

Audit Information

USER GUIDE

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1 Introduction

Audit information can be used to track access to files, directories, and resources of the system. It enables monitoring of the system for application misbehavior or code malfunctions.





2 Audit Log

The audit log record is forwarded to the `syslog` interface of the operating system. This provides a common audit trail that can be used for traceability of actions in the system.

2.1 Syslog

The syslog can be read from `/var/log/messages`, which in turn is a symbolic link to, for example, `/var/log/SC-2-1/messages`.

2.2 Description of Syslog Entries

The format of the syslog entries is as follows: `<date> <time> <hostname> <program_name>: <message>`

2.2.1 Ericsson Command-Line Interface Examples

The following Ericsson Command-Line Interface (ECLI) example commands result in the following entries in the syslog:

```
>ManagedElement=NODE06ST
(ManagedElement=NODE06ST) >configure
(config-ManagedElement=NODE06ST) >siteLocation=SEKI2707353A
(config-ManagedElement=NODE06ST) >commit
>exit
```

```
Feb  4 13:35:22 SC-1 com: interface=cli user-name=root session-id=3 =>
cmd-grp-name=ComBasicCommands CLI agent connection start.
Feb  4 13:36:12 SC-1 com: interface=cli user-name=root session-id=3 =>
Invoke setMo(): DN: ManagedElement=NODE06ST class: ManagedElement, =>
attribute: siteLocation, value: 'SEKI2707353A'
Feb  4 13:36:35 SC-1 com: interface=cli user-name=root session-id=3 =>
Transaction 82 Commit
Feb  4 13:38:09 SC-1 com: User name: root, Session Id: 3. Cli agent =>
connection end.
```

2.2.2 NETCONF Interface Example

The following Ericsson NETCONF Interface example commands result in the following entries in the syslog:



```
<?xml version="1.0" encoding="UTF-8"?>
<rpc message-id="1" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
  <edit-config>
    <target>
      <running/>
    </target>
    <config xmlns:xc="urn:ietf:params:xml:ns:netconf:base:1.0">
      <ManagedElement>
        <managedElementId>1</managedElementId>
        <userLabel>Com</userLabel>
      </ManagedElement>
    </config>
  </edit-config>
</rpc>
]]>]]>
```

```
Feb 27 09:38:35 SC-2-1 com: interface=netconf user-name=root sessio
Feb 27 09:38:35 SC-2-1 com: interface=netconf user-name=root sessio
```




3 Audit Trail

The audit trail can, for example, be filtered out from the total syslog file by using keywords on the syslog entry, `<message>`.

3.1 Audit Trail in Syslog Example

```
<date> <time> <hostname> <program_name>: interface=cli ...  
<date> <time> <hostname> <program_name>: interface=netconf ...
```