



CHAPTER 7

Support Information for Juniper Devices

This chapter contains support information for Virtual Network Elements (VNEs) that manage Juniper devices in Cisco ANA Version 3.7.2 and 3.7.3. For more information about the objects and attributes described in this chapter, see the [Cisco Active Network Abstraction 3.7.2 Reference Guide](#).

This chapter contains the following topics:

- [Juniper E-Series ERX Edge Routing Switches, page 7-1](#)
- [Juniper JCS Control System, page 7-4](#)
- [Juniper M-Series Multiservice Edge Routers, page 7-6](#)
- [Juniper MX-Series Ethernet Service Routers, page 7-12](#)
- [Juniper Netscreen Security Firewall/VPN Device, page 7-17](#)
- [Juniper T-Series Core Platforms, page 7-19](#)
- [Supported Technologies on Juniper Devices, page 7-23](#)

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 Cisco ANA Version 3.7.2 and 3.7.3, see the [Juniper E-Series ERX Edge Routing Switches](#)):

This section contains the following topics:

- [Juniper E-Series—Supported Software Versions, page 7-2](#)
- [Juniper E-Series—Supported Topologies, page 7-2](#)
- [Juniper E-Series—Supported Modules, page 7-2](#)
- [Juniper E-Series—Supported Technologies, page 7-3](#)
- [Juniper E-Series—Supported Service Events, page 7-3](#)

Juniper E-Series—Supported Software Versions

Table 7-1 Supported Software Versions for Juniper E-Series—Cisco ANA Version 3.7.2 and 3.7.3

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

Juniper E-Series—Supported Topologies

Table 7-2 Supported Topologies for Juniper E-Series—Cisco ANA Version 3.7.2 and 3.7.3

Topology Type	Link Type	ANA 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 7-3 Supported Modules for Juniper E-Series—Cisco ANA Version 3.7.2 and 3.7.3

Module Name	ANA 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 7-3 *Supported Modules for Juniper E-Series—Cisco ANA Version 3.7.2 and 3.7.3*

Module Name	ANA 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 Cisco ANA Version 3.7.2 and 3.7.3:

- [IP, page 7-24](#)
- [Routing Protocols, page 7-25](#)
- [Ethernet, page 7-25](#)
- [MPLS, page 7-28](#)
- [VPN \(VRF\), page 7-30](#)
- [Hardware, page 7-31](#)
- [Serial, page 7-32](#)

Juniper E-Series—Supported Service Events

Table 7-4 *Supported Service Events for Juniper E-Series—Cisco ANA Version 3.7.2 and 3.7.3*

Event Name	ANA Version	Expedited	DP Version
Active IP Interfaces Found	3.7.2	Y	3.0
All IP Interfaces Down	3.7.2	Y	3.0
BGP process up	3.7.2	N	3.0
Card Down	3.7.2	Y	3.0
Card In	3.7.2	Y	3.0
Card Out	3.7.2	Y	3.0
Card Up	3.7.2	Y	3.0
Cloud Problem	3.7.2	N	3.0
CPU utilization exceeded upper threshold	3.7.2	N	3.0
Device Unreachable	3.7.2	N	3.0

Table 7-4 **Supported Service Events for Juniper E-Series—Cisco ANA Version 3.7.2 and 3.7.3**

Event Name	ANA Version	Expedited	DP Version
Device Unsupported	3.7.2	N	3.0
Interface status down flapping	3.7.2	Y	3.0
Interface status down flapping update	3.7.2	Y	3.0
Keepalive configured	3.7.2	N	3.0
Keepalive not configured	3.7.2	N	3.0
Layer 2 Tunnel Down	3.7.2	N	3.0
Link Down	3.7.2	N	3.0
Link up	3.7.2	N	3.0
Memory utilization exceeded upper threshold	3.7.2	Y	3.0
Module Unsupported	3.7.2	N	3.0
Port Down	3.7.2	N	3.0
Port Flapping	3.7.2	N	3.0
Rx utilization exceeded upper threshold	3.7.2	N	3.0
Tx utilization exceeded upper threshold	3.7.2	N	3.0
VPN Leak	3.7.2	N	3.0

Juniper JCS Control System

This section includes the following information about Juniper JCS Control System devices (for information on the NE types supported in Cisco ANA Version 3.7.2/3.7.3, see the [Juniper JCS Control System](#)):

This section contains the following topics:

- [Juniper JCS—Supported Software Versions, page 7-5](#)
- [Juniper JCS—Supported Topologies, page 7-5](#)
- [Juniper JCS—Supported Modules, page 7-5](#)
- [Juniper JCS—Supported Technologies, page 7-5](#)
- [Juniper JCS—Supported Service Events, page 7-6](#)

Juniper JCS—Supported Software Versions

Table 7-5 *Supported Software Versions for Juniper JCS—Cisco ANA Version 3.7.2/3.7.3*

Software Version	ANA 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

Juniper JCS—Supported Topologies

Table 7-6 *Supported Topologies for Juniper JCS—Cisco ANA Version 3.7.2/3.7.3*

Topology Type	Link Type	ANA 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 JCS—Supported Modules

Table 7-7 *Supported Modules for Juniper JCS—Cisco ANA Version 3.7.2/3.7.3*

Module Name	ANA Version	Module Description	DP Version
Mid Plane	3.7.2/3.7.3 ¹	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

¹The midplane is a panel located in the center of the chassis, running from side to side and forming the rear of the PIC card cage. All router components plug directly into the midplane. This means the midplane is just a holder for the PICs inside the chassis. If the midplane for Juniper VNEs in ANA is not supported, a "device unsupported" alarm is generated. The midplane for Juniper VNEs will not be displayed in the Network Vision GUI.

Juniper JCS—Supported Technologies

The following technologies are supported by the Juniper JCS in Cisco ANA Version 3.7.2/3.7.3:

- [IP, page 7-24](#)
- [Routing Protocols, page 7-25](#)

- [Ethernet, page 7-25](#)
- [Hardware, page 7-31](#)
- [BFD, page 7-34](#)

Juniper JCS—Supported Service Events

Table 7-8 *Supported Service Events for Juniper JCS—Cisco ANA Version 3.7.2/3.7.3*

Event Name	ANA Version	Expedited	DP Version
Active IP Interfaces Found	3.7.2/3.7.3	Y	8.0
All IP Interfaces Down	3.7.2/3.7.3	Y	8.0
Link Down	3.7.2/3.7.3	N	8.0
Link Up	3.7.2/3.7.3	N	8.0

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 Cisco ANA Version 3.7.2 and 3.7.3, see the [Juniper M-Series Multiservice Edge Routers](#)):

This section contains the following topics:

- [Juniper M-Series—Supported Software Versions, page 7-6](#)
- [Juniper M-Series—Supported Topologies, page 7-7](#)
- [Juniper M-Series—Supported Modules, page 7-7](#)
- [Juniper M-Series—Supported Technologies, page 7-11](#)
- [Juniper M-Series—Supported Service Events, page 7-11](#)

Juniper M-Series—Supported Software Versions

Table 7-9 *Supported Software Versions for Juniper M-Series—Cisco ANA Version 3.7.2 and 3.7.3*

Software Version	ANA Version	DP Version
7.1R2.2	3.7.2	1.0

Table 7-9 *Supported Software Versions for Juniper M-Series—Cisco ANA Version 3.7.2 and 3.7.3 (Continued)*

Software Version	ANA Version	DP Version
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

Juniper M-Series—Supported Topologies

Table 7-10 *Supported Topologies for Juniper M-Series—Cisco ANA Version 3.7.2 and 3.7.3*

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

Juniper M-Series—Supported Modules

Table 7-11 *Supported Modules for Juniper M-Series—Cisco ANA Version 3.7.2 and 3.7.3*

Module Name	ANA 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
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

Table 7-11 Supported Modules for Juniper M-Series—Cisco ANA Version 3.7.2 and 3.7.3

Module Name	ANA Version	Module Description	DP Version
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 ¹	M10i Midplane	1.0
M320-FPC2	3.7.2	Juniper Networks Flexible PIC Concentrator FPC2 - expansion module	1.0
M320MIDPLANE	3.7.2 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
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

Table 7-11 Supported Modules for Juniper M-Series—Cisco ANA Version 3.7.2 and 3.7.3

Module Name	ANA Version	Module Description	DP Version
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
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

Table 7-11 **Supported Modules for Juniper M-Series—Cisco ANA Version 3.7.2 and 3.7.3**

Module Name	ANA Version	Module Description	DP Version
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
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	3.7.2/3.7.3	2 Port Channelized STM PIC	7.0

^{1,2}The midplane is a panel located in the center of the chassis, running from side to side and forming the rear of the PIC card cage. All router components plug directly into the midplane. This means the midplane is just a holder for the PICs inside the chassis. If the midplane for Juniper VNEs in ANA is not supported, a "device unsupported" alarm is generated. The midplane for Juniper VNEs will not be displayed in the Network Vision GUI.

Juniper M-Series—Supported Technologies

The following technologies are supported by the Juniper M-Series in Cisco ANA Version 3.7.2 and 3.7.3:

- [IP, page 7-24](#)
- [Routing Protocols, page 7-25](#)
- [Ethernet, page 7-25](#)
- [ATM, page 7-26](#)
- [Frame Relay, page 7-27](#)
- [PPP, page 7-28](#)
- [HDLC, page 7-28](#)
- [MPLS, page 7-28](#)
- [VPN \(VRF\), page 7-30](#)
- [Hardware, page 7-31](#)
- [Serial, page 7-32](#)

Juniper M-Series—Supported Service Events

Table 7-12 Supported Service Events for Juniper M-Series—Cisco ANA Version 3.7.2 and 3.7.3

Event Name	ANA Version	Expedited	DP Version
Active IP Interfaces Found	3.7.2	Y	1.0
All IP Interfaces Down	3.7.2	Y	1.0
BGP process up	3.7.2	N	1.0
Card Down	3.7.2	Y	1.0
Card In	3.7.2	Y	1.0
Card Out	3.7.2	Y	1.0
Card Up	3.7.2	Y	1.0
Cloud Problem	3.7.2	N	1.0
CPU utilization exceeded upper threshold	3.7.2	N	1.0
Device Unreachable	3.7.2	N	1.0
Device Unsupported	3.7.2	N	1.0
Interface status down flapping	3.7.2	Y	1.0

Table 7-12 *Supported Service Events for Juniper M-Series—Cisco ANA Version 3.7.2 and 3.7.3 (Continued)*

Event Name	ANA Version	Expedited	DP Version
Interface status down flapping update	3.7.2	Y	1.0
Keepalive configured	3.7.2	N	1.0
Keepalive not configured	3.7.2	N	1.0
Layer 2 Tunnel Down	3.7.2	N	1.0
Link Down	3.7.2	N	1.0
Link up	3.7.2	N	1.0
Memory utilization exceeded upper threshold	3.7.2	N	1.0
Module Unsupported	3.7.2	N	1.0
Port Down	3.7.2	N	1.0
Port Flapping	3.7.2	N	1.0
Rx utilization exceeded upper threshold	3.7.2	N	1.0
Tx utilization exceeded upper threshold	3.7.2	N	1.0
VPN Leak	3.7.2	N	1.0

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 Cisco ANA Version 3.7.2 and 3.7.3, see the [Juniper MX-Series Ethernet Service Routers](#)):

This section contains the following topics:

- [Juniper MX-Series—Supported Software Versions, page 7-13](#)
- [Juniper MX-Series—Supported Topologies, page 7-13](#)
- [Juniper MX-Series—Supported Modules, page 7-13](#)
- [Juniper MX-Series—Supported Technologies, page 7-14](#)
- [Juniper MX-Series—Supported Service Events, page 7-14](#)

Juniper MX-Series—Supported Software Versions

Table 7-13 *Supported Software Versions for Juniper MX-Series—Cisco ANA Version 3.7.2 and 3.7.3*

Software Version	ANA Version	DP Version
9.2S2	3.7.2	2.0

Table 7-13 *Supported Software Versions for Juniper MX-Series—Cisco ANA Version 3.7.2 and 3.7.3 (Continued)*

Software Version	ANA Version	DP Version
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

Juniper MX-Series—Supported Topologies

Table 7-14 *Supported Topologies for Juniper MX-Series—Cisco ANA Version 3.7.2 and 3.7.3*

Topology Type	Link Type	ANA 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 7-15 *Supported Modules for Juniper MX-Series—Cisco ANA Version 3.7.2 and 3.7.3*

Module Name	ANA 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
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

Table 7-15 *Supported Modules for Juniper MX-Series—Cisco ANA Version 3.7.2 and 3.7.3*

Module Name	ANA Version	Module Description	DP Version
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

Juniper MX-Series—Supported Technologies

The following technologies are supported by the Juniper MX-Series in Cisco ANA Version 3.7.2 and 3.7.3:

- [IP, page 7-24](#)
- [Routing Protocols, page 7-25](#)
- [Ethernet, page 7-25](#)
- [ATM, page 7-26](#)
- [Frame Relay, page 7-27](#)
- [MPLS, page 7-28](#)
- [VPN \(VRF\), page 7-30](#)
- [Hardware, page 7-31](#)
- [Serial, page 7-32](#)
- [Carrier Ethernet, page 7-33](#)
- [BFD, page 7-34](#)
- [LLDP, page 7-34](#)

Juniper MX-Series—Supported Service Events

Table 7-16 *Supported Service Events for Juniper MX-Series—Cisco ANA Version 3.7.2 and 3.7.3*

Event Name	ANA Version	Expedited	DP Version
Primary HSRP Interface Active/Inactive	3.7.2	N	2.0
Secondary HSRP Interface Active/Inactive	3.7.2	N	2.0
All IP Interfaces Down / Active IP Interfaces Found	3.7.2	N	2.0
Interface Status Down/Up	3.7.2	N	2.0
Card In/Out	3.7.2	N	2.0

Table 7-16 *Supported Service Events for Juniper MX-Series—Cisco ANA Version 3.7.2 and 3.7.3 (Continued)*

Event Name	ANA Version	Expedited	DP Version
Link Down/Up	3.7.2	N	2.0
Device Unreachable	3.7.2	N	2.0
CPU Over Utilized	3.7.2	N	2.0
Memory Over Utilized	3.7.2	N	2.0
Device Unsupported	3.7.2	N	2.0
Discard Packets	3.7.2	N	2.0
Dropped Packets	3.7.2	N	2.0
Module Unsupported	3.7.2	N	2.0
Port Flapping	3.7.2	N	2.0
Port Down	3.7.2	N	2.0
Rx Over Utilized	3.7.2	N	2.0
Tx Over Utilized	3.7.2	N	2.0
VPN Leak	3.7.2	N	2.0
Cloud Problem	3.7.2	N	2.0
Broken LSP Discovered	3.7.2	N	2.0
MPLS Black Hole	3.7.2	N	2.0
Layer 2 Tunnel Down	3.7.2	N	2.0
MPLS TE Tunnel Down/Flapping	3.7.2	N	2.0
BGP Neighbor Down	3.7.2	N	2.0
Card Up/Down	3.7.2	N	2.0
VSI Up/Down	3.7.2	N	2.0
VSI Admin Down	3.7.2	N	2.0
EFP Up/Down	3.7.2	N	2.0
EFP Admin Down	3.7.2	N	2.0
EFP down due to error disabled	3.7.2	N	2.0
Vlan Tagged Interface Up/Down	3.7.2	N	2.0
Vlan Tagged Interface AdminDown	3.7.2	N	2.0
DS1 Path Port Down	3.7.2	N	2.0
DS1 Path Port Up	3.7.2	N	2.0
DS1 Path link down due to Admin down	3.7.2	N	2.0
DS1 Path link down due to Oper down	3.7.2	N	2.0
DS1 Path link Up	3.7.2	N	2.0
Sonet Path Port Down	3.7.2	N	2.0
Sonet Path Port Up	3.7.2	N	2.0

Table 7-16 **Supported Service Events for Juniper MX-Series—Cisco ANA Version 3.7.2 and 3.7.3 (Continued)**

Event Name	ANA Version	Expedited	DP Version
Sonet Path link down due to Admin down	3.7.2	N	2.0
Sonet Path link down due to Oper down	3.7.2	N	2.0
Sonet Path link Up	3.7.2	N	2.0
MLPPP down due to Admin down	3.7.2	N	2.0
MLPPP down due to Oper down	3.7.2	N	2.0
MLPPP Up	3.7.2	N	2.0
Low priority IMA Down	3.7.2	N	2.0
Medium priority IMA Down	3.7.2	N	2.0
High priority IMA Down	3.7.2	N	2.0
IMA Oper down	3.7.2	N	2.0
IMA Admin down	3.7.2	N	2.0
IMA Up	3.7.2	N	2.0
Keepalive set	3.7.2	N	2.0
Keepalive not set	3.7.2	N	2.0
DS0 Bundle Admin down	3.7.2	N	2.0
DS0 Bundle Oper down	3.7.2	N	2.0
DS0 Bundle Up	3.7.2	N	2.0
CFM Domain Fault	3.7.2	N	2.0
CGN statistics dropsResourceDepletionIn2Out higher threshold exceeded	3.7.2	N	2.0
CGN statistics dropsSystemLimitIn2Out higher threshold exceeded	3.7.2	N	2.0
CGN statistics dropsPortLimitIn2Out higher threshold exceeded	3.7.2	N	2.0
CGN statistics fwdOut2In higher threshold exceeded	3.7.2	N	2.0
CGN statistics fwdIn2Out higher threshold exceeded	3.7.2	N	2.0
LDP neighbor down	3.7.2	N	2.0
LDP neighbor up	3.7.2	N	2.0
MPLS interface added	3.7.2	N	2.0
MPLS interface removed	3.7.2	N	2.0

Table 7-16 *Supported Service Events for Juniper MX-Series—Cisco ANA Version 3.7.2 and 3.7.3 (Continued)*

Event Name	ANA Version	Expedited	DP Version
MPLS TE FRR State Changed to Active	3.7.2	N	2.0
MPLS TE FRR State Changed to Ready	3.7.2	N	2.0
MPLS-TE tunnel reoptimized	3.7.2	N	2.0
MPLS-TE tunnel rerouted	3.7.2	N	2.0
MPLS-TE tunnel up	3.7.2	N	2.0
OSPFneighbor down	3.7.2	N	2.0
OSPFneighbor up	3.7.2	N	2.0

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 Cisco ANA Version 3.7.2/3.7.3, see the [Juniper Netscreen Security Firewall/VPN Device](#)):

This section contains the following topics:

- [Juniper NetScreen Security Firewall/VPN Device—Supported Software Versions, page 7-17](#)
- [Juniper NetScreen Security Firewall/VPN Device—Supported Topologies, page 7-18](#)
- [Juniper NetScreen Security Firewall/VPN Device—Supported Modules, page 7-18](#)
- [Juniper NetScreen Security Firewall/VPN Device—Supported Technologies, page 7-18](#)
- [Juniper NetScreen Security Firewall/VPN Device—Supported Service Events, page 7-19](#)

Juniper NetScreen Security Firewall/VPN Device—Supported Software Versions

Table 7-17 *Supported Software Versions for Juniper NetScreen Security Firewall/VPN Device—Cisco ANA Version 3.7.2/3.7.3*

Software Version	ANA 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 7-18 *Supported Topologies for Juniper NetScreen Security Firewall/VPN Device — Cisco ANA Version 3.7.2/3.7.3*

Topology Type	Link Type	ANA 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 7-19 *Supported Modules for Juniper NetScreen Security Firewall/VPN Device — Cisco ANA Version 3.7.2/3.7.3*

Module Name	ANA 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 Cisco ANA Version 3.7.2/3.7.3:

- [IP, page 7-24](#)
- [Ethernet, page 7-25](#)
- [Hardware, page 7-31](#)
- [Serial, page 7-32](#)

Juniper NetScreen Security Firewall/VPN Device—Supported Service Events

Table 7-20 *Supported Service Events for Juniper NetScreen Security Firewall/VPN Device—Cisco ANA Version 3.7.2/3.7.3*

Event Name	ANA Version	Expedited	DP Version
All IP Interfaces Down / Active IP Interfaces Found	3.7.2/3.7.3	N	6.0
Interface Status Down/Up	3.7.2/3.7.3	N	6.0
Card In/Out	3.7.2/3.7.3	N	6.0
Link Down/Up	3.7.2/3.7.3	N	6.0
Device Unreachable	3.7.2/3.7.3	N	6.0
Device Unsupported	3.7.2/3.7.3	N	6.0
Module Unsupported	3.7.2/3.7.3	N	6.0
Port Down	3.7.2/3.7.3	N	6.0
Card Up/Down	3.7.2/3.7.3	N	6.0

Juniper T-Series Core Platforms

This section includes the following information about Juniper T-Series devices (for information on the NE types supported in Cisco ANA Version 3.7.2 and 3.7.3, see the [Juniper T-Series Core Platforms](#)):

This section contains the following topics:

- [Juniper T-Series—Supported Software Versions, page 7-20](#)
- [Juniper T-Series—Supported Topologies, page 7-20](#)
- [Juniper T-Series—Supported Modules, page 7-20](#)
- [Juniper T-Series—Supported Technologies, page 7-22](#)
- [Juniper T-Series—Supported Service Events, page 7-22](#)

Juniper T-Series—Supported Software Versions

Table 7-21 Supported Software Versions for Juniper T-Series—Cisco ANA Version 3.7.2 and 3.7.3

Software Version	ANA 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 7-22 Supported Topologies for Juniper T-Series—Cisco ANA Version 3.7.2 and 3.7.3

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

Juniper T-Series—Supported Modules

Table 7-23 Supported Modules for Juniper T-Series—Cisco ANA Version 3.7.2 and 3.7.3

Module Name	ANA 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
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

Table 7-23 Supported Modules for Juniper T-Series—Cisco ANA Version 3.7.2 and 3.7.3

Module Name	ANA Version	Module Description	DP Version
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
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

Table 7-23 Supported Modules for Juniper T-Series—Cisco ANA Version 3.7.2 and 3.7.3

Module Name	ANA Version	Module Description	DP Version
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 Cisco ANA Version 3.7.2 and 3.7.3:

- [IP, page 7-24](#)
- [Routing Protocols, page 7-25](#)
- [Ethernet, page 7-25](#)
- [ATM, page 7-26](#)
- [Frame Relay, page 7-27](#)
- [PPP, page 7-28](#)
- [HDLC, page 7-28](#)
- [MPLS, page 7-28](#)
- [VPN \(VRF\), page 7-30](#)
- [Hardware, page 7-31](#)
- [Serial, page 7-32](#)

Juniper T-Series—Supported Service Events

Table 7-24 Supported Service Events for Juniper T-Series—Cisco ANA Version 3.7.2 and 3.7.3

Event Name	ANA Version	Expedited	DP Version
All IP Interfaces Down / Active IP Interfaces Found	3.7.2	Y	1.0
Interface Status Down/Up	3.7.2	Y	1.0
Card In/Out	3.7.2	Y	1.0
Link Down/Up	3.7.2	Y	1.0
Device Unreachable	3.7.2	N	1.0
CPU Over Utilized	3.7.2	N	1.0
Memory Over Utilized	3.7.2	N	1.0
Device Unsupported	3.7.2	N	1.0
Discard Packets	3.7.2	N	1.0
Dropped Packets	3.7.2	N	1.0

Table 7-24 **Supported Service Events for Juniper T-Series—Cisco ANA Version 3.7.2 and 3.7.3**

Event Name	ANA Version	Expedited	DP Version
Module Unsupported	3.7.2	Y	1.0
Port Flapping	3.7.2	N	1.0
Port Down	3.7.2	Y	1.0
Rx Over Utilized	3.7.2	N	1.0
Tx Over Utilized	3.7.2	N	1.0
VPN Leak	3.7.2	N	1.0
BGP Neighbor Down	3.7.2	N	1.0
Card Up/Down	3.7.2	Y	1.0

Supported Technologies on Juniper Devices

The following sections list the objects and attributes that are supported on Juniper devices in Cisco ANA Version 3.7.2 and 3.7.3 per technology:

This section contains the following topics:

- [IP, page 7-24](#)
- [Routing Protocols, page 7-25](#)
- [Ethernet, page 7-25](#)
- [ATM, page 7-26](#)
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- [Serial, page 7-32](#)
- [Carrier Ethernet, page 7-33](#)
- [BFD, page 7-34](#)
- [LLDP, page 7-34](#)

IP

Table 7-25 IP Attribute Support on Juniper Devices—Cisco ANA Version 3.7.2 and 3.7.3

Attribute	E-Series	JCS	M-Series	MX-Series	NetScreen-Series	T-Series
IMO Name—IPIInterface						
IP Address	Y	Y	Y	Y	Y	Y
Subnetwork Mask	Y	Y	Y	Y	Y	Y
IP Interface Addresses Array			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
Name	Y	Y	Y	Y	Y	Y
Logical Sons	Y	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
IMO Name—IARPEntity						
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

Table 7-26 Routing Protocols Attribute Support on Juniper Devices—Cisco ANA Version 3.7.2 and 3.7.3

Attribute	E-Series	JCS	M-Series	MX-Series	NetScreen-Series	T-Series
IM0 Name—IBgpNeighborEntry						
Remote Identifier		Y	Y	Y		Y
Neighbor Type			Y			Y
Remote Address			Y	Y		Y
Remote Autonomous System			Y	Y		Y
Peer State			Y	Y		Y
Hold Time			Y	Y		Y
Keep Alive Time			Y	Y		Y
IM0 Name—I0spfEntry						
Area Identifier			Y	Y		Y
IP Address			Y	Y		Y
Type			Y	Y		Y
Administrative Status			Y	Y		Y
Ospf Entry State			Y	Y		Y

Ethernet

Table 7-27 Ethernet Attribute Support on Juniper Devices—Cisco ANA Version 3.7.2 and 3.7.3

Attribute	E-Series	JCS	M-Series	MX-Series	NetScreen-Series	T-Series
IM0 Name—IEthernet						
MAC Address	Y	Y	Y	Y	Y	Y
Duplex Mode				Y		
Output Flow Control				Y		
Input Flow Control				Y		
IANA Type				Y		

Table 7-27 Ethernet Attribute Support on Juniper Devices—Cisco ANA Version 3.7.2 and 3.7.3

Attribute	E-Series	JCS	M-Series	MX-Series	NetScreen-Series	T-Series
Port Type				Y		
isElmiEnabled		Y		Y	Y	
IMO Name—IVlanEncapMux						
IANA Type		Y	Y			Y
IMO Name—IIEEE802						
VLAN		Y	Y			Y
IANA Type		Y	Y			Y

ATM

Table 7-28 ATM Attribute Support on Juniper Devices—Cisco ANA Version 3.7.2 and 3.7.3

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

Table 7-28 ATM Attribute Support on Juniper Devices—Cisco ANA Version 3.7.2 and 3.7.3

Attribute	E-Series	JCS	M-Series	MX-Series	NetScreen-Series	T-Series
Operational Status			Y			Y

Frame Relay

Table 7-29 Frame Relay Attribute Support on Juniper Devices—Cisco ANA Version 3.7.2 and 3.7.3

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

Table 7-30 PPP Attribute Support on Juniper Devices—Cisco ANA Version 3.7.2 and 3.7.3

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

HDLC

Table 7-31 HDLC Attribute Support on Juniper Devices—Cisco ANA Version 3.7.2 and 3.7.3

Attribute	E-Series	JCS	M-Series	MX-Series	NetScreen-Series	T-Series
IMO Name—lencapsulation (HDLC/PPP)						
Virtual Connection			Y			Y

MPLS

Table 7-32 MPLS Attribute Support on Juniper Devices—Cisco ANA Version 3.7.2 and 3.7.3

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

Table 7-32 MPLS Attribute Support on Juniper Devices—Cisco ANA Version 3.7.2 and 3.7.3

Attribute	E-Series	JCS	M-Series	MX-Series	NetScreen-Series	T-Series
MPLS Tunnel Segments			Y	Y		Y
LDP Service			Y	Y		Y
Logical Sops	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
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

VPN (VRF)

Table 7-33 VPN (VRF) Attribute Support on Juniper Devices—Cisco ANA Version 3.7.2 and 3.7.3

Attribute	E-Series	JCS	M-Series	MX-Series	NetScreen-Series	T-Series
IMO Name—IVrf						
Virtual Routing Table	Y		Y			Y
Exported Route Targets	Y		Y			Y
Imported Route Targets	Y		Y			Y
Route Distinguisher	Y		Y			Y
ARP Entity			Y			Y
Name	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
Next Hop IP Address	Y		Y			Y
Type	Y		Y			Y
Routing Protocol Type	Y		Y			Y
Outgoing Interface Name	Y		Y			Y
IMO Name—IMpBgp						
BGP Identifier				Y	Y	
Local Autonomous System				Y	Y	
BGP Neighbors			Y	Y	Y	Y

Hardware

Table 7-34 Hardware Attribute Support on Juniper Devices—Cisco ANA Version 3.7.2 and 3.7.3

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	
IMO Name—IShelf						
Equipment Holder Type	Y	Y				
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		
Serial Number (soft property)	Y	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
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
Flash Device Size				Y		Y
Processor DRAM				Y		Y
Sys Contact		Y		Y	Y	

Table 7-34 Hardware Attribute Support on Juniper Devices—Cisco ANA Version 3.7.2 and 3.7.3 (Continued)

Attribute	E-Series	JCS	M-Series	MX-Series	NetScreen-Series	T-Series
Sys Location		Y		Y	Y	
IMO Name—IContext						
Name	Y					
IMO Name—IBridge						
Bridge Table				Y		
Type				Y		
MAC Address				Y		
IP Interface				Y		
Name				Y		
Logical Sons				Y		
Vlan Type				Y		
IMO Name—IBridgeEntry						
Destination MAC				Y		
Outgoing Interface				Y		

Serial

Table 7-35 Serial Attribute Support on Juniper Devices—Cisco ANA Version 3.7.2 and 3.7.3

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
Is Internal Port	Y		Y	Y		Y
Discarded and Received Input Data Counters	Y		Y	Y		Y

Table 7-35 Serial Attribute Support on Juniper Devices—Cisco ANA Version 3.7.2 and 3.7.3

Attribute	E-Series	JCS	M-Series	MX-Series	NetScreen-Series	T-Series
Dropped and Forward Output Data Counters	Y		Y	Y		Y
Administrative Status	Y		Y	Y		Y
Operational Status	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

Table 7-36 Carrier Ethernet Attribute Support on Juniper Devices—Cisco ANA Version 3.7.2 and 3.7.3

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

Table 7-37 BFD Attribute Support on Juniper Devices—Cisco ANA Version 3.7.2 and 3.7.3

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

Table 7-38 LLDP Attribute Support on Juniper Devices—Cisco ANA Version 3.7.2 and 3.7.3

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		
IMO Name—ILLDPNeighbor						
LocalPortName				Y		
RemotePortDesc				Y		
RemoteChassisId				Y		

Table 7-38 *LLDP Attribute Support on Juniper Devices—Cisco ANA Version 3.7.2 and 3.7.3*

Attribute	E-Series	JCS	M-Series	MX-Series	NetScreen-Series	T-Series
RemoteManagementIP				Y		
LocalPortId				Y		
RemotePortId				Y		
RemoteSystemName				Y		

