

Standard SNMP Version 2 Traps

Table 1 provides an overview of the standard SNMPv2 traps supported by JUNOS Software. The traps are organized first by trap category and then by trap name and include their `snmpTrapOID`. The system logging severity levels are listed for those traps that have them with their corresponding system log tag. Traps that do not have corresponding system logging severity levels are marked with an en dash (–) in the table.

For more information about system log messages, see the *JUNOS System Log Messages Reference*. For more information about configuring system logging, see the *JUNOS System Basics Configuration Guide*.

Table 1: Standard Supported SNMP Version 2 Traps

Defined in	Trap Name	snmpTrapOID	System Logging Severity Level	Syslog Tag	Supported on
Startup Notifications					
RFC 1907, <i>Management Information Base for Version 2 of the Simple Network Management Protocol (SNMPv2)</i> ,	coldStart	1.3.6.1.6.3.1.1.5.1	Critical	SNMPD_TRAP_COLD_START	All devices running JUNOS Software.
	warmStart	1.3.6.1.6.3.1.1.5.2	Error	SNMPD_TRAP_WARM_START	All devices running JUNOS Software.
	authenticationFailure	1.3.6.1.6.3.1.1.5.5	Notice	SNMPD_TRAP_GEN_FAILURE	All devices running JUNOS Software.
Link Notifications					
RFC 2863, <i>The Interfaces Group MIB</i>	linkDown	1.3.6.1.6.3.1.1.5.3	Warning	SNMP_TRAP_LINK_DOWN	All devices running JUNOS Software.
	linkUp	1.3.6.1.6.3.1.1.5.4	Info	SNMP_TRAP_LINK_UP	All devices running JUNOS Software.
Remote Operations Notifications					
RFC 2925, <i>Definitions of Managed Objects for Remote Ping, Traceroute, and Lookup Operations</i>	pingProbeFailed	1.3.6.1.2.1.80.0.1	Info	SNMP_TRAP_PING_PROBE_FAILED	All devices running JUNOS Software.
	pingTestFailed	1.3.6.1.2.1.80.0.2	Info	SNMP_TRAP_PING_TEST_FAILED	All devices running JUNOS Software.
	pingTestCompleted	1.3.6.1.2.1.80.0.3	Info	SNMP_TRAP_PING_TEST_COMPLETED	All devices running JUNOS Software.
	traceRoutePathChange	1.3.6.1.2.1.81.0.1	Info	SNMP_TRAP_TRACE_ROUTE_PATH_CHANGE	All devices running JUNOS Software.
	traceRouteTestFailed	1.3.6.1.2.1.81.0.2	Info	SNMP_TRAP_TRACE_ROUTE_TEST_FAILED	All devices running JUNOS Software.

Table 1: Standard Supported SNMP Version 2 Traps (continued)

Defined in	Trap Name	snmpTrapOID	System Logging Severity Level	Syslog Tag	Supported on
	traceRouteTestCompleted	1.3.6.1.2.1.81.0.3	Info	SNMP_TRAP_TRACE_ROUTE_TEST_COMPLETED	All devices running JUNOS Software.
RMON Alarms					
RFC 2819a, <i>RMON MIB</i>	fallingAlarm	1.3.6.1.2.1.16.0.1	-	-	All devices running JUNOS Software.
	risingAlarm	1.3.6.1.2.1.16.0.2	-	-	All devices running JUNOS Software.
Routing Notifications					
<i>BGP 4 MIB</i>	bgpEstablished	1.3.6.1.2.1.15.7.1	-	-	M, MX, T, EX, J, and SRX for branch devices.
	bgpBackwardTransition	1.3.6.1.2.1.15.7.2	-	-	M, MX, T, EX, J, and SRX for branch devices.
<i>OSPF Trap MIB</i>	ospfVirtIfStateChange	1.3.6.1.2.1.14.16.2.1	-	-	M, MX, T, EX, J, and SRX for branch devices.
	ospfNbrStateChange	1.3.6.1.2.1.14.16.2.2	-	-	M, MX, T, EX, J, and SRX for branch devices.
	ospfVirtNbrStateChange	1.3.6.1.2.1.14.16.2.3	-	-	M, MX, T, EX, J, and SRX for branch devices.
	ospfIfConfigError	1.3.6.1.2.1.14.16.2.4	-	-	M, MX, T, EX, J, and SRX for branch devices.
	ospfVirtIfConfigError	1.3.6.1.2.1.14.16.2.5	-	-	M, MX, T, EX, J, and SRX for branch devices.
	ospfIfAuthFailure	1.3.6.1.2.1.14.16.2.6	-	-	M, MX, T, EX, J, and SRX for branch devices.
	ospfVirtIfAuthFailure	1.3.6.1.2.1.14.16.2.7	-	-	M, MX, T, EX, J, and SRX for branch devices.
	ospfIfRxBadPacket	1.3.6.1.2.1.14.16.2.8	-	-	M, MX, T, EX, J, and SRX for branch devices.

Table 1: Standard Supported SNMP Version 2 Traps (continued)

Defined in	Trap Name	snmpTrapOID	System Logging Severity Level	Syslog Tag	Supported on
	ospfVirtIfRxBadPacket	1.3.6.1.2.1.14.16.2.9	–	–	M, MX, T, EX, J, and SRX for branch devices.
	ospfTxRetransmit	1.3.6.1.2.1.14.16.2.10	–	–	M, MX, T, EX, J, and SRX for branch devices.
	ospfVirtIfTxRetransmit	1.3.6.1.2.1.14.16.2.11	–	–	M, MX, T, EX, J, and SRX for branch devices.
	ospfMaxAgeLsa	1.3.6.1.2.1.14.16.2.13	–	–	M, MX, T, EX, J, and SRX for branch devices.
	ospfIfStateChange	1.3.6.1.2.1.14.16.2.16	–	–	M, MX, T, EX, J, and SRX for branch devices.
RFC 2787, <i>Definitions of Managed Objects for the Virtual Router Redundancy Protocol</i>	vrrpTrapNewMaster	1.3.6.1.2.1.68.0.1	Warning	VRRPD_NEWMASTER_TRAP	All devices running JUNOS Software.
	vrrpTrapAuthFailure	1.3.6.1.2.1.68.0.2	Warning	VRRPD_AUTH_FAILURE_TRAP	All devices running JUNOS Software.

JUNOS Software also supports the following standard SNMP version 2 traps:

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SNMP Version 2 MPLS Traps

JUNOS Software supports the MPLS SNMP version 2 traps defined in RFC 3812, *Multiprotocol Label Switching (MPLS) Traffic Engineering (TE) Management Information Base*.

You can disable the MPLS traps by including the **no-trap** option at the [edit protocol mpls log-updown] hierarchy level. For information about disabling the generation of MPLS traps, see the *JUNOS MPLS Applications Configuration Guide*.

JUNOS Software supports the following MPLS traps:

- **mplsTunnelUp**—Generated when an **mplsTunnelOperStatus** object for one of the configured tunnels leaves the **down** state and transitions into another state, other than the **notPresent** state.
- **mplsTunnelDown**—Generated when an **mplsTunnelOperStatus** object for one of the configured tunnels enters the **down** state from a state other than the **notPresent** state.



NOTE: When an LSP flaps, only the ingress and egress routers of that LSP generate the **mplsTunnelUp** and **mplsTunnelDown** traps. Previously, all the routers associated with an LSP—that is, the ingress, egress, and transit routers—used to generate the traps when the LSP flaps.

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- **mplsTunnelRerouted**—Generated when a tunnel is rerouted.
 - **mplsTunnelReoptimized**—Generated when a tunnel is reoptimized.



NOTE: In JUNOS Software Release 8.3 and earlier, **mplsTunnelReoptimized** was generated every time the optimization timer expired; that is, when the optimization timer exceeded the value set for the **optimize-timer** statement at the **[edit protocols mpls label-switched-path path-name]** hierarchy level. However, in Release 8.4 and later, this trap is generated only when the path is reoptimized, and not when the optimization timer expires.

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- Related Topics**
- [Juniper Networks Enterprise-Specific SNMP Traps](#)
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Published: 2010-04-27