



CHAPTER 3

Support Information for Cisco Security Appliances

This chapter contains support information for Virtual Network Elements (VNEs) that manage Cisco security appliances in Cisco ANA Version 3.7.1. For more information about the objects and attributes described in this chapter, see Part 2: Technology Support and Information Model Objects.

This chapter contains the following topics:

- [Cisco Adaptive Security Appliance 5550 Series, page 3-1](#)
- [Cisco Adaptive Security Appliance 5580 Series, page 3-3](#)
- [Supported Technologies on Cisco Security Appliances, page 3-5](#)

Cisco Adaptive Security Appliance 5550 Series

This section includes the following information about Cisco ASA 5550 Series security appliances (for information on the NE types supported in Cisco ANA Version 3.7.1, see [Cisco Adaptive Security Appliance 5550 Series](#)):

- [Cisco ASA 5550 Series—Supported Software Versions, page 3-1](#)
- [Cisco ASA 5550 Series—Supported Topologies, page 3-2](#)
- [Cisco ASA 5550 Series—Supported Modules, page 3-2](#)
- [Cisco ASA 5550 Series—Supported Technologies, page 3-2](#)
- [Cisco ASA 5550 Series—Supported Service Events, page 3-2](#)

Cisco ASA 5550 Series—Supported Software Versions

Table 3-1 *Supported Software Versions for Cisco ASA 5550 Series—Cisco ANA Version 3.7.1*

Software Version	ANA Version
7.2(3)12	3.6.3

Cisco ASA 5550 Series—Supported Topologies

Table 3-2 Supported Topologies for Cisco ASA 5550 Series—Cisco ANA Version 3.7.1

Topology Type	Link Type	ANA Version
Ethernet	Ethernet	3.6.3

Cisco ASA 5550 Series—Supported Modules

Table 3-3 Supported Modules for Cisco ASA 5550 Series—Cisco ANA Version 3.7.1

Module Name	ANA Version	Module Description
SSM-4GE-INC	3.6.3	SSM-4GE Included with ASA 5550 System

Cisco ASA 5550 Series—Supported Technologies

The following technologies are supported by the Cisco ASA 5550 Series in Cisco ANA Version 3.7.1:

- [IP, page 3-6](#)
- [Ethernet, page 3-9](#)
- [Hardware, page 3-14](#)
- [Serial, page 3-17](#)

Cisco ASA 5550 Series—Supported Service Events

Table 3-4 Supported Service Events for Cisco ASA 5550 Series—Cisco ANA Version 3.7.1

Event Name	ANA Version	Expedited
Active IP Interfaces Found	3.6.3	Y
All IP Interfaces Down	3.6.3	Y
BGP process up	3.6.3	N
Card Down	3.6.3	Y
Card In	3.6.3	Y
Card Out	3.6.3	Y
Card Up	3.6.3	Y
CPU utilization exceeded upper threshold	3.6.3	N
Device Unsupported	3.6.3	N
Keepalive configured	3.6.3	N

Table 3-4 Supported Service Events for Cisco ASA 5550 Series—Cisco ANA Version 3.7.1

Event Name	ANA Version	Expedited
Keepalive not configured	3.6.3	N
Layer 2 Tunnel Down	3.6.3	N
Link up	3.6.3	N
Memory utilization exceeded upper threshold	3.6.3	N
Module Unsupported	3.6.3	N
Rx utilization exceeded upper threshold	3.6.3	N
Tx utilization exceeded upper threshold	3.6.3	N

Cisco Adaptive Security Appliance 5580 Series

This section includes the following information about Cisco ASA 5580 Series security appliances (for information on the NE types supported in Cisco ANA Version 3.7.1, see [Cisco Adaptive Security Appliance 5580 Series](#)):

- [Cisco ASA 5580 Series—Supported Software Versions](#), page 3-3
- [Cisco ASA 5580 Series—Supported Topologies](#), page 3-3
- [Cisco ASA 5580 Series—Supported Modules](#), page 3-4
- [Cisco ASA 5580 Series—Supported Technologies](#), page 3-4
- [Cisco ASA 5580 Series—Supported Service Events](#), page 3-5

Cisco ASA 5580 Series—Supported Software Versions

Table 3-5 Supported Software Versions for Cisco ASA 5580 Series—Cisco ANA Version 3.7.1

Software Version	ANA Version
8.1(2)	3.7
8.1(2)12	3.7

Cisco ASA 5580 Series—Supported Topologies

Table 3-6 Supported Topologies for Cisco ASA 5580 Series—Cisco ANA Version 3.7.1

Topology Type	Link Type	ANA Version
Ethernet	Ethernet	3.7

Cisco ASA 5580 Series—Supported Modules

Table 3-7 *Supported Modules for Cisco ASA 5580 Series—Cisco ANA Version 3.7.1*

Module Name	ANA Version	Module Description
ASA5580-4GE-CU	3.7	Cisco ASA 5580 4-port 10/100/1000 Ethernet interface card, RJ45
ASA5580-4GE-FI	3.7	Cisco ASA 5580 4-port Gigabit Ethernet fiber interface card, SR, LC
ASA5580-2X10GE-SR	3.7	Cisco ASA 5580 2-port 10 Gigabit Ethernet fiber interface card, SR, LC

Cisco ASA 5580 Series—Supported Technologies

The following technologies are supported by the Cisco ASA 5580 Series in Cisco ANA Version 3.7.1:

- [IP, page 3-6](#)
- [Ethernet, page 3-9](#)
- [Hardware, page 3-14](#)
- [Serial, page 3-17](#)

Cisco ASA 5580 Series—Supported Service Events

Table 3-8 *Supported Service Events for Cisco ASA 5580 Series—Cisco ANA Version 3.7.1*

Event Name	ANA Version	Expedited
Active IP Interfaces Found	3.7	Y
All IP Interfaces Down	3.7	Y
BGP process up	3.7	N
Card Down	3.7	Y
Card In	3.7	Y
Card Out	3.7	Y
Card Up	3.7	Y
CPU utilization exceeded upper threshold	3.7	N
Device Unsupported	3.7	N
Keepalive configured	3.7	N
Keepalive not configured	3.7	N
Layer 2 Tunnel Down	3.7	N
Link up	3.7	N
Memory utilization exceeded upper threshold	3.7	N
Module Unsupported	3.7	N
Rx utilization exceeded upper threshold	3.7	N
Tx utilization exceeded upper threshold	3.7	N

Supported Technologies on Cisco Security Appliances

The following sections list the objects and attributes that are supported on Cisco security appliances in Cisco ANA Version 3.7.1 per technology:

- [IP, page 3-6](#)
- [Ethernet, page 3-9](#)
- [Hardware, page 3-14](#)
- [Serial, page 3-17](#)

For information about IMO changes in Cisco ANA 3.7.1, please see <http://developer.cisco.com/web/ana/integration>.

IP

Table 3-9 IP Attribute Support on Cisco Security Appliances—Cisco ANA Version 3.7.1

Attribute	ASA5550	ASA5580
IMO Name—IIPInterface		
IP Address	Y	Y
Subnetwork Mask	Y	Y
IP Interface Addresses Array	Y	Y
Interface Name	Y	Y
Interface Description	Y	Y
IP Interface State	Y	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—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

Table 3-9 IP Attribute Support on Cisco Security Appliances—Cisco ANA Version 3.7.1

Attribute	ASA5550	ASA5580
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—IARPEntity		
IP Address	Y	Y
MAC Address	Y	Y
Port	Y	Y
Entry Type	Y	Y
IMO Name—IIPPool		
IP Address Pool Entries		
Name		
Index		
IMO Name—IIPRangeBasedIIPPoolEntry		
Start IP Address		
End IP Address		
Unused Addresses		
Used Addresses		
Reserved Addresses		
IMO Name—IIPSubnetBasedIIPPoolEntry		
IP Subnet		
Unused Addresses		
Used Addresses		
Reserved Addresses		
IMO Name—HSRPGGroupEntry		
Group Number		
Port Description		
Priority		
Coupled Router		
State		
Tracking Interfaces		
Virtual IP Address		
Virtual MAC Address		

Table 3-9 *IP Attribute Support on Cisco Security Appliances—Cisco ANA Version 3.7.1*

Attribute	ASA5550	ASA5580
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—I IPSLA Responder Service		
responderStatus		
TWAMP Responder Status		
tcpConnect		
udpEcho		
IMO Name—I IP Address Port Pair		
type		
ipAddress		
port		

Ethernet

Table 3-10 Ethernet Attribute Support on Cisco Security Appliances—Cisco ANA Version 3.7.1

Attribute	ASA5550	ASA5580
IMO Name—ILinkAggregationGroup802dot3ad		
dot3adAggMACAddress		
dot3adAggActorSystemPriority		
dot3adAggActorSystemID		
dot3adAggActorAdminKey		
dot3adAggActorOperKey		
dot3adAggPartnerSystemID		
dot3adAggPartnerSystemPriority		
dot3adAggPartnerOperKey		
dot3adAggCollectorMaxDelay		
GroupNumber		
AggregationProtocolType		
MacAddress		
ChannelAdminStatus		
ChannelOperStatus		
IMO Name—IEthernet		
MAC Address	Y	Y
Duplex Mode		
Output Flow Control		
Input Flow Control		
IANA Type	Y	Y
Containing CTPs		
Contained CTPs		
Port Type		
isElmiEnabled		
isLOAMEnabled		
IMO Name—IVlanInterface		
Mode		
Native VLAN Identification		
Virtual LAN Table		
IANA Type		
Containing CTPs		

Table 3-10 Ethernet Attribute Support on Cisco Security Appliances—Cisco ANA Version 3.7.1

Attribute	ASA5550	ASA5580
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		
StpBridgeForwardDelay		
StpInstanceInfoTable		
Same as ISystemService		
StpUplinkFastState		
StpBackboneFastState		
StpForwardDelay		

Table 3-10 Ethernet Attribute Support on Cisco Security Appliances—Cisco ANA Version 3.7.1

Attribute	ASA5550	ASA5580
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		
IMO Name—IMstInstanceInfo		
MstVlanIds		
Same as IStpInstanceInfo		
IMO Name—IPvstpInstanceInfo		
Protocol Type		
StpBridgeMaxAge		

Table 3-10 Ethernet Attribute Support on Cisco Security Appliances—Cisco ANA Version 3.7.1

Attribute	ASA5550	ASA5580
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		
Bandwidth		
Aggregation Protocol		
IANA Type		
Containing CTPs		
Contained CTPs		
Mac Address		

Table 3-10 Ethernet Attribute Support on Cisco Security Appliances—Cisco ANA Version 3.7.1

Attribute	ASA5550	ASA5580
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		
operStatus		
blockedVlans		
preemptTimer		
IslAgeoutTimer		
remoteDeviceName		
remoteDeviceMac		

Table 3-10 Ethernet Attribute Support on Cisco Security Appliances—Cisco ANA Version 3.7.1

Attribute	ASA5550	ASA5580
remotePortName		
IMO Name—IBridgeLan		
Id		
IMO Name—IIBridgeEntry		
IS Id		
IBridge		
BBridge		

Hardware

Table 3-11 Hardware Attribute Support on Cisco Security Appliances—Cisco ANA Version 3.7.1

Attribute	ASA5550	ASA5580
IMO Name—IChassis		
Description		Y
Equipment Holder Type	Y	Y
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	Y
Module Description	Y	Y
Software Version	Y	Y
Operational Status	Y	
Hardware Type + Version	Y	Y
Managed IP Address		

Table 3-11 Hardware Attribute Support on Cisco Security Appliances—Cisco ANA Version 3.7.1

Attribute	ASA5550	ASA5580
Redundant Equipment		
Configured Redundancy		
Redundancy Status		
Operational Status Last Changed		
Supported Physical Termination Points		
Serial Number (soft property)	Y	Y
Slots Number		
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
DRAM Free		
DRAM Used		
Flash Device Size	Y	
NVRAM Size	Y	
Processor DRAM		
Sys Contact	Y	Y
Sys Location	Y	Y
Serial Number	Y	Y
File Systems		
IMO Name—IContext		
Name		
Bounded Connections		
IP Address Pools		
Forwarding Components List		

Table 3-11 Hardware Attribute Support on Cisco Security Appliances—Cisco ANA Version 3.7.1

Attribute	ASA5550	ASA5580
Traffic Descriptors List		
Tunnel Containers List		
Data Link Aggregation Containers List		
IMO Name—ISystemService		
Type		
Status		
Up Time	Y	Y
IMO Name—IBridge		
Bridge Table		
Type		
MAC Address		
IP Interface		
Name		
Logical Sons		
Vlan Type		
IMO Name—IBridgeEntry		
Destination MAC		
Outgoing Interface		

Serial

Table 3-12 Serial Attribute Support on Cisco Security Appliances—Cisco ANA Version 3.7.1

Attribute	ASA5550	ASA5580
IMO Name—IPhysicalLayer		
Media Type	Y	Y
Clocking Source		
Maximum Speed	Y	Y
Is Internal Port	Y	Y
Discarded Bandwidth		
Dropped Bandwidth		
Input Bandwidth		
Output Bandwidth		
Discarded and Received Input Data Counters		
Dropped and Forward Output Data Counters		
Administrative Status	Y	Y
Operational Status	Y	Y
Last Changed		
IANA Type	Y	Y
Containing CTPs		
Contained CTPs		
Port Alias	Y	Y
Location	Y	Y
Sending Alarms	Y	Y
Connector Description	Y	
Part ID	Y	
Connector Serial Num	Y	
Product	Y	Y
Status	Y	Y
Managed	Y	Y

