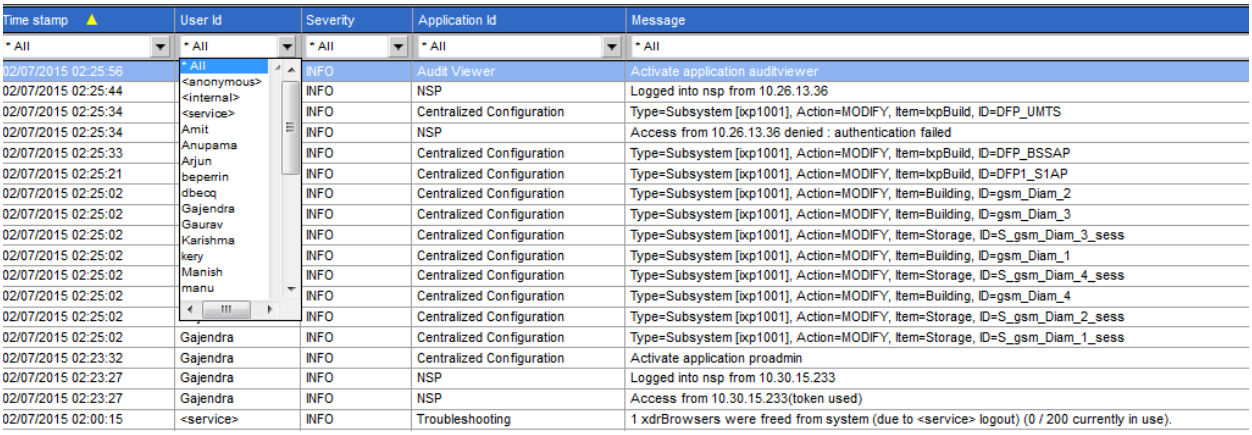

Figure 5: User Window

Note: You can select *any combination of the three* options in each pull down menu and apply filters on the records to be seen in the screen.

The figure below shows a result based on all three criteria. The *green field* in the tool bar indicates that filtering is active. The number of records per screen and the total number of records in the filtered list appear in the upper row of the tool bar.

Time stamp	User Id	Severity	Application Id	Message
* All	<service>	INFO	Troubleshooting	* All
02/07/2015 02:00:15	<service>	INFO	Troubleshooting	1 xdrBrowsers were freed from system (due to <service> logout) (0 / 200 currently in use).
02/07/2015 02:00:15	<service>	INFO	Troubleshooting	Session terminated: token released
02/07/2015 02:00:15	<service>	INFO	Troubleshooting	Application protrace released
02/07/2015 00:59:10	<service>	INFO	Troubleshooting	Query result export to TXT finished. Export id: 20
02/07/2015 00:59:10	<service>	INFO	Troubleshooting	Export Status: Completed. xDRs read: 500; PDUs read: 0; Exported: 500
02/07/2015 00:59:10	<service>	INFO	Troubleshooting	[Oracle] Session query: SELECT D1.TimeTag, D1.StartDate_, D1.TimeTagMS_, D1.StartDateMS_, D1.Durati.....
02/07/2015 00:59:09	<service>	INFO	Troubleshooting	[Oracle] Session query: SELECT D1.TimeTag, D1.StartDate_, D1.TimeTagMS_, D1.StartDateMS_, D1.Durati.....
02/07/2015 00:59:09	<service>	INFO	Troubleshooting	[Oracle] Session query: SELECT D1.TimeTag, D1.StartDate_, D1.TimeTagMS_, D1.StartDateMS_, D1.Durati.....

Figure 6: Filtered List Using All Three Criteria

Using the Execute Query Dialog to filter Audit Viewer Records

You can also filter records based on key criteria of timestamp using the execute query functionality. To filter records, perform the following steps:

1. Click the **execute query** button, the query setting dialog opens in Figure below

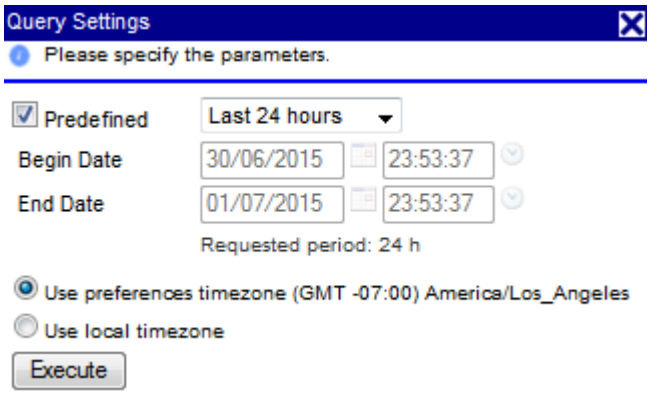

Figure 7: Query Setting Dialog Box

2. If user want to see the records for last few minutes or hours then user can select this option by selecting PREDEFINED checkbox then the dropdown associated to it becomes active.

3. The dropdown contains various items like Last 5 minutes, Last 10 minutes etc. When user select any of this item records which are logged for that time are displayed to user. Last 24 hours is default selected in the drop-down.

While selecting the predefined option, the list which appears in the drop down is shown in fig8.

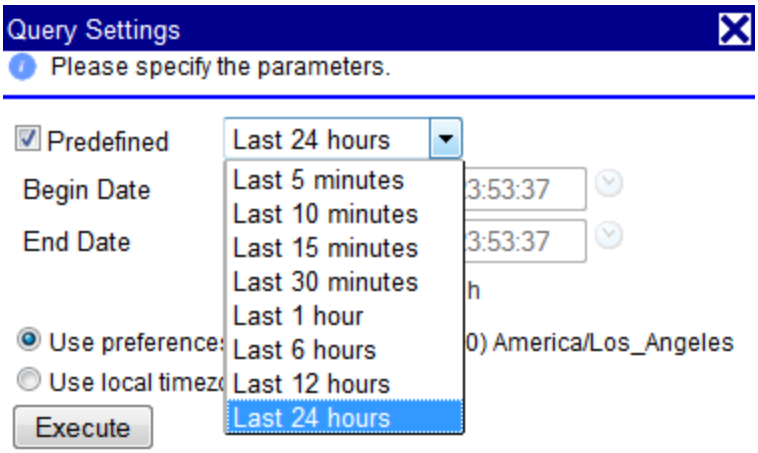

Figure 8: Dropdown present in Query Setting Dialog Box

4. User can himself select the begin date and end date from the dialog box. The records logged between this time-period are shown on the screen.

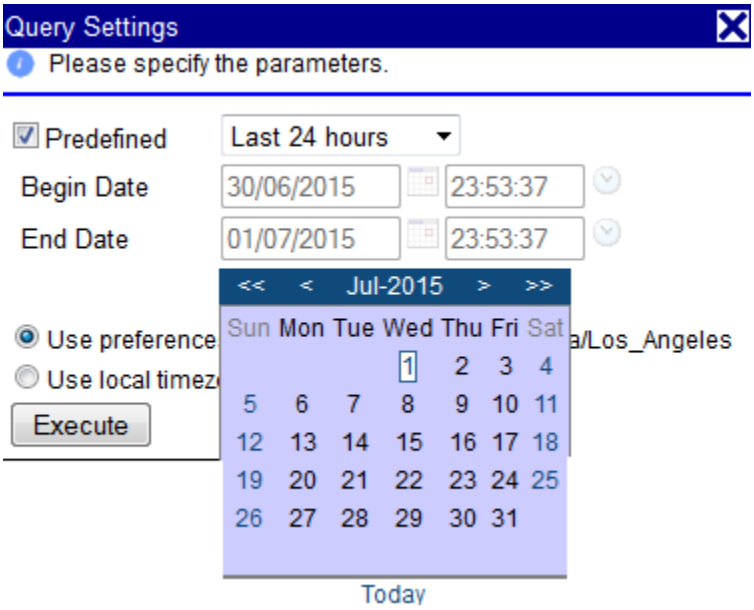

Figure 9: Selecting Date and Time for Begin

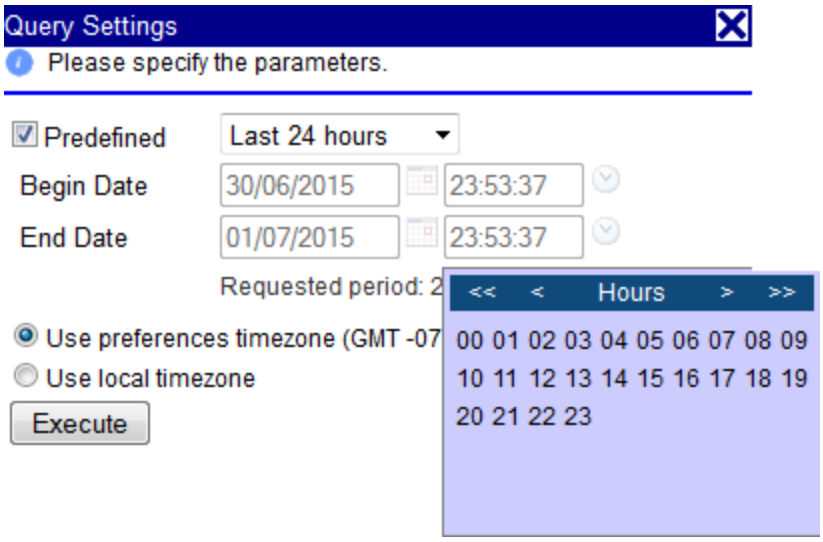

Figure 10: Selecting Date and Time for Begin

5. User can select between the User preferences time zone and local time zone by selecting any of the two radio buttons.

6. When user clicks on the Execute Button the query is executed and list is populated with records as desired by the end user.

Viewing Message Details

In message column of the Audit Viewer logs list is the column which depicts the details of the message associated with the log. This message can be very long sometime. Hence long messages are truncated and followed by dots. If user wants to see the details of such messages then he needs to select that row in the table and then click Message Details button.

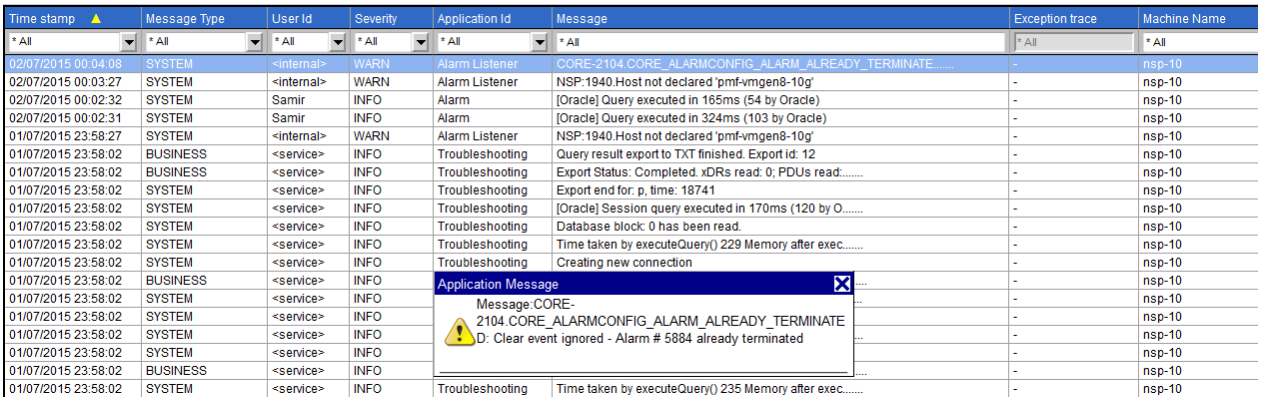

Figure 11: Message Details Dialog

For rows in which complete message is visible in the row, Message Details button remains inactive.

Chapter 5: Viewing User Activity

About tracking user Activities

The following table provides information for tracking user activity using Audit Viewer. The tables show the following information for each message tracked by the user:

- Application
- Component
- Functionality
- Message

Application	Component	Functionality	Message
Alarm Viewer	Map	List, Execute	Map # <ID> opened Map # <ID> closed
	Alarm list	Terminate an alarm	Cleared alarmID=<ID>
			Alarm #<ID> acknowledged
			Alarm #<ID>unacknowledged
			Alarm #<ID> commented
			Alarm #<ID> terminated
			Alarms of managed object #<MOD_ID> removed
			Comment #<COMMENT_ID> updated
			Failed to terminate alarms on application server
			Failed to acknowledge alarms on application server
			Failed to comment alarms on application server!
Troubleshooting	Query List	List	List of queries = Query list retrieved for network viewID = <>
		Create	QueryID=<>, Name=<> created
		Modify	QueryID=<>, Name=<> modified
		Delete	QueryID=<> deleted

	xDR Browsing	Start	<query name> executed on networks views IDs=<> Names=<>
	Trace	Start	Trace started on network views IDs=<> Names=<>
		Export	User exported trace in HTML format
			User exported trace in binary format
		Import	User imported trace
SS7 Surveillance	NA	Start	[Table/Chart] monitoring started on [link status/state/...] counts on following elements: []
		Reset	User reset elements with ids: []
		Export	User exported monitoring data in CSV format
			User exported monitoring data in PNG format
		Import	User imported trace
SS7 Surveillance	NA	Start	[Table/Chart] monitoring started on [link status/state/...] counts on following elements: []
		Reset	User reset elements with ids: []
		Export	User exported monitoring data inCSV format
			User exported monitoring data in PNG format

Table 1 : User's Activity for Application, Component and Function

Application	Component	Functionality	Message
Alarm Configuration	ProAlarm Configuration	All	Activate application ALRMapconfig
Alarm Forwarding	Filter	Add, Modify, Remove	Alarm forwarding filtering rules changed
	Destination	Configure	Alarm forwarding destination settings changed
xDR Browser	Schedule	Stop	-XDR EXPORT- : Stops scheduled export : <JOB_NAME> --> output file : <FILENAME>
		Start	-XDR EXPORT- : Starts scheduled export : <JOB_NAME> --> output file : <FILENAME>
		Edit, Add, Delete	Edit the task <JOB_NAME> (<JOB_GROUP>)
KPI	Stat Configuration	Create	Configuration <NAME> (#<ID>) created
		Update	Configuration <CONFIG_NAME> (#<CONFIG_ID>) modified (corner filter created)
		Update (corner	Configuration <NAME> (#<ID>) modified (corner filter created)
		filter)	Configuration <NAME> (#<ID>) modified (corner filter updated)
		Update (columns)	Configuration <NAME> (#<ID>) modified (column filter "+_columnName+" created)
			Configuration <NAME> (#<ID>) modified (column filter <COLUMN_NAME> removed)
			Configuration <NAME> (#<ID>) modified (order of column filters)
		Update (lines)	Configuration <NAME> (#<ID>) modified (line filter "+_lineName+" created)
			Configuration <NAME> (#<ID>) modified (line filter "+_lineName+" updated)
			Configuration <NAME> (#<ID>) modified (line filter "+lineName+" removed)
			Configuration <NAME> (#<ID>) modified (order of line filters)
		Update (alarms)	Alarm on configuration <NAME> (#<ID>) for line <LINE_NAME>and column

Application	Component	Functionality	Message
			<COLUMN_NAME>created
			Alarm on configuration <NAME> (#<ID>) for line <LINE_NAME>and column
			<COLUMN_NAME>updated
			Alarm on configuration <NAME> (#<ID>) for line <LINE_NAME>and column
			<COLUMN_NAME>removed
		Delete	Configuration <NAME> (#<ID>) removed
	Configuration	Set	Instance of DSE configuration <NAME> (#<ID>) on session <SESSION_NAME> created
	applying		
		Activate	Instance of DSE configuration <NAME> (#<ID>) on session
			<SESSION_NAME>activated
		Deactivate	Instance of DSE configuration <NAME> (#<ID>) on session
			<SESSION_NAME>deactivated
		Delete	Instance of DSE configuration <NAME> (#<ID>) on session
			<SESSION_NAME>removed
	Schedule	NA	Creating Historical Task
			Getting Historical Task status
			Deleting Historical Task
Dashboard	Dashboard view	List, Execute	Display dashboard <NAME> (#<ID>)
Dashboard Configuration	Dashboard	Create,	Dashboard <NAME> (#<ID>) created
		Remove,	Dashboard <NAME> (#<ID>) removed
		Update	Dashboard <NAME> (#<ID>) updated
			Panel <NAME> (#<ID>) added to Dashboard

Application	Component	Functionality	Message
			#<DASHBOARD_ID>
			Panel <NAME> (#<ID>) updated
			Panel <NAME> (#<ID>) removed
			KPI <NAME> (#<ID>) added to Panel #<PANEL_ID>
			KPI <NAME> (#<ID>) updated
			KPI <NAME> (#<ID>) removed
Mediation Data Feed Export	NA	NA	DataFeed <feedId> created. Name=<feedName>, Session Name=<feedSessionName>, Start Time=<feedStartTime>,Filter Name=<feedFilterName>, Period Length=<feedPeriodLength>
			DataFeed <feedId> modified. Name=<feedName>, Session Name=<feedSessionName>, Start Time=<feedStartTime>,Filter Name=<feedFilterName>, Period Length=<feedPeriodLength>
			DataFeed <feedId> deleted. Name=<feedName>, Session Name=<feedSessionName>, Start Time=<feedStartTime>,Filter Name=<feedFilterName>, Period Length=<feedPeriodLength>
			DataFeed <feedId> activated. Name=<feedName>, Session Name=<feedSessionName>, Start Time=<feedStartTime>,Filter Name=<feedFilterName>, Period Length=<feedPeriodLength>
			DataFeed (#<feedId>) deactivated. Name=<feedName>, Session Name=<feedSessionName>, Start Time=<feedStartTime>,Filter Name=<feedFilterName>, Period Length=<feedPeriodLength>
Centralized Configuration Manager	Network	NA	Node <NAME> (#<ID>) created
			Node <NAME> (#<ID>) updated
			Node #<ID> removed
			LegacySS7 SP <NAME> (#<ID>) with OID=<OID>
			LegacySS7 SP <NAME> (#<ID>) with OID=<OID>
			AssociateSS7 SP to new node <NAME> (noCLLI defined)

Application	Component	Functionality	Message
			AssociateSS7 SP to already existing node <NAME>
			AssociateSS7 SP to new Eagle node <CLLI>
			Negative Point code <PC>
			AssociateSS7 SP with Subsystem
			SS7 SP <NAME> created
			SS7 SP updated : node discovered name is <NAME>
			SS7 SP <NAME> updated
			NgSS7 SP : node discovered name is <NAME>
			NgSS7 SP <NAME> updated
			SS7 SP #<ID> deleted
			LegacylMF Linkset <NAME> (#<ID>) with OID :<OID> updated
			Legacy PMF Linkset <NAME> (#<ID>) with
			OID :<OID> updated
			MSW <NAME> (#<ID>) with OID :"
			Linkset <NAME> (#<ID>) removed
			LegacyIMF Linkset <NAME> (#<ID>)
			removed
			Legacy PMF Linkset <NAME> (#<ID>)
			removed
			Linkset <NAME> (#<ID>) removed
			Link <NAME> associated to Site <SITE_NAME>
			Link <NAME>" with discovered name='<DICOVERED>
			Associated the link with application subsystem
			Eagle Linkset is already assigned to anIMF for monitoring
			Monitored links exceeds Max number of links allowed

Application	Component	Functionality	Message
			Eagle card <CARD> and port : <PORT>
			Eagle card #<CARD_ID> removed
			LegacySS7 Link <NAME> (#<ID>) with
			OID=<OID> removed
			LegacySS7 Link <NAME> (#<ID>) with OID=<OID> removed
			Monitored links exceeds Max number of links allowed
			SS7 Link <NAME> updated (discovered
			name=<DISCOVERED>
			SS7 Link <NAME> (#<ID>) removed
			SS7 SP <NAME> (#<ID>) removed
			SS7 Link #<LINK_ID> removed
			GPRSSP <NAME> (#<ID>) with OID=<OID> removed
			GPRSSP <NAME> with OID=<OID> updated
		Update (columns)	Configuration <NAME> (#<ID>) modified (column filter "+_columnName+" created)
			Configuration <NAME> (#<ID>) modified (column filter <COLUMN_NAME> removed)
			Configuration <NAME> (#<ID>) modified (order of column filters)
		Update (lines)	Configuration <NAME> (#<ID>) modified (line filter "+_lineName+" created)
			Configuration <NAME> (#<ID>) modified (line filter "+_lineName+" updated)
			Configuration <NAME> (#<ID>) modified (line filter "+lineName+" removed)

Application	Component	Functionality	Message
			Configuration <NAME> (#<ID>) modified (order of line filters)
		Update (alarms)	Alarm on configuration <NAME> (#<ID>) for line <LINE_NAME>and column <COLUMN_NAME>created
			Alarm on configuration <NAME> (#<ID>) for line <LINE_NAME>and column <COLUMN_NAME>updated
			Alarm on configuration <NAME> (#<ID>) for line <LINE_NAME>and column <COLUMN_NAME>removed
		Delete	Configuration <NAME> (#<ID>) removed
	Configuration applying	Set	Instance of DSE configuration <NAME> (#<ID>) on session <SESSION_NAME> created
		Activate	Instance of DSE configuration <NAME> (#<ID>) on session <SESSION_NAME>activated
		Deactivate	Instance of DSE configuration <NAME> (#<ID>) on session <SESSION_NAME>deactivated
		Delete	Instance of DSE configuration <NAME> (#<ID>) on session <SESSION_NAME>removed
	Schedule	NA	Creating Historical Task
			Cancelling Historical Task
			Deleting Historical Task
			GPRSSP #<ID> removed
			IP SP <NAME> (#<ID>) with OID=<OID> removed
			IP SP <NAME> with OID=<OID> updated

Application	Component	Functionality	Message
			IP SP #" + spId + " removed
			GbLink <NAME> (#<ID>) with OID=<OID> removed
			GbLink <NAME> with OID=<OID> updated
			GbLink Assignment forLink <NAME> (#<ID>)
			SS7 Link Assignment for <NAME> (#<ID>)
			SS7 Link <NAME> (#<ID>) with OID=<OID> removed
			SS7 Link <NAME> (#<ID>) with OID=<OID> updated
			GbLink <NAME> (#<ID>) with OID=<OID> removed
			GbLink <NAME> (#<ID>) with OID=<OID> updated
			GbLink #<LINK_ID> removed
			PDU Session #<ID> created
			PDU Session for link #<LINK_ID> removed
			PDU Session for linkset #<LINKSET_ID> and link #<LINK_ID> removed
			SP #<ID> upgraded

Application	Component	Functionality	Message
			Linkset #<ID> upgraded
			Link #<ID> upgraded
	View	NA	Session Network view <NAME> (#<ID>) created
			Link Network view <NAME> (#<ID>) created
			Network view #" <ID> removed
	Reference Data	Import	Invalid Direction category elements Data.
			Invalid Q850ISUP parameter Data
			Invalid Q708 Area Code parameter Data
			Invalid Q708 Country Code parameter Data
			Invalid Q850 parameters Data
			Invalid carrier network elements Data
			Invalid carrier category elements Data
			InvalidNPA Configuration elements Data
	System	NA	Application <TYPE> <NAME> (#<ID>) created
			DB Link <NAME>created
			Connection <NAME>created
			Host <NAME> (#<ID>) created

Application	Component	Functionality	Message
			Site <NAME> (#<ID>) created
			Application <TYPE> <NAME> (#<ID>) removed
			Host (#<ID>)removed
			Site (#<ID>) removed
			Application <TYPE> <NAME> (#<ID>) updated
			Host (#<ID>) updated
			Site <NAME> (#<ID>) updated
			RID group #<ID> removed
	XMF	NA	[XMF] ComboPDU filter <NAME>(#<ID>) created.
			[XMF] DlciPDU filter <NAME>(#<ID>) created.
			[XMF]GT PDU filter <NAME>(#<ID>) created.
			[XMF]IP PDU filter <NAME>(#<ID>) created.
			[XMF]PC PDU filter <NAME>(#<ID>) created.
			[XMF] Port filter <NAME>(#<ID>) created.
			[XMF] RawPDU filter <NAME>(#<ID>) created.
			[XMF]SSN PDU filter <NAME>(#<ID>) created.
			[XMF] VlanPDU filter<NAME>(#<ID>) created.
			[XMF]PDU Filter <NAME>(#<ID>) removed.
			[XMF] ComboPDU filter <NAME>(#<ID>) updated.
			[XMF] DlciPDU filter <NAME>(#<ID>) updated.
			[XMF]IP PDU filter <NAME>(#<ID>) updated.
			[XMF]PC PDU filter <NAME>(#<ID>)
			updated.

Application	Component	Functionality	Message
			[XMF] PortPDU filter <NAME>(#<ID>) updated.
			[XMF] RawPDU filter <NAME>(#<ID>)
			updated.
			[XMF]SSN PDU filter <NAME>(#<ID>)
			updated.
			[XMF] VlanPDU filter <NAME>(#<ID>)
			updated.
			[XMF] Pmf Card (#<ID>) with application name <NAME> and location <LOCATION> created.
			[XMF] PMF Card (#<ID>) updated with State <STATE>.
			[XMF] PMF Card #<ID> removed.
			[XMF] Port #<ID> and associated links created.
			[XMF] Port #<ID> and associated links removed.
			[XMF] E1T1 Port #<ID> removed.
			[XMF] Q752 counter #<NAME> modified.
			[XMF] EagleOAM Alarm number <NUMBER> disabled.
			[XMF] EagleOAM Alarm number <NUMBER> enabled.
			[XMF] Q752 Alarm <NAME> modified with AutoClear <VALUE>.
			[XMF] Q752 Alarm <NAME> is modified with
			Enable <ENABLE VALUE>.
			[XMF] Parameter (Long) <NAME> saved.
			[XMF] Parameter (String) <NAME> saved.
			[XMF] Parameter (Long) <NAME> removed.
			[XMF] Parameter (String) <NAME> removed.
			[XMF] Parameter <NAME> created.

Application	Component	Functionality	Message
			[XMF] Parameter <NAME> modified.
			[XMF] Parameter <NAME> removed.
			E1T1 ports for card #<ID> modified.
			E1T1 ports # <PORT NUMBERS> created.
			E1T1 ports for card #<ID> modified.
			Monitoring group <NAME>(#<ID>) created.
			Monitoring group <NAME> (#<ID>) updated.
			Monitoring group #<ID> removed.
	IXP	Discover	Error during XdrBuilder <NAME> <VERSION> discovery.
			XdrBuilder <NAME> <VERSION> discovered by user <USERNAME> during builder discovery.
			Deleted XDR Builder <NAME>.
			Cannot delete XDR Builder having id <ID>.
		Configure	Error while creating Ixp Config Migration Log forIXP - <SUBSYSTEM NAME>.

Application	Component	Functionality	Message
			Builder Parameter - Pdu Datasource -<STREAM NAME> is not routed to any xMF.
			NoHost IP found in Pdu DTS stream -<STREAM NAME>

Table 2 : User Activity Chart - Centralized Configuration Manager

Application	Component	Functionality	Message
Security	User	Create	User<USER_ID> created
		Update	User < USER_ID > updated
		Remove	User < USER_ID > removed
		Logout	Tokens invalidated by administrator.
	Role	Create	Role<ROLE_ID> created
		Update	Role < ROLE_ID > updated
		Remove	Role < ROLE_ID > removed
	Profile	Create	Profile <PROFILE_ID> created
		Update	Profile <PROFILE_ID> updated
		Remove	Profile <PROFILE_ID> removed
	Objects	Owner	Change object owner from <OLD_OWNER> to <NEW_OWNER>
			Change owner to <OWNER> for <N> object(s)
	Other actions	Access level	Access level set to<ACCESS_LEVEL>
		Purchased token	Purchased token set to <TOKEN_LIMIT>
		Security notice	Security warning text at login modified
NSP Core	NA	Login	Logged into nsp Access denied : No more available token Access denied : Too many tokens used by this user

Application	Component	Functionality	Message
			Access denied : SERVICE access level required Access denied : RESTRICTED access level required Access denied : logout by administrator
		Logout	Logout requested
		Navigate	Activate application <APPLICATION_NAME> Application <APPLICATION_NAME> released

Table 3 : User Activity – Security

Chapter 6: Exporting Audit Records

Overview

This chapter provides a procedure for exporting audit records from the Management Application to remote systems in one of five selectable formats: CSV, HTML, XML, TXT, XLS.

How to export audit Records

This procedure gives you a way to export audit records in comma separated variable (CSV) format or in one of four other standard data formats. The result file contains only visible records; active filters are taken into account.

1. Click **Export.**
2. The *Export Tekelec Data* window opens shown below.

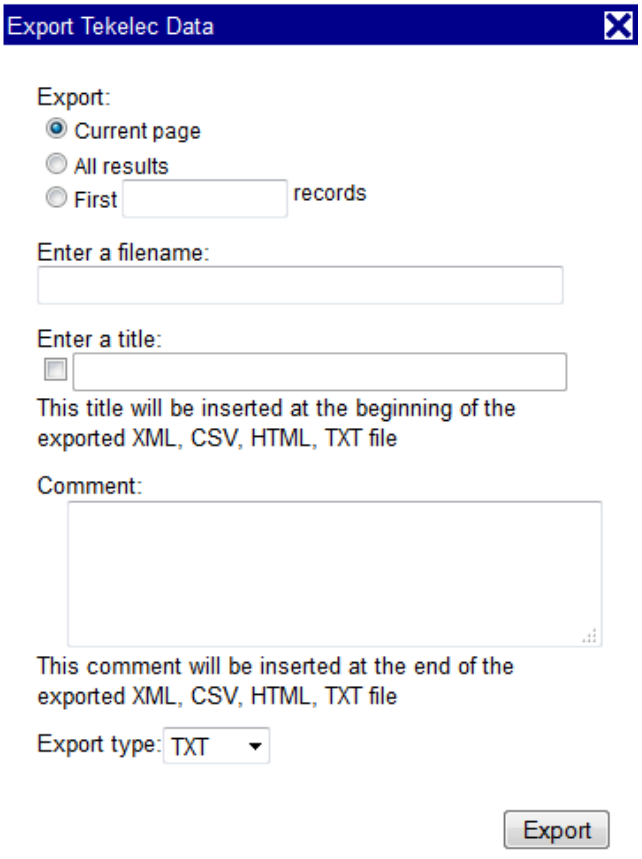

Figure 12: Export Tekelec Data Window

3. Select the **Export** type located in the *Choice of data* section of the screen. You can select:

   a) Current Page

b) All results

c) First *blank* records (the number of records you want to export).

4. Enter **file name**

5. (Optional) Enter any **comments** that are related to the export file.

6. Select the **Export type** from the formats provided. You have the option to select

   a) XML format

   b) CSV format

   c) HTML format

   d) TXT (text) format

7. Click **Export** to start the file transfer.

An export status widget appears at the top of the table on the screen shown below.

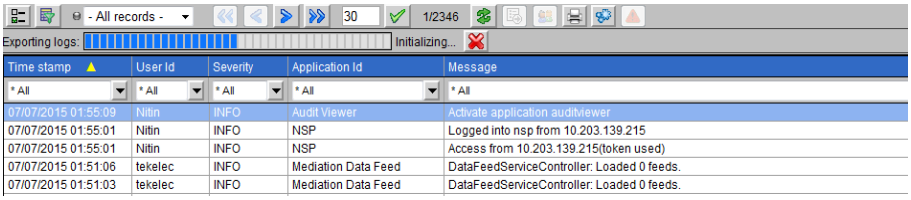

Figure 13 : Export Status Formatting Page

There is a progress bar showing the percentage of the data exported.

Stopping the Export Process

To stop the export process, click **Cancel** button which appears along in export status widget. The export is stopped.

APPENDIX A: My Oracle Support (MOS)

MOS (https://support.oracle.com) is your initial point of contact for all product support and training needs. A representative at Customer Access Support (CAS) can assist you with MOS registration.

Call the CAS main number at 1-800-223-1711 (toll-free in the US), or call the Oracle Support hotline for your local country from the list at http://www.oracle.com/us/support/contact/index.html. When calling, make the selections in the sequence shown below on the Support telephone menu:

1. Select 2 for New Service Request
2. Select 3 for Hardware, Networking and Solaris Operating System Support
3. Select 2 for Non-technical issue

You will be connected to a live agent who can assist you with MOS registration and provide Support Identifiers. Simply mention you are a Tekelec Customer new to MOS.

MOS is available 24 hours a day, 7 days a week.