



CHAPTER 6

Support Information for Huawei Devices

This chapter contains support information for Virtual Network Elements (VNEs) that manage Huawei 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:

- [Huawei - Quidway@ S9300 Series Terabit Routing Switch, page 6-1](#)
- [Huawei - Quidway@ CX600-CarrierSwitch and ATN-Cellsite-Gateway, page 6-3](#)
- [Supported Technologies on Huawei Devices, page 6-6](#)

Huawei - Quidway@ S9300 Series Terabit Routing Switch

This section includes the following information about Quidway@S9300 Series devices (for information on the NE types supported in Cisco ANA Version 3.7.2 and 3.7.3, see the [Huawei - Quidway@ S9300 Series Terabit Routing Switch](#)):

This section contains the following topics:

- [Quidway@S9300 Series—Supported Software Versions, page 6-2](#)
- [Quidway@S9300 Series—Supported Topologies, page 6-2](#)
- [Quidway@S9300 Series—Supported Modules, page 6-2](#)
- [Quidway@S9300 Series—Supported Technologies, page 6-3](#)
- [Quidway@S9300 Series—Supported Service Events, page 6-3](#)

Quidway@S9300 Series—Supported Software Versions

Table 6-1 Supported Software Versions for Quidway@S9300 Series—Cisco ANA Version 3.7.2 and 3.7.3

Software Version	ANA Version	DP Version
5.50	3.7.2	3.0

Quidway@S9300 Series—Supported Topologies

Table 6-2 Supported Topologies for Quidway@S9300 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

Quidway@S9300 Series—Supported Modules

Table 6-3 Supported Modules for Quidway@S9300 Series—Cisco ANA Version 3.7.2 and 3.7.3

Module Name	ANA Version	Module Description	DP Version
Power Module	3.7.2	Power Module	3.0
CMU	3.7.2	CMU manages the power supplies and fans of the system uniformly.	3.0
LPU	3.7.2	Line Processing Unit	3.0
MPU	3.7.2	Main Processing Unit	3.0
Fan	3.7.2	Fan	3.0

Quidway@S9300 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 6-7](#)
- [Ethernet, page 6-8](#)
- [Hardware, page 6-8](#)
- [Serial, page 6-11](#)

Quidway@S9300 Series—Supported Service Events

Table 6-4 *Supported Service Events for JQuidway@S9300 Series—Cisco ANA Version 3.7.2 and 3.7.3*

Event Name	ANA Version	Expedited	DP Version
Link Down	3.7.2	N	3.0
Link Up	3.7.2	N	3.0

Huawei - Quidway@ CX600-CarrierSwitch and ATN-Cellsite-Gateway

This section includes the following information about Quidway@CX600-CarrierSwitch and ATN-Cellsite-Gateway devices (for information on the NE types supported in Cisco ANA Version 3.7.2 and 3.7.3, see the [Huawei - Quidway@ CX600-CarrierSwitch and ATN-Cellsite-Gateway](#)):

This section contains the following topics:

- [Quidway@CX600/ATN Series—Supported Software Versions, page 6-4](#)
- [Quidway@CX600/ATN Series—Supported Topologies, page 6-4](#)
- [Quidway@CX600/ATN Series—Supported Modules, page 6-4](#)
- [Quidway@CX600/ATN Series—Supported Technologies, page 6-6](#)
- [Quidway@CX600/ATN Series—Supported Service Events, page 6-6](#)

Quidway@CX600/ATN Series—Supported Software Versions

Table 6-5 Supported Software Versions for Quidway@CX600/ATN Series—Cisco ANA Version 3.7.2 and 3.7.3

Software Version	ANA Version	DP Version
5.90	3.7.2/3.7.3	5.0

Quidway@CX600/ATN Series—Supported Topologies

Table 6-6 Supported Topologies for Quidway@CX600/ATN Series—Cisco ANA Version 3.7.2 and 3.7.3

Topology Type	Link Type	ANA Version	DP Version
Ethernet	Ethernet	3.7.2/3.7.3	5.0
MPBGP	MPBGP	3.7.2/3.7.3	5.0
L3 VPN	VPN	3.7.2/3.7.3	5.0

Quidway@CX600/ATN Series—Supported Modules

Table 6-7 Supported Modules for Quidway@CX600/ATN Series—Cisco ANA Version 3.7.2 and 3.7.3

Module Name	ANA Version	Module Description	DP Version
Power Module	3.7.2/3.7.3	Power Module	5.0
Fan	3.7.2/3.7.3	Fan	5.0
CR53LPUF	3.7.2/3.7.3	CX600,CR53LPUFC0,Flexible Card Line Processing Unit(LPUF-10,four slots)	5.0
CR52LPUN	3.7.2/3.7.3	CX600,CR52LPUF40A,Flexible Card Line Processing Unit(LPUF-40,2 sub-slots) A (L3VPN,MVPN,IPv6 Enhanced)	5.0
CR52EEGFNB	3.7.2/3.7.3	20-Port 100/1000Base-X-SFP Flexible Card A(Supporting 1588v2)	5.0
CR52L2XXNB	3.7.2/3.7.3	2-Port 10GBase LAN/WAN-XFP Flexible Card A(Supporting 1588v2)	5.0
CR52LPUK	3.7.2/3.7.3	CX600,CX61LPUK31,Flexible Card Line Processing Unit(LPUF-21,2 sub-slots) B	5.0

Table 6-7 Supported Modules for Quidway@CX600/ATN Series—Cisco ANA Version 3.7.2 and 3.7.3 (Continued)

Module Name	ANA Version	Module Description	DP Version
CR56RPUA	3.7.2/3.7.3	CX600,CX61SRU40A4,Switch and Route Processing Unit A4(Including 1*2G Memory and 1*1G CF Card)	5.0
CR57FRA40A	3.7.2/3.7.3	CX600,CX61SRU40A4,Switch and Route Processing Unit A4(Including 1*2G Memory and 1*1G CF Card)	5.0
CR57SFU40B	3.7.2/3.7.3	CX600,CX61SFU40C1,40Gbps Switch Fabric Unit C	5.0
CX67MPUG	3.7.2/3.7.3	CX600,CX67MPUG0,Main Processing Unit G(Including 1*1G CF Card)	5.0
CX67L2XX	3.7.2/3.7.3		5.0
CX67DE1A0	3.7.2/3.7.3	16-Port E1(120ohm) Flexible Interface Card (FIC)	5.0
CX67E8GFA	3.7.2/3.7.3	8-Port 100/1000Base-X-SFP High-speed Interface Card A (HIC, Supporting 1588v2)	5.0
CX67NPUI	3.7.2/3.7.3	CX600,CX67NPUI20,Network Processing Unit Integrated with 2-Port 10GBase LAN/WAN-XFP	5.0
CX67E8FE	3.7.2/3.7.3	8-Port 100Base-RJ45 Flexible Interface Card (FIC, Supporting 1588v2)	5.0
CX67C1CF0	3.7.2/3.7.3	1-Port Channelized OC3c/STM1c POS-SFP Flexible Interface Card (FIC)	5.0
AND1CXP	3.7.2/3.7.3	TND1CXP,System Control,Cross-connect and Multi-protocol Process Unit,1*1	5.0
AND1EG4F	3.7.2/3.7.3		5.0
AND1MD1B	3.7.2/3.7.3	TND1MD1B,32 Channels E1 Interface Board(120ohm) ,1*1	5.0
AND1EF8T	3.7.2/3.7.3	TND1EF8T, 8 Channels Fast Ethernet Electric Interface Board,1*1	5.0
CXP	3.7.2/3.7.3	TND1CXP,System Control,Cross-connect and Multi-protocol Process Unit,1*1	5.0
ANC1CXPB	3.7.2/3.7.3	ANC1CXPB,System Control,Cross-connect and Multi-protocol Process Unit(120ohm),1*1	5.0
AND1VIRCARD	3.7.2/3.7.3		5.0
AND1EG2	3.7.2/3.7.3	ATN	5.0

Quidway@CX600/ATN Series—Supported Technologies

The following technologies are supported by the Quidway@CX600/ATN Series in Cisco ANA Version 3.7.2 and 3.7.3:

- [IP, page 6-7](#)
- [Ethernet, page 6-8](#)
- [Hardware, page 6-8](#)
- [Routing Protocols, page 6-9](#)
- [Serial, page 6-11](#)
- [LLDP, page 6-11](#)
- [VPN \(VRF\), page 6-12](#)

Quidway@CX600/ATN Series—Supported Service Events

Table 6-8 *Supported Service Events for Quidway@CX600/ATN Series—Cisco ANA Version 3.7.2 and 3.7.3*

Event Name	ANA Version	Expedited	DP Version
Link Down	3.7.2/3.7.3	N	5.0
Link Up	3.7.2/3.7.3	N	5.0

Supported Technologies on Huawei Devices

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

This section contains the following topics:

- [IP, page 6-7](#)
- [Ethernet, page 6-8](#)
- [Hardware, page 6-8](#)
- [Routing Protocols, page 6-9](#)
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- [VPN \(VRF\), page 6-12](#)

IP

Table 6-9 IP Attribute Support on Huawei Devices—Cisco ANA Version 3.7.2 and 3.7.3

Attribute	S9300-Series	CX600 and ATN
IMO Name—IPIInterface		
IP Address	Y	Y
Subnetwork Mask	Y	Y
Interface Name	Y	Y
IP Interface State	Y	Y
IMO Name—IRoutingEntity		
Routing Table	Y	Y
ARP Entity	Y	Y
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—IARPEntity		
Name	Y	Y
IP Address	Y	Y
MAC Address	Y	Y
Port		Y
Entity Type	Y	Y

Ethernet

Table 6-10 Ethernet Attribute Support on Huawei Devices—Cisco ANA Version 3.7.2 and 3.7.3

Attribute	S9300-Series CX600 and ATN	
IMO Name—IEthernet		
MAC Address	Y	Y

Hardware

Table 6-11 Hardware Attribute Support on Huawei Devices—Cisco ANA Version 3.7.2 and 3.7.3

Attribute	S9300-Series CX600 and ATN	
IMO Name—IChassis		
Description	Y	Y
Equipment Holder Type	Y	Y
Serial Number	Y	Y
IMO Name—IModule		
Module Name	Y	Y
Module Description	Y	Y
Software Version	Y	Y
Hardware Type + Version	Y	Y
Serial Number (soft property)	Y	Y
Fan Description		Y
Hardware version		Y
Power Supply Description		Y
Hardware version		Y
IMO Name—IManagedElement		
IP Address	Y	Y
Communication State	Y	Y
Investigation State	Y	Y
Element Category	Y	Y

Table 6-11 **Hardware Attribute Support on Huawei Devices—Cisco ANA Version 3.7.2 and 3.7.3 (Continued)**

Attribute	S9300-Series	CX600 and ATN
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

Routing Protocols

Table 6-12 **Routing Protocols Attribute Support on Huawei Devices—Cisco ANA Version 3.7.2 and 3.7.3**

Attribute	S9300-Series	CX600 and ATN
IMO Name—IIBgpNeighborEntry		
Remote Identifier		Y
Remote Address		Y
Remote Autonomous System		Y
Peer State		Y
Hold Time		Y
Keep Alive Time		Y
VrfName		Y
Address family		Y
IMO Name—IIOspfProcess		
Process Id		Y
OSPF Version		Y
Router Id		Y

Table 6-12 Routing Protocols Attribute Support on Huawei Devices—Cisco ANA Version 3.7.2 and 3.7.3 (Continued)

Attribute	S9300-Series	CX600 and ATN
IMO Name—IOSpfNeighbor		
Neighbor Id		Y
Outgoing Interface		Y
State		Y
Neighbor Interface Address		Y
Area Id		Y
IMO Name—IIOspfInterface		
Area Id		Y
Network Type		Y
Cost		Y
State		Y
Interface Address		Y
Interface name		Y
Type		Y
IF Proirity		Y
DR Id		Y
BDR Id		Y
IMO Name—ISpfTimers		
Schedule Delay		Y
Min Hold Time		Y
Max Wait Time		Y

Serial

Table 6-13 Serial Attribute Support on Huawei Devices—Cisco ANA Version 3.7.2 and 3.7.3

Attribute	S9300-Series	CX600 and ATN
IM0 Name—IPhysicalLayer		
Media Type	Y	Y
Maximum Speed	Y	Y
Is Internal Port	Y	Y
Discarded and Received Input Data Counters	Y	Y
Dropped and Forward Output Data Counters	Y	Y
Administrative Status	Y	Y
Operational Status	Y	Y
Last Changed	Y	Y
IANA Type	Y	Y

LLDP

Table 6-14 LLDP Attribute Support on Huawei Devices—Cisco ANA Version 3.7.2 and 3.7.3

Attribute	S9300-Series	CX600 and ATN
IM0 Name—ILLDPService		
status		Y
lldpAdvertisementsInterval		Y
lldpHoldTime		Y
lldpReinitialisationDelay		Y
localChassisID		Y
localSystemName		Y
IM0 Name—ILLDPNeighbor		
localPortName		Y

Table 6-14 LLDP Attribute Support on Huawei Devices—Cisco ANA Version 3.7.2 and 3.7.3

Attribute	S9300-Series	CX600 and ATN
remotePortDesc		Y
remoteChassisId		Y
remoteManagementIP		Y
localPortId		Y
remotePortId		Y
remoteSystemName		Y

VPN (VRF)

Table 6-15 VPN (VRF) Attribute Support on Huawei Devices—Cisco ANA Version 3.7.2 and 3.7.3

Attribute	S9300-Series	CX600 and ATN
IMO Name—IVrf		
Virtual Routing Table		Y
Exported Route Targets		Y
Imported Route Targets		Y
Route Distinguisher		Y
Name		Y
IMO Name—IVrfEntry		
Destination IP Subnet		Y
Next Hop IP Address		Y
Type		Y
Routing Protocol Type		Y
Outgoing Interface Name		Y
IMO Name—IMpBgp		
BGP Identifier		Y
Local Autonomous System		Y
BGP Neighbors		Y

