# Nokia Service Router Linux
# 7215 Interconnect System
# 7220 Interconnect Router
# 7250 Interconnect Router

Release 26.10

## Log Events Guide

3HE 22251 AAAC TQZZA
Edition: 01
November 2026

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# Table of contents

**1 About this guide ..... 25**
1.1 Precautionary and information messages ..... 25
1.2 Conventions ..... 25

**2 Log events overview ..... 27**
2.1 Log event format ..... 27
2.2 Example log event ..... 28

**3 What's new ..... 30**

**4 aaa ..... 32**
4.1 serverDown ..... 32
4.2 serverGroupDown ..... 32
4.3 serverGroupUp ..... 33
4.4 serverRouteUnavailable ..... 33
4.5 serverTimeout ..... 34
4.6 serverUp ..... 34
4.7 sessionClosed ..... 35
4.8 sessionDisconnected ..... 35
4.9 sessionIdleDisconnected ..... 36
4.10 sessionOpened ..... 36
4.11 systemDateAndTimeChangedByUser ..... 37
4.12 tacacsRoleInvalid ..... 37
4.13 tlsCryptoElementChanged ..... 38
4.14 userAuthenticationFailed ..... 38
4.15 userAuthenticationSucceeded ..... 39
4.16 userAuthenticationTimedOut ..... 39
4.17 userLockoutReset ..... 40
4.18 userLockoutSet ..... 40
4.19 userPasswordChanged ..... 41
4.20 userPasswordExpired ..... 41

**5 app ..... 42**
5.1 applicationFailed ..... 42


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5.2 applicationFailureActionTriggered ... 42
5.3 applicationRestarted ... 43
5.4 applicationRestarting ... 43
5.5 applicationStarted ... 44
5.6 applicationStarting ... 44
5.7 applicationStopped ... 45
5.8 applicationStopping ... 45

**6 acl ... 46**
6.1 aclCpmIpv4MatchedPacket ... 46
6.2 aclCpmIpv6MatchedPacket ... 46
6.3 aclInterfaceInputIpv4MatchedPacket ... 47
6.4 aclInterfaceInputIpv6MatchedPacket ... 47
6.5 aclInterfaceOutputIpv4MatchedPacket ... 48
6.6 aclInterfaceOutputIpv6MatchedPacket ... 48
6.7 aclTcamProgComplete ... 49
6.8 platformAclHighUtilization ... 49
6.9 platformAclHighUtilizationLowered ... 50
6.10 platformTcamHighUtilization ... 51
6.11 platformTcamHighUtilizationLowered ... 51

**7 arpnd ... 52**
7.1 ipArpEntryUpdated ... 52
7.2 ipSubinterfaceDuplicateIpv4Address ... 52
7.3 ipSubinterfaceDuplicateIpv6Address ... 53
7.4 ipSubinterfaceDuplicateMacAddress ... 53
7.5 ipSubinterfaceInvalidArp ... 54
7.6 ipSubinterfaceInvalidIpv6NeighborSolicitation ... 54
7.7 ipv6NeighborEntryUpdated ... 55
7.8 ipv6NeighborSubinterfaceLimit ... 55
7.9 ipv6NeighborSubinterfaceLimitThreshold ... 56

**8 bfd ... 57**
8.1 bfdDownEvent ... 57
8.2 bfdMaxSessionActive ... 57
8.3 bfdProtocolClientAdd ... 58


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8.4 bfdProtocolClientRemove....58
8.5 bfdSessionDeleted....59
8.6 bfdSessionUp....60
8.7 bfdWarmrebootAdjustTimers....60
8.8 bfdWarmrebootRestoreTimers....61
8.9 microbfdDownEvent....61
8.10 microbfdMaxSessionActive....62
8.11 microbfdSessionDeleted....62
8.12 microbfdSessionUp....63
8.13 sbfdechoDownEvent....63
8.14 sbfdechoMaxSessionActive....64
8.15 sbfdechoSessionDeleted....65
8.16 sbfdechoSessionUp....65

**9 bgp....66**
9.1 bgpIncomingDynamicPeerLimitReached....66
9.2 bgpIncomingInterfaceDynamicPeerLimitReached....66
9.3 bgpInstanceConvergenceStateTransition....67
9.4 bgpLowMemory....67
9.5 bgpNeighborBackwardTransition....68
9.6 bgpNeighborClosedTCPConn....68
9.7 bgpNeighborEstablished....69
9.8 bgpNeighborGRHelpingStarted....69
9.9 bgpNeighborGRHelpingStopped....70
9.10 bgpNeighborHoldTimeExpired....70
9.11 bgpNeighborInvalidLocalIP....71
9.12 bgpNeighborNoOpenReceived....71
9.13 bgpNeighborPrefixLimitReached....72
9.14 bgpNeighborPrefixLimitThresholdReached....72
9.15 bgpNeighborUnknownRemoteIP....73
9.16 bgpNLRIInvalid....74
9.17 bgpNotificationReceivedFromNeighbor....74
9.18 bgpNotificationSentToNeighbor....75
9.19 bgpOutgoingDynamicPeerLimitReached....75
9.20 bgpPathAttributeDiscarded....76
9.21 bgpPathAttributeMalformed....76


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9.22 bgpRouteWithdrawnDueToError....77
9.23 bgpUpdateInvalid....77
9.24 bmpPeerMonitoringStarted....78
9.25 bmpPeerMonitoringStopped....78
9.26 bmpSessionClosed....79
9.27 bmpSessionEstablished....79
9.28 malformedUpdatesBufferFull....80
9.29 malformedUpdatesEntriesEvicted....80

**10 bridgetable....82**
10.1 evpnMplsBgpInstanceBridgeTableMulticastDestinationsLimitHighUtilization....82
10.2 evpnMplsBgpInstanceBridgeTableMulticastDestinationsLimitHighUtilizationLowered....82
10.3 evpnMplsBgpInstanceBridgeTableMulticastDestinationsLimitLowered....83
10.4 evpnMplsBgpInstanceBridgeTableMulticastDestinationsLimitReached....84
10.5 l2ConnectionpointBridgeTableDuplicateMacAddressDeleted....84
10.6 l2ConnectionpointBridgeTableDuplicateMacAddressDetected....85
10.7 l2ConnectionpointBridgeTableMacLimitHighUtilization....85
10.8 l2ConnectionpointBridgeTableMacLimitHighUtilizationLowered....86
10.9 l2ConnectionpointBridgeTableMacLimitLowered....86
10.10 l2ConnectionpointBridgeTableMacLimitReached....87
10.11 l2SubinterfaceBridgeTableDuplicateMacAddressDeleted....87
10.12 l2SubinterfaceBridgeTableDuplicateMacAddressDetected....88
10.13 l2SubinterfaceBridgeTableMacLimitHighUtilization....89
10.14 l2SubinterfaceBridgeTableMacLimitHighUtilizationLowered....89
10.15 l2SubinterfaceBridgeTableMacLimitLowered....90
10.16 l2SubinterfaceBridgeTableMacLimitReached....90
10.17 networkInstanceBridgeTableDuplicateMacAddressDeleted....91
10.18 networkInstanceBridgeTableDuplicateMacAddressDetected....91
10.19 networkInstanceBridgeTableMacLimitHighUtilization....92
10.20 networkInstanceBridgeTableMacLimitHighUtilizationLowered....92
10.21 networkInstanceBridgeTableMacLimitLowered....93
10.22 networkInstanceBridgeTableMacLimitReached....94
10.23 networkInstanceBridgeTableProxyArpLimitHighUtilization....94
10.24 networkInstanceBridgeTableProxyArpLimitHighUtilizationLowered....95
10.25 networkInstanceBridgeTableProxyArpNdDuplicateIpAddressDeleted....95
10.26 networkInstanceBridgeTableProxyArpNdDuplicateIpAddressDetected....96


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10.27 networkInstanceBridgeTableProxyNdLimitHighUtilization ... 96
10.28 networkInstanceBridgeTableProxyNdLimitHighUtilizationLowered ... 97
10.29 systemBridgeTableMacLimitHighUtilization ... 97
10.30 systemBridgeTableMacLimitHighUtilizationLowered ... 98
10.31 systemBridgeTableMacLimitLowered ... 98
10.32 systemBridgeTableMacLimitReached ... 99
10.33 systemBridgeTableProxyArpLimitHighUtilization ... 99
10.34 systemBridgeTableProxyArpLimitHighUtilizationLowered ... 100
10.35 systemBridgeTableProxyNdLimitHighUtilization ... 100
10.36 systemBridgeTableProxyNdLimitHighUtilizationLowered ... 101
10.37 systemMulticastIdLimitHighUtilization ... 102
10.38 systemMulticastIdLimitHighUtilizationLowered ... 102
10.39 vxlanInterfaceBridgeTableMulticastDestinationsLimitHighUtilization ... 103
10.40 vxlanInterfaceBridgeTableMulticastDestinationsLimitHighUtilizationLowered ... 103
10.41 vxlanInterfaceBridgeTableMulticastDestinationsLimitLowered ... 104
10.42 vxlanInterfaceBridgeTableMulticastDestinationsLimitReached ... 104

**11 chassis ... 106**
11.1 alarmInput1StateCleared ... 106
11.2 alarmInput1StateRaised ... 106
11.3 alarmInput2StateCleared ... 107
11.4 alarmInput2StateRaised ... 107
11.5 alarmInput3StateCleared ... 108
11.6 alarmInput3StateRaised ... 108
11.7 alarmInput4StateCleared ... 109
11.8 alarmInput4StateRaised ... 109
11.9 interfaceStormControlRateReached ... 110
11.10 olsTransceiverAmplifierHighGainAlarm ... 111
11.11 olsTransceiverAmplifierHighGainAlarmClear ... 111
11.12 olsTransceiverAmplifierHighGainWarning ... 112
11.13 olsTransceiverAmplifierHighGainWarningClear ... 112
11.14 olsTransceiverAmplifierHighInputPowerAlarm ... 113
11.15 olsTransceiverAmplifierHighInputPowerAlarmClear ... 113
11.16 olsTransceiverAmplifierHighInputPowerWarning ... 114
11.17 olsTransceiverAmplifierHighInputPowerWarningClear ... 114
11.18 olsTransceiverAmplifierHighOutputPowerAlarm ... 115


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11.19 olsTransceiverAmplifierHighOutputPowerAlarmClear ... 115
11.20 olsTransceiverAmplifierHighOutputPowerWarning ... 116
11.21 olsTransceiverAmplifierHighOutputPowerWarningClear ... 116
11.22 olsTransceiverAmplifierHighTempAlarm ... 117
11.23 olsTransceiverAmplifierHighTempAlarmClear ... 117
11.24 olsTransceiverAmplifierHighTempWarning ... 118
11.25 olsTransceiverAmplifierHighTempWarningClear ... 118
11.26 olsTransceiverAmplifierLowGainAlarm ... 119
11.27 olsTransceiverAmplifierLowGainAlarmClear ... 119
11.28 olsTransceiverAmplifierLowGainWarning ... 120
11.29 olsTransceiverAmplifierLowGainWarningClear ... 120
11.30 olsTransceiverAmplifierLowInputPowerAlarm ... 121
11.31 olsTransceiverAmplifierLowInputPowerAlarmClear ... 121
11.32 olsTransceiverAmplifierLowInputPowerWarning ... 122
11.33 olsTransceiverAmplifierLowInputPowerWarningClear ... 122
11.34 olsTransceiverAmplifierLowOutputPowerAlarm ... 123
11.35 olsTransceiverAmplifierLowOutputPowerAlarmClear ... 123
11.36 olsTransceiverAmplifierLowOutputPowerWarning ... 124
11.37 olsTransceiverAmplifierLowOutputPowerWarningClear ... 124
11.38 olsTransceiverAmplifierLowTempAlarm ... 125
11.39 olsTransceiverAmplifierLowTempAlarmClear ... 125
11.40 olsTransceiverAmplifierLowTempWarning ... 126
11.41 olsTransceiverAmplifierLowTempWarningClear ... 126
11.42 platformDatapathResourceHighUtilization ... 127
11.43 platformDatapathResourceHighUtilizationLowered ... 127
11.44 platformDatapathResourceLimitCleared ... 128
11.45 platformDatapathResourceLimitReached ... 128
11.46 platformMtuHighUtilization ... 129
11.47 platformMtuHighUtilizationLowered ... 129
11.48 platformPipelineResourceHighUtilization ... 130
11.49 platformPipelineResourceHighUtilizationLowered ... 130
11.50 platformPipelineResourceLimitCleared ... 131
11.51 platformPipelineResourceLimitReached ... 131
11.52 portDown ... 132
11.53 portEtherCrcMonAlarmClear ... 132
11.54 portEtherCrcMonAlarmSet ... 133


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11.55 portEtherSymMonAlarmClear ... 133
11.56 portEtherSymMonAlarmSet ... 134
11.57 portUp ... 134
11.58 secureBootDisabled ... 135
11.59 secureBootEnabled ... 135
11.60 secureBootModDatasetInconsistent ... 136
11.61 secureBootModDatasetNotPresent ... 136
11.62 secureBootRevokeUpdateRecommended ... 137
11.63 secureBootVariablesConsistent ... 137
11.64 secureBootVarsUpdateRecommended ... 138
11.65 subinterfaceDown ... 138
11.66 subinterfaceUp ... 139
11.67 systemResourceHighUtilization ... 139
11.68 systemResourceHighUtilizationLowered ... 140
11.69 systemResourceLimitCleared ... 140
11.70 systemResourceLimitReached ... 141
11.71 transceiverChannelHighInputPowerAlarm ... 141
11.72 transceiverChannelHighInputPowerAlarmClear ... 142
11.73 transceiverChannelHighInputPowerWarning ... 142
11.74 transceiverChannelHighInputPowerWarningClear ... 143
11.75 transceiverChannelHighLaserBiasCurrentAlarm ... 143
11.76 transceiverChannelHighLaserBiasCurrentAlarmClear ... 144
11.77 transceiverChannelHighLaserBiasCurrentWarning ... 144
11.78 transceiverChannelHighLaserBiasCurrentWarningClear ... 145
11.79 transceiverChannelHighOutputPowerAlarm ... 145
11.80 transceiverChannelHighOutputPowerAlarmClear ... 146
11.81 transceiverChannelHighOutputPowerWarning ... 146
11.82 transceiverChannelHighOutputPowerWarningClear ... 147
11.83 transceiverChannelLowInputPowerAlarm ... 147
11.84 transceiverChannelLowInputPowerAlarmClear ... 148
11.85 transceiverChannelLowInputPowerWarning ... 148
11.86 transceiverChannelLowInputPowerWarningClear ... 149
11.87 transceiverChannelLowLaserBiasCurrentAlarm ... 149
11.88 transceiverChannelLowLaserBiasCurrentAlarmClear ... 150
11.89 transceiverChannelLowLaserBiasCurrentWarning ... 150
11.90 transceiverChannelLowLaserBiasCurrentWarningClear ... 151


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11.91 transceiverChannelLowOutputPowerAlarm ... 151
11.92 transceiverChannelLowOutputPowerAlarmClear ... 152
11.93 transceiverChannelLowOutputPowerWarning ... 152
11.94 transceiverChannelLowOutputPowerWarningClear ... 153
11.95 transceiverHighInputPowerAlarm ... 153
11.96 transceiverHighInputPowerAlarmClear ... 154
11.97 transceiverHighInputPowerWarning ... 154
11.98 transceiverHighInputPowerWarningClear ... 155
11.99 transceiverHighLaserBiasCurrentAlarm ... 155
11.100 transceiverHighLaserBiasCurrentAlarmClear ... 156
11.101 transceiverHighLaserBiasCurrentWarning ... 156
11.102 transceiverHighLaserBiasCurrentWarningClear ... 157
11.103 transceiverHighOutputPowerAlarm ... 157
11.104 transceiverHighOutputPowerAlarmClear ... 158
11.105 transceiverHighOutputPowerWarning ... 158
11.106 transceiverHighOutputPowerWarningClear ... 159
11.107 transceiverLowInputPowerAlarm ... 159
11.108 transceiverLowInputPowerAlarmClear ... 160
11.109 transceiverLowInputPowerWarning ... 160
11.110 transceiverLowInputPowerWarningClear ... 161
11.111 transceiverLowLaserBiasCurrentAlarm ... 161
11.112 transceiverLowLaserBiasCurrentAlarmClear ... 162
11.113 transceiverLowLaserBiasCurrentWarning ... 162
11.114 transceiverLowLaserBiasCurrentWarningClear ... 163
11.115 transceiverLowOutputPowerAlarm ... 163
11.116 transceiverLowOutputPowerAlarmClear ... 164
11.117 transceiverLowOutputPowerWarning ... 164
11.118 transceiverLowOutputPowerWarningClear ... 165
11.119 transceiverModuleDown ... 165
11.120 transceiverModuleHighTemperatureAlarm ... 166
11.121 transceiverModuleHighTemperatureAlarmClear ... 166
11.122 transceiverModuleHighTemperatureWarning ... 167
11.123 transceiverModuleHighTemperatureWarningClear ... 167
11.124 transceiverModuleHighVoltageAlarm ... 168
11.125 transceiverModuleHighVoltageAlarmClear ... 168
11.126 transceiverModuleHighVoltageWarning ... 169


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11.127 transceiverModuleHighVoltageWarningClear ... 169
11.128 transceiverModuleLowTemperatureAlarm ... 170
11.129 transceiverModuleLowTemperatureAlarmClear ... 170
11.130 transceiverModuleLowTemperatureWarning ... 171
11.131 transceiverModuleLowTemperatureWarningClear ... 171
11.132 transceiverModuleLowVoltageAlarm ... 172
11.133 transceiverModuleLowVoltageAlarmClear ... 172
11.134 transceiverModuleLowVoltageWarning ... 173
11.135 transceiverModuleLowVoltageWarningClear ... 173
11.136 transceiverModuleUp ... 174

**12 debug ... 175**
12.1 setAllConfigLevels ... 175
12.2 setAllStartupLevels ... 175
12.3 setHighBaselineLogLevels ... 176

**13 dhcp ... 177**
13.1 dhcp6ClientAddressDeclined ... 177
13.2 dhcp6ClientIpv6AddressValidLifetimeExpired ... 177
13.3 dhcp6ClientRebindAttempted ... 178
13.4 dhcp6ClientReconfigureMsgDropped ... 178
13.5 dhcp6ClientRenewSuccess ... 179
13.6 dhcpClientAddressDeclined ... 179
13.7 dhcpClientLeaseExpired ... 180
13.8 dhcpClientRebindAttempted ... 180
13.9 dhcpClientRenewSuccess ... 181
13.10 dhcpv4RelayAdminDisable ... 181
13.11 dhcpv4RelayAdminEnable ... 182
13.12 dhcpv4RelayAllDhcpv4ServersUnreachable ... 182
13.13 dhcpv4RelayOperDown ... 183
13.14 dhcpv4RelayOperUp ... 183
13.15 dhcpv6RelayAdminDisable ... 184
13.16 dhcpv6RelayAdminEnable ... 184
13.17 dhcpv6RelayAllDhcpv6ServersUnreachable ... 185
13.18 dhcpv6RelayOperDown ... 186
13.19 dhcpv6RelayOperUp ... 186


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13.20 giAddressMismatch....187
13.21 sourceAddressMismatch.... 187

**14 ethcfm.... 188**
14.1 ClearErrorCcm.... 188
14.2 ClearLOC.... 188
14.3 ClearMacStatus.... 189
14.4 ClearMMG....189
14.5 ClearRDI.... 190
14.6 ClearRemoteCcm.... 190
14.7 ClearRemoteDefectIndication.... 191
14.8 clearTwoWaySlmAvgflrTCA.... 191
14.9 clearTwoWaySlmHliTCA.... 192
14.10 clearTwoWaySlmUnavailTCA.... 192
14.11 ClearUNL.... 193
14.12 ClearUNM.... 193
14.13 ClearUNP....194
14.14 ClearXconCcm....194
14.15 linktraceCompleted.... 195
14.16 loopbackCompleted.... 195
14.17 RaiseErrorCcm.... 196
14.18 RaiseLOC.... 197
14.19 RaiseMacStatus....197
14.20 RaiseMMG.... 198
14.21 RaiseRDI....198
14.22 RaiseRemoteCcm....199
14.23 RaiseRemoteDefectIndication.... 199
14.24 raiseTwoWaySlmAvgflrTCA....200
14.25 raiseTwoWaySlmHliTCA....200
14.26 raiseTwoWaySlmUnavailTCA....201
14.27 RaiseUNL....201
14.28 RaiseUNM....202
14.29 RaiseUNP.... 202
14.30 RaiseXconCcm.... 203
14.31 singleEndedDmmCompleted.... 203
14.32 singleEndedSlmCompleted.... 204


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14.33 TwoWaySlmAvailabilityState....204

**15 evpn....206**

15.1 ethernetsegmentNetworkInstanceBgpInstanceDfStatusChanged....206
15.2 ethernetsegmentPreferenceOperValueChanged....206
15.3 evpnAutoDiscoveryEviRouteAddDroppedDueToUnexpectedEthTag....207
15.4 evpnAutoDiscoveryEviRouteWithdrawDroppedDueToUnexpectedEthTag....207
15.5 evpnAutoDiscoveryEviRouteWithdrawnDueToUnexpectedVni....208
15.6 evpnInclMcastRouteAddDroppedDueToUnexpectedEthTag....209
15.7 evpnInclMcastRouteWithdrawDroppedDueToUnexpectedEthTag....209
15.8 evpnInclMcastRouteWithdrawnDueToUnexpectedVni....210
15.9 evpnIpPrefixRouteNotImportedDueToUnexpectedVni....211
15.10 evpnIpPrefixRouteWithdrawnDueToNoGwMac....211
15.11 evpnIpPrefixRouteWithdrawnDueToUnexpectedGwIp....212
15.12 evpnMacRouteAddDroppedDueToUnexpectedEthTag....213
15.13 evpnMacRouteWithdrawDroppedDueToUnexpectedEthTag....213
15.14 evpnMacRouteWithdrawnDueToUnexpectedVni....214
15.15 evpnNetworkInstanceCwMismatch....215
15.16 evpnNetworkInstanceCwMismatchCleared....215
15.17 evpnNetworkInstanceFlowLabelMismatch....216
15.18 evpnNetworkInstanceFlowLabelMismatchCleared....217
15.19 evpnNetworkInstanceMtuMismatch....217
15.20 evpnNetworkInstanceMtuMismatchCleared....218
15.21 evpnNetworkInstanceNoL2Attributes....219
15.22 evpnNetworkInstanceNoL2AttributesCleared....219
15.23 evpnVxlanAutoDiscoveryEviRouteWithdrawnDueToNextHopTypeMismatch....220
15.24 evpnVxlanIpPrefixRouteWithdrawnDueToNextHopTypeMismatch....221
15.25 evpnVxlanMacIpRouteWithdrawnDueToNextHopTypeMismatch....221

**16 fib....223**

16.1 netInstanceRouteLimitAlarmClear....223
16.2 netInstanceRouteLimitAlarmSet....223

**17 gnsi....225**

17.1 gnsiAcctzSubscriptionEnd....225
17.2 gnsiAcctzSubscriptionRequestReceived....225


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17.3 gnsiAcctzSubscriptionStart ... 226
17.4 gnsiAuthzPolicyFinalized ... 226
17.5 gnsiAuthzPolicyInvalid ... 227
17.6 gnsiAuthzPolicyNotFinalized ... 227
17.7 gnsiAuthzPolicyRotate ... 228
17.8 gnsiCertzRotate ... 228
17.9 gnsiCertzRotateFinalized ... 229
17.10 gnsiCertzRotateInvalid ... 230
17.11 gnsiCertzRotateNotFinalized ... 230
17.12 gnsiCredentialzRotateAccountCredentials ... 231
17.13 gnsiCredentialzRotateAccountCredentialsFinalized ... 231
17.14 gnsiCredentialzRotateAccountCredentialsInvalid ... 232
17.15 gnsiCredentialzRotateAccountCredentialsNotFinalized ... 232
17.16 gnsiCredentialzRotateHostParameters ... 233
17.17 gnsiCredentialzRotateHostParametersFinalized ... 233
17.18 gnsiCredentialzRotateHostParametersInvalid ... 234
17.19 gnsiCredentialzRotateHostParametersNotFinalized ... 234
17.20 gnsiPathzPolicyFinalized ... 235
17.21 gnsiPathzPolicyInvalid ... 235
17.22 gnsiPathzPolicyNotFinalized ... 236
17.23 gnsiPathzPolicyRotate ... 237

**18 grpc ... 238**
18.1 configUpdate ... 238
18.2 grpcServerStart ... 238
18.3 grpcServerStop ... 239
18.4 subscriptionEnd ... 239
18.5 subscriptionRequestReceived ... 240
18.6 subscriptionStart ... 240
18.7 unixSocketGrpcOperDown ... 241
18.8 unixSocketGrpcOperUp ... 241

**19 igmp ... 242**
19.1 igmpCModeRxQueryVersionMismatch ... 242
19.2 igmpMaxNumberOfGroupSourcesReached ... 242
19.3 igmpMaxNumberOfGroupsReached ... 243


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19.4 igmpMaxNumberOfSourcesReached....243
19.5 igmpRxQueryVersionMismatch....244

**20 isis....245**
20.1 isisAdjacencyBfdSessionSetupFailed....245
20.2 isisAdjacencyChange....245
20.3 isisAdjacencyRestartStatusChange....246
20.4 isisAreaMismatch....246
20.5 isisAuthDataFail....247
20.6 isisAuthTypeMismatch....247
20.7 isisCircuitIdsExhausted....248
20.8 isisCircuitMtuTooLow....248
20.9 isisCorruptedLspDetected....249
20.10 isisLdpSyncExited....249
20.11 isisLdpSyncTimerStarted....250
20.12 isisLspFragmentTooLarge....251
20.13 isisLspPurge....251
20.14 isisLspSequenceNumberSkip....252
20.15 isisMaxAreaAddressesMismatch....252
20.16 isisMaxLspSequenceNumberExceeded....253
20.17 isisMultiPartTlvReceived....253
20.18 isisMultiPartTlvTruncated....254
20.19 isisOverloadEntry....254
20.20 isisOverloadExit....255
20.21 isisOwnLspPurge....255
20.22 isisSystemIdLengthMismatch....256
20.23 isisVersionMismatch....256

**21 json....258**
21.1 authenticationError....258
21.2 authenticationErrorSpiffe....258
21.3 globalConfigUpdate....259
21.4 httpJsonRpcOperDown....259
21.5 httpJsonRpcOperUp....260
21.6 httpsJsonRpcOperDown....260
21.7 httpsJsonRpcOperUp....261


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21.8 jsonRpcRequestReceived ..... 261
21.9 jsonRpcResponseSent ..... 262
21.10 networkInstanceConfigUpdate ..... 262
21.11 unixSocketJsonRpcOperDown ..... 263
21.12 unixSocketJsonRpcOperUp ..... 263
21.13 userAuthenticated ..... 264
21.14 userAuthenticationErrorWrongPassword ..... 264
21.15 userAuthenticationErrorWrongSpiffeId ..... 265

**22 lag ..... 266**
22.1 lagDown ..... 266
22.2 lagDownMinLinks ..... 266
22.3 lagMemberLinkAdded ..... 267
22.4 lagMemberLinkRemoved ..... 267
22.5 lagMemberOperDown ..... 268
22.6 lagMemberOperUp ..... 268
22.7 lagUp ..... 269

**23 ldp ..... 270**
23.1 ldpIpv4InstanceDown ..... 270
23.2 ldpIpv4InstanceUp ..... 270
23.3 ldpIPv4InterfaceDown ..... 271
23.4 ldpIPv4InterfaceUp ..... 271
23.5 ldpIPv4TargetDown ..... 272
23.6 ldpIPv4TargetUp ..... 272
23.7 ldpIpv6InstanceDown ..... 273
23.8 ldpIpv6InstanceUp ..... 273
23.9 ldpIPv6InterfaceDown ..... 274
23.10 ldpIPv6InterfaceUp ..... 275
23.11 ldpIPv6TargetDown ..... 275
23.12 ldpIPv6TargetUp ..... 276
23.13 ldpSessionDown ..... 276
23.14 ldpSessionFecLimitReached ..... 277
23.15 ldpSessionLocalIPv4Overload ..... 277
23.16 ldpSessionLocalIPv4OverloadCleared ..... 278
23.17 ldpSessionLocalIPv6Overload ..... 278


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23.18 ldpSessionLocalIPv6OverloadCleared ... 279
23.19 ldpSessionPeerIPv4Overload ... 279
23.20 ldpSessionPeerIPv4OverloadCleared ... 280
23.21 ldpSessionPeerIPv6Overload ... 280
23.22 ldpSessionPeerIPv6OverloadCleared ... 281
23.23 ldpSessionUp ... 281

**24 license ... 283**
24.1 licenseExpired ... 283
24.2 licenseExpirySoon ... 283
24.3 licenseMissing ... 284
24.4 licenseViolation ... 284

**25 linux ... 285**
25.1 bannerUpdated ... 285
25.2 cpuUsageCritical ... 285
25.3 cpuUsageHigh ... 286
25.4 cpuUsageNormal ... 286
25.5 dateAndTimeChanged ... 287
25.6 domainChanged ... 287
25.7 hostnameChanged ... 288
25.8 memoryUsageCritical ... 288
25.9 memoryUsageFull ... 289
25.10 memoryUsageHigh ... 289
25.11 memoryUsageNormal ... 290
25.12 partitionStateChange ... 290
25.13 partitionUsageCritical ... 291
25.14 partitionUsageFull ... 291
25.15 partitionUsageNormal ... 292
25.16 partitionUsageWarning ... 292
25.17 serviceConfigChanged ... 293
25.18 serviceDownInNetworkInstance ... 293
25.19 serviceUpInNetworkInstance ... 294
25.20 systemResourceHighUtilization ... 294
25.21 systemResourceHighUtilizationLowered ... 295


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**26 lldp ..... 296**
26.1 remoteLldpMedPeerAdded ..... 296
26.2 remoteLldpMedPeerRemoved ..... 296
26.3 remotePeerAdded ..... 297
26.4 remotePeerRemoved ..... 297
26.5 remotePeerUpdated ..... 298

**27 log ..... 299**
27.1 bufferRollover ..... 299
27.2 configUpdate ..... 299
27.3 fileRollover ..... 300
27.4 networkNamespaceChanged ..... 300
27.5 subsystemFacilityChanged ..... 301

**28 macsec ..... 302**
28.1 CAisTornDown ..... 302
28.2 MACsecConfigureOnInterface ..... 302
28.3 macsecDatapathReplayDetected ..... 303
28.4 MACsecDisabledFromInterface ..... 303
28.5 MACsecEnabledOnInterface ..... 304
28.6 macsecPnExhaustion ..... 304
28.7 MACsecRemovedFromInterface ..... 305
28.8 maxNumberOfPeers ..... 305
28.9 mkaReplayDetected ..... 306
28.10 MkaSessionEnded ..... 306
28.11 MkaSessionEstablished ..... 307
28.12 newCAisCreated ..... 307
28.13 newRxSakInstalled ..... 308
28.14 newTxSakInstalled ..... 308

**29 mgmt ..... 309**
29.1 checkpointGenerated ..... 309
29.2 checkpointRevertRequestReceived ..... 309
29.3 commitFailed ..... 310
29.4 commitSucceeded ..... 310
29.5 exclusiveConfigSessionBlockedByOtherSessionError ..... 311


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29.6 exclusiveConfigSessionError....311
29.7 privateConfigSessionError....312
29.8 privateSharedMismatch....312
29.9 sharedConfigSessionBlockedByOtherSessionError....313

**30 mirror....314**
30.1 mirrorDestinationDelete....314
30.2 mirrorDestinationOperDown....314
30.3 mirrorDestinationOperUP....315
30.4 mirrorDestnationAdd....315
30.5 mirrorInstanceAdminDisable....316
30.6 mirrorInstanceAdminEnable....316
30.7 mirrorInstanceOperDown....317
30.8 mirrorInstanceOperUp....317
30.9 mirrorSourceAdd....318
30.10 mirrorSourceDelete....318

**31 mld....320**
31.1 mldCModeRxQueryVersionMismatch....320
31.2 mldMaxNumberOfGroupSourcesReached....320
31.3 mldMaxNumberOfGroupsReached....321
31.4 mldMaxNumberOfSourcesReached....321
31.5 mldRxQueryVersionMismatch....322

**32 netconf....323**
32.1 netconfHello....323
32.2 netconfRpcError....323
32.3 netconfRpcReply....324
32.4 netconfRpcRequest....324
32.5 netconfRpcStart....325
32.6 netconfRpcSuccess....325
32.7 netconfServerSocketCreated....326
32.8 netconfServerSocketError....326
32.9 netconfSessionClosed....327
32.10 netconfSessionDisconnected....327
32.11 netconfSessionKilled....328


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32.12 netconfSessionOpened ... 328

**33 netinst ... 329**

33.1 networkInstanceInterfaceDown ... 329
33.2 networkInstanceInterfaceUp ... 329
33.3 networkInstanceStateDown ... 330
33.4 networkInstanceStateUp ... 330

**34 oam_pm ... 332**

34.1 ThresholdDelayEventClear ... 332
34.2 ThresholdDelayEventRaise ... 332
34.3 ThresholdLossEventClear ... 333
34.4 ThresholdLossEventRaise ... 333

**35 ospf ... 335**

35.1 ospfAdjacencyBfdSessionSetupFailed ... 335
35.2 ospfAdjacencyChange ... 335
35.3 ospfAdjacencyRestartStatusChange ... 336
35.4 ospfAsMaxAgeLSA ... 336
35.5 ospfExportLimitReached ... 337
35.6 ospfExportLimitWarning ... 337
35.7 ospfFailure ... 338
35.8 ospfIfLdpSyncStateChange ... 338
35.9 ospfIfRxBadPacket ... 339
35.10 ospfIfStateChange ... 339
35.11 ospfLsdbApproachingOverflow ... 340
35.12 ospfLsdbOverflow ... 340
35.13 ospfNbrMtuMismatch ... 341
35.14 ospfOverloadEntry ... 342
35.15 ospfOverloadExit ... 342
35.16 ospfOverloadWarning ... 343
35.17 ospfSpfRunRestarted ... 343
35.18 ospfSpfRunsStopped ... 344
35.19 ospIfAuthDataFailure ... 344

**36 pim ... 346**

36.1 pimGroupInSSMRange ... 346


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36.2 pimIfNeighborLoss....346
36.3 pimIfNeighborUp....347
36.4 pimInvalidJoinPrune....347
36.5 pimInvalidRegister....348

**37 mld....349**
37.1 mldCModeRxQueryVersionMismatch....349
37.2 mldMaxNumberOfGroupSourcesReached....349
37.3 mldMaxNumberOfGroupsReached....350
37.4 mldMaxNumberOfSourcesReached....350
37.5 mldRxQueryVersionMismatch....351

**38 platform....352**
38.1 airflowCorrected....352
38.2 airflowMismatch....352
38.3 componentBooting....353
38.4 componentDown....353
38.5 componentFailed....354
38.6 componentInserted....354
38.7 componentInsertedInInvalidSlot....355
38.8 componentLocatorDisabled....355
38.9 componentLocatorEnabled....356
38.10 componentPowerDown....356
38.11 componentPowerUp....357
38.12 componentRemoved....357
38.13 componentRestarted....358
38.14 componentTemperatureExceeded....358
38.15 componentTemperatureFailure....359
38.16 componentTemperatureNormal....359
38.17 componentUp....360
38.18 controlModuleActivityChange....360
38.19 controlModuleConfigSynchronized....361
38.20 controlModuleImageSynchronized....361
38.21 controlModuleInSync....362
38.22 controlModuleOverlaySynchronized....362
38.23 controlModuleSyncLost....363


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38.24 controlModuleSyncStart....364
38.25 fantrayEmpty....364
38.26 fips140ConfiguredOperDown....365
38.27 fips140ConfiguredOperUp....365
38.28 fips140ConfiguredWaitingReboot....366
38.29 fips140NotActive....366
38.30 fips140Removed....367
38.31 linecardCapacityDegraded....367
38.32 linecardCapacityNormal....368
38.33 platformLowPower....368
38.34 platformLowReservePower....369
38.35 platformNoPowerRedundancy....369
38.36 platformNormalPower....370
38.37 platformPowerRedundancyRecovered....370
38.38 psuInputDown....371
38.39 psuInputUp....371
38.40 psuOutputDown....372
38.41 psuOutputUp....372
38.42 psuTemperatureFault....373
38.43 psuTemperatureNormal....373
38.44 systemInServiceSoftwareUpgrade....374
38.45 systemReboot....374
38.46 systemWarmReboot....375
38.47 systemWarmRebootAborted....375

**39 pim....376**
39.1 pimGroupInSSMRange....376
39.2 pimIfNeighborLoss....376
39.3 pimIfNeighborUp....377
39.4 pimInvalidJoinPrune....377
39.5 pimInvalidRegister....378

**40 qos....379**
40.1 platformCoreQoSProfileHighUtilization....379
40.2 platformCoreQoSProfileHighUtilizationLowered....379
40.3 platformQoSProfileHighUtilization....380


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40.4 platformQoSProfileHighUtilizationLowered....380

**41 ra_guard....382**
41.1 ra_guardAdd....382
41.2 ra_guardRemove....382

**42 rpki....384**
42.1 rpkiSessionDown....384
42.2 rpkiSessionUp....384
42.3 rpkiStaleEntriesPurged....385

**43 sflow....386**
43.1 sFlowAgentChange....386
43.2 sFlowCollectorUnreachable....386

**44 staticroute....388**
44.1 staticNextHopCpeCheckDown....388
44.2 staticNextHopCpeCheckUp....388

**45 stp....390**
45.1 higherPriorityBridge....390
45.2 InterfaceActiveProtocolChange....390
45.3 NewCistRegionalRootBridge....391
45.4 NewMstiRegionalRootBridge....391
45.5 newRootBridge....392
45.6 newRootInterface....392
45.7 receivedTCN....393
45.8 StpBpduGuardError....393
45.9 StpRootGuardViolation....394
45.10 topologyChangeInterfaceMajorState....394
45.11 topologyChangeInterfaceState....395
45.12 unacknowledgedTCN....395

**46 sync....397**
46.1 syncFreqClockQLChange....397
46.2 syncFreqClockRefChange....397
46.3 syncFreqClockStateChange....398


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46.4 syncFreqInstanceAlarmChange ... 398
46.5 syncFreqInstanceQLChange ... 399
46.6 syncPTPNoPortTimestamping ... 399
46.7 syncPTPParentChange ... 400
46.8 syncPTPParentChangeGNSS ... 400
46.9 syncPTPParentChangeIP ... 401
46.10 syncPTPParentChangeLocalClock ... 401
46.11 syncPTPPortPTSFUnusable ... 402
46.12 syncPTPTimeRecoveryState ... 402

**47 tls ... 404**
47.1 tlsProfileExpired ... 404
47.2 tlsProfileExpiresSoon ... 404


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# 1 About this guide

This document provides guidance for operators to interpret log events for the Nokia Service Router Linux (SR Linux). This document is intended for users who need to access and understand log events for SR Linux.

**Note:**
This manual covers the current release and may also contain some content that will be released in later maintenance loads. See the *SR Linux Software Release Notes* for information about features supported in each load.

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

## 1.1 Precautionary and information messages

The following are information symbols 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.

## 1.2 Conventions

The Nokia SR Linux documentation uses the following command conventions:

- **Bold** type indicates a command that the user must enter.
- Input and output examples are displayed in `Courier` text.
- A vertical bar (|) indicates a mutually exclusive argument.
- Square brackets ([ ]) indicate optional elements.
- Braces ({ }) indicate a required choice. When braces are contained within square brackets, they indicate a required choice within an optional element.


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- *Italic* type indicates a variable.

The following table outlines platform grouping conventions used in the SR Linux documentation suite.

**Note:** Some platforms in the 7250 IXR support mixed systems. For more information about mixed system support, see "Chassis types" in the *Configuration Basics Guide*.

*Table 1: Platform grouping legend*

| Platform group | Description |
|---|---|
| 7215 IXS | 7215 IXS-A1[1] |
| 7220 IXR | All 7220 IXR platforms |
| 7220 IXR-D*x* | 7220 IXR-D1, 7220 IXR-D2, 7220 IXR-D2L, 7220 IXR-D3, 7220 IXR-D3L, 7220 IXR-D4, 7220 IXR-D5 |
| 7220 IXR-H*x* | 7220 IXR-H2, 7220 IXR-H3, 7220 IXR-H4, 7220 IXR-H4-32D, 7220 IXR-H5-32D, 7220 IXR-H5-64D, 7220 IXR-H5-64O, 7220 IXR-H5-64O-512, 7220 IXR-H6-64 |
| 7250 IXR[2] | 7250 IXR platforms |
| 7250 IXR Gen 2 | 7250 IXR-6, 7250 IXR-10 |
| 7250 IXR Gen 2c+ | 7250 IXR-6e with IMM2, 7250 IXR-10e with IMM2, 7250 IXR-X1b, 7250 IXR-X3b |
| 7250 IXR Gen 3 | 7250 IXR-6e with IMM3, 7250 IXR-10e with IMM3, 7250 IXR-18e, 7250 IXR-X4, 7250 IXR-X4 OSFP |
| 7250 IXR-6e/10e (mixed system) | 7250 IXR-6e (mixed system)[3], 7250 IXR-10e (mixed system)[3] |

1 References to 7215 IXS may be appended with (AA variant) or (AB variant) to indicate the chassis variant. Both variants are 7215 IXS platforms; they are identified by part numbers ending with AA or AB.

2 References to the 7250 IXR platform group may be appended with (including mixed systems) or (excluding mixed systems) to indicate support for a mix of 7250 IXR Gen 2c+ (IMM2) and 7250 IXR Gen 3 (IMM3) line cards in the same chassis.

3 References to this platform as part of 7250 IXR (mixed system) indicate mixed system support of 7250 IXR Gen 2c+ (IMM2) and 7250 IXR Gen 3 (IMM3). That is, the 7250 IXR-6e and 7250 IXR-10e can hold and support both IMM2 and IMM3 at the same time.


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# 2 Log events overview

This section provides general information about the log events described in this guide for the Service Router Linux (SR Linux).

For more information about logging, see the SR Linux Configuration Basics Guide.

## 2.1 Log event format

Log events that are forwarded to a destination are formatted. All application-generated events have the following format:

- time stamp in UTC or local time
- generating application
- hostname of the local system
- subsystem identifying the affected object
- short message describing the event

A log event with a memory, console, or file destination has the following format:

```
<TIMESTAMP> <HOSTNAME> <APPLICATION>: <SUBSYSTEM>|<PID>|<SEVERITY>: <MESSAGE>
```

The log event format is described in Table 2: Log event format descriptions.

*Table 2: Log event format descriptions*

| Label | Description |
|---|---|
| TIMESTAMP | UTC or local date stamp for the log event entry:<br>*YYYY* — Year<br>*MM* — Month<br>*DD* — Day<br>*HH* — Hours (24-hour format)<br>*MM* — Minutes<br>*SS.SS* — Seconds.hundredths of a second |
| <HOSTNAME> | System hostname |
| <APPLICATION> | Name of the application generating the log event message |
| <SUBSYSTEM> | Name of the subsystem generating the log event message |
| <PID> | Process ID |


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| Label | Description |
|---|---|
| <SEVERITY> | A single character indicating how critical the message is (I stands for Informational, W stands for Warning, and so on) |
| <MESSAGE> | Text description of the log event |

## 2.2 Example log event

The following contains an example log event entry from this guide for the bgpNeighborBackwardTransition log event.

*Table 3: bgpNeighborBackwardTransition properties*

| Property name | Value |
|---|---|
| Application name | bgp |
| Event name | bgpNeighborBackwardTransition |
| Default severity | warning |
| Message format string | In network-instance $network-instance$, the BGP session with $peer-address$ moved from higher state $last-state$ to lower state $session-state$ due to event $last-event$ |
| Cause | No routes can be exchanged with this peer |
| Effect | N/A |

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

*Table 4: Log event entry field descriptions*

| Label | Description |
|---|---|
| Application name | Name of the application generating the log message |
| Event name | Name of the log event |
| Default severity | Severity level of the log event (see Table 2: Log event format descriptions for the severity level) |
| 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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| Label | Description |
|---|---|
| Raising event | When the event is a facility alarm, the event that raises the alarm |
| Clearing event | When the event is a facility alarm, the event that clears the alarm |


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# 3 What's new

*Table 5: Event Changes*

| Event Name | Change |
|---|---|
| CAisTornDown | New |
| airflowMismatch | Modified |
| bannerUpdated | New |
| bmpPeerMonitoringStarted | New |
| bmpPeerMonitoringStopped | New |
| bmpSessionClosed | New |
| bmpSessionEstablished | New |
| componentFailed | Modified |
| componentTemperatureFailure | Modified |
| controlModuleSyncLost | Modified |
| evpnNetworkInstanceCwMismatch | New |
| evpnNetworkInstanceCwMismatchCleared | New |
| evpnNetworkInstanceFlowLabelMismatch | New |
| evpnNetworkInstanceFlowLabelMismatchCleared | New |
| evpnNetworkInstanceMtuMismatch | New |
| evpnNetworkInstanceMtuMismatchCleared | New |
| evpnNetworkInstanceNoL2Attributes | New |
| evpnNetworkInstanceNoL2AttributesCleared | New |
| fantrayEmpty | Modified |
| macsecDatapathReplayDetected | New |
| macsecPnExhaustion | New |
| malformedUpdatesBufferFull | New |
| malformedUpdatesEntriesEvicted | New |


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| Event Name | Change |
|---|---|
| mkaReplayDetected | New |
| newCAisCreated | New |
| newRxSakInstalled | New |
| newTxSakInstalled | New |
| platformLowPower | Modified |
| platformLowReservePower | Modified |
| psuInputDown | Modified |
| psuOutputDown | Modified |
| rpkiSessionDown | New |
| rpkiSessionUp | New |
| rpkiStaleEntriesPurged | New |
| secureBootDisabled | Modified |
| syncFreqClockRefChange | Modified |
| syncFreqInstanceAlarmChange | Modified |
| syncFreqInstanceQLChange | Modified |
| systemDateAndTimeChangedByUser | New |
| systemEvpnMplsMulticastPeersLimitHighUtilization | Dropped |
| systemEvpnMplsMulticastPeersLimitHighUtilizationLowered | Dropped |
| systemEvpnMplsMulticastPeersLimitLowered | Dropped |
| systemEvpnMplsMulticastPeersLimitReached | Dropped |
| tlsCryptoElementChanged | New |
| userAuthenticationTimedOut | New |


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# 4 aaa

## 4.1 serverDown

*Table 6: serverDown properties*

| Property name | Value |
|---|---|
| Application name | aaa |
| Event name | serverDown |
| Default severity | error |
| Message format string | Server *server_address* in group *server_group* is down |
| Cause | The specified server is down, either via being unreachable, or a timeout |
| Effect | The specified server can no longer be used for authentication, authorization, or accounting transactions. |
| Raising event | N/A |
| Clearing event | N/A |

## 4.2 serverGroupDown

*Table 7: serverGroupDown properties*

| Property name | Value |
|---|---|
| Application name | aaa |
| Event name | serverGroupDown |
| Default severity | error |
| Message format string | All servers in server group *server_group* are down |
| Cause | All servers within the specified server group are no longer available |
| Effect | The specified server group can no longer be used for authentication, authorization, or accounting transactions. |
| Raising event | N/A |


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| Property name | Value |
|---|---|
| Clearing event | N/A |

## 4.3 serverGroupUp

*Table 8: serverGroupUp properties*

| Property name | Value |
|---|---|
| Application name | aaa |
| Event name | serverGroupUp |
| Default severity | error |
| Message format string | Servers in server group *server_group* are up |
| Cause | Servers within the specified server group are available |
| Effect | The specified server group can be used for authentication, authorization, or accounting transactions. |
| Raising event | N/A |
| Clearing event | N/A |

## 4.4 serverRouteUnavailable

*Table 9: serverRouteUnavailable properties*

| Property name | Value |
|---|---|
| Application name | aaa |
| Event name | serverRouteUnavailable |
| Default severity | error |
| Message format string | No route available to reach remote server *server_address* in server group *server_group* via network instance *network_instance* |
| Cause | No routes are available in the specified network instance to reach the remote server |
| Effect | The specified server can no longer be used for authentication, authorization, or accounting transactions. |
| Raising event | N/A |


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| Property name | Value |
|---|---|
| Clearing event | N/A |

## 4.5 serverTimeout

*Table 10: serverTimeout properties*

| Property name | Value |
|---|---|
| Application name | aaa |
| Event name | serverTimeout |
| Default severity | error |
| Message format string | Server *server_address* in group *server_group* has timed out |
| Cause | The connection between the AAA manager and the remote server has timed out. The server will be tried again in 30 seconds, or immediately if a valid response is received |
| Effect | The specified server can no longer be used for authentication, authorization, or accounting transactions. |
| Raising event | N/A |
| Clearing event | N/A |

## 4.6 serverUp

*Table 11: serverUp properties*

| Property name | Value |
|---|---|
| Application name | aaa |
| Event name | serverUp |
| Default severity | error |
| Message format string | Server *server_address* in group *server_group* is up |
| Cause | The specified server is up |
| Effect | The specified server can be used for authentication, authorization, or accounting transactions. |
| Raising event | N/A |


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| Property name | Value |
|---|---|
| Clearing event | N/A |

## 4.7 sessionClosed

*Table 12: sessionClosed properties*

| Property name | Value |
|---|---|
| Application name | aaa |
| Event name | sessionClosed |
| Default severity | notice |
| Message format string | Closed session *session_id* for user *user_name* from host *remote_host* in network-instance *network_instance* |
| Cause | The specified user has closed a session on the system |
| Effect | None. |
| Raising event | N/A |
| Clearing event | N/A |

## 4.8 sessionDisconnected

*Table 13: sessionDisconnected properties*

| Property name | Value |
|---|---|
| Application name | aaa |
| Event name | sessionDisconnected |
| Default severity | notice |
| Message format string | Session *session_id* for user *user_name* from remote host *remote_host* in network-instance *network_instance* disconnected by administrative action |
| Cause | A specific session for a user has been disconnected from the system by an administrator |
| Effect | The specified user is disconnected. |
| Raising event | N/A |


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| Property name | Value |
|---|---|
| Clearing event | N/A |

## 4.9 sessionIdleDisconnected

*Table 14: sessionIdleDisconnected properties*

| Property name | Value |
|---|---|
| Application name | aaa |
| Event name | sessionIdleDisconnected |
| Default severity | notice |
| Message format string | Session *session_id* for user *user_name* from remote host *remote_host* in network-instance *network_instance* disconnected by timeout |
| Cause | The specified user session disconnected from the system due to an idle timeout |
| Effect | The specified user is disconnected. |
| Raising event | N/A |
| Clearing event | N/A |

## 4.10 sessionOpened

*Table 15: sessionOpened properties*

| Property name | Value |
|---|---|
| Application name | aaa |
| Event name | sessionOpened |
| Default severity | notice |
| Message format string | Opened session *session_id* for user *user_name* from host *remote_host* in network-instance *network_instance* |
| Cause | The specified user has opened a session on the system |
| Effect | None. |
| Raising event | N/A |


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| Property name | Value |
|---|---|
| Clearing event | N/A |

## 4.11 systemDateAndTimeChangedByUser

*Table 16: systemDateAndTimeChangedByUser properties*

| Property name | Value |
|---|---|
| Application name | aaa |
| Event name | systemDateAndTimeChangedByUser |
| Default severity | informational |
| Message format string | User *user_name* from *origin* changed system date and time from *previous_date_and_time* to *new_date_and_time* |
| Cause | A user changed the system clock using the date or timedatectl command. |
| Effect | An audit record of the system date and time change is generated for compliance. |
| Raising event | N/A |
| Clearing event | N/A |

## 4.12 tacacsRoleInvalid

*Table 17: tacacsRoleInvalid properties*

| Property name | Value |
|---|---|
| Application name | aaa |
| Event name | tacacsRoleInvalid |
| Default severity | error |
| Message format string | Invalid *vsa_name vsa_value* received from the TACACS+ server for user *user_name* |
| Cause | The TACACS+ server provided an invalid role parameter. |
| Effect | The TACACS+ user is disconnected. |
| Raising event | N/A |


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| Property name | Value |
|---|---|
| Clearing event | N/A |

## 4.13 tlsCryptoElementChanged

*Table 18: tlsCryptoElementChanged properties*

| Property name | Value |
|---|---|
| Application name | aaa |
| Event name | tlsCryptoElementChanged |
| Default severity | informational |
| Message format string | User *username* performed *operation* on TLS/cryptographic element *element_path* |
| Cause | A TLS or cryptographic configuration element was created, updated, or deleted. |
| Effect | Audit record generated for compliance (NIAP / FID9499.4). |
| Raising event | N/A |
| Clearing event | N/A |

## 4.14 userAuthenticationFailed

*Table 19: userAuthenticationFailed properties*

| Property name | Value |
|---|---|
| Application name | aaa |
| Event name | userAuthenticationFailed |
| Default severity | warning |
| Message format string | User *user_name* authentication failed from host *remote_host* in network-instance *network_instance* |
| Cause | The specified user has failed authentication |
| Effect | None. |
| Raising event | N/A |


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| Property name | Value |
|---|---|
| Clearing event | N/A |

## 4.15 userAuthenticationSucceeded

*Table 20: userAuthenticationSucceeded properties*

| Property name | Value |
|---|---|
| Application name | aaa |
| Event name | userAuthenticationSucceeded |
| Default severity | notice |
| Message format string | User *user_name* on session *session_id* successfully authenticated from host *remote_host* in network-instance *network_instance* |
| Cause | The specified user has successfully authenticated |
| Effect | None. |
| Raising event | N/A |
| Clearing event | N/A |

## 4.16 userAuthenticationTimedOut

*Table 21: userAuthenticationTimedOut properties*

| Property name | Value |
|---|---|
| Application name | aaa |
| Event name | userAuthenticationTimedOut |
| Default severity | warning |
| Message format string | User *user_name* authentication timed out from host *remote_host* in network-instance *network_instance* |
| Cause | The specified user authentication timed out |
| Effect | None. |
| Raising event | N/A |
| Clearing event | N/A |


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## 4.17 userLockoutReset

*Table 22: userLockoutReset properties*

| Property name | Value |
|---|---|
| Application name | aaa |
| Event name | userLockoutReset |
| Default severity | warning |
| Message format string | User *user_name* is unlocked |
| Cause | Tools command is used to unlock this user or when the lockout timer expires |
| Effect | None. |
| Raising event | N/A |
| Clearing event | N/A |

## 4.18 userLockoutSet

*Table 23: userLockoutSet properties*

| Property name | Value |
|---|---|
| Application name | aaa |
| Event name | userLockoutSet |
| Default severity | warning |
| Message format string | User *user_name* is locked out |
| Cause | The specified user has been locked out after successive authentication failed attempts within a specific time duration |
| Effect | None. |
| Raising event | N/A |
| Clearing event | N/A |


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## 4.19 userPasswordChanged

*Table 24: userPasswordChanged properties*

| Property name | Value |
|---|---|
| Application name | aaa |
| Event name | userPasswordChanged |
| Default severity | notice |
| Message format string | Password for user *user_name* has changed |
| Cause | The user has changed his password or it was changed by a user with administrative rights |
| Effect | None. |
| Raising event | N/A |
| Clearing event | N/A |

## 4.20 userPasswordExpired

*Table 25: userPasswordExpired properties*

| Property name | Value |
|---|---|
| Application name | aaa |
| Event name | userPasswordExpired |
| Default severity | warning |
| Message format string | User *user_name* password has expired |
| Cause | The specified user has not changed his password before aging time |
| Effect | None. |
| Raising event | N/A |
| Clearing event | N/A |


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# 5 app

## 5.1 applicationFailed

*Table 26: applicationFailed properties*

| Property name | Value |
|---|---|
| Application name | app |
| Event name | applicationFailed |
| Default severity | alert |
| Message format string | Application *application_name* has failed, *failure_count* of *failure_threshold* failures in the last *failure_window* seconds |
| Cause | The specified application has failed. |
| Effect | The specified application has failed, and all functionality it provides is inoperable. If this failure reaches the applications failure threshold then the applications failure action will be triggered, otherwise the application will be restarted. |
| Raising event | N/A |
| Clearing event | N/A |

## 5.2 applicationFailureActionTriggered

*Table 27: applicationFailureActionTriggered properties*

| Property name | Value |
|---|---|
| Application name | app |
| Event name | applicationFailureActionTriggered |
| Default severity | alert |
| Message format string | Application *application_name* has failed *failure_threshold* times in the last *failure_window* seconds, triggering action *failure_action* |
| Cause | The specified application has failed enough times to trigger the applications failure action. |


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| Property name | Value |
|---|---|
| Effect | The applications failure action is triggered, as defined in the application-specific configuration. |
| Raising event | N/A |
| Clearing event | N/A |

## 5.3 applicationRestarted

*Table 28: applicationRestarted properties*

| Property name | Value |
|---|---|
| Application name | app |
| Event name | applicationRestarted |
| Default severity | warning |
| Message format string | Restarted application *application_name*, restart type *restart_type* |
| Cause | Application manager has restarted the specified application. |
| Effect | The specified application has been restarted. |
| Raising event | N/A |
| Clearing event | N/A |

## 5.4 applicationRestarting

*Table 29: applicationRestarting properties*

| Property name | Value |
|---|---|
| Application name | app |
| Event name | applicationRestarting |
| Default severity | warning |
| Message format string | Restarting application *application_name*, restart type *restart_type* |
| Cause | Application manager is restarting the specified application. |
| Effect | The specified application is restarting. |


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| Property name | Value |
|---|---|
| Raising event | N/A |
| Clearing event | N/A |

## 5.5 applicationStarted

*Table 30: applicationStarted properties*

| Property name | Value |
|---|---|
| Application name | app |
| Event name | applicationStarted |
| Default severity | notice |
| Message format string | Successfully started application *application_name* |
| Cause | Application manager has started the specified application. |
| Effect | The specified application is started. |
| Raising event | N/A |
| Clearing event | N/A |

## 5.6 applicationStarting

*Table 31: applicationStarting properties*

| Property name | Value |
|---|---|
| Application name | app |
| Event name | applicationStarting |
| Default severity | notice |
| Message format string | Starting application *application_name* |
| Cause | Application manager is starting the specified application. |
| Effect | The specified application is starting. |
| Raising event | N/A |
| Clearing event | N/A |


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## 5.7 applicationStopped

*Table 32: applicationStopped properties*

| Property name | Value |
|---|---|
| Application name | app |
| Event name | applicationStopped |
| Default severity | notice |
| Message format string | Stopped application *application_name* |
| Cause | Application manager has stopped the specified application. |
| Effect | The specified application is stopped. |
| Raising event | N/A |
| Clearing event | N/A |

## 5.8 applicationStopping

*Table 33: applicationStopping properties*

| Property name | Value |
|---|---|
| Application name | app |
| Event name | applicationStopping |
| Default severity | notice |
| Message format string | Stopping application *application_name* |
| Cause | Application manager is stopping the specified application. |
| Effect | The specified application is stopping. |
| Raising event | N/A |
| Clearing event | N/A |


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# 6 acl

## 6.1 aclCpmIpv4MatchedPacket

*Table 34: aclCpmIpv4MatchedPacket properties*

| Property name | Value |
|---|---|
| Application name | acl |
| Event name | aclCpmIpv4MatchedPacket |
| Default severity | notice |
| Message format string | An IPv4 packet, len *packet-length*, protocol *ip-protocol*, received by linecard *incoming-linecard* was *action* by entry *sequence-id* of the IPv4 cpm-filter. *source-ip*( *source-port*) -> *dest-ip*(*dest-port*) |
| Cause | This event is generated when an IPv4 packet matches an entry of the CPM IPv4 filter and that entry specifies a log action |
| Effect | None |
| Raising event | N/A |
| Clearing event | N/A |

## 6.2 aclCpmIpv6MatchedPacket

*Table 35: aclCpmIpv6MatchedPacket properties*

| Property name | Value |
|---|---|
| Application name | acl |
| Event name | aclCpmIpv6MatchedPacket |
| Default severity | notice |
| Message format string | An IPv6 packet, len *packet-length*, protocol *last-next-header*, received by linecard *incoming-linecard* was *action* by entry *sequence-id* of the IPv6 cpm-filter. *source-ip*( *source-port*) -> *dest-ip*(*dest-port*) |
| Cause | This event is generated when an IPv6 packet matches an entry of the CPM IPv6 filter and that entry specifies a log action |


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| Property name | Value |
|---|---|
| Effect | None |
| Raising event | N/A |
| Clearing event | N/A |

## 6.3 aclInterfaceInputIpv4MatchedPacket

*Table 36: aclInterfaceInputIpv4MatchedPacket properties*

| Property name | Value |
|---|---|
| Application name | acl |
| Event name | aclInterfaceInputIpv4MatchedPacket |
| Default severity | notice |
| Message format string | An IPv4 packet, len *packet-length*, protocol *ip-protocol*, received on *incoming-interface* was *action* by entry *sequence-id* of filter *filter-name*. *source-ip*(*source-port*) -> *dest-ip*(*dest-port*) |
| Cause | This event is generated when an IPv4 packet matches an entry of an IPv4 filter applied to ingress traffic on a subinterface and that entry specifies a log action |
| Effect | None |
| Raising event | N/A |
| Clearing event | N/A |

## 6.4 aclInterfaceInputIpv6MatchedPacket

*Table 37: aclInterfaceInputIpv6MatchedPacket properties*

| Property name | Value |
|---|---|
| Application name | acl |
| Event name | aclInterfaceInputIpv6MatchedPacket |
| Default severity | notice |
| Message format string | An IPv6 packet, len *packet-length*, protocol *last-next-header*, received on *incoming-interface* was *action* by entry *sequence-id* of filter *filter-name*. *source-ip*(*source-port*) -> *dest-ip*(*dest-port*) |


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| Property name | Value |
|---|---|
| Cause | This event is generated when an IPv6 packet matches an entry of an IPv6 filter applied to ingress traffic on a subinterface and that entry specifies a log action |
| Effect | None |
| Raising event | N/A |
| Clearing event | N/A |

## 6.5 aclInterfaceOutputIpv4MatchedPacket

*Table 38: aclInterfaceOutputIpv4MatchedPacket properties*

| Property name | Value |
|---|---|
| Application name | acl |
| Event name | aclInterfaceOutputIpv4MatchedPacket |
| Default severity | notice |
| Message format string | An IPv4 packet, len *packet-length*, protocol *ip-protocol*, intended for transmit on *outgoing-interface* was *action* by entry *sequence-id* of filter *filter-name*. *source-ip*(*source-port*) -> *dest-ip*(*dest-port*) |
| Cause | This event is generated when an IPv4 packet matches an entry of an IPv4 filter applied to egress traffic on a subinterface and that entry specifies a log action |
| Effect | None |
| Raising event | N/A |
| Clearing event | N/A |

## 6.6 aclInterfaceOutputIpv6MatchedPacket

*Table 39: aclInterfaceOutputIpv6MatchedPacket properties*

| Property name | Value |
|---|---|
| Application name | acl |
| Event name | aclInterfaceOutputIpv6MatchedPacket |
| Default severity | notice |


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| Property name | Value |
|---|---|
| Message format string | An IPv6 packet, len *packet-length*, protocol *last-next-header*, intended for transmit on *outgoing-interface* was *action* by entry *sequence-id* of filter *filter-name*. *source-ip*(*source-port*) -> *dest-ip*(*dest-port*) |
| Cause | This event is generated when an IPv6 packet matches an entry of an IPv6 filter applied to egress traffic on a subinterface and that entry specifies a log action |
| Effect | None |
| Raising event | N/A |
| Clearing event | N/A |

## 6.7 aclTcamProgComplete

*Table 40: aclTcamProgComplete properties*

| Property name | Value |
|---|---|
| Application name | acl |
| Event name | aclTcamProgComplete |
| Default severity | notice |
| Message format string | All TCAM banks on all linecards have been reprogrammed with the latest ACL configuration changes. |
| Cause | This event is generated when all TCAM banks on all linecards have been reprogrammed with the latest ACL configuration changes. |
| Effect | None |
| Raising event | N/A |
| Clearing event | N/A |

## 6.8 platformAclHighUtilization

*Table 41: platformAclHighUtilization properties*

| Property name | Value |
|---|---|
| Application name | acl |
| Event name | platformAclHighUtilization |


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| Property name | Value |
|---|---|
| Default severity | warning |
| Message format string | The ACL resource called *resource-name* has reached *threshold*% or more utilization on linecard *linecard*, forwarding complex *forwarding-complex*. Only *free-entries* entries are remaining. |
| Cause | This event is generated when the utilization of an ACL resource has increased to a level that may warrant concern if futher resources are consumed |
| Effect | None |
| Raising event | N/A |
| Clearing event | N/A |

## 6.9 platformAclHighUtilizationLowered

*Table 42: platformAclHighUtilizationLowered properties*

| Property name | Value |
|---|---|
| Application name | acl |
| Event name | platformAclHighUtilizationLowered |
| Default severity | notice |
| Message format string | The ACL resource called *resource-name* has decreased back to *threshold*% or less utilization on linecard *linecard*, forwarding complex *forwarding-complex*. |
| Cause | This event is generated when the utilization of an ACL resource has decreased to a level that may no longer warrant concern |
| Effect | None |
| Raising event | N/A |
| Clearing event | N/A |


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## 6.10 platformTcamHighUtilization

*Table 43: platformTcamHighUtilization properties*

| Property name | Value |
|---|---|
| Application name | acl |
| Event name | platformTcamHighUtilization |
| Default severity | warning |
| Message format string | The TCAM resource called *resource-name* has reached *threshold*% or more utilization on linecard *linecard*, forwarding complex *forwarding-complex*. Only *free-entries* entries are remaining. |
| Cause | This event is generated when the utilization of a TCAM resource has increased to a level that may warrant concern if futher resources are consumed |
| Effect | None |
| Raising event | N/A |
| Clearing event | N/A |

## 6.11 platformTcamHighUtilizationLowered

*Table 44: platformTcamHighUtilizationLowered properties*

| Property name | Value |
|---|---|
| Application name | acl |
| Event name | platformTcamHighUtilizationLowered |
| Default severity | notice |
| Message format string | The TCAM resource called *resource-name* has decreased back to *threshold*% or less utilization on linecard *linecard*, forwarding complex *forwarding-complex*. |
| Cause | This event is generated when the utilization of a TCAM resource has decreased to a level that may no longer warrant concern |
| Effect | None |
| Raising event | N/A |
| Clearing event | N/A |


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# 7 arpnd

## 7.1 ipArpEntryUpdated

*Table 45: ipArpEntryUpdated properties*

| Property name | Value |
|---|---|
| Application name | arpnd |
| Event name | ipArpEntryUpdated |
| Default severity | informational |
| Message format string | The ARP entry for *ipv4-address* on *interface*. *subinterface-index* has been updated from mac *old-mac* type *old-type* to mac *new-mac* and type *new-type*. |
| Cause | This event is generated whenever an existing static or dynamic ARP entry for an IPv4 address is overwritten. This could be a triggered by a change of entry type (static vs dynamic) or a change of MAC address or a change of the subinterface binding. |
| Effect | None |
| Raising event | N/A |
| Clearing event | N/A |

## 7.2 ipSubinterfaceDuplicateIpv4Address

*Table 46: ipSubinterfaceDuplicateIpv4Address properties*

| Property name | Value |
|---|---|
| Application name | arpnd |
| Event name | ipSubinterfaceDuplicateIpv4Address |
| Default severity | notice |
| Message format string | The IPv4 address *ipv4-address* assigned to *interface*.*subinterface-index* is being used by another host or router on the same subnet. |
| Cause | This event is generated when ARP detects that another system is using the same IPv4 address |


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| Property name | Value |
|---|---|
| Effect | Unreliable communications |
| Raising event | N/A |
| Clearing event | N/A |

## 7.3 ipSubinterfaceDuplicateIpv6Address

*Table 47: ipSubinterfaceDuplicateIpv6Address properties*

| Property name | Value |
|---|---|
| Application name | arpnd |
| Event name | ipSubinterfaceDuplicateIpv6Address |
| Default severity | notice |
| Message format string | The IPv6 address *ipv6-address* assigned to *interface*.*subinterface-index* is being used by another host or router on the same subnet. |
| Cause | This event is generated when IPv6 DAD detects that another system is using the same IPv6 address |
| Effect | Unreliable communications |
| Raising event | N/A |
| Clearing event | N/A |

## 7.4 ipSubinterfaceDuplicateMacAddress

*Table 48: ipSubinterfaceDuplicateMacAddress properties*

| Property name | Value |
|---|---|
| Application name | arpnd |
| Event name | ipSubinterfaceDuplicateMacAddress |
| Default severity | notice |
| Message format string | The MAC address *mac-address* used by *interface*.*subinterface-index* is being used by another host or router on the same subnet. |
| Cause | This event is generated when ARP or IPv6 Neighbor Discovery detects that another system is using the same MAC address |


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| Property name | Value |
|---|---|
| Effect | Unreliable communications |
| Raising event | N/A |
| Clearing event | N/A |

## 7.5 ipSubinterfaceInvalidArp

*Table 49: ipSubinterfaceInvalidArp properties*

| Property name | Value |
|---|---|
| Application name | arpnd |
| Event name | ipSubinterfaceInvalidArp |
| Default severity | notice |
| Message format string | An ARP request for *ipv4-address* was received on *interface*.*subinterface-index* and there is no matching IPv4 subnet. |
| Cause | This event is generated when ARP receives an ARP request for an invalid IPv4 address |
| Effect | None |
| Raising event | N/A |
| Clearing event | N/A |

## 7.6 ipSubinterfaceInvalidIpv6NeighborSolicitation

*Table 50: ipSubinterfaceInvalidIpv6NeighborSolicitation properties*

| Property name | Value |
|---|---|
| Application name | arpnd |
| Event name | ipSubinterfaceInvalidIpv6NeighborSolicitation |
| Default severity | notice |
| Message format string | An IPv6 neighbor solicitation for *ipv6-address* was received on *interface*.*subinterface-index* and there is no matching IPv6 subnet. |
| Cause | This event is generated when IPv6 neighbor discovery receives a NS message for an invalid IPv6 address |


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| Property name | Value |
|---|---|
| Effect | None |
| Raising event | N/A |
| Clearing event | N/A |

## 7.7 ipv6NeighborEntryUpdated

*Table 51: ipv6NeighborEntryUpdated properties*

| Property name | Value |
|---|---|
| Application name | arpnd |
| Event name | ipv6NeighborEntryUpdated |
| Default severity | informational |
| Message format string | The IPv6 neighbor discovery entry for *ipv6-address* on *interface*.*subinterface-index* has been updated from mac *old-mac* type *old-type* to mac *new-mac* and type *new-type*. |
| Cause | This event is generated whenever an existing static or dynamic neighbor entry for an IPv6 address is overwritten. This could be a triggered by a change of entry type (static vs dynamic) or a change of MAC address or a change of the subinterface binding. |
| Effect | None |
| Raising event | N/A |
| Clearing event | N/A |

## 7.8 ipv6NeighborSubinterfaceLimit

*Table 52: ipv6NeighborSubinterfaceLimit properties*

| Property name | Value |
|---|---|
| Application name | arpnd |
| Event name | ipv6NeighborSubinterfaceLimit |
| Default severity | warning |
| Message format string | The number of IPv6 neighbor discovery entries on *interface-dot-subindex* has reached the allowed limit of *maximum-entries*. |


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| Property name | Value |
|---|---|
| Cause | This event is generated when the number of IPv6 neighbor entries in the subinterface is at the configured limit. |
| Effect | None |
| Raising event | N/A |
| Clearing event | N/A |

## 7.9 ipv6NeighborSubinterfaceLimitThreshold

*Table 53: ipv6NeighborSubinterfaceLimitThreshold properties*

| Property name | Value |
|---|---|
| Application name | arpnd |
| Event name | ipv6NeighborSubinterfaceLimitThreshold |
| Default severity | warning |
| Message format string | The number of IPv6 neighbor discovery entries on *interface-dot-subindex* has reached *pct-threshold* percent of the allowed limit of *maximum-entries*. |
| Cause | This event is generated when the number of IPv6 neighbor entries in the subinterface is at the configured threshold warning limit. |
| Effect | None |
| Raising event | N/A |
| Clearing event | N/A |


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# 8 bfd

## 8.1 bfdDownEvent

*Table 54: bfdDownEvent properties*

| Property name | Value |
|---|---|
| Application name | bfd |
| Event name | bfdDownEvent |
| Default severity | warning |
| Message format string | BFD: Network-instance *network-instance* - Session from *local-address*:*local-discriminator* to *remote-address*:*remote-discriminator* has transitioned to the *down-state* state with local-diagnostic code: *local-diagnostic-str* (*local-diagnostic-code*) and remote-diagnostic code: *remote-diagnostic-str* ( *remote-diagnostic-code*) |
| Cause | This notification is generated when a BFD session transitions to the Down or Admin Down state from an Up state. |
| Effect | The specified BFD session is now down. If the new state is Down, the session may be down due to a failure see the local or remote diagnostic code. If the new state is Admin-Down the session is down due to administrative reasons. |
| Raising event | N/A |
| Clearing event | N/A |

## 8.2 bfdMaxSessionActive

*Table 55: bfdMaxSessionActive properties*

| Property name | Value |
|---|---|
| Application name | bfd |
| Event name | bfdMaxSessionActive |
| Default severity | warning |
| Message format string | BFD: Network-instance *network-instance* - Session from *local-address* to *remote-address* requested by *client-protocol* could not be created |


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| Property name | Value |
|---|---|
| | because the maximum number of BFD sessions *bfd-max-session* are active. |
| Cause | This notification is generated when a BFD session cannot be created because the maximum number of BFD sessions are already active. |
| Effect | No more BFD sessions can be created until some existing sessions are removed. |
| Raising event | N/A |
| Clearing event | N/A |

## 8.3 bfdProtocolClientAdd

*Table 56: bfdProtocolClientAdd properties*

| Property name | Value |
|---|---|
| Application name | bfd |
| Event name | bfdProtocolClientAdd |
| Default severity | notice |
| Message format string | BFD: Network-instance *network-instance* - The protocol *client-protocol* is now using BFD session from *local-address*:*local-discriminator* to *remote-address*:*remote-discriminator* |
| Cause | This notification is generated when a new protocol begins to use a BFD session to track liveliness. |
| Effect | The specified protocol will be notified by BFD if the associated sessions transitions from an Up to a Down state. It will be up to the receiving protocol to determine the course of action. |
| Raising event | N/A |
| Clearing event | N/A |

## 8.4 bfdProtocolClientRemove

*Table 57: bfdProtocolClientRemove properties*

| Property name | Value |
|---|---|
| Application name | bfd |


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| Property name | Value |
|---|---|
| Event name | bfdProtocolClientRemove |
| Default severity | notice |
| Message format string | BFD: Network-instance *network-instance* - The protocol *client-protocol* using BFD session from *local-address*:*local-discriminator* to *remote-address*:*remote-discriminator* has been cleared |
| Cause | This notification is generated when a protocol stops using a BFD session to track liveliness. |
| Effect | The specified protocol will no longer be notified by BFD if the associated sessions transitions from an Up to a Down state |
| Raising event | N/A |
| Clearing event | N/A |

## 8.5 bfdSessionDeleted

*Table 58: bfdSessionDeleted properties*

| Property name | Value |
|---|---|
| Application name | bfd |
| Event name | bfdSessionDeleted |
| Default severity | notice |
| Message format string | BFD: Network-instance *network-instance* - Session from *local-address*:*local-discriminator* to *remote-address*:*remote-discriminator* has been deleted |
| Cause | This notification is generated when a BFD session has been removed from the configuration. |
| Effect | The BFD session has been removed. |
| Raising event | N/A |
| Clearing event | N/A |


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## 8.6 bfdSessionUp

*Table 59: bfdSessionUp properties*

| Property name | Value |
|---|---|
| Application name | bfd |
| Event name | bfdSessionUp |
| Default severity | notice |
| Message format string | BFD: Network-instance *network-instance* - Session from *local-address*:*local-discriminator* to *remote-address*:*remote-discriminator* is UP |
| Cause | This notification is generated when a BFD session transitions to the up state. |
| Effect | The BFD session is now operational. |
| Raising event | N/A |
| Clearing event | N/A |

## 8.7 bfdWarmrebootAdjustTimers

*Table 60: bfdWarmrebootAdjustTimers properties*

| Property name | Value |
|---|---|
| Application name | bfd |
| Event name | bfdWarmrebootAdjustTimers |
| Default severity | notice |
| Message format string | BFD: Warm reboot adjustment of BFD timers initiated |
| Cause | This notification is generated when BFD is notified to adjust timers in preparation for warm reboot. |
| Effect | The timers on warm reboot capable BFD sessions are adjusted to keep the sessions UP during the warm reboot |
| Raising event | N/A |
| Clearing event | N/A |


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## 8.8 bfdWarmrebootRestoreTimers

*Table 61: bfdWarmrebootRestoreTimers properties*

| Property name | Value |
|---|---|
| Application name | bfd |
| Event name | bfdWarmrebootRestoreTimers |
| Default severity | notice |
| Message format string | BFD: Warm reboot restoration of BFD timers initiated |
| Cause | This notification is generated when BFD is notified to restore timers at completion of warm reboot. |
| Effect | The timers on warm reboot capable BFD sessions are restored to their configured values |
| Raising event | N/A |
| Clearing event | N/A |

## 8.9 microbfdDownEvent

*Table 62: microbfdDownEvent properties*

| Property name | Value |
|---|---|
| Application name | bfd |
| Event name | microbfdDownEvent |
| Default severity | warning |
| Message format string | BFD: LAG *lag-interface* member *member-interface* - Session from *local-address*:*local-discriminator* to *remote-address*:*remote-discriminator* has transitioned to the *down-state* state with local-diagnostic code: *local-diagnostic-str* (*local-diagnostic-code*) and remote-diagnostic code: *remote-diagnostic-str* ( *remote-diagnostic-code*) |
| Cause | This notification is generated when a BFD session transitions to the Down or Admin Down state from an Up state. |
| Effect | The specified BFD session is now down. If the new state is Down, the session may be down due to a failure see the local or remote diagnostic code. If the new state is Admin-Down the session is down due to administrative reasons. |


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| Property name | Value |
|---|---|
| Raising event | N/A |
| Clearing event | N/A |

## 8.10 microbfdMaxSessionActive

*Table 63: microbfdMaxSessionActive properties*

| Property name | Value |
|---|---|
| Application name | bfd |
| Event name | microbfdMaxSessionActive |
| Default severity | warning |
| Message format string | BFD: LAG *lag-interface* member *member-interface* - Session from *local-address* to *remote-address* could not be created because the maximum number of BFD sessions *bfd-max-session* are active. |
| Cause | This notification is generated when a BFD session cannot be created because the maximum number of BFD sessions are already active. |
| Effect | No more BFD sessions can be created until some existing sessions are removed. |
| Raising event | N/A |
| Clearing event | N/A |

## 8.11 microbfdSessionDeleted

*Table 64: microbfdSessionDeleted properties*

| Property name | Value |
|---|---|
| Application name | bfd |
| Event name | microbfdSessionDeleted |
| Default severity | notice |
| Message format string | BFD: LAG *lag-interface* member *member-interface* - Session from *local-address*:*local-discriminator* to *remote-address*:*remote-discriminator* has been deleted |


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| Property name | Value |
|---|---|
| Cause | This notification is generated when a BFD session has been removed from the configuration. |
| Effect | The BFD session has been removed. |
| Raising event | N/A |
| Clearing event | N/A |

## 8.12 microbfdSessionUp

*Table 65: microbfdSessionUp properties*

| Property name | Value |
|---|---|
| Application name | bfd |
| Event name | microbfdSessionUp |
| Default severity | notice |
| Message format string | BFD: LAG *lag-interface* member *member-interface* - Session from *local-address*:*local-discriminator* to *remote-address*:*remote-discriminator* is UP |
| Cause | This notification is generated when a BFD session transitions to the up state. |
| Effect | The BFD session is now operational. |
| Raising event | N/A |
| Clearing event | N/A |

## 8.13 sbfdechoDownEvent

*Table 66: sbfdechoDownEvent properties*

| Property name | Value |
|---|---|
| Application name | bfd |
| Event name | sbfdechoDownEvent |
| Default severity | warning |


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| Property name | Value |
|---|---|
| Message format string | BFD: BFD: SR Policy Id *policy-id* Policy Name *policy-name* User Type *user-type* Endpoint *endpoint* Network-instance *network-instance* - SBFD Echo Session discriminator *local-discriminator* has transitioned to the *down-state* state with local-diagnostic code: *local-diagnostic-str* (*local-diagnostic-code*) |
| Cause | This notification is generated when a BFD session transitions to the Down or Admin Down state from an Up state. |
| Effect | The specified BFD session is now down. If the new state is Down, the session may be down due to a failure see the local or remote diagnostic code. If the new state is Admin-Down the session is down due to administrative reasons. |
| Raising event | N/A |
| Clearing event | N/A |

## 8.14 sbfdechoMaxSessionActive

*Table 67: sbfdechoMaxSessionActive properties*

| Property name | Value |
|---|---|
| Application name | bfd |
| Event name | sbfdechoMaxSessionActive |
| Default severity | warning |
| Message format string | BFD: SR Policy Id *policy-id* Policy Name *policy-name* User Type *user-type* Endpoint *endpoint* Network-instance *network-instance* - SBFD Echo Session requested by *client-protocol* could not be created because the maximum number of BFD sessions *bfd-max-session* are active. |
| Cause | This notification is generated when a BFD session cannot be created because the maximum number of BFD sessions are already active. |
| Effect | No more BFD sessions can be created until some existing sessions are removed. |
| Raising event | N/A |
| Clearing event | N/A |


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## 8.15 sbfdechoSessionDeleted

*Table 68: sbfdechoSessionDeleted properties*

| Property name | Value |
|---|---|
| Application name | bfd |
| Event name | sbfdechoSessionDeleted |
| Default severity | notice |
| Message format string | BFD: SR Policy Id *policy-id* Policy Name *policy-name* User Type *user-type* Endpoint *endpoint* Network-instance *network-instance* - SBFD Echo Session discriminator *local-discriminator* has been deleted |
| Cause | This notification is generated when a BFD session has been removed from the configuration. |
| Effect | The BFD session has been removed. |
| Raising event | N/A |
| Clearing event | N/A |

## 8.16 sbfdechoSessionUp

*Table 69: sbfdechoSessionUp properties*

| Property name | Value |
|---|---|
| Application name | bfd |
| Event name | sbfdechoSessionUp |
| Default severity | notice |
| Message format string | BFD: SR Policy Id *policy-id* Policy Name *policy-name* User Type *user-type* Endpoint *endpoint* Network-instance *network-instance* - SBFD Echo Session discriminator *local-discriminator* is UP |
| Cause | This notification is generated when a BFD session transitions to the up state. |
| Effect | The BFD session is now operational. |
| Raising event | N/A |
| Clearing event | N/A |


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# 9 bgp

## 9.1 bgpIncomingDynamicPeerLimitReached

*Table 70: bgpIncomingDynamicPeerLimitReached properties*

| Property name | Value |
|---|---|
| Application name | bgp |
| Event name | bgpIncomingDynamicPeerLimitReached |
| Default severity | notice |
| Message format string | In network-instance *network-instance*, an incoming BGP connection from *peer-address* was rejected because the limit for the maximum number of incoming dynamic peers, *max-sessions*, has been reached. |
| Cause | The configured limit on the number of incoming sessions associated with dynamic peers has been reached. |
| Effect | The incoming connection attempt is rejected. |
| Raising event | N/A |
| Clearing event | N/A |

## 9.2 bgpIncomingInterfaceDynamicPeerLimitReached

*Table 71: bgpIncomingInterfaceDynamicPeerLimitReached properties*

| Property name | Value |
|---|---|
| Application name | bgp |
| Event name | bgpIncomingInterfaceDynamicPeerLimitReached |
| Default severity | notice |
| Message format string | In network-instance *network-instance*, an incoming BGP connection from *peer-address* was rejected because the limit for the maximum number of incoming interface dynamic peers, *max-sessions*, has been reached for the interface *interface*. |
| Cause | This event is generated when the dynamic session limit for this interface is reached. |


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| Property name | Value |
|---|---|
| Effect | The incoming connection attempt is rejected. |
| Raising event | N/A |
| Clearing event | N/A |

## 9.3 bgpInstanceConvergenceStateTransition

*Table 72: bgpInstanceConvergenceStateTransition properties*

| Property name | Value |
|---|---|
| Application name | bgp |
| Event name | bgpInstanceConvergenceStateTransition |
| Default severity | notice |
| Message format string | In network-instance *network-instance*, the BGP convergence state for the *address-family* address family transitioned from the *previous-state* state to the *new-state* state |
| Cause | This event is generated when the BGP convergence process is being tracked and a state transition occurs |
| Effect | Dependent on the new state |
| Raising event | N/A |
| Clearing event | N/A |

## 9.4 bgpLowMemory

*Table 73: bgpLowMemory properties*

| Property name | Value |
|---|---|
| Application name | bgp |
| Event name | bgpLowMemory |
| Default severity | critical |
| Message format string | In network-instance *network-instance*, the BGP session with *peer-address* was terminated immediately because BGP has out of memory. |


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| Property name | Value |
|---|---|
| Cause | BGP has run out of memory and this peer has been shutdown to reclaim some memory. |
| Effect | No routes can be exchanged with this peer. |
| Raising event | N/A |
| Clearing event | N/A |

## 9.5 bgpNeighborBackwardTransition

*Table 74: bgpNeighborBackwardTransition properties*

| Property name | Value |
|---|---|
| Application name | bgp |
| Event name | bgpNeighborBackwardTransition |
| Default severity | warning |
| Message format string | In network-instance *network-instance*, the BGP session with *peer-address* moved from higher state *last-state* to lower state *session-state* due to event *last-event* |
| Cause | This event is generated when the BGP FSM moves from a higher numbered state to a lower numbered state. |
| Effect | No routes can be exchanged with this peer. |
| Raising event | N/A |
| Clearing event | N/A |

## 9.6 bgpNeighborClosedTCPConn

*Table 75: bgpNeighborClosedTCPConn properties*

| Property name | Value |
|---|---|
| Application name | bgp |
| Event name | bgpNeighborClosedTCPConn |
| Default severity | warning |


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| Property name | Value |
|---|---|
| Message format string | In network-instance *network-instance*, the BGP session with *peer-address* was closed because the neighbor closed the TCP connection. |
| Cause | The router received a TCP FIN message from its peer. |
| Effect | No routes can be exchanged with this peer. |
| Raising event | N/A |
| Clearing event | N/A |

## 9.7 bgpNeighborEstablished

*Table 76: bgpNeighborEstablished properties*

| Property name | Value |
|---|---|
| Application name | bgp |
| Event name | bgpNeighborEstablished |
| Default severity | notice |
| Message format string | In network-instance *network-instance*, the BGP session with *peer-address* moved into the ESTABLISHED state |
| Cause | The BGP session entered the ESTABLISHED state. |
| Effect | Routes of negotiated address families can now be exchanged with this peer. |
| Raising event | N/A |
| Clearing event | N/A |

## 9.8 bgpNeighborGRHelpingStarted

*Table 77: bgpNeighborGRHelpingStarted properties*

| Property name | Value |
|---|---|
| Application name | bgp |
| Event name | bgpNeighborGRHelpingStarted |
| Default severity | notice |


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| Property name | Value |
|---|---|
| Message format string | In network-instance *network-instance*, the router has started providing GR helper service to the neighbor *peer-address* |
| Cause | GR helper is activated |
| Effect | Routes previously received from the peer, prior to its restart, are retained as stale until the stale-routes-time expires. |
| Raising event | N/A |
| Clearing event | N/A |

## 9.9 bgpNeighborGRHelpingStopped

*Table 78: bgpNeighborGRHelpingStopped properties*

| Property name | Value |
|---|---|
| Application name | bgp |
| Event name | bgpNeighborGRHelpingStopped |
| Default severity | notice |
| Message format string | In network-instance *network-instance*, the router has stopped providing GR helper service to the neighbor *peer-address* |
| Cause | GR helper is deactivated |
| Effect | Any remaining stale routes are immediately removed. |
| Raising event | N/A |
| Clearing event | N/A |

## 9.10 bgpNeighborHoldTimeExpired

*Table 79: bgpNeighborHoldTimeExpired properties*

| Property name | Value |
|---|---|
| Application name | bgp |
| Event name | bgpNeighborHoldTimeExpired |
| Default severity | warning |


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| Property name | Value |
|---|---|
| Message format string | In network-instance *network-instance*, the BGP session with *peer-address* was terminated because a KEEPALIVE message was not received before the holdtime limit of *negotiated-hold-time* was reached. |
| Cause | BGP did not receive a KEEPALIVE message from the peer before the negotiated holdtime expired. |
| Effect | No routes can be exchanged with this peer. |
| Raising event | N/A |
| Clearing event | N/A |

## 9.11 bgpNeighborInvalidLocalIP

*Table 80: bgpNeighborInvalidLocalIP properties*

| Property name | Value |
|---|---|
| Application name | bgp |
| Event name | bgpNeighborInvalidLocalIP |
| Default severity | warning |
| Message format string | In network-instance *network-instance*, an incoming BGP connection from *peer-address* was rejected because the destination IP address does not match the allowed local-address, *local-address*. |
| Cause | BGP configuration does not allow an incoming BGP connection to this IP address. |
| Effect | No routes can be exchanged with this peer. |
| Raising event | N/A |
| Clearing event | N/A |

## 9.12 bgpNeighborNoOpenReceived

*Table 81: bgpNeighborNoOpenReceived properties*

| Property name | Value |
|---|---|
| Application name | bgp |
| Event name | bgpNeighborNoOpenReceived |


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| Property name | Value |
|---|---|
| Default severity | warning |
| Message format string | In network-instance *network-instance*, the BGP session with *peer-address* was terminated because an OPEN message was not received before the configured holdtime limit was reached. |
| Cause | BGP did not receive an OPEN message from the peer before the configured holdtime expired. |
| Effect | No routes can be exchanged with this peer. |
| Raising event | N/A |
| Clearing event | N/A |

## 9.13 bgpNeighborPrefixLimitReached

*Table 82: bgpNeighborPrefixLimitReached properties*

| Property name | Value |
|---|---|
| Application name | bgp |
| Event name | bgpNeighborPrefixLimitReached |
| Default severity | notice |
| Message format string | In network-instance *network-instance*, the number of *family* routes received from the neighbor *peer-address* has exceeded the configured limit. |
| Cause | The number of received routes from the peer has exceeded the configured limit for the associated address family. |
| Effect | No effect. Routes above the limit are still received and processed. |
| Raising event | N/A |
| Clearing event | N/A |

## 9.14 bgpNeighborPrefixLimitThresholdReached

*Table 83: bgpNeighborPrefixLimitThresholdReached properties*

| Property name | Value |
|---|---|
| Application name | bgp |


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| Property name | Value |
|---|---|
| Event name | bgpNeighborPrefixLimitThresholdReached |
| Default severity | notice |
| Message format string | In network-instance *network-instance*, the number of *family* routes received from the neighbor *peer-address* has exceeded the configured threshold, which is *warning-threshold-pct*% of the limit. |
| Cause | The number of received routes from the peer has exceeded the configured threshold for the associated address family. |
| Effect | No effect. Routes above the threshold are still received and processed. |
| Raising event | N/A |
| Clearing event | N/A |

## 9.15 bgpNeighborUnknownRemoteIP

*Table 84: bgpNeighborUnknownRemoteIP properties*

| Property name | Value |
|---|---|
| Application name | bgp |
| Event name | bgpNeighborUnknownRemoteIP |
| Default severity | warning |
| Message format string | In network-instance *network-instance*, an incoming BGP connection from *peer-address* was rejected because the source IP address does not match the address of any configured neighbor or any dynamic-neighbor block. |
| Cause | BGP configuration does not allow an incoming BGP connection from this IP address. |
| Effect | No routes can be exchanged with this peer. |
| Raising event | N/A |
| Clearing event | N/A |


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## 9.16 bgpNLRIInvalid

*Table 85: bgpNLRIInvalid properties*

| Property name | Value |
|---|---|
| Application name | bgp |
| Event name | bgpNLRIInvalid |
| Default severity | warning |
| Message format string | In network-instance *network-instance*, a route for NLRI *nlri* was received from neighbor *peer-address* and it was ignored because it is considered an invalid NLRI. |
| Cause | The router received an UPDATE with an invalid NLRI |
| Effect | The route associated with the NLRI is not added or removed from the BGP RIB. |
| Raising event | N/A |
| Clearing event | N/A |

## 9.17 bgpNotificationReceivedFromNeighbor

*Table 86: bgpNotificationReceivedFromNeighbor properties*

| Property name | Value |
|---|---|
| Application name | bgp |
| Event name | bgpNotificationReceivedFromNeighbor |
| Default severity | warning |
| Message format string | In network-instance *network-instance*, the BGP session with *peer-address* was closed because the neighbor sent a NOTIFICATION with code *last-notification-error-code* and subcode *last-notification-error-subcode* |
| Cause | The router received a NOTIFICATION message from its peer. |
| Effect | No routes can be exchanged with this peer. |
| Raising event | N/A |
| Clearing event | N/A |


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## 9.18 bgpNotificationSentToNeighbor

*Table 87: bgpNotificationSentToNeighbor properties*

| Property name | Value |
|---|---|
| Application name | bgp |
| Event name | bgpNotificationSentToNeighbor |
| Default severity | warning |
| Message format string | In network-instance *network-instance*, the BGP session with *peer-address* was closed because the router sent this neighbor a NOTIFICATION with code *last-notification-error-code* and subcode *last-notification-error-subcode* |
| Cause | The router sent a NOTIFICATION message to its peer. |
| Effect | No routes can be exchanged with this peer. |
| Raising event | N/A |
| Clearing event | N/A |

## 9.19 bgpOutgoingDynamicPeerLimitReached

*Table 88: bgpOutgoingDynamicPeerLimitReached properties*

| Property name | Value |
|---|---|
| Application name | bgp |
| Event name | bgpOutgoingDynamicPeerLimitReached |
| Default severity | notice |
| Message format string | In network-instance *network-instance*, no session was initiated towards the LLDP-discovered address *peer-address* because the limit for the maximum number of outgoing dynamic peers, *max-sessions*, has been reached. |
| Cause | The configured limit on the number of outgoing sessions associated with dynamic peers has been reached. |
| Effect | No connection attempt is made by the router. |
| Raising event | N/A |
| Clearing event | N/A |


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## 9.20 bgpPathAttributeDiscarded

*Table 89: bgpPathAttributeDiscarded properties*

| Property name | Value |
|---|---|
| Application name | bgp |
| Event name | bgpPathAttributeDiscarded |
| Default severity | warning |
| Message format string | In network-instance *network-instance*, a path attribute of type *attribute-type* and length *attribute-length* was discarded in a route received from the neighbor *peer-address*. |
| Cause | The path attribute was malformed and the attribute-discard approach is used for this type of attribute. |
| Effect | The intended meaning of that path attribute is not applied but the UPDATE message is still processed for new reachabiity information. |
| Raising event | N/A |
| Clearing event | N/A |

## 9.21 bgpPathAttributeMalformed

*Table 90: bgpPathAttributeMalformed properties*

| Property name | Value |
|---|---|
| Application name | bgp |
| Event name | bgpPathAttributeMalformed |
| Default severity | warning |
| Message format string | In network-instance *network-instance*, a path attribute of type *attribute-type* and length *attribute-length* that was received in a route from the neighbor *peer-address* was considered malformed. |
| Cause | The router considers a path attribute to be malformed, for example not the expected length. The UPDATE message can still be parsed though. |
| Effect | Dependent on the type of the malformed path attribute. Either the malformed attribute is discarded or else the entire UPDATE message is considered to have unreachable NLRI. |
| Raising event | N/A |


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| Property name | Value |
|---|---|
| Clearing event | N/A |

## 9.22 bgpRouteWithdrawnDueToError

*Table 91: bgpRouteWithdrawnDueToError properties*

| Property name | Value |
|---|---|
| Application name | bgp |
| Event name | bgpRouteWithdrawnDueToError |
| Default severity | warning |
| Message format string | In network-instance *network-instance*, a route for NLRI *nlri* was received from neighbor *peer-address* and it was considered withdrawn because of a recoverable error in the UPDATE message. |
| Cause | The router received a malformed UPDATE and the malformed path attribute(s) require as a treat-as-withdraw error handling behavior for the included set of routes. |
| Effect | There is no reachability for the NLRI in the malformed UPDATE message. |
| Raising event | N/A |
| Clearing event | N/A |

## 9.23 bgpUpdateInvalid

*Table 92: bgpUpdateInvalid properties*

| Property name | Value |
|---|---|
| Application name | bgp |
| Event name | bgpUpdateInvalid |
| Default severity | warning |
| Message format string | In network-instance *network-instance*, an UPDATE message received from neighbor *peer-address* was considered invalid and caused the connection to be closed because the NLRI could not be parsed correctly. |


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| Property name | Value |
|---|---|
| Cause | The router received a malformed UPDATE which made it is impossible to identify all of the NLRI correctly. |
| Effect | The session is shutdown. |
| Raising event | N/A |
| Clearing event | N/A |

## 9.24 bmpPeerMonitoringStarted

*Table 93: bmpPeerMonitoringStarted properties*

| Property name | Value |
|---|---|
| Application name | bgp |
| Event name | bmpPeerMonitoringStarted |
| Default severity | informational |
| Message format string | In network-instance *network-instance*, BMP monitoring of BGP peer *peer-address* started for station *station-name*. |
| Cause | A BMP Peer Up notification was sent to the station because the BGP peer reached the Established state and is being monitored. |
| Effect | Route monitoring messages for this peer are now exported to this station. |
| Raising event | N/A |
| Clearing event | N/A |

## 9.25 bmpPeerMonitoringStopped

*Table 94: bmpPeerMonitoringStopped properties*

| Property name | Value |
|---|---|
| Application name | bgp |
| Event name | bmpPeerMonitoringStopped |
| Default severity | informational |


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| Property name | Value |
|---|---|
| Message format string | In network-instance *network-instance*, BMP monitoring of BGP peer *peer-address* stopped for station *station-name*. |
| Cause | A BMP Peer Down notification was sent to the station because the BGP peer left the Established state or monitoring was withdrawn. |
| Effect | Route monitoring messages for this peer are no longer exported to this station. |
| Raising event | N/A |
| Clearing event | N/A |

## 9.26 bmpSessionClosed

*Table 95: bmpSessionClosed properties*

| Property name | Value |
|---|---|
| Application name | bgp |
| Event name | bmpSessionClosed |
| Default severity | warning |
| Message format string | In network-instance *network-instance*, the BMP session to station *station-name* moved out of the ESTABLISHED state. |
| Cause | An established BMP session transitioned to a non-established state. This covers an administrative close, a keepalive timeout, a reset by the collector, and a send failure. |
| Effect | BMP monitoring data is no longer being exported to this station until the session is re-established. |
| Raising event | N/A |
| Clearing event | N/A |

## 9.27 bmpSessionEstablished

*Table 96: bmpSessionEstablished properties*

| Property name | Value |
|---|---|
| Application name | bgp |


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| Property name | Value |
|---|---|
| Event name | bmpSessionEstablished |
| Default severity | informational |
| Message format string | In network-instance *network-instance*, the BMP session to station *station-name* moved into the ESTABLISHED state. |
| Cause | The TCP connection to the BMP station was established and the initiation message was sent successfully. |
| Effect | BMP monitoring data is now being exported to this station. |
| Raising event | N/A |
| Clearing event | N/A |

## 9.28 malformedUpdatesBufferFull

*Table 97: malformedUpdatesBufferFull properties*

| Property name | Value |
|---|---|
| Application name | bgp |
| Event name | malformedUpdatesBufferFull |
| Default severity | debug |
| Message format string | BGP neighbor *neighbor* malformed-updates buffer is full (*max* entries); new malformed UPDATE not retained |
| Cause | A malformed UPDATE arrived for a neighbor that has already reached max-entries-per-neighbor; the new entry is not retained. |
| Effect | The new malformed UPDATE is not retained. |
| Raising event | N/A |
| Clearing event | N/A |

## 9.29 malformedUpdatesEntriesEvicted

*Table 98: malformedUpdatesEntriesEvicted properties*

| Property name | Value |
|---|---|
| Application name | bgp |


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| Property name | Value |
|---|---|
| Event name | malformedUpdatesEntriesEvicted |
| Default severity | debug |
| Message format string | BGP neighbor *neighbor* malformed-updates limit lowered to *new-limit*; *count* oldest entries evicted |
| Cause | max-entries-per-neighbor was reconfigured below the neighbor's current retained entry count. |
| Effect | The oldest entries are evicted until the count fits the new limit. |
| Raising event | N/A |
| Clearing event | N/A |


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# 10 bridgetable

## 10.1 evpnMplsBgpInstanceBridgeTableMulticastDestinationsLimitHighUtilization

*Table 99: evpnMplsBgpInstanceBridgeTableMulticastDestinationsLimitHighUtilization properties*

| Property name | Value |
|---|---|
| Application name | bridgetable |
| Event name | evpnMplsBgpInstanceBridgeTableMulticastDestinationsLimitHigh Utilization |
| Default severity | warning |
| Message format string | The number of Evpn-Mpls Multicast Destinations in the bridge table for bgp-instance *bgp-instance* on network-instance *network-instance* has reached *pct-threshold*% of the allowed limit of *maximum-entries*. |
| Cause | This event is generated when the number of Evpn-Mpls Multicast Destinations in the bgp-instance reaches the warning threshold percentage of the allowed limit. |
| Effect | None |
| Raising event | N/A |
| Clearing event | N/A |

## 10.2 evpnMplsBgpInstanceBridgeTableMulticastDestinationsLimitHighUtilizationLow

*Table 100: evpnMplsBgpInstanceBridgeTableMulticastDestinationsLimitHighUtilizationLowered properties*

| Property name | Value |
|---|---|
| Application name | bridgetable |
| Event name | evpnMplsBgpInstanceBridgeTableMulticastDestinationsLimitHigh UtilizationLowered |
| Default severity | notice |
| Message format string | The number of Evpn-Mpls Multicast Destinations in the bridge table for bgp-instance *bgp-instance* on network-instance *network-instance* |


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| Property name | Value |
|---|---|
| | is now below a *pct-threshold*% minus 5% of the allowed limit of *maximum-entries*. |
| Cause | This event is generated when the number of Evpn-Mpls Multicast Destinations in the bgp-instance is 5% below the warning threshold percentage of the allowed limit, after having exceeded the maximum percentage threshold of the allowed limit. |
| Effect | None |
| Raising event | N/A |
| Clearing event | N/A |

## 10.3 evpnMplsBgpInstanceBridgeTableMulticastDestinationsLimitLowered

*Table 101: evpnMplsBgpInstanceBridgeTableMulticastDestinationsLimitLowered properties*

| Property name | Value |
|---|---|
| Application name | bridgetable |
| Event name | evpnMplsBgpInstanceBridgeTableMulticastDestinationsLimitLowered |
| Default severity | notice |
| Message format string | The number of Evpn-Mpls Multicast Destinations in the bridge table for bgp-instance *bgp-instance* on network-instance *network-instance* is now below the allowed limit of *maximum-entries*. |
| Cause | This event is generated when the number of Evpn-Mpls Multicast Destinations in a bgp-instance goes below the allowed limit, after being above the allowed limit |
| Effect | New Evpn-Mpls Multicast Destinations can be added to the multicast list of the network-instance. |
| Raising event | N/A |
| Clearing event | N/A |


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## 10.4 evpnMplsBgpInstanceBridgeTableMulticastDestinationsLimitReached

*Table 102: evpnMplsBgpInstanceBridgeTableMulticastDestinationsLimitReached properties*

| Property name | Value |
|---|---|
| Application name | bridgetable |
| Event name | evpnMplsBgpInstanceBridgeTableMulticastDestinationsLimitReached |
| Default severity | warning |
| Message format string | The number of Evpn-Mpls Multicast Destinations in the bridge table for bgp-instance *bgp-instance* on network-instance *network-instance* is at the allowed limit of *maximum-entries*. |
| Cause | This event is generated when the number of Evpn-Mpls Multicast Destinations in a bgp-instance is at the allowed limit. |
| Effect | New Evpn-Mpls Multicast Destinations cannot be added to the multicast list of the network-instance. |
| Raising event | N/A |
| Clearing event | N/A |

## 10.5 l2ConnectionpointBridgeTableDuplicateMacAddressDeleted

*Table 103: l2ConnectionpointBridgeTableDuplicateMacAddressDeleted properties*

| Property name | Value |
|---|---|
| Application name | bridgetable |
| Event name | l2ConnectionpointBridgeTableDuplicateMacAddressDeleted |
| Default severity | notice |
| Message format string | A duplicate MAC address *mac-address* detected on connection-point *connection-point* on *network-instance* is now deleted. |
| Cause | This event is generated when a duplicate MAC address is deleted. |
| Effect | The duplicate mac-address is now deleted. |
| Raising event | N/A |
| Clearing event | N/A |


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## 10.6 l2ConnectionpointBridgeTableDuplicateMacAddressDetected

*Table 104: l2ConnectionpointBridgeTableDuplicateMacAddressDetected properties*

| Property name | Value |
|---|---|
| Application name | bridgetable |
| Event name | l2ConnectionpointBridgeTableDuplicateMacAddressDetected |
| Default severity | notice |
| Message format string | A duplicate MAC address *mac-address* was detected on connection-point *connection-point* on *network-instance*. |
| Cause | This event is generated when a duplicate MAC address is detected, qualified by the bridge-table mac-duplication configuration under the network-instance and the connection-points configured under the network-instance. |
| Effect | depending on the mac-duplication configuration, traffic destined to the duplicate mac-address maybe blackholed or not reprogrammed against any other connection-point on the network-instance |
| Raising event | N/A |
| Clearing event | N/A |

## 10.7 l2ConnectionpointBridgeTableMacLimitHighUtilization

*Table 105: l2ConnectionpointBridgeTableMacLimitHighUtilization properties*

| Property name | Value |
|---|---|
| Application name | bridgetable |
| Event name | l2ConnectionpointBridgeTableMacLimitHighUtilization |
| Default severity | warning |
| Message format string | The number of MAC addresses in the bridge table for connection-point *connection-point* on *network-instance* has reached *pct-threshold*% of the allowed limit of *maximum-entries*. |
| Cause | This event is generated when the number of MAC addresses in the bridge table for a connection-point reaches the configured warning threshold percentage of the allowed limit. |
| Effect | None |


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| Property name | Value |
|---|---|
| Raising event | N/A |
| Clearing event | N/A |

## 10.8 l2ConnectionpointBridgeTableMacLimitHighUtilizationLowered

*Table 106: l2ConnectionpointBridgeTableMacLimitHighUtilizationLowered properties*

| Property name | Value |
|---|---|
| Application name | bridgetable |
| Event name | l2ConnectionpointBridgeTableMacLimitHighUtilizationLowered |
| Default severity | notice |
| Message format string | The number of MAC addresses in the bridge table for connection-point *connection-point* on *network-instance* is below *pct-threshold*% (minus 5%) of the allowed limit of *maximum-entries*. |
| Cause | This event is generated when the number of MAC addresses in the bridge table for a connection-point is below 5% minus the warning threshold percentage of the allowed limit, after having exceeded the maximum percentage threshold of the allowed limit. |
| Effect | None |
| Raising event | N/A |
| Clearing event | N/A |

## 10.9 l2ConnectionpointBridgeTableMacLimitLowered

*Table 107: l2ConnectionpointBridgeTableMacLimitLowered properties*

| Property name | Value |
|---|---|
| Application name | bridgetable |
| Event name | l2ConnectionpointBridgeTableMacLimitLowered |
| Default severity | notice |
| Message format string | The number of MAC addresses in the bridge table for the connection-point *connection-point* on *network-instance* is below the allowed limit of *maximum-entries*. |


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| Property name | Value |
|---|---|
| Cause | This event is generated when the number of MAC addresses in the bridge table for a connection-point is below the allowed limit, after being above the allowed limit |
| Effect | new mac-addresses for the connection-point can now be added to the bridge table. |
| Raising event | N/A |
| Clearing event | N/A |

## 10.10 l2ConnectionpointBridgeTableMacLimitReached

*Table 108: l2ConnectionpointBridgeTableMacLimitReached properties*

| Property name | Value |
|---|---|
| Application name | bridgetable |
| Event name | l2ConnectionpointBridgeTableMacLimitReached |
| Default severity | warning |
| Message format string | The number of MAC addresses in the bridge table for the connection-point *connection-point* on *network-instance* has reached the allowed limit of *maximum-entries*. |
| Cause | This event is generated when the number of MAC addresses in the bridge table for the connection-point is at the allowed limit. |
| Effect | new mac-addresses for the connection-point cannot be added in the bridge table. |
| Raising event | N/A |
| Clearing event | N/A |

## 10.11 l2SubinterfaceBridgeTableDuplicateMacAddressDeleted

*Table 109: l2SubinterfaceBridgeTableDuplicateMacAddressDeleted properties*

| Property name | Value |
|---|---|
| Application name | bridgetable |
| Event name | l2SubinterfaceBridgeTableDuplicateMacAddressDeleted |


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| Property name | Value |
|---|---|
| Default severity | notice |
| Message format string | A duplicate MAC address *mac-address* detected on sub-interface *interface*.*subinterface-index* is now deleted. |
| Cause | This event is generated when a duplicate MAC address is deleted. |
| Effect | The duplicate mac-address is now deleted. |
| Raising event | N/A |
| Clearing event | N/A |

## 10.12 l2SubinterfaceBridgeTableDuplicateMacAddressDetected

*Table 110: l2SubinterfaceBridgeTableDuplicateMacAddressDetected properties*

| Property name | Value |
|---|---|
| Application name | bridgetable |
| Event name | l2SubinterfaceBridgeTableDuplicateMacAddressDetected |
| Default severity | notice |
| Message format string | A duplicate MAC address *mac-address* was detected on sub-interface *interface*.*subinterface-index*. |
| Cause | This event is generated when a duplicate MAC address is detected, qualified by the bridge-table mac-duplication configuration under the network-instance and the sub-interfaces configured under the network-instance. |
| Effect | depending on the mac-duplication configuration, traffic destined to the duplicate mac-address maybe blackholed or not reprogrammed against any other sub-interface on the network-instance |
| Raising event | N/A |
| Clearing event | N/A |


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## 10.13 l2SubinterfaceBridgeTableMacLimitHighUtilization

*Table 111: l2SubinterfaceBridgeTableMacLimitHighUtilization properties*

| Property name | Value |
|---|---|
| Application name | bridgetable |
| Event name | l2SubinterfaceBridgeTableMacLimitHighUtilization |
| Default severity | warning |
| Message format string | The number of MAC addresses in the bridge table for sub-interface *interface*.*subinterface-index* has reached *pct-threshold*% of the allowed limit of *maximum-entries*. |
| Cause | This event is generated when the number of MAC addresses in the bridge table for a sub-interface reaches the configured warning threshold percentage of the allowed limit. |
| Effect | None |
| Raising event | N/A |
| Clearing event | N/A |

## 10.14 l2SubinterfaceBridgeTableMacLimitHighUtilizationLowered

*Table 112: l2SubinterfaceBridgeTableMacLimitHighUtilizationLowered properties*

| Property name | Value |
|---|---|
| Application name | bridgetable |
| Event name | l2SubinterfaceBridgeTableMacLimitHighUtilizationLowered |
| Default severity | notice |
| Message format string | The number of MAC addresses in the bridge table for sub-interface *interface*.*subinterface-index* is below *pct-threshold*% (minus 5%) of the allowed limit of *maximum-entries*. |
| Cause | This event is generated when the number of MAC addresses in the bridge table for a sub-interface is below 5% minus the warning threshold percentage of the allowed limit, after having exceeded the maximum percentage threshold of the allowed limit. |
| Effect | None |
| Raising event | N/A |


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| Property name | Value |
|---|---|
| Clearing event | N/A |

## 10.15 l2SubinterfaceBridgeTableMacLimitLowered

*Table 113: l2SubinterfaceBridgeTableMacLimitLowered properties*

| Property name | Value |
|---|---|
| Application name | bridgetable |
| Event name | l2SubinterfaceBridgeTableMacLimitLowered |
| Default severity | notice |
| Message format string | The number of MAC addresses in the bridge table for the sub-interface *interface*.*subinterface-index* is below the allowed limit of *maximum-entries*. |
| Cause | This event is generated when the number of MAC addresses in the bridge table for a sub-interface is below the allowed limit, after being above the allowed limit |
| Effect | new mac-addresses for the sub-interface can now be added to the bridge table. |
| Raising event | N/A |
| Clearing event | N/A |

## 10.16 l2SubinterfaceBridgeTableMacLimitReached

*Table 114: l2SubinterfaceBridgeTableMacLimitReached properties*

| Property name | Value |
|---|---|
| Application name | bridgetable |
| Event name | l2SubinterfaceBridgeTableMacLimitReached |
| Default severity | warning |
| Message format string | The number of MAC addresses in the bridge table for the sub-interface *interface*.*subinterface-index* has reached the allowed limit of *maximum-entries*. |
| Cause | This event is generated when the number of MAC addresses in the bridge table for the sub-interface is at the allowed limit. |


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| Property name | Value |
|---|---|
| Effect | new mac-addresses for the sub-interface cannot be added in the bridge table. |
| Raising event | N/A |
| Clearing event | N/A |

## 10.17 networkInstanceBridgeTableDuplicateMacAddressDeleted

*Table 115: networkInstanceBridgeTableDuplicateMacAddressDeleted properties*

| Property name | Value |
|---|---|
| Application name | bridgetable |
| Event name | networkInstanceBridgeTableDuplicateMacAddressDeleted |
| Default severity | notice |
| Message format string | A duplicate MAC address *mac-address* detected on *network-instance* is now deleted. |
| Cause | This event is generated when a duplicate MAC address is deleted. |
| Effect | The duplicate mac-address is now deleted. |
| Raising event | N/A |
| Clearing event | N/A |

## 10.18 networkInstanceBridgeTableDuplicateMacAddressDetected

*Table 116: networkInstanceBridgeTableDuplicateMacAddressDetected properties*

| Property name | Value |
|---|---|
| Application name | bridgetable |
| Event name | networkInstanceBridgeTableDuplicateMacAddressDetected |
| Default severity | notice |
| Message format string | A duplicate MAC address *mac-address* was detected on *network-instance*. |
| Cause | This event is generated when a duplicate MAC address is detected, qualified by the bridge-table mac-duplication configuration under the |


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| Property name | Value |
|---|---|
| | network-instance and the sub-interfaces configured under the network-instance. |
| Effect | depending on the mac-duplication configuration, traffic destined to the duplicate mac-address maybe blackholed or not reprogrammed against any other sub-interface on the network-instance |
| Raising event | N/A |
| Clearing event | N/A |

## 10.19 networkInstanceBridgeTableMacLimitHighUtilization

*Table 117: networkInstanceBridgeTableMacLimitHighUtilization properties*

| Property name | Value |
|---|---|
| Application name | bridgetable |
| Event name | networkInstanceBridgeTableMacLimitHighUtilization |
| Default severity | warning |
| Message format string | The number of MAC addresses in the bridge table of network-instance *network-instance* has reached *pct-threshold*% of the allowed limit of *maximum-entries*. |
| Cause | This event is generated when the number of MAC addresses in the bridge table of a network-instance reaches the configured warning threshold percentage of the allowed limit. |
| Effect | None |
| Raising event | N/A |
| Clearing event | N/A |

## 10.20 networkInstanceBridgeTableMacLimitHighUtilizationLowered

*Table 118: networkInstanceBridgeTableMacLimitHighUtilizationLowered properties*

| Property name | Value |
|---|---|
| Application name | bridgetable |
| Event name | networkInstanceBridgeTableMacLimitHighUtilizationLowered |


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| Property name | Value |
|---|---|
| Default severity | notice |
| Message format string | The number of MAC addresses in the bridge table of network-instance *network-instance* is now at *pct-threshold*% minus 5% of the allowed limit of *maximum-entries*. |
| Cause | This event is generated when the number of MAC addresses in the bridge table of the network-instance is at 5% minus the warning threshold percentage of the allowed limit, after having exceeded the maximum percentage threshold of the allowed limit. |
| Effect | None |
| Raising event | N/A |
| Clearing event | N/A |

## 10.21 networkInstanceBridgeTableMacLimitLowered

*Table 119: networkInstanceBridgeTableMacLimitLowered properties*

| Property name | Value |
|---|---|
| Application name | bridgetable |
| Event name | networkInstanceBridgeTableMacLimitLowered |
| Default severity | notice |
| Message format string | The number of MAC addresses in the bridge table of network-instance *network-instance* is now below the allowed limit of *maximum-entries*. |
| Cause | This event is generated when the number of MAC addresses in the bridge table of a network-instance goes below the allowed limit, after being above the allowed limit |
| Effect | new mac-addresses can now be added to the bridge table. |
| Raising event | N/A |
| Clearing event | N/A |


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## 10.22 networkInstanceBridgeTableMacLimitReached

*Table 120: networkInstanceBridgeTableMacLimitReached properties*

| Property name | Value |
|---|---|
| Application name | bridgetable |
| Event name | networkInstanceBridgeTableMacLimitReached |
| Default severity | warning |
| Message format string | The number of MAC addresses in the bridge table of network-instance *network-instance* is at the allowed limit of *maximum-entries*. |
| Cause | This event is generated when the number of MAC addresses in the bridge table of a network-instance is at the allowed limit. |
| Effect | new mac-addresses cannot be added in the bridge table. |
| Raising event | N/A |
| Clearing event | N/A |

## 10.23 networkInstanceBridgeTableProxyArpLimitHighUtilization

*Table 121: networkInstanceBridgeTableProxyArpLimitHighUtilization properties*

| Property name | Value |
|---|---|
| Application name | bridgetable |
| Event name | networkInstanceBridgeTableProxyArpLimitHighUtilization |
| Default severity | warning |
| Message format string | The number of proxy ARP entries in the bridge table of network-instance *network-instance* has reached *pct-threshold*% of the allowed limit of *maximum-entries*. |
| Cause | This event is generated when the number of proxy ARP entries in the bridge table of a network-instance reaches the warning threshold percentage of the allowed limit. |
| Effect | None |
| Raising event | N/A |
| Clearing event | N/A |


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## 10.24 networkInstanceBridgeTableProxyArpLimitHighUtilizationLowered

*Table 122: networkInstanceBridgeTableProxyArpLimitHighUtilizationLowered properties*

| Property name | Value |
|---|---|
| Application name | bridgetable |
| Event name | networkInstanceBridgeTableProxyArpLimitHighUtilizationLowered |
| Default severity | notice |
| Message format string | The number of proxy ARP entries in the bridge table of network-instance *network-instance* is now at *pct-threshold*% minus 5% of the allowed limit of *maximum-entries*. |
| Cause | This event is generated when the number of proxy ARP entriesin the bridge table of the network-instance is at 5% minus the warning threshold percentage of the allowed limit, after having exceeded the maximum percentage threshold of the allowed limit. |
| Effect | None |
| Raising event | N/A |
| Clearing event | N/A |

## 10.25 networkInstanceBridgeTableProxyArpNdDuplicateIpAddressDeleted

*Table 123: networkInstanceBridgeTableProxyArpNdDuplicateIpAddressDeleted properties*

| Property name | Value |
|---|---|
| Application name | bridgetable |
| Event name | networkInstanceBridgeTableProxyArpNdDuplicateIpAddressDeleted |
| Default severity | notice |
| Message format string | A duplicate proxy IP *ip-address* detected on *network-instance* is now deleted. |
| Cause | This event is generated when a duplicate proxy IP is deleted. |
| Effect | The duplicate proxy IP is now deleted. |
| Raising event | N/A |
| Clearing event | N/A |


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## 10.26 networkInstanceBridgeTableProxyArpNdDuplicateIpAddressDetected

*Table 124: networkInstanceBridgeTableProxyArpNdDuplicateIpAddressDetected properties*

| Property name | Value |
|---|---|
| Application name | bridgetable |
| Event name | networkInstanceBridgeTableProxyArpNdDuplicateIpAddressDetected |
| Default severity | notice |
| Message format string | A duplicate link-layer-address *new-mac-address* was detected for proxy IP *ip-address* link-layer-address *old-mac-address* on *network-instance*. |
| Cause | This event is generated when when duplicate detection criteria is met when a new link-layer-address overwrites the existing link-layer-address for the proxy IP on the network-instance. |
| Effect | A traffic disruption may occur if both systems are active |
| Raising event | N/A |
| Clearing event | N/A |

## 10.27 networkInstanceBridgeTableProxyNdLimitHighUtilization

*Table 125: networkInstanceBridgeTableProxyNdLimitHighUtilization properties*

| Property name | Value |
|---|---|
| Application name | bridgetable |
| Event name | networkInstanceBridgeTableProxyNdLimitHighUtilization |
| Default severity | warning |
| Message format string | The number of proxy ND entries in the bridge table of network-instance *network-instance* has reached *pct-threshold*% of the allowed limit of *maximum-entries*. |
| Cause | This event is generated when the number of proxy ND entries in the bridge table of a network-instance reaches the warning threshold percentage of the allowed limit. |
| Effect | None |
| Raising event | N/A |


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| Property name | Value |
|---|---|
| Clearing event | N/A |

## 10.28 networkInstanceBridgeTableProxyNdLimitHighUtilizationLowered

*Table 126: networkInstanceBridgeTableProxyNdLimitHighUtilizationLowered properties*

| Property name | Value |
|---|---|
| Application name | bridgetable |
| Event name | networkInstanceBridgeTableProxyNdLimitHighUtilizationLowered |
| Default severity | notice |
| Message format string | The number of proxy ND entries in the bridge table of network-instance *network-instance* is now at *pct-threshold*% minus 5% of the allowed limit of *maximum-entries*. |
| Cause | This event is generated when the number of proxy ND entriesin the bridge table of the network-instance is at 5% minus the warning threshold percentage of the allowed limit, after having exceeded the maximum percentage threshold of the allowed limit. |
| Effect | None |
| Raising event | N/A |
| Clearing event | N/A |

## 10.29 systemBridgeTableMacLimitHighUtilization

*Table 127: systemBridgeTableMacLimitHighUtilization properties*

| Property name | Value |
|---|---|
| Application name | bridgetable |
| Event name | systemBridgeTableMacLimitHighUtilization |
| Default severity | warning |
| Message format string | The number of MAC addresses in the bridge table of the system has reached *pct-threshold*% of the allowed limit of *maximum-entries*. |
| Cause | This event is generated when the number of MAC addresses in the bridge table of the system reaches the configured warning threshold percentage of the allowed limit. |


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| Property name | Value |
|---|---|
| Effect | None |
| Raising event | N/A |
| Clearing event | N/A |

## 10.30 systemBridgeTableMacLimitHighUtilizationLowered

*Table 128: systemBridgeTableMacLimitHighUtilizationLowered properties*

| Property name | Value |
|---|---|
| Application name | bridgetable |
| Event name | systemBridgeTableMacLimitHighUtilizationLowered |
| Default severity | notice |
| Message format string | The number of MAC addresses in the bridge table of the system is now at *pct-threshold*% minus 5% of the allowed limit of *maximum-entries*. |
| Cause | This event is generated when the number of MAC addresses in the bridge table of the system is at 5% minus the warning threshold percentage of the allowed limit, after having exceeded the maximum percentage threshold of the allowed limit. |
| Effect | None |
| Raising event | N/A |
| Clearing event | N/A |

## 10.31 systemBridgeTableMacLimitLowered

*Table 129: systemBridgeTableMacLimitLowered properties*

| Property name | Value |
|---|---|
| Application name | bridgetable |
| Event name | systemBridgeTableMacLimitLowered |
| Default severity | notice |
| Message format string | The number of MAC addresses in the bridge table of the system is now below the allowed limit of *maximum-entries*. |


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| Property name | Value |
|---|---|
| Cause | This event is generated when the number of MAC addresses in the bridge table of the system goes below the allowed limit, after being above the allowed limit |
| Effect | new mac-addresses can now be added to the bridge table. |
| Raising event | N/A |
| Clearing event | N/A |

## 10.32 systemBridgeTableMacLimitReached

*Table 130: systemBridgeTableMacLimitReached properties*

| Property name | Value |
|---|---|
| Application name | bridgetable |
| Event name | systemBridgeTableMacLimitReached |
| Default severity | warning |
| Message format string | The number of MAC addresses in the bridge table of the system is at the allowed limit of *maximum-entries*. |
| Cause | This event is generated when the number of MAC addresses in the bridge table of the system is at the allowed limit. |
| Effect | new mac-addresses cannot be added in any bridge table in the system. |
| Raising event | N/A |
| Clearing event | N/A |

## 10.33 systemBridgeTableProxyArpLimitHighUtilization

*Table 131: systemBridgeTableProxyArpLimitHighUtilization properties*

| Property name | Value |
|---|---|
| Application name | bridgetable |
| Event name | systemBridgeTableProxyArpLimitHighUtilization |
| Default severity | warning |


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| Property name | Value |
|---|---|
| Message format string | The number of proxy ARP entries in the bridge table of the system has reached *pct-threshold*% of the allowed limit of *maximum-entries*. |
| Cause | This event is generated when the number of proxy ARP entries in the bridge table the system reaches the warning threshold percentage of the allowed limit. |
| Effect | None |
| Raising event | N/A |
| Clearing event | N/A |

## 10.34 systemBridgeTableProxyArpLimitHighUtilizationLowered

*Table 132: systemBridgeTableProxyArpLimitHighUtilizationLowered properties*

| Property name | Value |
|---|---|
| Application name | bridgetable |
| Event name | systemBridgeTableProxyArpLimitHighUtilizationLowered |
| Default severity | notice |
| Message format string | The number of proxy ARP entries in the bridge table of the system is now at *pct-threshold*% minus 5% of the allowed limit of *maximum-entries*. |
| Cause | This event is generated when the number of proxy ARP entriesin the bridge table of the system is at 5% minus the warning threshold percentage of the allowed limit, after having exceeded the maximum percentage threshold of the allowed limit. |
| Effect | None |
| Raising event | N/A |
| Clearing event | N/A |

## 10.35 systemBridgeTableProxyNdLimitHighUtilization

*Table 133: systemBridgeTableProxyNdLimitHighUtilization properties*

| Property name | Value |
|---|---|
| Application name | bridgetable |


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| Property name | Value |
|---|---|
| Event name | systemBridgeTableProxyNdLimitHighUtilization |
| Default severity | warning |
| Message format string | The number of proxy ND entries in the bridge table of the system has reached *pct-threshold*% of the allowed limit of *maximum-entries*. |
| Cause | This event is generated when the number of proxy ND entries in the bridge table the system reaches the warning threshold percentage of the allowed limit. |
| Effect | None |
| Raising event | N/A |
| Clearing event | N/A |

## 10.36 systemBridgeTableProxyNdLimitHighUtilizationLowered

*Table 134: systemBridgeTableProxyNdLimitHighUtilizationLowered properties*

| Property name | Value |
|---|---|
| Application name | bridgetable |
| Event name | systemBridgeTableProxyNdLimitHighUtilizationLowered |
| Default severity | notice |
| Message format string | The number of proxy ND entries in the bridge table of the system is now at *pct-threshold*% minus 5% of the allowed limit of *maximum-entries*. |
| Cause | This event is generated when the number of proxy ND entries in the bridge table of the system is at 5% minus the warning threshold percentage of the allowed limit, after having exceeded the maximum percentage threshold of the allowed limit. |
| Effect | None |
| Raising event | N/A |
| Clearing event | N/A |


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## 10.37 systemMulticastIdLimitHighUtilization

*Table 135: systemMulticastIdLimitHighUtilization properties*

| Property name | Value |
|---|---|
| Application name | bridgetable |
| Event name | systemMulticastIdLimitHighUtilization |
| Default severity | warning |
| Message format string | The multicast id usage of the system has reached *pct-threshold*% of the allowed limit of *maximum-entries*. |
| Cause | This event is generated when the multicast id usage of the system reaches the configured warning threshold percentage of the allowed limit. |
| Effect | None |
| Raising event | N/A |
| Clearing event | N/A |

## 10.38 systemMulticastIdLimitHighUtilizationLowered

*Table 136: systemMulticastIdLimitHighUtilizationLowered properties*

| Property name | Value |
|---|---|
| Application name | bridgetable |
| Event name | systemMulticastIdLimitHighUtilizationLowered |
| Default severity | notice |
| Message format string | The multicast id usage of the system is now at *pct-threshold*% minus 5% of the allowed limit of *maximum-entries*. |
| Cause | This event is generated when the multicast id usage of the system is at 5% minus the warning threshold percentage of the allowed limit, after having exceeded the maximum percentage threshold of the allowed limit. |
| Effect | None |
| Raising event | N/A |
| Clearing event | N/A |


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## 10.39 vxlanInterfaceBridgeTableMulticastDestinationsLimitHighUtilization

*Table 137: vxlanInterfaceBridgeTableMulticastDestinationsLimitHighUtilization properties*

| Property name | Value |
|---|---|
| Application name | bridgetable |
| Event name | vxlanInterfaceBridgeTableMulticastDestinationsLimitHighUtilization |
| Default severity | warning |
| Message format string | The number of Vxlan Multicast Destinations in the bridge table for the vxlan-interface *tunnel-interface*.*vxlan-interface* has reached *pct-threshold*% of the allowed limit of *maximum-entries*. |
| Cause | This event is generated when the number of Vxlan Multicast Destinations in the vxlan-interface reaches the warning threshold percentage of the allowed limit. |
| Effect | None |
| Raising event | N/A |
| Clearing event | N/A |

## 10.40 vxlanInterfaceBridgeTableMulticastDestinationsLimitHighUtilizationLowered

*Table 138: vxlanInterfaceBridgeTableMulticastDestinationsLimitHighUtilizationLowered properties*

| Property name | Value |
|---|---|
| Application name | bridgetable |
| Event name | vxlanInterfaceBridgeTableMulticastDestinationsLimitHighUtilization Lowered |
| Default severity | notice |
| Message format string | The number of Vxlan Multicast Destinations in the bridge table for the vxlan-interface *tunnel-interface*. *vxlan-interface* is now below a *pct-threshold*% minus 5% of the allowed limit of *maximum-entries*. |
| Cause | This event is generated when the number of Vxlan Multicast Destinations in the vxlan-interface is 5% below the warning threshold percentage of the allowed limit, after having exceeded the maximum percentage threshold of the allowed limit. |
| Effect | None |


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| Property name | Value |
|---|---|
| Raising event | N/A |
| Clearing event | N/A |

## 10.41 vxlanInterfaceBridgeTableMulticastDestinationsLimitLowered

*Table 139: vxlanInterfaceBridgeTableMulticastDestinationsLimitLowered properties*

| Property name | Value |
|---|---|
| Application name | bridgetable |
| Event name | vxlanInterfaceBridgeTableMulticastDestinationsLimitLowered |
| Default severity | notice |
| Message format string | The number of Vxlan Multicast Destinations in the bridge table for the vxlan-interface *tunnel-interface*.*vxlan-interface* is now below the allowed limit of *maximum-entries*. |
| Cause | This event is generated when the number of Vxlan Multicast Destinations in a vxlan-interface goes below the allowed limit, after being above the allowed limit |
| Effect | New Vxlan Multicast Destinations can be added to the vxlan-interface. |
| Raising event | N/A |
| Clearing event | N/A |

## 10.42 vxlanInterfaceBridgeTableMulticastDestinationsLimitReached

*Table 140: vxlanInterfaceBridgeTableMulticastDestinationsLimitReached properties*

| Property name | Value |
|---|---|
| Application name | bridgetable |
| Event name | vxlanInterfaceBridgeTableMulticastDestinationsLimitReached |
| Default severity | warning |
| Message format string | The number of Vxlan Multicast Destinations in the bridge table for the vxlan-interface *tunnel-interface*. *vxlan-interface* is at the allowed limit of *maximum-entries*. |


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| Property name | Value |
|---|---|
| Cause | This event is generated when the number of Vxlan Multicast Destinations in a vxlan-interface is at the allowed limit. |
| Effect | New Vxlan Multicast Destinations cannot be added to the vxlan-interface. |
| Raising event | N/A |
| Clearing event | N/A |


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# 11 chassis

## 11.1 alarmInput1StateCleared

*Table 141: alarmInput1StateCleared properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | alarmInput1StateCleared |
| Default severity | alert |
| Message format string | Alarm input *alarm_input_description* has changed status to *alarm_clear_message* |
| Cause | The alarmInput1StateCleared event is logged when the status of the alarm 1 input on pin 1 changes. |
| Effect | An event has occurred in the external equipment connected to the alarm input. |
| Raising event | alarmInput1StateRaised |
| Clearing event | N/A |

## 11.2 alarmInput1StateRaised

*Table 142: alarmInput1StateRaised properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | alarmInput1StateRaised |
| Default severity | alert |
| Message format string | Alarm input *alarm_input_description* has changed status to *alarm_trigger_message* |
| Cause | The alarmInput1StateRaised event is raised when the status of the alarm 1 input on pin 1 changes. |


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| Property name | Value |
|---|---|
| Effect | An event has occurred in the external equipment connected to the alarm input. |
| Raising event | N/A |
| Clearing event | alarmInput1StateCleared |

## 11.3 alarmInput2StateCleared

*Table 143: alarmInput2StateCleared properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | alarmInput2StateCleared |
| Default severity | alert |
| Message format string | Alarm input *alarm_input_description* has changed status to *alarm_clear_message* |
| Cause | The alarmInput2StateCleared event is logged when the status of the alarm 2 input on pin 2 changes. |
| Effect | An event has occurred in the external equipment connected to the alarm input. |
| Raising event | alarmInput2StateRaised |
| Clearing event | N/A |

## 11.4 alarmInput2StateRaised

*Table 144: alarmInput2StateRaised properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | alarmInput2StateRaised |
| Default severity | alert |
| Message format string | Alarm input *alarm_input_description* has changed status to *alarm_trigger_message* |


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| Property name | Value |
|---|---|
| Cause | The alarmInput2StateRaised event is raised when the status of the alarm 2 input on pin 2 changes. |
| Effect | An event has occurred in the external equipment connected to the alarm input. |
| Raising event | N/A |
| Clearing event | alarmInput2StateCleared |

## 11.5 alarmInput3StateCleared

*Table 145: alarmInput3StateCleared properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | alarmInput3StateCleared |
| Default severity | alert |
| Message format string | Alarm input *alarm_input_description* has changed status to *alarm_clear_message* |
| Cause | The alarmInput3StateCleared event is logged when the status of the alarm 3 input on pin 4 changes. |
| Effect | An event has occurred in the external equipment connected to the alarm input. |
| Raising event | alarmInput3StateRaised |
| Clearing event | N/A |

## 11.6 alarmInput3StateRaised

*Table 146: alarmInput3StateRaised properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | alarmInput3StateRaised |
| Default severity | alert |


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| Property name | Value |
|---|---|
| Message format string | Alarm input *alarm_input_description* has changed status to *alarm_trigger_message* |
| Cause | The alarmInput3StateRaised event is raised when the status of the alarm 3 input on pin 4 changes. |
| Effect | An event has occurred in the external equipment connected to the alarm input. |
| Raising event | N/A |
| Clearing event | alarmInput3StateCleared |

## 11.7 alarmInput4StateCleared

*Table 147: alarmInput4StateCleared properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | alarmInput4StateCleared |
| Default severity | alert |
| Message format string | Alarm input *alarm_input_description* has changed status to *alarm_clear_message* |
| Cause | The alarmInput4StateCleared event is logged when the status of the alarm 4 input on pin 5 changes. |
| Effect | An event has occurred in the external equipment connected to the alarm input. |
| Raising event | alarmInput4StateRaised |
| Clearing event | N/A |

## 11.8 alarmInput4StateRaised

*Table 148: alarmInput4StateRaised properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | alarmInput4StateRaised |


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| Property name | Value |
|---|---|
| Default severity | alert |
| Message format string | Alarm input *alarm_input_description* has changed status to *alarm_trigger_message* |
| Cause | The alarmInput4StateRaised event is raised when the status of the alarm 4 input on pin 5 changes. |
| Effect | An event has occurred in the external equipment connected to the alarm input. |
| Raising event | N/A |
| Clearing event | alarmInput4StateCleared |

## 11.9 interfaceStormControlRateReached

*Table 149: interfaceStormControlRateReached properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | interfaceStormControlRateReached |
| Default severity | warning |
| Message format string | The ingress traffic rate in *interface-name* has exceeded at least one of the configured storm-control rates (broadcast, multicast or unknown-unicast rates). |
| Cause | This event is generated when the traffic exceeds any of the configured storm control rates. |
| Effect | broadcast, multicast or unknown-unicast frames are discarded at this rate |
| Raising event | N/A |
| Clearing event | N/A |


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## 11.10 olsTransceiverAmplifierHighGainAlarm

*Table 150: olsTransceiverAmplifierHighGainAlarm properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | olsTransceiverAmplifierHighGainAlarm |
| Default severity | error |
| Message format string | The gain of the *amplifier_name* of the optical line system in interface *interface_name* has increased to *high_threshold* dBm or above |
| Cause | The gain of the amplifier in the module has increased |
| Effect | High gain may affect module performance |
| Raising event | N/A |
| Clearing event | N/A |

## 11.11 olsTransceiverAmplifierHighGainAlarmClear

*Table 151: olsTransceiverAmplifierHighGainAlarmClear properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | olsTransceiverAmplifierHighGainAlarmClear |
| Default severity | informational |
| Message format string | The gain of the *amplifier_name* of the optical line system in interface *interface_name* decreased below *high_threshold* dBm |
| Cause | The gain of the amplifier in the module has decreased |
| Effect | High gain may affect module performance |
| Raising event | N/A |
| Clearing event | N/A |


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## 11.12 olsTransceiverAmplifierHighGainWarning

*Table 152: olsTransceiverAmplifierHighGainWarning properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | olsTransceiverAmplifierHighGainWarning |
| Default severity | warning |
| Message format string | The gain of the *amplifier_name* of the optical line system in interface *interface_name* has increased to *high_threshold* dBm or above |
| Cause | The gain of the amplifier in the module has increased |
| Effect | High gain may affect module performance |
| Raising event | N/A |
| Clearing event | N/A |

## 11.13 olsTransceiverAmplifierHighGainWarningClear

*Table 153: olsTransceiverAmplifierHighGainWarningClear properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | olsTransceiverAmplifierHighGainWarningClear |
| Default severity | informational |
| Message format string | The gain of the *amplifier_name* of the optical line system in interface *interface_name* decreased below *high_threshold* dBm |
| Cause | The gain of the amplifier in the module has decreased |
| Effect | High gain may affect module performance |
| Raising event | N/A |
| Clearing event | N/A |


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## 11.14 olsTransceiverAmplifierHighInputPowerAlarm

*Table 154: olsTransceiverAmplifierHighInputPowerAlarm properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | olsTransceiverAmplifierHighInputPowerAlarm |
| Default severity | error |
| Message format string | The input power of the *amplifier_name* of the optical line system in interface *interface_name* has increased to *high_threshold* dBm or above |
| Cause | The input power of the amplifier in the module has increased |
| Effect | High input power may affect module performance |
| Raising event | N/A |
| Clearing event | N/A |

## 11.15 olsTransceiverAmplifierHighInputPowerAlarmClear

*Table 155: olsTransceiverAmplifierHighInputPowerAlarmClear properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | olsTransceiverAmplifierHighInputPowerAlarmClear |
| Default severity | informational |
| Message format string | The input power of the *amplifier_name* of the optical line system in interface *interface_name* decreased below *high_threshold* dBm |
| Cause | The input power of the amplifier in the module has decreased |
| Effect | High input power may affect module performance |
| Raising event | N/A |
| Clearing event | N/A |


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## 11.16 olsTransceiverAmplifierHighInputPowerWarning

*Table 156: olsTransceiverAmplifierHighInputPowerWarning properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | olsTransceiverAmplifierHighInputPowerWarning |
| Default severity | warning |
| Message format string | The input power of the *amplifier_name* of the optical line system in interface *interface_name* has increased to *high_threshold* dBm or above |
| Cause | The input power of the amplifier in the module has increased |
| Effect | High input power may affect module performance |
| Raising event | N/A |
| Clearing event | N/A |

## 11.17 olsTransceiverAmplifierHighInputPowerWarningClear

*Table 157: olsTransceiverAmplifierHighInputPowerWarningClear properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | olsTransceiverAmplifierHighInputPowerWarningClear |
| Default severity | informational |
| Message format string | The input power of the *amplifier_name* of the optical line system in interface *interface_name* decreased below *high_threshold* dBm |
| Cause | The input power of the amplifier in the module has decreased |
| Effect | High input power may affect module performance |
| Raising event | N/A |
| Clearing event | N/A |


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## 11.18 olsTransceiverAmplifierHighOutputPowerAlarm

*Table 158: olsTransceiverAmplifierHighOutputPowerAlarm properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | olsTransceiverAmplifierHighOutputPowerAlarm |
| Default severity | error |
| Message format string | The output power of the *amplifier_name* of the optical line system in interface *interface_name* has increased to *high_threshold* dBm or above |
| Cause | The output power of the amplifier in the module has increased |
| Effect | High output power may affect module performance |
| Raising event | N/A |
| Clearing event | N/A |

## 11.19 olsTransceiverAmplifierHighOutputPowerAlarmClear

*Table 159: olsTransceiverAmplifierHighOutputPowerAlarmClear properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | olsTransceiverAmplifierHighOutputPowerAlarmClear |
| Default severity | informational |
| Message format string | The output power of the *amplifier_name* of the optical line system in interface *interface_name* decreased below *high_threshold* dBm |
| Cause | The output power of the amplifier in the module has decreased |
| Effect | High output power may affect module performance |
| Raising event | N/A |
| Clearing event | N/A |


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## 11.20 olsTransceiverAmplifierHighOutputPowerWarning

*Table 160: olsTransceiverAmplifierHighOutputPowerWarning properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | olsTransceiverAmplifierHighOutputPowerWarning |
| Default severity | warning |
| Message format string | The output power of the *amplifier_name* of the optical line system in interface *interface_name* has increased to *high_threshold* dBm or above |
| Cause | The output power of the amplifier in the module has increased |
| Effect | High output power may affect module performance |
| Raising event | N/A |
| Clearing event | N/A |

## 11.21 olsTransceiverAmplifierHighOutputPowerWarningClear

*Table 161: olsTransceiverAmplifierHighOutputPowerWarningClear properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | olsTransceiverAmplifierHighOutputPowerWarningClear |
| Default severity | informational |
| Message format string | The output power of the *amplifier_name* of the optical line system in interface *interface_name* decreased below *high_threshold* dBm |
| Cause | The output power of the amplifier in the module has decreased |
| Effect | High output power may affect module performance |
| Raising event | N/A |
| Clearing event | N/A |


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## 11.22 olsTransceiverAmplifierHighTempAlarm

*Table 162: olsTransceiverAmplifierHighTempAlarm properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | olsTransceiverAmplifierHighTempAlarm |
| Default severity | error |
| Message format string | The temperature of the *amplifier_name* of the optical line system in interface *interface_name* has increased to *high_threshold* degrees C or above |
| Cause | The temperature of the amplifier in the module has increased |
| Effect | High temperatures may affect module performance |
| Raising event | N/A |
| Clearing event | N/A |

## 11.23 olsTransceiverAmplifierHighTempAlarmClear

*Table 163: olsTransceiverAmplifierHighTempAlarmClear properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | olsTransceiverAmplifierHighTempAlarmClear |
| Default severity | informational |
| Message format string | The temperature of the *amplifier_name* of the optical line system in interface *interface_name* decreased below *high_threshold* degrees C |
| Cause | The temperature of the amplifier in the module has decreased |
| Effect | High temperatures may affect module performance |
| Raising event | N/A |
| Clearing event | N/A |


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## 11.24 olsTransceiverAmplifierHighTempWarning

*Table 164: olsTransceiverAmplifierHighTempWarning properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | olsTransceiverAmplifierHighTempWarning |
| Default severity | warning |
| Message format string | The temperature of the *amplifier_name* of the optical line system in interface *interface_name* has increased to *high_threshold* degrees C or above |
| Cause | The temperature of the amplifier in the module has increased |
| Effect | High temperatures may affect module performance |
| Raising event | N/A |
| Clearing event | N/A |

## 11.25 olsTransceiverAmplifierHighTempWarningClear

*Table 165: olsTransceiverAmplifierHighTempWarningClear properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | olsTransceiverAmplifierHighTempWarningClear |
| Default severity | informational |
| Message format string | The temperature of the *amplifier_name* of the optical line system in interface *interface_name* decreased below *high_threshold* degrees C |
| Cause | The temperature of the amplifier in the module has decreased |
| Effect | High temperatures may affect module performance |
| Raising event | N/A |
| Clearing event | N/A |


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## 11.26 olsTransceiverAmplifierLowGainAlarm

*Table 166: olsTransceiverAmplifierLowGainAlarm properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | olsTransceiverAmplifierLowGainAlarm |
| Default severity | error |
| Message format string | The gain of the *amplifier_name* of the optical line system in interface *interface_name* has decreased to *low_threshold* dBm or below |
| Cause | The gain of the amplifier in the module has decreased |
| Effect | Low gain may affect module performance |
| Raising event | N/A |
| Clearing event | N/A |

## 11.27 olsTransceiverAmplifierLowGainAlarmClear

*Table 167: olsTransceiverAmplifierLowGainAlarmClear properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | olsTransceiverAmplifierLowGainAlarmClear |
| Default severity | informational |
| Message format string | The gain of the *amplifier_name* of the optical line system in interface *interface_name* has increased to *low_threshold* dBm or above |
| Cause | The gain of the amplifier in the module has increased |
| Effect | Low gain may affect module performance |
| Raising event | N/A |
| Clearing event | N/A |


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## 11.28 olsTransceiverAmplifierLowGainWarning

*Table 168: olsTransceiverAmplifierLowGainWarning properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | olsTransceiverAmplifierLowGainWarning |
| Default severity | warning |
| Message format string | The gain of the *amplifier_name* of the optical line system in interface *interface_name* has decreased to *low_threshold* dBm or below |
| Cause | The gain of the amplifier in the module has decreased |
| Effect | Low gain may affect module performance |
| Raising event | N/A |
| Clearing event | N/A |

## 11.29 olsTransceiverAmplifierLowGainWarningClear

*Table 169: olsTransceiverAmplifierLowGainWarningClear properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | olsTransceiverAmplifierLowGainWarningClear |
| Default severity | informational |
| Message format string | The gain of the *amplifier_name* of the optical line system in interface *interface_name* has increased to *low_threshold* dBm or above |
| Cause | The gain of the amplifier in the module has increased |
| Effect | Low gain may affect module performance |
| Raising event | N/A |
| Clearing event | N/A |


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## 11.30 olsTransceiverAmplifierLowInputPowerAlarm

*Table 170: olsTransceiverAmplifierLowInputPowerAlarm properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | olsTransceiverAmplifierLowInputPowerAlarm |
| Default severity | error |
| Message format string | The input power of the *amplifier_name* of the optical line system in interface *interface_name* has decreased to *low_threshold* dBm or below |
| Cause | The input power of the amplifier in the module has decreased |
| Effect | Low input power may affect module performance |
| Raising event | N/A |
| Clearing event | N/A |

## 11.31 olsTransceiverAmplifierLowInputPowerAlarmClear

*Table 171: olsTransceiverAmplifierLowInputPowerAlarmClear properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | olsTransceiverAmplifierLowInputPowerAlarmClear |
| Default severity | informational |
| Message format string | The input power of the *amplifier_name* of the optical line system in interface *interface_name* has increased to *low_threshold* dBm or above |
| Cause | The input power of the amplifier in the module has increased |
| Effect | Low input power may affect module performance |
| Raising event | N/A |
| Clearing event | N/A |


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## 11.32 olsTransceiverAmplifierLowInputPowerWarning

*Table 172: olsTransceiverAmplifierLowInputPowerWarning properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | olsTransceiverAmplifierLowInputPowerWarning |
| Default severity | warning |
| Message format string | The input power of the *amplifier_name* of the optical line system in interface *interface_name* has decreased to *low_threshold* dBm or below |
| Cause | The input power of the amplifier in the module has decreased |
| Effect | Low input power may affect module performance |
| Raising event | N/A |
| Clearing event | N/A |

## 11.33 olsTransceiverAmplifierLowInputPowerWarningClear

*Table 173: olsTransceiverAmplifierLowInputPowerWarningClear properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | olsTransceiverAmplifierLowInputPowerWarningClear |
| Default severity | informational |
| Message format string | The input power of the *amplifier_name* of the optical line system in interface *interface_name* has increased to *low_threshold* dBm or above |
| Cause | The input power of the amplifier in the module has increased |
| Effect | Low input power may affect module performance |
| Raising event | N/A |
| Clearing event | N/A |


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## 11.34 olsTransceiverAmplifierLowOutputPowerAlarm

*Table 174: olsTransceiverAmplifierLowOutputPowerAlarm properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | olsTransceiverAmplifierLowOutputPowerAlarm |
| Default severity | error |
| Message format string | The output power of the *amplifier_name* of the optical line system in interface *interface_name* has decreased to *low_threshold* dBm or below |
| Cause | The output power of the amplifier in the module has decreased |
| Effect | Low output power may affect module performance |
| Raising event | N/A |
| Clearing event | N/A |

## 11.35 olsTransceiverAmplifierLowOutputPowerAlarmClear

*Table 175: olsTransceiverAmplifierLowOutputPowerAlarmClear properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | olsTransceiverAmplifierLowOutputPowerAlarmClear |
| Default severity | informational |
| Message format string | The output power of the *amplifier_name* of the optical line system in interface *interface_name* has increased to *low_threshold* dBm or above |
| Cause | The output power of the amplifier in the module has increased |
| Effect | Low output power may affect module performance |
| Raising event | N/A |
| Clearing event | N/A |


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## 11.36 olsTransceiverAmplifierLowOutputPowerWarning

*Table 176: olsTransceiverAmplifierLowOutputPowerWarning properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | olsTransceiverAmplifierLowOutputPowerWarning |
| Default severity | warning |
| Message format string | The output power of the *amplifier_name* of the optical line system in interface *interface_name* has decreased to *low_threshold* dBm or below |
| Cause | The output power of the amplifier in the module has decreased |
| Effect | Low output power may affect module performance |
| Raising event | N/A |
| Clearing event | N/A |

## 11.37 olsTransceiverAmplifierLowOutputPowerWarningClear

*Table 177: olsTransceiverAmplifierLowOutputPowerWarningClear properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | olsTransceiverAmplifierLowOutputPowerWarningClear |
| Default severity | informational |
| Message format string | The output power of the *amplifier_name* of the optical line system in interface *interface_name* has increased to *low_threshold* dBm or above |
| Cause | The output power of the amplifier in the module has increased |
| Effect | Low output power may affect module performance |
| Raising event | N/A |
| Clearing event | N/A |


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## 11.38 olsTransceiverAmplifierLowTempAlarm

*Table 178: olsTransceiverAmplifierLowTempAlarm properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | olsTransceiverAmplifierLowTempAlarm |
| Default severity | error |
| Message format string | The temperature of the *amplifier_name* of the optical line system in interface *interface_name* has decreased to *low_threshold* degrees C or below |
| Cause | The temperature of the amplifier in the module has decreased |
| Effect | Low temperatures may affect module performance |
| Raising event | N/A |
| Clearing event | N/A |

## 11.39 olsTransceiverAmplifierLowTempAlarmClear

*Table 179: olsTransceiverAmplifierLowTempAlarmClear properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | olsTransceiverAmplifierLowTempAlarmClear |
| Default severity | informational |
| Message format string | The temperature of the *amplifier_name* of the optical line system in interface *interface_name* has increased to *low_threshold* degrees C or above |
| Cause | The temperature of the amplifier in the module has increased |
| Effect | Low temperatures may affect module performance |
| Raising event | N/A |
| Clearing event | N/A |


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## 11.40 olsTransceiverAmplifierLowTempWarning

*Table 180: olsTransceiverAmplifierLowTempWarning properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | olsTransceiverAmplifierLowTempWarning |
| Default severity | warning |
| Message format string | The temperature of the *amplifier_name* of the optical line system in interface *interface_name* has decreased to *low_threshold* degrees C or below |
| Cause | The temperature of the amplifier in the module has decreased |
| Effect | Low temperatures may affect module performance |
| Raising event | N/A |
| Clearing event | N/A |

## 11.41 olsTransceiverAmplifierLowTempWarningClear

*Table 181: olsTransceiverAmplifierLowTempWarningClear properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | olsTransceiverAmplifierLowTempWarningClear |
| Default severity | informational |
| Message format string | The temperature of the *amplifier_name* of the optical line system in interface *interface_name* has increased to *low_threshold* degrees C or above |
| Cause | The temperature of the amplifier in the module has increased |
| Effect | Low temperatures may affect module performance |
| Raising event | N/A |
| Clearing event | N/A |


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## 11.42 platformDatapathResourceHighUtilization

*Table 182: platformDatapathResourceHighUtilization properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | platformDatapathResourceHighUtilization |
| Default severity | warning |
| Message format string | The datapath resource called *resource-name* has reached *threshold*% or more utilization on linecard *linecard*, forwarding complex *forwarding-complex* |
| Cause | This event is generated when the utilization of a datapath resource has increased to a level that may warrant concern if further resources are consumed |
| Effect | None |
| Raising event | N/A |
| Clearing event | N/A |

## 11.43 platformDatapathResourceHighUtilizationLowered

*Table 183: platformDatapathResourceHighUtilizationLowered properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | platformDatapathResourceHighUtilizationLowered |
| Default severity | notice |
| Message format string | The datapath resource called *resource-name* has decreased back to *threshold*% or less utilization on linecard *linecard*, forwarding complex *forwarding-complex* |
| Cause | This event is generated when the utilization of a datapath resource has decreased to a level that may no longer warrant concern |
| Effect | None |
| Raising event | N/A |
| Clearing event | N/A |


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## 11.44 platformDatapathResourceLimitCleared

*Table 184: platformDatapathResourceLimitCleared properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | platformDatapathResourceLimitCleared |
| Default severity | notice |
| Message format string | The datapath resource called *resource-name* has decreased from 100% utilization back to 95% or less utilization on linecard *linecard*, forwarding complex *forwarding-complex* |
| Cause | This event is generated when the utilization of a datapath resource has decreased to a level such that resource exhaustion is no longer imminent |
| Effect | None |
| Raising event | N/A |
| Clearing event | N/A |

## 11.45 platformDatapathResourceLimitReached

*Table 185: platformDatapathResourceLimitReached properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | platformDatapathResourceLimitReached |
| Default severity | warning |
| Message format string | The datapath resource called *resource-name* has reached 100% utilization on linecard *linecard*, forwarding complex *forwarding-complex* |
| Cause | This event is generated when the utilization of a datapath resource has exhausted the resource |
| Effect | None |
| Raising event | N/A |
| Clearing event | N/A |


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## 11.46 platformMtuHighUtilization

*Table 186: platformMtuHighUtilization properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | platformMtuHighUtilization |
| Default severity | warning |
| Message format string | The MTU resource called *resource-name* has reached *threshold*% or more utilization on linecard *linecard*, forwarding complex *forwarding-complex*. Only *free-entries* entries are remaining. |
| Cause | This event is generated when the utilization of an MTU resource has increased to a level that may warrant concern if further resources are consumed |
| Effect | None |
| Raising event | N/A |
| Clearing event | N/A |

## 11.47 platformMtuHighUtilizationLowered

*Table 187: platformMtuHighUtilizationLowered properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | platformMtuHighUtilizationLowered |
| Default severity | notice |
| Message format string | The MTU resource called *resource-name* has decreased back to *threshold*% or less utilization on linecard *linecard*, forwarding complex *forwarding-complex*. |
| Cause | This event is generated when the utilization of an MTU resource has decreased to a level that may no longer warrant concern |
| Effect | None |
| Raising event | N/A |
| Clearing event | N/A |


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## 11.48 platformPipelineResourceHighUtilization

*Table 188: platformPipelineResourceHighUtilization properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | platformPipelineResourceHighUtilization |
| Default severity | warning |
| Message format string | The pipeline resource called *resource-name* has reached *threshold*% or more utilization on linecard *linecard*, forwarding complex *forwarding-complex*, pipeline *pipeline* |
| Cause | This event is generated when the utilization of a pipeline resource has increased to a level that may warrant concern if futher resources are consumed |
| Effect | None |
| Raising event | N/A |
| Clearing event | N/A |

## 11.49 platformPipelineResourceHighUtilizationLowered

*Table 189: platformPipelineResourceHighUtilizationLowered properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | platformPipelineResourceHighUtilizationLowered |
| Default severity | notice |
| Message format string | The pipeline resource called *resource-name* has decreased back to *threshold*% or less utilization on linecard *linecard*, forwarding complex *forwarding-complex*, pipeline *pipeline* |
| Cause | This event is generated when the utilization of a pipeline resource has decreased to a level that may no longer warrant concern |
| Effect | None |
| Raising event | N/A |
| Clearing event | N/A |


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## 11.50 platformPipelineResourceLimitCleared

*Table 190: platformPipelineResourceLimitCleared properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | platformPipelineResourceLimitCleared |
| Default severity | notice |
| Message format string | The pipeline resource called *resource-name* has decreased from 100% utilization back to 95% or less utilization on linecard *linecard*, forwarding complex *forwarding-complex*, *pipeline* |
| Cause | This event is generated when the utilization of a pipeline resource has decreased to a level such that resource exhaustion is no longer imminent |
| Effect | None |
| Raising event | N/A |
| Clearing event | N/A |

## 11.51 platformPipelineResourceLimitReached

*Table 191: platformPipelineResourceLimitReached properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | platformPipelineResourceLimitReached |
| Default severity | warning |
| Message format string | The pipeline resource called *resource-name* has reached 100% utilization on linecard *linecard*, forwarding complex *forwarding-complex*, *pipeline* |
| Cause | This event is generated when the utilization of a pipeline resource has exhausted the resource |
| Effect | None |
| Raising event | N/A |
| Clearing event | N/A |


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## 11.52 portDown

*Table 192: portDown properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | portDown |
| Default severity | warning |
| Message format string | Interface *interface_name* is now down for reason: *oper_down_reason* |
| Cause | The interface has transitioned from the up state to the down state |
| Effect | The interface is now down |
| Raising event | N/A |
| Clearing event | portUp |

## 11.53 portEtherCrcMonAlarmClear

*Table 193: portEtherCrcMonAlarmClear properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | portEtherCrcMonAlarmClear |
| Default severity | warning |
| Message format string | Interface *interface-name* reported CRC frame errors have dropped below configured *threshold-name* threshold *multiplier**10e-*exponent* |
| Cause | This event is generated when an Ethernet port CRC monitoring alarm condition is cleared or the monitoring is disabled. |
| Effect | None |
| Raising event | N/A |
| Clearing event | N/A |


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## 11.54 portEtherCrcMonAlarmSet

*Table 194: portEtherCrcMonAlarmSet properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | portEtherCrcMonAlarmSet |
| Default severity | warning |
| Message format string | Interface *interface-name* reported CRC frame errors in excess of the configured *threshold-name* threshold *multiplier**10e-*exponent* |
| Cause | This event is generated when an Ethernet port CRC frame monitoring alarm condition is detected. It is generated only when CRC monitoring is enabled on the port |
| Effect | On a signal failure (SF) threshold being exceeded, the port is taken out of service until the CRC alarm condition is cleared |
| Raising event | N/A |
| Clearing event | N/A |

## 11.55 portEtherSymMonAlarmClear

*Table 195: portEtherSymMonAlarmClear properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | portEtherSymMonAlarmClear |
| Default severity | warning |
| Message format string | Interface *interface-name* reported symbol errors have dropped below configured *threshold-name* threshold *multiplier**10e-*exponent* |
| Cause | This event is generated when an Ethernet port symbol monitoring alarm condition is cleared or the monitoring is disabled. |
| Effect | None |
| Raising event | N/A |
| Clearing event | N/A |


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## 11.56 portEtherSymMonAlarmSet

*Table 196: portEtherSymMonAlarmSet properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | portEtherSymMonAlarmSet |
| Default severity | warning |
| Message format string | Interface *interface-name* reported symbol errors in excess of the configured *threshold-name* threshold *multiplier**10e-*exponent* |
| Cause | This event is generated when an Ethernet port symbol monitoring alarm condition is detected. It is generated only when symbol monitoring is enabled on the port |
| Effect | On a signal failure (SF) threshold being exceeded, the port is taken out of service until the symbol alarm condition is cleared |
| Raising event | N/A |
| Clearing event | N/A |

## 11.57 portUp

*Table 197: portUp properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | portUp |
| Default severity | notice |
| Message format string | Interface *interface_name* is now up |
| Cause | The interface has transitioned from the down state to the up state |
| Effect | The interface is now up |
| Raising event | portDown |
| Clearing event | N/A |


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## 11.58 secureBootDisabled

*Table 198: secureBootDisabled properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | secureBootDisabled |
| Default severity | critical |
| Message format string | Control module *control* booted with Secure Boot Disabled |
| Cause | The control module booted with Secure Boot disabled |
| Effect | Boot software is not subject to signature verification |
| Raising event | N/A |
| Clearing event | secureBootEnabled |

## 11.59 secureBootEnabled

*Table 199: secureBootEnabled properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | secureBootEnabled |
| Default severity | notice |
| Message format string | Control module *control* booted with Secure Boot Enabled |
| Cause | The control module booted with Secure Boot Enabled |
| Effect | Boot software is subject to signature verification |
| Raising event | secureBootDisabled |
| Clearing event | N/A |


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## 11.60 secureBootModDatasetInconsistent

*Table 200: secureBootModDatasetInconsistent properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | secureBootModDatasetInconsistent |
| Default severity | warning |
| Message format string | Control module *control* secure boot variable modification dataset is not consistent |
| Cause | The control module booted with Secure Boot enabled, but the secure boot variable modification dataset is not consistent with the secure boot variables |
| Effect | Boot software was/is subject to complete signature verification, but no update to the variables is possible |
| Raising event | N/A |
| Clearing event | N/A |

## 11.61 secureBootModDatasetNotPresent

*Table 201: secureBootModDatasetNotPresent properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | secureBootModDatasetNotPresent |
| Default severity | warning |
| Message format string | Control module *control* secure boot variable modification dataset in not present |
| Cause | The control module booted with Secure Boot enabled, but the secure boot variable modification dataset is not present |
| Effect | Boot software was/is subject to complete signature verification, but no update to the variables is possible |
| Raising event | N/A |
| Clearing event | N/A |


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## 11.62 secureBootRevokeUpdateRecommended

*Table 202: secureBootRevokeUpdateRecommended properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | secureBootRevokeUpdateRecommended |
| Default severity | alert |
| Message format string | Control module *control* secure boot database revoke list (dbx) is inconsistent |
| Cause | The control module booted with Secure Boot enabled, but the secure boot database dbx contents are inconsistent with the expected values from the variable modification data set |
| Effect | Boot software was/is not subject to complete signature verification against the dbx (revoke list) |
| Raising event | N/A |
| Clearing event | N/A |

## 11.63 secureBootVariablesConsistent

*Table 203: secureBootVariablesConsistent properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | secureBootVariablesConsistent |
| Default severity | notice |
| Message format string | Control module *control* secure boot variables are consistent |
| Cause | The control module booted with Secure Boot enabled, and the secure boot variables are consistent with the expected values from the variable modification data set |
| Effect | Boot software was/is subject to complete signature verification |
| Raising event | N/A |
| Clearing event | N/A |


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## 11.64 secureBootVarsUpdateRecommended

*Table 204: secureBootVarsUpdateRecommended properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | secureBootVarsUpdateRecommended |
| Default severity | warning |
| Message format string | Control module *control* secure boot database update recommended |
| Cause | The control module booted with Secure Boot enabled, but the secure boot database contents are inconsistent with the expected values from the variable modification data set |
| Effect | Current software was subject to complete signature verification, however an update to the secure boot database is recommended |
| Raising event | N/A |
| Clearing event | N/A |

## 11.65 subinterfaceDown

*Table 205: subinterfaceDown properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | subinterfaceDown |
| Default severity | warning |
| Message format string | The subinterface *subinterface_name* is now down for reason: *oper_down_reason* |
| Cause | This event is generated when the subinterface has transitioned from the up state to the down state |
| Effect | The subinterface is now down |
| Raising event | N/A |
| Clearing event | N/A |


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## 11.66 subinterfaceUp

*Table 206: subinterfaceUp properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | subinterfaceUp |
| Default severity | notice |
| Message format string | The subinterface *subinterface_name* is now up |
| Cause | This event is generated when the subinterface has transitioned from the down state to the up state. |
| Effect | The subinterface is now up |
| Raising event | N/A |
| Clearing event | N/A |

## 11.67 systemResourceHighUtilization

*Table 207: systemResourceHighUtilization properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | systemResourceHighUtilization |
| Default severity | warning |
| Message format string | The system resource called *resource-name* has reached *threshold*% or more utilization |
| Cause | This event is generated when the utilization of a system resource has increased to a level that may warrant concern if further resources are consumed |
| Effect | None |
| Raising event | N/A |
| Clearing event | N/A |


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## 11.68 systemResourceHighUtilizationLowered

*Table 208: systemResourceHighUtilizationLowered properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | systemResourceHighUtilizationLowered |
| Default severity | notice |
| Message format string | The system resource called *resource-name* has decreased back to *threshold*% or less utilization |
| Cause | This event is generated when the utilization of a system resource has decreased to a level that may no longer warrant concern |
| Effect | None |
| Raising event | N/A |
| Clearing event | N/A |

## 11.69 systemResourceLimitCleared

*Table 209: systemResourceLimitCleared properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | systemResourceLimitCleared |
| Default severity | notice |
| Message format string | The system resource called *resource-name* has decreased from 100% utilization back to 95% or less utilization |
| Cause | This event is generated when the utilization of a system resource has decreased to a level such that resource exhaustion is no longer imminent |
| Effect | None |
| Raising event | N/A |
| Clearing event | N/A |


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## 11.70 systemResourceLimitReached

*Table 210: systemResourceLimitReached properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | systemResourceLimitReached |
| Default severity | warning |
| Message format string | The system resource called *resource-name* has reached 100% utilization |
| Cause | This event is generated when the utilization of a system resource has exhausted the resource |
| Effect | None |
| Raising event | N/A |
| Clearing event | N/A |

## 11.71 transceiverChannelHighInputPowerAlarm

*Table 211: transceiverChannelHighInputPowerAlarm properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | transceiverChannelHighInputPowerAlarm |
| Default severity | critical |
| Message format string | The input power measured for channel *channel_num* of the transceiver associated with interface *interface_name* has increased to *high_threshold* dBm or more |
| Cause | The input power of the optical channel has increased |
| Effect | High input power may affect transceiver performance |
| Raising event | N/A |
| Clearing event | N/A |


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## 11.72 transceiverChannelHighInputPowerAlarmClear

*Table 212: transceiverChannelHighInputPowerAlarmClear properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | transceiverChannelHighInputPowerAlarmClear |
| Default severity | informational |
| Message format string | The input power measured for channel *channel_num* of the transceiver associated with interface *interface_name* has decreased below *high_threshold* dBm |
| Cause | The input power of the optical channel has decreased |
| Effect | High input power may affect transceiver performance |
| Raising event | N/A |
| Clearing event | N/A |

## 11.73 transceiverChannelHighInputPowerWarning

*Table 213: transceiverChannelHighInputPowerWarning properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | transceiverChannelHighInputPowerWarning |
| Default severity | warning |
| Message format string | The input power measured for channel *channel_num* of the transceiver associated with interface *interface_name* has increased to *high_threshold* dBm or more |
| Cause | The input power of the optical channel has increased |
| Effect | High input power may affect transceiver performance |
| Raising event | N/A |
| Clearing event | N/A |


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## 11.74 transceiverChannelHighInputPowerWarningClear

*Table 214: transceiverChannelHighInputPowerWarningClear properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | transceiverChannelHighInputPowerWarningClear |
| Default severity | informational |
| Message format string | The input power measured for channel *channel_num* of the transceiver associated with interface *interface_name* has decreased below *high_threshold* dBm |
| Cause | The input power of the optical channel has decreased |
| Effect | High input power may affect transceiver performance |
| Raising event | N/A |
| Clearing event | N/A |

## 11.75 transceiverChannelHighLaserBiasCurrentAlarm

*Table 215: transceiverChannelHighLaserBiasCurrentAlarm properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | transceiverChannelHighLaserBiasCurrentAlarm |
| Default severity | critical |
| Message format string | The laser bias current supplied to channel *channel_num* of the transceiver associated with interface *interface_name* has increased to *high_threshold* mA or more |
| Cause | Laser bias increases with temperature and age. Consider lowering the ambient temperature or replacing the laser. |
| Effect | High laser bias may affect transceiver performance |
| Raising event | N/A |
| Clearing event | N/A |


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## 11.76 transceiverChannelHighLaserBiasCurrentAlarmClear

*Table 216: transceiverChannelHighLaserBiasCurrentAlarmClear properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | transceiverChannelHighLaserBiasCurrentAlarmClear |
| Default severity | informational |
| Message format string | The laser bias current supplied to channel *channel_num* of the transceiver associated with interface *interface_name* has decreased below *high_threshold* mA |
| Cause | Laser bias current has decreased |
| Effect | High laser bias may affect transceiver performance |
| Raising event | N/A |
| Clearing event | N/A |

## 11.77 transceiverChannelHighLaserBiasCurrentWarning

*Table 217: transceiverChannelHighLaserBiasCurrentWarning properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | transceiverChannelHighLaserBiasCurrentWarning |
| Default severity | warning |
| Message format string | The laser bias current supplied to channel *channel_num* of the transceiver associated with interface *interface_name* has increased to *high_threshold* mA or more |
| Cause | Laser bias increases with temperature and age. Consider lowering the ambient temperature or replacing the laser. |
| Effect | High laser bias may affect transceiver performance |
| Raising event | N/A |
| Clearing event | N/A |


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## 11.78 transceiverChannelHighLaserBiasCurrentWarningClear

*Table 218: transceiverChannelHighLaserBiasCurrentWarningClear properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | transceiverChannelHighLaserBiasCurrentWarningClear |
| Default severity | informational |
| Message format string | The laser bias current supplied to channel *channel_num* of the transceiver associated with interface *interface_name* has decreased below *high_threshold* mA |
| Cause | Laser bias current has decreased |
| Effect | High laser bias may affect transceiver performance |
| Raising event | N/A |
| Clearing event | N/A |

## 11.79 transceiverChannelHighOutputPowerAlarm

*Table 219: transceiverChannelHighOutputPowerAlarm properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | transceiverChannelHighOutputPowerAlarm |
| Default severity | critical |
| Message format string | The output power measured for channel *channel_num* of the transceiver associated with interface *interface_name* has increased to *high_threshold* dBm or more |
| Cause | The output power of the optical channel has increased |
| Effect | High output power may affect transceiver performance |
| Raising event | N/A |
| Clearing event | N/A |


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## 11.80 transceiverChannelHighOutputPowerAlarmClear

*Table 220: transceiverChannelHighOutputPowerAlarmClear properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | transceiverChannelHighOutputPowerAlarmClear |
| Default severity | informational |
| Message format string | The output power measured for channel *channel_num* of the transceiver associated with interface *interface_name* has decreased below *high_threshold* dBm |
| Cause | The output power of the optical channel has decreased |
| Effect | High output power may affect transceiver performance |
| Raising event | N/A |
| Clearing event | N/A |

## 11.81 transceiverChannelHighOutputPowerWarning

*Table 221: transceiverChannelHighOutputPowerWarning properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | transceiverChannelHighOutputPowerWarning |
| Default severity | warning |
| Message format string | The output power measured for channel *channel_num* of the transceiver associated with interface *interface_name* has increased to *high_threshold* dBm or more |
| Cause | The output power of the optical channel has increased |
| Effect | High output power may affect transceiver performance |
| Raising event | N/A |
| Clearing event | N/A |


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## 11.82 transceiverChannelHighOutputPowerWarningClear

*Table 222: transceiverChannelHighOutputPowerWarningClear properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | transceiverChannelHighOutputPowerWarningClear |
| Default severity | informational |
| Message format string | The output power measured for channel *channel_num* of the transceiver associated with interface *interface_name* has decreased below *high_threshold* dBm |
| Cause | The output power of the optical channel has decreased |
| Effect | High output power may affect transceiver performance |
| Raising event | N/A |
| Clearing event | N/A |

## 11.83 transceiverChannelLowInputPowerAlarm

*Table 223: transceiverChannelLowInputPowerAlarm properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | transceiverChannelLowInputPowerAlarm |
| Default severity | critical |
| Message format string | The input power measured for channel *channel_num* of the transceiver associated with interface *interface_name* has decreased to *low_threshold* dBm or less |
| Cause | The input power of the optical channel has decreased |
| Effect | Low input power may affect transceiver performance |
| Raising event | N/A |
| Clearing event | N/A |


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## 11.84 transceiverChannelLowInputPowerAlarmClear

*Table 224: transceiverChannelLowInputPowerAlarmClear properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | transceiverChannelLowInputPowerAlarmClear |
| Default severity | informational |
| Message format string | The input power measured for channel *channel_num* of the transceiver associated with interface *interface_name* has increased above *low_threshold* dBm |
| Cause | The input power of the optical channel has increased |
| Effect | Low input power may affect transceiver performance |
| Raising event | N/A |
| Clearing event | N/A |

## 11.85 transceiverChannelLowInputPowerWarning

*Table 225: transceiverChannelLowInputPowerWarning properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | transceiverChannelLowInputPowerWarning |
| Default severity | warning |
| Message format string | The input power measured for channel *channel_num* of the transceiver associated with interface *interface_name* has decreased to *low_threshold* dBm or less |
| Cause | The input power of the optical channel has decreased |
| Effect | Low input power may affect transceiver performance |
| Raising event | N/A |
| Clearing event | N/A |


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## 11.86 transceiverChannelLowInputPowerWarningClear

*Table 226: transceiverChannelLowInputPowerWarningClear properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | transceiverChannelLowInputPowerWarningClear |
| Default severity | informational |
| Message format string | The input power measured for channel *channel_num* of the transceiver associated with interface *interface_name* has increased above *low_threshold* dBm |
| Cause | The input power of the optical channel has increased |
| Effect | Low input power may affect transceiver performance |
| Raising event | N/A |
| Clearing event | N/A |

## 11.87 transceiverChannelLowLaserBiasCurrentAlarm

*Table 227: transceiverChannelLowLaserBiasCurrentAlarm properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | transceiverChannelLowLaserBiasCurrentAlarm |
| Default severity | critical |
| Message format string | The laser bias current supplied to channel *channel_num* of the transceiver associated with interface *interface_name* has decreased to *low_threshold* mA or less |
| Cause | The laser bias current of the optical channel has decreased |
| Effect | Low laser bias current may affect transceiver performance |
| Raising event | N/A |
| Clearing event | N/A |


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## 11.88 transceiverChannelLowLaserBiasCurrentAlarmClear

*Table 228: transceiverChannelLowLaserBiasCurrentAlarmClear properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | transceiverChannelLowLaserBiasCurrentAlarmClear |
| Default severity | informational |
| Message format string | The laser bias current supplied to channel *channel_num* of the transceiver associated with interface *interface_name* has increased above *low_threshold* mA |
| Cause | The laser bias current of the optical channel has increased |
| Effect | Low laser bias current may affect transceiver performance |
| Raising event | N/A |
| Clearing event | N/A |

## 11.89 transceiverChannelLowLaserBiasCurrentWarning

*Table 229: transceiverChannelLowLaserBiasCurrentWarning properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | transceiverChannelLowLaserBiasCurrentWarning |
| Default severity | warning |
| Message format string | The laser bias current supplied to channel *channel_num* of the transceiver associated with interface *interface_name* has decreased to *low_threshold* mA or less |
| Cause | The laser bias current of the optical channel has decreased |
| Effect | Low laser bias current may affect transceiver performance |
| Raising event | N/A |
| Clearing event | N/A |


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## 11.90 transceiverChannelLowLaserBiasCurrentWarningClear

*Table 230: transceiverChannelLowLaserBiasCurrentWarningClear properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | transceiverChannelLowLaserBiasCurrentWarningClear |
| Default severity | informational |
| Message format string | The laser bias current supplied to channel *channel_num* of the transceiver associated with interface *interface_name* has increased above *low_threshold* mA |
| Cause | The laser bias current of the optical channel has increased |
| Effect | Low laser bias current may affect transceiver performance |
| Raising event | N/A |
| Clearing event | N/A |

## 11.91 transceiverChannelLowOutputPowerAlarm

*Table 231: transceiverChannelLowOutputPowerAlarm properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | transceiverChannelLowOutputPowerAlarm |
| Default severity | critical |
| Message format string | The output power measured for channel *channel_num* of the transceiver associated with interface *interface_name* has decreased to *low_threshold* dBm or less |
| Cause | The output power of the optical channel has decreased |
| Effect | Low output power may affect transceiver performance |
| Raising event | N/A |
| Clearing event | N/A |


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## 11.92 transceiverChannelLowOutputPowerAlarmClear

*Table 232: transceiverChannelLowOutputPowerAlarmClear properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | transceiverChannelLowOutputPowerAlarmClear |
| Default severity | informational |
| Message format string | The output power measured for channel *channel_num* of the transceiver associated with interface *interface_name* has increased above *low_threshold* dBm |
| Cause | The output power of the optical channel has increased |
| Effect | Low output power may affect transceiver performance |
| Raising event | N/A |
| Clearing event | N/A |

## 11.93 transceiverChannelLowOutputPowerWarning

*Table 233: transceiverChannelLowOutputPowerWarning properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | transceiverChannelLowOutputPowerWarning |
| Default severity | warning |
| Message format string | The output power measured for channel *channel_num* of the transceiver associated with interface *interface_name* has decreased to *low_threshold* dBm or less |
| Cause | The output power of the optical channel has decreased |
| Effect | Low output power may affect transceiver performance |
| Raising event | N/A |
| Clearing event | N/A |


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## 11.94 transceiverChannelLowOutputPowerWarningClear

*Table 234: transceiverChannelLowOutputPowerWarningClear properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | transceiverChannelLowOutputPowerWarningClear |
| Default severity | informational |
| Message format string | The output power measured for channel *channel_num* of the transceiver associated with interface *interface_name* has increased above *low_threshold* dBm |
| Cause | The output power of the optical channel has increased |
| Effect | Low output power may affect transceiver performance |
| Raising event | N/A |
| Clearing event | N/A |

## 11.95 transceiverHighInputPowerAlarm

*Table 235: transceiverHighInputPowerAlarm properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | transceiverHighInputPowerAlarm |
| Default severity | critical |
| Message format string | The input power measured for the transceiver associated with interface *interface_name* has increased to *high_threshold* dBm or more |
| Cause | The input power of the optics has increased |
| Effect | High input power may affect transceiver performance |
| Raising event | N/A |
| Clearing event | N/A |


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## 11.96 transceiverHighInputPowerAlarmClear

*Table 236: transceiverHighInputPowerAlarmClear properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | transceiverHighInputPowerAlarmClear |
| Default severity | informational |
| Message format string | The input power measured for the transceiver associated with interface *interface_name* has decreased below *high_threshold* dBm |
| Cause | The input power of the optics has decreased |
| Effect | High input power may affect transceiver performance |
| Raising event | N/A |
| Clearing event | N/A |

## 11.97 transceiverHighInputPowerWarning

*Table 237: transceiverHighInputPowerWarning properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | transceiverHighInputPowerWarning |
| Default severity | warning |
| Message format string | The input power measured for the transceiver associated with interface *interface_name* has increased to *high_threshold* dBm or more |
| Cause | The input power of the optics has increased |
| Effect | High input power may affect transceiver performance |
| Raising event | N/A |
| Clearing event | N/A |


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## 11.98 transceiverHighInputPowerWarningClear

*Table 238: transceiverHighInputPowerWarningClear properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | transceiverHighInputPowerWarningClear |
| Default severity | informational |
| Message format string | The input power measured for the transceiver associated with interface *interface_name* has decreased below *high_threshold* dBm |
| Cause | The input power of the opticsl has decreased |
| Effect | High input power may affect transceiver performance |
| Raising event | N/A |
| Clearing event | N/A |

## 11.99 transceiverHighLaserBiasCurrentAlarm

*Table 239: transceiverHighLaserBiasCurrentAlarm properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | transceiverHighLaserBiasCurrentAlarm |
| Default severity | critical |
| Message format string | The laser bias current supplied to the transceiver associated with interface *interface_name* has increased to *high_threshold* mA or more |
| Cause | Laser bias increases with temperature and age. Consider lowering the ambient temperature or replacing the laser. |
| Effect | High laser bias may affect transceiver performance |
| Raising event | N/A |
| Clearing event | N/A |


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## 11.100 transceiverHighLaserBiasCurrentAlarmClear

*Table 240: transceiverHighLaserBiasCurrentAlarmClear properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | transceiverHighLaserBiasCurrentAlarmClear |
| Default severity | informational |
| Message format string | The laser bias current supplied to the transceiver associated with interface *interface_name* has decreased below *high_threshold* mA |
| Cause | Laser bias current has decreased |
| Effect | High laser bias may affect transceiver performance |
| Raising event | N/A |
| Clearing event | N/A |

## 11.101 transceiverHighLaserBiasCurrentWarning

*Table 241: transceiverHighLaserBiasCurrentWarning properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | transceiverHighLaserBiasCurrentWarning |
| Default severity | warning |
| Message format string | The laser bias current supplied to the transceiver associated with interface *interface_name* has increased to *high_threshold* mA or more |
| Cause | Laser bias increases with temperature and age. Consider lowering the ambient temperature or replacing the laser. |
| Effect | High laser bias may affect transceiver performance |
| Raising event | N/A |
| Clearing event | N/A |


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## 11.102 transceiverHighLaserBiasCurrentWarningClear

*Table 242: transceiverHighLaserBiasCurrentWarningClear properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | transceiverHighLaserBiasCurrentWarningClear |
| Default severity | informational |
| Message format string | The laser bias current supplied to the transceiver associated with interface *interface_name* has decreased below *high_threshold* mA |
| Cause | Laser bias current has decreased |
| Effect | High laser bias may affect transceiver performance |
| Raising event | N/A |
| Clearing event | N/A |

## 11.103 transceiverHighOutputPowerAlarm

*Table 243: transceiverHighOutputPowerAlarm properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | transceiverHighOutputPowerAlarm |
| Default severity | critical |
| Message format string | The output power measured for the transceiver associated with interface *interface_name* has increased to *high_threshold* dBm or more |
| Cause | The output power of the optics has increased |
| Effect | High output power may affect transceiver performance |
| Raising event | N/A |
| Clearing event | N/A |


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## 11.104 transceiverHighOutputPowerAlarmClear

*Table 244: transceiverHighOutputPowerAlarmClear properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | transceiverHighOutputPowerAlarmClear |
| Default severity | informational |
| Message format string | The output power measured for the transceiver associated with interface *interface_name* has decreased below *high_threshold* dBm |
| Cause | The output power of the optics has decreased |
| Effect | High output power may affect transceiver performance |
| Raising event | N/A |
| Clearing event | N/A |

## 11.105 transceiverHighOutputPowerWarning

*Table 245: transceiverHighOutputPowerWarning properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | transceiverHighOutputPowerWarning |
| Default severity | warning |
| Message format string | The output power measured for the transceiver associated with interface *interface_name* has increased to *high_threshold* dBm or more |
| Cause | The output power of the optics has increased |
| Effect | High output power may affect transceiver performance |
| Raising event | N/A |
| Clearing event | N/A |


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## 11.106 transceiverHighOutputPowerWarningClear

*Table 246: transceiverHighOutputPowerWarningClear properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | transceiverHighOutputPowerWarningClear |
| Default severity | informational |
| Message format string | The output power measured for the transceiver associated with interface *interface_name* has decreased below *high_threshold* dBm |
| Cause | The output power of the optics has decreased |
| Effect | High output power may affect transceiver performance |
| Raising event | N/A |
| Clearing event | N/A |

## 11.107 transceiverLowInputPowerAlarm

*Table 247: transceiverLowInputPowerAlarm properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | transceiverLowInputPowerAlarm |
| Default severity | critical |
| Message format string | The input power measured for the transceiver associated with interface *interface_name* has decreased to *low_threshold* dBm or less |
| Cause | The input power of the optics has decreased |
| Effect | Low input power may affect transceiver performance |
| Raising event | N/A |
| Clearing event | N/A |


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## 11.108 transceiverLowInputPowerAlarmClear

*Table 248: transceiverLowInputPowerAlarmClear properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | transceiverLowInputPowerAlarmClear |
| Default severity | informational |
| Message format string | The input power measured for the transceiver associated with interface *interface_name* has increased above *low_threshold* dBm |
| Cause | The input power of the optics has increased |
| Effect | Low input power may affect transceiver performance |
| Raising event | N/A |
| Clearing event | N/A |

## 11.109 transceiverLowInputPowerWarning

*Table 249: transceiverLowInputPowerWarning properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | transceiverLowInputPowerWarning |
| Default severity | warning |
| Message format string | The input power measured for the transceiver associated with interface *interface_name* has decreased to *low_threshold* dBm or less |
| Cause | The input power of the optics has decreased |
| Effect | Low input power may affect transceiver performance |
| Raising event | N/A |
| Clearing event | N/A |


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## 11.110 transceiverLowInputPowerWarningClear

*Table 250: transceiverLowInputPowerWarningClear properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | transceiverLowInputPowerWarningClear |
| Default severity | informational |
| Message format string | The input power measured for the transceiver associated with interface *interface_name* has increased above *low_threshold* dBm |
| Cause | The input power of the optics has increased |
| Effect | Low input power may affect transceiver performance |
| Raising event | N/A |
| Clearing event | N/A |

## 11.111 transceiverLowLaserBiasCurrentAlarm

*Table 251: transceiverLowLaserBiasCurrentAlarm properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | transceiverLowLaserBiasCurrentAlarm |
| Default severity | critical |
| Message format string | The laser bias current supplied to the transceiver associated with interface *interface_name* has decreased to *low_threshold* mA or less |
| Cause | The laser bias current of the optics has decreased |
| Effect | Low laser bias current may affect transceiver performance |
| Raising event | N/A |
| Clearing event | N/A |


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## 11.112 transceiverLowLaserBiasCurrentAlarmClear

*Table 252: transceiverLowLaserBiasCurrentAlarmClear properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | transceiverLowLaserBiasCurrentAlarmClear |
| Default severity | informational |
| Message format string | The laser bias current supplied to the transceiver associated with interface *interface_name* has increased above *low_threshold* mA |
| Cause | The laser bias current of the optics has increased |
| Effect | Low laser bias current may affect transceiver performance |
| Raising event | N/A |
| Clearing event | N/A |

## 11.113 transceiverLowLaserBiasCurrentWarning

*Table 253: transceiverLowLaserBiasCurrentWarning properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | transceiverLowLaserBiasCurrentWarning |
| Default severity | warning |
| Message format string | The laser bias current supplied to the transceiver associated with interface *interface_name* has decreased to *low_threshold* mA or less |
| Cause | The laser bias current of the optics has decreased |
| Effect | Low laser bias current may affect transceiver performance |
| Raising event | N/A |
| Clearing event | N/A |


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## 11.114 transceiverLowLaserBiasCurrentWarningClear

*Table 254: transceiverLowLaserBiasCurrentWarningClear properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | transceiverLowLaserBiasCurrentWarningClear |
| Default severity | informational |
| Message format string | The laser bias current supplied to the transceiver associated with interface *interface_name* has increased above *low_threshold* mA |
| Cause | The laser bias current of the optics has increased |
| Effect | Low laser bias current may affect transceiver performance |
| Raising event | N/A |
| Clearing event | N/A |

## 11.115 transceiverLowOutputPowerAlarm

*Table 255: transceiverLowOutputPowerAlarm properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | transceiverLowOutputPowerAlarm |
| Default severity | critical |
| Message format string | The output power measured for the transceiver associated with interface *interface_name* has decreased to *low_threshold* dBm or less |
| Cause | The output power of the optics has decreased |
| Effect | Low output power may affect transceiver performance |
| Raising event | N/A |
| Clearing event | N/A |


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## 11.116 transceiverLowOutputPowerAlarmClear

*Table 256: transceiverLowOutputPowerAlarmClear properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | transceiverLowOutputPowerAlarmClear |
| Default severity | informational |
| Message format string | The output power measured for the transceiver associated with interface *interface_name* has increased above *low_threshold* dBm |
| Cause | The output power of the optics has increased |
| Effect | Low output power may affect transceiver performance |
| Raising event | N/A |
| Clearing event | N/A |

## 11.117 transceiverLowOutputPowerWarning

*Table 257: transceiverLowOutputPowerWarning properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | transceiverLowOutputPowerWarning |
| Default severity | warning |
| Message format string | The output power measured for the transceiver associated with interface *interface_name* has decreased to *low_threshold* dBm or less |
| Cause | The output power of the optics has decreased |
| Effect | Low output power may affect transceiver performance |
| Raising event | N/A |
| Clearing event | N/A |


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## 11.118 transceiverLowOutputPowerWarningClear

*Table 258: transceiverLowOutputPowerWarningClear properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | transceiverLowOutputPowerWarningClear |
| Default severity | informational |
| Message format string | The output power measured for the transceiver associated with interface *interface_name* has increased above *low_threshold* dBm |
| Cause | The output power of the optics has increased |
| Effect | Low output power may affect transceiver performance |
| Raising event | N/A |
| Clearing event | N/A |

## 11.119 transceiverModuleDown

*Table 259: transceiverModuleDown properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | transceiverModuleDown |
| Default severity | warning |
| Message format string | The transceiver associated with the interface *interface_name* is now down |
| Cause | The transceiver oper-state has transitioned from the up state to any lower state |
| Effect | The transceiver is not operational |
| Raising event | N/A |
| Clearing event | N/A |


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## 11.120 transceiverModuleHighTemperatureAlarm

*Table 260: transceiverModuleHighTemperatureAlarm properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | transceiverModuleHighTemperatureAlarm |
| Default severity | critical |
| Message format string | The temperature of the transceiver associated with the interface *interface_name* has increased to *high_threshold* degrees C or more |
| Cause | The temperature of the transceiver module has increased |
| Effect | High temperatures may affect transceiver performance |
| Raising event | N/A |
| Clearing event | N/A |

## 11.121 transceiverModuleHighTemperatureAlarmClear

*Table 261: transceiverModuleHighTemperatureAlarmClear properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | transceiverModuleHighTemperatureAlarmClear |
| Default severity | informational |
| Message format string | The temperature of the transceiver associated with the interface *interface_name* has decreased below *high_threshold* degrees C |
| Cause | The temperature of the transceiver module has decreased |
| Effect | High temperatures may affect transceiver performance |
| Raising event | N/A |
| Clearing event | N/A |


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## 11.122 transceiverModuleHighTemperatureWarning

*Table 262: transceiverModuleHighTemperatureWarning properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | transceiverModuleHighTemperatureWarning |
| Default severity | warning |
| Message format string | The temperature of the transceiver associated with the interface *interface_name* has increased to *high_threshold* degrees C or more |
| Cause | The temperature of the transceiver module has increased |
| Effect | High temperatures may affect transceiver performance |
| Raising event | N/A |
| Clearing event | N/A |

## 11.123 transceiverModuleHighTemperatureWarningClear

*Table 263: transceiverModuleHighTemperatureWarningClear properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | transceiverModuleHighTemperatureWarningClear |
| Default severity | informational |
| Message format string | The temperature of the transceiver associated with the interface *interface_name* has decreased below *high_threshold* degrees C |
| Cause | The temperature of the transceiver module has decreased |
| Effect | High temperatures may affect transceiver performance |
| Raising event | N/A |
| Clearing event | N/A |


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## 11.124 transceiverModuleHighVoltageAlarm

*Table 264: transceiverModuleHighVoltageAlarm properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | transceiverModuleHighVoltageAlarm |
| Default severity | critical |
| Message format string | The voltage of the transceiver associated with the interface *interface_name* has increased to *high_threshold* Volts or more |
| Cause | The voltage supplied to the transceiver module has increased |
| Effect | High voltages may affect transceiver performance |
| Raising event | N/A |
| Clearing event | N/A |

## 11.125 transceiverModuleHighVoltageAlarmClear

*Table 265: transceiverModuleHighVoltageAlarmClear properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | transceiverModuleHighVoltageAlarmClear |
| Default severity | informational |
| Message format string | The voltage of the transceiver associated with the interface *interface_name* has decreased below *high_threshold* Volts |
| Cause | The voltage supplied to the transceiver module has decreased |
| Effect | High voltages may affect transceiver performance |
| Raising event | N/A |
| Clearing event | N/A |


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## 11.126 transceiverModuleHighVoltageWarning

*Table 266: transceiverModuleHighVoltageWarning properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | transceiverModuleHighVoltageWarning |
| Default severity | warning |
| Message format string | The voltage of the transceiver associated with the interface *interface_name* has increased to *high_threshold* Volts or more |
| Cause | The voltage supplied to the transceiver module has increased |
| Effect | High voltages may affect transceiver performance |
| Raising event | N/A |
| Clearing event | N/A |

## 11.127 transceiverModuleHighVoltageWarningClear

*Table 267: transceiverModuleHighVoltageWarningClear properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | transceiverModuleHighVoltageWarningClear |
| Default severity | informational |
| Message format string | The voltage of the transceiver associated with the interface *interface_name* has decreased below *high_threshold* Volts |
| Cause | The voltage supplied to the transceiver module has decreased |
| Effect | High voltages may affect transceiver performance |
| Raising event | N/A |
| Clearing event | N/A |


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## 11.128 transceiverModuleLowTemperatureAlarm

*Table 268: transceiverModuleLowTemperatureAlarm properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | transceiverModuleLowTemperatureAlarm |
| Default severity | critical |
| Message format string | The temperature of the transceiver associated with the interface *interface_name* has decreased to *low_threshold* degrees C or less |
| Cause | The temperature of the transceiver module has decreased |
| Effect | Low temperatures may affect transceiver performance |
| Raising event | N/A |
| Clearing event | N/A |

## 11.129 transceiverModuleLowTemperatureAlarmClear

*Table 269: transceiverModuleLowTemperatureAlarmClear properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | transceiverModuleLowTemperatureAlarmClear |
| Default severity | informational |
| Message format string | The temperature of the transceiver associated with the interface *interface_name* has increased above *low_threshold* degrees C |
| Cause | The temperature of the transceiver module has increased |
| Effect | Low temperatures may affect transceiver performance |
| Raising event | N/A |
| Clearing event | N/A |


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## 11.130 transceiverModuleLowTemperatureWarning

*Table 270: transceiverModuleLowTemperatureWarning properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | transceiverModuleLowTemperatureWarning |
| Default severity | warning |
| Message format string | The temperature of the transceiver associated with the interface *interface_name* has decreased to *low_threshold* degrees C or less |
| Cause | The temperature of the transceiver module has decreased |
| Effect | Low temperatures may affect transceiver performance |
| Raising event | N/A |
| Clearing event | N/A |

## 11.131 transceiverModuleLowTemperatureWarningClear

*Table 271: transceiverModuleLowTemperatureWarningClear properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | transceiverModuleLowTemperatureWarningClear |
| Default severity | informational |
| Message format string | The temperature of the transceiver associated with the interface *interface_name* has increased above *low_threshold* degrees C |
| Cause | The temperature of the transceiver module has increased |
| Effect | Low temperatures may affect transceiver performance |
| Raising event | N/A |
| Clearing event | N/A |


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## 11.132 transceiverModuleLowVoltageAlarm

*Table 272: transceiverModuleLowVoltageAlarm properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | transceiverModuleLowVoltageAlarm |
| Default severity | critical |
| Message format string | The voltage of the transceiver associated with the interface *interface_name* has decreased to *low_threshold* Volts or less |
| Cause | The voltage supplied to the transceiver module has decreased |
| Effect | Low voltages may affect transceiver performance |
| Raising event | N/A |
| Clearing event | N/A |

## 11.133 transceiverModuleLowVoltageAlarmClear

*Table 273: transceiverModuleLowVoltageAlarmClear properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | transceiverModuleLowVoltageAlarmClear |
| Default severity | informational |
| Message format string | The voltage of the transceiver associated with the interface *interface_name* has increased above *low_threshold* Volts |
| Cause | The voltage supplied to the transceiver module has increased |
| Effect | Low voltages may affect transceiver performance |
| Raising event | N/A |
| Clearing event | N/A |


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## 11.134 transceiverModuleLowVoltageWarning

*Table 274: transceiverModuleLowVoltageWarning properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | transceiverModuleLowVoltageWarning |
| Default severity | warning |
| Message format string | The voltage of the transceiver associated with the interface *interface_name* has decreased to *low_threshold* Volts or less |
| Cause | The voltage supplied to the transceiver module has decreased |
| Effect | Low voltages may affect transceiver performance |
| Raising event | N/A |
| Clearing event | N/A |

## 11.135 transceiverModuleLowVoltageWarningClear

*Table 275: transceiverModuleLowVoltageWarningClear properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | transceiverModuleLowVoltageWarningClear |
| Default severity | informational |
| Message format string | The voltage of the transceiver associated with the interface *interface_name* has increased above *low_threshold* Volts |
| Cause | The voltage supplied to the transceiver module has increased |
| Effect | Low voltages may affect transceiver performance |
| Raising event | N/A |
| Clearing event | N/A |


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## 11.136 transceiverModuleUp

*Table 276: transceiverModuleUp properties*

| Property name | Value |
|---|---|
| Application name | chassis |
| Event name | transceiverModuleUp |
| Default severity | notice |
| Message format string | The transceiver associated with the interface *interface_name* is now up |
| Cause | The transceiver oper-state has transitioned from any other state to the up state |
| Effect | The transceiver is now operational |
| Raising event | N/A |
| Clearing event | N/A |


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# 12 debug

## 12.1 setAllConfigLevels

*Table 277: setAllConfigLevels properties*

| Property name | Value |
|---|---|
| Application name | debug |
| Event name | setAllConfigLevels |
| Default severity | informational |
| Message format string | App config debug log levels set to: *new_level*. |
| Cause | Configuration of debug log levels that can be received by program parameter or via idb. |
| Effect | Sticky levels are losable only to another configuration setting. |
| Raising event | N/A |
| Clearing event | N/A |

## 12.2 setAllStartupLevels

*Table 278: setAllStartupLevels properties*

| Property name | Value |
|---|---|
| Application name | debug |
| Event name | setAllStartupLevels |
| Default severity | informational |
| Message format string | App debug startup log levels set to: *new_level* (configuration can override). |
| Cause | Restrain of logging verbosity internal to some programs |
| Effect | If configuration is set, and goes away, the startup levels are respected. |
| Raising event | N/A |


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| Property name | Value |
|---|---|
| Clearing event | N/A |

## 12.3 setHighBaselineLogLevels

*Table 279: setHighBaselineLogLevels properties*

| Property name | Value |
|---|---|
| Application name | debug |
| Event name | setHighBaselineLogLevels |
| Default severity | informational |
| Message format string | Default (startup), and runtime app debug log levels set to: *new_level*. Except for modules: {*configured_list*} |
| Cause | Boot phase time is up, and verbose messages are suppressed in a beta build with . |
| Effect | Internal setting to all levels. If module levels are configured, they restore to the setting. |
| Raising event | N/A |
| Clearing event | N/A |


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# 13 dhcp

## 13.1 dhcp6ClientAddressDeclined

*Table 280: dhcp6ClientAddressDeclined properties*

| Property name | Value |
|---|---|
| Application name | dhcp |
| Event name | dhcp6ClientAddressDeclined |
| Default severity | notice |
| Message format string | DHCPv6 client running on *subinterface_name* was given a duplicate IPv6 address by the DHCP server *server_ip* |
| Cause | The DHCP server assigned an IPv6 address that is already in use on the same subnet |
| Effect | The subinterface will try to acquire a new IPv6 address |
| Raising event | N/A |
| Clearing event | N/A |

## 13.2 dhcp6ClientIpv6AddressValidLifetimeExpired

*Table 281: dhcp6ClientIpv6AddressValidLifetimeExpired properties*

| Property name | Value |
|---|---|
| Application name | dhcp |
| Event name | dhcp6ClientIpv6AddressValidLifetimeExpired |
| Default severity | warning |
| Message format string | The IPv6 address *assigned_ip* obtained by the DHCPv6 client running on *subinterface_name* has become invalid |
| Cause | The DHCPv6 client was not successful in renewing or rebinding the IA_NA lease before the valid lifetime of the IPv6 address expired |
| Effect | The subinterface has no DHCP-assigned IPv6 address |


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| Property name | Value |
|---|---|
| Raising event | N/A |
| Clearing event | N/A |

## 13.3 dhcp6ClientRebindAttempted

*Table 282: dhcp6ClientRebindAttempted properties*

| Property name | Value |
|---|---|
| Application name | dhcp |
| Event name | dhcp6ClientRebindAttempted |
| Default severity | informational |
| Message format string | DHCPv6 client running on *subinterface_name* is attempting to rebind its IA_NA lease for the IPv6 address *requested_ip* |
| Cause | The DHCPv6 client could not renew its assigned IPv6 address before the timer T2 expired |
| Effect | The IPv6 address may become deprecated and then invalid if the rebind is not successful |
| Raising event | N/A |
| Clearing event | N/A |

## 13.4 dhcp6ClientReconfigureMsgDropped

*Table 283: dhcp6ClientReconfigureMsgDropped properties*

| Property name | Value |
|---|---|
| Application name | dhcp |
| Event name | dhcp6ClientReconfigureMsgDropped |
| Default severity | notice |
| Message format string | The DHCPv6 client running on *subinterface_name* dropped a RECONFIGURE message received from the server *server_ip* |
| Cause | The DHCPv6 client received a message that it was not supposed to receive (because it did not include a Reconfigure Accept option in its SOLICIT msg) |


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| Property name | Value |
|---|---|
| Effect | None |
| Raising event | N/A |
| Clearing event | N/A |

## 13.5 dhcp6ClientRenewSuccess

*Table 284: dhcp6ClientRenewSuccess properties*

| Property name | Value |
|---|---|
| Application name | dhcp |
| Event name | dhcp6ClientRenewSuccess |
| Default severity | informational |
| Message format string | DHCPv6 client running on *subinterface_name* successfully renewed the IPv6 address *requested_ip* for a new lease duration of *new_lease_time* seconds from server *server_ip* |
| Cause | The DHCPv6 client received a success REPLY in response to its RENEW |
| Effect | The subinterface remains operational with its existing DHCP-assigned IPv6 address |
| Raising event | N/A |
| Clearing event | N/A |

## 13.6 dhcpClientAddressDeclined

*Table 285: dhcpClientAddressDeclined properties*

| Property name | Value |
|---|---|
| Application name | dhcp |
| Event name | dhcpClientAddressDeclined |
| Default severity | notice |
| Message format string | DHCP client running on *subinterface_name* was given a duplicate IPv4 address by the DHCP server *server_ip* |


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| Property name | Value |
|---|---|
| Cause | The DHCP server assigned an IPv4 address that is already in use on the same subnet |
| Effect | The subinterface will try to acquire a new IPv4 address after a 10s delay |
| Raising event | N/A |
| Clearing event | N/A |

## 13.7 dhcpClientLeaseExpired

*Table 286: dhcpClientLeaseExpired properties*

| Property name | Value |
|---|---|
| Application name | dhcp |
| Event name | dhcpClientLeaseExpired |
| Default severity | warning |
| Message format string | The DHCP lease for address *assigned_ip* obtained by the DHCP client running on *subinterface_name* and obtained from server *server_ip* has expired |
| Cause | The DHCP client was not successful in renewing or rebinding the lease |
| Effect | The subinterface has no DHCP-assigned IPv4 address |
| Raising event | N/A |
| Clearing event | N/A |

## 13.8 dhcpClientRebindAttempted

*Table 287: dhcpClientRebindAttempted properties*

| Property name | Value |
|---|---|
| Application name | dhcp |
| Event name | dhcpClientRebindAttempted |
| Default severity | informational |


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| Property name | Value |
|---|---|
| Message format string | DHCP client running on *subinterface_name* is attempting to rebind its lease for the IP address *requested_ip* |
| Cause | The DHCP client could not renew its assigned IPv4 address before the timer T2 expired |
| Effect | The lease may expire if the rebind is not successful |
| Raising event | N/A |
| Clearing event | N/A |

## 13.9 dhcpClientRenewSuccess

*Table 288: dhcpClientRenewSuccess properties*

| Property name | Value |
|---|---|
| Application name | dhcp |
| Event name | dhcpClientRenewSuccess |
| Default severity | informational |
| Message format string | DHCP client running on *subinterface_name* successfully renewed the IP address *requested_ip* for a new lease duration of *new_lease_time* seconds from server *server_ip* |
| Cause | The DHCP client received a DHCPACK response to its DHCPREQUEST |
| Effect | The subinterface remains operational with its existing DHCP-assigned IPv4 address |
| Raising event | N/A |
| Clearing event | N/A |

## 13.10 dhcpv4RelayAdminDisable

*Table 289: dhcpv4RelayAdminDisable properties*

| Property name | Value |
|---|---|
| Application name | dhcp |
| Event name | dhcpv4RelayAdminDisable |


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| Property name | Value |
|---|---|
| Default severity | warning |
| Message format string | DHCPv4 Relay on sub-interface *subinterface_name* has changed to administrative disable state |
| Cause | The DHCPv4 Relay admin state has changed from enable to disable due to configuration change |
| Effect | The DHCPv4 Relay admin state is disable on the mentioned sub-interface |
| Raising event | N/A |
| Clearing event | N/A |

## 13.11 dhcpv4RelayAdminEnable

*Table 290: dhcpv4RelayAdminEnable properties*

| Property name | Value |
|---|---|
| Application name | dhcp |
| Event name | dhcpv4RelayAdminEnable |
| Default severity | warning |
| Message format string | DHCPv4 Relay on sub-interface *subinterface_name* has changed to administrative enable state |
| Cause | The DHCPv4 Relay admin state has changed from disable to enable due to configuration change |
| Effect | The DHCPv4 Relay admin state is enable on the mentioned sub-interface |
| Raising event | N/A |
| Clearing event | N/A |

## 13.12 dhcpv4RelayAllDhcpv4ServersUnreachable

*Table 291: dhcpv4RelayAllDhcpv4ServersUnreachable properties*

| Property name | Value |
|---|---|
| Application name | dhcp |


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| Property name | Value |
|---|---|
| Event name | dhcpv4RelayAllDhcpv4ServersUnreachable |
| Default severity | critical |
| Message format string | All DHCPv4 Servers *dhcpv4_server_list* configured under DHCPv4 Relay on sub-interface *subinterface_name* are unreachable for network instance *network_instance* |
| Cause | All The DHCPv4 Servers configured under DHCPv4 Relay are unreachable |
| Effect | The DHCPv4 Relay oper state is down on the mentioned sub-interface |
| Raising event | N/A |
| Clearing event | N/A |

## 13.13 dhcpv4RelayOperDown

*Table 292: dhcpv4RelayOperDown properties*

| Property name | Value |
|---|---|
| Application name | dhcp |
| Event name | dhcpv4RelayOperDown |
| Default severity | critical |
| Message format string | DHCPv4 Relay on sub-interface *subinterface_name* has changed to operational down state |
| Cause | The DHCPv4 Relay oper state has changed from up to down |
| Effect | The DHCPv4 Relay oper state is down on the mentioned sub-interface |
| Raising event | N/A |
| Clearing event | N/A |

## 13.14 dhcpv4RelayOperUp

*Table 293: dhcpv4RelayOperUp properties*

| Property name | Value |
|---|---|
| Application name | dhcp |


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| Property name | Value |
|---|---|
| Event name | dhcpv4RelayOperUp |
| Default severity | warning |
| Message format string | DHCPv4 Relay on sub-interface *subinterface_name* has changed to operational up state |
| Cause | The DHCPv4 Relay oper state has changed from down to up |
| Effect | The DHCPv4 Relay oper state is up on the mentioned sub-interface |
| Raising event | N/A |
| Clearing event | N/A |

## 13.15 dhcpv6RelayAdminDisable

*Table 294: dhcpv6RelayAdminDisable properties*

| Property name | Value |
|---|---|
| Application name | dhcp |
| Event name | dhcpv6RelayAdminDisable |
| Default severity | warning |
| Message format string | DHCPv6 Relay on sub-interface *subinterface_name* has changed to administrative disable state |
| Cause | The DHCPv6 Relay admin state has changed from enable to disable due to configuration change |
| Effect | The DHCPv6 Relay admin state is disable on the mentioned sub-interface |
| Raising event | N/A |
| Clearing event | N/A |

## 13.16 dhcpv6RelayAdminEnable

*Table 295: dhcpv6RelayAdminEnable properties*

| Property name | Value |
|---|---|
| Application name | dhcp |


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| Property name | Value |
|---|---|
| Event name | dhcpv6RelayAdminEnable |
| Default severity | warning |
| Message format string | DHCPv6 Relay on sub-interface *subinterface_name* has changed to administrative enable state |
| Cause | The DHCPv6 Relay admin state has changed from disable to enable due to configuration change |
| Effect | The DHCPv6 Relay admin state is enable on the mentioned sub-interface |
| Raising event | N/A |
| Clearing event | N/A |

## 13.17 dhcpv6RelayAllDhcpv6ServersUnreachable

*Table 296: dhcpv6RelayAllDhcpv6ServersUnreachable properties*

| Property name | Value |
|---|---|
| Application name | dhcp |
| Event name | dhcpv6RelayAllDhcpv6ServersUnreachable |
| Default severity | critical |
| Message format string | All DHCPv6 Servers *dhcpv6_server_list* configured under DHCPv6 Relay on sub-interface *subinterface_name* are unreachable for network instance *network_instance* |
| Cause | All The DHCPv6 Servers configured under DHCPv6 Relay are unreachable |
| Effect | The DHCPv6 Relay oper state is down on the mentioned sub-interface |
| Raising event | N/A |
| Clearing event | N/A |


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## 13.18 dhcpv6RelayOperDown

*Table 297: dhcpv6RelayOperDown properties*

| Property name | Value |
|---|---|
| Application name | dhcp |
| Event name | dhcpv6RelayOperDown |
| Default severity | critical |
| Message format string | DHCPv6 Relay on sub-interface *subinterface_name* has changed to operational down state |
| Cause | The DHCPv6 Relay oper state has changed from up to down |
| Effect | The DHCPv6 Relay oper state is down on the mentioned sub-interface |
| Raising event | N/A |
| Clearing event | N/A |

## 13.19 dhcpv6RelayOperUp

*Table 298: dhcpv6RelayOperUp properties*

| Property name | Value |
|---|---|
| Application name | dhcp |
| Event name | dhcpv6RelayOperUp |
| Default severity | warning |
| Message format string | DHCPv6 Relay on sub-interface *subinterface_name* has changed to operational up state |
| Cause | The DHCPv6 Relay oper state has changed from down to up |
| Effect | The DHCPv6 Relay oper state is up on the mentioned sub-interface |
| Raising event | N/A |
| Clearing event | N/A |


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## 13.20 giAddressMismatch

*Table 299: giAddressMismatch properties*

| Property name | Value |
|---|---|
| Application name | dhcp |
| Event name | giAddressMismatch |
| Default severity | critical |
| Message format string | Gi-Address for DHCPv4 Relay on sub-interface *subinterface_name* does not match any of the configured IPv4 addresses under sub-interface |
| Cause | The gi-address for DHCPv4 Relay does not match any of the configured IPv4 addresses under sub-interface |
| Effect | The DHCPv4 Relay oper state is down on the mentioned sub-interface |
| Raising event | N/A |
| Clearing event | N/A |

## 13.21 sourceAddressMismatch

*Table 300: sourceAddressMismatch properties*

| Property name | Value |
|---|---|
| Application name | dhcp |
| Event name | sourceAddressMismatch |
| Default severity | critical |
| Message format string | source-address for DHCPv6 Relay on sub-interface *subinterface_name* does not match any of the configured IPv6 addresses under sub-interface |
| Cause | The source-address for DHCPv6 Relay does not match any of the configured IPv6 addresses under sub-interface |
| Effect | The DHCPv6 Relay oper state is down on the mentioned sub-interface |
| Raising event | N/A |
| Clearing event | N/A |


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# 14 ethcfm

## 14.1 ClearErrorCcm

*Table 301: ClearErrorCcm properties*

| Property name | Value |
|---|---|
| Application name | ethcfm |
| Event name | ClearErrorCcm |
| Default severity | notice |
| Message format string | ETHCFM: The condition of ERROR-CCM on MEP *domain-id*/*association-id*/*mep-id* was cleared. |
| Cause | This notification is generated when a MEP receives a CCM frame with correct MEG level, correct MEG ID, correct MEP ID, correct period. |
| Effect | The MEP has cleared a defect. |
| Raising event | N/A |
| Clearing event | N/A |

## 14.2 ClearLOC

*Table 302: ClearLOC properties*

| Property name | Value |
|---|---|
| Application name | ethcfm |
| Event name | ClearLOC |
| Default severity | notice |
| Message format string | ETHCFM: The condition of loss of continuity (LOC) on MEP *domain-id*/*association-id*/*mep-id* was cleared. |
| Cause | This notification is generated when a MEP receives CCM frames from a peer MEP during an interval equal to 3.5 times the CCM transmission period. |
| Effect | The MEP has cleared a defect. |


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| Property name | Value |
|---|---|
| Raising event | N/A |
| Clearing event | N/A |

## 14.3 ClearMacStatus

*Table 303: ClearMacStatus properties*

| Property name | Value |
|---|---|
| Application name | ethcfm |
| Event name | ClearMacStatus |
| Default severity | notice |
| Message format string | ETHCFM: The condition of MAC-STATUS on MEP *domain-id*/*association-id*/*mep-id* was cleared. |
| Cause | This notification is generated when a MEP receives CCM frames from a peer MEP during an interval equal to 3.5 times the CCM transmission period. |
| Effect | The MEP has cleared a defect. |
| Raising event | N/A |
| Clearing event | N/A |

## 14.4 ClearMMG

*Table 304: ClearMMG properties*

| Property name | Value |
|---|---|
| Application name | ethcfm |
| Event name | ClearMMG |
| Default severity | notice |
| Message format string | ETHCFM: The condition of mismerge (MMG) on MEP *domain-id*/*association-id*/*mep-id* was cleared. |
| Cause | This notification is generated when a MEP receives a CCM frame with correct MEG level, correct MEG ID. |


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| Property name | Value |
|---|---|
| Effect | The MEP has cleared a defect. |
| Raising event | N/A |
| Clearing event | N/A |

## 14.5 ClearRDI

*Table 305: ClearRDI properties*

| Property name | Value |
|---|---|
| Application name | ethcfm |
| Event name | ClearRDI |
| Default severity | notice |
| Message format string | ETHCFM: The remote defect indication (RDI) condition on MEP *domain-id*/*association-id*/*mep-id* was cleared. |
| Cause | This notification is generated when a MEP receives a CCM frame with the RDI field clear. |
| Effect | The MEP has cleared a defect. |
| Raising event | N/A |
| Clearing event | N/A |

## 14.6 ClearRemoteCcm

*Table 306: ClearRemoteCcm properties*

| Property name | Value |
|---|---|
| Application name | ethcfm |
| Event name | ClearRemoteCcm |
| Default severity | notice |
| Message format string | ETHCFM: The condition of REMOTE-CCM on MEP *domain-id*/*association-id*/*mep-id* was cleared. |


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| Property name | Value |
|---|---|
| Cause | This notification is generated when a MEP receives CCM frames from a peer MEP during an interval equal to 3.5 times the CCM transmission period. |
| Effect | The MEP has cleared a defect. |
| Raising event | N/A |
| Clearing event | N/A |

## 14.7 ClearRemoteDefectIndication

*Table 307: ClearRemoteDefectIndication properties*

| Property name | Value |
|---|---|
| Application name | ethcfm |
| Event name | ClearRemoteDefectIndication |
| Default severity | notice |
| Message format string | ETHCFM: The remote defect indication (RDI) condition on MEP *domain-id*/*association-id*/*mep-id* was cleared. |
| Cause | This notification is generated when a MEP receives a CCM frame with the RDI field clear. |
| Effect | The MEP has cleared a defect. |
| Raising event | N/A |
| Clearing event | N/A |

## 14.8 clearTwoWaySlmAvgflrTCA

*Table 308: clearTwoWaySlmAvgflrTCA properties*

| Property name | Value |
|---|---|
| Application name | ethcfm |
| Event name | clearTwoWaySlmAvgflrTCA |
| Default severity | notice |


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| Property name | Value |
|---|---|
| Message format string | ETHCFM: A TCA is cleared for average flr of two-way synthetic loss measurement PM test ' *domain-id*/*association-id*/*mep-id*/*session-id*/*mi-type*/*direction*'. |
| Cause | This notification is generated when the average flr of a two-way synthetic loss measurement has fallen below the clear-threshold. |
| Effect | The alarm is cleared. |
| Raising event | N/A |
| Clearing event | N/A |

## 14.9 clearTwoWaySlmHliTCA

*Table 309: clearTwoWaySlmHliTCA properties*

| Property name | Value |
|---|---|
| Application name | ethcfm |
| Event name | clearTwoWaySlmHliTCA |
| Default severity | notice |
| Message format string | ETHCFM: A TCA is cleared for high loss of two-way synthetic loss measurement PM test ' *domain-id*/*association-id*/*mep-id*/*session-id*/*mi-type*/*direction*'. |
| Cause | This notification is generated when the high loss interval of a two-way synthetic loss measurement has fallen below the clear-threshold. |
| Effect | The alarm is cleared. |
| Raising event | N/A |
| Clearing event | N/A |

## 14.10 clearTwoWaySlmUnavailTCA

*Table 310: clearTwoWaySlmUnavailTCA properties*

| Property name | Value |
|---|---|
| Application name | ethcfm |
| Event name | clearTwoWaySlmUnavailTCA |


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| Property name | Value |
|---|---|
| Default severity | notice |
| Message format string | ETHCFM: A TCA is cleared for unavailability of two-way synthetic loss measurement PM test ' *domain-id*/*association-id*/*mep-id*/*session-id*/*mi-type*/*direction*'. |
| Cause | This notification is generated when the unavailability intervals of a two-way synthetic loss measurement has fallen below the clear-threshold. |
| Effect | The alarm is cleared. |
| Raising event | N/A |
| Clearing event | N/A |

## 14.11 ClearUNL

*Table 311: ClearUNL properties*

| Property name | Value |
|---|---|
| Application name | ethcfm |
| Event name | ClearUNL |
| Default severity | notice |
| Message format string | ETHCFM: The condition of unexpected MEG level (UNL) on MEP *domain-id*/*association-id*/*mep-id* was cleared. |
| Cause | This notification is generated when a MEP receives a CCM frame with correct MEG level. |
| Effect | The MEP has cleared a defect. |
| Raising event | N/A |
| Clearing event | N/A |

## 14.12 ClearUNM

*Table 312: ClearUNM properties*

| Property name | Value |
|---|---|
| Application name | ethcfm |


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| Property name | Value |
|---|---|
| Event name | ClearUNM |
| Default severity | notice |
| Message format string | ETHCFM: The condition of unexpected MEP (UNM) on MEP *domain-id*/*association-id*/*mep-id* was cleared. |
| Cause | This notification is generated when a MEP receives a CCM frame with correct MEG level, correct MEG ID, correct MEP ID. |
| Effect | The MEP has cleared a defect. |
| Raising event | N/A |
| Clearing event | N/A |

## 14.13 ClearUNP

*Table 313: ClearUNP properties*

| Property name | Value |
|---|---|
| Application name | ethcfm |
| Event name | ClearUNP |
| Default severity | notice |
| Message format string | ETHCFM: The condition of unexpected period (UNP) on MEP *domain-id*/*association-id*/*mep-id* was cleared. |
| Cause | This notification is generated when a MEP receives a CCM frame with correct MEG level, correct MEG ID, correct MEP ID, correct period. |
| Effect | The MEP has cleared a defect. |
| Raising event | N/A |
| Clearing event | N/A |

## 14.14 ClearXconCcm

*Table 314: ClearXconCcm properties*

| Property name | Value |
|---|---|
| Application name | ethcfm |


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| Property name | Value |
|---|---|
| Event name | ClearXconCcm |
| Default severity | notice |
| Message format string | ETHCFM: The condition of XCON-CCM on MEP *domain-id*/*association-id*/*mep-id* was cleared. |
| Cause | This notification is generated when a MEP receives a CCM frame with correct MEG level. |
| Effect | The MEP has cleared a defect. |
| Raising event | N/A |
| Clearing event | N/A |

## 14.15 linktraceCompleted

*Table 315: linktraceCompleted properties*

| Property name | Value |
|---|---|
| Application name | ethcfm |
| Event name | linktraceCompleted |
| Default severity | notice |
| Message format string | ETHCFM: A linktrace test from MEP *domain-id*/*association-id*/ *mep-id* to the destination address *target* has completed. |
| Cause | This notification is generated when an on-demand linktrace test was successfully completed. |
| Effect | The test result is stored in the MEP object. |
| Raising event | N/A |
| Clearing event | N/A |

## 14.16 loopbackCompleted

*Table 316: loopbackCompleted properties*

| Property name | Value |
|---|---|
| Application name | ethcfm |


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| Property name | Value |
|---|---|
| Event name | loopbackCompleted |
| Default severity | notice |
| Message format string | ETHCFM: A loopback test from MEP *domain-id*/*association-id*/*mep-id* to the destination address *target* has completed. |
| Cause | This notification is generated when an on-demand loopback test was successfully completed. |
| Effect | The test result is stored in the MEP object. |
| Raising event | N/A |
| Clearing event | N/A |

## 14.17 RaiseErrorCcm

*Table 317: RaiseErrorCcm properties*

| Property name | Value |
|---|---|
| Application name | ethcfm |
| Event name | RaiseErrorCcm |
| Default severity | warning |
| Message format string | ETHCFM: MEP *domain-id*/*association-id*/*mep-id* has a condition of ERROR-CCM. |
| Cause | This notification is generated when a MEP receives a CCM frame with correct MEG level, correct MEG ID, correct MEP ID, but with a period field value different than its own CCM transmission period. |
| Effect | The MEP has a defect. |
| Raising event | N/A |
| Clearing event | N/A |


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## 14.18 RaiseLOC

*Table 318: RaiseLOC properties*

| Property name | Value |
|---|---|
| Application name | ethcfm |
| Event name | RaiseLOC |
| Default severity | warning |
| Message format string | ETHCFM: MEP *domain-id*/*association-id*/*mep-id* has a condition of loss of continuity (LOC). |
| Cause | This notification is generated when a MEP receives no CCM frames from a peer MEP during an interval equal to 3.5 times the CCM transmission period. |
| Effect | The MEP has a defect. |
| Raising event | N/A |
| Clearing event | N/A |

## 14.19 RaiseMacStatus

*Table 319: RaiseMacStatus properties*

| Property name | Value |
|---|---|
| Application name | ethcfm |
| Event name | RaiseMacStatus |
| Default severity | warning |
| Message format string | ETHCFM: MEP *domain-id*/*association-id*/*mep-id* has a condition of MAC-STATUS. |
| Cause | This notification is generated when a MEP receives no CCM frames from a peer MEP during an interval equal to 3.5 times the CCM transmission period. |
| Effect | The MEP has a defect. |
| Raising event | N/A |
| Clearing event | N/A |


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## 14.20 RaiseMMG

*Table 320: RaiseMMG properties*

| Property name | Value |
|---|---|
| Application name | ethcfm |
| Event name | RaiseMMG |
| Default severity | warning |
| Message format string | ETHCFM: MEP *domain-id*/*association-id*/*mep-id* has a condition of mismerge (MMG). |
| Cause | This notification is generated when a MEP receives a CCM frame with correct MEG level but incorrect MEG ID. |
| Effect | The MEP has a defect. |
| Raising event | N/A |
| Clearing event | N/A |

## 14.21 RaiseRDI

*Table 321: RaiseRDI properties*

| Property name | Value |
|---|---|
| Application name | ethcfm |
| Event name | RaiseRDI |
| Default severity | warning |
| Message format string | ETHCFM: MEP *domain-id*/*association-id*/*mep-id* has a condition of remote defect indication (RDI). |
| Cause | This notification is generated when a MEP receives a CCM frame with the RDI field set. |
| Effect | The MEP has a defect. |
| Raising event | N/A |
| Clearing event | N/A |


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## 14.22 RaiseRemoteCcm

*Table 322: RaiseRemoteCcm properties*

| Property name | Value |
|---|---|
| Application name | ethcfm |
| Event name | RaiseRemoteCcm |
| Default severity | warning |
| Message format string | ETHCFM: MEP *domain-id*/*association-id*/*mep-id* has a condition of REMOTE-CCM. |
| Cause | This notification is generated when a MEP receives no CCM frames from a peer MEP during an interval equal to 3.5 times the CCM transmission period. |
| Effect | The MEP has a defect. |
| Raising event | N/A |
| Clearing event | N/A |

## 14.23 RaiseRemoteDefectIndication

*Table 323: RaiseRemoteDefectIndication properties*

| Property name | Value |
|---|---|
| Application name | ethcfm |
| Event name | RaiseRemoteDefectIndication |
| Default severity | warning |
| Message format string | ETHCFM: MEP *domain-id*/*association-id*/*mep-id* has a condition of remote defect indication (RDI). |
| Cause | This notification is generated when a MEP receives a CCM frame with the RDI field set. |
| Effect | The MEP has a defect. |
| Raising event | N/A |
| Clearing event | N/A |


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## 14.24 raiseTwoWaySlmAvgflrTCA

*Table 324: raiseTwoWaySlmAvgflrTCA properties*

| Property name | Value |
|---|---|
| Application name | ethcfm |
| Event name | raiseTwoWaySlmAvgflrTCA |
| Default severity | warning |
| Message format string | ETHCFM: A TCA is raised for average flr of two-way synthetic loss measurement PM test ' *domain-id*/*association-id*/*mep-id*/*session-id*/*mi-type*/*direction*'. |
| Cause | This notification is generated when the average flr of a two-way synthetic loss measurement has reached or exceeded the raise-threshold. |
| Effect | An alarm is raised. |
| Raising event | N/A |
| Clearing event | N/A |

## 14.25 raiseTwoWaySlmHliTCA

*Table 325: raiseTwoWaySlmHliTCA properties*

| Property name | Value |
|---|---|
| Application name | ethcfm |
| Event name | raiseTwoWaySlmHliTCA |
| Default severity | warning |
| Message format string | ETHCFM: A TCA is raised for high loss of two-way synthetic loss measurement PM test ' *domain-id*/*association-id*/*mep-id*/*session-id*/*mi-type*/*direction*'. |
| Cause | This notification is generated when the high loss intervals of a two-way synthetic loss measurement has reached or exceeded the raise-threshold. |
| Effect | An alarm is raised. |
| Raising event | N/A |


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| Property name | Value |
|---|---|
| Clearing event | N/A |

## 14.26 raiseTwoWaySlmUnavailTCA

*Table 326: raiseTwoWaySlmUnavailTCA properties*

| Property name | Value |
|---|---|
| Application name | ethcfm |
| Event name | raiseTwoWaySlmUnavailTCA |
| Default severity | warning |
| Message format string | ETHCFM: A TCA is raised for unavailability of two-way synthetic loss measurement PM test ' *domain-id*/*association-id*/*mep-id*/*session-id*/*mi-type*/*direction*'. |
| Cause | This notification is generated when the unavailability intervals of a two-way synthetic loss measurement has reached or exceeded the raise-threshold. |
| Effect | An alarm is raised. |
| Raising event | N/A |
| Clearing event | N/A |

## 14.27 RaiseUNL

*Table 327: RaiseUNL properties*

| Property name | Value |
|---|---|
| Application name | ethcfm |
| Event name | RaiseUNL |
| Default severity | warning |
| Message format string | ETHCFM: MEP *domain-id*/*association-id*/*mep-id* has a condition of unexpected MEG level (UNL). |
| Cause | This notification is generated when a MEP receives a CCM frame with incorrect MEG level. |
| Effect | The MEP has a defect. |


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| Property name | Value |
|---|---|
| Raising event | N/A |
| Clearing event | N/A |

## 14.28 RaiseUNM

*Table 328: RaiseUNM properties*

| Property name | Value |
|---|---|
| Application name | ethcfm |
| Event name | RaiseUNM |
| Default severity | warning |
| Message format string | ETHCFM: MEP *domain-id*/*association-id*/*mep-id* has a condition of unexpected MEP (UNM). |
| Cause | This notification is generated when a MEP receives a CCM frame with correct MEG level, correct MEG ID but with unexpected MEP ID. |
| Effect | The MEP has a defect. |
| Raising event | N/A |
| Clearing event | N/A |

## 14.29 RaiseUNP

*Table 329: RaiseUNP properties*

| Property name | Value |
|---|---|
| Application name | ethcfm |
| Event name | RaiseUNP |
| Default severity | warning |
| Message format string | ETHCFM: MEP *domain-id*/*association-id*/*mep-id* has a condition of unexpected period (UNP). |
| Cause | This notification is generated when a MEP receives a CCM frame with correct MEG level, correct MEG ID, correct MEP ID, but with a period field value different than its own CCM transmission period. |


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| Property name | Value |
|---|---|
| Effect | The MEP has a defect. |
| Raising event | N/A |
| Clearing event | N/A |

## 14.30 RaiseXconCcm

*Table 330: RaiseXconCcm properties*

| Property name | Value |
|---|---|
| Application name | ethcfm |
| Event name | RaiseXconCcm |
| Default severity | warning |
| Message format string | ETHCFM: MEP *domain-id*/*association-id*/*mep-id* has a condition of XCON-CCM. |
| Cause | This notification is generated when a MEP receives a CCM frame with incorrect MEG level. |
| Effect | The MEP has a defect. |
| Raising event | N/A |
| Clearing event | N/A |

## 14.31 singleEndedDmmCompleted

*Table 331: singleEndedDmmCompleted properties*

| Property name | Value |
|---|---|
| Application name | ethcfm |
| Event name | singleEndedDmmCompleted |
| Default severity | notice |
| Message format string | ETHCFM: A single-ended delay measurement test (*test-id*) from MEP *domain-id*/*association-id*/*mep-id* to the destination address *target* has completed. |


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| Property name | Value |
|---|---|
| Cause | This notification is generated when an on-demand single-ended delay measurement test was successfully completed. |
| Effect | The test result is stored in the MEP object. |
| Raising event | N/A |
| Clearing event | N/A |

## 14.32 singleEndedSlmCompleted

*Table 332: singleEndedSlmCompleted properties*

| Property name | Value |
|---|---|
| Application name | ethcfm |
| Event name | singleEndedSlmCompleted |
| Default severity | notice |
| Message format string | ETHCFM: A single-ended synthetic loss measurement test ( *test-id*) from MEP *domain-id*/*association-id*/*mep-id* to the destination address *target* has completed. |
| Cause | This notification is generated when an on-demand single-ended synthetic loss measurement test was successfully completed. |
| Effect | The test result is stored in the MEP object. |
| Raising event | N/A |
| Clearing event | N/A |

## 14.33 TwoWaySlmAvailabilityState

*Table 333: TwoWaySlmAvailabilityState properties*

| Property name | Value |
|---|---|
| Application name | ethcfm |
| Event name | TwoWaySlmAvailabilityState |
| Default severity | notice |


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| Property name | Value |
|---|---|
| Message format string | ETHCFM: The availability state has transited to '*availability*' in two-way synthetic loss measurement PM test ' *domain-id*/*association-id*/*mep-id*/*session-id*/*mi-type*/*direction*' at '*transition-time*'. |
| Cause | This notification is generated when the availability of a two-way synthetic loss measurement has transited from Available to Unavailable or vice versa. |
| Effect | The notice is sent. |
| Raising event | N/A |
| Clearing event | N/A |


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# 15 evpn

## 15.1 ethernetsegmentNetworkInstanceBgpInstanceDfStatusChanged

*Table 334: ethernetsegmentNetworkInstanceBgpInstanceDfStatusChanged properties*

| Property name | Value |
|---|---|
| Application name | evpn |
| Event name | ethernetsegmentNetworkInstanceBgpInstanceDfStatusChanged |
| Default severity | notice |
| Message format string | BGP-EVPN attachment circuit on ethernet segment *ethernet-segment* on network instance *network-instance* and bgp instance *bgp-instance* is now a *designated-forwarding-status*. |
| Cause | This event is generated when there is a change in the ethernet segment attachment circuit designated forwarder state. |
| Effect | The forwarding state of the ethernet segment attachment circuit is changed. |
| Raising event | N/A |
| Clearing event | N/A |

## 15.2 ethernetsegmentPreferenceOperValueChanged

*Table 335: ethernetsegmentPreferenceOperValueChanged properties*

| Property name | Value |
|---|---|
| Application name | evpn |
| Event name | ethernetsegmentPreferenceOperValueChanged |
| Default severity | notice |
| Message format string | The Oper DF preference value changed to *oper-preference* and/or the DP value changed to *do-not-preempt* on ethernet-segment *ethernet-segment* |
| Cause | This event is generated when there is a change in the ethernet segment operational preference value or the do not preempt value. |


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| Property name | Value |
|---|---|
| Effect | The designated forwarder state of the ethernet segment's attachment circuit might change. |
| Raising event | N/A |
| Clearing event | N/A |

## 15.3 evpnAutoDiscoveryEviRouteAddDroppedDueToUnexpectedEthTag

*Table 336: evpnAutoDiscoveryEviRouteAddDroppedDueToUnexpectedEthTag properties*

| Property name | Value |
|---|---|
| Application name | evpn |
| Event name | evpnAutoDiscoveryEviRouteAddDroppedDueToUnexpectedEthTag |
| Default severity | warning |
| Message format string | BGP-EVPN Auto Discovery Evi route received with route-distinguisher *route-distinguisher* and ethernet segment identifier *ethernet-segment-id* add on network instance *network-instance* and bgp instance *bgp-instance* is dropped because the Ethernet Tag Identifier *received-ethernet-tag* received in the route, does not match locally configured Ethernet Tag Identifier *local-ethernet-tag* on the bgp-instance |
| Cause | This event is generated when a received Ethernet Tag Identifier does not match the one configured locally on the bgp-instance in the network instance |
| Effect | The designated forwarder election on this ethernet-segment-id for this EVI will be affected. The mac-address's on this ethernet-segment will not be programmed in the bridge-table |
| Raising event | N/A |
| Clearing event | N/A |

## 15.4 evpnAutoDiscoveryEviRouteWithdrawDroppedDueToUnexpectedEthTag

*Table 337: evpnAutoDiscoveryEviRouteWithdrawDroppedDueToUnexpectedEthTag properties*

| Property name | Value |
|---|---|
| Application name | evpn |


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| Property name | Value |
|---|---|
| Event name | evpnAutoDiscoveryEviRouteWithdrawDroppedDueToUnexpectedEthTag |
| Default severity | warning |
| Message format string | BGP-EVPN Auto Discovery Evi route received with route-distinguisher *route-distinguisher* and ethernet segment identifier *ethernet-segment-id* delete on network instance *network-instance* and bgp instance *bgp-instance* is dropped because the Ethernet Tag Identifier *received-ethernet-tag* received in the route, does not match locally configured Ethernet Tag Identifier *local-ethernet-tag* on the bgp-instance |
| Cause | This event is generated when a received Ethernet Tag Identifier does not match the one configured locally on the bgp-instance in the network instance |
| Effect | The designated forwarder election on this ethernet-segment-id for this EVI will be affected. The mac-address's on this ethernet-segment if programmed in the bridge-table, will not be deleted or updated |
| Raising event | N/A |
| Clearing event | N/A |

## 15.5 evpnAutoDiscoveryEviRouteWithdrawnDueToUnexpectedVni

*Table 338: evpnAutoDiscoveryEviRouteWithdrawnDueToUnexpectedVni properties*

| Property name | Value |
|---|---|
| Application name | evpn |
| Event name | evpnAutoDiscoveryEviRouteWithdrawnDueToUnexpectedVni |
| Default severity | warning |
| Message format string | BGP-EVPN Auto Discovery Evi route received with route-distinguisher *route-distinguisher* and ethernet segment identifier *ethernet-segment-id* on network instance *network-instance* and bgp instance *bgp-instance* is withdrawn because the VXLAN Network Identifier *received-vni* received in the route, does not match locally configured VXLAN Network Identifier *local-vni* on the bgp-instance |
| Cause | This event is generated when a received VXLAN Network Identifier does not match the one configured locally on the bgp-instance in the network instance |


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| Property name | Value |
|---|---|
| Effect | The designated forwarder election on this ethernet-segment-id for this EVI will be affected. The mac-address's on this ethernet-segment will not be programmed in the bridge-table |
| Raising event | N/A |
| Clearing event | N/A |

## 15.6 evpnInclMcastRouteAddDroppedDueToUnexpectedEthTag

*Table 339: evpnInclMcastRouteAddDroppedDueToUnexpectedEthTag properties*

| Property name | Value |
|---|---|
| Application name | evpn |
| Event name | evpnInclMcastRouteAddDroppedDueToUnexpectedEthTag |
| Default severity | warning |
| Message format string | BGP-EVPN Inclusive Multicast route received with route-distinguisher *route-distinguisher* and originating IP *originating-ip-address* add on network instance *network-instance* and bgp instance *bgp-instance* is dropped because the Ethernet Tag Identifier *received-ethernet-tag* received in the route, does not match locally configured Ethernet Tag Identifier *local-ethernet-tag* on the bgp-instance |
| Cause | This event is generated when a received Ethernet Tag Identifier does not match the one configured locally on the bgp-instance in the network instance |
| Effect | The Virtual Tunnel End Point for the received VXLAN Network Identifier is not programmed in the multicast flood list of bridge-table |
| Raising event | N/A |
| Clearing event | N/A |

## 15.7 evpnInclMcastRouteWithdrawDroppedDueToUnexpectedEthTag

*Table 340: evpnInclMcastRouteWithdrawDroppedDueToUnexpectedEthTag properties*

| Property name | Value |
|---|---|
| Application name | evpn |


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| Property name | Value |
|---|---|
| Event name | evpnInclMcastRouteWithdrawDroppedDueToUnexpectedEthTag |
| Default severity | warning |
| Message format string | BGP-EVPN Inclusive Multicast route received with route-distinguisher *route-distinguisher* and originating IP *originating-ip-address* withdraw on network instance *network-instance* and bgp instance *bgp-instance* is dropped because the Ethernet Tag Identifier *received-ethernet-tag* received in the route, does not match locally configured Ethernet Tag Identifier *local-ethernet-tag* on the bgp-instance |
| Cause | This event is generated when a received Ethernet Tag Identifier does not match the one configured locally on the bgp-instance in the network instance |
| Effect | The Virtual Tunnel End Point for the received VXLAN Network Identifier if programmed in the multicast flood list of bridge-table, might not be removed |
| Raising event | N/A |
| Clearing event | N/A |

## 15.8 evpnInclMcastRouteWithdrawnDueToUnexpectedVni

*Table 341: evpnInclMcastRouteWithdrawnDueToUnexpectedVni properties*

| Property name | Value |
|---|---|
| Application name | evpn |
| Event name | evpnInclMcastRouteWithdrawnDueToUnexpectedVni |
| Default severity | warning |
| Message format string | BGP-EVPN Inclusive Multicast route received with route-distinguisher *route-distinguisher* and originating IP *originating-ip-address* on network instance *network-instance* and bgp instance *bgp-instance* is withdrawn because the VXLAN Network Identifier *received-vni* received in the route, does not match locally configured VXLAN Network Identifier *local-vni* on the bgp-instance |
| Cause | This event is generated when a received VXLAN Network Identifier does not match the one configured locally on the bgp-instance in the network instance |
| Effect | The Virtual Tunnel End Point for the received VXLAN Network Identifier is not programmed in the multicast flood list of bridge-table |


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| Property name | Value |
|---|---|
| Raising event | N/A |
| Clearing event | N/A |

## 15.9 evpnIpPrefixRouteNotImportedDueToUnexpectedVni

*Table 342: evpnIpPrefixRouteNotImportedDueToUnexpectedVni properties*

| Property name | Value |
|---|---|
| Application name | evpn |
| Event name | evpnIpPrefixRouteNotImportedDueToUnexpectedVni |
| Default severity | warning |
| Message format string | BGP-EVPN IP-PREFIX *ip-prefix* LENGTH *prefix-length* received with route-distinguisher *route-distinguisher* on network instance *network-instance* and bgp instance *bgp-instance* is not imported because the VXLAN Network Identifier *received-vni* received in the route, does not match the locally configured VXLAN Network Identifier on the bgp-instance |
| Cause | This event is generated when a received VXLAN Network Identifier does not match the one configured locally on the bgp-instance in the network instance |
| Effect | The IP-Prefix is not programmed in the route-table |
| Raising event | N/A |
| Clearing event | N/A |

## 15.10 evpnIpPrefixRouteWithdrawnDueToNoGwMac

*Table 343: evpnIpPrefixRouteWithdrawnDueToNoGwMac properties*

| Property name | Value |
|---|---|
| Application name | evpn |
| Event name | evpnIpPrefixRouteWithdrawnDueToNoGwMac |
| Default severity | warning |
| Message format string | BGP-EVPN IP-PREFIX *ip-prefix* LENGTH *prefix-length* received with route-distinguisher *route-distinguisher* on network instance *network-* |


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| Property name | Value |
|---|---|
| | *instance* and bgp instance *bgp-instance* is withdrawn because the route is received without a Gateway MAC Address and that is not allowed in an EVPN Interface-less bgp instance for VXLAN tunnels |
| Cause | This event is generated when a received IP Prefix route does not contain the required GW Mac and therefore it is not allowed in the local EVPN Interface-less bgp instance of the network-instance |
| Effect | The ip-prefix is not programmed in the route table of the network instance |
| Raising event | N/A |
| Clearing event | N/A |

## 15.11 evpnIpPrefixRouteWithdrawnDueToUnexpectedGwIp

*Table 344: evpnIpPrefixRouteWithdrawnDueToUnexpectedGwIp properties*

| Property name | Value |
|---|---|
| Application name | evpn |
| Event name | evpnIpPrefixRouteWithdrawnDueToUnexpectedGwIp |
| Default severity | warning |
| Message format string | BGP-EVPN IP-PREFIX *ip-prefix* LENGTH *prefix-length* received with route-distinguisher *route-distinguisher* on network instance *network-instance* and bgp instance *bgp-instance* is withdrawn because the non-zero Gateway IP Address *gw-ip-address* received in the route is not allowed in an EVPN Interface-less bgp instance of the network-instance |
| Cause | This event is generated when a received Gateway IP Address in the IP Prefix routes is non-zero and therefore not allowed in the local EVPN Interface-less bgp instance of the network-instance |
| Effect | The ip-prefix is not programmed in the route table of the network instance |
| Raising event | N/A |
| Clearing event | N/A |


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## 15.12 evpnMacRouteAddDroppedDueToUnexpectedEthTag

*Table 345: evpnMacRouteAddDroppedDueToUnexpectedEthTag properties*

| Property name | Value |
|---|---|
| Application name | evpn |
| Event name | evpnMacRouteAddDroppedDueToUnexpectedEthTag |
| Default severity | warning |
| Message format string | BGP-EVPN MAC *mac-address* IP *ip-address* received with route-distinguisher *route-distinguisher* add on network instance *network-instance* and bgp instance *bgp-instance* is dropped because the Ethernet Tag Identifier *received-ethernet-tag* received in the route, does not match locally configured Ethernet Tag Identifier *local-ethernet-tag* on the bgp-instance |
| Cause | This event is generated when a received Ethernet Tag Identifier does not match the one configured locally on the bgp-instance in the network instance |
| Effect | The mac-address is not programmed in the bridge-table AND/OR the mac-address/ip-address pair is not programmed in the ARP or Neighbor discovery table |
| Raising event | N/A |
| Clearing event | N/A |

## 15.13 evpnMacRouteWithdrawDroppedDueToUnexpectedEthTag

*Table 346: evpnMacRouteWithdrawDroppedDueToUnexpectedEthTag properties*

| Property name | Value |
|---|---|
| Application name | evpn |
| Event name | evpnMacRouteWithdrawDroppedDueToUnexpectedEthTag |
| Default severity | warning |
| Message format string | BGP-EVPN MAC *mac-address* IP *ip-address* received with route-distinguisher *route-distinguisher* delete on network instance *network-instance* and bgp instance *bgp-instance* is dropped because the Ethernet Tag Identifier *received-ethernet-tag* received in the route, does not match locally configured Ethernet Tag Identifier *local-ethernet-tag* on the bgp-instance |


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| Property name | Value |
|---|---|
| Cause | This event is generated when a received Ethernet Tag Identifier does not match the one configured locally on the bgp-instance in the network instance |
| Effect | The mac-address if programmed in the bridge-table AND/OR the mac-address/ip-address pair if programmed in the ARP or Neighbor discovery table, might not be removed |
| Raising event | N/A |
| Clearing event | N/A |

## 15.14 evpnMacRouteWithdrawnDueToUnexpectedVni

*Table 347: evpnMacRouteWithdrawnDueToUnexpectedVni properties*

| Property name | Value |
|---|---|
| Application name | evpn |
| Event name | evpnMacRouteWithdrawnDueToUnexpectedVni |
| Default severity | warning |
| Message format string | BGP-EVPN MAC *mac-address* IP *ip-address* received with route-distinguisher *route-distinguisher* on network instance *network-instance* and bgp instance *bgp-instance* is withdrawn because the VXLAN Network Identifier *received-vni* received in the route, does not match locally configured VXLAN Network Identifier *local-vni* on the bgp-instance |
| Cause | This event is generated when a received VXLAN Network Identifier does not match the one configured locally on the bgp-instance in the network instance |
| Effect | The mac-address is not programmed in the bridge-table AND/OR the mac-address/ip-address pair is not programmed in the ARP or Neighbor discovery table |
| Raising event | N/A |
| Clearing event | N/A |


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## 15.15 evpnNetworkInstanceCwMismatch

*Table 348: evpnNetworkInstanceCwMismatch properties*

| Property name | Value |
|---|---|
| Application name | evpn |
| Event name | evpnNetworkInstanceCwMismatch |
| Default severity | warning |
| Message format string | BGP-EVPN Inclusive Multicast route received from originating IP *originating-ip-address* on network instance *network-instance* bgp instance *bgp-instance* has a Control Word mismatch in the Layer-2 Attributes extended community |
| Cause | This event is generated when the received IMET route from the peer carries a Layer-2 Attributes extended community whose C (Control Word) flag does not match the locally configured control-word setting on the bgp-instance. |
| Effect | The Inclusive Multicast EVPN destination toward this peer is not installed (BUM traffic is not forwarded), and unicast MACs learned from this peer are programmed as blackhole. Aliasing next-hops belonging to this peer are excluded from any ES destination. |
| Raising event | N/A |
| Clearing event | N/A |

## 15.16 evpnNetworkInstanceCwMismatchCleared

*Table 349: evpnNetworkInstanceCwMismatchCleared properties*

| Property name | Value |
|---|---|
| Application name | evpn |
| Event name | evpnNetworkInstanceCwMismatchCleared |
| Default severity | notice |
| Message format string | BGP-EVPN Inclusive Multicast route received from originating IP *originating-ip-address* on network instance *network-instance* bgp instance *bgp-instance* no longer has a Control Word mismatch in the Layer-2 Attributes extended community |
| Cause | This event is generated when a previously reported Control Word mismatch condition toward a peer has been resolved. The peer's IMET |


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| Property name | Value |
|---|---|
| | route now carries a Layer-2 Attributes extended community whose C (Control Word) flag matches the locally configured control-word setting on the bgp-instance. |
| Effect | If no other mismatch exists, the Inclusive Multicast EVPN destination toward this peer is reinstated. BUM traffic forwarding and unicast MAC programming toward this peer resume normally. |
| Raising event | N/A |
| Clearing event | N/A |

## 15.17 evpnNetworkInstanceFlowLabelMismatch

*Table 350: evpnNetworkInstanceFlowLabelMismatch properties*

| Property name | Value |
|---|---|
| Application name | evpn |
| Event name | evpnNetworkInstanceFlowLabelMismatch |
| Default severity | warning |
| Message format string | BGP-EVPN Inclusive Multicast route received from originating IP *originating-ip-address* on network instance *network-instance* bgp instance *bgp-instance* has a Flow Label mismatch in the Layer-2 Attributes extended community |
| Cause | This event is generated when the received IMET route from the peer carries a Layer-2 Attributes extended community whose F (Flow Label) flag does not match the locally configured flow-label setting on the bgp-instance. |
| Effect | The Inclusive Multicast EVPN destination toward this peer is not installed (BUM traffic is not forwarded), and unicast MACs learned from this peer are programmed as blackhole. Aliasing next-hops belonging to this peer are excluded from any ES destination. The flow-label is not pushed for known-unicast traffic toward this peer. |
| Raising event | N/A |
| Clearing event | N/A |


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## 15.18 evpnNetworkInstanceFlowLabelMismatchCleared

*Table 351: evpnNetworkInstanceFlowLabelMismatchCleared properties*

| Property name | Value |
|---|---|
| Application name | evpn |
| Event name | evpnNetworkInstanceFlowLabelMismatchCleared |
| Default severity | notice |
| Message format string | BGP-EVPN Inclusive Multicast route received from originating IP *originating-ip-address* on network instance *network-instance* bgp instance *bgp-instance* no longer has a Flow Label mismatch in the Layer-2 Attributes extended community |
| Cause | This event is generated when a previously reported Flow Label mismatch condition toward a peer has been resolved. The peer's IMET route now carries a Layer-2 Attributes extended community whose F (Flow Label) flag matches the locally configured flow-label setting on the bgp-instance. |
| Effect | If no other mismatch exists, the Inclusive Multicast EVPN destination toward this peer is reinstated. BUM traffic forwarding and unicast MAC programming toward this peer resume normally. |
| Raising event | N/A |
| Clearing event | N/A |

## 15.19 evpnNetworkInstanceMtuMismatch

*Table 352: evpnNetworkInstanceMtuMismatch properties*

| Property name | Value |
|---|---|
| Application name | evpn |
| Event name | evpnNetworkInstanceMtuMismatch |
| Default severity | warning |
| Message format string | BGP-EVPN Inclusive Multicast route received from originating IP *originating-ip-address* on network instance *network-instance* bgp instance *bgp-instance* has an MTU mismatch in the Layer-2 Attributes extended community |
| Cause | This event is generated when the received IMET route from the peer carries a Layer-2 Attributes extended community whose Layer-2 MTU |


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| Property name | Value |
|---|---|
| | value does not match the locally configured MAC-VRF MTU. This check can be suppressed by configuring ignore-mtu-mismatch=true on the bgp-instance. |
| Effect | The Inclusive Multicast EVPN destination toward this peer is not installed (BUM traffic is not forwarded), and unicast MACs learned from this peer are programmed as blackhole. Aliasing next-hops belonging to this peer are excluded from any ES destination. |
| Raising event | N/A |
| Clearing event | N/A |

## 15.20 evpnNetworkInstanceMtuMismatchCleared

*Table 353: evpnNetworkInstanceMtuMismatchCleared properties*

| Property name | Value |
|---|---|
| Application name | evpn |
| Event name | evpnNetworkInstanceMtuMismatchCleared |
| Default severity | notice |
| Message format string | BGP-EVPN Inclusive Multicast route received from originating IP *originating-ip-address* on network instance *network-instance* bgp instance *bgp-instance* no longer has an MTU mismatch in the Layer-2 Attributes extended community |
| Cause | This event is generated when a previously reported MTU mismatch condition toward a peer has been resolved. The peer's IMET route now carries a Layer-2 Attributes extended community whose Layer-2 MTU value matches the locally configured MAC-VRF MTU. |
| Effect | If no other mismatch exists, the Inclusive Multicast EVPN destination toward this peer is reinstated. BUM traffic forwarding and unicast MAC programming toward this peer resume normally. |
| Raising event | N/A |
| Clearing event | N/A |


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## 15.21 evpnNetworkInstanceNoL2Attributes

*Table 354: evpnNetworkInstanceNoL2Attributes properties*

| Property name | Value |
|---|---|
| Application name | evpn |
| Event name | evpnNetworkInstanceNoL2Attributes |
| Default severity | warning |
| Message format string | BGP-EVPN Inclusive Multicast route received from originating IP *originating-ip-address* on network instance *network-instance* bgp instance *bgp-instance* does not include a Layer-2 Attributes extended community while it is locally expected (advertise-l2-attributes-extended-community=true) |
| Cause | This event is generated when the bgp-instance is locally configured to advertise and process the Layer-2 Attributes extended community on IMET routes, but a received IMET route from the peer does not include this extended community. |
| Effect | The Inclusive Multicast EVPN destination toward this peer is not installed (BUM traffic is not forwarded), and unicast MACs learned from this peer are programmed as blackhole. Aliasing next-hops belonging to this peer are excluded from any ES destination. |
| Raising event | N/A |
| Clearing event | N/A |

## 15.22 evpnNetworkInstanceNoL2AttributesCleared

*Table 355: evpnNetworkInstanceNoL2AttributesCleared properties*

| Property name | Value |
|---|---|
| Application name | evpn |
| Event name | evpnNetworkInstanceNoL2AttributesCleared |
| Default severity | notice |
| Message format string | BGP-EVPN Inclusive Multicast route received from originating IP *originating-ip-address* on network instance *network-instance* bgp instance *bgp-instance* now includes a Layer-2 Attributes extended community as expected |


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| Property name | Value |
|---|---|
| Cause | This event is generated when a peer that previously advertised an IMET route without a Layer-2 Attributes extended community has resumed including the community, as required by the local bgp-instance configuration (advertise-l2-attributes-extended-community= true). |
| Effect | If no other mismatch exists, the Inclusive Multicast EVPN destination toward this peer is reinstated. BUM traffic forwarding and unicast MAC programming toward this peer resume normally. |
| Raising event | N/A |
| Clearing event | N/A |

## 15.23 evpnVxlanAutoDiscoveryEviRouteWithdrawnDueToNextHopTypeMismatch

*Table 356: evpnVxlanAutoDiscoveryEviRouteWithdrawnDueToNextHopTypeMismatch properties*

| Property name | Value |
|---|---|
| Application name | evpn |
| Event name | evpnVxlanAutoDiscoveryEviRouteWithdrawnDueToNextHopType Mismatch |
| Default severity | warning |
| Message format string | BGP-EVPN Auto Discovery Evi route received with route-distinguisher *route-distinguisher* on network instance *network-instance*, bgp instance *bgp-instance*, ethernet segment identifier *ethernet-segment-id* and next-hop *next-hop* is withdrawn because the next-hop address type does not match the vxlan-interface egress source-ip address type used in the network-instance |
| Cause | This event is triggered when the next-hop type of a received Auto Discovery Evi route does not match the vxlan-interface egress source IP address type utilized in the network instance |
| Effect | The next-hop address is not programmed in the route table of the network instance |
| Raising event | N/A |
| Clearing event | N/A |


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## 15.24 evpnVxlanIpPrefixRouteWithdrawnDueToNextHopTypeMismatch

*Table 357: evpnVxlanIpPrefixRouteWithdrawnDueToNextHopTypeMismatch properties*

| Property name | Value |
|---|---|
| Application name | evpn |
| Event name | evpnVxlanIpPrefixRouteWithdrawnDueToNextHopTypeMismatch |
| Default severity | warning |
| Message format string | BGP-EVPN IP-PREFIX *ip-prefix* LENGTH *prefix-length* received with route-distinguisher *route-distinguisher* on network instance *network-instance*, bgp instance *bgp-instance* and next-hop *next-hop* is withdrawn because the next-hop address type does not match the vxlan-interface egress source-ip address type used in the network-instance |
| Cause | This event is triggered when the next-hop type of a received IP Prefix route does not match the vxlan-interface egress source IP address type utilized in the network instance |
| Effect | The ip-prefix is not programmed in the route table of the network instance |
| Raising event | N/A |
| Clearing event | N/A |

## 15.25 evpnVxlanMacIpRouteWithdrawnDueToNextHopTypeMismatch

*Table 358: evpnVxlanMacIpRouteWithdrawnDueToNextHopTypeMismatch properties*

| Property name | Value |
|---|---|
| Application name | evpn |
| Event name | evpnVxlanMacIpRouteWithdrawnDueToNextHopTypeMismatch |
| Default severity | warning |
| Message format string | BGP-EVPN MAC/IP route MAC *mac-address* IP *ip-address* received with route-distinguisher *route-distinguisher* on network instance *network-instance*, bgp instance *bgp-instance* and next-hop *next-hop* is withdrawn because the next-hop address type does not match the vxlan-interface egress source-ip address type used in the network-instance |


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| Property name | Value |
|---|---|
| Cause | This event is triggered when the next-hop type of a received MAC/IP route does not match the vxlan-interface egress source IP address type utilized in the network instance |
| Effect | The IP address is not programmed in the route table of the network instance |
| Raising event | N/A |
| Clearing event | N/A |


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# 16 fib

## 16.1 netInstanceRouteLimitAlarmClear

*Table 359: netInstanceRouteLimitAlarmClear properties*

| Property name | Value |
|---|---|
| Application name | fib |
| Event name | netInstanceRouteLimitAlarmClear |
| Default severity | warning |
| Message format string | Network-instance *network-instance* is no longer over *warning-threshold* percent of the configured route limit for *family* routes |
| Cause | This event is generated when the number of routes of a specific family has reduced to the configured maximum x the configured warning-threhsold-percent |
| Effect | None |
| Raising event | N/A |
| Clearing event | N/A |

## 16.2 netInstanceRouteLimitAlarmSet

*Table 360: netInstanceRouteLimitAlarmSet properties*

| Property name | Value |
|---|---|
| Application name | fib |
| Event name | netInstanceRouteLimitAlarmSet |
| Default severity | warning |
| Message format string | Network-instance *network-instance* has exceeded *warning-threshold* percent of the configured route limit for *family* routes |
| Cause | This event is generated when the number of routes of a specific family has exceeded the configured maximum x the configured warning-threhsold-percent |


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| Property name | Value |
|---|---|
| Effect | When the maximum is reached additional routes may be blocked from installation into the FIB |
| Raising event | N/A |
| Clearing event | N/A |


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# 17 gnsi

## 17.1 gnsiAcctzSubscriptionEnd

*Table 361: gnsiAcctzSubscriptionEnd properties*

| Property name | Value |
|---|---|
| Application name | gnsi |
| Event name | gnsiAcctzSubscriptionEnd |
| Default severity | informational |
| Message format string | Acctz subscription with starting point '*timestamp*' requested by *peer_address*:*peer_port* has finished. |
| Cause | Acctz subscription has finished based on the request from mentioned peer. |
| Effect | none. |
| Raising event | N/A |
| Clearing event | N/A |

## 17.2 gnsiAcctzSubscriptionRequestReceived

*Table 362: gnsiAcctzSubscriptionRequestReceived properties*

| Property name | Value |
|---|---|
| Application name | gnsi |
| Event name | gnsiAcctzSubscriptionRequestReceived |
| Default severity | informational |
| Message format string | Acctz subscription request from peer *peer_address*:*peer_port* is received. |
| Cause | Acctz has received subscription request is received from the mentioned peer. |
| Effect | Server will process the request. |


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| Property name | Value |
|---|---|
| Raising event | N/A |
| Clearing event | N/A |

## 17.3 gnsiAcctzSubscriptionStart

*Table 363: gnsiAcctzSubscriptionStart properties*

| Property name | Value |
|---|---|
| Application name | gnsi |
| Event name | gnsiAcctzSubscriptionStart |
| Default severity | informational |
| Message format string | Acctz subscription with starting timestamp '*timestamp*' requested by *peer_address*:*peer_port* has started. |
| Cause | Acctz subscription has started based on the request from mentioned peer. |
| Effect | none. |
| Raising event | N/A |
| Clearing event | N/A |

## 17.4 gnsiAuthzPolicyFinalized

*Table 364: gnsiAuthzPolicyFinalized properties*

| Property name | Value |
|---|---|
| Application name | gnsi |
| Event name | gnsiAuthzPolicyFinalized |
| Default severity | informational |
| Message format string | Authz gRPC authorization policy has been finalized on version *version* created on *created_on* |
| Cause | Authz has received a request to rotate the gRPC authorization policy, and a subsequent request to finalize it. |


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| Property name | Value |
|---|---|
| Effect | Requests to all gRPC servers on the system will authorize using the new policy. Reboots of the system will use the new policy rather than reverting to the previous. |
| Raising event | N/A |
| Clearing event | N/A |

## 17.5 gnsiAuthzPolicyInvalid

*Table 365: gnsiAuthzPolicyInvalid properties*

| Property name | Value |
|---|---|
| Application name | gnsi |
| Event name | gnsiAuthzPolicyInvalid |
| Default severity | critical |
| Message format string | Authz gRPC authorization policy with version *version* created on *created_on* failed to validate - policy content invalid. Previous policy remains active. |
| Cause | Authz has received a request to rotate the gRPC authorization policy, with policy content that is invalid. |
| Effect | Requests to all gRPC servers on the system will authorize using the previous policy. |
| Raising event | N/A |
| Clearing event | N/A |

## 17.6 gnsiAuthzPolicyNotFinalized

*Table 366: gnsiAuthzPolicyNotFinalized properties*

| Property name | Value |
|---|---|
| Application name | gnsi |
| Event name | gnsiAuthzPolicyNotFinalized |
| Default severity | critical |


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| Property name | Value |
|---|---|
| Message format string | Authz gRPC authorization policy with version *version* created on *created_on* was not finalized by client. Reverting to previous policy. |
| Cause | Authz has received a request to rotate the gRPC authorization policy, but did not received a subsequent finalization before the RPC was terminated. |
| Effect | Requests to all gRPC servers on the system will authorize using the previous policy. |
| Raising event | N/A |
| Clearing event | N/A |

## 17.7 gnsiAuthzPolicyRotate

*Table 367: gnsiAuthzPolicyRotate properties*

| Property name | Value |
|---|---|
| Application name | gnsi |
| Event name | gnsiAuthzPolicyRotate |
| Default severity | informational |
| Message format string | Authz gRPC authorization policy has been rotated to version *version* created on *created_on* |
| Cause | gNSI server has received a request to rotate the gRPC authorization policy. |
| Effect | Requests to all gRPC servers on the system will authorize using the new policy. If a request is not recieved to finalize the rotation, the system will revert to the previous policy. |
| Raising event | N/A |
| Clearing event | N/A |

## 17.8 gnsiCertzRotate

*Table 368: gnsiCertzRotate properties*

| Property name | Value |
|---|---|
| Application name | gnsi |


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| Property name | Value |
|---|---|
| Event name | gnsiCertzRotate |
| Default severity | informational |
| Message format string | Certz *artifact_type* has been rotated to version *version* created on *created_on* |
| Cause | Certz has received a request to rotate the specified certificate or bundle. |
| Effect | All gRPC servers without explicitly configured TLS profiles will use the certificate and bundles provided. If a request is not received to finalize the rotation, the system will revert to the previous certificate and/or bundle/s. |
| Raising event | N/A |
| Clearing event | N/A |

## 17.9 gnsiCertzRotateFinalized

*Table 369: gnsiCertzRotateFinalized properties*

| Property name | Value |
|---|---|
| Application name | gnsi |
| Event name | gnsiCertzRotateFinalized |
| Default severity | informational |
| Message format string | Certz *artifact_type* has been finalized on version *version* created on *created_on* |
| Cause | Certz has received a request to rotate the certificate and/or bundle/s, and a subsequent request to finalize it. |
| Effect | All gRPC servers without explicitly configured TLS profiles will use the certificate and/or bundle/s provided. Reboots of the system will use the profile rather than reverting to the previous. |
| Raising event | N/A |
| Clearing event | N/A |


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## 17.10 gnsiCertzRotateInvalid

*Table 370: gnsiCertzRotateInvalid properties*

| Property name | Value |
|---|---|
| Application name | gnsi |
| Event name | gnsiCertzRotateInvalid |
| Default severity | critical |
| Message format string | Certz *artifact_type* with version *version* created on *created_on* failed to rotate. Previous *artifact_type* remains active. Error: *error* |
| Cause | Certz has received a request to rotate a certificate and/or bundle/s, but the RPC has failed with the provided error. |
| Effect | All gRPC servers without explicitly configured TLS profiles will revert to using the previous certificate and/or bundle/s provided. |
| Raising event | N/A |
| Clearing event | N/A |

## 17.11 gnsiCertzRotateNotFinalized

*Table 371: gnsiCertzRotateNotFinalized properties*

| Property name | Value |
|---|---|
| Application name | gnsi |
| Event name | gnsiCertzRotateNotFinalized |
| Default severity | critical |
| Message format string | Certz *artifact_type* with version *version* created on *created_on* was not finalized by client. Reverting to previous. |
| Cause | Certz has received a request to rotate the a certificate and/or bundle/s, but did not received a subsequent finalization before the RPC was terminated. |
| Effect | All gRPC servers without explicitly configured TLS profiles will revert to using the previous certificate and/or bundle/s provided. |
| Raising event | N/A |
| Clearing event | N/A |


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## 17.12 gnsiCredentialzRotateAccountCredentials

*Table 372: gnsiCredentialzRotateAccountCredentials properties*

| Property name | Value |
|---|---|
| Application name | gnsi |
| Event name | gnsiCredentialzRotateAccountCredentials |
| Default severity | informational |
| Message format string | Credentialz *artifact_type* for user *username* has been rotated to version *version* created on *created_on* |
| Cause | Credentialz has received a request to rotate the specified aaa user credentials. |
| Effect | System will use the aaa user credentials provided. If a request is not received to finalize the rotation, the system will revert to the previous aaa user credentials. |
| Raising event | N/A |
| Clearing event | N/A |

## 17.13 gnsiCredentialzRotateAccountCredentialsFinalized

*Table 373: gnsiCredentialzRotateAccountCredentialsFinalized properties*

| Property name | Value |
|---|---|
| Application name | gnsi |
| Event name | gnsiCredentialzRotateAccountCredentialsFinalized |
| Default severity | informational |
| Message format string | Credentialz *artifact_type* for user *username* has been finalized on version *version* created on *created_on* |
| Cause | Credentialz has received a request to rotate aaa user credentials, and a subsequent request to finalize it. |
| Effect | System will use the aaa user credentials provided. Reboots of the system will use the aaa user credentials rather than reverting to the previous. |
| Raising event | N/A |


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| Property name | Value |
|---|---|
| Clearing event | N/A |

## 17.14 gnsiCredentialzRotateAccountCredentialsInvalid

*Table 374: gnsiCredentialzRotateAccountCredentialsInvalid properties*

| Property name | Value |
|---|---|
| Application name | gnsi |
| Event name | gnsiCredentialzRotateAccountCredentialsInvalid |
| Default severity | critical |
| Message format string | Credentialz *artifact_type* for user *username* with version *version* created on *created_on* failed to rotate. Previous *artifact_type* remains active. Error: *error* |
| Cause | Credentialz has received a request to rotate aaa user credentials, but the RPC has failed with the provided error. |
| Effect | System will revert to using the previous aaa user credentials provided. |
| Raising event | N/A |
| Clearing event | N/A |

## 17.15 gnsiCredentialzRotateAccountCredentialsNotFinalized

*Table 375: gnsiCredentialzRotateAccountCredentialsNotFinalized properties*

| Property name | Value |
|---|---|
| Application name | gnsi |
| Event name | gnsiCredentialzRotateAccountCredentialsNotFinalized |
| Default severity | critical |
| Message format string | Credentialz *artifact_type* for user *username* with version *version* created on *created_on* was not finalized by client. Reverting to previous. |
| Cause | Credentialz has received a request to rotate aaa user credentials, but did not received a subsequent finalization before the RPC was terminated. |


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| Property name | Value |
|---|---|
| Effect | System will revert to using the previous aaa user credentials provided. |
| Raising event | N/A |
| Clearing event | N/A |

## 17.16 gnsiCredentialzRotateHostParameters

*Table 376: gnsiCredentialzRotateHostParameters properties*

| Property name | Value |
|---|---|
| Application name | gnsi |
| Event name | gnsiCredentialzRotateHostParameters |
| Default severity | informational |
| Message format string | Credentialz *artifact_type* has been rotated to version *version* created on *created_on* |
| Cause | Credentialz has received a request to rotate the specified ssh host parameters. |
| Effect | All ssh servers will use the ssh host parameters provided. If a request is not received to finalize the rotation, the system will revert to the previous ssh host parameters. |
| Raising event | N/A |
| Clearing event | N/A |

## 17.17 gnsiCredentialzRotateHostParametersFinalized

*Table 377: gnsiCredentialzRotateHostParametersFinalized properties*

| Property name | Value |
|---|---|
| Application name | gnsi |
| Event name | gnsiCredentialzRotateHostParametersFinalized |
| Default severity | informational |
| Message format string | Credentialz *artifact_type* has been finalized on version *version* created on *created_on* |


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| Property name | Value |
|---|---|
| Cause | Credentialz has received a request to rotate ssh host parameters, and a subsequent request to finalize it. |
| Effect | All ssh servers will use the ssh host parameters provided. Reboots of the system will use the ssh host parameters rather than reverting to the previous. |
| Raising event | N/A |
| Clearing event | N/A |

## 17.18 gnsiCredentialzRotateHostParametersInvalid

*Table 378: gnsiCredentialzRotateHostParametersInvalid properties*

| Property name | Value |
|---|---|
| Application name | gnsi |
| Event name | gnsiCredentialzRotateHostParametersInvalid |
| Default severity | critical |
| Message format string | Credentialz *artifact_type* with version *version* created on *created_on* failed to rotate. Previous *artifact_type* remains active. Error: *error* |
| Cause | Credentialz has received a request to rotate ssh host parameters, but the RPC has failed with the provided error. |
| Effect | All ssh servers will revert to using the previous ssh host parameters provided. |
| Raising event | N/A |
| Clearing event | N/A |

## 17.19 gnsiCredentialzRotateHostParametersNotFinalized

*Table 379: gnsiCredentialzRotateHostParametersNotFinalized properties*

| Property name | Value |
|---|---|
| Application name | gnsi |
| Event name | gnsiCredentialzRotateHostParametersNotFinalized |
| Default severity | critical |


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| Property name | Value |
|---|---|
| Message format string | Credentialz *artifact_type* with version *version* created on *created_on* was not finalized by client. Reverting to previous. |
| Cause | Credentialz has received a request to rotate ssh host parameters, but did not received a subsequent finalization before the RPC was terminated. |
| Effect | All ssh servers will revert to using the previous ssh host parameters provided. |
| Raising event | N/A |
| Clearing event | N/A |

## 17.20 gnsiPathzPolicyFinalized

*Table 380: gnsiPathzPolicyFinalized properties*

| Property name | Value |
|---|---|
| Application name | gnsi |
| Event name | gnsiPathzPolicyFinalized |
| Default severity | informational |
| Message format string | Pathz gRPC authorization policy has been finalized on version *version* created on *created_on* |
| Cause | Pathz has received a request to rotate the gRPC authorization policy, and a subsequent request to finalize it. |
| Effect | Requests to all gRPC servers on the system will authorize using the new policy. Reboots of the system will use the new policy rather than reverting to the previous. |
| Raising event | N/A |
| Clearing event | N/A |

## 17.21 gnsiPathzPolicyInvalid

*Table 381: gnsiPathzPolicyInvalid properties*

| Property name | Value |
|---|---|
| Application name | gnsi |


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| Property name | Value |
|---|---|
| Event name | gnsiPathzPolicyInvalid |
| Default severity | critical |
| Message format string | Pathz gRPC authorization policy with version *version* created on *created_on* failed to validate - policy content invalid. Previous policy remains active. |
| Cause | Pathz has received a request to rotate the gRPC authorization policy, with policy content that is invalid. |
| Effect | Requests to all gRPC servers on the system will authorize using the previous policy. |
| Raising event | N/A |
| Clearing event | N/A |

## 17.22 gnsiPathzPolicyNotFinalized

*Table 382: gnsiPathzPolicyNotFinalized properties*

| Property name | Value |
|---|---|
| Application name | gnsi |
| Event name | gnsiPathzPolicyNotFinalized |
| Default severity | critical |
| Message format string | Pathz gRPC authorization policy with version *version* created on *created_on* was not finalized by client. Reverting to previous policy. |
| Cause | Pathz has received a request to rotate the gRPC authorization policy, but did not received a subsequent finalization before the RPC was terminated. |
| Effect | Requests to all gRPC servers on the system will authorize using the previous policy. |
| Raising event | N/A |
| Clearing event | N/A |


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## 17.23 gnsiPathzPolicyRotate

*Table 383: gnsiPathzPolicyRotate properties*

| Property name | Value |
|---|---|
| Application name | gnsi |
| Event name | gnsiPathzPolicyRotate |
| Default severity | informational |
| Message format string | Pathz gRPC authorization policy has been rotated to version *version* created on *created_on* |
| Cause | gNSI server has received a request to rotate the gRPC authorization policy. |
| Effect | Requests to all gRPC servers on the system will authorize using the new policy. If a request is not recieved to finalize the rotation, the system will revert to the previous policy. |
| Raising event | N/A |
| Clearing event | N/A |


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# 18 grpc

## 18.1 configUpdate

*Table 384: configUpdate properties*

| Property name | Value |
|---|---|
| Application name | grpc |
| Event name | configUpdate |
| Default severity | informational |
| Message format string | gRPC server *name* configuration updated. |
| Cause | A configuration change has been made in the mentioned grpc server, resulting in gRPC server configuration being regenerated. |
| Effect | May result in gRPC server start or stop depending on the configuration change. |
| Raising event | N/A |
| Clearing event | N/A |

## 18.2 grpcServerStart

*Table 385: grpcServerStart properties*

| Property name | Value |
|---|---|
| Application name | grpc |
| Event name | grpcServerStart |
| Default severity | informational |
| Message format string | gRPC server *name* started for network instance *network_instance* source address *source_address* port number *grpc_socket*. |
| Cause | gRPC server has started for the mentioned network instance, source address and port number. |
| Effect | gRPC server is ready to receive and process requests for the mentioned network instance, source address and port number. |


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| Property name | Value |
|---|---|
| Raising event | N/A |
| Clearing event | N/A |

## 18.3 grpcServerStop

*Table 386: grpcServerStop properties*

| Property name | Value |
|---|---|
| Application name | grpc |
| Event name | grpcServerStop |
| Default severity | informational |
| Message format string | gRPC server *name* stopped for network *network_instance* source address *source_address* port number *grpc_socket*. |
| Cause | gRPC server has stopped for the mentioned network instance, source address and port number. |
| Effect | gRPC server is not ready to receive and process requests for the mentioned network instance, source address and port number. |
| Raising event | N/A |
| Clearing event | N/A |

## 18.4 subscriptionEnd

*Table 387: subscriptionEnd properties*

| Property name | Value |
|---|---|
| Application name | grpc |
| Event name | subscriptionEnd |
| Default severity | informational |
| Message format string | Subscription for path(s) *paths* requested by *peer_address*:*socket* has finished. |
| Cause | A subscription has finished based on the request from mentioned peer. |
| Effect | none. |


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| Property name | Value |
|---|---|
| Raising event | N/A |
| Clearing event | N/A |

## 18.5 subscriptionRequestReceived

*Table 388: subscriptionRequestReceived properties*

| Property name | Value |
|---|---|
| Application name | grpc |
| Event name | subscriptionRequestReceived |
| Default severity | informational |
| Message format string | Subscription request from peer *peer_address*:*socket* is received. |
| Cause | A subscription request is received from the mentioned peer. |
| Effect | gRPC server will process the request. |
| Raising event | N/A |
| Clearing event | N/A |

## 18.6 subscriptionStart

*Table 389: subscriptionStart properties*

| Property name | Value |
|---|---|
| Application name | grpc |
| Event name | subscriptionStart |
| Default severity | informational |
| Message format string | Subscription for path(s) *paths* requested by *peer_address*:*socket* has started. |
| Cause | A subscription has started based on the request from mentioned peer. |
| Effect | none. |
| Raising event | N/A |


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| Property name | Value |
|---|---|
| Clearing event | N/A |

## 18.7 unixSocketGrpcOperDown

*Table 390: unixSocketGrpcOperDown properties*

| Property name | Value |
|---|---|
| Application name | grpc |
| Event name | unixSocketGrpcOperDown |
| Default severity | critical |
| Message format string | Unix domain socket of gRPC server *name* is no longer operational. |
| Cause | The Unix domain socket of gRPC server has transitioned from any other operational state to the down state. |
| Effect | Unix domain socket of gRPC server is now down. |
| Raising event | N/A |
| Clearing event | N/A |

## 18.8 unixSocketGrpcOperUp

*Table 391: unixSocketGrpcOperUp properties*

| Property name | Value |
|---|---|
| Application name | grpc |
| Event name | unixSocketGrpcOperUp |
| Default severity | warning |
| Message format string | Unix domain socket of gRPC server *name* is operational. |
| Cause | The Unix domain socket of gRPC server has transitioned from any other operational state to the up state. |
| Effect | Unix domain socket of gRPC server is now up. |
| Raising event | N/A |
| Clearing event | N/A |


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# 19 igmp

## 19.1 igmpCModeRxQueryVersionMismatch

*Table 392: igmpCModeRxQueryVersionMismatch properties*

| Property name | Value |
|---|---|
| Application name | igmp |
| Event name | igmpCModeRxQueryVersionMismatch |
| Default severity | warning |
| Message format string | Network-instance *network_instance* - Mismatch between the interface *subinterface* compatible mode( *igmpInterfaceOperVersion*) and the version of the IGMP query (version *igmpQuerierVersion*) received on the interface. |
| Cause | This event is generated when the IGMP interface receives a query with a version that is higher than the interface's compatible mode. |
| Effect | IGMP interfaces will ignore any Queries with a version higher than the interface's compatibility mode. |
| Raising event | N/A |
| Clearing event | N/A |

## 19.2 igmpMaxNumberOfGroupSourcesReached

*Table 393: igmpMaxNumberOfGroupSourcesReached properties*

| Property name | Value |
|---|---|
| Application name | igmp |
| Event name | igmpMaxNumberOfGroupSourcesReached |
| Default severity | warning |
| Message format string | Network-instance *network_instance* - The number of group/source combinations learned on interface *subinterface* has exceeded the maximum limit of *igmpInterfaceMaxGroupSources*. |


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| Property name | Value |
|---|---|
| Cause | This event is generated when an attempt is made to learn a source when the number of group/source combinations on the IGMP interface is equal to the maximum number of group-sources configured on the interface. |
| Effect | IGMP interfaces will not learn any new sources for a given group when the configured maximum number of group-sources has been reached. |
| Raising event | N/A |
| Clearing event | N/A |

## 19.3 igmpMaxNumberOfGroupsReached

*Table 394: igmpMaxNumberOfGroupsReached properties*

| Property name | Value |
|---|---|
| Application name | igmp |
| Event name | igmpMaxNumberOfGroupsReached |
| Default severity | warning |
| Message format string | Network-instance *network_instance* - The number of groups learned on interface *subinterface* has exceeded the maximum limit of *igmp InterfaceMaxGroups*. |
| Cause | This event is generated when an attempt is made to learn a group when the number of groups on the IGMP interface is equal to the maximum number of groups configured on the interface. |
| Effect | IGMP interfaces will not learn any new groups when the configured maximum number of groups has been reached. |
| Raising event | N/A |
| Clearing event | N/A |

## 19.4 igmpMaxNumberOfSourcesReached

*Table 395: igmpMaxNumberOfSourcesReached properties*

| Property name | Value |
|---|---|
| Application name | igmp |


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| Property name | Value |
|---|---|
| Event name | igmpMaxNumberOfSourcesReached |
| Default severity | warning |
| Message format string | Network-instance *network_instance* - The number of sources learned on interface *subinterface* has exceeded the maximum limit of *igmp InterfaceMaxSources*. |
| Cause | This event is generated when an attempt is made to learn a source when the number of sources for this group on the IGMP interface is equal to the maximum number of sources per group configured on the interface. |
| Effect | IGMP interfaces will not learn any new sources for a given group when the configured maximum number of sources for the group has been reached. |
| Raising event | N/A |
| Clearing event | N/A |

## 19.5 igmpRxQueryVersionMismatch

*Table 396: igmpRxQueryVersionMismatch properties*

| Property name | Value |
|---|---|
| Application name | igmp |
| Event name | igmpRxQueryVersionMismatch |
| Default severity | warning |
| Message format string | Network-instance *network_instance* - IGMPv*igmpQuerierVersion* query received on interface *subinterface* configured as IGMPv*igmpInterface AdminVersion*. |
| Cause | This event is generated when the IGMP interface is configured as IGMPv3 and receives an IGMPv1 Query or IGMPv2 General Query. |
| Effect | IGMP interfaces configured as IGMPv3 will ignore IGMPv1 and IGMPv2 General Queries. |
| Raising event | N/A |
| Clearing event | N/A |


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# 20 isis

## 20.1 isisAdjacencyBfdSessionSetupFailed

*Table 397: isisAdjacencyBfdSessionSetupFailed properties*

| Property name | Value |
|---|---|
| Application name | isis |
| Event name | isisAdjacencyBfdSessionSetupFailed |
| Default severity | warning |
| Message format string | In network-instance *network_instance*, BFD session setup failed for the *level* IS-IS adjacency with system *sys_id*, using interface *subinterface*. Failure reason: *bfd_failure_reason*. |
| Cause | This event is generated when BFD session setup fails with an adjacent neighbor. |
| Effect | Fast failure detection may not be possible. |
| Raising event | N/A |
| Clearing event | N/A |

## 20.2 isisAdjacencyChange

*Table 398: isisAdjacencyChange properties*

| Property name | Value |
|---|---|
| Application name | isis |
| Event name | isisAdjacencyChange |
| Default severity | warning |
| Message format string | In network-instance *network_instance*, the *level* IS-IS adjacency with system *sys_id*, using interface *subinterface*, moved to state *adj_state*. |
| Cause | This event is generated when an IS-IS adjacency enters or leaves the up state. |
| Effect | IS-IS traffic can only be forwarded along adjacencies that are up. |


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| Property name | Value |
|---|---|
| Raising event | N/A |
| Clearing event | N/A |

## 20.3 isisAdjacencyRestartStatusChange

*Table 399: isisAdjacencyRestartStatusChange properties*

| Property name | Value |
|---|---|
| Application name | isis |
| Event name | isisAdjacencyRestartStatusChange |
| Default severity | warning |
| Message format string | In network-instance *network_instance*, the graceful restart status for the *level* IS-IS adjacency on interface *subinterface* moved to new state *restart_status*. |
| Cause | This event is generated when the graceful restart status of a neighbor changes. |
| Effect | None |
| Raising event | N/A |
| Clearing event | N/A |

## 20.4 isisAreaMismatch

*Table 400: isisAreaMismatch properties*

| Property name | Value |
|---|---|
| Application name | isis |
| Event name | isisAreaMismatch |
| Default severity | warning |
| Message format string | In network-instance *network_instance*, a level1 PDU was received on interface *subinterface* with no Area Addresses matching the areas to which this IS router belongs. The PDU starts with: *pdu_fragment* |
| Cause | This event is generated to alert of a possible area-id misconfiguration inside a L1 area. |


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| Property name | Value |
|---|---|
| Effect | L1 adjacency cannot form |
| Raising event | N/A |
| Clearing event | N/A |

## 20.5 isisAuthDataFail

*Table 401: isisAuthDataFail properties*

| Property name | Value |
|---|---|
| Application name | isis |
| Event name | isisAuthDataFail |
| Default severity | warning |
| Message format string | In network-instance *network_instance*, a *level* PDU was received on interface *subinterface* with unexpected or incorrect data in the Authentication TLV. The PDU starts with: *pdu_fragment* |
| Cause | This event could be caused by incorrect keychain configuration in this router or its neighbor. |
| Effect | PDUs are dropped, with the effect depending on the PDU type |
| Raising event | N/A |
| Clearing event | N/A |

## 20.6 isisAuthTypeMismatch

*Table 402: isisAuthTypeMismatch properties*

| Property name | Value |
|---|---|
| Application name | isis |
| Event name | isisAuthTypeMismatch |
| Default severity | warning |
| Message format string | In network-instance *network_instance*, a *level* PDU was received on interface *subinterface* with an unrecognized or unsupported authentication type in TLV 10. The PDU starts with: *pdu_fragment* |


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| Property name | Value |
|---|---|
| Cause | This event could be caused by incorrect keychain configuration in this router or its neighbor. |
| Effect | PDUs are dropped, with the effect depending on the PDU type |
| Raising event | N/A |
| Clearing event | N/A |

## 20.7 isisCircuitIdsExhausted

*Table 403: isisCircuitIdsExhausted properties*

| Property name | Value |
|---|---|
| Application name | isis |
| Event name | isisCircuitIdsExhausted |
| Default severity | warning |
| Message format string | In network-instance *network_instance*, the IS-IS interface *subinterface* is operationally down because the limit of 255 circuit IDs available to LAN interfaces was reached. |
| Cause | This event is caused by having too many LAN interfaces. |
| Effect | LAN adjacencies are not formed |
| Raising event | N/A |
| Clearing event | N/A |

## 20.8 isisCircuitMtuTooLow

*Table 404: isisCircuitMtuTooLow properties*

| Property name | Value |
|---|---|
| Application name | isis |
| Event name | isisCircuitMtuTooLow |
| Default severity | warning |
| Message format string | In network-instance *network_instance*, a *level* LSP PDU or SNP PDU could not be transmitted on interface *subinterface* because the IP MTU |


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| Property name | Value |
|---|---|
| | is only *operational_subif_mtu* and an MTU of at least *required_mtu* is required. |
| Cause | The port MTU is too small and/or the lsp-mtu-size is too large. |
| Effect | PDUs are dropped |
| Raising event | N/A |
| Clearing event | N/A |

## 20.9 isisCorruptedLspDetected

*Table 405: isisCorruptedLspDetected properties*

| Property name | Value |
|---|---|
| Application name | isis |
| Event name | isisCorruptedLspDetected |
| Default severity | warning |
| Message format string | In network-instance *network_instance*, the LSP PDU with ID *lsp_id* in the *level* database has become corrupted. |
| Cause | Memory corruption or other. |
| Effect | LSP is removed |
| Raising event | N/A |
| Clearing event | N/A |

## 20.10 isisLdpSyncExited

*Table 406: isisLdpSyncExited properties*

| Property name | Value |
|---|---|
| Application name | isis |
| Event name | isisLdpSyncExited |
| Default severity | warning |


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| Property name | Value |
|---|---|
| Message format string | In network-instance *network_instance*, the LDP synchronization state has ended on IS-IS interface *subinterface*, and now the state is *sync_state* |
| Cause | The LDP synchronization timer can be stopped because of a tools command, hold-down timer expiry or indication from the LDP peer that End-of-LIB has been received. When LDP sync is exited IS-IS resumes advertising a normal metric for the interface. |
| Effect | Transit traffic can start using this interface again. |
| Raising event | N/A |
| Clearing event | N/A |

## 20.11 isisLdpSyncTimerStarted

*Table 407: isisLdpSyncTimerStarted properties*

| Property name | Value |
|---|---|
| Application name | isis |
| Event name | isisLdpSyncTimerStarted |
| Default severity | warning |
| Message format string | In network-instance *network_instance*, the LDP synchronization timer has started on IS-IS interface *subinterface* |
| Cause | The sync timer is started when LDP synchronization is configured and the LDP adjacency comes up with the LDP peer. When this timer expires IS-IS will resume advertisement of a normal metric for the interface. |
| Effect | Transit traffic will continue to avoid using this interface. |
| Raising event | N/A |
| Clearing event | N/A |


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## 20.12 isisLspFragmentTooLarge

*Table 408: isisLspFragmentTooLarge properties*

| Property name | Value |
|---|---|
| Application name | isis |
| Event name | isisLspFragmentTooLarge |
| Default severity | warning |
| Message format string | In network-instance *network_instance*, the *level* LSP PDU fragment *lsp_id* received on interface *subinterface* could not be accepted because the configured LSP MTU size is too small. An LSP MTU size of at least *required_lsp_mtu* bytes is required. |
| Cause | Misconfiguration of LSP MTU size |
| Effect | LSP PDU is not accepted |
| Raising event | N/A |
| Clearing event | N/A |

## 20.13 isisLspPurge

*Table 409: isisLspPurge properties*

| Property name | Value |
|---|---|
| Application name | isis |
| Event name | isisLspPurge |
| Default severity | warning |
| Message format string | In network-instance *network_instance*, the LSP PDU with ID *lsp_id* in the *level* database has been purged by *purge_originator*. |
| Cause | LSP lifetime expired or other reason |
| Effect | The PDU is removed |
| Raising event | N/A |
| Clearing event | N/A |


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## 20.14 isisLspSequenceNumberSkip

*Table 410: isisLspSequenceNumberSkip properties*

| Property name | Value |
|---|---|
| Application name | isis |
| Event name | isisLspSequenceNumberSkip |
| Default severity | warning |
| Message format string | In network-instance *network_instance*, the LSP with id *lsp_id* in the *level* database was re-originated with a sequence number that incremented by more than one. |
| Cause | There may be another IS router configured with the same system ID. |
| Effect | None |
| Raising event | N/A |
| Clearing event | N/A |

## 20.15 isisMaxAreaAddressesMismatch

*Table 411: isisMaxAreaAddressesMismatch properties*

| Property name | Value |
|---|---|
| Application name | isis |
| Event name | isisMaxAreaAddressesMismatch |
| Default severity | warning |
| Message format string | In network-instance *network_instance*, a *level* PDU was received on interface *subinterface* with an unexpected Max Area Addresses value in the IS-IS PDU header. The PDU starts with: *pdu_fragment* |
| Cause | Misconfiguration of max area addresses in the neighbor |
| Effect | The PDU is dropped |
| Raising event | N/A |
| Clearing event | N/A |


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## 20.16 isisMaxLspSequenceNumberExceeded

*Table 412: isisMaxLspSequenceNumberExceeded properties*

| Property name | Value |
|---|---|
| Application name | isis |
| Event name | isisMaxLspSequenceNumberExceeded |
| Default severity | warning |
| Message format string | In network-instance *network_instance*, the LSP with id *lsp_id* in the *level* database was purged because the sequence number was already at its maximum value and could not be incremented. |
| Cause | A possible cause could be that the same system-id is configured on multiple systems; when 2 systems have the same system-id they both keep incrementing the LSP sequence number, causing the sequence counter to rollover. |
| Effect | The PDU is purged and reachability may be temporarily lost |
| Raising event | N/A |
| Clearing event | N/A |

## 20.17 isisMultiPartTlvReceived

*Table 413: isisMultiPartTlvReceived properties*

| Property name | Value |
|---|---|
| Application name | isis |
| Event name | isisMultiPartTlvReceived |
| Default severity | warning |
| Message format string | In level *level_number* of ISIS instance *isis_instance* on network instance *network_instance*, the router received a multi part TLV type *tlv_type* from system-id *isis_system_id* with system-name *isis_system_id_string* which is omitted. |
| Cause | This notification is generated when ISIS received a multi-part TLV while it is disabled. |
| Effect | None |
| Raising event | N/A |


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| Property name | Value |
|---|---|
| Clearing event | N/A |

## 20.18 isisMultiPartTlvTruncated

*Table 414: isisMultiPartTlvTruncated properties*

| Property name | Value |
|---|---|
| Application name | isis |
| Event name | isisMultiPartTlvTruncated |
| Default severity | warning |
| Message format string | In level *level_number* of ISIS instance *isis_instance* on networkâ €‘instance *network_instance*, the router truncated a multiâ€‘part TLV. TLV type *tlv_type* was truncated *mp_tlv_truncated* time(s). |
| Cause | This notification is generated when ISIS truncates a TLV while multi-part TLV is disabled. |
| Effect | None |
| Raising event | N/A |
| Clearing event | N/A |

## 20.19 isisOverloadEntry

*Table 415: isisOverloadEntry properties*

| Property name | Value |
|---|---|
| Application name | isis |
| Event name | isisOverloadEntry |
| Default severity | warning |
| Message format string | In the IS-IS instance of network-instance *network_instance*, the *level* database has entered the overload state. |
| Cause | Overload bit configuration |
| Effect | No transit traffic is routed through the overloaded router. |
| Raising event | N/A |


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| Property name | Value |
|---|---|
| Clearing event | N/A |

## 20.20 isisOverloadExit

*Table 416: isisOverloadExit properties*

| Property name | Value |
|---|---|
| Application name | isis |
| Event name | isisOverloadExit |
| Default severity | warning |
| Message format string | In the IS-IS instance of network-instance *network_instance*, the *level* database has exited from the overload state. |
| Cause | Overload bit configuration |
| Effect | Transit traffic can again be routed through the router. |
| Raising event | N/A |
| Clearing event | N/A |

## 20.21 isisOwnLspPurge

*Table 417: isisOwnLspPurge properties*

| Property name | Value |
|---|---|
| Application name | isis |
| Event name | isisOwnLspPurge |
| Default severity | warning |
| Message format string | In network-instance *network_instance*, a *level* LSP PDU was received with the system ID of this IS router and age equal to zero. The purge originator was *purge_originator*. |
| Cause | LSP lifetime expired or other reason |
| Effect | The PDU is removed |
| Raising event | N/A |


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| Property name | Value |
|---|---|
| Clearing event | N/A |

## 20.22 isisSystemIdLengthMismatch

*Table 418: isisSystemIdLengthMismatch properties*

| Property name | Value |
|---|---|
| Application name | isis |
| Event name | isisSystemIdLengthMismatch |
| Default severity | warning |
| Message format string | In network-instance *network_instance*, a *level* PDU was received on interface *subinterface* with an unexpected System ID length in the IS-IS PDU header. The PDU starts with: *pdu_fragment* |
| Cause | Misconfiguration of system ID length in the neighbor |
| Effect | The PDU is dropped |
| Raising event | N/A |
| Clearing event | N/A |

## 20.23 isisVersionMismatch

*Table 419: isisVersionMismatch properties*

| Property name | Value |
|---|---|
| Application name | isis |
| Event name | isisVersionMismatch |
| Default severity | warning |
| Message format string | In network-instance *network_instance*, a *level* PDU was received on interface *subinterface* with an IS-IS protocol version not matching the expected value. The PDU starts with: *pdu_fragment* |
| Cause | Unsupported IS-IS version |
| Effect | PDUs cannot be exchanged |
| Raising event | N/A |


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| Property name | Value |
| --- | --- |
| Clearing event | N/A |


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# 21 json

## 21.1 authenticationError

*Table 420: authenticationError properties*

| Property name | Value |
|---|---|
| Application name | json |
| Event name | authenticationError |
| Default severity | informational |
| Message format string | No valid spiffe-id or username/password received, authentication needed |
| Cause | A user has failed to authenticate. |
| Effect | That user can't establish a configuration session. |
| Raising event | N/A |
| Clearing event | N/A |

## 21.2 authenticationErrorSpiffe

*Table 421: authenticationErrorSpiffe properties*

| Property name | Value |
|---|---|
| Application name | json |
| Event name | authenticationErrorSpiffe |
| Default severity | informational |
| Message format string | No valid spiffe-id received, username/password authentication disabled |
| Cause | A user has failed to authenticate. |
| Effect | That user can't establish a configuration session. |
| Raising event | N/A |
| Clearing event | N/A |


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## 21.3 globalConfigUpdate

*Table 422: globalConfigUpdate properties*

| Property name | Value |
|---|---|
| Application name | json |
| Event name | globalConfigUpdate |
| Default severity | informational |
| Message format string | JSON RPC server global configuration updated. |
| Cause | A global configuration change has been made, resulting in json rpc configuration being regenerated. |
| Effect | May result in json rpc process(es) start or stop depending on the configuration change. |
| Raising event | N/A |
| Clearing event | N/A |

## 21.4 httpJsonRpcOperDown

*Table 423: httpJsonRpcOperDown properties*

| Property name | Value |
|---|---|
| Application name | json |
| Event name | httpJsonRpcOperDown |
| Default severity | critical |
| Message format string | HTTP JSON RPC server for network instance *network_instance* is no longer operational. |
| Cause | The httpJsonRpcOperDown event is generated when HTTP JSON RPC server on the mentioned network instance has transitioned from any other operational state to the down state. |
| Effect | HTTP JSON RPC server on the mentioned network instance is now down. |
| Raising event | N/A |
| Clearing event | N/A |


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## 21.5 httpJsonRpcOperUp

*Table 424: httpJsonRpcOperUp properties*

| Property name | Value |
|---|---|
| Application name | json |
| Event name | httpJsonRpcOperUp |
| Default severity | warning |
| Message format string | HTTP JSON RPC server for network instance *network_instance* is operational. |
| Cause | The httpJsonRpcOperUp event is generated when HTTP JSON RPC server on the mentioned network instance has transitioned from any other operational state to the up state. |
| Effect | HTTP JSON RPC server on the mentioned network instance is now up. |
| Raising event | N/A |
| Clearing event | N/A |

## 21.6 httpsJsonRpcOperDown

*Table 425: httpsJsonRpcOperDown properties*

| Property name | Value |
|---|---|
| Application name | json |
| Event name | httpsJsonRpcOperDown |
| Default severity | critical |
| Message format string | HTTPS JSON RPC server for network instance *network_instance* is no longer operational. |
| Cause | The httpsJsonRpcOperDown event is generated when HTTPs JSON RPC server on the mentioned network instance has transitioned from any other operational state to the down state. |
| Effect | HTTPS JSON RPC server on the mentioned network instance is now down. |
| Raising event | N/A |
| Clearing event | N/A |


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## 21.7 httpsJsonRpcOperUp

*Table 426: httpsJsonRpcOperUp properties*

| Property name | Value |
|---|---|
| Application name | json |
| Event name | httpsJsonRpcOperUp |
| Default severity | warning |
| Message format string | HTTPS JSON RPC server for network instance *network_instance* is operational. |
| Cause | The httpsJsonRpcOperUp event is generated when HTTPs JSON RPC server on the mentioned network instance has transitioned from any other operational state to the up state. |
| Effect | HTTPS JSON RPC server on the mentioned network instance is now up. |
| Raising event | N/A |
| Clearing event | N/A |

## 21.8 jsonRpcRequestReceived

*Table 427: jsonRpcRequestReceived properties*

| Property name | Value |
|---|---|
| Application name | json |
| Event name | jsonRpcRequestReceived |
| Default severity | informational |
| Message format string | Request received for session id *session_id* username *username*. |
| Cause | A JSON RPC Request is received. |
| Effect | JSON RPC server processes That Requset. |
| Raising event | N/A |
| Clearing event | N/A |


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## 21.9 jsonRpcResponseSent

*Table 428: jsonRpcResponseSent properties*

| Property name | Value |
|---|---|
| Application name | json |
| Event name | jsonRpcResponseSent |
| Default severity | informational |
| Message format string | Response sent for session id *session_id* username *username*. |
| Cause | A JSON RPC Response is sent. |
| Effect | none. |
| Raising event | N/A |
| Clearing event | N/A |

## 21.10 networkInstanceConfigUpdate

*Table 429: networkInstanceConfigUpdate properties*

| Property name | Value |
|---|---|
| Application name | json |
| Event name | networkInstanceConfigUpdate |
| Default severity | informational |
| Message format string | JSON RPC server network instance *network_instance* configuration updated. |
| Cause | A configuration change has been made in the mentioned network instance, resulting in json rpc configuration being regenerated. |
| Effect | May result in json rpc process(es) start or stop depending on the configuration change. |
| Raising event | N/A |
| Clearing event | N/A |


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## 21.11 unixSocketJsonRpcOperDown

*Table 430: unixSocketJsonRpcOperDown properties*

| Property name | Value |
|---|---|
| Application name | json |
| Event name | unixSocketJsonRpcOperDown |
| Default severity | critical |
| Message format string | Unix Domain Socket JSON RPC server is no longer operational. |
| Cause | The Unix Domain Socket JSON RPC server has transitioned from any other operational state to the down state. |
| Effect | Unix Domain Socket JSON RPC server is now down. |
| Raising event | N/A |
| Clearing event | N/A |

## 21.12 unixSocketJsonRpcOperUp

*Table 431: unixSocketJsonRpcOperUp properties*

| Property name | Value |
|---|---|
| Application name | json |
| Event name | unixSocketJsonRpcOperUp |
| Default severity | warning |
| Message format string | Unix Domain Socket JSON RPC server is operational. |
| Cause | The Unix Domain Socket JSON RPC server has transitioned from any other operational state to the up state. |
| Effect | Unix Domain Socket JSON RPC server is now up. |
| Raising event | N/A |
| Clearing event | N/A |


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## 21.13 userAuthenticated

*Table 432: userAuthenticated properties*

| Property name | Value |
|---|---|
| Application name | json |
| Event name | userAuthenticated |
| Default severity | informational |
| Message format string | User *username* authenticated. |
| Cause | A user has been successfully authenticated. |
| Effect | That user is ready to start a configuration session. |
| Raising event | N/A |
| Clearing event | N/A |

## 21.14 userAuthenticationErrorWrongPassword

*Table 433: userAuthenticationErrorWrongPassword properties*

| Property name | Value |
|---|---|
| Application name | json |
| Event name | userAuthenticationErrorWrongPassword |
| Default severity | informational |
| Message format string | User *username* authentication failure, invalid username or password. |
| Cause | A user has failed to authenticate. |
| Effect | That user can't establish a configuration session. |
| Raising event | N/A |
| Clearing event | N/A |


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## 21.15 userAuthenticationErrorWrongSpiffeId

*Table 434: userAuthenticationErrorWrongSpiffeId properties*

| Property name | Value |
|---|---|
| Application name | json |
| Event name | userAuthenticationErrorWrongSpiffeId |
| Default severity | informational |
| Message format string | User authentication failure, invalid client certificate spiffe-id *spiffe_id*. |
| Cause | A user has failed to authenticate. |
| Effect | That user can't establish a configuration session. |
| Raising event | N/A |
| Clearing event | N/A |


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# 22 lag

## 22.1 lagDown

*Table 435: lagDown properties*

| Property name | Value |
|---|---|
| Application name | lag |
| Event name | lagDown |
| Default severity | warning |
| Message format string | LAG Interface *interface_name*: The operational state has transitioned to Down |
| Cause | This warning is generated when a LAG transitions to the down state. |
| Effect | The LAG is now down and any associated subinterfaces will also be brought down. |
| Raising event | N/A |
| Clearing event | N/A |

## 22.2 lagDownMinLinks

*Table 436: lagDownMinLinks properties*

| Property name | Value |
|---|---|
| Application name | lag |
| Event name | lagDownMinLinks |
| Default severity | warning |
| Message format string | LAG Interface *interface_name*: The active number of member links has fallen below the min-links threshold |
| Cause | This warning is generated when a LAG transitions to the down state because the number of active links has dropped below the min-link threshold |


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| Property name | Value |
|---|---|
| Effect | The LAG is now down and any associated subinterfaces will also be brought down. |
| Raising event | N/A |
| Clearing event | N/A |

## 22.3 lagMemberLinkAdded

*Table 437: lagMemberLinkAdded properties*

| Property name | Value |
|---|---|
| Application name | lag |
| Event name | lagMemberLinkAdded |
| Default severity | notice |
| Message format string | LAG Interface *interface_name*: The member-link *member-interface* has been added |
| Cause | This notification is generated when a new member-link is added to a LAG. |
| Effect | A new member link is now available to the LAG bundle. |
| Raising event | N/A |
| Clearing event | N/A |

## 22.4 lagMemberLinkRemoved

*Table 438: lagMemberLinkRemoved properties*

| Property name | Value |
|---|---|
| Application name | lag |
| Event name | lagMemberLinkRemoved |
| Default severity | notice |
| Message format string | LAG Interface *interface_name*: The member-link *member-interface* has been removed |


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| Property name | Value |
|---|---|
| Cause | This notification is generated when a new member-link is removed from a LAG. |
| Effect | The specified interfaces is no longer a member of the LAG bundle. |
| Raising event | N/A |
| Clearing event | N/A |

## 22.5 lagMemberOperDown

*Table 439: lagMemberOperDown properties*

| Property name | Value |
|---|---|
| Application name | lag |
| Event name | lagMemberOperDown |
| Default severity | warning |
| Message format string | LAG Interface *interface_name*: The member-link *member-interface* operational state has transitioned to Down |
| Cause | This notification is generated when a member-link transitions to the down state. |
| Effect | The member link is now down and will not forward traffic. |
| Raising event | N/A |
| Clearing event | N/A |

## 22.6 lagMemberOperUp

*Table 440: lagMemberOperUp properties*

| Property name | Value |
|---|---|
| Application name | lag |
| Event name | lagMemberOperUp |
| Default severity | warning |
| Message format string | LAG Interface *interface_name*: The member-link *member-interface* operational state has transitioned to Up |


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| Property name | Value |
|---|---|
| Cause | This notification is generated when a member-link transitions to the up state. |
| Effect | The member link is now operational. |
| Raising event | N/A |
| Clearing event | N/A |

## 22.7 lagUp

*Table 441: lagUp properties*

| Property name | Value |
|---|---|
| Application name | lag |
| Event name | lagUp |
| Default severity | notice |
| Message format string | LAG Interface *interface_name*: The operational state has transitioned to Up |
| Cause | This notification is generated when a LAG transitions to the up state. |
| Effect | The LAG is now operational. |
| Raising event | N/A |
| Clearing event | N/A |


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# 23 ldp

## 23.1 ldpIpv4InstanceDown

*Table 442: ldpIpv4InstanceDown properties*

| Property name | Value |
|---|---|
| Application name | ldp |
| Event name | ldpIpv4InstanceDown |
| Default severity | warning |
| Message format string | In network-instance *network_instance*, LDP-IPv4 has changed oper-state to DOWN. The reason is *oper_down_reason* |
| Cause | This event is generated when LDP ceases to becomes functional for IPv4 adjacencies, FECs and addresses. |
| Effect | LDP cannot form IPv4 adjacencies and sessions with other such routers. |
| Raising event | N/A |
| Clearing event | N/A |

## 23.2 ldpIpv4InstanceUp

*Table 443: ldpIpv4InstanceUp properties*

| Property name | Value |
|---|---|
| Application name | ldp |
| Event name | ldpIpv4InstanceUp |
| Default severity | informational |
| Message format string | In network-instance *network_instance*, LDP-IPv4 is now up and functional. |
| Cause | This event is generated when LDP becomes functional for IPv4 adjacencies, FECs and addresses. |


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| Property name | Value |
|---|---|
| Effect | LDP can form IPv4 adjacencies and sessions with other such routers reachable through LDP interfaces that are operational. |
| Raising event | N/A |
| Clearing event | N/A |

## 23.3 ldpIPv4InterfaceDown

*Table 444: ldpIPv4InterfaceDown properties*

| Property name | Value |
|---|---|
| Application name | ldp |
| Event name | ldpIPv4InterfaceDown |
| Default severity | warning |
| Message format string | In network-instance *network_instance*, LDP has changed oper-state to DOWN on the following IPv4 interface *subinterface*. The reason is *oper_down_reason* |
| Cause | This event is generated when LDP ceases to be functional on a subinterface. |
| Effect | LDP drops its adjacencies and sessions with other routers reachable through this subinterface. |
| Raising event | N/A |
| Clearing event | N/A |

## 23.4 ldpIPv4InterfaceUp

*Table 445: ldpIPv4InterfaceUp properties*

| Property name | Value |
|---|---|
| Application name | ldp |
| Event name | ldpIPv4InterfaceUp |
| Default severity | informational |
| Message format string | In network-instance *network_instance*, LDP is now up and functional on the following IPv4 interface *subinterface*. |


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| Property name | Value |
|---|---|
| Cause | This event is generated when LDP becomes functional on a subinterface. |
| Effect | LDP can form adjacencies and sessions with other routers reachable through this subinterface. |
| Raising event | N/A |
| Clearing event | N/A |

## 23.5 ldpIPv4TargetDown

*Table 446: ldpIPv4TargetDown properties*

| Property name | Value |
|---|---|
| Application name | ldp |
| Event name | ldpIPv4TargetDown |
| Default severity | warning |
| Message format string | In network-instance *network_instance*, LDP target peer *target* has changed oper-state to DOWN. The reason is *oper_down_reason* |
| Cause | This event is generated when LDP ceases to be functional on a target. |
| Effect | LDP drops its adjacencies and sessions with other routers reachable through this target. |
| Raising event | N/A |
| Clearing event | N/A |

## 23.6 ldpIPv4TargetUp

*Table 447: ldpIPv4TargetUp properties*

| Property name | Value |
|---|---|
| Application name | ldp |
| Event name | ldpIPv4TargetUp |
| Default severity | informational |


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| Property name | Value |
|---|---|
| Message format string | In network-instance *network_instance*, LDP target peer *target* state is now in service. |
| Cause | This event is generated when LDP becomes functional on a target. |
| Effect | LDP can form adjacencies and sessions with other routers reachable through this target. |
| Raising event | N/A |
| Clearing event | N/A |

## 23.7 ldpIpv6InstanceDown

*Table 448: ldpIpv6InstanceDown properties*

| Property name | Value |
|---|---|
| Application name | ldp |
| Event name | ldpIpv6InstanceDown |
| Default severity | warning |
| Message format string | In network-instance *network_instance*, LDP-IPv6 has changed oper-state to DOWN. The reason is *oper_down_reason* |
| Cause | This event is generated when LDP ceases to becomes functional for IPv6 adjacencies, FECs and addresses. |
| Effect | LDP cannot form IPv6 adjacencies and sessions with other such routers. |
| Raising event | N/A |
| Clearing event | N/A |

## 23.8 ldpIpv6InstanceUp

*Table 449: ldpIpv6InstanceUp properties*

| Property name | Value |
|---|---|
| Application name | ldp |
| Event name | ldpIpv6InstanceUp |


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| Property name | Value |
|---|---|
| Default severity | informational |
| Message format string | In network-instance *network_instance*, LDP-IPv6 is now up and functional. |
| Cause | This event is generated when LDP becomes functional for IPv6 adjacencies, FECs and addresses. |
| Effect | LDP can form IPv6 adjacencies and sessions with other such routers reachable through LDP interfaces that are operational. |
| Raising event | N/A |
| Clearing event | N/A |

## 23.9 ldpIPv6InterfaceDown

*Table 450: ldpIPv6InterfaceDown properties*

| Property name | Value |
|---|---|
| Application name | ldp |
| Event name | ldpIPv6InterfaceDown |
| Default severity | warning |
| Message format string | In network-instance *network_instance*, LDP has changed oper-state to DOWN on the following IPv6 interface *subinterface*. The reason is *oper_down_reason* |
| Cause | This event is generated when LDP ceases to be functional on a subinterface. |
| Effect | LDP drops its adjacencies and sessions with other routers reachable through this subinterface. |
| Raising event | N/A |
| Clearing event | N/A |


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## 23.10 ldpIPv6InterfaceUp

*Table 451: ldpIPv6InterfaceUp properties*

| Property name | Value |
|---|---|
| Application name | ldp |
| Event name | ldpIPv6InterfaceUp |
| Default severity | informational |
| Message format string | In network-instance *network_instance*, LDP is now up and functional on the following IPv6 interface *subinterface*. |
| Cause | This event is generated when LDP becomes functional on a subinterface. |
| Effect | LDP can form adjacencies and sessions with other routers reachable through this subinterface. |
| Raising event | N/A |
| Clearing event | N/A |

## 23.11 ldpIPv6TargetDown

*Table 452: ldpIPv6TargetDown properties*

| Property name | Value |
|---|---|
| Application name | ldp |
| Event name | ldpIPv6TargetDown |
| Default severity | warning |
| Message format string | In network-instance *network_instance*, LDP target peer *target* has changed oper-state to DOWN. The reason is *oper_down_reason* |
| Cause | This event is generated when LDP ceases to be functional on a target. |
| Effect | LDP drops its adjacencies and sessions with other routers reachable through this target. |
| Raising event | N/A |
| Clearing event | N/A |


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## 23.12 ldpIPv6TargetUp

*Table 453: ldpIPv6TargetUp properties*

| Property name | Value |
|---|---|
| Application name | ldp |
| Event name | ldpIPv6TargetUp |
| Default severity | informational |
| Message format string | In network-instance *network_instance*, LDP target peer *target* state is now in service. |
| Cause | This event is generated when LDP becomes functional on a target. |
| Effect | LDP can form adjacencies and sessions with other routers reachable through this target. |
| Raising event | N/A |
| Clearing event | N/A |

## 23.13 ldpSessionDown

*Table 454: ldpSessionDown properties*

| Property name | Value |
|---|---|
| Application name | ldp |
| Event name | ldpSessionDown |
| Default severity | warning |
| Message format string | In network-instance *network_instance*, the LDP session with peer *peer_ldp_id* has changed to non-existent. |
| Cause | This event is generated when an LDP session transitions into the non-existent state from a higher state. |
| Effect | LDP immediately deletes FEC-label and address bindings received from this peer. |
| Raising event | N/A |
| Clearing event | N/A |


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## 23.14 ldpSessionFecLimitReached

*Table 455: ldpSessionFecLimitReached properties*

| Property name | Value |
|---|---|
| Application name | ldp |
| Event name | ldpSessionFecLimitReached |
| Default severity | warning |
| Message format string | The number of FECs received from the LDP peer *peer_ldp_id* has reached the configured limit of *fec_limit*. |
| Cause | The number of FECs accepted from the peer has reached the configured limit. If the number of FECs go below the limit and again start to increase and hit the limit a second time, a new event is generated if 2 or more minutes have elapsed since the previous event. If the FEC limit is changed and the current number of FECs is equal to or higher than the limit then the event is generated immediately. |
| Effect | If the peer supports the overload capability then the session will go into overload. If the peer doesn't support the overload capability then excess FECs will trigger the sending of label release messages back to the peer. |
| Raising event | N/A |
| Clearing event | N/A |

## 23.15 ldpSessionLocalIPv4Overload

*Table 456: ldpSessionLocalIPv4Overload properties*

| Property name | Value |
|---|---|
| Application name | ldp |
| Event name | ldpSessionLocalIPv4Overload |
| Default severity | warning |
| Message format string | The LDP session with peer *peer_ldp_id* has entered overload state for IPv4 FECs because this router sent an overload TLV to the peer. |
| Cause | The local router has received too many IPv4 FECs. |
| Effect | The local router is requesting the peer to stop sending further IPv4 FECs. |


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| Property name | Value |
|---|---|
| Raising event | N/A |
| Clearing event | N/A |

## 23.16 ldpSessionLocalIPv4OverloadCleared

*Table 457: ldpSessionLocalIPv4OverloadCleared properties*

| Property name | Value |
|---|---|
| Application name | ldp |
| Event name | ldpSessionLocalIPv4OverloadCleared |
| Default severity | notice |
| Message format string | The LDP session with peer *peer_ldp_id* has exited overload state for IPv4 FECs because this router cleared the overload TLV to the peer. |
| Cause | The local router has cleared overload state. |
| Effect | The local router cleared the peer to continue sending further IPv4 FECs. |
| Raising event | N/A |
| Clearing event | N/A |

## 23.17 ldpSessionLocalIPv6Overload

*Table 458: ldpSessionLocalIPv6Overload properties*

| Property name | Value |
|---|---|
| Application name | ldp |
| Event name | ldpSessionLocalIPv6Overload |
| Default severity | warning |
| Message format string | The LDP session with peer *peer_ldp_id* has entered overload for IPv6 FECs because this router sent an overload TLV to the peer. |
| Cause | The local router has received too many IPv6 FECs. |
| Effect | The local router is requesting the peer to stop sending further IPv6 FECs. |


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| Property name | Value |
|---|---|
| Raising event | N/A |
| Clearing event | N/A |

## 23.18 ldpSessionLocalIPv6OverloadCleared

*Table 459: ldpSessionLocalIPv6OverloadCleared properties*

| Property name | Value |
|---|---|
| Application name | ldp |
| Event name | ldpSessionLocalIPv6OverloadCleared |
| Default severity | notice |
| Message format string | The LDP session with peer *peer_ldp_id* has exited overload state for IPv6 FECs because this router cleared the overload TLV to the peer. |
| Cause | The local router has cleared overload state. |
| Effect | The local router cleared the peer to continue sending further IPv6 FECs. |
| Raising event | N/A |
| Clearing event | N/A |

## 23.19 ldpSessionPeerIPv4Overload

*Table 460: ldpSessionPeerIPv4Overload properties*

| Property name | Value |
|---|---|
| Application name | ldp |
| Event name | ldpSessionPeerIPv4Overload |
| Default severity | warning |
| Message format string | The LDP session with peer *peer_ldp_id* has entered overload state for IPv4 FECs because the peer sent an overload TLV. |
| Cause | The peer router has received too many IPv4 FECs. |
| Effect | The local router stops sending further IPv4 FECs to the peer. |


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| Property name | Value |
|---|---|
| Raising event | N/A |
| Clearing event | N/A |

## 23.20 ldpSessionPeerIPv4OverloadCleared

*Table 461: ldpSessionPeerIPv4OverloadCleared properties*

| Property name | Value |
|---|---|
| Application name | ldp |
| Event name | ldpSessionPeerIPv4OverloadCleared |
| Default severity | notice |
| Message format string | The LDP session with peer *peer_ldp_id* has exited overload state for IPv4 FECs because the peer cleared overload TLV. |
| Cause | The peer router has cleared overload state. |
| Effect | The local router can again send IPv4 FECs to the peer. |
| Raising event | N/A |
| Clearing event | N/A |

## 23.21 ldpSessionPeerIPv6Overload

*Table 462: ldpSessionPeerIPv6Overload properties*

| Property name | Value |
|---|---|
| Application name | ldp |
| Event name | ldpSessionPeerIPv6Overload |
| Default severity | warning |
| Message format string | The LDP session with peer *peer_ldp_id* has entered overload state for IPv6 FECs because the peer sent an overload TLV. |
| Cause | The peer router has received too many IPv6 FECs. |
| Effect | The local router stops sending further IPv6 FECs to the peer. |
| Raising event | N/A |


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| Property name | Value |
|---|---|
| Clearing event | N/A |

## 23.22 ldpSessionPeerIPv6OverloadCleared

*Table 463: ldpSessionPeerIPv6OverloadCleared properties*

| Property name | Value |
|---|---|
| Application name | ldp |
| Event name | ldpSessionPeerIPv6OverloadCleared |
| Default severity | notice |
| Message format string | The LDP session with peer *peer_ldp_id* has exited overload state for IPv6 FECs because the peer cleared overload TLV. |
| Cause | The peer router has cleared overload state. |
| Effect | The local router can again send IPv6 FECs to the peer. |
| Raising event | N/A |
| Clearing event | N/A |

## 23.23 ldpSessionUp

*Table 464: ldpSessionUp properties*

| Property name | Value |
|---|---|
| Application name | ldp |
| Event name | ldpSessionUp |
| Default severity | informational |
| Message format string | In network-instance *network_instance*, an LDP session is now up and operational with peer *peer_ldp_id*. |
| Cause | This event is generated when an LDP session transitions into the operational state from a lower state. |
| Effect | LDP can exchange FEC-label and address bindings with this peer. |
| Raising event | N/A |


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| Property name | Value |
| --- | --- |
| Clearing event | N/A |


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# 24 license

## 24.1 licenseExpired

*Table 465: licenseExpired properties*

| Property name | Value |
|---|---|
| Application name | license |
| Event name | licenseExpired |
| Default severity | warning |
| Message format string | License *license_name* expired at *expired_at_date_time*, current time: *current_date_time* |
| Cause | The license specified has expired. |
| Effect | If no new license is provided, the system becomes unlicensed. |
| Raising event | N/A |
| Clearing event | N/A |

## 24.2 licenseExpirySoon

*Table 466: licenseExpirySoon properties*

| Property name | Value |
|---|---|
| Application name | license |
| Event name | licenseExpirySoon |
| Default severity | warning |
| Message format string | License *license_name* expires at *expires_at_date_time*, current time: *current_date_time* |
| Cause | The license specified will expire in less than 30 days. |
| Effect | If no new license is provided before the expiry, the system becomes unlicensed. |
| Raising event | N/A |


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| Property name | Value |
|---|---|
| Clearing event | N/A |

## 24.3 licenseMissing

*Table 467: licenseMissing properties*

| Property name | Value |
|---|---|
| Application name | license |
| Event name | licenseMissing |
| Default severity | warning |
| Message format string | System is running unlicensed. current time: *current_date_time* |
| Cause | No license activated on a system requiring a license. |
| Effect | System will continue to raise this event until a license is provided. |
| Raising event | N/A |
| Clearing event | N/A |

## 24.4 licenseViolation

*Table 468: licenseViolation properties*

| Property name | Value |
|---|---|
| Application name | license |
| Event name | licenseViolation |
| Default severity | warning |
| Message format string | System requires a license. System will reboot at *reboot_at_date_time*, current time: *current_date_time* |
| Cause | No license activated on a system requiring a license. |
| Effect | If no license is provided before the reboot time, the system will reboot. |
| Raising event | N/A |
| Clearing event | N/A |


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# 25 linux

## 25.1 bannerUpdated

*Table 469: bannerUpdated properties*

| Property name | Value |
|---|---|
| Application name | linux |
| Event name | bannerUpdated |
| Default severity | informational |
| Message format string | *banner_type* banner was updated by *username* to '*new_value*' |
| Cause | The login-banner or motd-banner under .system.banner was changed and the change was committed. |
| Effect | Audit record of the banner change is generated for compliance (NIAP). |
| Raising event | N/A |
| Clearing event | N/A |

## 25.2 cpuUsageCritical

*Table 470: cpuUsageCritical properties*

| Property name | Value |
|---|---|
| Application name | linux |
| Event name | cpuUsageCritical |
| Default severity | critical |
| Message format string | CPU utilization on *component_type* module *slot* is above 90% on average for the last minute, current usage *cpu_usage_percentage*% |
| Cause | Applications or other system tasks have consumed more than 90% of available CPU resources on average over the last minute. |
| Effect | Processes may be scheduled at a slower rate than required, resulting in potential application failures or slow downs. |


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| Property name | Value |
|---|---|
| Raising event | N/A |
| Clearing event | N/A |

## 25.3 cpuUsageHigh

*Table 471: cpuUsageHigh properties*

| Property name | Value |
|---|---|
| Application name | linux |
| Event name | cpuUsageHigh |
| Default severity | warning |
| Message format string | CPU utilization on *component_type* module *slot* is above 80% on average for the last minute, current usage *cpu_usage_percentage*% |
| Cause | Applications or other system tasks have consumed more than 80% of available CPU resources on average over the last minute. |
| Effect | No immediate effect, if utilization continues to increase, processes may be scheduled at a slower rate than required, resulting in potential application failures or slow downs. |
| Raising event | N/A |
| Clearing event | N/A |

## 25.4 cpuUsageNormal

*Table 472: cpuUsageNormal properties*

| Property name | Value |
|---|---|
| Application name | linux |
| Event name | cpuUsageNormal |
| Default severity | notice |
| Message format string | CPU utilization on *component_type* module *slot* is below 70% on average for the last minute, current usage *cpu_usage_percentage*% |
| Cause | CPU consumption on the specified slot has returned to normal levels - below 70%, after triggering a cpuUsageHigh/cpuUsageCritical event. |


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| Property name | Value |
|---|---|
| Effect | None. |
| Raising event | N/A |
| Clearing event | N/A |

## 25.5 dateAndTimeChanged

*Table 473: dateAndTimeChanged properties*

| Property name | Value |
|---|---|
| Application name | linux |
| Event name | dateAndTimeChanged |
| Default severity | notice |
| Message format string | System date and time changed to *date_and_time* |
| Cause | The system time has been changed either manually, or via NTP, to the specified time. |
| Effect | Local time on the system has changed. |
| Raising event | N/A |
| Clearing event | N/A |

## 25.6 domainChanged

*Table 474: domainChanged properties*

| Property name | Value |
|---|---|
| Application name | linux |
| Event name | domainChanged |
| Default severity | informational |
| Message format string | System domain name changed to *domain_name* |
| Cause | System configuration change to the domain name has been made. |
| Effect | The system uses the new domain name. |


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| Property name | Value |
|---|---|
| Raising event | N/A |
| Clearing event | N/A |

## 25.7 hostnameChanged

*Table 475: hostnameChanged properties*

| Property name | Value |
|---|---|
| Application name | linux |
| Event name | hostnameChanged |
| Default severity | informational |
| Message format string | System host name changed to *host_name* |
| Cause | System configuration change to the host name has been made. |
| Effect | The system uses the new host name. |
| Raising event | N/A |
| Clearing event | N/A |

## 25.8 memoryUsageCritical

*Table 476: memoryUsageCritical properties*

| Property name | Value |
|---|---|
| Application name | linux |
| Event name | memoryUsageCritical |
| Default severity | critical |
| Message format string | Memory utilization on *component_type* module *slot* is above 90%, current usage *memory_usage_percentage*% |
| Cause | Applications or other in-memory items have consumed more than 90% of the memory on the specified module. |
| Effect | No immediate effect, if utilization continues to increase, new memory allocations may fail, resulting in potential application failures. |


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| Property name | Value |
|---|---|
| Raising event | N/A |
| Clearing event | N/A |

## 25.9 memoryUsageFull

*Table 477: memoryUsageFull properties*

| Property name | Value |
|---|---|
| Application name | linux |
| Event name | memoryUsageFull |
| Default severity | emergency |
| Message format string | Memory utilization on *component_type* module *slot* is full |
| Cause | Applications or other in-memory items have consumed 100% of the memory on the specified module. |
| Effect | Further memory allocations will fail, likely leading to application failures and eventual module restart. |
| Raising event | N/A |
| Clearing event | N/A |

## 25.10 memoryUsageHigh

*Table 478: memoryUsageHigh properties*

| Property name | Value |
|---|---|
| Application name | linux |
| Event name | memoryUsageHigh |
| Default severity | warning |
| Message format string | Memory utilization on *component_type* module *slot* is above 70%, current usage *memory_usage_percentage*% |
| Cause | Applications or other in-memory items have consumed more than 70% of the memory on the specified slot. |


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| Property name | Value |
|---|---|
| Effect | No immediate effect, if utilization continues to increase, new memory allocations may fail, resulting in potential application failures. |
| Raising event | N/A |
| Clearing event | N/A |

## 25.11 memoryUsageNormal

*Table 479: memoryUsageNormal properties*

| Property name | Value |
|---|---|
| Application name | linux |
| Event name | memoryUsageNormal |
| Default severity | notice |
| Message format string | Memory utilization on *component_type* module *slot* is below 60%, current usage *memory_usage_percentage*% |
| Cause | Memory consumption on the specified slot has returned to normal levels - below 60% |
| Effect | None. |
| Raising event | N/A |
| Clearing event | N/A |

## 25.12 partitionStateChange

*Table 480: partitionStateChange properties*

| Property name | Value |
|---|---|
| Application name | linux |
| Event name | partitionStateChange |
| Default severity | alert |
| Message format string | Partition *partition* has changed state to *current_state* |
| Cause | The specified partition has transitioned to a new state. |


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| Property name | Value |
|---|---|
| Effect | Depending on the state, the partition may now be unusable, read-only, or read-write. |
| Raising event | N/A |
| Clearing event | N/A |

## 25.13 partitionUsageCritical

*Table 481: partitionUsageCritical properties*

| Property name | Value |
|---|---|
| Application name | linux |
| Event name | partitionUsageCritical |
| Default severity | critical |
| Message format string | Partition *partition_label* usage on *component_type* module *slot* is higher than 90%, current usage *partition_usage_percentage*% |
| Cause | The specified partition is almost full, and action should be taken to remove unneeded files. |
| Effect | None. |
| Raising event | N/A |
| Clearing event | N/A |

## 25.14 partitionUsageFull

*Table 482: partitionUsageFull properties*

| Property name | Value |
|---|---|
| Application name | linux |
| Event name | partitionUsageFull |
| Default severity | alert |
| Message format string | Partition *partition_label* on *component_type* module *slot* is full |
| Cause | The specified partition is full. |


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| Property name | Value |
|---|---|
| Effect | Write actions to this partition will fail. |
| Raising event | N/A |
| Clearing event | N/A |

## 25.15 partitionUsageNormal

*Table 483: partitionUsageNormal properties*

| Property name | Value |
|---|---|
| Application name | linux |
| Event name | partitionUsageNormal |
| Default severity | notice |
| Message format string | Partition *partition_label* on *component_type* module *slot* is below 70%, current usage *partition_usage_percentage*% |
| Cause | Utilization of the specified partition is below 70%, after previously being higher than 80%. |
| Effect | None. |
| Raising event | N/A |
| Clearing event | N/A |

## 25.16 partitionUsageWarning

*Table 484: partitionUsageWarning properties*

| Property name | Value |
|---|---|
| Application name | linux |
| Event name | partitionUsageWarning |
| Default severity | warning |
| Message format string | Partition *partition_label* usage on *component_type* module *slot* is higher than 80%, current usage *partition_usage_percentage*% |
| Cause | The specified partition is almost full, and action should be taken to remove unneeded files. |


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| Property name | Value |
|---|---|
| Effect | None. |
| Raising event | N/A |
| Clearing event | N/A |

## 25.17 serviceConfigChanged

*Table 485: serviceConfigChanged properties*

| Property name | Value |
|---|---|
| Application name | linux |
| Event name | serviceConfigChanged |
| Default severity | notice |
| Message format string | Service *service_name* configuration changed, service reloaded |
| Cause | The specified service configuration has been changed, and linux_mgr has reloaded the service. |
| Effect | New configuration for the service is now in effect. |
| Raising event | N/A |
| Clearing event | N/A |

## 25.18 serviceDownInNetworkInstance

*Table 486: serviceDownInNetworkInstance properties*

| Property name | Value |
|---|---|
| Application name | linux |
| Event name | serviceDownInNetworkInstance |
| Default severity | warning |
| Message format string | Service *service_name* is no longer operational in network instance *net_inst* |
| Cause | The specified service has been disabled in the specified network instance. |


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| Property name | Value |
|---|---|
| Effect | Functionality provided by the service is no longer available in the specified network instance. |
| Raising event | N/A |
| Clearing event | N/A |

## 25.19 serviceUpInNetworkInstance

*Table 487: serviceUpInNetworkInstance properties*

| Property name | Value |
|---|---|
| Application name | linux |
| Event name | serviceUpInNetworkInstance |
| Default severity | notice |
| Message format string | Service *service_name* is now operational in network instance *net_inst* |
| Cause | The specified service has been started in the specified network instance. |
| Effect | Functionality provided by the service is now available in the specified network instance. |
| Raising event | N/A |
| Clearing event | N/A |

## 25.20 systemResourceHighUtilization

*Table 488: systemResourceHighUtilization properties*

| Property name | Value |
|---|---|
| Application name | linux |
| Event name | systemResourceHighUtilization |
| Default severity | warning |
| Message format string | The system resource called *resource_name* has reached *threshold*% or more utilization |


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| Property name | Value |
|---|---|
| Cause | The specified resource utilization has crossed the configured rising threshold. |
| Effect | None. |
| Raising event | N/A |
| Clearing event | N/A |

## 25.21 systemResourceHighUtilizationLowered

*Table 489: systemResourceHighUtilizationLowered properties*

| Property name | Value |
|---|---|
| Application name | linux |
| Event name | systemResourceHighUtilizationLowered |
| Default severity | notice |
| Message format string | The system resource called *resource_name* has decreased back to *threshold*% or less utilization |
| Cause | The specified resource utilization has crossed the configured falling threshold after previously exceeding the rising threshold. |
| Effect | None. |
| Raising event | N/A |
| Clearing event | N/A |


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# 26 lldp

## 26.1 remoteLldpMedPeerAdded

*Table 490: remoteLldpMedPeerAdded properties*

| Property name | Value |
|---|---|
| Application name | lldp |
| Event name | remoteLldpMedPeerAdded |
| Default severity | informational |
| Message format string | LLDP MED remote peer added on interface *interface_name*: System *remote_system_name* with chassis ID *remote_chassis_id*, port *remote_port_id* with MAC *remote_port_mac* device class *remote_med_device_class* |
| Cause | A new LLDPDU with LLDP-MED Capability TLV has been received on the interface, resulting in the creation of an LLDP MED peer. |
| Effect | A new LLDP MED peer has been added to LLDP. |
| Raising event | N/A |
| Clearing event | N/A |

## 26.2 remoteLldpMedPeerRemoved

*Table 491: remoteLldpMedPeerRemoved properties*

| Property name | Value |
|---|---|
| Application name | lldp |
| Event name | remoteLldpMedPeerRemoved |
| Default severity | informational |
| Message format string | LLDP MED remote peer removed on interface *interface_name*: System *remote_system_name* with chassis ID *remote_chassis_id*, port *remote_port_id* with MAC *remote_port_mac* device class *remote_med_device_class* |


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| Property name | Value |
|---|---|
| Cause | The TTL for the LLDP MED remote peer has expired without a new LLDP PDU being received. |
| Effect | The LLDP MED peer has been removed from LLDP. |
| Raising event | N/A |
| Clearing event | N/A |

## 26.3 remotePeerAdded

*Table 492: remotePeerAdded properties*

| Property name | Value |
|---|---|
| Application name | lldp |
| Event name | remotePeerAdded |
| Default severity | informational |
| Message format string | LLDP remote peer added on interface *interface_name*: System *remote_system_name* with chassis ID *remote_chassis_id*, port *remote_port_id* with MAC *remote_port_mac* |
| Cause | A new LLDP PDU has been received on the interface, resulting in the creation of an LLDP peer. |
| Effect | A new peer has been added to LLDP. |
| Raising event | N/A |
| Clearing event | N/A |

## 26.4 remotePeerRemoved

*Table 493: remotePeerRemoved properties*

| Property name | Value |
|---|---|
| Application name | lldp |
| Event name | remotePeerRemoved |
| Default severity | informational |


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| Property name | Value |
|---|---|
| Message format string | LLDP remote peer removed on interface *interface_name*: System *remote_system_name* with chassis ID *remote_chassis_id*, port *remote_port_id* with MAC *remote_port_mac* |
| Cause | The TTL for the remote peer has expired without a new LLDP PDU being received. |
| Effect | The peer has been removed from LLDP. |
| Raising event | N/A |
| Clearing event | N/A |

## 26.5 remotePeerUpdated

*Table 494: remotePeerUpdated properties*

| Property name | Value |
|---|---|
| Application name | lldp |
| Event name | remotePeerUpdated |
| Default severity | informational |
| Message format string | LLDP remote peer updated on interface *interface_name*: System *remote_system_name* with chassis ID *remote_chassis_id*, port *remote_port_id* with MAC *remote_port_mac* |
| Cause | The LLDP peer has sent new information in a LLDP PDU, without the TTL for the peer expiring. |
| Effect | The peer has been updated in LLDP. |
| Raising event | N/A |
| Clearing event | N/A |


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# 27 log

## 27.1 bufferRollover

*Table 495: bufferRollover properties*

| Property name | Value |
|---|---|
| Application name | log |
| Event name | bufferRollover |
| Default severity | informational |
| Message format string | Buffer *buffer_name* has been rolled over |
| Cause | The buffer has reached its configured max size, and log manager has rolled it over. |
| Effect | A new buffer has been opened for writing, and the old buffer has been archived. This may result in older buffers being removed from the system. |
| Raising event | N/A |
| Clearing event | N/A |

## 27.2 configUpdate

*Table 496: configUpdate properties*

| Property name | Value |
|---|---|
| Application name | log |
| Event name | configUpdate |
| Default severity | informational |
| Message format string | Logging configuration updated |
| Cause | A configuration change has been made, resulting in rsyslogd configuration being regenerated. |
| Effect | Rsyslogd configuration has been modified, and the process has been restarted. |


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| Property name | Value |
|---|---|
| Raising event | N/A |
| Clearing event | N/A |

## 27.3 fileRollover

*Table 497: fileRollover properties*

| Property name | Value |
|---|---|
| Application name | log |
| Event name | fileRollover |
| Default severity | informational |
| Message format string | File *file_path*/*file_name* has been rolled over |
| Cause | The file has reached its configured max size, and log manager has rolled it over. |
| Effect | A new log file has been opened for writing, and the old log file has been archived. This may result in older logs being removed from the system. |
| Raising event | N/A |
| Clearing event | N/A |

## 27.4 networkNamespaceChanged

*Table 498: networkNamespaceChanged properties*

| Property name | Value |
|---|---|
| Application name | log |
| Event name | networkNamespaceChanged |
| Default severity | informational |
| Message format string | Logging network namespace has changed from *old_net_namespace* to *new_net_namespace* |
| Cause | Configuration has been modified, resulting in the rsyslogd using the new network namespace to reach remote syslog servers. |


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| Property name | Value |
|---|---|
| Effect | Rsyslogd will use the new network namespace for reachability to remote syslog servers. |
| Raising event | N/A |
| Clearing event | N/A |

## 27.5 subsystemFacilityChanged

*Table 499: subsystemFacilityChanged properties*

| Property name | Value |
|---|---|
| Application name | log |
| Event name | subsystemFacilityChanged |
| Default severity | informational |
| Message format string | Logging output facility has changed from *old_facility* to *new_facility* |
| Cause | Configuration has been modified, resulting in the output facility of our subsystems changing. |
| Effect | Subsystems will now output logs to the newly configured facility. |
| Raising event | N/A |
| Clearing event | N/A |


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# 28 macsec

## 28.1 CAisTornDown

*Table 500: CAisTornDown properties*

| Property name | Value |
|---|---|
| Application name | macsec |
| Event name | CAisTornDown |
| Default severity | notice |
| Message format string | Existing CA has been torn down for Policy *policy_name* on interface *interface_name* for CKN *CKN* local MI:SCI *MI*:*SCI*. |
| Cause | An existing Connectivity Association has been torn down. |
| Effect | Macsec is being torn down. |
| Raising event | N/A |
| Clearing event | N/A |

## 28.2 MACsecConfigureOnInterface

*Table 501: MACsecConfigureOnInterface properties*

| Property name | Value |
|---|---|
| Application name | macsec |
| Event name | MACsecConfigureOnInterface |
| Default severity | notice |
| Message format string | MACsec policy *policy_name* with key-chian *key_chain_name* has been configured on interface *interface_name* |
| Cause | The MACsec policy has been configured on an interface. |
| Effect | MACsec Policy has been configured on the interface but not protecting as it is not enabled. |
| Raising event | N/A |


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| Property name | Value |
|---|---|
| Clearing event | N/A |

## 28.3 macsecDatapathReplayDetected

*Table 502: macsecDatapathReplayDetected properties*

| Property name | Value |
|---|---|
| Application name | macsec |
| Event name | macsecDatapathReplayDetected |
| Default severity | notice |
| Message format string | MACsec replay has been detected for policy *policy_name* on interface *interface_name* SCI *SCI* with replay count of *count* |
| Cause | A MACsec datapath replay attack is detected. |
| Effect | The count of replay packets are displayed. |
| Raising event | N/A |
| Clearing event | N/A |

## 28.4 MACsecDisabledFromInterface

*Table 503: MACsecDisabledFromInterface properties*

| Property name | Value |
|---|---|
| Application name | macsec |
| Event name | MACsecDisabledFromInterface |
| Default severity | notice |
| Message format string | MACsec policy *policy_name* has been disabled on interface *interface_name* |
| Cause | The MACsec policy has been disable from an interface. |
| Effect | Interface is not protected with MACsec. |
| Raising event | N/A |
| Clearing event | N/A |


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## 28.5 MACsecEnabledOnInterface

*Table 504: MACsecEnabledOnInterface properties*

| Property name | Value |
|---|---|
| Application name | macsec |
| Event name | MACsecEnabledOnInterface |
| Default severity | notice |
| Message format string | MACsec policy *policy_name* has been admin enabled on interface *interface_name* |
| Cause | The MACsec policy has been enabled on an interface. |
| Effect | Interface is protected with MACsec Encryption. |
| Raising event | N/A |
| Clearing event | N/A |

## 28.6 macsecPnExhaustion

*Table 505: macsecPnExhaustion properties*

| Property name | Value |
|---|---|
| Application name | macsec |
| Event name | macsecPnExhaustion |
| Default severity | notice |
| Message format string | MACsec PN exhaustion has been detected for policy *policy_name* on interface *interface_name* SCI:AN *SCI*:*AN* and MI *MI* |
| Cause | MACsec Packet Number Exhaustion is detected and the system is generating a new SAK. |
| Effect | The system will generate a new SAK. |
| Raising event | N/A |
| Clearing event | N/A |


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## 28.7 MACsecRemovedFromInterface

*Table 506: MACsecRemovedFromInterface properties*

| Property name | Value |
|---|---|
| Application name | macsec |
| Event name | MACsecRemovedFromInterface |
| Default severity | notice |
| Message format string | MACsec policy *policy_name* with key-chain *key_chain_name* has been removed from interface *interface_name* |
| Cause | The MACsec policy has been removed from an interface. |
| Effect | The MACsec policy has been removed and the interface is not protected any longer. |
| Raising event | N/A |
| Clearing event | N/A |

## 28.8 maxNumberOfPeers

*Table 507: maxNumberOfPeers properties*

| Property name | Value |
|---|---|
| Application name | macsec |
| Event name | maxNumberOfPeers |
| Default severity | notice |
| Message format string | MACsec Policy *policy_name* has been configured with maximum number of peers *maxNumberOfPeers* and has *numberOfActivePeers* active peers |
| Cause | The MACsec policy has more active peers than maximum number of peers. |
| Effect | No new active peers can be established. |
| Raising event | N/A |
| Clearing event | N/A |


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## 28.9 mkaReplayDetected

*Table 508: mkaReplayDetected properties*

| Property name | Value |
|---|---|
| Application name | macsec |
| Event name | mkaReplayDetected |
| Default severity | notice |
| Message format string | MKA replay has been detected for policy *policy_name* on interface *interface_name* for CKN *CKN* with MI:SCI *MI*:*SCI* has replay count of *count* |
| Cause | A MKA replay attack is detected. |
| Effect | The count of replay packets are displayed. |
| Raising event | N/A |
| Clearing event | N/A |

## 28.10 MkaSessionEnded

*Table 509: MkaSessionEnded properties*

| Property name | Value |
|---|---|
| Application name | macsec |
| Event name | MkaSessionEnded |
| Default severity | notice |
| Message format string | MKA Policy *policy_name* on interface *interface_name* with MI:SCI *MI*:*SCI* has been ended. |
| Cause | The MKA policy has ended on an interface. |
| Effect | MKA has ended on the interface and the MACsec status will go down. |
| Raising event | N/A |
| Clearing event | N/A |


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## 28.11 MkaSessionEstablished

*Table 510: MkaSessionEstablished properties*

| Property name | Value |
|---|---|
| Application name | macsec |
| Event name | MkaSessionEstablished |
| Default severity | notice |
| Message format string | MKA Policy *policy_name* on interface *interface_name* with MI:SCI *MI*:*SCI* has established and has key server priority *key_server_priority* |
| Cause | The MKA policy has been established on an interface. |
| Effect | MKA will be establish to distribute SAKs. |
| Raising event | N/A |
| Clearing event | N/A |

## 28.12 newCAisCreated

*Table 511: newCAisCreated properties*

| Property name | Value |
|---|---|
| Application name | macsec |
| Event name | newCAisCreated |
| Default severity | notice |
| Message format string | A new CA has been created for Policy *policy_name* on interface *interface_name* for CKN *CKN* local MI:SCI *MI*:*SCI*. |
| Cause | A new Connectivity Association has been created. |
| Effect | Macsec is being established. |
| Raising event | N/A |
| Clearing event | N/A |


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## 28.13 newRxSakInstalled

*Table 512: newRxSakInstalled properties*

| Property name | Value |
|---|---|
| Application name | macsec |
| Event name | newRxSakInstalled |
| Default severity | notice |
| Message format string | Rx SAK installed *policy_name* on interface *interface_name* with MI:SCI *MI*:*SCI* |
| Cause | An RX Sak has been installed for macsec. |
| Effect | Macsec will switch to the new RX SAK for decryption after it is installed. |
| Raising event | N/A |
| Clearing event | N/A |

## 28.14 newTxSakInstalled

*Table 513: newTxSakInstalled properties*

| Property name | Value |
|---|---|
| Application name | macsec |
| Event name | newTxSakInstalled |
| Default severity | notice |
| Message format string | Tx SAK installed *policy_name* on interface *interface_name* with MI:SCI *MI*:*SCI* |
| Cause | A TX Sak has been installed for macsec. |
| Effect | Macsec will switch to the new TX SAK after it is installed for encryption. |
| Raising event | N/A |
| Clearing event | N/A |


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# 29 mgmt

## 29.1 checkpointGenerated

*Table 514: checkpointGenerated properties*

| Property name | Value |
|---|---|
| Application name | mgmt |
| Event name | checkpointGenerated |
| Default severity | informational |
| Message format string | Generated checkpoint *checkpoint_name* with comment *checkpoint_comment* on the following path *checkpoint_file_path*. |
| Cause | A configuration checkpoint generated on the mentioned path. |
| Effect | The mentioned checkpoint is stored to the filesystem. |
| Raising event | N/A |
| Clearing event | N/A |

## 29.2 checkpointRevertRequestReceived

*Table 515: checkpointRevertRequestReceived properties*

| Property name | Value |
|---|---|
| Application name | mgmt |
| Event name | checkpointRevertRequestReceived |
| Default severity | warning |
| Message format string | Configuration is going to be reverted to checkpoint *checkpoint_id* name *checkpoint_name* comment *checkpoint_comment*. |
| Cause | Configuration revert request was received. |
| Effect | Configuration is going to be reverted to the specified checkpoint and applied to running datastore. |
| Raising event | N/A |


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| Property name | Value |
|---|---|
| Clearing event | N/A |

## 29.3 commitFailed

*Table 516: commitFailed properties*

| Property name | Value |
|---|---|
| Application name | mgmt |
| Event name | commitFailed |
| Default severity | warning |
| Message format string | Error while committing configuration changes for user *username* session *session_id* (*message*). |
| Cause | Unsuccessful commit due to error(s) |
| Effect | Configuration changes are not applied to running datastore |
| Raising event | N/A |
| Clearing event | N/A |

## 29.4 commitSucceeded

*Table 517: commitSucceeded properties*

| Property name | Value |
|---|---|
| Application name | mgmt |
| Event name | commitSucceeded |
| Default severity | informational |
| Message format string | All changes have been committed successfully by user *username* session *session_id*. |
| Cause | A successful commit |
| Effect | Configuration changes applied to running datastore |
| Raising event | N/A |
| Clearing event | N/A |


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## 29.5 exclusiveConfigSessionBlockedByOtherSessionError

*Table 518: exclusiveConfigSessionBlockedByOtherSessionError properties*

| Property name | Value |
|---|---|
| Application name | mgmt |
| Event name | exclusiveConfigSessionBlockedByOtherSessionError |
| Default severity | informational |
| Message format string | Cannot start an exclusive configuration session for candidate name *candidate_name*, there is other configuration session in progress - session id *session_id* username *username* candidate name *candidate_name*. |
| Cause | Candidate datastore is locked due to other active session in progress |
| Effect | Exclusive configuration session Error |
| Raising event | N/A |
| Clearing event | N/A |

## 29.6 exclusiveConfigSessionError

*Table 519: exclusiveConfigSessionError properties*

| Property name | Value |
|---|---|
| Application name | mgmt |
| Event name | exclusiveConfigSessionError |
| Default severity | informational |
| Message format string | Cannot start an exclusive configuration session, there is already another exclusive configuration session in progress - session id *session_id* username *username* candidate name *candidate_name*. |
| Cause | Candidate datastore is locked due to other active session in progress |
| Effect | Exclusive configuration session Error |
| Raising event | N/A |
| Clearing event | N/A |


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## 29.7 privateConfigSessionError

*Table 520: privateConfigSessionError properties*

| Property name | Value |
|---|---|
| Application name | mgmt |
| Event name | privateConfigSessionError |
| Default severity | informational |
| Message format string | Cannot start a configuration session for candidate name *candidate_name* by user *username*, the candidate is owned by user *candidate_username*. |
| Cause | Candidate datastore is owned by different user |
| Effect | Private configuration session Error |
| Raising event | N/A |
| Clearing event | N/A |

## 29.8 privateSharedMismatch

*Table 521: privateSharedMismatch properties*

| Property name | Value |
|---|---|
| Application name | mgmt |
| Event name | privateSharedMismatch |
| Default severity | informational |
| Message format string | Cannot start a configuration session for candidate name *candidate_name* by user *username*, cannot use private candidate with shared session or vice versa. |
| Cause | Candidate was created as private and the requested configuration session is shared or vice versa |
| Effect | Private shared configuration mismatch Error |
| Raising event | N/A |
| Clearing event | N/A |


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## 29.9 sharedConfigSessionBlockedByOtherSessionError

*Table 522: sharedConfigSessionBlockedByOtherSessionError properties*

| Property name | Value |
|---|---|
| Application name | mgmt |
| Event name | sharedConfigSessionBlockedByOtherSessionError |
| Default severity | informational |
| Message format string | Cannot start a shared configuration session for candidate name *candidate_name*, there is other configuration session in progress - session id *session_id* username *username* candidate name *candidate_name*. |
| Cause | Candidate datastore is locked due to other active session in progress |
| Effect | Shared configuration session Error |
| Raising event | N/A |
| Clearing event | N/A |


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# 30 mirror

## 30.1 mirrorDestinationDelete

*Table 523: mirrorDestinationDelete properties*

| Property name | Value |
|---|---|
| Application name | mirror |
| Event name | mirrorDestinationDelete |
| Default severity | warning |
| Message format string | Mirror destination *mirror_destination* is removed from configuration under mirror instance *mirror_instance_name* |
| Cause | Mirror destination is removed from configuration under the mentioned mirror instance |
| Effect | Packets will no longer be mirrorred towards the mentioned mirror destination under the mentioned mirror instance |
| Raising event | N/A |
| Clearing event | N/A |

## 30.2 mirrorDestinationOperDown

*Table 524: mirrorDestinationOperDown properties*

| Property name | Value |
|---|---|
| Application name | mirror |
| Event name | mirrorDestinationOperDown |
| Default severity | critical |
| Message format string | Mirror destination *mirror_destination* is operationally down under mirror instance *mirror_instance_name* |
| Cause | Mirror destination oper state has changed from up to down the mentioned mirror instance |


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| Property name | Value |
|---|---|
| Effect | The oper state is down for the mentioned mirror destination under the mentioned mirror instance. Packets will no longer be mirrorred towards the mentioned mirror destination |
| Raising event | N/A |
| Clearing event | N/A |

## 30.3 mirrorDestinationOperUP

*Table 525: mirrorDestinationOperUP properties*

| Property name | Value |
|---|---|
| Application name | mirror |
| Event name | mirrorDestinationOperUP |
| Default severity | warning |
| Message format string | Mirror destination *mirror_destination* is operationally up under mirror instance *mirror_instance_name* |
| Cause | Mirror destination oper state has changed from down to up the mentioned mirror instance |
| Effect | The oper state is up for the mentioned mirror destination under the mentioned mirror instance |
| Raising event | N/A |
| Clearing event | N/A |

## 30.4 mirrorDestnationAdd

*Table 526: mirrorDestnationAdd properties*

| Property name | Value |
|---|---|
| Application name | mirror |
| Event name | mirrorDestnationAdd |
| Default severity | warning |
| Message format string | Mirror destination *mirror_destination* is added to configuration under mirror instance *mirror_instance_name* |


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| Property name | Value |
|---|---|
| Cause | Mirror destination is added in configuration under the mentioned mirror instance |
| Effect | Packets from mirror source(s) configured under the mentioned mirror instance will be mirrored towards the mentioned mirror destination configured under the same mirror instance if mirror instance, mirror source(s) and mirror dest are opernational up |
| Raising event | N/A |
| Clearing event | N/A |

## 30.5 mirrorInstanceAdminDisable

*Table 527: mirrorInstanceAdminDisable properties*

| Property name | Value |
|---|---|
| Application name | mirror |
| Event name | mirrorInstanceAdminDisable |
| Default severity | warning |
| Message format string | Mirror instance *mirror_instance_name* has changed to administrative disable state |
| Cause | The mirror instance admin state has changed from enable to disable due to configuration change |
| Effect | The admin state is disable for the mentioned mirror instance |
| Raising event | N/A |
| Clearing event | N/A |

## 30.6 mirrorInstanceAdminEnable

*Table 528: mirrorInstanceAdminEnable properties*

| Property name | Value |
|---|---|
| Application name | mirror |
| Event name | mirrorInstanceAdminEnable |
| Default severity | warning |


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| Property name | Value |
|---|---|
| Message format string | Mirror instance *mirror_instance_name* has changed to administrative enable state |
| Cause | The mirror instance admin state has changed from disable to enable due to configuration change |
| Effect | The admin state is enable for the mentioned mirror instance |
| Raising event | N/A |
| Clearing event | N/A |

## 30.7 mirrorInstanceOperDown

*Table 529: mirrorInstanceOperDown properties*

| Property name | Value |
|---|---|
| Application name | mirror |
| Event name | mirrorInstanceOperDown |
| Default severity | critical |
| Message format string | Mirror instance *mirror_instance_name* has changed to operational down state due to *oper_down_reason* |
| Cause | The mirror instance oper state has changed from up to down |
| Effect | The oper state is down on the mentioned mirror instance |
| Raising event | N/A |
| Clearing event | N/A |

## 30.8 mirrorInstanceOperUp

*Table 530: mirrorInstanceOperUp properties*

| Property name | Value |
|---|---|
| Application name | mirror |
| Event name | mirrorInstanceOperUp |
| Default severity | warning |


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| Property name | Value |
|---|---|
| Message format string | Mirror instance *mirror_instance_name* has changed to operational up state |
| Cause | The mirror instance oper state has changed from down to up |
| Effect | The oper state is up for the mentioned mirror instance |
| Raising event | N/A |
| Clearing event | N/A |

## 30.9 mirrorSourceAdd

*Table 531: mirrorSourceAdd properties*

| Property name | Value |
|---|---|
| Application name | mirror |
| Event name | mirrorSourceAdd |
| Default severity | warning |
| Message format string | Mirror source *mirror_source* is added to configuration under mirror instance *mirror_instance_name* |
| Cause | Mirror source is added in configuration under the mentioned mirror instance |
| Effect | Packets on the mentioned mirror source will be mirrored towards the mirror destination configured under the mentioned mirror instance if mirror instance, mirror source and mirror dest are opernational up |
| Raising event | N/A |
| Clearing event | N/A |

## 30.10 mirrorSourceDelete

*Table 532: mirrorSourceDelete properties*

| Property name | Value |
|---|---|
| Application name | mirror |
| Event name | mirrorSourceDelete |


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| Property name | Value |
|---|---|
| Default severity | warning |
| Message format string | Mirror source *mirror_source* is removed from configuration under mirror instance *mirror_instance_name* |
| Cause | Mirror source is removed from configuration under the mentioned mirror instance |
| Effect | Packets on the mentioned mirror source will no longer be mirrorred towards the mirror destination configured under the mentioned mirror instance |
| Raising event | N/A |
| Clearing event | N/A |


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# 31 mld

## 31.1 mldCModeRxQueryVersionMismatch

*Table 533: mldCModeRxQueryVersionMismatch properties*

| Property name | Value |
|---|---|
| Application name | mld |
| Event name | mldCModeRxQueryVersionMismatch |
| Default severity | warning |
| Message format string | Network-instance *network_instance* - Mismatch between the interface *subinterface* compatible mode(*mldInterfaceOperVersion*) and the version of the MLD query (version *mldQuerierVersion*) received on the interface. |
| Cause | This event is generated when the MLD interface receives a query with a version that is higher than the interface's compatible mode. |
| Effect | MLD interfaces will ignore any Queries with a version higher than the interface's compatibility mode. |
| Raising event | N/A |
| Clearing event | N/A |

## 31.2 mldMaxNumberOfGroupSourcesReached

*Table 534: mldMaxNumberOfGroupSourcesReached properties*

| Property name | Value |
|---|---|
| Application name | mld |
| Event name | mldMaxNumberOfGroupSourcesReached |
| Default severity | warning |
| Message format string | Network-instance *network_instance* - The number of group/source combinations learned on interface *subinterface* has exceeded the maximum limit of *mldInterfaceMaxGroupSources*. |


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| Property name | Value |
|---|---|
| Cause | This event is generated when an attempt is made to learn a source when the number of group/source combinations on the MLD interface is equal to the maximum number of group-sources configured on the interface. |
| Effect | MLD interfaces will not learn any new sources for a given group when the configured maximum number of group-sources has been reached. |
| Raising event | N/A |
| Clearing event | N/A |

## 31.3 mldMaxNumberOfGroupsReached

*Table 535: mldMaxNumberOfGroupsReached properties*

| Property name | Value |
|---|---|
| Application name | mld |
| Event name | mldMaxNumberOfGroupsReached |
| Default severity | warning |
| Message format string | Network-instance *network_instance* - The number of groups learned on interface *subinterface* has exceeded the maximum limit of *mldInterface MaxGroups*. |
| Cause | This event is generated when an attempt is made to learn a group when the number of groups on the MLD interface is equal to the maximum number of groups configured on the interface. |
| Effect | MLD interfaces will not learn any new groups when the configured maximum number of groups has been reached. |
| Raising event | N/A |
| Clearing event | N/A |

## 31.4 mldMaxNumberOfSourcesReached

*Table 536: mldMaxNumberOfSourcesReached properties*

| Property name | Value |
|---|---|
| Application name | mld |


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| Property name | Value |
|---|---|
| Event name | mldMaxNumberOfSourcesReached |
| Default severity | warning |
| Message format string | Network-instance *network_instance* - The number of sources learned on interface *subinterface* has exceeded the maximum limit of *mld InterfaceMaxSources*. |
| Cause | This event is generated when an attempt is made to learn a source when the number of sources for this group on the MLD interface is equal to the maximum number of sources per group configured on the interface. |
| Effect | MLD interfaces will not learn any new sources for a given group when the configured maximum number of sources for the group has been reached. |
| Raising event | N/A |
| Clearing event | N/A |

## 31.5 mldRxQueryVersionMismatch

*Table 537: mldRxQueryVersionMismatch properties*

| Property name | Value |
|---|---|
| Application name | mld |
| Event name | mldRxQueryVersionMismatch |
| Default severity | warning |
| Message format string | Network-instance *network_instance* - MLDv*mldQuerierVersion* query received on interface *subinterface* configured as MLDv *mldInterface AdminVersion*. |
| Cause | This event is generated when the MLD interface is configured as MLDv2 and receives an MLDv1 General Query. |
| Effect | MLD interfaces configured as MLDv2 will ignore MLDv1 General Queries. |
| Raising event | N/A |
| Clearing event | N/A |


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# 32 netconf

## 32.1 netconfHello

*Table 538: netconfHello properties*

| Property name | Value |
|---|---|
| Application name | netconf |
| Event name | netconfHello |
| Default severity | notice |
| Message format string | Netconf session *session_id* hello received from remote host. |
| Cause | The hello message was received over the session. |
| Effect | None. |
| Raising event | N/A |
| Clearing event | N/A |

## 32.2 netconfRpcError

*Table 539: netconfRpcError properties*

| Property name | Value |
|---|---|
| Application name | netconf |
| Event name | netconfRpcError |
| Default severity | notice |
| Message format string | Netconf session *session_id rpc* message-id *message_id* completed with an error: *error_message* |
| Cause | The rpc message was processed with an error. |
| Effect | None. |
| Raising event | N/A |
| Clearing event | N/A |


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## 32.3 netconfRpcReply

*Table 540: netconfRpcReply properties*

| Property name | Value |
|---|---|
| Application name | netconf |
| Event name | netconfRpcReply |
| Default severity | debug |
| Message format string | Netconf session *session_id rpc* message-id *message_id* reply: *data* |
| Cause | The rpc message was processed. |
| Effect | None. |
| Raising event | N/A |
| Clearing event | N/A |

## 32.4 netconfRpcRequest

*Table 541: netconfRpcRequest properties*

| Property name | Value |
|---|---|
| Application name | netconf |
| Event name | netconfRpcRequest |
| Default severity | debug |
| Message format string | Netconf session *session_id rpc* message-id *message_id* request: *data* |
| Cause | The rpc message was received over the session. |
| Effect | None. |
| Raising event | N/A |
| Clearing event | N/A |


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## 32.5 netconfRpcStart

*Table 542: netconfRpcStart properties*

| Property name | Value |
|---|---|
| Application name | netconf |
| Event name | netconfRpcStart |
| Default severity | notice |
| Message format string | Netconf session *session_id rpc* message-id *message_id* processing started. |
| Cause | The rpc message was received over the session. |
| Effect | None. |
| Raising event | N/A |
| Clearing event | N/A |

## 32.6 netconfRpcSuccess

*Table 543: netconfRpcSuccess properties*

| Property name | Value |
|---|---|
| Application name | netconf |
| Event name | netconfRpcSuccess |
| Default severity | notice |
| Message format string | Netconf session *session_id rpc* message-id *message_id* processing completed with success. |
| Cause | The rpc message was processed successfully. |
| Effect | None. |
| Raising event | N/A |
| Clearing event | N/A |


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## 32.7 netconfServerSocketCreated

*Table 544: netconfServerSocketCreated properties*

| Property name | Value |
|---|---|
| Application name | netconf |
| Event name | netconfServerSocketCreated |
| Default severity | notice |
| Message format string | Netconf server instance *server_name* listening on *socket*. |
| Cause | The Netconf server instance has been successfully bound to socket. |
| Effect | The Netconf server instance is listening on the socket. |
| Raising event | N/A |
| Clearing event | N/A |

## 32.8 netconfServerSocketError

*Table 545: netconfServerSocketError properties*

| Property name | Value |
|---|---|
| Application name | netconf |
| Event name | netconfServerSocketError |
| Default severity | error |
| Message format string | Netconf server instance *server_name* failed to listen on socket *socket* because *oper_down_str errno_str*. |
| Cause | The Netconf server instance encountered problem with creation or usage of socket. |
| Effect | The Netconf server instance is not listening for connections. |
| Raising event | N/A |
| Clearing event | N/A |


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## 32.9 netconfSessionClosed

*Table 546: netconfSessionClosed properties*

| Property name | Value |
|---|---|
| Application name | netconf |
| Event name | netconfSessionClosed |
| Default severity | notice |
| Message format string | Netconf session *session_id* closed for user *user_name* for remote host *remote_host* network-instance *net_inst* over *transport*. |
| Cause | The specified session closed on the system. |
| Effect | The specified session is now disconnected. |
| Raising event | N/A |
| Clearing event | N/A |

## 32.10 netconfSessionDisconnected

*Table 547: netconfSessionDisconnected properties*

| Property name | Value |
|---|---|
| Application name | netconf |
| Event name | netconfSessionDisconnected |
| Default severity | notice |
| Message format string | Netconf session *session_id* for user *user_name* for remote host *remote_host* killed by administrative action. |
| Cause | The specified session has been disconnected from the system by an administrators action. |
| Effect | The specified session will be disconnected. |
| Raising event | N/A |
| Clearing event | N/A |


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## 32.11 netconfSessionKilled

*Table 548: netconfSessionKilled properties*

| Property name | Value |
|---|---|
| Application name | netconf |
| Event name | netconfSessionKilled |
| Default severity | notice |
| Message format string | Netconf session *session_id* for user *user_name* for remote host *remote_host* killed by Netconf session *kill_session_id*. |
| Cause | The specified session has been disconnected from the system by other netconf session. |
| Effect | The specified session will be disconnected. |
| Raising event | N/A |
| Clearing event | N/A |

## 32.12 netconfSessionOpened

*Table 549: netconfSessionOpened properties*

| Property name | Value |
|---|---|
| Application name | netconf |
| Event name | netconfSessionOpened |
| Default severity | notice |
| Message format string | Netconf session *session_id* opened for user *user_name* from remote host *remote_host* network-instance *net_inst* over *transport*. |
| Cause | The specified user has opened a session on the system. |
| Effect | None. |
| Raising event | N/A |
| Clearing event | N/A |


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# 33 netinst

## 33.1 networkInstanceInterfaceDown

*Table 550: networkInstanceInterfaceDown properties*

| Property name | Value |
|---|---|
| Application name | netinst |
| Event name | networkInstanceInterfaceDown |
| Default severity | warning |
| Message format string | The interface *networkinstance_interface_name* in network-instance *networkinstance_name* is now down for reason: *oper_down_reason* |
| Cause | This event is generated when the network instance interface has transitioned from the up state to the down state |
| Effect | The network instance interface is now down |
| Raising event | N/A |
| Clearing event | N/A |

## 33.2 networkInstanceInterfaceUp

*Table 551: networkInstanceInterfaceUp properties*

| Property name | Value |
|---|---|
| Application name | netinst |
| Event name | networkInstanceInterfaceUp |
| Default severity | notice |
| Message format string | The interface *networkinstance_interface_name* in network-instance *networkinstance_name* is now up |
| Cause | This event is generated when the network instance interface has transitioned from the down state to the up state. |
| Effect | The network instance interface is now up |


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| Property name | Value |
|---|---|
| Raising event | N/A |
| Clearing event | N/A |

## 33.3 networkInstanceStateDown

*Table 552: networkInstanceStateDown properties*

| Property name | Value |
|---|---|
| Application name | netinst |
| Event name | networkInstanceStateDown |
| Default severity | warning |
| Message format string | Network Instance *networkinstance_name* is now down |
| Cause | The network instance has transitioned from the up state to the down state |
| Effect | The network instance is now down |
| Raising event | N/A |
| Clearing event | N/A |

## 33.4 networkInstanceStateUp

*Table 553: networkInstanceStateUp properties*

| Property name | Value |
|---|---|
| Application name | netinst |
| Event name | networkInstanceStateUp |
| Default severity | notice |
| Message format string | Network Instance *networkinstance_name* is now up |
| Cause | The network instance has transitioned from the down state to the up state |
| Effect | The network instance is now up |
| Raising event | N/A |


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| Property name | Value |
| --- | --- |
| Clearing event | N/A |


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# 34 oam_pm

## 34.1 ThresholdDelayEventClear

*Table 554: ThresholdDelayEventClear properties*

| Property name | Value |
|---|---|
| Application name | oam_pm |
| Event name | ThresholdDelayEventClear |
| Default severity | warning |
| Message format string | OAM performance monitoring delay threshold cleared for session *session-name mi-duration* measurement interval index *index* started *start-time* threshold type *threshold-event-type* in the *direction* direction delay metric *bin-type* bin lower bound *bin-lower-bound* meets the clear threshold criteria *clear-threshold*, TCA type *tca-type*, operational value *operational-value*, suspect status *mi-suspect-status* |
| Cause | This event is generated when a delay metric count is lower than the clear threshold, clearing the event. |
| Effect | None. |
| Raising event | N/A |
| Clearing event | N/A |

## 34.2 ThresholdDelayEventRaise

*Table 555: ThresholdDelayEventRaise properties*

| Property name | Value |
|---|---|
| Application name | oam_pm |
| Event name | ThresholdDelayEventRaise |
| Default severity | warning |
| Message format string | OAM performance monitoring delay raise threshold trigger for session *session-name mi-duration* measurement interval index *index* started *start-time* threshold type *threshold-event-type* in the *direction* direction delay metric *bin-type* bin lower bound *bin-lower-bound* exceeding the |


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| Property name | Value |
|---|---|
| | raise threshold *raise-threshold*, TCA type *tca-type*, operational value *operational-value*, suspect status *mi-suspect-status* |
| Cause | This event is generated when a delay metric count exceeds the raise threshold. |
| Effect | None. |
| Raising event | N/A |
| Clearing event | N/A |

## 34.3 ThresholdLossEventClear

*Table 556: ThresholdLossEventClear properties*

| Property name | Value |
|---|---|
| Application name | oam_pm |
| Event name | ThresholdLossEventClear |
| Default severity | warning |
| Message format string | OAM performance monitoring loss threshold cleared for session *session-name mi-duration* measurement interval index *index* started *start-time* threshold type *threshold-event-type* in the *direction* direction meets the clear threshold criteria *clear-threshold*, TCA type *tca-type*, operational value *operational-value*, suspect status *mi-suspect-status* |
| Cause | This event is generated when a loss metric count is lower than the clear threshold, clearing the event. |
| Effect | None. |
| Raising event | N/A |
| Clearing event | N/A |

## 34.4 ThresholdLossEventRaise

*Table 557: ThresholdLossEventRaise properties*

| Property name | Value |
|---|---|
| Application name | oam_pm |


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| Property name | Value |
|---|---|
| Event name | ThresholdLossEventRaise |
| Default severity | warning |
| Message format string | OAM performance monitoring loss raise threshold trigger for session *session-name mi-duration* measurement interval index *index* started *start-time* threshold type *threshold-event-type* in the *direction* direction exceeding the raise threshold *raise-threshold*, TCA type *tca-type*, operational value *operational-value*, suspect status *mi-suspect-status* |
| Cause | This event is generated when a loss metric count exceeds the raise threshold. |
| Effect | None. |
| Raising event | N/A |
| Clearing event | N/A |


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# 35 ospf

## 35.1 ospfAdjacencyBfdSessionSetupFailed

*Table 558: ospfAdjacencyBfdSessionSetupFailed properties*

| Property name | Value |
|---|---|
| Application name | ospf |
| Event name | ospfAdjacencyBfdSessionSetupFailed |
| Default severity | warning |
| Message format string | Network-instance *network_instance* - OSPF instance *ospfInstance*: BFD session setup failed for the OSPF neighbor *ospfNbrRtrId*, using interface *subinterface*. Failure reason: *bfd_failure_reason*. |
| Cause | This event is generated when BFD session setup fails with an adjacent OSPF neighbor. |
| Effect | Fast failure detection may not be possible. |
| Raising event | N/A |
| Clearing event | N/A |

## 35.2 ospfAdjacencyChange

*Table 559: ospfAdjacencyChange properties*

| Property name | Value |
|---|---|
| Application name | ospf |
| Event name | ospfAdjacencyChange |
| Default severity | warning |
| Message format string | Network-instance *network_instance* - OSPF instance *ospfInstance*: Adjacency with neighbor *ospfNbrRtrId*, using interface *subinterface*, moved to state *ospfNbrState* due to event *ospfNbrEvent*. |
| Cause | This event is generated when an OSPF Neighbor changes state. |


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| Property name | Value |
|---|---|
| Effect | OSPF routing information can only utilized from neighbors in an up state. |
| Raising event | N/A |
| Clearing event | N/A |

## 35.3 ospfAdjacencyRestartStatusChange

*Table 560: ospfAdjacencyRestartStatusChange properties*

| Property name | Value |
|---|---|
| Application name | ospf |
| Event name | ospfAdjacencyRestartStatusChange |
| Default severity | warning |
| Message format string | Network-instance *network_instance* - OSPF instance *ospfInstance*: The graceful restart status for OSPF neighbor *ospfNbrRtrId* on interface *subinterface* moved to new state *restart_status*. |
| Cause | This event is generated when the graceful restart status of a neighbor changes. |
| Effect | None |
| Raising event | N/A |
| Clearing event | N/A |

## 35.4 ospfAsMaxAgeLSA

*Table 561: ospfAsMaxAgeLSA properties*

| Property name | Value |
|---|---|
| Application name | ospf |
| Event name | ospfAsMaxAgeLSA |
| Default severity | warning |
| Message format string | Network-instance *network_instance* - OSPF instance *ospfInstance* area *ospfAreaId*: Max aged LSA *ospfLsdbLsid* type *ospfLsdbType* advertising router *ospfLsdbRtrId*. |


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| Property name | Value |
|---|---|
| Cause | One of the LSAs in the router's link-state database has reached its maximum age limit. |
| Effect | The Max Age LSA will be flushed from the LSDB. |
| Raising event | N/A |
| Clearing event | N/A |

## 35.5 ospfExportLimitReached

*Table 562: ospfExportLimitReached properties*

| Property name | Value |
|---|---|
| Application name | ospf |
| Event name | ospfExportLimitReached |
| Default severity | warning |
| Message format string | Network-instance *network_instance* - OSPF instance *ospfInstance*: The export-limit *ospfExportLimit* is reached, additional routes will not be exported by OSPF. |
| Cause | This event is generated when OSPF has exported the maximum number of routes. |
| Effect | OSPF will not export any more routes. |
| Raising event | N/A |
| Clearing event | N/A |

## 35.6 ospfExportLimitWarning

*Table 563: ospfExportLimitWarning properties*

| Property name | Value |
|---|---|
| Application name | ospf |
| Event name | ospfExportLimitWarning |
| Default severity | warning |


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| Property name | Value |
|---|---|
| Message format string | Network-instance *network_instance* - OSPF instance *ospfInstance*: OSPF has reached *ospfExportLimitLogPercent*% of the export-limit *ospfExportLimit*. |
| Cause | This event is generated when OSPF has exported the maximum number of routes. |
| Effect | OSPF will not export any more routes. |
| Raising event | N/A |
| Clearing event | N/A |

## 35.7 ospfFailure

*Table 564: ospfFailure properties*

| Property name | Value |
|---|---|
| Application name | ospf |
| Event name | ospfFailure |
| Default severity | warning |
| Message format string | Network-instance *network_instance* - OSPF instance *ospfInstance*: has failed due to *ospfFailureReason*. |
| Cause | OSPF encountered an event forcing it to go down. |
| Effect | OSPF goes down and will restart after a timout. |
| Raising event | N/A |
| Clearing event | N/A |

## 35.8 ospfIfLdpSyncStateChange

*Table 565: ospfIfLdpSyncStateChange properties*

| Property name | Value |
|---|---|
| Application name | ospf |
| Event name | ospfIfLdpSyncStateChange |
| Default severity | warning |


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| Property name | Value |
|---|---|
| Message format string | Network-instance *network_instance* - OSPF instance *ospfInstance*: Interface *subinterface*, ldp-sync-state moved to state *ospfIfLdpSync State* |
| Cause | This event is generated when an OSPF interface ldp-synchronization changes state. |
| Effect | Metric of the interface changes to or from infinity. |
| Raising event | N/A |
| Clearing event | N/A |

## 35.9 ospfIfRxBadPacket

*Table 566: ospfIfRxBadPacket properties*

| Property name | Value |
|---|---|
| Application name | ospf |
| Event name | ospfIfRxBadPacket |
| Default severity | warning |
| Message format string | Network-instance *network_instance* - OSPF instance *ospfInstance*: A bad packet was received on interface *subinterface* from *ospfPacketSrc Address* in packet type *ospfPacketType* |
| Cause | This event is generated An OSPF packet has been received on an interface that cannot be parsed. |
| Effect | Bad packet is discarded |
| Raising event | N/A |
| Clearing event | N/A |

## 35.10 ospfIfStateChange

*Table 567: ospfIfStateChange properties*

| Property name | Value |
|---|---|
| Application name | ospf |
| Event name | ospfIfStateChange |


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| Property name | Value |
|---|---|
| Default severity | warning |
| Message format string | Network-instance *network_instance* - OSPF instance *ospfInstance*: Interface *subinterface*, moved to state *ospfIfState* due to event *ospf IfEvent* |
| Cause | This event is generated when an OSPF interface changes state. |
| Effect | An OSPF adjacency can not be established if the interface state is down or loop. |
| Raising event | N/A |
| Clearing event | N/A |

## 35.11 ospfLsdbApproachingOverflow

*Table 568: ospfLsdbApproachingOverflow properties*

| Property name | Value |
|---|---|
| Application name | ospf |
| Event name | ospfLsdbApproachingOverflow |
| Default severity | warning |
| Message format string | Network-instance *network_instance* - OSPF instance *ospfInstance*: The number of external LSAs has exceeded 90% of the configured limit *ospfExtLsdbLimit*. |
| Cause | The number of external LSAs in the router's link-state database has exceeded ninety percent of the configured limit. |
| Effect | Warning only, normal behavior will continue. |
| Raising event | N/A |
| Clearing event | N/A |

## 35.12 ospfLsdbOverflow

*Table 569: ospfLsdbOverflow properties*

| Property name | Value |
|---|---|
| Application name | ospf |


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| Property name | Value |
|---|---|
| Event name | ospfLsdbOverflow |
| Default severity | warning |
| Message format string | Network-instance *network_instance* - OSPF instance *ospfInstance*: The number of external LSAs has exceeded the configured limit *ospfExt LsdbLimit*. |
| Cause | The number of external LSAs in the router's link-state database has exceeded the configured limit. |
| Effect | No additional external LSA will be added. |
| Raising event | N/A |
| Clearing event | N/A |

## 35.13 ospfNbrMtuMismatch

*Table 570: ospfNbrMtuMismatch properties*

| Property name | Value |
|---|---|
| Application name | ospf |
| Event name | ospfNbrMtuMismatch |
| Default severity | warning |
| Message format string | Network-instance *network_instance* - OSPF instance *ospfInstance*: Neighbor *ospfNbrRtrId*, using interface *subinterface*, signaled an unacceptable MTU. |
| Cause | This event is generated when an OSPF Neighbor signals an incorrect MTU. |
| Effect | An OSPF adjacency cannot be established if there is an MTU mismatch. |
| Raising event | N/A |
| Clearing event | N/A |


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## 35.14 ospfOverloadEntry

*Table 571: ospfOverloadEntry properties*

| Property name | Value |
|---|---|
| Application name | ospf |
| Event name | ospfOverloadEntry |
| Default severity | warning |
| Message format string | Network-instance *network_instance* - OSPF instance *ospfInstance*: the LSDB database has entered the overload state due to *ospfOverload Reason*. |
| Cause | Overload bit configuration |
| Effect | No transit traffic is routed through the overloaded router. |
| Raising event | N/A |
| Clearing event | N/A |

## 35.15 ospfOverloadExit

*Table 572: ospfOverloadExit properties*

| Property name | Value |
|---|---|
| Application name | ospf |
| Event name | ospfOverloadExit |
| Default severity | warning |
| Message format string | Network-instance *network_instance* - OSPF instance *ospfInstance*: the LSDB database has exited the overload state. |
| Cause | Overload bit cleared |
| Effect | The OSPF instance has cleared the overload state. |
| Raising event | N/A |
| Clearing event | N/A |


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## 35.16 ospfOverloadWarning

*Table 573: ospfOverloadWarning properties*

| Property name | Value |
|---|---|
| Application name | ospf |
| Event name | ospfOverloadWarning |
| Default severity | warning |
| Message format string | Network-instance *network_instance* - OSPF instance *ospfInstance*: *ospfOverloadReason*. |
| Cause | Overload bit configuration |
| Effect | No transit traffic is routed through the overloaded router. |
| Raising event | N/A |
| Clearing event | N/A |

## 35.17 ospfSpfRunRestarted

*Table 574: ospfSpfRunRestarted properties*

| Property name | Value |
|---|---|
| Application name | ospf |
| Event name | ospfSpfRunRestarted |
| Default severity | warning |
| Message format string | Network-instance *network_instance* - OSPF instance *ospfInstance*: SPF runs resumed - memory resources available. |
| Cause | There are sufficient memory resources on the system to run the SPF to completion. |
| Effect | OSPF stops running SPFs until enough memory resources become availableOSPF will resume running the SPFs as required. |
| Raising event | N/A |
| Clearing event | N/A |


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## 35.18 ospfSpfRunsStopped

*Table 575: ospfSpfRunsStopped properties*

| Property name | Value |
|---|---|
| Application name | ospf |
| Event name | ospfSpfRunsStopped |
| Default severity | warning |
| Message format string | Network-instance *network_instance* - OSPF instance *ospfInstance*: SPF runs stopped - insufficient memory resources. |
| Cause | There are insufficient memory resources on the system to run the SPF to completion. |
| Effect | OSPF stops running SPFs until enough memory resources become available. |
| Raising event | N/A |
| Clearing event | N/A |

## 35.19 ospIfAuthDataFailure

*Table 576: ospIfAuthDataFailure properties*

| Property name | Value |
|---|---|
| Application name | ospf |
| Event name | ospIfAuthDataFailure |
| Default severity | warning |
| Message format string | Network-instance *network_instance* - OSPF instance *ospfInstance*: A packet received on interface *subinterface* from *ospfPacketSrcAddress* and packet type *ospfPacketType*, failed authentication with *ospfAuth Error* |
| Cause | This event is caused by interface from a router whose authentication key or authentication type conflicts with this router's authentication key or authentication type. |
| Effect | PDUs are dropped, with the effect depending on the PDU type |
| Raising event | N/A |


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| Property name | Value |
| --- | --- |
| Clearing event | N/A |


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# 36 pim

## 36.1 pimGroupInSSMRange

*Table 577: pimGroupInSSMRange properties*

| Property name | Value |
|---|---|
| Application name | pim |
| Event name | pimGroupInSSMRange |
| Default severity | warning |
| Message format string | Network-instance *network_instance* - received *message_type* message on interface *subinterface* for group *group_address* which is in SSM group range |
| Cause | The router received a register message, a (*,G) assert message, a (*,G) Join Prune message or a IGMP local membership message for the group defined in SSM address range |
| Effect | none |
| Raising event | N/A |
| Clearing event | N/A |

## 36.2 pimIfNeighborLoss

*Table 578: pimIfNeighborLoss properties*

| Property name | Value |
|---|---|
| Application name | pim |
| Event name | pimIfNeighborLoss |
| Default severity | warning |
| Message format string | Network-instance *network_instance* - lost adjacency with neighbor *neighbor_address* on interface *subinterface* |
| Cause | A PIM adjacency with a neighbor was lost. |
| Effect | none |


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| Property name | Value |
|---|---|
| Raising event | N/A |
| Clearing event | N/A |

## 36.3 pimIfNeighborUp

*Table 579: pimIfNeighborUp properties*

| Property name | Value |
|---|---|
| Application name | pim |
| Event name | pimIfNeighborUp |
| Default severity | warning |
| Message format string | Network-instance *network_instance* - adjacency with neighbor *neighbor_address* on interface *subinterface* came up |
| Cause | A PIM adjacency with a new neighbor was established. |
| Effect | none |
| Raising event | N/A |
| Clearing event | N/A |

## 36.4 pimInvalidJoinPrune

*Table 580: pimInvalidJoinPrune properties*

| Property name | Value |
|---|---|
| Application name | pim |
| Event name | pimInvalidJoinPrune |
| Default severity | warning |
| Message format string | Network-instance *network_instance* - received invalid Join Prune message from *source_address* with RP address *wrong_rp_address* for group *group_address*. Correct RP address for the group is *rp_address* |
| Cause | An invalid Join Prune message was received. A Join Prune message is deemded invalid when there is an RP address disagreement between the router and the PIM Join Prune message. |


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| Property name | Value |
|---|---|
| Effect | The JP is is dropped |
| Raising event | N/A |
| Clearing event | N/A |

## 36.5 pimInvalidRegister

*Table 581: pimInvalidRegister properties*

| Property name | Value |
|---|---|
| Application name | pim |
| Event name | pimInvalidRegister |
| Default severity | warning |
| Message format string | Network-instance *network_instance* - received invalid Register message from *source_address* with RP address *wrong_rp_address* for group *group_address*. Correct RP address for the group is *rp_address* |
| Cause | An invalid PIM Register message was received. A Register message is deemded invalid when there is an RP address disagreement between the router and the PIM Register message. |
| Effect | The Register is is dropped |
| Raising event | N/A |
| Clearing event | N/A |


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# 37 mld

## 37.1 mldCModeRxQueryVersionMismatch

*Table 582: mldCModeRxQueryVersionMismatch properties*

| Property name | Value |
|---|---|
| Application name | mld |
| Event name | mldCModeRxQueryVersionMismatch |
| Default severity | warning |
| Message format string | Network-instance *network_instance* - Mismatch between the interface *subinterface* compatible mode(*mldInterfaceOperVersion*) and the version of the MLD query (version *mldQuerierVersion*) received on the interface. |
| Cause | This event is generated when the MLD interface receives a query with a version that is higher than the interface's compatible mode. |
| Effect | MLD interfaces will ignore any Queries with a version higher than the interface's compatibility mode. |
| Raising event | N/A |
| Clearing event | N/A |

## 37.2 mldMaxNumberOfGroupSourcesReached

*Table 583: mldMaxNumberOfGroupSourcesReached properties*

| Property name | Value |
|---|---|
| Application name | mld |
| Event name | mldMaxNumberOfGroupSourcesReached |
| Default severity | warning |
| Message format string | Network-instance *network_instance* - The number of group/source combinations learned on interface *subinterface* has exceeded the maximum limit of *mldInterfaceMaxGroupSources*. |


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| Property name | Value |
|---|---|
| Cause | This event is generated when an attempt is made to learn a source when the number of group/source combinations on the MLD interface is equal to the maximum number of group-sources configured on the interface. |
| Effect | MLD interfaces will not learn any new sources for a given group when the configured maximum number of group-sources has been reached. |
| Raising event | N/A |
| Clearing event | N/A |

## 37.3 mldMaxNumberOfGroupsReached

*Table 584: mldMaxNumberOfGroupsReached properties*

| Property name | Value |
|---|---|
| Application name | mld |
| Event name | mldMaxNumberOfGroupsReached |
| Default severity | warning |
| Message format string | Network-instance *network_instance* - The number of groups learned on interface *subinterface* has exceeded the maximum limit of *mldInterface MaxGroups*. |
| Cause | This event is generated when an attempt is made to learn a group when the number of groups on the MLD interface is equal to the maximum number of groups configured on the interface. |
| Effect | MLD interfaces will not learn any new groups when the configured maximum number of groups has been reached. |
| Raising event | N/A |
| Clearing event | N/A |

## 37.4 mldMaxNumberOfSourcesReached

*Table 585: mldMaxNumberOfSourcesReached properties*

| Property name | Value |
|---|---|
| Application name | mld |


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| Property name | Value |
|---|---|
| Event name | mldMaxNumberOfSourcesReached |
| Default severity | warning |
| Message format string | Network-instance *network_instance* - The number of sources learned on interface *subinterface* has exceeded the maximum limit of *mld InterfaceMaxSources*. |
| Cause | This event is generated when an attempt is made to learn a source when the number of sources for this group on the MLD interface is equal to the maximum number of sources per group configured on the interface. |
| Effect | MLD interfaces will not learn any new sources for a given group when the configured maximum number of sources for the group has been reached. |
| Raising event | N/A |
| Clearing event | N/A |

## 37.5 mldRxQueryVersionMismatch

*Table 586: mldRxQueryVersionMismatch properties*

| Property name | Value |
|---|---|
| Application name | mld |
| Event name | mldRxQueryVersionMismatch |
| Default severity | warning |
| Message format string | Network-instance *network_instance* - MLDv*mldQuerierVersion* query received on interface *subinterface* configured as MLDv *mldInterface AdminVersion*. |
| Cause | This event is generated when the MLD interface is configured as MLDv2 and receives an MLDv1 General Query. |
| Effect | MLD interfaces configured as MLDv2 will ignore MLDv1 General Queries. |
| Raising event | N/A |
| Clearing event | N/A |


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# 38 platform

## 38.1 airflowCorrected

*Table 587: airflowCorrected properties*

| Property name | Value |
|---|---|
| Application name | platform |
| Event name | airflowCorrected |
| Default severity | notice |
| Message format string | The *type* in slot *slot* now matches the dominant airflow of other modules in the system |
| Cause | The specified module is now part of the majority (either front to back, or back to front) fans + PSUs in the system. This clearance is triggered when a module moves from being part of the minority to the majority, typically through other modules being plugged/unplugged. |
| Effect | The specified module is providing correct airflow to the system. |
| Raising event | airflowMismatch |
| Clearing event | N/A |

## 38.2 airflowMismatch

*Table 588: airflowMismatch properties*

| Property name | Value |
|---|---|
| Application name | platform |
| Event name | airflowMismatch |
| Default severity | emergency |
| Message format string | The *type* in slot *slot* does not match the airflow of other modules in the system |
| Cause | The inserted module does not match the airflow direction of other modules in the system. |


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| Property name | Value |
|---|---|
| Effect | The system is working with inefficient cooling, and may trigger thermal protection. |
| Raising event | N/A |
| Clearing event | airflowCorrected |

## 38.3 componentBooting

*Table 589: componentBooting properties*

| Property name | Value |
|---|---|
| Application name | platform |
| Event name | componentBooting |
| Default severity | informational |
| Message format string | Component *type slot* has started initialization |
| Cause | The componentBooting event is generated when the active control module has started initializing the component. |
| Effect | The specified component has started initializing. |
| Raising event | N/A |
| Clearing event | N/A |

## 38.4 componentDown

*Table 590: componentDown properties*

| Property name | Value |
|---|---|
| Application name | platform |
| Event name | componentDown |
| Default severity | critical |
| Message format string | Component *type slot* is no longer operational |
| Cause | The componentDown event is generated when a component has transitioned from any other operational state to the down state. |


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| Property name | Value |
|---|---|
| Effect | The specified component is now down. |
| Raising event | N/A |
| Clearing event | componentUp |

## 38.5 componentFailed

*Table 591: componentFailed properties*

| Property name | Value |
|---|---|
| Application name | platform |
| Event name | componentFailed |
| Default severity | emergency |
| Message format string | Component *type slot* has failed, reason *reason* |
| Cause | The componentFailed event is generated when a component has transitioned from any other operational state to the failed state. |
| Effect | The specified component is now failed. |
| Raising event | N/A |
| Clearing event | componentUp |

## 38.6 componentInserted

*Table 592: componentInserted properties*

| Property name | Value |
|---|---|
| Application name | platform |
| Event name | componentInserted |
| Default severity | notice |
| Message format string | Component *type slot* has been inserted into the system |
| Cause | The componentInserted event is generated when a component has been initially detected by the active control module. |
| Effect | The specified component is detected. |


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| Property name | Value |
|---|---|
| Raising event | componentRemoved, fantrayEmpty |
| Clearing event | N/A |

## 38.7 componentInsertedInInvalidSlot

*Table 593: componentInsertedInInvalidSlot properties*

| Property name | Value |
|---|---|
| Application name | platform |
| Event name | componentInsertedInInvalidSlot |
| Default severity | warning |
| Message format string | Component *type* is inserted in invalid slot *slot* |
| Cause | The componentInsertedInInvalidSlot event is generated when a component is being inserted in invalid slot. |
| Effect | The specified component will not be taken into use. |
| Raising event | N/A |
| Clearing event | N/A |

## 38.8 componentLocatorDisabled

*Table 594: componentLocatorDisabled properties*

| Property name | Value |
|---|---|
| Application name | platform |
| Event name | componentLocatorDisabled |
| Default severity | notice |
| Message format string | Locator LED disabled on *type slot* |
| Cause | The componentLocatorDisabled event is generated when the locator LED for the component has been disabled, either via timeout, or via operator action. |
| Effect | The specified component's LED is no longer flashing with locator functionality. |


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| Property name | Value |
|---|---|
| Raising event | N/A |
| Clearing event | N/A |

## 38.9 componentLocatorEnabled

*Table 595: componentLocatorEnabled properties*

| Property name | Value |
|---|---|
| Application name | platform |
| Event name | componentLocatorEnabled |
| Default severity | notice |
| Message format string | Locator LED enabled on *type slot* for *duration* seconds |
| Cause | The componentLocatorEnabled event is generated when the locator LED for the component has been enabled by an operator action. |
| Effect | The specified component's LED is now flashing with locator functionality. |
| Raising event | N/A |
| Clearing event | N/A |

## 38.10 componentPowerDown

*Table 596: componentPowerDown properties*

| Property name | Value |
|---|---|
| Application name | platform |
| Event name | componentPowerDown |
| Default severity | critical |
| Message format string | Component *type slot* is being powered down due to insufficient power capacity |
| Cause | The componentPowerDown event is generated when a component is being powered off by the active control module as a means to bring the overall power consumption of the chassis down to a level the available power supplies are able to accommodate. |


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| Property name | Value |
|---|---|
| Effect | The specified component is powering down. |
| Raising event | N/A |
| Clearing event | componentPowerUp |

## 38.11 componentPowerUp

*Table 597: componentPowerUp properties*

| Property name | Value |
|---|---|
| Application name | platform |
| Event name | componentPowerUp |
| Default severity | warning |
| Message format string | Component *type slot* is being powered up due to sufficient power capacity |
| Cause | The componentPowerUp event is generated when a component is being powered on by the active control module, following on from a power down as a result of insufficient power supplies. This event is not generated during normal power on events. |
| Effect | The specified component is powering on. |
| Raising event | componentPowerDown |
| Clearing event | N/A |

## 38.12 componentRemoved

*Table 598: componentRemoved properties*

| Property name | Value |
|---|---|
| Application name | platform |
| Event name | componentRemoved |
| Default severity | critical |
| Message format string | Component *type slot* has been removed from the system |


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| Property name | Value |
|---|---|
| Cause | The componentRemoved event is generated when a component has is no longer detected in the system. This does not necessarily indicate that the component has been physically removed, but indicates that it is no longer detected by the active control module. |
| Effect | The specified component is no longer detected by the active control module. |
| Raising event | N/A |
| Clearing event | componentInserted |

## 38.13 componentRestarted

*Table 599: componentRestarted properties*

| Property name | Value |
|---|---|
| Application name | platform |
| Event name | componentRestarted |
| Default severity | critical |
| Message format string | Component *type slot* has been restarted |
| Cause | The componentRestarting event is generated when the a component has been restarted. |
| Effect | The specified component has been restarted. |
| Raising event | N/A |
| Clearing event | N/A |

## 38.14 componentTemperatureExceeded

*Table 600: componentTemperatureExceeded properties*

| Property name | Value |
|---|---|
| Application name | platform |
| Event name | componentTemperatureExceeded |
| Default severity | warning |


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| Property name | Value |
|---|---|
| Message format string | Component *type slot* has exceeded its temperature threshold, current temperature *temperature*C |
| Cause | The componentTemperatureExceeded event is generated when the component has exceeded its temperature threshold. |
| Effect | The specified component has a temperature sensor that is overheating, the component may shut down by thermal protection. |
| Raising event | N/A |
| Clearing event | componentTemperatureNormal |

## 38.15 componentTemperatureFailure

*Table 601: componentTemperatureFailure properties*

| Property name | Value |
|---|---|
| Application name | platform |
| Event name | componentTemperatureFailure |
| Default severity | emergency |
| Message format string | Component *type slot* has exceeded its safe operating temperature, component will be powered down in 10 seconds. Current temperature *temperature*C |
| Cause | The componentTemperatureFailure event is generated when the component has exceeded its maximum temperature. |
| Effect | The specified component has a temperature sensor that has overheated, the component will shut down in 10 seconds for thermal protection. |
| Raising event | N/A |
| Clearing event | componentTemperatureNormal |

## 38.16 componentTemperatureNormal

*Table 602: componentTemperatureNormal properties*

| Property name | Value |
|---|---|
| Application name | platform |


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| Property name | Value |
|---|---|
| Event name | componentTemperatureNormal |
| Default severity | notice |
| Message format string | Component *type slot* temperature is now normal, current temperature *temperature*C |
| Cause | The componentTemperatureNormal event is generated when the component has recovered from a temperature exceeded state. |
| Effect | The specified component is now within temperature operating limits. |
| Raising event | componentTemperatureExceeded, componentTemperatureFailure |
| Clearing event | N/A |

## 38.17 componentUp

*Table 603: componentUp properties*

| Property name | Value |
|---|---|
| Application name | platform |
| Event name | componentUp |
| Default severity | notice |
| Message format string | Component *type slot* is now operational |
| Cause | The componentUp event is generated when a component has transitioned from any other operational state to the up state. |
| Effect | The specified component is now up. |
| Raising event | componentDown, componentFailed |
| Clearing event | N/A |

## 38.18 controlModuleActivityChange

*Table 604: controlModuleActivityChange properties*

| Property name | Value |
|---|---|
| Application name | platform |


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| Property name | Value |
|---|---|
| Event name | controlModuleActivityChange |
| Default severity | critical |
| Message format string | Control module *slot* has become *activity_state* |
| Cause | The controlModuleActivityChange event is generated when there has been an activity change on either control module. |
| Effect | The specified control module has transitioned to the specified state. |
| Raising event | N/A |
| Clearing event | N/A |

## 38.19 controlModuleConfigSynchronized

*Table 605: controlModuleConfigSynchronized properties*

| Property name | Value |
|---|---|
| Application name | platform |
| Event name | controlModuleConfigSynchronized |
| Default severity | informational |
| Message format string | Configuration synchronization with standby control module *standby_slot* has succeeded |
| Cause | Configuration has been successfully synchronized between the active and standby control modules. |
| Effect | The standby control module now has the same configuration as the active. |
| Raising event | N/A |
| Clearing event | N/A |

## 38.20 controlModuleImageSynchronized

*Table 606: controlModuleImageSynchronized properties*

| Property name | Value |
|---|---|
| Application name | platform |


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| Property name | Value |
|---|---|
| Event name | controlModuleImageSynchronized |
| Default severity | informational |
| Message format string | Image synchronization with standby control module *standby_slot* has succeeded |
| Cause | Images have been successfully synchronized between the active and standby control modules. |
| Effect | The standby control module now has the same images as the active. |
| Raising event | N/A |
| Clearing event | N/A |

## 38.21 controlModuleInSync

*Table 607: controlModuleInSync properties*

| Property name | Value |
|---|---|
| Application name | platform |
| Event name | controlModuleInSync |
| Default severity | informational |
| Message format string | Active and standby control modules are now synchronized |
| Cause | All synchronization activities have completed between the active and standby control modules. |
| Effect | The standby control module is now ready for a control module switchover, if necessary. |
| Raising event | controlModuleSyncLost |
| Clearing event | N/A |

## 38.22 controlModuleOverlaySynchronized

*Table 608: controlModuleOverlaySynchronized properties*

| Property name | Value |
|---|---|
| Application name | platform |


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| Property name | Value |
|---|---|
| Event name | controlModuleOverlaySynchronized |
| Default severity | informational |
| Message format string | Overlay synchronization with standby control module *standby_slot* has succeeded |
| Cause | Overlays have been successfully synchronized between the active and standby control modules. |
| Effect | The standby control module now has the same overlay as the active. |
| Raising event | N/A |
| Clearing event | N/A |

## 38.23 controlModuleSyncLost

*Table 609: controlModuleSyncLost properties*

| Property name | Value |
|---|---|
| Application name | platform |
| Event name | controlModuleSyncLost |
| Default severity | alert |
| Message format string | Active control module has lost visibility of the standby control module |
| Cause | Connection between the active and standby control modules has been lost. |
| Effect | The standby control module is no longer capable of taking over in the event of a failure of the active, no configuration or images are being synchronized. |
| Raising event | N/A |
| Clearing event | controlModuleInSync |


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## 38.24 controlModuleSyncStart

*Table 610: controlModuleSyncStart properties*

| Property name | Value |
|---|---|
| Application name | platform |
| Event name | controlModuleSyncStart |
| Default severity | informational |
| Message format string | Active and standby control modules are now synchronizing *synchronization_category* |
| Cause | A synchronization has been triggered between the active and standby control modules. |
| Effect | Configuration, images, or persistent storage is being synchronized between the active and standby control module. |
| Raising event | N/A |
| Clearing event | N/A |

## 38.25 fantrayEmpty

*Table 611: fantrayEmpty properties*

| Property name | Value |
|---|---|
| Application name | platform |
| Event name | fantrayEmpty |
| Default severity | alert |
| Message format string | Component fan-tray *slot* is not present in the system |
| Cause | The fantrayEmpty event is generated when a fan-tray has transitioned from any other operational state to the empty state, or is never present. |
| Effect | The system may have cooling issues. |
| Raising event | N/A |
| Clearing event | componentInserted |


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## 38.26 fips140ConfiguredOperDown

*Table 612: fips140ConfiguredOperDown properties*

| Property name | Value |
|---|---|
| Application name | platform |
| Event name | fips140ConfiguredOperDown |
| Default severity | critical |
| Message format string | FIPS-140 is enabled operationally down for reason *down-reason* |
| Cause | FIPS-140 has been successfully configured but it is oper-down because of an error. |
| Effect | None |
| Raising event | N/A |
| Clearing event | N/A |

## 38.27 fips140ConfiguredOperUp

*Table 613: fips140ConfiguredOperUp properties*

| Property name | Value |
|---|---|
| Application name | platform |
| Event name | fips140ConfiguredOperUp |
| Default severity | notice |
| Message format string | FIPS-140 has been enabled and fully operational |
| Cause | FIPS-140 is successfully enabled and operational. |
| Effect | None |
| Raising event | N/A |
| Clearing event | N/A |


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## 38.28 fips140ConfiguredWaitingReboot

*Table 614: fips140ConfiguredWaitingReboot properties*

| Property name | Value |
|---|---|
| Application name | platform |
| Event name | fips140ConfiguredWaitingReboot |
| Default severity | notice |
| Message format string | FIPS-140 is enabled but operationally down until next reboot |
| Cause | FIPS-140 has been successfully configured. |
| Effect | FIPS-140 active after next reboot |
| Raising event | N/A |
| Clearing event | N/A |

## 38.29 fips140NotActive

*Table 615: fips140NotActive properties*

| Property name | Value |
|---|---|
| Application name | platform |
| Event name | fips140NotActive |
| Default severity | notice |
| Message format string | FIPS-140 is not activated |
| Cause | FIPS-140 is not configured. |
| Effect | None |
| Raising event | N/A |
| Clearing event | N/A |


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## 38.30 fips140Removed

*Table 616: fips140Removed properties*

| Property name | Value |
|---|---|
| Application name | platform |
| Event name | fips140Removed |
| Default severity | notice |
| Message format string | FIPS-140 has been disabled but is operationally up until next reboot |
| Cause | FIPS-140 has been successfully unconfigured. |
| Effect | FIPS-140 inactive after next reboot. |
| Raising event | N/A |
| Clearing event | N/A |

## 38.31 linecardCapacityDegraded

*Table 617: linecardCapacityDegraded properties*

| Property name | Value |
|---|---|
| Application name | platform |
| Event name | linecardCapacityDegraded |
| Default severity | critical |
| Message format string | Linecard *slot* forwarding complex *forwarding-complex* fabric capacity degraded |
| Cause | The specified linecard's forwarding complex has insufficient operational fabric links. |
| Effect | Packets may be dropped if the linecard's forwarding complex is sending and receiving significant amounts of traffic to the fabric. |
| Raising event | N/A |
| Clearing event | linecardCapacityNormal |


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## 38.32 linecardCapacityNormal

*Table 618: linecardCapacityNormal properties*

| Property name | Value |
|---|---|
| Application name | platform |
| Event name | linecardCapacityNormal |
| Default severity | informational |
| Message format string | Linecard *slot* forwarding complex *forwarding-complex* fabric capacity normal |
| Cause | The specified linecard's forwarding complex has sufficient operational fabric links again. |
| Effect | Normal behavior is restored for sending and receiving traffic to the fabric. |
| Raising event | linecardCapacityDegraded |
| Clearing event | N/A |

## 38.33 platformLowPower

*Table 619: platformLowPower properties*

| Property name | Value |
|---|---|
| Application name | platform |
| Event name | platformLowPower |
| Default severity | alert |
| Message format string | Insufficient power for currently installed components, *current_power*W available, *required_power*W required |
| Cause | Available power from operational power supplies is insufficient to power all components in the system. |
| Effect | Components in the system will be powered down until required power is lower than what is supplied by operational power supplies. |
| Raising event | N/A |
| Clearing event | platformNormalPower |


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## 38.34 platformLowReservePower

*Table 620: platformLowReservePower properties*

| Property name | Value |
|---|---|
| Application name | platform |
| Event name | platformLowReservePower |
| Default severity | alert |
| Message format string | Insufficient reserve power for currently installed components, *current_power*W available, *required_power*W required |
| Cause | Available power is less than one power supply capacity extra to power all components in the system. |
| Effect | Power will be insufficient if one operational power supply is lost. |
| Raising event | N/A |
| Clearing event | platformNormalPower |

## 38.35 platformNoPowerRedundancy

*Table 621: platformNoPowerRedundancy properties*

| Property name | Value |
|---|---|
| Application name | platform |
| Event name | platformNoPowerRedundancy |
| Default severity | warning |
| Message format string | Power redundancy based on mode *redundancy_mode* is not available, required PSUs *required_psus*, operational PSUs *active_psus* |
| Cause | The available PSUs are not able to accomodate the configured power redundancy mode. |
| Effect | The desired power redundancy is not available. |
| Raising event | N/A |
| Clearing event | platformPowerRedundancyRecovered |


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## 38.36 platformNormalPower

*Table 622: platformNormalPower properties*

| Property name | Value |
|---|---|
| Application name | platform |
| Event name | platformNormalPower |
| Default severity | informational |
| Message format string | Sufficient power for currently installed components, *current_power*W available, *required_power*W required |
| Cause | Available power from operational power supplies is sufficient to power all components in the system. |
| Effect | Enough power is available. |
| Raising event | platformLowPower, platformLowReservePower |
| Clearing event | N/A |

## 38.37 platformPowerRedundancyRecovered

*Table 623: platformPowerRedundancyRecovered properties*

| Property name | Value |
|---|---|
| Application name | platform |
| Event name | platformPowerRedundancyRecovered |
| Default severity | informational |
| Message format string | Power redundancy based on mode *redundancy_mode* is available, required PSUs *required_psus*, operational PSUs *active_psus* |
| Cause | The available PSUs are able to accomodate the configured power redundancy mode. |
| Effect | The desired power redundancy is available. |
| Raising event | platformNoPowerRedundancy |
| Clearing event | N/A |


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## 38.38 psuInputDown

*Table 624: psuInputDown properties*

| Property name | Value |
|---|---|
| Application name | platform |
| Event name | psuInputDown |
| Default severity | alert |
| Message format string | Power input on power-supply *slot* is down |
| Cause | Input fault on the specified power supply is set. |
| Effect | The specified power supply can no longer supply power to the system. |
| Raising event | N/A |
| Clearing event | psuInputUp |

## 38.39 psuInputUp

*Table 625: psuInputUp properties*

| Property name | Value |
|---|---|
| Application name | platform |
| Event name | psuInputUp |
| Default severity | notice |
| Message format string | Power input on power-supply *slot* is up |
| Cause | Input fault on the specified power supply is clear. |
| Effect | The specified power supply can now supply power to the system. |
| Raising event | psuInputDown |
| Clearing event | N/A |


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## 38.40 psuOutputDown

*Table 626: psuOutputDown properties*

| Property name | Value |
|---|---|
| Application name | platform |
| Event name | psuOutputDown |
| Default severity | alert |
| Message format string | Power output on power-supply *slot* is down |
| Cause | Output fault on the specified power supply is set. |
| Effect | The specified power supply can no longer supply power to the system. |
| Raising event | N/A |
| Clearing event | psuOutputUp |

## 38.41 psuOutputUp

*Table 627: psuOutputUp properties*

| Property name | Value |
|---|---|
| Application name | platform |
| Event name | psuOutputUp |
| Default severity | notice |
| Message format string | Power output on power-supply *slot* is up |
| Cause | Output fault on the specified power supply is clear. |
| Effect | The specified power supply can now supply power to the system. |
| Raising event | psuOutputDown |
| Clearing event | N/A |


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## 38.42 psuTemperatureFault

*Table 628: psuTemperatureFault properties*

| Property name | Value |
|---|---|
| Application name | platform |
| Event name | psuTemperatureFault |
| Default severity | warning |
| Message format string | Component *type slot* has raised a temperature fault, current temperature *temperature*C |
| Cause | The psuTemperatureFault event is generated when the power supply raises a temperature fault. |
| Effect | The power supply is overheating, and may shut down by thermal protection. |
| Raising event | N/A |
| Clearing event | psuTemperatureNormal |

## 38.43 psuTemperatureNormal

*Table 629: psuTemperatureNormal properties*

| Property name | Value |
|---|---|
| Application name | platform |
| Event name | psuTemperatureNormal |
| Default severity | notice |
| Message format string | Component *type slot* temperature fault is now clear, current temperature *temperature*C |
| Cause | The psuTemperatureNormal event is generated when the power supply recovered from a temperature fault state. |
| Effect | The power supply is now within temperature operating limits. |
| Raising event | psuTemperatureFault |
| Clearing event | N/A |


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## 38.44 systemInServiceSoftwareUpgrade

*Table 630: systemInServiceSoftwareUpgrade properties*

| Property name | Value |
|---|---|
| Application name | platform |
| Event name | systemInServiceSoftwareUpgrade |
| Default severity | critical |
| Message format string | System is upgrading from *old_version* to *new_version*, utilizing warm reboot |
| Cause | The systemInServiceSoftwareUpgrade event is generated when a software triggered in service software upgrade request has been made. |
| Effect | The control and management plane of the system will go offline, the datapath will continue forwarding based on current state. The system will upgrade the kernel, operating system, and/or applications as needed. |
| Raising event | N/A |
| Clearing event | N/A |

## 38.45 systemReboot

*Table 631: systemReboot properties*

| Property name | Value |
|---|---|
| Application name | platform |
| Event name | systemReboot |
| Default severity | critical |
| Message format string | System going down for reboot |
| Cause | The systemReboot event is generated when a software triggered reboot has been made. |
| Effect | The system will go offline for reboot |
| Raising event | N/A |
| Clearing event | N/A |


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## 38.46 systemWarmReboot

*Table 632: systemWarmReboot properties*

| Property name | Value |
|---|---|
| Application name | platform |
| Event name | systemWarmReboot |
| Default severity | critical |
| Message format string | System going down for warm reboot |
| Cause | The systemWarmReboot event is generated when a software triggered warm reboot has been made. |
| Effect | The control and management plane of the system will go offline, the datapath will continue forwarding based on current state. |
| Raising event | N/A |
| Clearing event | N/A |

## 38.47 systemWarmRebootAborted

*Table 633: systemWarmRebootAborted properties*

| Property name | Value |
|---|---|
| Application name | platform |
| Event name | systemWarmRebootAborted |
| Default severity | critical |
| Message format string | System has aborted a requested warm reboot due to *reason* |
| Cause | The systemWarmRebootAborted event is generated when a software triggered warm reboot request has been aborted, typically due to unsupported configuration. |
| Effect | The in progress warm reboot has been aborted, no effect to system configuration or state. |
| Raising event | N/A |
| Clearing event | N/A |


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# 39 pim

## 39.1 pimGroupInSSMRange

*Table 634: pimGroupInSSMRange properties*

| Property name | Value |
|---|---|
| Application name | pim |
| Event name | pimGroupInSSMRange |
| Default severity | warning |
| Message format string | Network-instance *network_instance* - received *message_type* message on interface *subinterface* for group *group_address* which is in SSM group range |
| Cause | The router received a register message, a (*,G) assert message, a (*,G) Join Prune message or a IGMP local membership message for the group defined in SSM address range |
| Effect | none |
| Raising event | N/A |
| Clearing event | N/A |

## 39.2 pimIfNeighborLoss

*Table 635: pimIfNeighborLoss properties*

| Property name | Value |
|---|---|
| Application name | pim |
| Event name | pimIfNeighborLoss |
| Default severity | warning |
| Message format string | Network-instance *network_instance* - lost adjacency with neighbor *neighbor_address* on interface *subinterface* |
| Cause | A PIM adjacency with a neighbor was lost. |
| Effect | none |


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| Property name | Value |
|---|---|
| Raising event | N/A |
| Clearing event | N/A |

## 39.3 pimIfNeighborUp

*Table 636: pimIfNeighborUp properties*

| Property name | Value |
|---|---|
| Application name | pim |
| Event name | pimIfNeighborUp |
| Default severity | warning |
| Message format string | Network-instance *network_instance* - adjacency with neighbor *neighbor_address* on interface *subinterface* came up |
| Cause | A PIM adjacency with a new neighbor was established. |
| Effect | none |
| Raising event | N/A |
| Clearing event | N/A |

## 39.4 pimInvalidJoinPrune

*Table 637: pimInvalidJoinPrune properties*

| Property name | Value |
|---|---|
| Application name | pim |
| Event name | pimInvalidJoinPrune |
| Default severity | warning |
| Message format string | Network-instance *network_instance* - received invalid Join Prune message from *source_address* with RP address *wrong_rp_address* for group *group_address*. Correct RP address for the group is *rp_address* |
| Cause | An invalid Join Prune message was received. A Join Prune message is deemded invalid when there is an RP address disagreement between the router and the PIM Join Prune message. |


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| Property name | Value |
|---|---|
| Effect | The JP is is dropped |
| Raising event | N/A |
| Clearing event | N/A |

## 39.5 pimInvalidRegister

*Table 638: pimInvalidRegister properties*

| Property name | Value |
|---|---|
| Application name | pim |
| Event name | pimInvalidRegister |
| Default severity | warning |
| Message format string | Network-instance *network_instance* - received invalid Register message from *source_address* with RP address *wrong_rp_address* for group *group_address*. Correct RP address for the group is *rp_address* |
| Cause | An invalid PIM Register message was received. A Register message is deemded invalid when there is an RP address disagreement between the router and the PIM Register message. |
| Effect | The Register is is dropped |
| Raising event | N/A |
| Clearing event | N/A |


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# 40 qos

## 40.1 platformCoreQoSProfileHighUtilization

*Table 639: platformCoreQoSProfileHighUtilization properties*

| Property name | Value |
|---|---|
| Application name | qos |
| Event name | platformCoreQoSProfileHighUtilization |
| Default severity | warning |
| Message format string | The per-core QoS resource called *resource-name* has reached *threshold*% or more utilization on linecard *linecard*, forwarding complex *forwarding-complex*, core *core*. Only *free-entries* entries are remaining. |
| Cause | This event is generated when the utilization of a per-core QoS resource has increased to a level that may warrant concern if further resources are consumed |
| Effect | None |
| Raising event | N/A |
| Clearing event | N/A |

## 40.2 platformCoreQoSProfileHighUtilizationLowered

*Table 640: platformCoreQoSProfileHighUtilizationLowered properties*

| Property name | Value |
|---|---|
| Application name | qos |
| Event name | platformCoreQoSProfileHighUtilizationLowered |
| Default severity | notice |
| Message format string | The per-core QoS resource called *resource-name* has decreased back to *threshold*% or less utilization on linecard *linecard*, forwarding complex *forwarding-complex*, core *core*. |
| Cause | This event is generated when the utilization of a per-core QoS resource has decreased to a level that may no longer warrant concern |


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| Property name | Value |
|---|---|
| Effect | None |
| Raising event | N/A |
| Clearing event | N/A |

## 40.3 platformQoSProfileHighUtilization

*Table 641: platformQoSProfileHighUtilization properties*

| Property name | Value |
|---|---|
| Application name | qos |
| Event name | platformQoSProfileHighUtilization |
| Default severity | warning |
| Message format string | The QoS resource called *resource-name* has reached *threshold*% or more utilization on linecard *linecard*, forwarding complex *forwarding-complex*. Only *free-entries* entries are remaining. |
| Cause | This event is generated when the utilization of a QoS resource has increased to a level that may warrant concern if futher resources are consumed |
| Effect | None |
| Raising event | N/A |
| Clearing event | N/A |

## 40.4 platformQoSProfileHighUtilizationLowered

*Table 642: platformQoSProfileHighUtilizationLowered properties*

| Property name | Value |
|---|---|
| Application name | qos |
| Event name | platformQoSProfileHighUtilizationLowered |
| Default severity | notice |
| Message format string | The QoS resource called *resource-name* has decreased back to *threshold*% or less utilization on linecard *linecard*, forwarding complex *forwarding-complex*. |


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| Property name | Value |
|---|---|
| Cause | This event is generated when the utilization of a QoS resource has decreased to a level that may no longer warrant concern |
| Effect | None |
| Raising event | N/A |
| Clearing event | N/A |


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# 41 ra_guard

## 41.1 ra_guardAdd

*Table 643: ra_guardAdd properties*

| Property name | Value |
|---|---|
| Application name | ra_guard-agent |
| Event name | ra_guardAdd |
| Default severity | notice |
| Message format string | RA Guard Policy *pol-name* associated with subinterface *if-name*, VLAN *vlan* |
| Cause | This notification is generated when an RA policy is added to a subinterface. |
| Effect | The associated RA Policy is now applied to the subinterface. |
| Raising event | N/A |
| Clearing event | N/A |

## 41.2 ra_guardRemove

*Table 644: ra_guardRemove properties*

| Property name | Value |
|---|---|
| Application name | ra_guard-agent |
| Event name | ra_guardRemove |
| Default severity | notice |
| Message format string | RA Guard Policy *pol-name* removed from subinterface *if-name*, VLAN *vlan* |
| Cause | This notification is generated when an RA policy is removed from a subinterface. |
| Effect | An RA Policy is no longer associated with the specified subinterface. |


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| Property name | Value |
|---|---|
| Raising event | N/A |
| Clearing event | N/A |


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# 42 rpki

## 42.1 rpkiSessionDown

*Table 645: rpkiSessionDown properties*

| Property name | Value |
|---|---|
| Application name | rpki |
| Event name | rpkiSessionDown |
| Default severity | warning |
| Message format string | RPKI-RTR session *session_name* to cache server *server_address* changed to *new_state*: *reason* |
| Cause | An RPKI-RTR session transitioned to connecting or cleanup. The reason field indicates the specific cause: tcp-failure - remote peer reset the TCP connection, or the connection attempt failed; hold-timer-expired - no PDU received from the cache server within the hold-time interval; protocol-error - unrecoverable protocol-level violation, including serial number mismatch; session-id-mismatch - cache server session ID changed unexpectedly; admin-disable - session administratively disabled via admin-state disable. |
| Effect | No ROA entries can be exchanged with the cache server while the session is down. |
| Raising event | N/A |
| Clearing event | N/A |

## 42.2 rpkiSessionUp

*Table 646: rpkiSessionUp properties*

| Property name | Value |
|---|---|
| Application name | rpki |
| Event name | rpkiSessionUp |
| Default severity | informational |


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| Property name | Value |
|---|---|
| Message format string | RPKI-RTR session *session_name* to cache server *server_address* established |
| Cause | An RPKI-RTR session transitioned to the established state after the TCP connection succeeded and the RPKI-RTR handshake completed successfully. |
| Effect | No action required. Monitor session statistics for normal operation. |
| Raising event | N/A |
| Clearing event | N/A |

## 42.3 rpkiStaleEntriesPurged

*Table 647: rpkiStaleEntriesPurged properties*

| Property name | Value |
|---|---|
| Application name | rpki |
| Event name | rpkiStaleEntriesPurged |
| Default severity | warning |
| Message format string | Stale ROA entries purged from session *session_name* after stale-time expiration |
| Cause | The stale-time expired for a session that has not re-established. Occurs when the RPKI-RTR session remains down beyond the configured stale-time, or the cache server is unreachable for an extended period exceeding stale-time. |
| Effect | Stale ROA entries are progressively purged and are no longer used for origin validation. |
| Raising event | N/A |
| Clearing event | N/A |


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# 43 sflow

## 43.1 sFlowAgentChange

*Table 648: sFlowAgentChange properties*

| Property name | Value |
|---|---|
| Application name | sflow |
| Event name | sFlowAgentChange |
| Default severity | notice |
| Message format string | SFLOW: The global sFlow Agent has administratively been changed to *state* |
| Cause | This notification is generated when a sFlow global process changes administrative state. |
| Effect | The sFlow global process state has changed. |
| Raising event | N/A |
| Clearing event | N/A |

## 43.2 sFlowCollectorUnreachable

*Table 649: sFlowCollectorUnreachable properties*

| Property name | Value |
|---|---|
| Application name | sflow |
| Event name | sFlowCollectorUnreachable |
| Default severity | warning |
| Message format string | SFLOW: Collector *collector-id* - IP address: *collector-ip* is unreachable |
| Cause | This notification is generated when the specified sFlow collector will no longer receive sflow sample data until reachability is restored |
| Effect | Restore IP reachability to the sFlow collector. |
| Raising event | N/A |


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| Property name | Value |
| --- | --- |
| Clearing event | N/A |


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# 44 staticroute

## 44.1 staticNextHopCpeCheckDown

*Table 650: staticNextHopCpeCheckDown properties*

| Property name | Value |
|---|---|
| Application name | staticroute |
| Event name | staticNextHopCpeCheckDown |
| Default severity | warning |
| Message format string | The next-hop *next-hop-index* with cpe-check enabled in network-instance *networkinstance_name* is now down due to *failure_string* |
| Cause | This event is generated when a static-route with cpe-check enabled has transitioned from the up state to the down state. |
| Effect | The next-hop is now down |
| Raising event | N/A |
| Clearing event | N/A |

## 44.2 staticNextHopCpeCheckUp

*Table 651: staticNextHopCpeCheckUp properties*

| Property name | Value |
|---|---|
| Application name | staticroute |
| Event name | staticNextHopCpeCheckUp |
| Default severity | notice |
| Message format string | The next-hop *next-hop-index* with cpe-check enabled in network-instance *networkinstance_name* is now up |
| Cause | This event is generated when a static-route with cpe-check enabled has transitioned from the down state to the up state. |
| Effect | The next-hop is now up |


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| Property name | Value |
|---|---|
| Raising event | N/A |
| Clearing event | N/A |


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# 45 stp

## 45.1 higherPriorityBridge

*Table 652: higherPriorityBridge properties*

| Property name | Value |
|---|---|
| Application name | stp |
| Event name | higherPriorityBridge |
| Default severity | warning |
| Message format string | Bridge *bridge-id* with root bridge $$ has higher priority, for network instance *networkinstance-name* on interface *interface-name* |
| Cause | A customer's device has been configured with a bridge priority equal to zero. |
| Effect | The interface that the customer's device is connected through will be blocked. |
| Raising event | N/A |
| Clearing event | N/A |

## 45.2 InterfaceActiveProtocolChange

*Table 653: InterfaceActiveProtocolChange properties*

| Property name | Value |
|---|---|
| Application name | stp |
| Event name | InterfaceActiveProtocolChange |
| Default severity | notice |
| Message format string | NetworkInstance *networkinstance-name* SubInterface *interface-name* active protocol changed to *stp-oper-protocol-name*. |
| Cause | The spanning tree protocol on this Subinterface changed from RSTP to STP or viceversa. |
| Effect | None. |


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| Property name | Value |
|---|---|
| Raising event | N/A |
| Clearing event | N/A |

## 45.3 NewCistRegionalRootBridge

*Table 654: NewCistRegionalRootBridge properties*

| Property name | Value |
|---|---|
| Application name | stp |
| Event name | NewCistRegionalRootBridge |
| Default severity | notice |
| Message format string | New *regional-name* root *cist-regionalroot-name* elected in network instance *networkinstance-name* |
| Cause | A STP selected a new regional root for the CIST |
| Effect | None |
| Raising event | N/A |
| Clearing event | N/A |

## 45.4 NewMstiRegionalRootBridge

*Table 655: NewMstiRegionalRootBridge properties*

| Property name | Value |
|---|---|
| Application name | stp |
| Event name | NewMstiRegionalRootBridge |
| Default severity | notice |
| Message format string | New MSTI regional root *msti-regionalroot-name* elected in net work instance *networkinstance-name*. Msti-InstanceId: *mst-instance-id* |
| Cause | A STP selected a new regional root for the MSTI |
| Effect | None |
| Raising event | N/A |


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| Property name | Value |
|---|---|
| Clearing event | N/A |

## 45.5 newRootBridge

*Table 656: newRootBridge properties*

| Property name | Value |
|---|---|
| Application name | stp |
| Event name | newRootBridge |
| Default severity | warning |
| Message format string | New root elected for network instance *networkinstance-name* due to bridge parameter change. |
| Cause | The previous root bridge has been aged out and new root bridge is elected. |
| Effect | The new root bridge creates a new spanning tree topology which may denote loss of customer access or redundancy. |
| Raising event | N/A |
| Clearing event | N/A |

## 45.6 newRootInterface

*Table 657: newRootInterface properties*

| Property name | Value |
|---|---|
| Application name | stp |
| Event name | newRootInterface |
| Default severity | warning |
| Message format string | New root elected for network instance *networkinstance-name* due to interface *interface-name* |
| Cause | The previous root bridge has been aged out and a new root bridge has been elected. |
| Effect | The new root bridge creates a new spanning tree topology which may denote a loss of customer access or redundancy. |


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| Property name | Value |
|---|---|
| Raising event | N/A |
| Clearing event | N/A |

## 45.7 receivedTCN

*Table 658: receivedTCN properties*

| Property name | Value |
|---|---|
| Application name | stp |
| Event name | receivedTCN |
| Default severity | warning |
| Message format string | TCN received for network instance *networkinstance-name* on interface *interface-name*. |
| Cause | SubInterface has received a TCN from another bridge. |
| Effect | This bridge will either have its Config bpdu with topology change flag set if it is a root bridge, or it will pass TCN to its root bridge. Eventually the address aging timer for the forwarding database will be made shorter for a short period of time. |
| Raising event | N/A |
| Clearing event | N/A |

## 45.8 StpBpduGuardError

*Table 659: StpBpduGuardError properties*

| Property name | Value |
|---|---|
| Application name | stp |
| Event name | StpBpduGuardError |
| Default severity | warning |
| Message format string | A Bpdu-guard error is detected for network instance *networkinstance-name* on subinterface *interface-name* |
| Cause | Edge-SubInterface which has bpdu-guard configured received unexpected Stp Bpdu |


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| Property name | Value |
|---|---|
| Effect | Subinterface will become shutdown and traffic will be blocked. |
| Raising event | N/A |
| Clearing event | N/A |

## 45.9 StpRootGuardViolation

*Table 660: StpRootGuardViolation properties*

| Property name | Value |
|---|---|
| Application name | stp |
| Event name | StpRootGuardViolation |
| Default severity | warning |
| Message format string | A root-guard violation is detected for network instance *networkinstance-name* on subinterface *interface-name* |
| Cause | SubInterface which has root-guard configured is trying to become root (has a better STP priority vector) |
| Effect | Subinterface will become alternate and traffic will be blocked. |
| Raising event | N/A |
| Clearing event | N/A |

## 45.10 topologyChangeInterfaceMajorState

*Table 661: topologyChangeInterfaceMajorState properties*

| Property name | Value |
|---|---|
| Application name | stp |
| Event name | topologyChangeInterfaceMajorState |
| Default severity | warning |
| Message format string | Topology change for network-instance *networkinstance-name* due to subinterface *interface-name* major state change |
| Cause | SubInterface has transitioned its state from learning to forwarding or from forwarding to blocking or broken. |


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| Property name | Value |
|---|---|
| Effect | The spanning tree topology has been modified which may denote loss of customer access or redundancy. |
| Raising event | N/A |
| Clearing event | N/A |

## 45.11 topologyChangeInterfaceState

*Table 662: topologyChangeInterfaceState properties*

| Property name | Value |
|---|---|
| Application name | stp |
| Event name | topologyChangeInterfaceState |
| Default severity | warning |
| Message format string | Topology change for network instance *networkinstance-name* due to interface *interface-name* state change. |
| Cause | SubInterface has transitioned state to blocking or broken from a state other than forwarding. This event complements what is not covered by topologyChangeInterfaceMajorState. |
| Effect | The spanning tree topology has been modified which may denote loss of customer access or redundancy. |
| Raising event | N/A |
| Clearing event | N/A |

## 45.12 unacknowledgedTCN

*Table 663: unacknowledgedTCN properties*

| Property name | Value |
|---|---|
| Application name | stp |
| Event name | unacknowledgedTCN |
| Default severity | warning |
| Message format string | TCN sent for *networkinstance-name* is unacknowledged |


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| Property name | Value |
|---|---|
| Cause | TCN sent towards the root bridge on the root port (Subinterface) has not been acknowledged within allowed time. |
| Effect | A portion of the spanning tree topology may not have been notified that a topology change has taken place. FDB tables on some devices may take significantly longer to represent the new distribution of layer-2 addresses. |
| Raising event | N/A |
| Clearing event | N/A |


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# 46 sync

## 46.1 syncFreqClockQLChange

*Table 664: syncFreqClockQLChange properties*

| Property name | Value |
|---|---|
| Application name | sync |
| Event name | syncFreqClockQLChange |
| Default severity | notice |
| Message format string | The system frequency clock's Quality Level (ql) has transitioned to *freq_clock_ql* |
| Cause | This notification is generated when a frequency clock transitions to a new ql. |
| Effect | The system's frequency clock is synced to remote clock with this ql. |
| Raising event | N/A |
| Clearing event | N/A |

## 46.2 syncFreqClockRefChange

*Table 665: syncFreqClockRefChange properties*

| Property name | Value |
|---|---|
| Application name | sync |
| Event name | syncFreqClockRefChange |
| Default severity | notice |
| Message format string | The system frequency clock reference has transitioned to frequency reference instance *instance_number sub_source* |
| Cause | This notification is generated when a frequency reference instance selected has changed. For a redundant sync0/gnss source, sub_ source identifies the redundant leg (sync0-a/sync0-b or gnss-a/gnss-b). |
| Effect | The system frequency clock will follow the new reference. |


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| Property name | Value |
|---|---|
| Raising event | N/A |
| Clearing event | N/A |

## 46.3 syncFreqClockStateChange

*Table 666: syncFreqClockStateChange properties*

| Property name | Value |
|---|---|
| Application name | sync |
| Event name | syncFreqClockStateChange |
| Default severity | notice |
| Message format string | The system frequency clock state has transitioned to *freq_clock_state* |
| Cause | This notification is generated when a frequency clock transitions to a new state. |
| Effect | The system's frequency clock behavior is based on this state. |
| Raising event | N/A |
| Clearing event | N/A |

## 46.4 syncFreqInstanceAlarmChange

*Table 667: syncFreqInstanceAlarmChange properties*

| Property name | Value |
|---|---|
| Application name | sync |
| Event name | syncFreqInstanceAlarmChange |
| Default severity | notice |
| Message format string | Frequency reference instance *instance_number sub_source*: The alarm state has transitioned to *alarm_state* |
| Cause | This notification is generated when a frequency Reference instance transitions to a new alarm state. For a redundant sync0/gnss source, sub_source identifies the redundant leg (sync0-a/sync0-b or gnss-a/gnss-b). |


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| Property name | Value |
|---|---|
| Effect | If there is an alarm for a frequency reference instance, it will not be qualified for use. |
| Raising event | N/A |
| Clearing event | N/A |

## 46.5 syncFreqInstanceQLChange

*Table 668: syncFreqInstanceQLChange properties*

| Property name | Value |
|---|---|
| Application name | sync |
| Event name | syncFreqInstanceQLChange |
| Default severity | notice |
| Message format string | Frequency reference instance *instance_number sub_source*: The Quality Level (ql) has transitioned to *ql_number* |
| Cause | This notification is generated when a frequency reference Instance transitions to a new QL. For a redundant sync0/gnss source, sub_ source identifies the redundant leg (sync0-a/sync0-b or gnss-a/gnss-b). |
| Effect | The new QL will be taken into account when for system frequency clock reference selection if ql-selection is set. |
| Raising event | N/A |
| Clearing event | N/A |

## 46.6 syncPTPNoPortTimestamping

*Table 669: syncPTPNoPortTimestamping properties*

| Property name | Value |
|---|---|
| Application name | sync |
| Event name | syncPTPNoPortTimestamping |
| Default severity | warning |
| Message format string | Local interface *local_interface* is being used for PTP event messages but that interface doesn't support timestamping |


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| Property name | Value |
|---|---|
| Cause | For the interface indicated, either ptp timestamping has been disabled in configuration or the IMM or MDA does not support timestamping. |
| Effect | PTP exchanges require the event messages to be timestamped at the port. Clock recovery cannot work without this timestamping. |
| Raising event | N/A |
| Clearing event | N/A |

## 46.7 syncPTPParentChange

*Table 670: syncPTPParentChange properties*

| Property name | Value |
|---|---|
| Application name | sync |
| Event name | syncPTPParentChange |
| Default severity | notice |
| Message format string | PTP has transitioned to new parent *parent_clock_mac_address* on port *parent_clock_port* with clockClass of *parent_clockclass*. |
| Cause | This notification is generated when the PTP clock transitions to a new parent. |
| Effect | The ptp clock will follow this new parent clock. |
| Raising event | N/A |
| Clearing event | N/A |

## 46.8 syncPTPParentChangeGNSS

*Table 671: syncPTPParentChangeGNSS properties*

| Property name | Value |
|---|---|
| Application name | sync |
| Event name | syncPTPParentChangeGNSS |
| Default severity | notice |


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| Property name | Value |
|---|---|
| Message format string | PTP has transitioned to new parent *parent_clock_gnss* with clockClass of *parent_clockclass*. |
| Cause | This notification is generated when the PTP clock transitions to the internal GNSS as the new parent. |
| Effect | The ptp clock will follow this new parent which is a GNSS reference. |
| Raising event | N/A |
| Clearing event | N/A |

## 46.9 syncPTPParentChangeIP

*Table 672: syncPTPParentChangeIP properties*

| Property name | Value |
|---|---|
| Application name | sync |
| Event name | syncPTPParentChangeIP |
| Default severity | notice |
| Message format string | PTP has transitioned to new parent *parent_clock_ip* in routing instance *parent_clock_router* with clockClass of *parent_clockclass*. |
| Cause | This notification is generated when the PTP clock transitions to a new IP parent. |
| Effect | The ptp clock will follow this new parent clock. |
| Raising event | N/A |
| Clearing event | N/A |

## 46.10 syncPTPParentChangeLocalClock

*Table 673: syncPTPParentChangeLocalClock properties*

| Property name | Value |
|---|---|
| Application name | sync |
| Event name | syncPTPParentChangeLocalClock |
| Default severity | notice |


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| Property name | Value |
|---|---|
| Message format string | PTP has transitioned to new parent *parent_clock_local* with clockClass of *parent_clockclass*. |
| Cause | This notification is generated when the PTP clock transitions to the local clock as the new parent. |
| Effect | The ptp clock will follow this new parent clock with is the local clock. |
| Raising event | N/A |
| Clearing event | N/A |

## 46.11 syncPTPPortPTSFUnusable

*Table 674: syncPTPPortPTSFUnusable properties*

| Property name | Value |
|---|---|
| Application name | sync |
| Event name | syncPTPPortPTSFUnusable |
| Default severity | warning |
| Message format string | PTP detected excessive noise between PTP port number *ptp_neighbor_port_number* and parent clock ID *ptp_neighbor_clock_id*. |
| Cause | The PTP process detected excessive noise between the local port and the indicated external Master port. |
| Effect | Any Announce messages received from the indicated neighbor shall be excluded from the BMCA algorithm until this condition is cleared. |
| Raising event | N/A |
| Clearing event | N/A |

## 46.12 syncPTPTimeRecoveryState

*Table 675: syncPTPTimeRecoveryState properties*

| Property name | Value |
|---|---|
| Application name | sync |
| Event name | syncPTPTimeRecoveryState |


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| Property name | Value |
|---|---|
| Default severity | notice |
| Message format string | PTP has transitioned to time recovery state of *ptp_time_rec_state* |
| Cause | This notification is generated when the PTP clock transitions to a new time recovery state. |
| Effect | The ptp clock's tim recovery behavior will be based on this state. |
| Raising event | N/A |
| Clearing event | N/A |


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# 47 tls

## 47.1 tlsProfileExpired

*Table 676: tlsProfileExpired properties*

| Property name | Value |
|---|---|
| Application name | tls |
| Event name | tlsProfileExpired |
| Default severity | warning |
| Message format string | Certificate in TLS profile *tls_profile* has expired |
| Cause | The certificate used in the specified TLS profile has an expiration date in the past. |
| Effect | Authentication using the specified TLS profile may fail. |
| Raising event | N/A |
| Clearing event | N/A |

## 47.2 tlsProfileExpiresSoon

*Table 677: tlsProfileExpiresSoon properties*

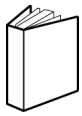
| Property name | Value |
|---|---|
| Application name | tls |
| Event name | tlsProfileExpiresSoon |
| Default severity | warning |
| Message format string | Certificate in TLS profile *tls_profile* expires at *expires_at_date_time* |
| Cause | The certificate used in the specified TLS profile will expire in the next 30 days. |
| Effect | Authentication using the specified TLS profile may fail once the certificate expires. |
| Raising event | N/A |


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| Property name | Value |
| --- | --- |
| Clearing event | N/A |


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