DIH 1.2

Audit Viewer Administration Guide

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Table of Contents

List of Figures

List of Tables

Chapter 1

About This Help Text

Topics:

Overview

The Audit Viewer Tool is part of the NSP 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 NSP Network Administrator and the NSP Monitoring Manager have access to this application. The application is located in the Surveillance group in Diameter Intelligence Hub (DIH).

Scope and Audience

This help system provides information about Audit Viewer's and is designed around performing common tasks to efficiently and effectively monitor applications 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.

About the Diameter Intelligence Hub (DIH)

The Diameter Intelligent Hub (DIH) is used to monitor a LTE network. DIH also creates a small hardware "footprint" for customers who administer 3G and 4G diameter networks. The DIH:

- Is a single blade server and storage blade collocated within a single or dual Diameter Signaling Router (DSR) enclosure(s).
- Provides filtering, data feed, tracing, decoding, and SNMP functions.
- Enables the selective collection and storage of diameter traffic within one or more instances of PMF and IXP.
- Provides nodal diameter troubleshooting.
- Provides data export for diameter messages.
- Supports both IPv4 and IPv6 traffic simultaneously.
- Provides KPI tracking using ProTrace application as well as viewing KPIs in graphic format using ProPerf dashboard configured at installation.
- Provides filtering for alarms using ProTraq Cell filter (see system alarms online help).
- Uses diameter protocol exclusively.

  Note: The DIH system can use other protocols if the Diameter mode has not been selected and system is in Standard mode. (Default setting is Standard mode. For more information on selecting Diameter mode, see Centralized Configuration Manager Administration online help, "Setting System to Diameter Mode."

The Diameter Protocol

The diameter protocol has evolved from the Radius protocol and enables diameter applications to extend the base protocol by adding new commands and/or attributes, such as those for use of the Extensible Authentication Protocol (EAP).

The diameter protocol provides for an Authentication, Authorization, and Accounting (AAA) framework that overcomes the limitations of RADIUS, (a protocol that handles AAA and EAP), which cannot effectively deal well with remote access, IP mobility and policy control. The Diameter protocol defines a policy protocol used by clients to perform Policy, AAA and Resource Control. This allows a single server to handle policies for many services.

As mentioned above, Diameter protocol provides AAA functionality, but in addition it is made more reliable by using TCP and SCTP instead of UDP. The Diameter protocol is further enhanced by the development of the 3rd Generation Partnership Project (3GPP) IP Multimedia Subsystem (IMS). Through the use of extensions, the protocol was designed to be extensible to support Proxies, Brokers, Strong Security, Mobile-IP, Network Access Servers (NASREQ), Accounting and Resource Management.

Setting User Preferences

Users can set certain User Preferences that apply to the following NSP applications:

- Alarm Forwarding
- Audit Viewer
- ProAlarm Configuration
- ProAlarm Viewer
- ProPerf
- ProPerf Configuration
- ProTraq
- Security
- System Alarms

These User Preferences include

- Time specifications (date format, time zone, etc.)
- Directory names (for exporting, uploading, and downloading)
- Enumeration values (numerals vs. text)
- Node name and node link display
- Point code specifications
- CIC specifications
- Default alarm colors
- Default object privacy privileges

Setting Time Format

Follow these steps to set the time format:

1. Click **User Preferences** on the Application board.
   The User Preferences page is displayed.
2. Click the **Time** tab.
   The Time page is displayed. The red asterisk denotes a required field.

   Note: Use the tips on the page to help you configure the time format.

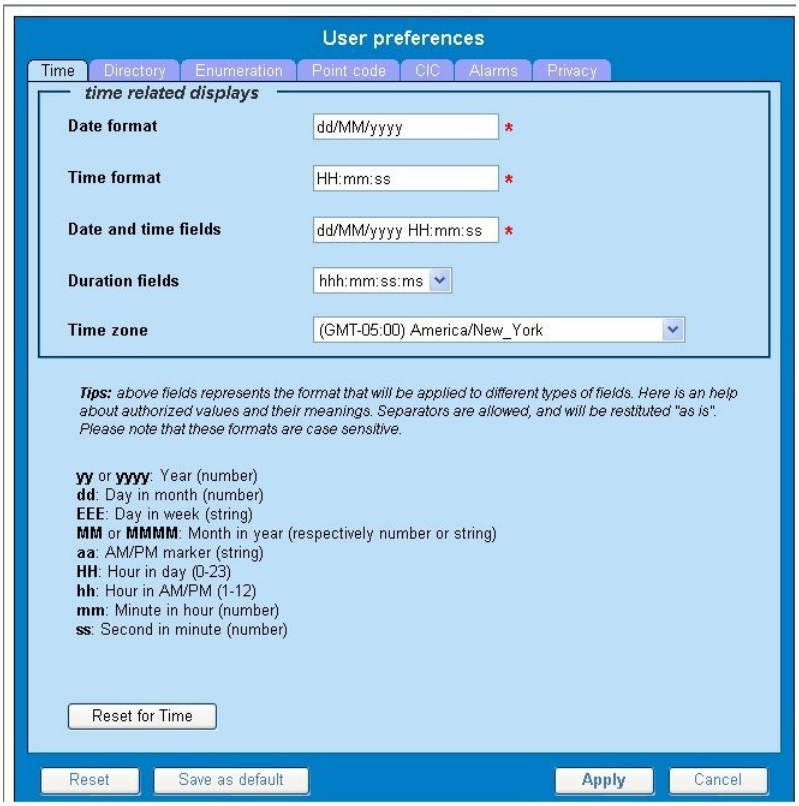

Figure 1: Time Formatting Page

3. Enter the format for these time-related displays.
   - **Date format**
   - **Time format**
   - **Date and time fields**
4. Select the formats for these time-related displays by using the drop-down arrow.
   - **Duration fields**
   - **Time zone**

   Note: You must choose your time zone to get local time.
5. If you want to reset the time-related displays to default settings, click **Reset for Time**. (The bottom **Reset** button resets all the tabbed pages to default settings.)
6. Click **Apply** to save settings.

Setting Directory Preferences

Use the User Preferences feature to set the Export, Upload and Download directory paths for your system. These paths define where xDR's, dictionary files and other elements are stored.

Follow these steps to set the directory preferences.

1. Click **User Preferences** on the Application board.
   The User Preferences page is displayed.
2. Click the **Directory** tab.
   The Directory page is displayed. The red asterisk denotes a required field.

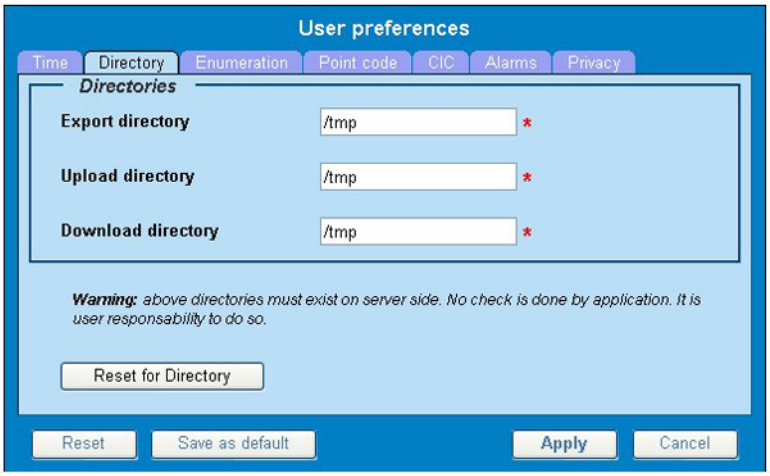

Figure 2: Directory Page

3. Type in the following:
   - **Export directory**
   - **Upload directory**
   - **Download directory**
4. If you want to reset the directories to default settings, click **Reset for Directory.** (The bottom **Reset** button resets all the tabbed pages to default settings.)
5. Click **Apply** to save your settings.

Setting Mapping Preferences

You can set the Mapping settings using the User Preferences feature.

Follow these steps to set Mapping preferences.

1. Click **User Preferences** in the Application board.
   The User Preferences page is displayed.
2. Click the **Mapping** tab .
   The Mapping page is displayed.

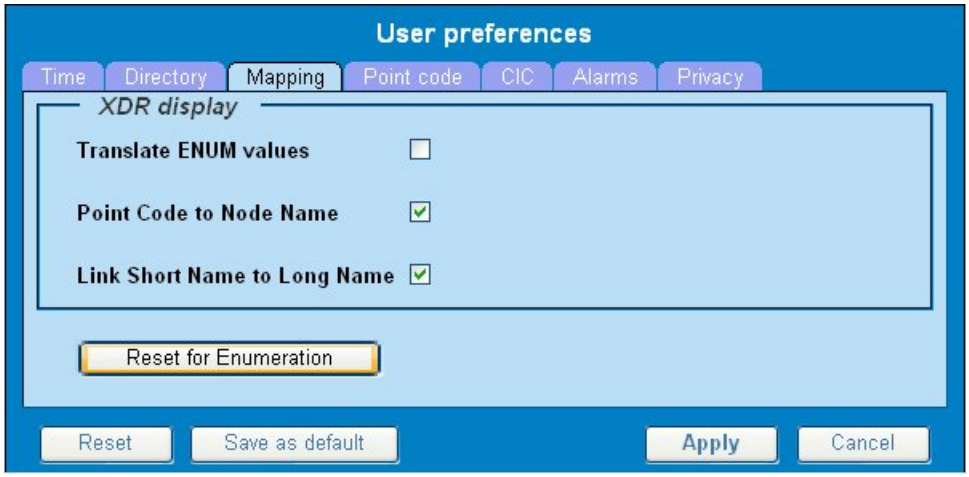

Figure 3: Mapping Page

3. Check **Translate ENUM values** to display text instead of numerals.

   Enumeration is used by xDRs to display text values instead of numeric. (For example, rather than showing the numeral for Alarm Severity, the user interface will show the actual word, such as "Major" or "Critical.")
4. Check **Point Code to Node Name** to display the custom (user-defined) name of the node. Otherwise, the Point Code value is displayed.
5. Check **Link Short Name to Long Name** to display the custom (user-defined) link name or the Eagle link name. Otherwise, the short name is displayed, which is the name that begins with an asterisk (*).
6. To reset the Mapping values to the default, click **Reset for Enumeration**. (The bottom **Reset** button resets all the tabbed pages to default settings.)
7. Click **Apply** to save the changes.

Setting Point Code Preferences

The User Preferences feature enables you to set the Point Code preferences for your system. A Point Code is a unique address for a node (Signaling Point), used to identify the destination of a message signal unit (MSU).

Follow these steps to set the Point Code preferences.

1. Click **User Preferences** in the Application board.
   The User Preferences page is displayed.
2. Click the **Point Code** tab.
   The Point Code page is displayed. The red asterisk denotes a required field.

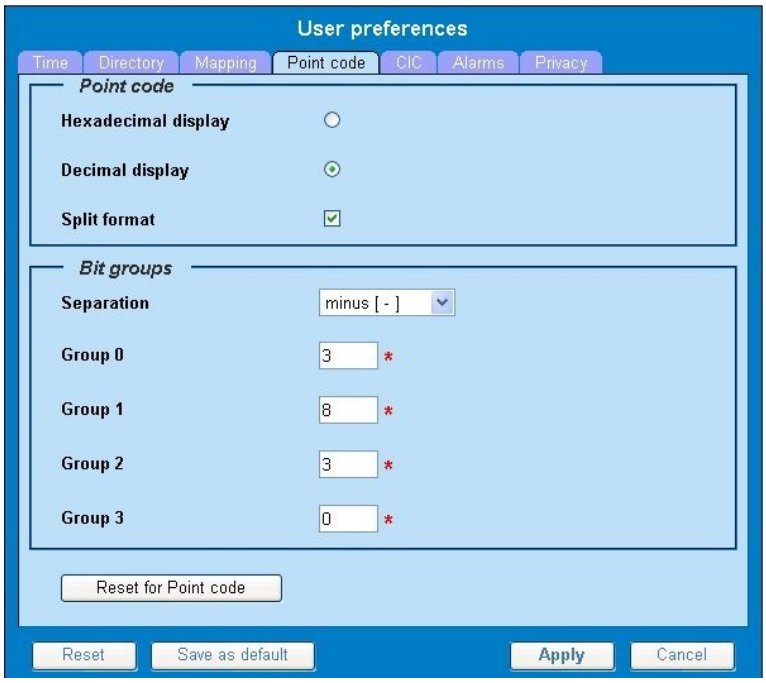

Figure 4: Point Code Tab

3. Select either **Hexadecimal display** or **Decimal display**.
4. Select or de-select **Split format**.
   If **Split format** is checked, the Bit groups settings in the box below are active. If **Split format** is not checked, Bit groups settings are not applicable.
5. If you selected Split format above, go to the next step. If you did not select Split format, go to step *Step 8*.
6. In the Bit groups panel, use the drop-down box to select the **Separation** type .
7. Type in values for **Groups 0-3**.
8. To reset the point code preferences to default settings, click **Reset for Point code**. (The bottom **Reset** button resets all the tabbed pages to default settings.)
9. Click **Apply** to save your settings.

Setting CIC Preferences

The Circuit Identification Code (CIC) provides a way to identify which circuit is used by the Message Signaling Unit (MSU). This is important in ProTrace applications. Use the User Preferences feature to set the CIC settings for your system.

Complete these steps to set the CIC preferences:

1. Click **User Preferences** in the Application board.
   The User preferences page is displayed.
2. Click the **CIC** tab.
   The CIC page is displayed. The red asterisk denotes a required field.

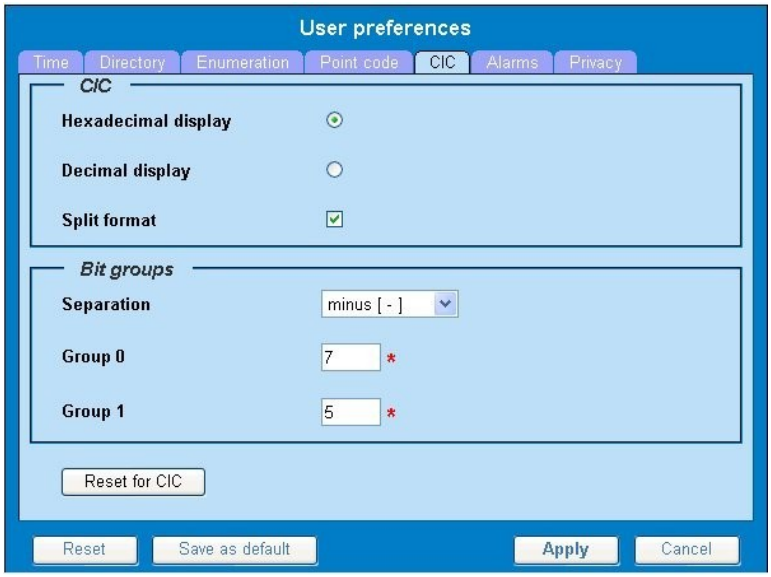

Figure 5: CIC Page

3. Select either **Hexadecimal display** or **Decimal display**.
4. Select or de-select **Split format**.
   If **Split format** is checked, the Bit groups settings in the box below are active. If **Split format** is not checked, Bit groups settings are not applicable.
5. If you selected Split format above, go to the next step. If you did not select Split format, go to step *Step 8*.
6. In the Bit groups panel, use the drop-down box to select **Separation** type..
7. Type in values for **Group 0** and **Group 1**.
8. If you want to reset CIC preferences to the default, click **Reset for CIC**. (The bottom **Reset** button resets all the tabbed pages to default settings.)
9. Click **Apply** to save your settings.

Setting Alarms Preferences

Use the Alarms tab in User Preferences to define the default colors that indicate alarm severity. The colors are displayed in the Perceived Severity column of alarms tables and on object icons in maps.

Follow these steps to modify alarm status colors.

1. Click **User Preferences** in the Application board.
   The User preferences page is displayed.
2. Click the **Alarms** tab.
   The Alarms page is displayed. The red asterisk denotes a required field.

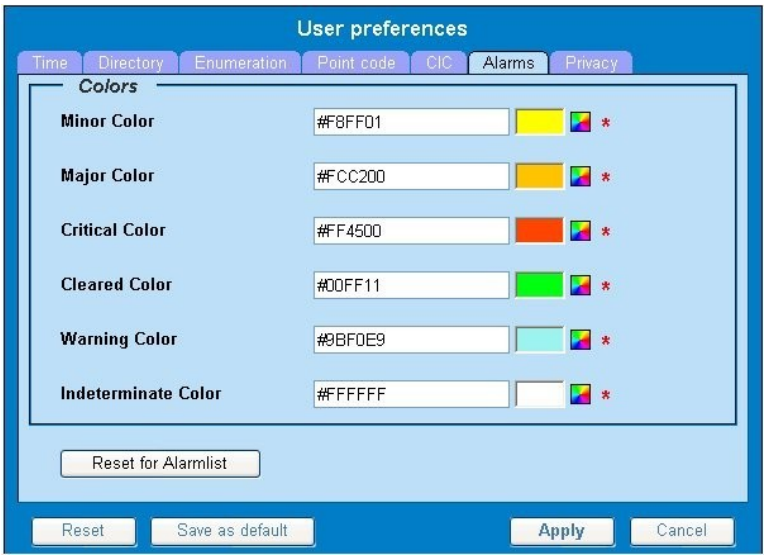

Figure 6: Alarms Page

3. Click the color palette (icon on the right side of the screen) associated with the alarm status color(s) you want to modify.
   A pop-up palette window is displayed.
4. Click the color you want for the type of alarm.
   The color palette pop-up is closed and the color box for the alarm displays the selected color. The number for the color is also displayed.
5. If you want to reset the Alarm preferences to the default, click **Reset for Alarmlist**. (The bottom **Reset** button resets all the tabbed pages to default settings.)
6. Click **Apply** .
   The changes do not take effect until you log out of and in again to NSP.

Setting Default Object Privacy

All NSP users can set default access privileges for Objects (data) they create in NSP applications. An owner has full rights to modify or delete the object . Other users are assigned to a Profile and have access to these Objects through that Profile's associated Privacy Roles.

To enter the default Object Privacy (data) settings, follow these steps:

1. Click **User preferences** in the Application board menu.
   The User Preferences window is displayed. The **Time** tab is active by default.
2. Click the **Privacy** tab .
   The Privacy page is displayed.

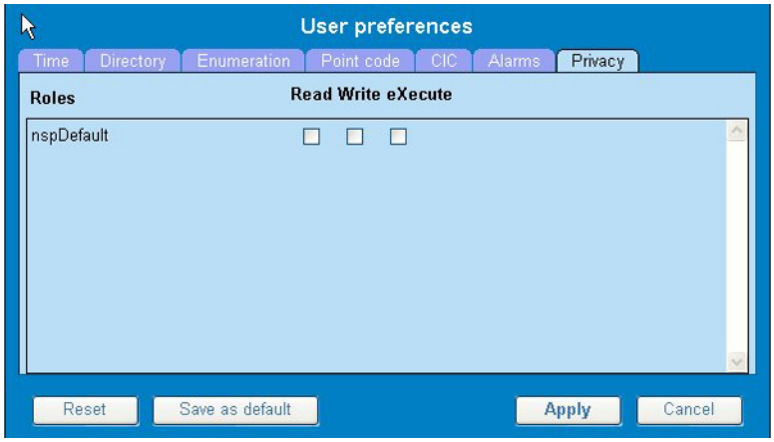

Figure 7: Privacy Page

3. Click the appropriate box to select **Read**, **Write**, or **eXecute**. If you want the role to have no access to the selected object(s), ensure that no box is checked.
4. Click **Save as default**.
5. To reset all the tabbed pages to default settings, click **Reset**.
6. Click **Apply**.
   The settings are saved.

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DIH Documentation Library

DIH customer documentation and online help are created whenever significant changes are made that affect system operation or configuration. Revised editions of the documentation and online help are distributed and installed on the customer system. Consult your NSP Installation Manual for details on how to update user documentation. Additionally, a Release Notice is distributed on the Tekelec Customer Support site along with each new release of software. A Release Notice lists the PRs that have been resolved in the current release and the PRs that are known to exist in the current release.

Listed is the entire DIH documentation library of online help.

- Centralized Configuration Manager Administration Online Help
- Alarm Forwarding Administration Online Help

- Diagnostic Utility Administration Online Help
- ProTrace Online Help
- System Alarms Online Help
- ProPerf Online Help
- ProTraq Configuration Online Help
- Data Feed Export Online Help
- Quick Start Online Help
- System Alarms Online Help

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1. Log into the *Tekelec Customer Support* site.

   Note: If you have not registered for this new site, click the **Register Here** link. Have your customer number available. The response time for registration requests is 24 to 48 hours.

2. Click the **Product Support** tab.
3. Use the Search field to locate a document by its part number, release number, document name, or document type. The Search field accepts both full and partial entries.
4. Click a subject folder to browse through a list of related files.
5. To download a file to your location, right-click the file name and select **Save Target As**.

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U.S. Patent Numbers:

6,456,845; 6,765,990; 6,968,048; 7,043,001; 7,155,512; 7,206,394; 7,215,748; 7,231,024; 7,286,516; 7,286,647; 7,401,360; 7,706,343; 7,844,033; 7,860,799;

Foreign Patent Numbers:

None.

Chapter 2

Introducing Audit Viewer

Topics:

About Audit Viewer - Overview

Audit Viewer is a specific-purpose application which is part of the NSP Toolbox. This system allows the NSP *Monitoring Manager* 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, NSP 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

Topics:

Accessing and logging into NSP

To access and log into NSP, follow these steps:

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

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

   The NSP login screen opens.

   Note: Before you can start NSP, you must first have a userid and password assigned to you by your NSP 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 NSP *Application Board* 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.

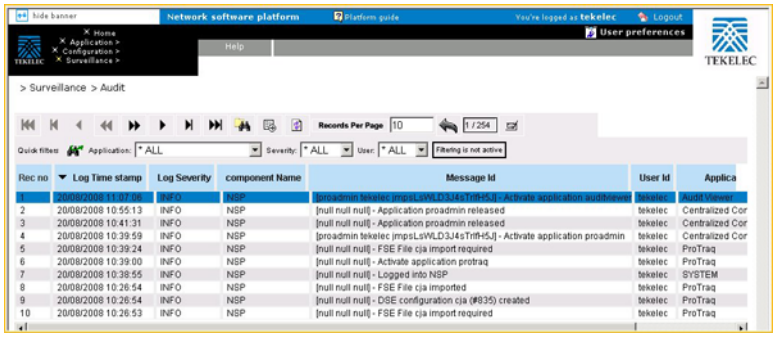

Figure 8: *Audit Viewer* Home Page

The *Audit Viewer* home page shown in Figure 3-3 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.

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

- Rec no - The consecutive number assigned to each record in the table.
- Log Time stamp - The time and date the log record was generated by the NSP system.
- Log Severity - Relative importance of the log record: Fatal, Error, Warn, Info and Debug.
- Component Name - DIH system component for example NSP
- Message Id - Log record information line.
- User Id - Name of user defined in NSP database
- Application Id - NSP application being used.
- 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.

Toolbar

The toolbar has the following function buttons:

 Filter - enables you to create filters for data records to make searches convenient.

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

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

Using Navigation Buttons

You can select a record either by clicking on it to highlight it or you can use the navigation arowbuttons on the tool bar. Each button is described below (in order from left to right).

- First list record - this button takes you to the first record on the first page.
- First page record - this button takes you to the first record on the current page
- Previous record - this button takes you to the previous record on the current page.
- Previous page - this button takes you to the first record on the previous page.
- Next page - this button takes you to the first record on the next page.
- Next record - this button takes you to the next record on the current page.

- Last page record - this button takes you to the last record on the current page.
- Last list record - this button takes you to the last record on the last page.

Note: Clicking the selected record opens it.

Selecting multiple Records

You can also select multiple records using the Shift or Ctrl key.

Selecting multiple separate Records

To select multiple separated records, press the Ctrl key while you click the records you want to include in the selection.

Selecting blocks of Records

If you want to select a block of records, press the Shift key while you click the first and last records of the block being selected.

For more information about using the Tool Bar, refer to *Understanding the Platform* GUI in the NSP *Platform Guide*. The record export tool bar function, which is unique to Audit Viewer, is described in Chapter 6, *Exporting audit records*.

Chapter 4

Filtering Audit Viewer Records

Topics:

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: Application, Severity and User. Any criterion or combination of criteria can be used for the search.

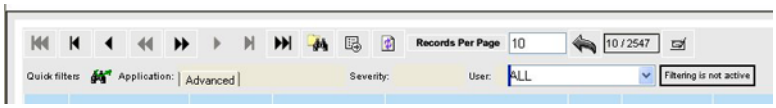

Figure 9: Quick Filters Tool Bar Option

1. Select the **application criterion**.

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

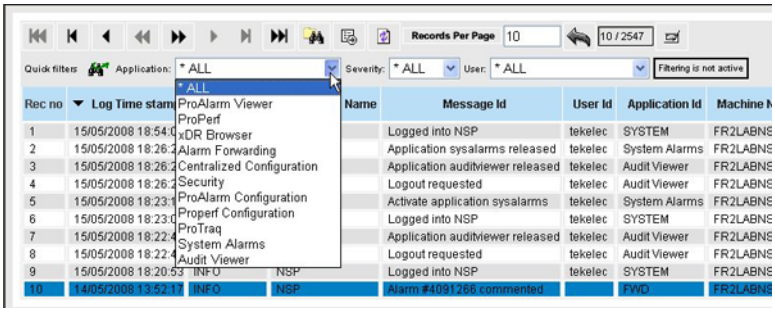

   Figure 10: *Application* Window

2. Select **severity criterion**.

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

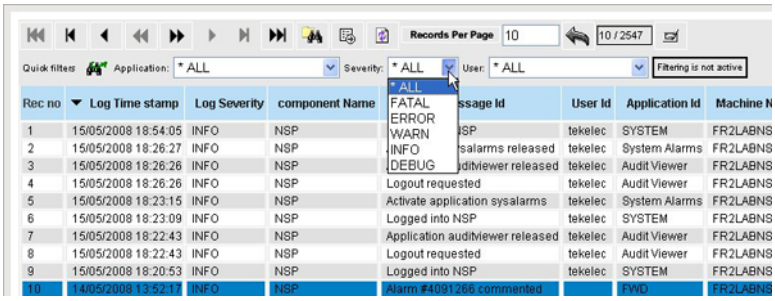

Figure 11: *Severity* Window

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

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

3. Select **user criterion**.

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

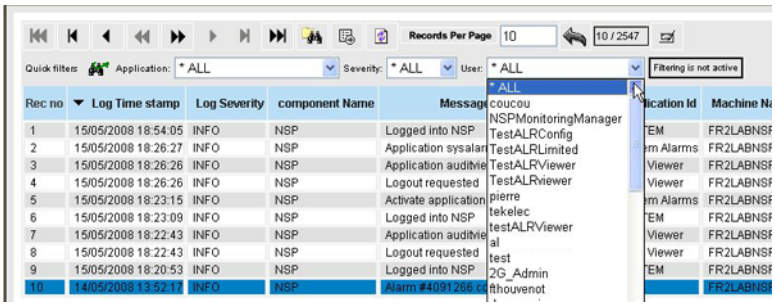

Figure 12: *User* Window

Note: You can select *only one* option in each pulldown menu. (Another *Audit Viewer* filtering tool discussed below overcomes this limitation.)

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.

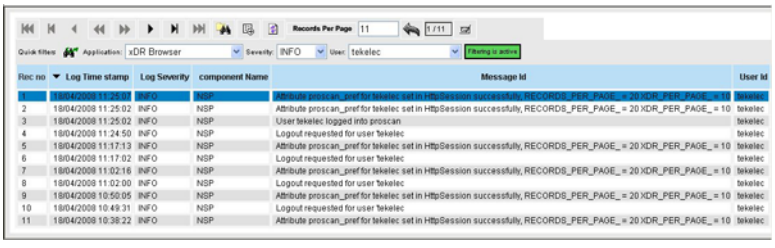

Figure 13: Filtered List Using All Three Criteria

Using the Filters Tool to Select Audit Viewer Records

You filter records based on key criteria using the filter function. To filter records, perform the following steps:

1. Display the **record list** you want to filter.
2. Click the **filter** button, the filter screen opens shown in the First Filter Screen.

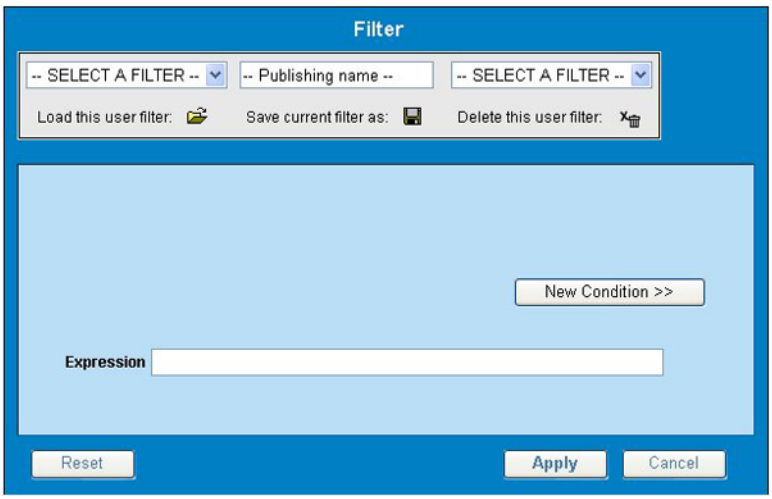

Figure 14: First Filter Screen

3. If a stored filter is to be used, choose a **filter** from the *SELECT* A *FILTER* pull-down menu in the gray field a the top of the Filter window.

   Then click the ***Load this user filter*** **option**. The filter definition appears in the *Expression* field.

4. Click the ***New Condition*** **button** to enter a condition for a new filter or to add one to an existing filter.

   The *New Condition*screen opens as shown in the New Condition and New Condition with Multiple Conditions screens.

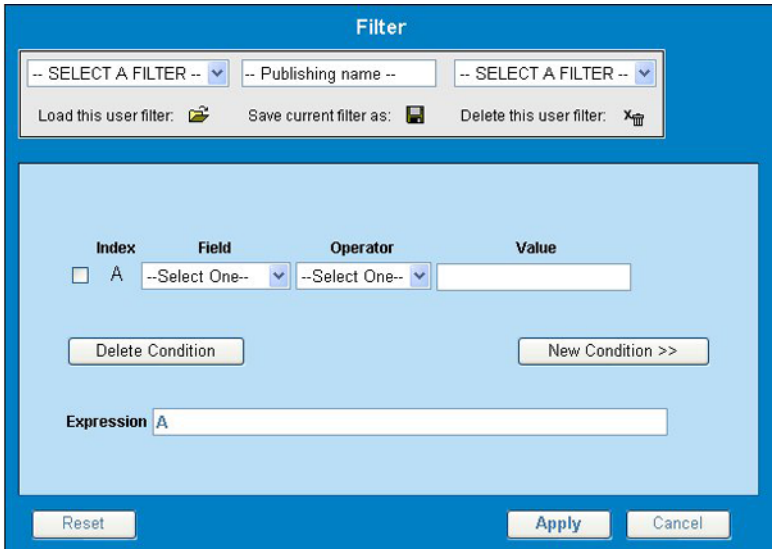

Figure 15: New Condition Screen

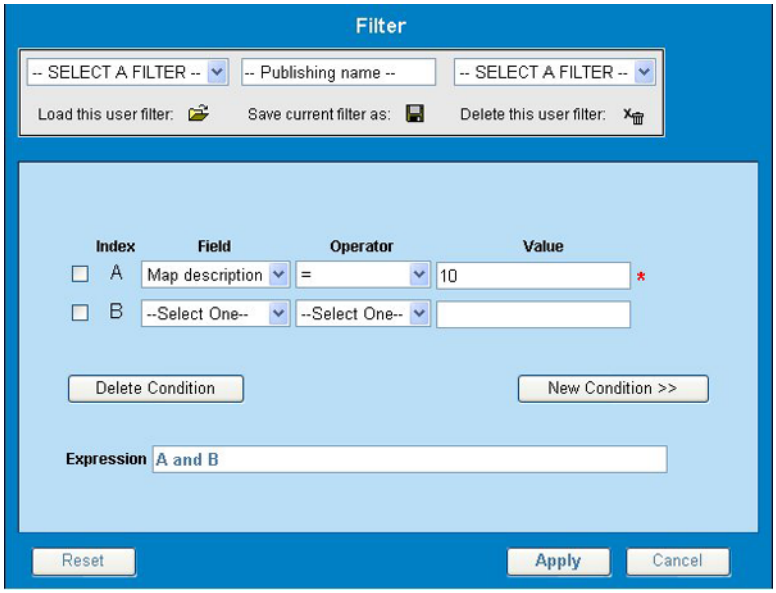

Figure 16: New Condition Screen with Multiple Conditions

Note: You may enter up to 26 conditions in sequence by defining a new condition with any (or all) of the *Field, Operator* and *Value* terms and then clicking the *New Condition* button. A checkbox is used to select an existing condition for editing.

5. Click the down arrow key to select a **condition** from the pull-down menu associated with the *Field* or *Operator* field.
6. Enter a **condition value** in the *Value* field.

   Note: You can edit the *Expression* field by substituting OR for AND (the default relationship between *Index* terms). Parentheses are used in complex expressions to tell the system which entries to consider first.

7. If the filter is to be archived, enter a ***Publishing name*** if none exists and click the ***Save current filter as*** in the gray field a the top of the Filter window.

   Note: An archived filter is deleted by clicking the *Delete this user filter* option (in the gray field at the top of the Filter window) after choosing the filter in the associated *SELECT* A *FILTER* pull-down menu

8. Click ***Apply*** when you have completed your entries.

   A list is displayed containing the records selected by the filter.

Chapter 5

Viewing User Activity

Topics:

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

Table 1: User's Activity For Application, Component And Function

Application	Component	Functionality	Message
ProTrace	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
Alarm Forwarding	Filter	Add, Modify, Remove	Alarm forwarding filtering rules changed
	Destination	Configure	Alarm forwarding destination settings changed
ProTraq	StatConfiguration	Create	Configuration <NAME> (#<ID>) created
		Update	Configuration <CONFIG_NAME> (#<CONFIG_ID>) modified (corner filter created)
		Update (corner filter)	Configuration <NAME> (#<ID>) modified (corner filter created)
			Configuration <NAME> (#<ID>) modified (corner filter updated)
			Configuration <NAME> (#<ID>) modified (corner filter removed)
		Update (columns)	Configuration <NAME> (#<ID>) modified (column filter "+_columnName+" created)

Application	Component	Functionality	Message
			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 <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
			Getting Historical Task Status
			Deleting Historical Task
ProPerf Dashboard view	NA	List, Execute	Display dashboard <NAME> (#<ID>)

Application	Component	Functionality	Message
ProPerf Configuration	Dashboard	Create, Remove, Update	Dashboard <NAME> (#<ID>) created
			Dashboard <NAME> (#<ID>) removed
			Dashboard <NAME> (#<ID>) updated
			Panel <NAME> (#<ID>) added to Dashboard #<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
Datafeed	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>

Table 2: User Activity Chart for Centralized Configuration Manager

Application	Component	Functionality	Message
CCM	Network	NA	Legacy PMF Linkset <NAME> (#<ID>) with OID :<OID> updated
			Legacy PMF Linkset <NAME> (#<ID>) removed
			IP SP <NAME> (#<ID>) with OID=<OID> removed
			IP SP <NAME> with OID=<OID> updated
			IP SP #" + spId + " removed
	System	NA	Application <TYPE> <NAME> (#<ID>) created
			DB Link <NAME>created
			Connection <NAME>created
			Host <NAME> (#<ID>) created
			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.

Application	Component	Functionality	Message
			[XMF]IP PDU filter <NAME>(#<ID>) updated.
			[XMF]PC PDU filter <NAME>(#<ID>) updated.
			[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] Parameter (Long) <NAME> saved.
			[XMF] Parameter (String) <NAME> saved.
			[XMF] Parameter (Long) <NAME> removed.
			[XMF] Parameter (String) <NAME> removed.
			[XMF] Parameter <NAME> created.
			[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>.

Application	Component	Functionality	Message
		Configure	Error while creating IXP Config Migration Log forIXP - <SUBSYSTEM NAME>.
			Builder Parameter - PDU Datasource - <STREAM NAME> is not routed to any xMF.
			NoHost IP found in PDU DTS stream - <STREAM NAME>

Table 3: User Activity - Security

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 Access denied : SERVICE access level required Access denied : RESTRICTED access level required Access denied : logout by administrator
		Logout	Logout requested

Application	Component	Functionality	Message
		Navigate	Activate application <APPLICATION_NAME> Application <APPLICATION_NAME> released

Chapter 6

Exporting Audit Records

Topics:

Overview

This chapter provide a procedure for exporting audit records from the NSP to remote systems in one of four selectable formats: CSV, HTML, XML, TXT.

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 three other standard data formats. The result file contains only visible records; active filters are taken into account.

1. Click the **record** in the *Audit* list that you want to export shown in the figure below.

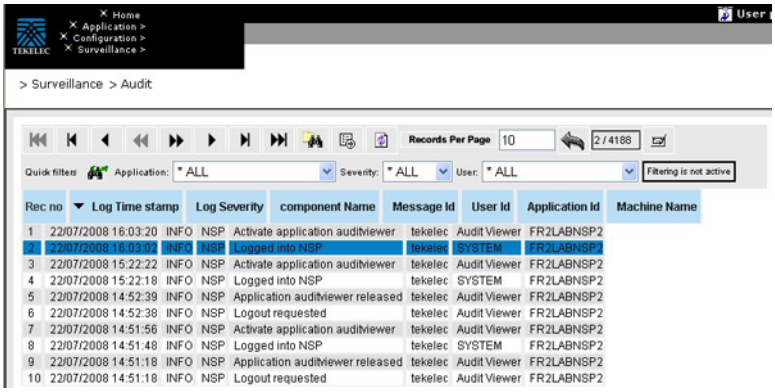

Figure 17: *Audit* Listing With Export Record Selected

2. Click **Export**.

   The *Export Tekelec data* window opens shown below.

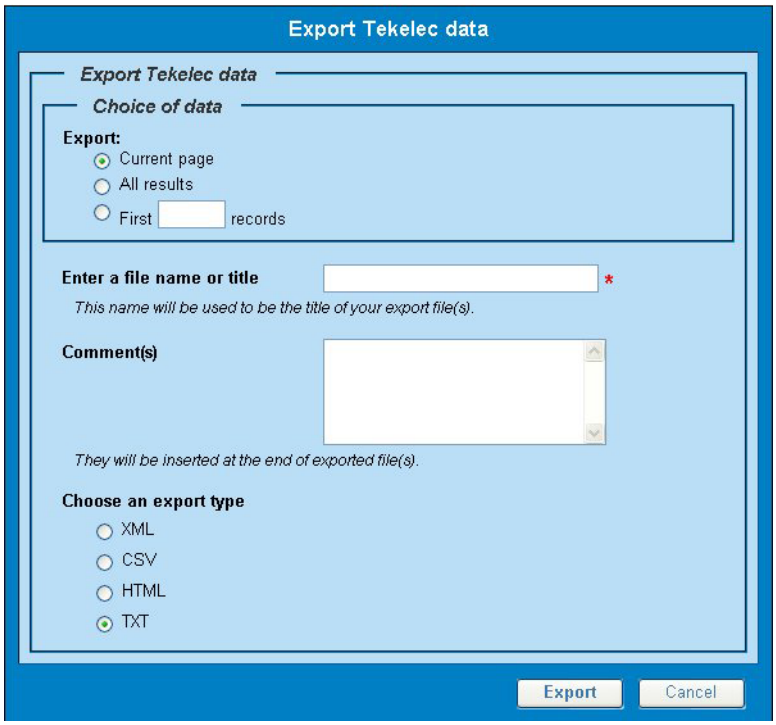

Figure 18: The *Export Tekelec Data* Window

You must first log into the Network Software Platform (NSP) that uses the ANSI-ISUP protocol. To log into NSP navigate to NSP using your Web browser, and then log in using your NSP userid and password.

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 pop-up window appears on the screen shown below.

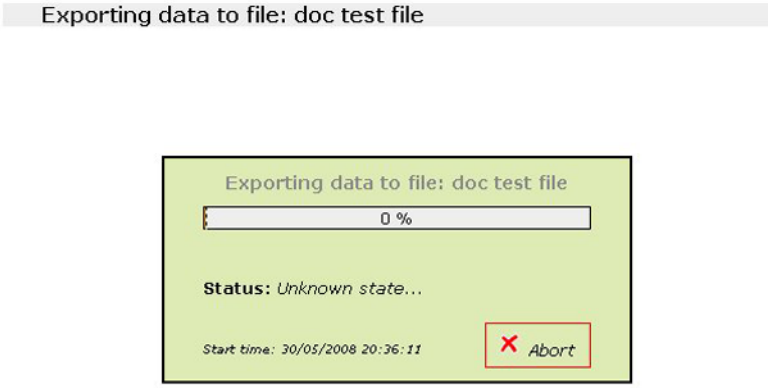

Figure 19: The Export StatusWindow

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

Stopping the export Process

To stop the export process, click **Abort**. The export is stopped.