containerized Multi-Access Gateway – controller

Release 26.10

Log Events Reference Guide

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1 Getting started

Find general information about this guide.

1.1 About this guide

This guide provides descriptions of event notifications that are forwarded to a destination such as a file or syslog. Properties that are reported include event name, message format, cause, and effect. The information is intended to assist with identifying and responding to the event notifications.

Command outputs shown in this guide are examples only; actual displays may differ depending on supported functionality and user configuration.

The CLI command descriptions can be found in the *cMAG-c CLI and Data Model Reference*.

Note: This guide generically covers content for the release specified on the title page of the guide, and may also contain some content that will be released in later maintenance loads. See the applicable *cMAG-c Release Notes* for information about features supported in each load of the software release.

1.2 Conventions

This section describes the general conventions used in this guide.

1.2.1 Precautionary and information messages

The following information symbols are used in the documentation.

DANGER: Danger warns that the described activity or situation may result in serious personal injury or death. An electric shock hazard could exist. Before you begin work on this equipment, be aware of hazards involving electrical circuitry, be familiar with networking environments, and implement accident prevention procedures.

WARNING: Warning indicates that the described activity or situation may, or will, cause equipment damage, serious performance problems, or loss of data.

Caution: Caution indicates that the described activity or situation may reduce your component or system performance.

Note: Note provides additional operational information.

Tip: Tip provides suggestions for use or best practices.

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1.2.2 Options or substeps in procedures and sequential workflows

Options in a procedure or a sequential workflow are indicated by a bulleted list. In the following example, at step 1, the user must perform the described action. At step 2, the user must perform one of the listed options to complete the step.

Example: Options in a procedure

1. User must perform this step.
2. This step offers three options. User must perform one option to complete this step.
   - This is one option.
   - This is another option.
   - This is yet another option.

Substeps in a procedure or a sequential workflow are indicated by letters. In the following example, at step 1, the user must perform the described action. At step 2, the user must perform two substeps (a. and b.) to complete the step.

Example: Substeps in a procedure

1. User must perform this step.
2. User must perform all substeps to complete this action.
   a. This is one substep.
   b. This is another substep.

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2 Log events overview

Log events have common elements or properties and are formatted. The logging destinations can be configured.

2.1 Viewing log events

Procedure

Use the following command to display log events specific to subscriber management:

```
show subscriber-management log
```

See "Logging" in the *SR Linux Configuration Basics Guide* for more information about viewing log events.

2.2 Log event configuration

See "Logging" in the *SR Linux Configuration Basics Guide* for more information.

2.3 Sample log event

In this guide, each log event is described in a separate table.

The following table contains a sample log event entry for the ConfigurationApplyFailed log event.

Table 1: ConfigurationApplyFailed properties

Property name	Value
Application name	management
Event name	ConfigurationApplyFailed
Default severity	warning
Message format string	*object*: could not apply fields *fields*: *reason*
Cause	Configuration fails
Effect	Configuration is not applied; resolve the listed conflicts to allow the system to apply the configuration automatically, or apply a new configuration

The table title for a log event entry is the event name. Each entry contains the information described in the following table.

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Table 2: Log entry field descriptions

Label	Description
Application name	Name of the application generating the log message
Event name	Name of the log event
Default severity	Default severity level of the log event • critical • error • warning • informational • debug
Message format string	Text description of the log event
Cause	Cause of the log event
Effect	Effect of the log event

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3 Log events

Get a summary of the supported alarms and raising events and detailed descriptions per alarm and event object.

3.1 li

3.1.1 BootLIConfig

Table 3: BootLIConfig properties

Property name	Value
Application name	li
Event name	BootLIConfig
Default severity	warning
Message format string	Lawful intercept (LI) bootup configuration status: *LI_configuration_status*; LI local save: *LI_local_save_status*; time of last system bootup: *Date Time*
Cause	The system periodically reports the current status and the time of the last system bootup
Effect	LI is in use and the current LI status is reported

3.1.2 LIAdminDisable

Table 4: LIAdminDisable properties

Property name	Value
Application name	li
Event name	LIAdminDisable
Default severity	critical
Message format string	LI has changed to administrative disable state
Cause	Configuration update disables the LI administrative state
Effect	LI administrative state is disabled

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3.1.3 LIAdminEnable

Table 5: LIAdminEnable properties

Property name	Value
Application name	li
Event name	LIAdminEnable
Default severity	warning
Message format string	LI has changed to administrative enable state
Cause	Configuration update enables the LI administrative state
Effect	LI administrative state is enabled

3.1.4 LIOperDown

Table 6: LIOperDown properties

Property name	Value
Application name	li
Event name	LIOperDown
Default severity	critical
Message format string	LI changed to the operational down state because of *oper_down_reason*
Cause	LI mirror operational state changes from up to down
Effect	LI operational state is down

3.1.5 LIOperUp

Table 7: LIOperUp properties

Property name	Value
Application name	li
Event name	LIOperUp
Default severity	warning

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Property name	Value
Message format string	LI has changed to operational up state
Cause	LI operational state changes from down to up
Effect	LI operational state is up

3.1.6 LISourceSubscriberProblemUP

Table 8: LISourceSubscriberProblemUP properties

Property name	Value
Application name	li
Event name	LISourceSubscriberProblemUP
Default severity	critical
Message format string	Configuration of LI target subscriber *LISubscriber_source* under LI mirror source instance *LISource_instance_name* on the MAG-u failed with reason *oper_down_reason*; add the subscriber manually when the problem is fixed
Cause	Error occurs in the LI session configuration between the MAG-c and MAG-u
Effect	cMAG-c failed to configure and enable the LI session for the specific subscriber on the MAG-u; LI session is inactive

3.1.7 LISourceSubscriberSessionActive

Table 9: LISourceSubscriberSessionActive properties

Property name	Value
Application name	li
Event name	LISourceSubscriberSessionActive
Default severity	notice
Message format string	LI target subscriber *LISubscriber_source* under LI mirror source instance *LISource_instance_name* is online and under active LI
Cause	LI subscriber target is online and the LI session is active
Effect	Packets on the specified LI mirror source are mirrored toward the LI destination that is configured on the mirror destination

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3.1.8 LISourceSubscriberSessionStandby

Table 10: LISourceSubscriberSessionStandby properties

Property name	Value
Application name	li
Event name	LISourceSubscriberSessionStandby
Default severity	notice
Message format string	LI target subscriber *LISubscriber_source* under LI mirror source instance *LISource_instance_name* is offline and LI will resume when the target is back online
Cause	LI session is inactive because the active subscriber target is offline; the session resumes when the active target is back online
Effect	Specified LI mirror source is offline; packets are not mirrored toward the LI destination configured on the mirror destination

3.1.9 LISubscriberAddUP

Table 11: LISubscriberAddUP properties

Property name	Value
Application name	li
Event name	LISubscriberAddUP
Default severity	debug
Message format string	LI target subscriber *LISubscriber_source* is added successfully to the LI mirror source instance *LISource_instance_name* on the MAG-u
Cause	LI subscriber added successfully on the MAG-u
Effect	Data packets are mirrored to the LI gateway when the subscriber comes online

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3.1.10 LISubscriberChangeUP

Table 12: LISubscriberChangeUP properties

Property name	Value
Application name	li
Event name	LISubscriberChangeUP
Default severity	debug
Message format string	Successfully changed configuration of LI target subscriber *LISubscriber_source* on LI mirror source instance *LISource_instance_name* on the MAG-u
Cause	LI subscriber configuration changes successfully applied on the MAG-u
Effect	LI data packets are mirrored successfully to the LI gateway when the subscriber comes online

3.1.11 LISubscriberDeleteUP

Table 13: LISubscriberDeleteUP properties

Property name	Value
Application name	li
Event name	LISubscriberDeleteUP
Default severity	debug
Message format string	Successfully removed LI target subscriber *LISubscriber_source* from the LI mirror source instance *LISource_instance_name* on the MAG-u
Cause	LI subscriber is deleted successfully on the MAG-u
Effect	LI subscriber is removed from the online MAG-u

3.1.12 LISubscriberRetryUP

Table 14: LISubscriberRetryUP properties

Property name	Value
Application name	li
Event name	LISubscriberRetryUP

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Property name	Value
Default severity	critical
Message format string	cMAG-c cannot perform the operation *LI_operation* for LI target subscriber *LISubscriber_source* under LI mirror source instance *LISource_instance_name* and retries periodically
Cause	cMAG-c fails to perform the LI operation for the LI target because the MAG-u is unreachable
Effect	cMAG-c fails to perform the LI instruction and retries periodically

3.2 management

3.2.1 ConfigurationApplyFailed

Table 15: ConfigurationApplyFailed properties

Property name	Value
Application name	management
Event name	ConfigurationApplyFailed
Default severity	warning
Message format string	*object*: could not apply fields *fields*: *reason*
Cause	Configuration fails
Effect	Configuration is not applied; resolve the listed conflicts to allow the system to apply the configuration automatically, or apply a new configuration

3.2.2 ConfigurationApplyFailureSolvedByApp

Table 16: ConfigurationApplyFailureSolvedByApp properties

Property name	Value
Application name	management
Event name	ConfigurationApplyFailureSolvedByApp
Default severity	informational
Message format string	*object*: the configuration application failure is resolved

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Property name	Value
Cause	Application accepts the new configuration
Effect	Configuration successfully applied and configuration failure resolved

3.2.3 ConfigurationApplyFailureSolvedByDelete

Table 17: ConfigurationApplyFailureSolvedByDelete properties

Property name	Value
Application name	management
Event name	ConfigurationApplyFailureSolvedByDelete
Default severity	informational
Message format string	*object*: the configuration application failure is resolved (object was deleted)
Cause	Application accepts the object for deletion
Effect	Object will be deleted and configuration failure resolved

3.2.4 ConfigurationApplyFailureSolvedByUpdate

Table 18: ConfigurationApplyFailureSolvedByUpdate properties

Property name	Value
Application name	management
Event name	ConfigurationApplyFailureSolvedByUpdate
Default severity	informational
Message format string	*object*: the configuration application failure is resolved (update request is canceled)
Cause	New configuration overwrites the failing configuration
Effect	No more pending configuration and configuration failure resolved

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3.2.5 ConfigurationDeleteFailed

Table 19: ConfigurationDeleteFailed properties

Property name	Value
Application name	management
Event name	ConfigurationDeleteFailed
Default severity	warning
Message format string	*object*: could not delete object: *reason*
Cause	Configuration deletion fails
Effect	Configuration is not deleted; resolve the listed conflicts to allow the system to delete the configuration automatically, or restore the configuration to cancel the deletion

3.2.6 ConfigurationDeleteFailureSolvedByApp

Table 20: ConfigurationDeleteFailureSolvedByApp properties

Property name	Value
Application name	management
Event name	ConfigurationDeleteFailureSolvedByApp
Default severity	informational
Message format string	*object*: the configuration delete failure is resolved
Cause	Application deletes the object
Effect	Object deleted and configuration failure resolved

3.2.7 ConfigurationDeleteFailureSolvedByUpdate

Table 21: ConfigurationDeleteFailureSolvedByUpdate properties

Property name	Value
Application name	management
Event name	ConfigurationDeleteFailureSolvedByUpdate
Default severity	informational

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Property name	Value
Message format string	*object*: the configuration delete failure is resolved (object need not be deleted anymore)
Cause	New configuration cancels the pending delete
Effect	Object not deleted and configuration failure resolved

3.2.8 LicenseChangeDeploymentSetup

Table 22: LicenseChangeDeploymentSetup properties

Property name	Value
Application name	management
Event name	LicenseChangeDeploymentSetup
Default severity	informational
Message format string	License provisioning triggered the creation of the following deployment : *object*
Cause	Configuration of a new cMAG-c license
Effect	Creation of a new Kubernetes deployment and associated pods

3.2.9 LicenseChangeDeploymentTeardown

Table 23: LicenseChangeDeploymentTeardown properties

Property name	Value
Application name	management
Event name	LicenseChangeDeploymentTeardown
Default severity	warning
Message format string	License removal or expiration triggered the removal of the following deployment : *object*
Cause	Removal or expiration of a cMAG-c license
Effect	Teardown of a Kubernetes deployment and associated pods

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3.2.10 OperationalStateFetchFailed

Table 24: OperationalStateFetchFailed properties

Property name	Value
Application name	management
Event name	OperationalStateFetchFailed
Default severity	error
Message format string	*object*: could not fetch operational state - *reason*
Cause	Fetch of the operational state fails
Effect	Incorrect operational state returned

3.2.11 OperationalStateFetchWarning

Table 25: OperationalStateFetchWarning properties

Property name	Value
Application name	management
Event name	OperationalStateFetchWarning
Default severity	warning
Message format string	*object*: warning while fetching operational state - *reason*
Cause	Warning occurs while fetching operational state
Effect	Incorrect operational state may be returned

3.3 odsa

3.3.1 MicroNetsAvailable

Table 26: MicroNetsAvailable properties

Property name	Value
Application name	odsa
Event name	MicroNetsAvailable

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Property name	Value
Default severity	informational
Message format string	network-instance *networkInstance*, pool *pool*, address-assignment-type *addressAssignmentType*: micro-nets available again
Cause	Number of available micro-nets rises above zero
Effect	Setup of new sessions no longer fails because of lack of addresses

3.3.2 MicroNetsDepleted

Table 27: MicroNetsDepleted properties

Property name	Value
Application name	odsa
Event name	MicroNetsDepleted
Default severity	warning
Message format string	network-instance *networkInstance*, pool *pool*, address-assignment-type *addressAssignmentType*: no more micro-nets
Cause	Number of available micro-nets reaches zero
Effect	Setup of new sessions fails due to lack of addresses when a new micro-net is required. To resolve this, add subnets to the pool or clear sessions to free up micro-nets.

3.3.3 MinimumFreeMicroNetsHigh

Table 28: MinimumFreeMicroNetsHigh properties

Property name	Value
Application name	odsa
Event name	MinimumFreeMicroNetsHigh
Default severity	informational
Message format string	network-instance *networkInstance*, pool *pool*, address-assignment-type *addressAssignmentType*: number of micro-nets high enough again
Cause	Number of available micro-nets rises above the rising threshold and is above the wanted minimum

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Property name	Value
Effect	None

3.3.4 MinimumFreeMicroNetsLow

Table 29: MinimumFreeMicroNetsLow properties

Property name	Value
Application name	odsa
Event name	MinimumFreeMicroNetsLow
Default severity	warning
Message format string	network-instance *networkInstance*, pool *pool*, address-assignment-type *addressAssignmentType*: running low on micro-nets
Cause	Number of available micro-nets falls below the low threshold
Effect	None

3.4 python

3.4.1 PythonScriptCompilationFailure

Table 30: PythonScriptCompilationFailure properties

Property name	Value
Application name	python
Event name	PythonScriptCompilationFailure
Default severity	warning
Message format string	Python-script '*script*' failed to compile: *err*
Cause	Invalid Python script source code
Effect	Python script is operationally down and fails immediately when executed

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3.4.2 PythonScriptExecutionError

Table 31: PythonScriptExecutionError properties

Property name	Value
Application name	python
Event name	PythonScriptExecutionError
Default severity	warning
Message format string	Python-script '*script*' terminated with an exception: *err*
Cause	Python script terminates with an exception
Effect	Python script uses the action-on-failure configuration to evaluate whether to continue the call flow

3.4.3 PythonScriptOutput

Table 32: PythonScriptOutput properties

Property name	Value
Application name	python
Event name	PythonScriptOutput
Default severity	debug
Message format string	Python-script '*script*' output: *output*
Cause	Python script generated output
Effect	Not applicable

3.4.4 PythonScriptSourceLoadError

Table 33: PythonScriptSourceLoadError properties

Property name	Value
Application name	python
Event name	PythonScriptSourceLoadError
Default severity	warning

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Property name	Value
Message format string	Python-script '*script*' failed to load: *err*
Cause	Could not fetch the Python script source code from its location
Effect	Python script is operationally down and fails immediately when executed

3.5 radius

3.5.1 RadiusCoaDisconnectMsgSendError

Table 34: RadiusCoaDisconnectMsgSendError properties

Property name	Value
Application name	radius
Event name	RadiusCoaDisconnectMsgSendError
Default severity	warning
Message format string	Due to connectivity issues, a CoA reply message could not be sent.
Cause	CoA or Disconnect reply not sent because of connectivity issues
Effect	Reply is lost

3.5.2 RadiusCoaDisconnectPacketDiscarded

Table 35: RadiusCoaDisconnectPacketDiscarded properties

Property name	Value
Application name	radius
Event name	RadiusCoaDisconnectPacketDiscarded
Default severity	warning
Message format string	A *msgType* request was discarded.
Cause	Malformed CoA or Disconnect request
Effect	CoA or Disconnect request discarded without performing the requested action

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3.5.3 RadiusCoaMessageHandlingFailed

Table 36: RadiusCoaMessageHandlingFailed properties

Property name	Value
Application name	radius
Event name	RadiusCoaMessageHandlingFailed
Default severity	warning
Message format string	A CoA Disconnect Request was not handled successfully.
Cause	CoA or Disconnect request not processed
Effect	Request is not executed or is executed incompletely

3.5.4 RadiusCoaNackSent

Table 37: RadiusCoaNackSent properties

Property name	Value
Application name	radius
Event name	RadiusCoaNackSent
Default severity	warning
Message format string	A CoA Request was not handled successfully.
Cause	Unsuccessful CoA request
Effect	Request is not executed or is executed incompletely

3.5.5 RadiusCoaOverloadEnded

Table 38: RadiusCoaOverloadEnded properties

Property name	Value
Application name	radius
Event name	RadiusCoaOverloadEnded
Default severity	warning
Message format string	CoA/Disconnect overload ended: at most *lowMark* requests in progress (*lowMarkPercent* percent of *maxInProgress*) and no request dropped

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Property name	Value
	for *holdTime*; *coaDropped* CoA and *disconnectDropped* Disconnect requests were dropped during *duration*.
Cause	In-progress CoA and Disconnect requests are at or below the low mark and no new request dropped during the hold time
Effect	The cMAG-c no longer drops new CoA and Disconnect requests

3.5.6 RadiusCoaOverloadStarted

Table 39: RadiusCoaOverloadStarted properties

Property name	Value
Application name	radius
Event name	RadiusCoaOverloadStarted
Default severity	warning
Message format string	CoA/Disconnect overload started: the maximum of *maxInProgress* requests in progress is reached, new requests are dropped without a reply.
Cause	Reached maximum number of in-progress CoA and Disconnect requests
Effect	The cMAG-c drops new CoA and Disconnect requests without a reply until the overload ends

3.5.7 RadiusDisconnectNackSent

Table 40: RadiusDisconnectNackSent properties

Property name	Value
Application name	radius
Event name	RadiusDisconnectNackSent
Default severity	warning
Message format string	A Disconnect Request was not handled successfully.
Cause	Unsuccessful Disconnect request
Effect	Request is not executed or is executed incompletely

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3.6 session-manager

3.6.1 AuthenticationADBRadiusFallback

Table 41: AuthenticationADBRadiusFallback properties

Property name	Value
Application name	session-manager
Event name	AuthenticationADBRadiusFallback
Default severity	informational
Message format string	ADB RADIUS authentication failure fallback triggered
Cause	ADB entry specifies RADIUS authentication but the configured RADIUS servers are unavailable; however, ADB RADIUS fallback is configured
Effect	Authentication uses the fallback ADB

3.6.2 DHCPv4InvalidLeaseTimes

Table 42: DHCPv4InvalidLeaseTimes properties

Property name	Value
Application name	session-manager
Event name	DHCPv4InvalidLeaseTimes
Default severity	warning
Message format string	Invalid combination of DHCPv4 renew, rebind, and lease time, fall back on default values
Cause	Invalid DHCPv4 renew, rebind, and lease time combination
Effect	Fall back on the default DHCPv4 renew, rebind, and lease time; resolve by making the timers conform to the rule where each timer must be smaller than or equal to the next one on the list

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3.6.3 DHCPv4RelayReplyDecodeFailure

Table 43: DHCPv4RelayReplyDecodeFailure properties

Property name	Value
Application name	session-manager
Event name	DHCPv4RelayReplyDecodeFailure
Default severity	error
Message format string	Could not decode DHCP message: *errorMessage*
Cause	Invalid remote DHCPv4 server reply
Effect	Message drops

3.6.4 DHCPv4RelayReplyMessageFailure

Table 44: DHCPv4RelayReplyMessageFailure properties

Property name	Value
Application name	session-manager
Event name	DHCPv4RelayReplyMessageFailure
Default severity	error
Message format string	Could not process DHCPv4 Relay server reply: *errorMessage*
Cause	Processing failure of remote DHCPv4 server reply
Effect	Message drops

3.6.5 DHCPv4RelayReplySessionNotFoundFailure

Table 45: DHCPv4RelayReplySessionNotFoundFailure properties

Property name	Value
Application name	session-manager
Event name	DHCPv4RelayReplySessionNotFoundFailure
Default severity	error
Message format string	Could not find a session corresponding to the request: *errorMessage*

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Property name	Value
Cause	corresponding session is not found for the reply received from the remote DHCPv4 server
Effect	Message drops

3.6.6 DHCPv6InvalidLifetimes

Table 46: DHCPv6InvalidLifetimes properties

Property name	Value
Application name	session-manager
Event name	DHCPv6InvalidLifetimes
Default severity	warning
Message format string	Invalid combination of DHCPv6 renew (T1), DHCPv6 rebind (T2), IPv6 preferred, and IPv6 valid lifetime, fall back on default values
Cause	Invalid DHCPv6 renew (T1), DHCPv6 rebind (T2), IPv6 preferred, and IPv6 valid lifetime combination
Effect	Fall back on the default DHCPv6 renew, DHCPv6 rebind, IPv6 preferred, and IPv6 valid lifetime; resolve by making the timers conform to the rule where each timer must be smaller than or equal to the next one on the list

3.6.7 DHCPv6RelayInvalidLifetimes

Table 47: DHCPv6RelayInvalidLifetimes properties

Property name	Value
Application name	session-manager
Event name	DHCPv6RelayInvalidLifetimes
Default severity	warning
Message format string	Invalid combination of IPv6 preferred and valid lifetime, fall back on default values
Cause	Invalid combination of IPv6 preferred and valid lifetime
Effect	Fall back on the default IPv6 preferred and valid lifetime; resolve by making the timers conform to the rule where each timer must be smaller than or equal to the next one on the list

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3.6.8 DHCPv6RelayReplyDecodeFailure

Table 48: DHCPv6RelayReplyDecodeFailure properties

Property name	Value
Application name	session-manager
Event name	DHCPv6RelayReplyDecodeFailure
Default severity	error
Message format string	Could not decode DHCPv6 message: *errorMessage*
Cause	Invalid remote DHCPv6 server reply
Effect	Message drops

3.6.9 DHCPv6RelayReplyMessageFailure

Table 49: DHCPv6RelayReplyMessageFailure properties

Property name	Value
Application name	session-manager
Event name	DHCPv6RelayReplyMessageFailure
Default severity	error
Message format string	Could not process DHCPv6 Relay server reply: *errorMessage*
Cause	Processing failure of remote DHCPv6 server reply
Effect	Message drops

3.6.10 DHCPv6RelayReplySessionNotFoundFailure

Table 50: DHCPv6RelayReplySessionNotFoundFailure properties

Property name	Value
Application name	session-manager
Event name	DHCPv6RelayReplySessionNotFoundFailure
Default severity	error
Message format string	Could not find session: *errorMessage*

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Property name	Value
Cause	corresponding session is not found for the reply received from the remote DHCPv6 server
Effect	Message drops

3.6.11 IBCPMessageDecodeFailure

Table 51: IBCPMessageDecodeFailure properties

Property name	Value
Application name	session-manager
Event name	IBCPMessageDecodeFailure
Default severity	error
Message format string	Could not decode IBCP message: *errorMessage*
Cause	Incoming IBCP message with invalid encoding
Effect	IBCP message drops; see the $errorMessage$ for more information and potential recovery actions

3.6.12 IBCPMessageFailure

Table 52: IBCPMessageFailure properties

Property name	Value
Application name	session-manager
Event name	IBCPMessageFailure
Default severity	error
Message format string	Could not process IBCP message: *errorMessage*
Cause	IBCP message processing failure during a non-setup transaction (for example, because of unreachable MAG-u)
Effect	IBCP message drops or returns with a failure status code, the transaction is not executed; see the $errorMessage$ for more information and potential recovery actions

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3.6.13 IBCPSessionSetupFailure

Table 53: IBCPSessionSetupFailure properties

Property name	Value
Application name	session-manager
Event name	IBCPSessionSetupFailure
Default severity	error
Message format string	IBCP session setup failure: *errorMessage*
Cause	IBCP message fails to trigger a session setup (for example, because of failed authentication or unreachable MAG-u)
Effect	IBCP message drops and session is not created; see the $error Message$ for more information and potential recovery actions

3.6.14 LostHostConnectivity

Table 54: LostHostConnectivity properties

Property name	Value
Application name	session-manager
Event name	LostHostConnectivity
Default severity	warning
Message format string	Lost host connectivity
Cause	SHCV timeout
Effect	Protocol stack or the session is removed

3.6.15 PFCPSessionDeletionFailed

Table 55: PFCPSessionDeletionFailed properties

Property name	Value
Application name	session-manager
Event name	PFCPSessionDeletionFailed
Default severity	warning

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Property name	Value
Message format string	PFCP session deletion failed for 15 minutes, session is deleted without informing the UPF
Cause	PFCP session deletion fails for 15 minutes (for example, because of headless)
Effect	Session is removed from the cMAG-c but not from the MAG-u; a PFCP audit is scheduled to synchronize the MAG-u and cMAG-c

3.6.16 PFCPSessionReportFailure

Table 56: PFCPSessionReportFailure properties

Property name	Value
Application name	session-manager
Event name	PFCPSessionReportFailure
Default severity	error
Message format string	PFCP Session Report failure: *errorMessage*
Cause	PFCP session report from the MAG-u fails during processing (for example, an unsupported report type is received, or an inactivity report is received from a standby MAG-u)
Effect	Report is not further processed and a response is sent to the MAG-u

3.6.17 PPPTimerEventFailure

Table 57: PPPTimerEventFailure properties

Property name	Value
Application name	session-manager
Event name	PPPTimerEventFailure
Default severity	error
Message format string	Handling PPP timeout caused session failure: *errorMessage*
Cause	A PPP protocol timer critical to the transaction expires (for example, LCP or IPCP timeout)

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Property name	Value
Effect	Transaction (for example, session setup) fails and necessary protocol errors are signaled; see the $errorMessage$ for more information and potential recovery actions

3.6.18 SessionCoAFailure

Table 58: SessionCoAFailure properties

Property name	Value
Application name	session-manager
Event name	SessionCoAFailure
Default severity	error
Message format string	CoA failed: *errorMessage*
Cause	Session CoA fails
Effect	Changes are not applied and the CoA is NACKed

3.6.19 SessionPFCPAuditFailure

Table 59: SessionPFCPAuditFailure properties

Property name	Value
Application name	session-manager
Event name	SessionPFCPAuditFailure
Default severity	error
Message format string	PFCP audit failed: *errorMessage*
Cause	PFCP session audit message fails because the MAG-u rejects the message or because the message times out for longer than the configured headless timer
Effect	Session is not audited; resolve by triggering a manual audit of the MAG-u that holds the session

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3.6.20 SessionsCleared

Table 60: SessionsCleared properties

Property name	Value
Application name	session-manager
Event name	SessionsCleared
Default severity	informational
Message format string	Cleared *numSessions* sessions
Cause	Clearing of sessions triggered by a clear command finishes
Effect	Sessions are deleted

3.6.21 SessionTimerFailure

Table 61: SessionTimerFailure properties

Property name	Value
Application name	session-manager
Event name	SessionTimerFailure
Default severity	error
Message format string	Timer event failed: *errorMessage*
Cause	A transaction that is triggered by a session timer fails (for example, because of an unreachable peer)
Effect	Timer event is ignored; the cMAG-c takes corrective actions or relies on a subsequent timer event for periodic timers (for example, RADIUS Interim Update messages); if the problem persists, see the $error Message$ for more information

3.6.22 UPFResiliencyStandbyPFCPSessionFailure

Table 62: UPFResiliencyStandbyPFCPSessionFailure properties

Property name	Value
Application name	session-manager
Event name	UPFResiliencyStandbyPFCPSessionFailure

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Property name	Value
Default severity	warning
Message format string	PFCP session creation or modification failed on the standby UPF *standbyUPFNodeID*: *failureReason*
Cause	PFCP session creation or modification fails on the standby MAG-u
Effect	Standby MAG-u is not synchronized with the most recent session state; the cMAG-c automatically retries creation or modification toward the MAG-u to resolve this

3.7 subscriber-gatekeeper

3.7.1 SessionLockoutTableAvailable

Table 63: SessionLockoutTableAvailable properties

Property name	Value
Application name	subscriber-gatekeeper
Event name	SessionLockoutTableAvailable
Default severity	informational
Message format string	session lockout table: free lockout entries available
Cause	Number of free entries in the lockout table rises above zero
Effect	Placing sessions in lockout no longer fails because of lack of free entries

3.7.2 SessionLockoutTableDepleted

Table 64: SessionLockoutTableDepleted properties

Property name	Value
Application name	subscriber-gatekeeper
Event name	SessionLockoutTableDepleted
Default severity	warning
Message format string	session lockout table: all lockout entries are in use

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Property name	Value
Cause	Number of free entries in the lockout table reaches zero
Effect	Placing new sessions in lockout fails for lack of free entries

3.7.3 SessionLockoutTableHigh

Table 65: SessionLockoutTableHigh properties

Property name	Value
Application name	subscriber-gatekeeper
Event name	SessionLockoutTableHigh
Default severity	informational
Message format string	session lockout table: free lockout entries high
Cause	Number of free lockout table entries is high enough again after running low
Effect	None

3.7.4 SessionLockoutTableLow

Table 66: SessionLockoutTableLow properties

Property name	Value
Application name	subscriber-gatekeeper
Event name	SessionLockoutTableLow
Default severity	informational
Message format string	session lockout table: running low on free lockout entries
Cause	Number of free entries in the lockout table is running low
Effect	None

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3.7.5 SessionSuspectTableAvailable

Table 67: SessionSuspectTableAvailable properties

Property name	Value
Application name	subscriber-gatekeeper
Event name	SessionSuspectTableAvailable
Default severity	informational
Message format string	session suspect table: free suspect entries available
Cause	Number of free entries in the suspect table rises above zero
Effect	Marking sessions as suspect no longer fails because of lack of free entries

3.7.6 SessionSuspectTableDepleted

Table 68: SessionSuspectTableDepleted properties

Property name	Value
Application name	subscriber-gatekeeper
Event name	SessionSuspectTableDepleted
Default severity	warning
Message format string	suspect session table: all suspect entries are in use
Cause	Number of free entries in the suspect table reaches zero
Effect	Marking new sessions as suspect fails for lack of free entries

3.7.7 SessionSuspectTableHigh

Table 69: SessionSuspectTableHigh properties

Property name	Value
Application name	subscriber-gatekeeper
Event name	SessionSuspectTableHigh
Default severity	informational

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Property name	Value
Message format string	session suspect table: free suspect entries high
Cause	Number of free suspect table entries is high enough again after running low
Effect	None

3.7.8 SessionSuspectTableLow

Table 70: SessionSuspectTableLow properties

Property name	Value
Application name	subscriber-gatekeeper
Event name	SessionSuspectTableLow
Default severity	informational
Message format string	suspect session table: running low on free suspect entries
Cause	Number of free entries in the suspect table is running low
Effect	None

3.8 upf-manager

3.8.1 BaseFunctionFeatureSetNotSupported

Table 71: BaseFunctionFeatureSetNotSupported properties

Property name	Value
Application name	upf-manager
Event name	BaseFunctionFeatureSetNotSupported
Default severity	error
Message format string	Base function feature set not supported by UPF *upfNodeId*
Cause	MAG-u does not support the base function feature set
Effect	PFCP association with the MAG-u is not established or is not released; resolve this by upgrading the MAG-u to a version that supports all these features

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3.8.2 DynamicallySignaledL2AccessIdDeletedByTimeout

Table 72: DynamicallySignaledL2AccessIdDeletedByTimeout properties

Property name	Value
Application name	upf-manager
Event name	DynamicallySignaledL2AccessIdDeletedByTimeout
Default severity	informational
Message format string	Dynamically signalled l2-access-id *l2AccessId* from UPF *upfNodeId* deleted by timeout
Cause	Dynamically-signaled Layer 2 access ID is deleted because the MAG-u no longer signals it
Effect	Layer 2 access ID is no longer tracked, and the per l2-access-id tunnel is deleted

3.8.3 FsgNetworkInstanceEndpointAddressAllocationFailure

Table 73: FsgNetworkInstanceEndpointAddressAllocationFailure properties

Property name	Value
Application name	upf-manager
Event name	FsgNetworkInstanceEndpointAddressAllocationFailure
Default severity	warning
Message format string	UP group *upGroup*, FSG *fsgID*, NetworkInstance *networkInstance* endpoint address allocation fails
Cause	Endpoint address allocation fails for an FSG network instance
Effect	Retry timer is started to allocate an endpoint address; if this repeats, investigate whether the local address pool has enough address space available

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3.8.4 FsgPfcpAssociationUpdateFailure

Table 74: FsgPfcpAssociationUpdateFailure properties

Property name	Value
Application name	upf-manager
Event name	FsgPfcpAssociationUpdateFailure
Default severity	error
Message format string	PFCP AssociationUpdate exchange with UPF *upfNodeId* failed for FSG *fsgID* (UP group *upGroup*): *errorMessage*
Cause	PFCP Association Update exchange to synchronize the fate sharing group (FSG) with the MAG-u is unsuccessful
Effect	The cMAG-c retries the failed operation to synchronize the FSG with the MAG-u; see the $errorMessage$ for more information and potential recovery actions

3.8.5 FsgUpfEndpointError

Table 75: FsgUpfEndpointError properties

Property name	Value
Application name	upf-manager
Event name	FsgUpfEndpointError
Default severity	error
Message format string	UP group *upGroup*, FSG *fsgID*, NetworkInstance *networkInstance*, PFCP UP Subscriber Prefix *operation* failed for *endpointAddr* on UPF *upfNodeID*: *failureReasondetailedFailureReason*
Cause	MAG-u reports an error in the response to a PFCP UP Subscriber Prefix create, modify, or delete request of an endpoint address
Effect	Endpoint address is not installed on MAG-u and the retry timer is started; if this repeats, investigate the error details to resolve the PFCP UP subscriber prefix signaling issue

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3.8.6 NewDynamicallySignaledL2AccessIdDropped

Table 76: NewDynamicallySignaledL2AccessIdDropped properties

Property name	Value
Application name	upf-manager
Event name	NewDynamicallySignaledL2AccessIdDropped
Default severity	warning
Message format string	New dynamically signalled l2-access-id *l2AccessId* from UPF *upfNode Id* dropped
Cause	New dynamically-signaled Layer 2 access ID is ignored because the maximum limit is reached
Effect	Health of the new Layer 2 access ID is not tracked and no per-port tunnel is established; resolve this by reducing the number of 'l2-access-id' entries on the MAG-u

3.8.7 NewDynamicallySignaledNetworkInstanceDropped

Table 77: NewDynamicallySignaledNetworkInstanceDropped properties

Property name	Value
Application name	upf-manager
Event name	NewDynamicallySignaledNetworkInstanceDropped
Default severity	warning
Message format string	New dynamically signalled network instance *networkInstance* from UPF *upfNodeId* dropped
Cause	New dynamically-signaled network instances is ignored because the maximum limit is reached
Effect	Network instance health is not tracked; resolve this by reducing the number of network-instances on the MAG-u

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3.8.8 PFCPAssociationFailure

Table 78: PFCPAssociationFailure properties

Property name	Value
Application name	upf-manager
Event name	PFCPAssociationFailure
Default severity	error
Message format string	PFCP *pfcpMessage* exchange with UPF *upfNodeId* failed: *error Message*
Cause	PFCP association message exchange is unsuccessful
Effect	MAG-u does not successfully process the message; see the $error Message$ for more information and potential recovery actions

3.8.9 PFCPDefaultSessionFailure

Table 79: PFCPDefaultSessionFailure properties

Property name	Value
Application name	upf-manager
Event name	PFCPDefaultSessionFailure
Default severity	error
Message format string	PFCP *pfcpMessage* exchange with UPF *upfNodeId* failed for default session with sessionID *sessionId*: *errorMessage*
Cause	PFCP default session message exchange is unsuccessful
Effect	MAG-u does not successfully process the message; see the $error Message$ for more information and potential recovery actions

3.8.10 PFCPStaleRecoveryTimestamp

Table 80: PFCPStaleRecoveryTimestamp properties

Property name	Value
Application name	upf-manager
Event name	PFCPStaleRecoveryTimestamp

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Property name	Value
Default severity	warning
Message format string	PFCP Heartbeat Response from UPF *upfNodeId* discarded: received recovery time stamp *receivedRecoveryTimestamp* is older than the stored recovery time stamp *storedRecoveryTimestamp*
Cause	Received PFCP Heartbeat Response from MAG-u with recovery time stamp older than previously stored value
Effect	The cMAG-c discards the received message and recovery time stamp without affect to the PFCP association and path and without treating MAG-u as restarted; if this recurs, investigate possible message reordering or clock issue on the MAG-u

3.8.11 UpfAuditAbort

Table 81: UpfAuditAbort properties

Property name	Value
Application name	upf-manager
Event name	UpfAuditAbort
Default severity	informational
Message format string	PFCP Audit with UPF *upfNodeId* aborted: *cause*
Cause	MAG-u audit aborts; for example, because of a signaling failure, bringing the PFCP association or PFCP path down, or a more recent audit request is received
Effect	Ongoing MAG-u audit aborts; a newer audit starts or is scheduled if the PFCP association is up

3.8.12 UpfAuditEnd

Table 82: UpfAuditEnd properties

Property name	Value
Application name	upf-manager
Event name	UpfAuditEnd
Default severity	informational
Message format string	PFCP Audit with *upfNodeId* ended

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Property name	Value
Cause	MAG-u audit ends
Effect	All MAG-u sessions and fate sharing groups (FSGs) are audited

3.8.13 UpfAuditEndFailure

Table 83: UpfAuditEndFailure properties

Property name	Value
Application name	upf-manager
Event name	UpfAuditEndFailure
Default severity	error
Message format string	PFCP Audit with UPF *upfNodeId* not ended: *errorMessage*
Cause	Signaling the end message of a MAG-u PFCP audit fails
Effect	The cMAG-c reschedules the PFCP audit because it does not successfully complete; see the $errorMessage$ for more information and potential recovery actions

3.8.14 UpfAuditInitiated

Table 84: UpfAuditInitiated properties

Property name	Value
Application name	upf-manager
Event name	UpfAuditInitiated
Default severity	informational
Message format string	PFCP Audit with UPF *upfNodeId* initiated: trigger *trigger*
Cause	MAG-u audit initiates
Effect	All sessions and FSGs in the MAG-u are audited

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3.8.15 UpfAuditStartFailure

Table 85: UpfAuditStartFailure properties

Property name	Value
Application name	upf-manager
Event name	UpfAuditStartFailure
Default severity	error
Message format string	PFCP Audit with UPF *upfNodeId* not started: *errorMessage*
Cause	Signaling the start message of a MAG-u PFCP audit fails
Effect	PFCP audit does not start; audit is rescheduled; see the $error Message$ for more information and potential recovery actions

3.8.16 UpfPartialAuditAbort

Table 86: UpfPartialAuditAbort properties

Property name	Value
Application name	upf-manager
Event name	UpfPartialAuditAbort
Default severity	informational
Message format string	PFCP Partial Audit with UPF *upfNodeId* aborted: *cause*
Cause	Partial MAG-u audit aborts; for example, because of signaling failures or bringing the PFCP association or PFCP path down
Effect	Ongoing partial MAG-u audit aborts; a full audit starts or is scheduled if the PFCP association is up

3.8.17 UpfPartialAuditEnd

Table 87: UpfPartialAuditEnd properties

Property name	Value
Application name	upf-manager
Event name	UpfPartialAuditEnd

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Property name	Value
Default severity	informational
Message format string	PFCP Partial Audit with *upfNodeId* ended
Cause	Partial MAG-u audit ends
Effect	All requested sessions in the MAG-u are audited

3.8.18 UpfPartialAuditScheduledByAuditPod

Table 88: UpfPartialAuditScheduledByAuditPod properties

Property name	Value
Application name	upf-manager
Event name	UpfPartialAuditScheduledByAuditPod
Default severity	informational
Message format string	PFCP Partial Audit with UPF *upfNodeId* started on audit pod request
Cause	Audit pod initiates partial MAG-u audit
Effect	A set of sessions that are potentially out-of-sync in the MAG-u are audited

3.8.19 UpfPartialAuditStart

Table 89: UpfPartialAuditStart properties

Property name	Value
Application name	upf-manager
Event name	UpfPartialAuditStart
Default severity	informational
Message format string	PFCP Partial Audit with UPF *upfNodeId* initiated
Cause	Partial MAG-u audit starts
Effect	A selection of sessions in the MAG-u are audited

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3.8.20 UpfResiliencyFsgUpfChange

Table 90: UpfResiliencyFsgUpfChange properties

Property name	Value
Application name	upf-manager
Event name	UpfResiliencyFsgUpfChange
Default severity	informational
Message format string	UP group *upGroup*, FSG *fsgID*, active UPF *activeUPFNodeID* (health *activeUPFHealth*), standby UPF *standbyUPFNodeID* (health *standbyUPFHealth*), previous active UPF *previousActiveUPFNodeID*, previous standby UPF *previousStandbyUPFNodeID*
Cause	Active or standby MAG-u of an FSG changes
Effect	If the active MAG-u changes, traffic associated with the FSG goes through the new active MAG-u, or if only the standby MAG-u changes, hot standby sessions are downloaded to the new standby MAG-U and removed from the old standby MAG-u

3.8.21 UpfResiliencyFsgUpfError

Table 91: UpfResiliencyFsgUpfError properties

Property name	Value
Application name	upf-manager
Event name	UpfResiliencyFsgUpfError
Default severity	error
Message format string	UP group *upGroup*, FSG *fsgID*, PFCP SGRP *operation* failed on *role* UPF *upfNodeID*: *failureReasondetailedFailureReason*
Cause	MAG-u reports an error in response to a PFCP SGRP create, modify, or delete request of an FSG
Effect	MAG-u is placed in failure lockout, potentially changing its active/standby state, and cMAG-c automatically disables the lockout to allow the MAG-u to become active/standby again; if this repeats, investigate the error details to resolve the PFCP SGRP signaling issue

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3.8.22 UpfResiliencyFsgUpfHealthy

Table 92: UpfResiliencyFsgUpfHealthy properties

Property name	Value
Application name	upf-manager
Event name	UpfResiliencyFsgUpfHealthy
Default severity	informational
Message format string	UP group *upGroup*, FSG *fsgID*, *role* UPF *upfNodeID* has become healthy
Cause	MAG-u health rises above, or is equal to, the failure threshold health
Effect	MAG-u is not considered fully failed

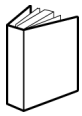
3.8.23 UpfResiliencyFsgUpfNotHealthy

Table 93: UpfResiliencyFsgUpfNotHealthy properties

Property name	Value
Application name	upf-manager
Event name	UpfResiliencyFsgUpfNotHealthy
Default severity	informational
Message format string	UP group *upGroup*, FSG *fsgID*, *role* UPF *upfNodeID* has become not healthy
Cause	MAG-u health falls below the failure threshold health
Effect	MAG-u is considered failed; If the MAG-u was active and non-revertive settings (active-change-without-failure false) are enabled, the MAG-u may now become standby

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