CHAPTER 8

Support Information for Juniper Devices

This chapter contains support information for Virtual Network Elements (VNEs) that manage Juniper devices in Cisco ANA 3.6.5, and contains the following topics:

- Juniper M-Series Multiservice Edge Routers, page 8-1
- Juniper T-Series Core Platforms, page 8-6
- Supported Technologies on Juniper Devices, page 8-9

Note For more information about the objects and attributes described in this chapter, see the *Cisco Active Network Abstraction 3.6.5 Technology Support and Information Model Reference Manual*.

Juniper M-Series Multiservice Edge Routers

This section includes the following information about Juniper M-Series devices:

- Juniper M-Series—Supported Software Versions, page 8-2
- Juniper M-Series—Supported Topologies, page 8-2
- Juniper M-Series—Supported Modules, page 8-2
- Juniper M-Series—Supported Technologies, page 8-5
- Juniper M-Series—Supported Service Events, page 8-5

Note For information about which NE types are supported in Cisco ANA 3.6.5, see Juniper M-Series Multiservice Edge Routers.

Juniper M-Series—Supported Software Versions

Table 8-1 Supported Software Versions for Juniper M-Series—Cisco ANA 3.6.5

Version Name	ANA Version	Certification Level
7.1R2.2	3.6.1	S
7.6 R3.6	3.6.1	S
7.6 R4.2	3.6.1	S
7.6 R4.3	3.6.1	S
8.1R2.4	3.6.1	S
8.2 R3.5	3.6.1	S
8.2R3.6	3.6.1	S

Note Software versions marked with an asterisk (representing a wildcard) are supported by Cisco ANA 3.6.5. Specific software versions that have been tested and verified are listed individually and marked as V.

Juniper M-Series—Supported Topologies

Table 8-2 Supported Topologies for Juniper M-Series—Cisco ANA 3.6.5

Topology Type	Link Type	ANA Version
Ethernet	Ethernet	3.6.1

Juniper M-Series—Supported Modules

Table 8-3 Supported Modules for Juniper M-Series—Cisco ANA 3.6.5

Module Name	ANA Version	Module Description	Certification Level
PEM	3.6.1	AC/DC Power Supply	S
TOP FAN	3.6.1	Fan Module	S
FPC: M320 FPC TYPE 1	3.6.1	Flexible PIC Concentrators	S
PIC: ADAPTIVE SERVICES-II	3.6.1	Physical Interface Card	S
PIC: 1X STM-16 SDH, SMSR	3.6.1	1 Port STM16 PIC with SFP	S
PIC: 1X 10GE(LAN/WAN) IQ2	3.6.1	1Port 10-Gigabit Ethernet IQ2 PIC with XFP	S
ROUTING ENGINE 0	3.6.1	Routing Engine	S
FPM GBUS	3.6.1	Fuse Module	S
CB	3.6.1	Control Board	S

Table 8-3 Supported Modules for Juniper M-Series—Cisco ANA 3.6.5 (Continued)

Module Name	ANA Version	Module Description	Certification Level
CIP	3.6.1	Connector Interface Pannel	S
SIB	3.6.1	Switch Interface Board	S
PIC: 1X CHSTM1 IQ SDH, SMIR	3.6.1	1 Port Channelized STM1 IQ PIC	S
PIC: 10X CHE1 IQ	3.6.1	10 Port Channelized E1 IQ PIC	S
PIC: 1X OC-48 SONET SFP	3.6.0	1 Port SONET/SDH OC48c/STM16 PIC with SFP	S
PIC: 1X TUNNEL	3.6.0	Tunnel Services PIC	S
PIC: 1X OC-12 SONET, SMIR	3.6.0	1 Port SONET/SDH OC12c/STM4 PIC	S
PIC: 1X G/E, 1000 BASE	3.6.0	1 Port Gigabit Ethernet PIC with SFP	S
PIC: 4X E3 IQ	3.6.0	4 Port E3 IQ PIC	S
PIC: 1X G/E IQ, 1000 BASE	3.6.0	1 Port Gigabit Ethernet IQ PIC with SFP	S
PIC: 4X STM-1 SDH, SMIR	3.6.0	4 Port SONET/SDH OC3c/STM1 PIC	S
PIC: 4X CHDS3 IQ	3.6.0	4 Port Channelized DS3 IQ PIC	S
PIC: 4X F/E, 100 BASE-TX	3.6.0	4 100Base-TX ports Fast Ethernet PICs	S
PIC: 1X G/E, 1000 BASE-SX	3.6.0	1 Port Gigabit Ethernet IQ PIC with SFP	S
PIC: 2X T3	3.6.0	2 Port T3 PIC	S
CFEB INTERNET PROCESSOR II	3.6.0	Fuse Module	S
M10I MIDPLANE[1]	3.6.1	M10i Midplane	S
M320MIDPLANE[1]	3.6.1	M320 Midplane	S
PIC: 1X STM-4 SDH, MM	3.6.1	1 Port SONET/SDH OC12c/STM4 PIC	S
PIC: 4X STM-4 SDH, SMIR	3.6.1	4 Port SONET/SDH OC12c/STM4 PIC	S
PIC: 2X OC-3 ATM-II IQ, SMIR	3.6.1	2 Port ATM2 OC3/STM1 IQ PIC	S
M10I HCM	3.6.1	M10i High-Availability Chassis Manager	S
PC-1XGE-XENPAC	3.6.2	1 PORT 10 GIGABIT ENET PIC M320,T320,T640	S
XENPAK-1XGE-LR	3.6.2	Juniper Networks transceiver module	S
PB-2GE-SFP-QPP	3.6.2	2-Port Gigabit Ethernet Services PIC with QPP	S
MEM-FPC-512-S	3.6.2	Optional FPC Memory Upgrade	S
PB-4CHDS3-QPP	3.6.2	4-Port Channelized DS3 to DS0 Services PIC with QPP, BNC	S
PB-2OC3-ATM2-SMIR	3.6.2	2-PORT OC-3/STM1 ATM SERVICES PIC, SINGLE MODE, IR (WITH DIFF. SERV)	S
PB-1GE-SFP-QPP	3.6.2	1 PORT GIGABIT ETHERNET IQ PIC (USES SFP OPTICS MODULES - SEE INTERFACE ACCESSORIES SECTION)	S
PB-2GE-SFP-QPP	3.6.2	2-Port Gigabit Ethernet IQ PIC (Uses SFP Optics Modules	S

Table 8-3 Supported Modules for Juniper M-Series—Cisco ANA 3.6.5 (Continued)

Module Name	ANA Version	Module Description	Certification Level
PB-4GE-SFP	3.6.2	Juniper Networks expansion module	S
PB-4OC3-SON-SMIR	3.6.2	4-Port SONET/SDH OC3/STM-1 PIC, SingleMode IR, for M160-FPC1	S
PC-8GE-TYPE3-SFP-IQ2	3.6.2	8-Port Type3 Gigabit Ethernet IQ2 PIC (Uses SFP Optics Modules - See Interface Accessories section)	S
M320-FPC2	3.6.2	Juniper Networks Flexible PIC Concentrator FPC2 - expansion module	S
PB-4GE-SFP	3.6.2	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)	S
PC-4OC3-SON-SMIR	3.6.2	4-port SONET,SDH OC3,STM1 PIC, SMIR (For use with T640 and T320 FPC2)	S
RE-1600-2048-BB	3.6.2	Routing Engine with 1600MHz panel and 2GB memory - Base Bundle	S
SFP-1GE-LX	3.6.2	Small Form Factor Pluggable 1000Base-LX Gigabit Ethernet Optic Module	S
PIC: 4X E1, RJ48	3.6.2	4-Port E1 with RJ48 connectors	S
jnxFPC	3.6.4	FPC	S
jnxCBD	3.6.4	CBD	S
jnxHM	3.6.4	HM	S
jnxPower	3.6.4	Power Supply	S
jnxFan	3.6.4	Fan	S
jnxFPB	3.6.4	FPB	S
jnxM120FEB	3.6.4	M120 FEB	S
jnxPicType3TenPortGigEther	3.6.4	PIC: 10x 1GE(LAN), 1000 BASE	S

1. 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 3.6.5:

- IP, page 8-9
- Routing Protocols, page 8-12
- Ethernet (IEEE 802.3), page 8-12
- ATM, page 8-15
- Frame Relay, page 8-18
- Point to Point, page 8-19
- MPLS, page 8-19
- VPN, page 8-21
- Physical Equipment, page 8-22
- Base Logical Components, page 8-23
- Common, page 8-24

Juniper M-Series—Supported Service Events

Table 8-4 Supported Service Events for Juniper M-Series—Cisco ANA 3.6.5

Event Name	ANA Version	Expedited
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
Discard Packets	3.6.1	N
Dropped Packets	3.6.1	N
Module Unsupported	3.6.1	Y
Port Flapping	3.6.1	N
Port Down	3.6.1	Y
Rx Over Utilized	3.6.1	N
Tx Over Utilized	3.6.1	N
VPN Leak	3.6.1	N
BGP Neighbor Down	3.6.1	N

Table 8-4 Supported Service Events for Juniper M-Series—Cisco ANA 3.6.5 (Continued)

Event Name	ANA Version	Expedited
Card Up/Down	3.6.1	Y
Adaptive Polling	3.6.1	N
BGP link down	3.6.1	Y
MPLS interface removed	3.6.1	N

Juniper T-Series Core Platforms

This section includes the following information about Juniper T-Series devices:

- Juniper T-Series—Supported Software Versions, page 8-6
- Juniper T-Series—Supported Topologies, page 8-7
- Juniper T-Series—Supported Modules, page 8-7
- Juniper T-Series—Supported Technologies, page 8-8
- Juniper T-Series—Supported Service Events, page 8-8

Note For information about which NE types are supported in Cisco ANA 3.6.5, see Juniper T-Series Core Platforms.

Juniper T-Series—Supported Software Versions

Table 8-5 Supported Software Versions for Juniper T-Series—Cisco ANA 3.6.5

Version Name	ANA Version	Certification Level
8.2R3.6	3.6.2	S
7.6R3.6	3.6.2	S
8.2R3.5	3.6.2	S

Note Software versions marked with an asterisk (representing a wildcard) are supported by Cisco ANA 3.6.5. Specific software versions that have been tested and verified are listed individually and marked as V.

Juniper T-Series—Supported Topologies

Table 8-6 Supported Topologies for Juniper T-Series—Cisco ANA 3.6.5

Topology Type	Link Type	ANA Version
Ethernet	Ethernet	3.6.1

Juniper T-Series—Supported Modules

Table 8-7 Supported Modules for Juniper T-Series—Cisco ANA 3.6.5

Module Name	ANA Version	Module Description	Certification Level
CIP-L-T640-S	3.6.1	Connector Interface Panel	S
FT-T640	3.6.1	Fan Tray - T640	S
PC-10GE-SFP	3.6.1	PIC: 10x 1GE(LAN), 1000 BASE	S
PC-1XGE-XENPAK	3.6.1	PIC, 1-Port 10GE, XENPAK Optics	S
RE-1600-2048-BB	3.6.1	Routing Engine, 1600Mhz, 2048 MB DRAM	S
SCG-T	3.6.1	T Series Sonet ClockGenerator	S
SCG-T-BB	3.6.1	T640 SONET Clock Generator Board	S
SFP-1GE-LH	3.6.1	SFP Pluggable 1000Base-LH GE Optic Module	S
SFP-1GE-LX	3.6.1	SFP Pluggable 1000Base-LX GE Optic Module	S
T640-FPC3-E2	3.6.1	FPC: E2-FPC Type 1, FPC: E-FPC Type 3	S
XENPAK-1XGE-LR	3.6.1	XENPAK Pluggable 10GBase-LR Optic Module	S
MEM-FPC-512-S	3.6.1	512MB DRAM for FPC	S
PC-8GE-TYPE3-SFP-IQ2	3.6.0	Gigabit Ethernet IQ2, 8-port SFP	S
T640-FPC3-E2	3.6.0	Enhanced II FPC3	S
RE-1600-2048-R	3.6.0	Routing Engine, 1600 Mhz, 2048 MB DRAM - redundant	S
PIC: 1X OC-192 SM SR1	3.6.1	PIC: 1x OC-192 SM SR1	S
PIC: 1X TUNNEL	3.6.1	Tunnel Services PIC	S

Juniper T-Series—Supported Technologies

The following technologies are supported by the Juniper T-Series in Cisco ANA 3.6.5:

- IP, page 8-9
- Routing Protocols, page 8-12
- Ethernet (IEEE 802.3), page 8-12
- ATM, page 8-15
- Frame Relay, page 8-18
- Point to Point, page 8-19
- MPLS, page 8-19
- VPN, page 8-21
- Physical Equipment, page 8-22
- Base Logical Components, page 8-23
- Common, page 8-24

Juniper T-Series—Supported Service Events

Table 8-8 Supported Service Events for Juniper T-Series—Cisco ANA 3.6.5

Event Name	ANA Version	Expedited
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
Discard Packets	3.6.1	N
Dropped Packets	3.6.1	N
Module Unsupported	3.6.1	Y
Port Flapping	3.6.1	N
Port Down	3.6.1	Y
Rx Over Utilized	3.6.1	N
Tx Over Utilized	3.6.1	N
VPN Leak	3.6.1	N
BGP Neighbor Down	3.6.1	N

Table 8-8 Supported Service Events for Juniper T-Series—Cisco ANA 3.6.5 (Continued)

Event Name	ANA Version	Expedited
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 Cisco ANA 3.6.5 per technology:

- IP, page 8-9
- Routing Protocols, page 8-12
- Ethernet (IEEE 802.3), page 8-12
- ATM, page 8-15
- Frame Relay, page 8-18
- Point to Point, page 8-19
- MPLS, page 8-19
- VPN, page 8-21
- Physical Equipment, page 8-22
- Base Logical Components, page 8-23
- Common, page 8-24

IP

Table 8-9 IP Attribute Support on Juniper Devices—Cisco ANA 3.6.5

Attribute	M-Series	T-Series
IMO Name—IIPInterface		
IP Address	Y	Y
Subnetwork Mask	Y	Y
IP Interface Addresses Array	Y	Y
Interface Name	Y	Y
Interface Description		
IP Interface State	Y	Y
OSPF Interface Cost		
Broadcast Address		
MTU		
Lookup Method		

Table 8-9 IP Attribute Support on Juniper Devices—Cisco ANA 3.6.5 (Continued)

Attribute	M-Series	T-Series
Address Resolution Type		
ARP Timeout		
Secured ARP		
ICMP Mask Reply		
IGMP Proxy		
HSRP Groups		
IP Multiplexing Table		
IANA Type		
Containing CTPs		
Contained CTPs		
IMO Name—IIPMuxEntry		
Termination Point		
Destination IP Subnet		
IMO Name—IRoutingEntity		
Routing Table	Y	Y
ARP Entity	Y	Y
Routing Table Changes		
Name	Y	Y
Logical Sons	Y	Y
IMO Name—IRoutingEntry		
Destination IP Subnet	Y	Y
Next Hop IP Address	Y	Y
Type	Y	Y
Routing Protocol Type	Y	Y
Outgoing Interface Name	Y	Y
IMO Name—IARPEntity		
ARP Table	Y	Y
IMO Name—IARPEntry		
IP Address	Y	Y
MAC Address	Y	Y
Port	Y	Y
Entry Type	Y	Y
IMO Name—IIPPool		
IP Address Pool Entries		
Name		

Table 8-9 IP Attribute Support on Juniper Devices—Cisco ANA 3.6.5 (Continued)

Attribute	M-Series	T-Series
Index		
IMO Name—IIPRangeBasedIPPoolEntry		
Start IP Address		
End IP Address		
Unused Addresses		
Used Addresses		
Reserved Addresses		
IMO Name—IIPSubnetBasedIPPoolEntry		
IP Subnet		
Unused Addresses		
Used Addresses		
Reserved Addresses		
IMO Name—HSRPGroupEntry		
Group Number		
Port Description		
Priority		
Coupled Router		
State		
Tracking Interfaces		
Virtual IP Address		
Virtual MAC Address		
IMO Name—ITunnelGRE		
Name		
Tunnel Destination and Source		
IP Address		
IP Interface State		
IANA Type		
Containing CTPs		
Contained CTPs		

Routing Protocols

Table 8-10 Routing Protocols Attribute Support on Juniper Devices—Cisco ANA 3.6.5

Attribute	M-Series	T-Series
IMO Name—IBgpNeighbourEntry		
Remote Identifier	Y	Y
Neighbor Type	Y	Y
Distributing Interfaces		
Remote Address	Y	Y
Remote Autonomous System	Y	Y
Status	Y	Y
Hold Time	Y	Y
Keep Alive Time	Y	Y
IMO Name—IOspfEntry		
Area Identifier	Y	Y
IP Address	Y	Y
Type	Y	Y
Administrative Status	Y	Y
Operational Status	Y	Y

Ethernet (IEEE 802.3)

Table 8-11 Ethernet (IEEE 802.3) Attribute Support on Juniper Devices—Cisco ANA 3.6.5

Attribute	M-Series	T-Series
IMO Name—ILagPortEntry		
Actor and Partner Admin Keys		
Actor and Partner Oper Keys		
Selected and Attached Aggregation Identification		
Actor Port		
Actor Port Priority		
Partner Admin and Oper Port		

Table 8-11 Ethernet (IEEE 802.3) Attribute Support on Juniper Devices—Cisco ANA 3.6.5

Attribute	M-Series	T-Series
Partner Admin and Oper Port Priority		
Actor and Partner Admin States		
Actor and Partner Oper States		
IMO Name—IEthernet		
MAC Address	Y	Y
Duplex Mode		
Output Flow Control		
Input Flow Control		
IANA Type		
Containing CTPs		
Contained CTPs		
IMO Name—IVlanInterface		
Mode		
Native VLAN Identification		
Virtual LAN Table		
IANA Type		
Containing CTPs		
Contained CTPs		
IMO Name—IVlanEncapMux		
IANA Type		
Containing CTPs		
Contained CTPs		
IMO Name—IIEEE802		
VLAN Identification		
Binding Information		
Binding Status		
IANA Type		
Containing CTPs		
Contained CTPs		
IMO Name—IStpService		
Protocol Type		
Current and Bridge Max Age		
Current and Bridge Hello Time		

Table 8-11 Ethernet (IEEE 802.3) Attribute Support on Juniper Devices—Cisco ANA 3.6.5

Attribute	M-Series	T-Series
Current and Bridge Forward Delay		
Instance Information Table		
Same as ISystemService		
IMO Name—IMstService		
Protocol Properties		
Same as IStpService		
IMO Name—IMstProperties		
Force Version		
Configuration Format, Region Name and Revision Level		
External Root Cost		
Maximum Instances		
IMO Name—IStpInstanceInfo		
Object Identification		
Identification		
Priority		
Designated Parent and Root Bridges		
Root Cost		
Is Root		
Root Port Identification		
Port Information Table		
IMO Name—IMstInstanceInfo		
Instance Identification		
Same as IStpInstanceInfo		
IMO Name—IPvstpInstanceInfo		
Protocol Type		
Current and Bridg Maximum Age		
Current and Bridge Hello Time		
Current and Bridge Forward Delay		
Same as IStpInstanceInfo		
IMO Name—IRstpInstanceInfo		
Force Version		

Table 8-11 Ethernet (IEEE 802.3) Attribute Support on Juniper Devices—Cisco ANA 3.6.5

Attribute	M-Series	T-Series
Same as IStpInstanceInfo		
IMO Name—IStpPortInfo		
Object Identification		
Priority		
State		
Path Cost		
Is Edge		
Is Point to Point		
Role		
IMO Name—IMstPortInfo		
Hello Time		
Same as IStpPortInfo		
IMO Name—IEthernetChannel		
Group Number		
Bandwidth		
Aggregation Protocol		
IANA Type		
Containing CTPs		
Contained CTPs		

ATM

Table 8-12 ATM Attribute Support on Juniper Devices—Cisco ANA 3.6.5

Attribute	M-Series	T-Series
IMO Name—IAtm		
ATM Address		
Interface Type		
VP and VC Ranges		
VC Table	Y	Y
Cross-Connect Table		
IANA Type	Y	Y
Containing CTPs		

Table 8-12 ATM Attribute Support on Juniper Devices—Cisco ANA 3.6.5 (Continued)

Attribute	M-Series	T-Series
Contained CTPs		
IMO Name—IAtmVc		
Virtual Channel Identifier	Y	Y
Virtual Path Identifier	Y	Y
Shaping Profile		
Discarded and Received Input Data Counters		
Dropped and Forward Output Data Counters		
Ingress Traffic Descriptor		
Egress Traffic Descriptor		
Administrative Status	Y	Y
Operational Status	Y	Y
IANA Type		
Containing CTPs		
Contained CTPs		
IMO Name—IIMAGroup		
Description		
Speed		
Admin Status		
Oper Status		
Oper Status Last Change		
IANA Type		
Containing CTPs		
IMO Name—IAtmTrafficDescriptor		
Traffic Descriptor Type		
Service Category		
Cell Loss Priority		
Cell Delay Variation		
Cell Dealy Variation Tolerance		
Maximum High Priority and Aggregate Cell Rates		
Minimum High Priority and Aggregate Cell Rates		
Sustainable High Priority and Aggregate Cell Rates		

Table 8-12 ATM Attribute Support on Juniper Devices—Cisco ANA 3.6.5 (Continued)

Attribute	M-Series	T-Series
Peak High Priority and Aggregate Cell Rates		
Name		
Index		
IMO Name—IAtmTrafficShapingDescriptor		
Maximum Burst Size		
Sustainable and Peak Cell Rates		
Cell Delay Variation		
State		
Buffer Size		
Cell Loss Priority Discarded Size		
Name		
Index		
IMO Name—IAtmTrunk		
Same as IAtm		
IMO Name—IAtmLogicalPort/Trunk		
Resource Management Cell Termination		
Resource Management Cell Generation		
Effective Check Input and Output Capacities		
Admin Status		
Oper Status		
Same as IAtm		
IMO Name—IAtmTrunkVc		
Destination Description		
Same as IAtmVc		

Frame Relay

Table 8-13 Frame Relay Attribute Support on Juniper Devices—Cisco ANA 3.6.5

Attribute	M-Series	T-Series
IMO Name—Iframerelay/IFrTrunk		
Protocol Type	Y	Y
VC Table	Y	Y
Cross-Connect Table		
IANA Type		
Containing CTPs		
Contained CTPs		
IMO Name—IFrVc		
Data Link Connection Identifier	Y	Y
Traffic Descriptor		
Discard and Received Input Data Counters		
Dropped and Forward Output Data Counters		
Ingress Traffic Descriptor		
Egress Traffic Descriptor		
Administrative Status	Y	Y
Operational Status	Y	Y
IANA Type		
Containing CTPs		
Contained CTPs		
IMO Name—IFRTrafficDescriptor		
Committed Rate		
Excess Burst Rate		
Name		
Index		
IMO Name—IFramerelayLogicalPort/Trunk		
Admin Status		
Oper Status		
Same as IFrameRelay		
IMO Name—IFrTrunkVc		
Destination Description		
Same as IFrVc		

Table 8-13 Frame Relay Attribute Support on Juniper Devices—Cisco ANA 3.6.5 (Continued)

Attribute	M-Series	T-Series
IMO Name—IEncapsulation		
Virtual Connection Interface	Y	Y
Binding Information		

Point to Point

Table 8-14 Point to Point Attribute Support on Juniper Devices—Cisco ANA 3.6.5

Attribute	M-Series	T-Series
IMO Name—IVcBasedEncapsulation		
Virutal Connection	Y	Y
Binding Information		
Binding Status		
IANA Type		
Containing CTPs		
Contained CTPs		
IMO Name—Iencapsulation (HDLC/PPP)		
Virtual Connection	Y	Y
Binding Information		
Binding Status		
IANA Type		
Containing CTPs		
Contained CTPs		

MPLS

Table 8-15 MPLS Attribute Support on Juniper Devices—Cisco ANA 3.6.5

Attribute	M-Series	T-Series
IMO Name—IMpls		
Distribution Protocol	Y	Y
Outer and Inner Labels	Y	Y

Table 8-15 MPLS Attribute Support on Juniper Devices—Cisco ANA 3.6.5 (Continued)

Attribute	M-Series	T-Series
Traffic Engineering Properties		
Resource reservation Properties		
IANA Type		
Containing CTPs		
Contained CTPs		
IMO Name—ILse		
MPLS Table	Y	Y
MPLS Aggregate Table	Y	Y
MPLS Tunnel Segments	Y	Y
LDP Service	Y	Y
Logical Sons		
IMO Name—ILdpService		
Local Identification Status	Y	Y
LDP Peers	Y	Y
IMO Name—ILdpPeer		
Peer Identification	Y	Y
Transport Address	Y	Y
Distribution Method	Y	Y
Protocol Type	Y	Y
Path Vector Limit		
Session Status	Y	Y
Protocol Version Hold Time		
Hold Time	Y	Y
Hello Time Interval	Y	Y
Peer Discovery Sources	Y	Y
IMO Name—ILdpDiscoverySource		
Interface Name	Y	Y
Source Address	Y	Y
Type	Y	Y
IMO Name—IMplsEntry		
Incoming Label	Y	Y
Outgoing Interface and Label	Y	Y
Switching Action	Y	Y
Next Hop IP Address	Y	Y

Table 8-15 MPLS Attribute Support on Juniper Devices—Cisco ANA 3.6.5 (Continued)

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

VPN

Table 8-16 VPN Attribute Support on Juniper Devices—Cisco ANA 3.6.5

Attribute	M-Series	T-Series
IMO Name—IVrf		
Virutal Routing Table	Y	Y
Exported Route Targets	Y	Y
Imported Route Targets	Y	Y
Route Distinguisher	Y	Y
ARP Entity	Y	Y
Name	Y	Y
Logical Sons		
IMO Name—IVrfEntry		
Next Hop BGP Address	Y	Y
Incoming and Outgoing Inner Label	Y	Y
Outer Label	Y	Y
Destination IP Subnet	Y	Y
Next Hop IP Address	Y	Y
Type	Y	Y
Routing Protocol Type	Y	Y
Outgoing Interface Name	Y	Y
IMO Name—IMpBgp		
BGP Identifier		
Local Autonomous System		

Table 8-16 VPN Attribute Support on Juniper Devices—Cisco ANA 3.6.5 (Continued)

Attribute	M-Series	T-Series
Cross Virtual Routing Table		
BGP Neighbors	Y	Y
Logical Sons		
IMO Name—ICrossVrf		
Virtual Routing Entries		
Virtual Routing Entity Name		
IMO Name—ICrossVrfRoutingEntry		
Outgoing Virtual Routing Entity Identifier		
Incoming and Outgoing Virtual Routing Tags		
Destination IP Subnet		
Next Hop IP Address		
Type		
Routing Protocol Type		
Outgoing Interface Name		

Physical Equipment

Table 8-17 Physical Equipment Attribute Support on Juniper Devices—Cisco ANA 3.6.5

Attribute	M-Series	T-Series
IMO Name—IChassis		
Description	Y	Y
Equipment Holder Type	Y	Y
Contained Equipment Holders		
Contained Equipments		
IMO Name—IShelf		
Description		
Status		
Equipment Holder Type		
Contained Equipment Holders		
Contained Equipments		

Table 8-17 Physical Equipment Attribute Support on Juniper Devices—Cisco ANA 3.6.5

Attribute	M-Series	T-Series
IMO Name—IModule		
Module Name	Y	Y
Module Description	Y	Y
Software Version		
Operational Status	Y	Y
Hardware Type + Version	Y	Y
Managed IP Address		
Redundant Equipment		
Configured Redundancy		
Redundancy Status		
Operational Status Last Changed		
Supported Physical Termination Points		
Serial Number (soft property)	Y	Y

Base Logical Components

Table 8-18 Base Logical Components Attribute Support on Juniper Devices—Cisco ANA 3.6.5

Attribute	M-Series	T-Series
IMO Name—IManagedElement		
IP Address	Y	Y
Communication State	Y	Y
Investigation State	Y	Y
Element Category	Y	Y
Element Type and Key	Y	Y
Device Name	Y	Y
System Name	Y	Y
System Description	Y	Y
Up Time	Y	Y
Software Version	Y	Y
Vendor Identity	Y	Y
Memory and CPU Usage	Y	Y

Table 8-18 Base Logical Components Attribute Support on Juniper Devices—Cisco ANA 3.6.5

Attribute	M-Series	T-Series
IMO Name—IContext		
Name		
Bounded Connections		
IP Address Pools		
Forwarding Components List		
Traffic Descriptors List		
Tunnel Containers List		
Data Link Aggregation Containers List		
IMO Name—ISystemService		
Type		
Status		
Up Time		

Common

Table 8-19 Common Attribute Support on Juniper Devices—Cisco ANA 3.6.5

Attribute	M-Series	T-Series
IMO Name—IPhysicalLayer		
Media Type	Y	Y
Clocking Source	Y	Y
Maximum Speed	Y	Y
Is Internal Port	Y	Y
Discarded Bandwidth		
Dropped Bandwidth		
Input Bandwidth		
Output Bandwidth		
Discarded and Received Input Data Counters	Y	Y
Dropped and Forward Output Data Counters	Y	Y
Administrative Status	Y	Y
Operational Status	Y	Y

Table 8-19 Common Attribute Support on Juniper Devices—Cisco ANA 3.6.5 (Continued)

Attribute	M-Series	T-Series
Last Changed	Y	Y
IANA Type	Y	Y
Containing CTPs		
Contained CTPs		
IMO Name—IBridge		
Bridge Table		
Type		
MAC Address		
IP Interface		
Name		
Logical Sons		
IMO Name—IBridgeEntry		
Destination MAC		
Outgoing Interface		
IMO Name—IVcSwitchingEntity		
Cross Connect Table		
Logical Sons		