



CHAPTER 5

Support Information for Cisco Gateways

This chapter contains support information for Virtual Network Elements (VNEs) that manage Cisco gateways in Cisco Prime Network 3.8.

This chapter contains the following topics:

- [Cisco AS5300 Series Universal Gateways, page 5-1](#)
- [Supported Technologies on Cisco Gateways, page 5-3](#)



Note

For more information about the technologies described in this chapter, see Part 2 Technology Support.

Cisco AS5300 Series Universal Gateways

This section includes the following information about Cisco AS5300 Series gateways.

This section contains the following topics:

- [Cisco AS5300 Series—Supported Software Versions, page 5-1](#)
- [Cisco AS5300 Series—Supported Topologies, page 5-2](#)
- [Cisco AS5300 Series—Supported Modules, page 5-2](#)
- [Cisco AS5300 Series—Supported Technologies, page 5-2](#)
- [Cisco AS5300 Series—Supported Service Events, page 5-3](#)



Note

For information on the NE types supported in Cisco Prime Network 3.8, see [Cisco AS5300 Series Universal Gateways](#).

Cisco AS5300 Series—Supported Software Versions

Table 5-1 *Supported Software Versions for Cisco AS5300 Series—Cisco Prime Network 3.8*

Software Version	Product_Version
12.0(3)T1	3.6.0

Table 5-1 *Supported Software Versions for Cisco AS5300 Series—Cisco Prime Network 3.8 (Continued)*

Software Version	Product_Version
12.1(10a)	3.6.0
12.1(11b)	3.6.0
12.1(22b)	3.6.0
12.19(22b)	3.6.0
12.3(10c)	3.6.0
12.3(3)	3.6.0

Cisco AS5300 Series—Supported Topologies

Table 5-2 *Supported Topologies for Cisco AS5300 Series—Cisco Prime Network 3.8*

Topology Type	Link Type	Product_Version
Ethernet	Ethernet	3.6.0
Physical Layer	Physical Layer	3.6.0

Cisco AS5300 Series—Supported Modules

Table 5-3 *Supported Modules for Cisco AS5300 Series—Cisco Prime Network 3.8*

Module Name	Product_Version	Module Description
AS5300-8CE1-4T	3.6.0	Octal Port Channelized E1/PRI and 4T Card
AS5300-AMAZON2-CARRIER	3.6.0	Access Server MICA Modem Carrier Card
PM-DTD-12M	3.6.0	MICA 12-Modem Module Card
CPU-AS5300	3.6.0	AS5300
AS5300-4CE1	3.6.0	Quad Port Channelized E1/PRI Card
AS5300-DTD-CARRIER	3.6.0	Access Server MICA Modem Carrier Card
PM-DTD-6M	3.6.0	MICA 6-Modem Module Card

Cisco AS5300 Series—Supported Technologies

The following technologies are supported by the Cisco AS5300 Series in Cisco Prime Network 3.8:

- [IP, page 5-4](#)
- [Ethernet, page 5-7](#)
- [Security, page 5-12](#)

- [Hardware, page 5-13](#)
- [Serial, page 5-16](#)
- [CDP, page 5-17](#)
- [Discovery Protocol, page 5-17](#)

Cisco AS5300 Series—Supported Service Events

Table 5-4 *Supported Service Events for Cisco AS5300 Series—Cisco Prime Network 3.8*

Event Name	Product_V ersion	Expedited
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
CPU utilization exceeded upper threshold	3.6.0	N
Device Unsupported	3.6.0	N
Keepalive configured	3.6.0	N
Keepalive not configured	3.6.0	N
Layer 2 Tunnel Down	3.6.0	N
Link up	3.6.0	N
Memory utilization exceeded upper threshold	3.6.0	N
Module Unsupported	3.6.0	N
Rx utilization exceeded upper threshold	3.6.0	N
Tx utilization exceeded upper threshold	3.6.0	N

Supported Technologies on Cisco Gateways

The following sections list the objects and attributes that are supported on Cisco gateways in Cisco Prime Network 3.8 per technology:

This section contains the following topics:

- [IP, page 5-4](#)
- [Ethernet, page 5-7](#)

- [Security, page 5-12](#)
- [Hardware, page 5-13](#)
- [Serial, page 5-16](#)
- [CDP, page 5-17](#)
- [Discovery Protocol, page 5-17](#)

IP

Table 5-5 *IP Attribute Support on Cisco Gateways—Cisco Prime Network 3.8*

Attribute	AS5300
IMO Name—IIPInterface	
IP Address	Y
Subnetwork Mask	Y
IP Interface Addresses Array	Y
Interface Name	Y
Interface Description	Y
IP Interface State	Y
OSPF Interface Cost	
Broadcast Address	
MTU	
Lookup Method	
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—IIRoutingEntity	
Routing Table	Y
ARP Entity	Y

Table 5-5 IP Attribute Support on Cisco Gateways—Cisco Prime Network 3.8 (Continued)

Attribute	AS5300
Routing Table Changes	
Name	
Logical Sons	
IMO Name—IIRoutingEntry	
Destination IP Subnet	Y
Next Hop IP Address	Y
Type	Y
Routing Protocol Type	Y
Outgoing Interface Name	Y
IMO Name—IARPEntity	
ARP Table	Y
IMO Name—IARPEntity	
IP Address	Y
MAC Address	Y
Port	Y
Entry Type	Y
IMO Name—IIPPool	
IP Address Pool Entries	
Name	
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—HSRPGGroupEntry	
Group Number	
Port Description	
Priority	

Table 5-5 *IP Attribute Support on Cisco Gateways—Cisco Prime Network 3.8 (Continued)*

Attribute	AS5300
Coupled Router	
State	
Tracking Interfaces	
Virtual IP Address	
Virtual MAC Address	
IMO Name—I Tunnel GRE	
Name	
Tunnel Destination and Source	
IP Address	
IP Interface State	
IANA Type	
Containing CTPs	
Contained CTPs	
Keep Alive Time	
Keep Alive Retry	
IMO Name—IVrrp Group Entry	
Group Number	
State	
Port Description	
Master IP Address	
Primary IP Address	
Priority	
Virtual Mac Address	
Preempt Mode	
Admin State	
Advertisement Interval	
Tracking Interfaces	
IMO Name—IIPSLA Responder Service	
responderStatus	
TWAMPResponderStatus	
tcpConnect	
udpEcho	
IMO Name—IIP Address Port Pair	
type	
ipAddress	

Table 5-5 IP Attribute Support on Cisco Gateways—Cisco Prime Network 3.8 (Continued)

Attribute	AS5300
port	

Ethernet

Table 5-6 Ethernet Attribute Support on Cisco Gateways—Cisco Prime Network 3.8

Attribute	AS5300
IMO	
Name—ILinkAggregationGroup802dot3ad	
dot3adAggMACAddress	
dot3adAggActorSystemPriority	
dot3adAggActorSystemID	
dot3adAggActorAdminKey	
dot3adAggActorOperKey	
dot3adAggPartnerSystemID	
dot3adAggPartnerSystemPriority	
dot3adAggPartnerOperKey	
dot3adAggCollectorMaxDelay	
GroupNumber	
AggregationProtocolType	
MacAddress	
ChannelAdminStatus	
ChannelOperStatus	
IMO Name—IEthernet	
MAC Address	Y
Duplex Mode	
Output Flow Control	
Input Flow Control	
IANA Type	
Containing CTPs	
Contained CTPs	
Port Type	
isElmiEnabled	
isLOAMEnabled	

Table 5-6 Ethernet Attribute Support on Cisco Gateways—Cisco Prime Network 3.8 (Continued)

Attribute	AS5300
IMO Name—IVlanInterface	
Mode	
Native VLAN Identification	
Virtual LAN Table	
IANA Type	
Containing CTPs	
Contained CTPs	
vlanAdminType	
vlanencapType	
getAccess	
Allowed Vlans	
IMO Name—IVlanEncapMux	
IANA Type	
Containing CTPs	
Contained CTPs	
IMO Name—IVlanMapping	
direction	
vlanMatchCriteria	
vlanRewriteDefinition	
Drop	
Vlan	
innerVlan	
translatedVlan	
translatedInnerVlan	
IMO Name—IIEEE802	
VLAN Identification	
Binding Information	
Binding Status	
IANA Type	
Containing CTPs	
Contained CTPs	
IMO Name—IStpService	
StpProtocol	
StpMaxAge	
StpHelloTime	

Table 5-6 Ethernet Attribute Support on Cisco Gateways—Cisco Prime Network 3.8 (Continued)

Attribute	AS5300
StpBridgeForwardDelay	
StpInstanceInfoTable	
Same as ISystemService	
StpUplinkFastState	
StpBackboneFastState	
StpForwardDelay	
StpBridgeMaxAge	
StpBridgeHelloTime	
IMO Name—IMstService	
MstProperties	
Same as IStpService	
IMO Name—IPvstpService	
UpLinkFast	
BackboneFast	
IMO Name—IMstProperties	
MstForceVersion	
MstCfgIdFmtSel	
MstExternalRootCost	
MstMaxInstances	
MstCfgIdName	
MstCfgIdRevLevel	
IMO Name—IStpInstanceInfo	
Object Identification	
StpBridgeId	
BridgePriority	
Designated Parent and Root Bridges	
StpRootCost	
IsRoot	
StpRootPort	
StpPortInfoTable	
STP Instance Id	
Vlan Id	
StpDesignatedBridge	
StpDesignatedRoot	

Table 5-6 Ethernet Attribute Support on Cisco Gateways—Cisco Prime Network 3.8 (Continued)

Attribute	AS5300
IMO Name—IMstInstanceInfo	
MstVlanIds	
Same as IStpInstanceInfo	
IMO Name—IPvstpInstanceInfo	
Protocol Type	
StpBridgeMaxAge	
StpBridgeHelloTime	
StpBridgeForwardDelay	
StpProtocolSpecification	
StpVlanId	
StpForwardDelay	
StpMaxAge	
IMO Name—IRstpInstanceInfo	
StpForceVersion	
Same as IStpInstanceInfo	
IMO Name—IStpPortInfo	
StpPort	
StpPortPriority	
StpPortState	
StpPortPathCost	
StpPortEdgePort	
StpPortPointToPoint	
StpPortRole	
StpDesignatedPortIdentifier	
StpDesignatedBridge	
StpPortIdentifier	
StpPortBpduGuardState	
StpPortBpduFilterState	
IMO Name—IMstPortInfo	
MstPortHelloTime	
Same as IStpPortInfo	
IMO Name—IPvstpPortInfo	
PvstpPortFastState	
IMO Name—IEthernetChannel	
Group Number	

Table 5-6 Ethernet Attribute Support on Cisco Gateways—Cisco Prime Network 3.8 (Continued)

Attribute	AS5300
Bandwidth	
Aggregation Protocol	
IANA Type	
Containing CTPs	
Contained CTPs	
Mac Address	
Admin Status	
Oper Status	
IMO Name—ITokenRingLayer2	
MAC Address	
IANA Type	
Containing CTPs	
Contained CTPs	
IMO Name—ITokenRingLayer1	
Same as IPhysicalLayer	
IMO Name—IVtpService	
Version	
OperatingMode	
DomainName	
ConfigurationRevision	
isPruningEnabled	
isAuthenticationEnabled	
IMO Name—IREPService	
version	
administrativeVlan	
notificationEnabled	
IMO Name—IREPSegmentInfo	
segmentId	
segmentComplete	
IMO Name—IREPPortInfo	
portName	
portKey	
segmentId	
portType	
portRole	

Table 5-6 Ethernet Attribute Support on Cisco Gateways—Cisco Prime Network 3.8 (Continued)

Attribute	AS5300
operStatus	
blockedVlans	
preemptTimer	
lslAgeoutTimer	
remoteDeviceName	
remoteDeviceMac	
remotePortName	
configuredLoadBalancingBlockedVlans	
IMO Name—IBridgeLan	
Id	
IMO Name—IIBridgeEntry	
IS Id	
IBridge	
BBridge	

Security

Table 5-7 Security Attribute Support on Cisco Gateways—Cisco Prime Network 3.8

Attribute	AS5300
IMO Name—IAccessList	
Type	
Access List Entries	
Name or Id	
Index	
IMO Name—IAccessListEntry	
Entry Identification	Y
Action Logic	Y
Source and Destination Address	Y
Source and Destination Wildcard	Y
Protocol Type	Y
Source and Destination Port Ranges	Y

Table 5-7 Security Attribute Support on Cisco Gateways—Cisco Prime Network 3.8 (Continued)

Attribute	AS5300
Source and Destination Port Action	Y
Protocol Specific Info	Y
Differential Services Code Points	Y
Type of Service	Y
Precedence	Y
Matches	Y

Hardware

Table 5-8 Hardware Attribute Support on Cisco Gateways—Cisco Prime Network 3.8

Attribute	AS5300
IMO Name—IChassis	
Description	
Equipment Holder Type	
Contained Equipment Holders	
Contained Equipments	
Serial Number	Y
IMO Name—IShelf	
Description	
Status	
Equipment Holder Type	
Contained Equipment Holders	
Contained Equipments	
Serial Number	
IMO Name—IModule	
Module Name	Y
Module Description	Y
Software Version	Y
Operational Status	Y
Hardware Type + Version	Y
Managed IP Address	

Table 5-8 Hardware Attribute Support on Cisco Gateways—Cisco Prime Network 3.8 (Continued)

Attribute	AS5300
Redundant Equipment	
Configured Redundancy	
Redundancy Status	
Operational Status Last Changed	
Supported Physical Termination Points	
Serial Number (soft property)	Y
Slots Number	
IMO Name—IPowerSupply	
Same as IModule	
IMO Name—IFanTray	
Same as IModule	
IMO Name—IPluggableTransceiver	
ConnectorDescription	
PID	
ConnectorSerialNumber	
ConnectorType	
PluggablePortState	
PluggableType	
IMO Name—IManagedElement	
IP Address	Y
Communication State	Y
Investigation State	Y
Element Category	Y
Element Type and Key	Y
Device Name	Y
System Name	Y
System Description	Y
Up Time	Y
Software Version	Y
Vendor Identity	Y
Memory and CPU Usage	Y
DRAM Free	
DRAM Used	
Flash Device Size	Y

Table 5-8 Hardware Attribute Support on Cisco Gateways—Cisco Prime Network 3.8 (Continued)

Attribute	AS5300
NVRAM Size	Y
Processor DRAM	
Sys Contact	Y
Sys Location	Y
Serial Number	Y
File Systems	
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	
IMO Name—IBridge	
Bridge Table	
Type	
MAC Address	
IP Interface	
Name	
Logical Sons	
Vlan Type	
IMO Name—IBridgeEntry	
Destination MAC	
Outgoing Interface	

Serial

Table 5-9 Serial Attribute Support on Cisco Gateways—Cisco Prime Network 3.8

Attribute	AS5300
IMO Name—IPPhysicalLayer	
Media Type	Y
Clocking Source	
Maximum Speed	Y
Is Internal Port	Y
Discarded Bandwidth	
Dropped Bandwidth	
Input Bandwidth	
Output Bandwidth	
Discarded and Received Input Data Counters	Y
Dropped and Forward Output Data Counters	Y
Administrative Status	Y
Operational Status	Y
Last Changed	Y
IANA Type	Y
Containing CTPs	
Contained CTPs	
Port Alias	Y
Location	Y
Sending Alarms	Y
Connector Description	Y
Part ID	Y
Connector Serial Num	Y
Product	Y
Status	Y
Managed	Y

CDP

Table 5-10 CDP Attribute Support on Cisco Gateways—Cisco Prime Network 3.8

Attribute	AS5300
IMO Name—ICdpService	
cdpHoldtime	Y
cdpMessageInterval	Y
cdpDeviceId	Y
cdpState	Y
cdpVersion	Y
IMO Name—ICdpNeighbor	
remoteDeviceId	Y
remotePortId	Y
remoteIPAddress	Y
localPortId	Y

Discovery Protocol

Table 5-11 Discovery Protocol Attribute Support on Cisco Gateways—Cisco Prime Network 3.8

Attribute	AS5300
IMO Name—IDiscoveryProtocol	
DiscoveryProtocolType	Y
Info	Y

