Support Information for Juniper Devices

This chapter contains support information for Virtual Network Elements (VNEs) that manage Juniper devices in Prime Network Version 3.10.

Note For more information about the objects and attributes described in this chapter, see Cisco *Prime Network 3.10 Supported Cisco VNEs, Cisco Prime Network 3.10 Supported Service Alarms, Cisco Prime Network 3.10 Supported System and Security Events*, and *Cisco Prime Network 3.10 Supported Technologies and Topologies* in the *Cisco Prime Network 3.10 Documentation Guide.*

This chapter contains the following topics:

- Juniper E-Series ERX Edge Routing Switches, page 8-1
- Juniper JCS Control System, page 8-4
- Juniper M-Series Multiservice Edge Routers, page 8-6
- Juniper MX-Series Ethernet Service Routers, page 8-12
- Juniper Netscreen Security Firewall/VPN Device, page 8-16
- Juniper T-Series Core Platforms, page 8-19
- Supported Technologies on Juniper Devices, page 8-22

Juniper E-Series ERX Edge Routing Switches

This section includes the following information about Juniper E-Series devices (for information on the NE types supported in Prime Network Version 3.10, see the Juniper E-Series ERX Edge Routing Switches):

This section contains the following topics:

- Juniper E-Series—Supported Software Versions, page 8-2
- Juniper E-Series—Supported Topologies, page 8-2
- Juniper E-Series—Supported Modules, page 8-2
- Juniper E-Series—Supported Technologies, page 8-3
- Juniper E-Series—Supported Service Events, page 8-3

Juniper E-Series—Supported Software Versions

Table 8-1 Supported Software Versions for Juniper E-Series—Prime Network Version 3.10

Software Version	Product Version	DP Version
5.2.4 patch-0.2	3.7.2	3.0

Juniper E-Series—Supported Topologies

Table 8-2 Supported Topologies for Juniper E-Series—Prime Network Version 3.10

Topology Type	Link Type	Product Version	DP Version
Ethernet	Ethernet	3.7.2	3.0
Physical Layer	Physical Layer	3.7.2	3.0

Juniper E-Series—Supported Modules

Table 8-3 Supported Modules for Juniper E-Series—Prime Network Version 3.10

Module Name	Product Version	Module Description	DP Version
OC3 quad port, ATM	3.7.2	OC-3/STM-1 ATM Line Modules	3.0
System/Route Processor 10G ECC	3.7.2	System/Route Processor 10G ECC	3.0
Fully Channelized E1	3.7.2	Fully Channelized E1	3.0
Fast Ethernet 8-port	3.7.2	Fast Ethernet 8-port	3.0
Dual Port Fast Ethernet	3.7.2	Dual Port Fast Ethernet	3.0
OC12/STM-4 Packet over SONET Line Modules	3.7.2	OC12/STM-4 Packet over SONET Line Modules	3.0
OC-12/STM-4 ATM Line Modules	3.7.2	OC-12/STM-4 ATM Line Modules	3.0
OC3/STM-1 Packet over SONET Line Modules	3.7.2	OC3/STM-1 Packet over SONET Line Modules	3.0
Gigabit Ethernet Line Modules	3.7.2	Gigabit Ethernet Line Modules	3.0
Generic OC3/OC12 POS (multi-personality)	3.7.2	Generic OC3/OC12 POS (multi-personality)	3.0
Generic OC3/OC12 ATM (multi-personality)	3.7.2	Generic OC3/OC12 ATM (multi-personality)	3.0
Channelized T3 Line Module	3.7.2	Channelized T3 Line Module	3.0
UnChannelized T3	3.7.2	UnChannelized T3	3.0

Table 8-3 Supported Modules for Juniper E-Series—Prime Network Version 3.10 (Continued)

Module Name	Product Version	Module Description	DP Version
Channelized OC3/STM-1	3.7.2	Channelized OC3/STM-1	3.0
OC48/STM-16 Packet over SONET Line Modules	3.7.2	OC48/STM-16 Packet over SONET Line Modules	3.0
T3 ATM (4 ports)	3.7.2	T3 ATM (4 ports)	3.0
T3 Frame (12 ports)	3.7.2	T3 Frame (12 ports)	3.0
E3 ATM	3.7.2	E3 ATM	3.0
E3 Frame (12 ports)	3.7.2	E3 Frame (12 ports)	3.0

Juniper E-Series—Supported Technologies

The following technologies are supported by the Juniper E-Series in Prime Network Version 3.10:

- IP, page 8-23
- Routing Protocols, page 8-24
- Ethernet, page 8-26
- MPLS, page 8-29
- VPN (VRF), page 8-33
- Hardware, page 8-34
- Serial, page 8-36
- Additional Technologies, page 8-39

Juniper E-Series—Supported Service Events

Table 8-4 Supported Service Events for Juniper E-Series—Prime Network Version 3.10

Event Name	Product Version	Expedited	DP Version
Active IP Interfaces Found	3.6.0	Y	
All IP Interfaces Down	3.6.0	Y	
BGP process up	3.6.0	N	
Card Down	3.6.0	Y	
Card In	3.6.0	Y	
Card Out	3.6.0	Y	
Card Up	3.6.0	Y	
Cloud Problem	3.6.0	N	
CPU utilization exceeded upper threshold	3.6.0	N	

Table 8-4 Supported Service Events for Juniper E-Series—Prime Network Version 3.10

Event Name	Product Version	Expedited	DP Version
Device Unreachable	3.6.0	N	
Device Unsupported	3.6.0	N	
Interface status down flapping	3.6.0	Y	
Interface status down flapping update	3.6.0	Y	
Keepalive configured	3.6.0	N	
Keepalive not configured	3.6.0	N	
Layer 2 Tunnel Down	3.6.0	N	
Link Down	3.6.0	N	
Link up	3.6.0	N	
Memory utilization exceeded upper threshold	3.6.0	Y	
Module Unsupported	3.6.0	N	
Port Down	3.6.0	N	
Port Flapping	3.6.0	N	
Rx utilization exceeded upper threshold	3.6.0	N	
Tx utilization exceeded upper threshold	3.6.0	N	
VPN Leak	3.6.0	N	

Juniper JCS Control System

This section includes the following information about Juniper JCS Control Syatem devices (for information on the NE types supported in Prime Network Version 3.10, see the Juniper JCS Control System):

This section contains the following topics:

- Juniper JCS—Supported Software Versions, page 8-5
- Juniper JCS—Supported Topologies, page 8-5
- Juniper JCS—Supported Modules, page 8-5
- Juniper JCS—Supported Technologies, page 8-6
- Juniper JCS—Supported Service Events, page 8-6

Juniper JCS—Supported Software Versions

Table 8-5 Supported Software Versions for Juniper JCS—Prime Network Version 3.10

Software Version	Product Version	DP Version
10.0R3.10	3.7.2/3.7.3	6.0
10.0S8.2	3.7.2/3.7.3	6.0
11.1R3.5	3.8.x-To-3.9.x	DP1206
10.4 R8.5	3.8.x-To-3.9.x	DP1206
10.4	3.8.x-To-3.9.x	DP1206

Juniper JCS—Supported Topologies

Table 8-6 Supported Topologies for Juniper JCS—Prime Network Version 3.10

Topology Type	Link Type	Product Version	DP Version
Ethernet	Ethernet	3.7.2/3.7.3	6.0
Physical Layer	Physical Layer	3.7.2/3.7.3	6.0
BFD	BFD	3.8.x-To-3.9.x	DP1206

Juniper JCS—Supported Modules

Table 8-7 Supported Modules for Juniper JCS—Prime Network Version 3.10

Module Name	Product Version	Module Description	DP Version
Mid Plane	3.7.2/3.7.3	Midplane	6.0
Routing Engine	3.7.2/3.7.3	Routing engine	6.0
PCMCIA card	3.7.2/3.7.3	Blade Bay data	6.0

Juniper JCS—Supported Technologies

The following technologies are supported by the Juniper JCS in Prime Network Version 3.10:

- IP, page 8-23
- Routing Protocols, page 8-24
- Ethernet, page 8-26
- Hardware, page 8-34
- BFD, page 8-38

Juniper JCS—Supported Service Events

Table 8-8 Supported Service Events for Juniper JCS—Prime Network Version 3.10

Event Name	Product Version	Expedited	DP Version
Active IP Interfaces Found	3.7.2	Y	6.0
All IP Interfaces Down	3.7.2	Y	6.0
Link Down	3.7.2	N	6.0
Link up	3.7.2	N	6.0
Device Unsupported	3.7.2	N	6.0
Device Unreachable	3.7.2	N	6.0

Juniper M-Series Multiservice Edge Routers

This section includes the following information about Juniper M-Series devices (for information on the NE types supported in Prime Network Version 3.10, see the Juniper JCS Control SystemJuniper M-Series Multiservice Edge Routers):

This section contains the following topics:

- Juniper M-Series—Supported Software Versions, page 8-7
- Juniper M-Series—Supported Topologies, page 8-7
- Juniper M-Series—Supported Modules, page 8-7
- Juniper M-Series—Supported Technologies, page 8-11
- Juniper M-Series—Supported Service Events, page 8-11

Juniper M-Series—Supported Software Versions

Table 8-9 Supported Software Versions for Juniper M-Series—Prime Network Version 3.10

Software Version	Product Version	DP Version
7.1R2.2	3.7.2	1.0
7.6 R3.6	3.7.2	1.0
7.6 R4.2	3.7.2	1.0
7.6 R4.3	3.7.2	1.0
8.1R2.4	3.7.2	1.0
8.1R4.3	3.7.2	1.0
8.2R3.5	3.7.2	1.0
8.2R3.6	3.7.2	1.0
8.1R4.3	3.7.2	1.0
9.0R1.10	3.7.2	1.0
9.3S2	3.7.2	1.0
8.2R4.5	3.7.2	1.0

Juniper M-Series—Supported Topologies

Table 8-10 Supported Topologies for Juniper M-Series—Prime Network Version 3.10

Topology Type	Link Type	Product Version	DP Version
Ethernet	Ethernet	3.7.2	1.0

Juniper M-Series—Supported Modules

Table 8-11 Supported Modules for Juniper M-Series—Prime Network Version 3.10

Module Name	Product Version	Module Description	DP Version
CB	3.7.2	Control Board	1.0
CFEB INTERNET PROCESSOR II	3.7.2	Fuse Module	1.0
CIP	3.7.2	Connector Interface Pannel	1.0
FPC: M320 FPC TYPE 1	3.7.2	Flexible PIC Concentrators	1.0
FPM GBUS	3.7.2	Fuse Module	1.0
JNXCBD	3.7.2	CBD	1.0

Table 8-11 Supported Modules for Juniper M-Series—Prime Network Version 3.10 (Continued)

Module Name	Product Version	Module Description	DP Version
JNXFAN	3.7.2	Fan	1.0
JNXFPB	3.7.2	FPB	1.0
JNXFPC	3.7.2	FPC	1.0
JNXHM	3.7.2	HM	1.0
JNXPICTYPE3TENPORTGIGETHER	3.7.2	PIC: 10x 1GE(LAN), 1000 BASE	1.0
JNXPOWER	3.7.2	Power Supply	1.0
M10I HCM	3.7.2	M10i High-Availability Chassis Manager	1.0
M10I MIDPLANE	3.7.2	M10i Midplane	1.0
M320-FPC2	3.7.2	Juniper Networks Flexible PIC Concentrator FPC2 - expansion module	1.0
M320MIDPLANE	3.7.2	M320 Midplane	1.0
MEM-FPC-512-S	3.7.2	Optional FPC Memory Upgrade	1.0
PB-1GE-SFP-QPP	3.7.2	1 PORT GIGABIT ETHERNET IQ PIC (USES SFP OPTICS MODULES - SEE INTERFACE ACCESSORIES SECTION)	1.0
PB-2GE-SFP-QPP	3.7.2	2-Port Gigabit Ethernet Services PIC with QPP	1.0
PB-2GE-SFP-QPP	3.7.2	2-Port Gigabit Ethernet IQ PIC (Uses SFP Optics Modules	1.0
PB-2OC3-ATM2-SMIR	3.7.2	2-PORT OC-3/STM1 ATM SERVICES PIC, SINGLE MODE, IR (WITH DIFF. SERV)	1.0
PB-4CHDS3-QPP	3.7.2	4-Port Channelized DS3 to DS0 Services PIC with QPP, BNC	1.0
PB-4GE-SFP	3.7.2	Juniper Networks expansion module	1.0
PB-4GE-SFP	3.7.2	4-Port Gigabit Ethernet PIC (Requires pluggable SFP Optics Modules: SFP-1GE-SX, SFP-1GE-LX, SFP-1GE-LH, or SFP-1GE-T - See Interface Accessories section)	1.0
PB-4OC3-SON-SMIR	3.7.2	4-Port SONET/SDH OC3/STM-1 PIC, SingleMode IR, for M160-FPC1	1.0
PC-1XGE-XENPAC	3.7.2	1 PORT 10 GIGABIT Ethernet PIC M320,T320,T640	1.0
PC-4OC3-SON-SMIR	3.7.2	4-port SONET,SDH OC3,STM1 PIC, SMIR (For use with T640 and T320 FPC2)	1.0

Table 8-11 Supported Modules for Juniper M-Series—Prime Network Version 3.10 (Continued)

Module Name	Product Version	Module Description	DP Version
PC-8GE-TYPE3-SFP-IQ2	3.7.2	8-Port Type3 Gigabit Ethernet IQ2 PIC (Uses SFP Optics Modules - See Interface Accessories section)	1.0
PEM	3.7.2	AC/DC Power Supply	1.0
PIC: 10X CHE1 IQ	3.7.2	10 Port Channelized E1 IQ PIC	1.0
PIC: 1X 10GE(LAN/WAN) IQ2	3.7.2	1Port 10-Gigabit Ethernet IQ2 PIC with XFP	1.0
PIC: 1X CHSTM1 IQ SDH, SMIR	3.7.2	1 Port Channelized STM1 IQ PIC	1.0
PIC: 1X G/E IQ, 1000 BASE	3.7.2	1 Port Gigabit Ethernet IQ PIC with SFP	1.0
PIC: 1X G/E, 1000 BASE	3.7.2	1 Port Gigabit Ethernet PIC with SFP	1.0
PIC: 1X G/E, 1000 BASE-SX	3.7.2	1 Port Gigabit Ethernet IQ PIC with SFP	1.0
PIC: 1X OC-12 SONET, SMIR	3.7.2	1 Port SONET/SDH OC12c/STM4 PIC	1.0
PIC: 1X OC-48 SONET SFP	3.7.2	1 Port SONET/SDH OC48c/STM16 PIC with SFP	1.0
PIC: 1X STM-16 SDH, SMSR	3.7.2	1 Port STM16 PIC with SFP	1.0
PIC: 1X STM-4 SDH, MM	3.7.2	1 Port SONET/SDH OC12c/STM4 PIC	1.0
PIC: 1X TUNNEL	3.7.2	Tunnel Services PIC	1.0
PIC: 2X OC-3 ATM-II IQ, SMIR	3.7.2	2 Port ATM2 OC3/STM1 IQ PIC	1.0
PIC: 2X T3	3.7.2	2 Port T3 PIC	1.0
PIC: 4X CHDS3 IQ	3.7.2	4 Port Channelized DS3 IQ PIC	1.0
PIC: 4X E1, RJ48	3.7.2	4-Port E1 with RJ48 connectors	1.0
PIC: 4X E3 IQ	3.7.2	4 Port E3 IQ PIC	1.0
PIC: 4X F/E, 100 BASE-TX	3.7.2	4 100Base-TX ports Fast Ethernet PICs	1.0
PIC: 4X STM-1 SDH, SMIR	3.7.2	4 Port SONET/SDH OC3c/STM1 PIC	1.0
PIC: 4X STM-4 SDH, SMIR	3.7.2	4 Port SONET/SDH OC12c/STM4 PIC	1.0
PIC: ADAPTIVE SERVICES-II	3.7.2	Physical Interface Card	1.0
RE-1600-2048-BB	3.7.2	Juniper M-Series routing engine with 1600MHz panel and 2GB memory - Base Bundle	1.0
ROUTING ENGINE 0	3.7.2	Routing Engine	1.0
SFP-1GE-LX	3.7.2	Small Form Factor Pluggable 1000Base-LX Gigabit Ethernet Optic Module	1.0
SIB	3.7.2	Switch Interface Board	1.0
TOP FAN	3.7.2	Fan Module	1.0
XENPAK-1XGE-LR	3.7.2	Juniper Networks transceiver module	1.0

Table 8-11 Supported Modules for Juniper M-Series—Prime Network Version 3.10 (Continued)

Module Name	Product Version	Module Description	DP Version
JNXM20FPC	3.7.2/3.7.3	FPC	4.0
JNXM20FAN	3.7.2/3.7.3	Fan Tray - M20	4.0
JNXM20SSB	3.7.2/3.7.3	SSB	4.0
JNXBACKPLANEM20	3.7.2/3.7.3	Backplane	4.0
JNXM20RE	3.7.2/3.7.3	Routing Engine 0	4.0
JNXM20POWER	3.7.2/3.7.3	PEM	4.0
JNXM20FRONTPANEL	3.7.2/3.7.3	Front Panel	4.0
JNXM40EFPC	3.7.2/3.7.3	FPC	4.0
JNXM40EFan	3.7.2/3.7.3	Fan Tray - M40e	4.0
JNXM40ESFM	3.7.2/3.7.3	SFM	4.0
JNXMIDPLANEM40e	3.7.2/3.7.3	Midplane	4.0
JNXM40EHM	3.7.2/3.7.3	Routing Engine 0	4.0
JNXM40EPOWER	3.7.2/3.7.3	PEM	4.0
JNXM40EPCG	3.7.2/3.7.3	PCG	4.0
JNXM40EMCS	3.7.2/3.7.3	MCS	4.0
JNXM40EFPM	3.7.2/3.7.3	FPM	4.0
JNXM40ECIP	3.7.2/3.7.3	CIP	4.0
JNXM120FEB	3.7.2/3.7.3	FEB	4.0
PIC: 4x OC-3 SONET SMIR	3.7.2/3.7.3	4 Port SONET/SDH OC3/STM4 PIC	6.0
PIC: ASP - Integrated	3.7.2/3.7.3	PIC: ASP - Integrated	6.0

Table 8-11 Supported Modules for Juniper M-Series—Prime Network Version 3.10 (Continued)

Module Name	Product Version	Module Description	DP Version
PIC: 2x F/E, 100 BASE-TX	3.7.2/3.7.3	2 Port Fast Ethernet PIC with SFP	6.0
M7i Midplane	3.7.2/3.7.3	M7i Midplane	6.0
PIC: 2x CHSTM-1 IQE SDH	3.8	2 Port Channelized STM PIC	2.0

Juniper M-Series—Supported Technologies

The following technologies are supported by the Juniper M-Series in Prime Network Version 3.10:

- IP, page 8-23
- Routing Protocols, page 8-24
- Ethernet, page 8-26
- ATM, page 8-27
- Frame Relay, page 8-28
- PPP, page 8-28
- SONET/SDH, page 8-28
- TDM/DSx, page 8-29
- MPLS, page 8-29
- VPN (VRF), page 8-33
- Hardware, page 8-34
- BFD, page 8-38
- Serial, page 8-36

Juniper M-Series—Supported Service Events

Table 8-12 Supported Service Events for Juniper M-Series—Prime Network Version 3.10

Event Name	Product Version	Expedited	DP Version
Active IP Interfaces Found	3.6.1	Y	
All IP Interfaces Down	3.6.1	Y	
BGP link down vrf due to oper	3.6.1	Y	
BGP link up	3.6.1	Y	
BGP process up	3.6.1	N	
Card Down	3.6.1	Y	
Card In	3.6.1	Y	

Table 8-12 Supported Service Events for Juniper M-Series—Prime Network Version 3.10

Event Name	Product Version	Expedited	DP Version
Card Out	3.6.1	Y	
Card Up	3.6.1	Y	
Cloud Problem	3.6.1	N	
CPU utilization exceeded upper threshold	3.6.1	N	
Device Unreachable	3.6.1	N	
Device Unsupported	3.6.1	N	
Interface status down flapping	3.6.1	Y	
Interface status down flapping update	3.6.1	Y	
Interface Status Down/Up	3.6.1	N	
Keepalive configured	3.6.1	N	
Keepalive not configured	3.6.1	N	
Layer 2 Tunnel Down	3.6.1	N	
Link Down	3.6.1	N	
Link up	3.6.1	N	
Memory utilization exceeded upper threshold	3.6.1	N	
Module Unsupported	3.6.1	N	
Port Down	3.6.1	N	
Port Flapping	3.6.1	N	
Rx utilization exceeded upper threshold	3.6.1	N	
Tx utilization exceeded upper threshold	3.6.1	N	
VPN Leak	3.6.1	N	

Juniper MX-Series Ethernet Service Routers

This section includes the following information about Juniper MX-Series devices (for information on the NE types supported in Prime Network Version 3.10, see the Juniper MX-Series Ethernet Service Routers):

This section contains the following topics:

- Juniper MX-Series—Supported Software Versions, page 8-13
- Juniper MX-Series—Supported Topologies, page 8-13
- Juniper MX-Series—Supported Modules, page 8-14
- Juniper MX-Series—Supported Technologies, page 8-15
- Juniper MX-Series—Supported Service Events, page 8-16

Juniper MX-Series—Supported Software Versions

Table 8-13 Supported Software Versions for Juniper MX-Series—Prime Network Version 3.10

Software Version	Product Version	DP Version
9.2S2	3.7.2	2.0
9.2-20081012.0	3.7.2	2.0
9.2R4.4	3.7.2	2.0
10.0S7.1	3.7.2	2.0
9.3R4.4	3.7.2	2.0
10.4	3.8.x-To-3.9.x	DP1206
10.4R6.5	3.8.x-To-3.9.x	DP1206
10.4R8.5	3.8.x-To-3.9.x	DP1206
10.0S8.2	3.8.x-To-3.9.x	DP1206
10.0R2.10	3.8.x-To-3.9.x	DP1206
10.4R4.4	3.8.x-To-3.9.x	DP1206
10.4R8.6	3.10.x-To-3.11x	DP1308
11.4R5.5	3.10.x-To-3.11x	DP1308
11.4R6-S2	3.10.x-To-3.11x	DP1308

Juniper MX-Series—Supported Topologies

Table 8-14 Supported Topologies for Juniper MX-Series—Prime Network Version 3.10

Topology Type	Link Type	Product Version	DP Version
Ethernet	Ethernet	3.7.2	2.0
Physical Layer	Physical Layer	3.7.2	2.0

Juniper MX-Series—Supported Modules

Table 8-15 Supported Modules for Juniper MX-Series—Prime Network Version 3.10

Module Name	Product Version	Module Description	DP Version
MX960 Midplane	3.7.2	MX960 Midplane	2.0
FPM Board	3.7.2	MX960 Front Panel Display	2.0
PDM	3.7.2	MX960 Power Distribution Module	2.0
PEM	3.7.2	PS 1.7kW	2.0
200-240VAC in Routing Engine 1	3.7.2	RE-S-2000	2.0
CB	3.7.2	MX SCB (Switch Control Board)	2.0
MX960FPC	3.7.2	DPCE 40x 1GE REQ	2.0
MX960 CPU FPC	3.7.2	DPC 4x 10GE R	2.0
MX960 CPU	3.7.2	DPC PMB	2.0
PIC: 1x10GE(LAN/WAN)	3.7.2	PIC: 1x10GE(LAN/WAN)	2.0
PIC: 1x10GE(LAN/WAN) EQ	3.7.2	PIC: 1x10GE(LAN/WAN) EQ	
PIC: 10x1GE(LAN)	3.7.2	PIC: 10x1GE(LAN)	
PIC: 10x1GE(LAN) EQ	3.7.2	PIC: 10x1GE(LAN) EQ	
Xcvr 0: XFP-10G-LR	3.7.2	XFP-10G-LR	2.0
Xcvr 0: XFP-10G-SR	3.7.2	XFP-10G-SR	2.0
MX960 FPC 9	3.7.2	DPC 40x 1GE R	2.0
Top Fan Tray	3.7.2	Top Fan Tray	2.0
Bottom Fan Tray	3.7.2	Bottom Fan Tray	2.0
MX480 Midplane	3.7.2	MX480 Midplane	3.0
FPM Board	3.7.2	MX480 Front Panel Display	3.0
PEM	3.7.2	PEM	3.0
Rear Fan Tray	3.7.2	Rear Fan Tray	3.0
MX240 Midplane	3.7.2/3.7.3	MX240 Midplane	4.0
PEM	3.8.x-To-3.9.x	DC Power Entry Module for MX960	DP1206
RE-S-2000-4096-S	3.8.x-To-3.9.x	MX 960 Routing Engine	DP1206
DPCE-R-40GE-SFP	3.8.x-To-3.9.x	40x1GE Enhanced DPC	DP1206
DPCE-R-4XGE-XFP	3.8.x-To-3.9.x	4x10GE Enhanced DPC	DP1206
XFP-10G-LR	3.8.x-To-3.9.x	Dual Rate 10G pluggable transceiver for 10GE and OC192, 1310nm	DP1206

Table 8-15 Supported Modules for Juniper MX-Series—Prime Network Version 3.10 (Continued)

Module Name	Product Version	Module Description	DP Version
SFP-LX10	3.8.x-To-3.9.x	1000Base-LX Gigabit Ethernet Optic Module	DP1206
SFP-1GE-T	3.8.x-To-3.9.x	1000Base-T Gigabit Ethernet Module	DP1206
FANTRAY-MX960-HC-S	3.8.x-To-3.9.x	Enhanced Fan Tray	DP1206
MX-MPC2-3D-R-B	3.8.x-To-3.9.x	MPC type 2, full scale L3 features	DP1206
MIC-3D-4XGE-XFP	3.8.x-To-3.9.x	4x10G MIC	DP1206
MS-DPC	3.8.x-To-3.9.x	Multi Services DPC	DP1206
MX80 Midplane	3.10.x-To-3.11x	MX80 Midplane	DP1308
MIC: 4x 10GE XFP	3.10.x-To-3.11x	MIC: 4x 10GE XFP	DP1308
MIC: 3D 2x 10GE XFP	3.10.x-To-3.11x	MIC: 3D 2x 10GE XFP	DP1308
MX 80 Routing Engine	3.10.x-To-3.11x	MX 80 Routing Engine	DP1308

Juniper MX-Series—Supported Technologies

The following technologies are supported by the Juniper MX-Series in Prime Network Version 3.10:

- IP, page 8-23
- Routing Protocols, page 8-24
- Ethernet, page 8-26
- MPLS, page 8-29
- MPLS-TE, page 8-31
- VPN (VRF), page 8-33
- PWE3, page 8-34
- Hardware, page 8-34
- Serial, page 8-36
- Carrier Ethernet, page 8-37
- BFD, page 8-38
- LLDP, page 8-38
- CGN, page 8-39

Juniper MX-Series—Supported Service Events

Table 8-16 Supported Service Events for Juniper MX-Series—Prime Network Version 3.10

Event Name	Product Version	Expedited	DP Version
All IP Interfaces Down / Active IP Interfaces Found	3.6.0	Y	
Interface Status Down/Up	3.6.0	N	
Card In/Out	3.6.0	N	
Link Down/Up	3.6.0	N	
Device Unreachable	3.6.0	N	
CPU Over Utilized	3.6.0	N	
Memory Over Utilized	3.6.0	N	
Device Unsupported	3.6.0	N	
Module Unsupported	3.6.0	N	
Port Flapping	3.6.0	N	
Port Down	3.6.0	N	
MPLS TE Tunnel Down/Flapping	3.7.2	Y	8.0
BGP Neighbor Down	3.6.0	Y	
Card Up/Down	3.6.0	N	
LDP neighbor down	3.7.2	Y	8.0
LDP neighbor up	3.7.2	Y	8.0
MPLS interface added	3.6.0	Y	
MPLS interface removed	3.6.0	Y	
MPLS-TE tunnel up	3.7.2	Y	8.0
OSPFneighbor down	3.6.0	Y	
OSPFneighbor up	3.6.0	Y	

Juniper Netscreen Security Firewall/VPN Device

This section includes the following information about Juniper Netscreen Security Firewall/VPN devices (for information on the NE types supported in Prime Network Version 3.10, see the Juniper Netscreen Security Firewall/VPN Device):

This section contains the following topics:

- Juniper NetScreen Security Firewall/VPN Device—Supported Software Versions, page 8-17
- Juniper NetScreen Security Firewall/VPN Device—Supported Topologies, page 8-17
- Juniper NetScreen Security Firewall/VPN Device—Supported Modules, page 8-17
- Juniper NetScreen Security Firewall/VPN Device—Supported Technologies, page 8-18

- Juniper NetScreen Security Firewall/VPN Device—Supported Service Events, page 8-18

Juniper NetScreen Security Firewall/VPN Device—Supported Software Versions

Table 8-17 Supported Software Versions for Juniper NetScreen Security Firewall/VPN Device—Prime Network Version 3.10

Software Version	Product Version	DP Version
ScreenOS 6.2 revision 2 Cb8	3.7.2/3.7.3	6.0
Screen OS6.3.0revision7.0	3.7.2/3.7.3	6.0

Juniper NetScreen Security Firewall/VPN Device—Supported Topologies

Table 8-18 Supported Topologies for Juniper NetScreen Security Firewall/VPN Device—Prime Network Version 3.10

Topology Type	Link Type	Product Version	DP Version
Ethernet	Ethernet	3.7.2/3.7.3	6.0
Physical Layer	Physical Layer	3.7.2/3.7.3	6.0

Juniper NetScreen Security Firewall/VPN Device—Supported Modules

Table 8-19 Supported Modules for Juniper NetScreen Security Firewall/VPN Device—Prime Network Version 3.10

Module Name	Product Version	Module Description	DP Version
Fan Tray	3.7.2/3.7.3	Fan Tray	6.0
5000-MG3	3.7.2/3.7.3	Management Module 3	6.0
5000-8G2-G4	3.7.2/3.7.3	8 x GigE Secure Port Module (SPM) - includes 8 x transceivers (SX)	6.0
Power Entry Module	3.7.2/3.7.3	Power supply module	6.0

Juniper NetScreen Security Firewall/VPN Device—Supported Technologies

The following technologies are supported by the Juniper NetScreen in Prime Network Version 3.10:

- IP, page 8-23
- Ethernet, page 8-26
- Hardware, page 8-34
- Serial, page 8-36

Juniper NetScreen Security Firewall/VPN Device—Supported Service Events

Table 8-20 Supported Service Events for Juniper NetScreen Security Firewall/VPN Device—Prime Network Version 3.10

Event Name	Product Version	Expedited	DP Version
All IP Interfaces Down / Active IP Interfaces Found	3.7.2	N	
Interface Status Down/Up	3.7.2	Y	
Card In/Out	3.7.2	N	
Link Down/Up	3.7.2	N	
Device Unreachable	3.7.2	N	
CPU Over Utilized	3.7.2	N	
Memory Over Utilized	3.7.2	N	
Device Unsupported	3.7.2	N	
Discard Packets	3.7.2	N	
Dropped Packets	3.7.2	N	
Module Unsupported	3.7.2	N	
Port Flapping	3.7.2	N	
Port Down	3.7.2	N	
Rx Over Utilized	3.7.2	N	
Tx Over Utilized	3.7.2	N	
VPN Leak	3.7.2	N	
BGP Neighbor Down	3.7.2	N	
Card Up/Down	3.7.2	N	

Juniper T-Series Core Platforms

This section includes the following information about Juniper T-Series devices (for information on the NE types supported in Prime Network Version 3.10, see the Juniper T-Series Core Platforms):

This section contains the following topics:

- Juniper T-Series—Supported Software Versions, page 8-19
- Juniper T-Series—Supported Topologies, page 8-19
- Juniper T-Series—Supported Modules, page 8-19
- Juniper T-Series—Supported Technologies, page 8-21
- Juniper T-Series—Supported Service Events, page 8-22

Juniper T-Series—Supported Software Versions

Table 8-21 Supported Software Versions for Juniper T-Series—Prime Network Version 3.10

Software Version	Product Version	DP Version
8.2R3.6	3.7.2	1.0
7.6R3.6	3.7.2	1.0
8.2R3.5	3.7.2	1.0
9.1R2.10	3.7.2	3.0
9.0R2.10	3.7.2	3.0

Juniper T-Series—Supported Topologies

Table 8-22 Supported Topologies for Juniper T-Series—Prime Network Version 3.10

Topology Type	Link Type	Product Version	DP Version
Ethernet	Ethernet	3.7.2	1.0

Juniper T-Series—Supported Modules

Table 8-23 Supported Modules for Juniper T-Series—Prime Network Version 3.10

Module Name	Product Version	Module Description	DP Version
CIP-L-T640-S	3.7.2	Connector Interface Panel	1.0
FT-T640	3.7.2	Fan Tray - T640	1.0
MEM-FPC-512-S	3.7.2	512MB DRAM for FPC	1.0
PC-10GE-SFP	3.7.2	PIC: 10x 1GE(LAN), 1000 BASE	1.0

Table 8-23 Supported Modules for Juniper T-Series—Prime Network Version 3.10 (Continued)

Module Name	Product Version	Module Description	DP Version
PC-1XGE-XENPAK	3.7.2	PIC, 1-Port 10GE, XENPAK Optics	1.0
PC-8GE-TYPE3-SFP-IQ2	3.7.2	Gigabit Ethernet IQ2, 8-port SFP	1.0
PIC: 1X OC-192 SM SR1	3.7.2	PIC: 1x OC-192 SM SR1	1.0
PIC: 1X TUNNEL	3.7.2	Tunnel Services PIC	1.0
RE-1600-2048-BB	3.7.2	Routing Engine, 1600Mhz, 2048 MB DRAM	1.0
RE-1600-2048-R	3.7.2	Routing Engine, 1600 Mhz, 2048 MB DRAM - redundant	1.0
SCG-T	3.7.2	T Series Sonet ClockGenerator	1.0
SCG-T-BB	3.7.2	T640 SONET Clock Generator Board	1.0
SFP-1GE-LH	3.7.2	SFP Pluggable 1000Base-LH GE Optic Module	1.0
SFP-1GE-LX	3.7.2	SFP Pluggable 1000Base-LX GE Optic Module	1.0
T640-FPC3-E2	3.7.2	FPC: E2-FPC Type 1, FPC: E-FPC Type 3	1.0
XENPAK-1XGE-LR	3.7.2	XENPAK Pluggable 10GBase-LR Optic Module	1.0
JNXT320FPC	3.7.2	Enhanced II FPC3	3.0
JNXT320Fan	3.7.2	Fan Tray - T320	3.0
JNXT320CIP	3.7.2	Connector Interface Panel	3.0
JNXMidplaneT320	3.7.2	Midplane	3.0
JNXT320FPB	3.7.2	FPM Display	3.0
JNXT320CB	3.7.2	CB 0	3.0
JNXT320SCG	3.7.2	SCG 0	3.0
JNXT320SPMB	3.7.2	SPMB 0	3.0
JNXT320HM	3.7.2	Routing Engine 0	3.0
JNXPCMCIACard	3.7.2	Routing Engine 0 PCMCIA Card 0	3.0
JNXT320Power	3.7.2	PEM	3.0
JNXT320SIB	3.7.2	SIB 0	3.0
PIC: 4x OC-3 SONET	3.7.2	PIC: 4x OC-3 SONET, SMIR @ 0/0/*	3.0
JNXT1600FPC	3.7.2/3.7.3	Enhanced II FPC3	4.0
JNXT1600Fan	3.7.2/3.7.3	Fan Tray - T1600	4.0
JNXT1600CIP	3.7.2/3.7.3	Connector Interface Panel	4.0

Table 8-23 Supported Modules for Juniper T-Series—Prime Network Version 3.10 (Continued)

Module Name	Product Version	Module Description	DP Version
JNXMidplaneT1600	3.7.2/3.7.3	midplane	4.0
JNXT1600FPB	3.7.2/3.7.3	FPM Display	4.0
JNXT1600CB	3.7.2/3.7.3	CB 0	4.0
JNXT1600SCG	3.7.2/3.7.3	SCG 0	4.0
JNXT1600SPMB	3.7.2/3.7.3	SPMB 0	4.0
JNXT1600HM	3.7.2/3.7.3	Routing Engine 0	4.0
JNXPCMCIACard	3.7.2/3.7.3	Routing Engine 0 PCMCIA Card 0	4.0
JNXT1600Power	3.7.2/3.7.3	PEM	4.0
JNXT1600SIB	3.7.2/3.7.3	SIB 0	4.0

Juniper T-Series—Supported Technologies

The following technologies are supported by the Juniper T-Series in Prime Network Version 3.10:

- IP, page 8-23
- Routing Protocols, page 8-24
- Ethernet, page 8-26
- ATM, page 8-27
- Frame Relay, page 8-28
- PPP, page 8-28
- MPLS, page 8-29
- VPN (VRF), page 8-33
- Hardware, page 8-34
- Serial, page 8-36
- BFD, page 8-38

Juniper T-Series—Supported Service Events

Table 8-24 Supported Service Events for Juniper T-Series—Prime Network Version 3.10

Event Name	Product Version	Expedited	DP Version
All IP Interfaces Down / Active IP Interfaces Found	3.6.1	Y	
Interface Status Down/Up	3.6.1	Y	
Card In/Out	3.6.1	Y	
Link Down/Up	3.6.1	Y	
Device Unreachable	3.6.1	N	
CPU Over Utilized	3.6.1	N	
Memory Over Utilized	3.6.1	N	
Device Unsupported	3.6.1	N	
Module Unsupported	3.6.1	Y	
Port Flapping	3.6.1	N	
Port Down	3.6.1	Y	
BGP Neighbor Down	3.6.1	N	
Card Up/Down	3.6.1	Y	

Supported Technologies on Juniper Devices

The following sections list the objects and attributes that are supported on Juniper devices in Prime Network Version 3.10 per technology:

This section contains the following topics:

- IP, page 8-23
- Routing Protocols, page 8-24
- Ethernet, page 8-26
- ATM, page 8-27
- Frame Relay, page 8-28
- PPP, page 8-28
- SONET/SDH, page 8-28
- TDM/DSx, page 8-29
- MPLS, page 8-29
- MPLS-TE, page 8-31
- VPN (VRF), page 8-33
- Hardware, page 8-34

- Serial, page 8-36
- Carrier Ethernet, page 8-37
- BFD, page 8-38
- LLDP, page 8-38
- CGN, page 8-39
- Additional Technologies, page 8-39

IP

The following table (Table 8-25) lists the ip attributes that are supported on Juniper devices in Prime Network Version 3.10 per technology:

Table 8-25 IP Attribute Support on Juniper Devices—Prime Network Version 3.10

Attribute	E-Series	JCS	M-Series	MX-Series	NetScreen-Series	T-Series
IMO Name—IIPInterface						
IP Address	Y	Y	Y	Y	Y	Y
Subnetwork Mask	Y	Y	Y	Y	Y	Y
IP Interface Addresses Array		Y	Y			Y
Interface Name	Y	Y	Y	Y	Y	Y
Interface Description				Y		
IP Interface State	Y	Y	Y	Y	Y	Y
IMO Name—IRoutingEntity						
Routing Table	Y	Y	Y	Y	Y	Y
ARP Entity		Y	Y	Y	Y	Y
Name	Y	Y	Y	Y	Y	Y
Logical Sons	Y		Y	Y	Y	Y
IMO Name—IRoutingEntry						
Destination IP Subnet	Y	Y	Y	Y	Y	Y
Next Hop IP Address	Y	Y	Y	Y	Y	Y
Type	Y	Y	Y	Y	Y	Y
Routing Protocol Type	Y	Y	Y	Y	Y	Y
Outgoing Interface Name	Y	Y	Y	Y	Y	Y
IMO Name—IARPEntity						
ARP Table	Y	Y	Y	Y	Y	Y

Table 8-25 IP Attribute Support on Juniper Devices—Prime Network Version 3.10 (Continued)

Attribute	E-Series	JCS	M-Series	MX-Series	NetScreen-Series	T-Series
IMO Name—IARPEntry						
IP Address	Y	Y	Y	Y	Y	Y
MAC Address	Y	Y	Y	Y	Y	Y
Port	Y	Y	Y	Y	Y	Y
Entry Type	Y	Y	Y	Y	Y	Y

Routing Protocols

The following table (Table 8-26) lists therouting protocols attributes that are supported on Juniper devices in Prime Network Version 3.10 per technology:

Table 8-26 Routing Protocols Attribute Support on Juniper Devices—Prime Network Version 3.10

Attribute	E-Series	JCS	M-Series	MX-Series	NetScreen-Series	T-Series
IMO Name—IBgpNeighborEntry						
Remote Identifier		Y	Y	Y		Y
Neighbor Type		Y	Y			Y
Remote Address		Y	Y	Y		Y
Remote Autonomous System		Y	Y	Y		Y
Peer State		Y	Y	Y		Y
Hold Time		Y	Y	Y		Y
Keep Alive Time		Y	Y	Y		Y
IMO Name—IOspfProcess						
Process Id		Y	Y	Y		Y
OSPF Version		Y	Y	Y		Y
Router Id		Y	Y	Y		Y
IMO Name—IOspfNeighbor						
Neighbor Id		Y	Y	Y		Y
Outgoing Interface		Y	Y	Y		Y

Table 8-26 Routing Protocols Attribute Support on Juniper Devices—Prime Network Version 3.10 (Continued)

Attribute	E-Series	JCS	M-Series	MX-Series	NetScreen-Series	T-Series
State		Y	Y	Y		Y
Neighbor Interface Address		Y	Y	Y		Y
Area Id		Y	Y	Y		Y
IMO Name—IOspfInterface						
Area Id		Y	Y	Y		Y
Network Type		Y	Y	Y		Y
Cost		Y	Y	Y		Y
State		Y	Y	Y		Y
Interface Address		Y	Y	Y		Y
Type		Y	Y	Y		Y
IF Proirity		Y	Y	Y		Y
DR Id		Y	Y	Y		Y
BDR Id		Y	Y	Y		Y
IMO Name—ISpfTimers						
Schedule Delay		Y	Y	Y		Y
Min Hold Time			Y			
Max Wait Time			Y			
IMO Name—IISISProcess						
ISIS Version				Y		
Manual Area Address				Y		
IS Type				Y		
System Id				Y		
Process Id				Y		
IMO Name—IISISMetric						
IS Type				Y		
Metric Style				Y		
Metric Value				Y		
Address Family				Y		
IMO Name—IISISInterface						
Interface Name			Y	Y		
IMO Name—IISISNeighbor						
IS Type			Y	Y		

Table 8-26 Routing Protocols Attribute Support on Juniper Devices—Prime Network Version 3.10 (Continued)

Attribute	E-Series	JCS	M-Series	MX-Series	NetScreen-Series	T-Series
System Id				Y		
Admin State				Y		
Hold Time				Y		
SNPA				Y		
Interface Name				Y		
IP Address				Y		
Adress Family				Y		

Ethernet

The following table (Table 8-27) lists the ethernet protocols attributes that are supported on Juniper devices in Prime Network Version 3.10 per technology:

Table 8-27 Ethernet Attribute Support on Juniper Devices—Prime Network Version 3.10

Attribute	E-Series	JCS	M-Series	MX-Series	NetScreen-Series	T-Series
IMO Name—IEthernet						
MAC Address	Y	Y	Y	Y	Y	Y
isElmiEnabled		Y		Y	Y	
AutoNegotiate		Y	Y	Y		Y
IMO Name—IVlanInterface						
Native VLAN Identification				Y		
vlanencapType				Y		
IMO Name—IVlanEncapMux						
IANA Type		Y	Y			Y
IMO Name—IIEEE802						
VLAN Identification		Y	Y			Y

Table 8-27 Ethernet Attribute Support on Juniper Devices—Prime Network Version 3.10

Attribute	E-Series	JCS	M-Series	MX-Series	NetScreen-Series	T-Series
IANA Type		Y	Y			Y

ATM

The following table (Table 8-28) lists the atm protocols attributes that are supported on Juniper devices in Prime Network Version 3.10 per technology:

Table 8-28 ATM Attribute Support on Juniper Devices—Prime Network Version 3.10

Attribute	E-Series	JCS	M-Series	MX-Series	NetScreen-Series	T-Series
IMO Name—IAtm						
Interface Type						Y
VC Table			Y			Y
IANA Type			Y			Y
Tx Allocated Bandwidth			Y			Y
Tx Maximum Bandwidth			Y			Y
Tx UBR Allocated Bandwidth			Y			Y
Tx CBR Allocated Bandwidth			Y			Y
Rx Allocated Bandwidth			Y			Y
Rx Maximum Bandwidth			Y			Y
Rx UBR Allocated Bandwidth			Y			Y
Rx CBR Allocated Bandwidth			Y			Y
IMO Name—IAtmVc						
Virtual Channel Identifier			Y			Y
Virtual Path Identifier			Y			Y
Administrative Status			Y			Y
Operational Status			Y			Y

Frame Relay

The following table (Table 8-29) lists the frame relay protocols attributes that are supported on Juniper devices in Prime Network Version 3.10 per technology:

Table 8-29 Frame Relay Attribute Support on Juniper Devices—Prime Network Version 3.10

Attribute	E-Series	JCS	M-Series	MX-Series	NetScreen-Series	T-Series
IMO Name—Iframerelay/IFrTrunk						
Protocol Type			Y			Y
VC Table			Y			Y
IMO Name—IFrVc						
Data Link Connection Identifier			Y			Y
Administrative Status			Y			Y
Operational Status			Y			Y
IMO Name—IEncapsulation						
Virtual Connection Interface			Y			Y

PPP

The following table (Table 8-30) lists the ppp protocols attributes that are supported on Juniper devices in Prime Network Version 3.10 per technology:

Table 8-30 PPP Attribute Support on Juniper Devices—Prime Network Version 3.10

Attribute	E-Series	JCS	M-Series	MX-Series	NetScreen-Series	T-Series
IMO Name—IVcBasedEncapsulation						
Virtual Connection			Y			Y

SONET/SDH

The following table (Table 8-31) lists the SONET/SDH protocols attributes that are supported on Juniper devices in Prime Network Version 3.10 per technology:

Table 8-31 SONET/SDH Attribute Support on Juniper Devices—Prime Network Version 3.10

Attribute	E-Series	JCS	M-Series	MX-Series	NetScreen-Series	T-Series
IMO Name—ISonetSdh)						
Loopback Type			Y			
Scrambling Mode			Y			
clocking			Y			

TDM/DSx

The following table (Table 8-32) lists the TDM/DSx protocols attributes that are supported on Juniper devices in Prime Network Version 3.10 per technology:

Table 8-32 TDM/DSx Attribute Support on Juniper Devices—Prime Network Version 3.10

Attribute	E-Series	JCS	M-Series	MX-Series	NetScreen-Series	T-Series
IMO Name—IDS1Pdh / IDS3Pdh						
Framing Type			Y			
Scrambling Mode			Y			
clocking			Y			
loopback			Y			

MPLS

The following table (Table 8-33) lists the mpls protocols attributes that are supported on Juniper devices in Prime Network Version 3.10 per technology:

Table 8-33 MPLS Attribute Support on Juniper Devices—Prime Network Version 3.10

Attribute	E-Series	JCS	M-Series	MX-Series	NetScreen-Series	T-Series
IMO Name—IMpls						
Distribution Protocol	Y		Y	Y		Y
Outer and Inner Labels	Y		Y			Y
Traffic Engineering Properties				Y		
IMO Name—ILse						
MPLS Table	Y		Y	Y		Y
MPLS Aggregate Table			Y	Y		Y
MPLS Tunnel Segments			Y			Y
LDP Service			Y	Y		Y
Logical Sons	Y			Y		
IMO Name—ILdpService						
Local Identification Status			Y	Y		Y
LDP Peers			Y	Y		Y
IMO Name—ILdpPeer						
Peer Identification			Y	Y		Y
Transport Address			Y	Y		Y
Distribution Method			Y	Y		Y
Protocol Type			Y	Y		Y
Session Status			Y	Y		Y
Hold Time			Y	Y		Y
Keep Alive Time			Y	Y		Y
Peer Discovery Sources			Y	Y		Y
IMO Name—ILdpDiscoverySource						
Interface Name			Y			Y
Source Address			Y			Y
Type			Y			Y
IMO Name—IMplsEntry						
Incoming Label			Y	Y		Y
Outgoing Interface and Label			Y	Y		Y
Switching Action			Y	Y		Y
Next Hop IP Address			Y	Y		Y
Destination Mask			Y	Y		Y

Table 8-33 MPLS Attribute Support on Juniper Devices—Prime Network Version 3.10

Attribute	E-Series	JCS	M-Series	MX-Series	NetScreen-Series	T-Series
Destination address			Y	Y		Y
IMO Name—IMplsAggregateEntry						
Virtual Routing Entity			Y	Y		Y
Incoming Label			Y	Y		Y
Outgoing Interface and Label			Y	Y		Y
Switching Action			Y	Y		Y
Next Hop IP Address				Y		

MPLS-TE

The following table (Table 8-34) lists the mpls-te protocols attributes that are supported on Juniper devices in Prime Network Version 3.10 per technology:

Table 8-34 MPLS-TE Attribute Support on Juniper Devices—Prime Network Version 3.10

Attribute	E-Series	JCS	M-Series	MX-Series	NetScreen-Series	T-Series
IMO Name—IMplsTETunnel						
Destination Address				Y		
Outgoing Interface and Label				Y		
LSP Identification				Y		
Requested Bandwidth				Y		
Measured Average Burst and Peak Bandwidth				Y		
Setup and Hold Priority				Y		
Affinity Bits				Y		
Automatic Route Announcement Status				Y		
Optimization Lock Down Status				Y		
Path Option				Y		
Name				Y		

Table 8-34 MPLS-TE Attribute Support on Juniper Devices—Prime Network Version 3.10

Attribute	E-Series	JCS	M-Series	MX-Series	NetScreen-Series	T-Series
Description			Y	Y		
Administrative Status				Y		
Operational Status				Y		
IANA Type				Y		
is FRR Enabled				Y		
TunnelType				Y		
IMO Name—IMplsTEProperties						
Signaling Protocol				Y		
Available Physical and Reservable Bandwidth				Y		
Reserved Bandwidth				Y		
Administrative Weight				Y		
IMO Name—IMplsTEPropertiesAllocationEntry						
Priority Level				Y		
Allocated and Cumulative Bandwidth				Y		
IMO Name—IMplsTESegment						
Segment Type				Y		
Measured Average Burst and Peak Bandwidth				Y		
LSP Identification				Y		
Name				Y		
FRRTunnelName				Y		
FRRTunnelState				Y		
AverageBandwidth				Y		
In Interface				Y		
Out interface				Y		
In Label				Y		
Out Label				Y		
Source address				Y		
Destination address				Y		
TunnelType				Y		

VPN (VRF)

The following table (Table 8-35) lists the vpn (vrf) protocols attributes that are supported on Juniper devices in Prime Network Version 3.10 per technology:

Table 8-35 VPN (VRF) Attribute Support on Juniper Devices—Prime Network Version 3.10

Attribute	E-Series	JCS	M-Series	MX-Series	NetScreen-Series	T-Series
IMO Name—IVrf						
Virtual Routing Table	Y		Y	Y		Y
Exported Route Targets	Y		Y	Y		Y
Imported Route Targets	Y		Y	Y		Y
Route Distinguisher	Y		Y	Y		Y
ARP Entity			Y	Y		Y
Name	Y		Y	Y		Y
Logical Sons			Y	Y		Y
Description			Y	Y		Y
Import Route-Map			Y	Y		Y
Export Route-Map			Y	Y		Y
IMO Name—IVrfEntry						
Next Hop BGP Address	Y					
Incoming and Outgoing Inner Label						
Outer Label						
Destination IP Subnet	Y	Y	Y	Y		Y
Next Hop IP Address	Y	Y	Y	Y		Y
Type	Y	Y	Y	Y		Y
Routing Protocol Type	Y	Y	Y	Y		Y
Outgoing Interface Name	Y	Y	Y	Y		Y
IMO Name—IMpBgp						
BGP Identifier			Y	Y	Y	
Local Autonomous System			Y	Y	Y	
BGP Neighbors			Y	Y	Y	Y

PWE3

The following table (Table 8-36) lists the pwe3 protocols attributes that are supported on Juniper devices in Prime Network Version 3.10 per technology:

Table 8-36 PWE3 Attribute Support on Juniper Devices—Prime Network Version 3.10

Attribute	E-Series	JCS	M-Series	MX-Series	NetScreen-Series	T-Series
IMO Name—IIPTPLayer2MplsTunnel						
Local and Remote Router Addresses				Y		
Local and Remote Virtual Connection Labels				Y		
Tunnel Identification				Y		
Tunnel Status				Y		
PsuedowireType				Y		
LocalMTU				Y		
PeerStatus				Y		
SignalingProtocol				Y		

Hardware

The following table (Table 8-37) lists the hardware protocols attributes that are supported on Juniper devices in Prime Network Version 3.10 per technology:

Table 8-37 Hardware Attribute Support on Juniper Devices—Prime Network Version 3.10

Attribute	E-Series	JCS	M-Series	MX-Series	NetScreen-Series	T-Series
IMO Name—IChassis						
Description		Y	Y	Y	Y	Y
Equipment Holder Type	Y	Y	Y	Y	Y	Y
Serial Number		Y	Y	Y	Y	
IMO Name—IShelf						
Equipment Holder Type	Y					

Table 8-37 Hardware Attribute Support on Juniper Devices—Prime Network Version 3.10 (Continued)

Attribute	E-Series	JCS	M-Series	MX-Series	NetScreen-Series	T-Series
IMO Name—IModule						
Module Name	Y	Y	Y	Y	Y	Y
Module Description	Y	Y	Y	Y	Y	Y
Operational Status	Y	Y	Y	Y	Y	Y
Hardware Type & Version	Y	Y	Y	Y		Y
Operational Status Last Changed			Y	Y		
Serial Number (soft property)	Y	Y	Y	Y		Y
Configured Redundancy		Y	Y	Y		Y
Redundancy Status		Y	Y	Y	Y	Y
IMO Name—IManagedElement						
IP Address	Y	Y	Y	Y	Y	Y
Communication State	Y	Y	Y	Y	Y	Y
Investigation State	Y	Y	Y	Y	Y	Y
Element Category	Y	Y	Y	Y	Y	Y
Element Type and Key	Y	Y	Y	Y	Y	Y
Device Name	Y	Y	Y	Y	Y	Y
Device Series	Y	Y	Y	Y	Y	Y
System Name	Y	Y	Y	Y	Y	Y
System Description	Y	Y	Y	Y	Y	Y
Up Time	Y	Y	Y	Y	Y	Y
Software Version	Y	Y	Y	Y	Y	Y
Vendor Identity	Y	Y	Y	Y	Y	Y
Memory and CPU Usage		Y	Y	Y	Y	Y
Flash Device Size				Y		
Sys Contact		Y	Y	Y	Y	
Sys Location		Y	Y	Y	Y	
Serial Number		Y	Y		Y	
IMO Name—IContext						
Name	Y					
IMO Name—IBridge						
Bridge Table				Y		
Type				Y		

Table 8-37 Hardware Attribute Support on Juniper Devices—Prime Network Version 3.10 (Continued)

Attribute	E-Series	JCS	M-Series	MX-Series	NetScreen-Series	T-Series
MAC Address				Y		
Name				Y		
IMO Name—IBridgeEntry						
Destination MAC				Y		
Outgoing Interface				Y		
IMO Name—IPluggableTransceiver						
ConnectorDescription				Y		
PID				Y		
ConnectorSerialNumber				Y		
ConnectorType				Y		
PluggablePortState				Y		
PluggableType				Y		

Serial

The following table (Table 8-38) lists the serial protocols attributes that are supported on Juniper devices in Prime Network Version 3.10 per technology:

Table 8-38 Serial Attribute Support on Juniper Devices—Prime Network Version 3.10

Attribute	E-Series	JCS	M-Series	MX-Series	NetScreen-Series	T-Series
IMO Name—IPhysicalLayer						
Media Type			Y	Y		Y
Clocking Source			Y			Y
Maximum Speed	Y		Y	Y	Y	Y
Is Internal Port	Y		Y	Y		Y
Discarded and Received Input Data Counters	Y		Y	Y		Y
Dropped and Forward Output Data Counters	Y		Y	Y		Y

Table 8-38 Serial Attribute Support on Juniper Devices—Prime Network Version 3.10

Attribute	E-Series	JCS	M-Series	MX-Series	NetScreen-Series	T-Series
Administrative Status	Y		Y	Y	Y	Y
Operational Status	Y		Y	Y	Y	Y
Last Changed	Y		Y	Y		Y
IANA Type	Y		Y	Y		Y
Port Alias				Y		
Location				Y		
Sending Alarms				Y		
Connector Description				Y		
Status				Y		
Managed				Y		

Carrier Ethernet

The following table (Table 8-39) lists the carrier ethernet protocols attributes that are supported on Juniper devices in Prime Network Version 3.10 per technology:

Table 8-39 Carrier Ethernet Attribute Support on Juniper Devices—Prime Network Version 3.10

Attribute	E-Series	JCS	M-Series	MX-Series	NetScreen-Series	T-Series
IMO Name—IVsi						
vsiInstanceName				Y		
vpnId				Y		
discoveryMode				Y		
vsiMode				Y		
Operational state				Y		
Administrative state				Y		

BFD

The following table (Table 8-40) lists the bfd protocols attributes that are supported on Juniper devices in Prime Network Version 3.10 per technology:

Table 8-40 BFD Attribute Support on Juniper Devices—Prime Network Version 3.10

Attribute	E-Series	JCS	M-Series	MX-Series	NetScreen-Series	T-Series
IMO Name—IBfdSession						
SourceIp		Y	Y	Y		Y
DestinationIp		Y	Y	Y		Y
Interval		Y	Y	Y		Y
Multiplier		Y	Y	Y		Y
Protocol		Y	Y	Y		Y
State		Y	Y	Y		Y
Interface		Y	Y	Y		Y

LLDP

The following table (Table 8-41) lists the lldp protocols attributes that are supported on Juniper devices in Prime Network Version 3.10 per technology:

Table 8-41 LLDP Attribute Support on Juniper Devices—Prime Network Version 3.10

Attribute	E-Series	JCS	M-Series	MX-Series	NetScreen-Series	T-Series
IMO Name—ILLDPService						
status				Y		
lldpAdvertisementsInterval				Y		
lldpHoldTime				Y		
lldpReinitialisationDelay				Y		
localChassisID				Y		
localSystemName				Y		

Table 8-41 LLDP Attribute Support on Juniper Devices—Prime Network Version 3.10 (Continued)

Attribute	E-Series	JCS	M-Series	MX-Series	NetScreen-Series	T-Series
IMO Name—ILLDPNeighbor						
localPortName				Y		
remotePortDesc				Y		
remoteChassisId				Y		
remoteManagementIP				Y		
localPortId				Y		
remotePortId				Y		

CGN

The following table (Table 8-42) lists the cgn protocols attributes that are supported on Juniper devices in Prime Network Version 3.10 per technology:

Table 8-42 CGN Attribute Support on Juniper Devices—Prime Network Version 3.10

Attribute	E-Series	JCS	M-Series	MX-Series	NetScreen-Series	T-Series
IMO Name—ICgnService						
cgnName				Y		
IMO Name—ICgnStatsEntry						
StatName				Y		
IMO Name—ICgnServiceAddressPool						
addressPool				Y		
addressFamily				Y		

Additional Technologies

The following table (Table 8-42) lists the additional technologies protocols attributes that are supported on Juniper devices in Prime Network Version 3.10 per technology:

Table 8-43 Additional Technologies Attribute Support on Juniper Devices—Prime Network Version 3.10

Attribute	E-Series	JCS	M-Series	MX-Series	NetScreen-Series	T-Series
IMO Name—POS						
POS	Y					