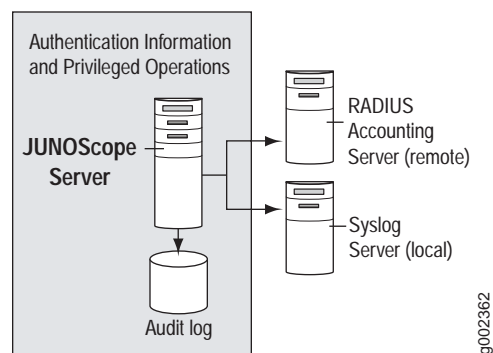


## Chapter 35

# RADIUS Accounting Attributes

RADIUS attributes corresponding to JUNOScope events are logged to a remote RADIUS accounting server if it is configured in JUNOScope and running. (See Figure 14.)

**Figure 14: JUNOScope Security-Enhanced Sensitive Data Logging**



If the system log daemon is down, event messages sent to the system log server are not logged. If all the RADIUS accounting servers are down, event message attributes sent to the RADIUS accounting servers are not logged.

## Interpreting RADIUS Accounting Attributes

All RADIUS accounting messages include the following attributes:

- **NAS-Identifier**—The server hostname connected with the server HTTP port number.
- **Acct-Session-Id**—The Tomcat Web container session ID or the global scheduled session ID.
- **Acct-Status-Type**—**Start** for login, **Stop** for session termination, and **Interim-Update** for all other messages.
- **User-Name**—The name of the user currently logged in (for interactive commands) or the name of the user who scheduled an operation (for scheduled commands).

- Juniper-JUNOScope-Schedule—The name of the schedule for any records (including start and stop) associated with the run of a schedule. For all interactive sessions, this attribute is not present.

## Additional RADIUS Attributes

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Depending on the message, the following additional RADIUS attributes may be present:

- Acct-Terminate-Cause—Indicates whether the session ended because of a deliberate logout or a session timeout.
- Juniper-JUNOScope-Privileged-Operation—The symbolic name for the operation that was performed.
- Juniper-JUNOScope-Target—The name of the object affected by the privileged operation.
- Juniper-JUNOScope-Login-Failure-Reason—The reason for login failure: 'user locked' or 'login failure'.

The RADIUS accounting server expects all accounting records to occur in the context of a session. Since JUNOScope operations can be performed on a schedule after a user's session is no longer valid, a new session is created for each scheduled task. A session **start** message is sent before the scheduled task executes; a session **end** message is sent after the task completes.