Support Information for DragonWave Devices

This chapter contains support information for Virtual Network Elements (VNEs) that manage DragonWave devices in Prime Network Version 4.0.

Note For more information about the objects and attributes described in this chapter, see Cisco *Prime Network 4.0 Supported Cisco VNEs, Cisco Prime Network 4.0 Supported Service Alarms, Cisco Prime Network 4.0 Supported System and Security Events*, and *Cisco Prime Network 4.0 Supported Technologies and Topologies* in the *Cisco Prime Network 4.0 Documentation Guide.*

This chapter contains the following topics:

DragonWave Horizon Compact Device (Packet Microwave System)

This section includes the following information about DragonWave Horizon Compact (Packet Microwave System) devices (for information on the NE types supported in Prime Network Version 4.0, see the DragonWave Horizon Compact Device (Packet Microwave System)):

This section contains the following topics:

Horizon Compact—Supported Software Versions

Table 5-1   Supported Software Versions for Horizon Compact—Prime Network Version 4.0

Software Version	Product Version	DP Version
1.03.02	3.7.2/3.7.3	5.0
1.04.05	3.7.2/3.7.3	5.0

Horizon Compact—Supported Topologies

Table 5-2   Supported Topologies for Horizon Compact—Prime Network Version 4.0

Topology Type	Link Type	Product Version	DP Version
Physical Layer	Physical Layer	3.7.2/3.7.3	5.0
Generic Port	Generic Port[1]	3.7.2/3.7.3	7.0

1.Currently it is supported by using generic methodology.

Horizon Compact—Supported Modules

Table 5-3   Supported Modules for Horizon Compact—Prime Network Version 4.0

Module Name	Product Version	Module Description	DP Version
Horizon Compact	3.7.2/3.7.3	Horizon Compact is not a modular device. It contains 2 Ethernet ports and 1 Wireless port.	5.0

Horizon Compact—Supported Technologies

The following technologies are supported by the Horizon Compact devices in Prime Network Version 4.0:

- Ethernet, page 5-7
- Hardware, page 5-8
- Serial, page 5-9
- Generic Port, page 5-10
- Local Switching, page 5-11

Horizon Compact—Supported Service Events

Table 5-4   Supported Service Events for Horizon Compact—Prime Network Version 4.0

Event Name	Product Version	Expedited	DP Version
Link up	3.7.2/3.7.3	N	5.0
Device Unsupported	3.7.2/3.7.3	N	5.0
Port down due to admin	3.7.2/3.7.3	N	5.0
Port down due to oper	3.7.2/3.7.3	N	5.0
Device Managed	3.7.2/3.7.3	N	5.0
Management Unreachable	3.7.2/3.7.3	N	5.0
Device Partially Managed	3.7.2/3.7.3	N	5.0
Port up	3.7.2/3.7.3	N	5.0

DragonWave Horizon Compact Plus Device (Packet Microwave System)

This section includes the following information about DragonWave Horizon Compact Plus (Packet Microwave System) devices (for information on the NE types supported in Prime Network Version 4.0, see the DragonWave Horizon Compact Plus Device (Packet Microwave System):

This section contains the following topics:

- Horizon Compact Plus—Supported Software Versions, page 5-3
- Horizon Compact Plus—Supported Topologies, page 5-4
- Horizon Compact Plus—Supported Modules, page 5-4
- Horizon Compact Plus—Supported Technologies, page 5-4
- Horizon Compact Plus—Supported Service Events, page 5-4

Horizon Compact Plus—Supported Software Versions

Table 5-5   Supported Software Versions for Horizon Compact Plus—Prime Network Version 4.0

Software Version	Product Version	DP Version
1.0.0	3.7.2/3.7.3	8.0
1.1.0	4.0	1308
1.2.0	4.0	1308

Horizon Compact Plus—Supported Topologies

Table 5-6   Supported Topologies for Horizon Compact Plus—Prime Network Version 4.0

Topology Type	Link Type	Product Version	DP Version
Physical Layer	Physical Layer	3.7.2/3.7.3	8.0
Generic Port	Generic Port[1]	3.7.2/3.7.3	8.0

1.Currently it is supported by using LLDP technology.

Horizon Compact Plus—Supported Modules

Table 5-7   Supported Modules for Horizon Compact Plus—Prime Network Version 4.0

Module Name	Product Version	Module Description	DP Version
Horizon Compact Plus	3.7.2/3.7.3	Horizon Compact Plus is not a modular device. It contains Ethernet ports and Wireless ports.	8.0

Horizon Compact Plus—Supported Technologies

The following technologies are supported by the Horizon Compact devices in Prime Network Version 4.0:

- Ethernet, page 5-7
- Hardware, page 5-8
- Serial, page 5-9
- Generic Port, page 5-10
- Local Switching, page 5-11
- LLDP, page 5-12
- Ethernet OAM, page 5-13

Horizon Compact Plus—Supported Service Events

Table 5-8   Supported Service Events for Horizon Compact Plus—Prime Network Version 4.0

Event Name	Product Version	Expedited	DP Version
Link up	3.7.2/3.7.3	N	8.0
Device Unsupported	3.7.2/3.7.3	N	8.0

Table 5-8   Supported Service Events for Horizon Compact Plus—Prime Network Version 4.0

Event Name	Product Version	Expedited	DP Version
Port down due to admin	3.7.2/3.7.3	N	8.0
Port down due to oper	3.7.2/3.7.3	N	8.0
Device Managed	3.7.2/3.7.3	N	8.0
Management Unreachable	3.7.2/3.7.3	N	8.0
Device Partially Managed	3.7.2/3.7.3	N	8.0
Port up	3.7.2/3.7.3	N	8.0

DragonWave Horizon Quantum Device (Packet Microwave System)

This section includes the following information about DragonWave Horizon Quantum (Packet Microwave Device) devices (for information on the NE types supported in Prime Network Version 4.0, see the DragonWave Horizon Quantum Device (Packet Microwave System)):

This section contains the following topics:

- Horizon Quantum—Supported Software Versions, page 5-5
- Horizon Quantum—Supported Topologies, page 5-5
- Horizon Quantum—Supported Modules, page 5-6
- Horizon Quantum—Supported Technologies, page 5-6
- Horizon Quantum—Supported Service Events, page 5-6

Horizon Quantum—Supported Software Versions

Table 5-9   Supported Software Versions for Horizon Quantum—Prime Network Version 4.0

Software Version	Product Version	DP Version
1.1.0	3.7.2/3.7.3	5.0

Horizon Quantum—Supported Topologies

Table 5-10   Supported Topologies for Horizon Quantum—Prime Network Version 4.0

Topology Type	Link Type	Product Version	DP Version
Physical Layer	Physical Layer	3.7.2/3.7.3	5.0
Generic Port	Generic Port[1]	3.7.2/3.7.3	7.0

1. Currently it is supported by using Generic methodology.

Horizon Quantum—Supported Modules

Table 5-11   Supported Modules for Horizon Quantum—Prime Network Version 4.0

Module Name	Product Version	Module Description	DP Version
Horizon Quantum	3.7.2/3.7.3	Horizon Quantum is not a modular device. It contains 8 Ethernet ports and 2 wireless ports.	5.0
Horizon Quantum (Radio)	3.7.2/3.7.3	Horizon Quantum is a dummy module that contains the sub modules for Radio properties.	8.0

Horizon Quantum—Supported Technologies

The following technologies are supported by the Horizon Quantum devices in Prime Network Version 4.0:

- Ethernet, page 5-7
- Hardware, page 5-8
- Serial, page 5-9
- Generic Port, page 5-10
- Local Switching, page 5-11

Horizon Quantum—Supported Service Events

Table 5-12   Supported Service Events for Horizon Quantum—Prime Network Version 4.0

Event Name	Product Version	Expedited	DP Version
Link up	3.7.2/3.7.3	N	5.0
Device Unsupported	3.7.2/3.7.3	N	5.0
Port down due to admin	3.7.2/3.7.3	N	5.0
Port down due to oper	3.7.2/3.7.3	N	5.0
Device Unsupported	3.7.2/3.7.3	N	5.0

Table 5-12   Supported Service Events for Horizon Quantum—Prime Network Version 4.0

Event Name	Product Version	Expedited	DP Version
Management Unreachable	3.7.2/3.7.3	N	5.0
Device Partially Managed	3.7.2/3.7.3	N	5.0
Port up	3.7.2/3.7.3	N	5.0

Supported Technologies on DragonWave Devices

The following sections list the objects and attributes that are supported on DragonWave devices in Prime Network Version 4.0 per technology:

This section contains the following topics:

Ethernet

The following table (Table 5-13) lists the ethernet attributes that are supported on DragonWave devices in Prime Network Version 4.0 per technology:

Table 5-13   Ethernet Attribute Support on DragonWave Devices—Prime Network Version 4.0

Attribute	Horizon Compact	Horizon Compact Plus	Horizon Quantum
IMO Name—IEthernet			
MAC Address	Y	Y	Y
Duplex Mode	Y	Y	Y
IANA Type	Y	Y	
AutoNegotiate	Y	Y	Y

Hardware

Table 5-14 lists the hardware attributes that are supported on DragonWave devices in Prime Network Version 4.0 per technology:

Table 5-14   Hardware Attribute Support on DragonWave Devices—Prime Network Version 4.0

Attribute	Horizon Compact	Horizon Compact Plus	Horizon Quantum
IMO Name—IChassis			
Description	Y	Y	Y
Serial Number	Y	Y	Y
IMO Name—IModule			
Module Name	Y	Y	Y
Module Description	Y	Y	Y
Software Version	Y	Y	Y
Hardware Type & Version	Y	Y	Y
Radio Description (Soft Property)			Y
Radio Oper Status (Soft Property)			Y
Radio Transmit Power (Soft Property)			Y
Radio Power Option (Soft Property)			Y
Radio Actual Transmit Power (Soft Property)			Y
Antenna1Tilt (Soft Property)			Y
Antenna2Tilt (Soft Property)			Y
IMO Name—IManagedElement			
IP Address	Y	Y	Y
Communication State	Y	Y	Y
Investigation State	Y	Y	Y
Element Category	Y	Y	Y
Element Type and Key	Y	Y	Y
Device Name	Y	Y	Y
Device Series	Y	Y	Y
System Name	Y	Y	Y

Table 5-14   Hardware Attribute Support on DragonWave Devices—Prime Network Version 4.0

Attribute	Horizon Compact	Horizon Compact Plus	Horizon Quantum
System Description	Y	Y	Y
Up Time	Y	Y	Y
Software Version	Y	Y	Y
Vendor Identity	Y	Y	Y
Sys Contact	Y	Y	Y
Sys Location	Y	Y	Y
IMO Name—IOperatingSystem			
osVersion	Y	Y	Y
bootSoftware	Y	Y	Y
bootLdrSoftware	Y	Y	Y
isK9Sec	Y	Y	Y
cwfamily	Y	Y	Y
IMO Name—ILogicalFile			
fileSize	Y	Y	Y
typeOfFile	Y	Y	Y
fullPathName	Y	Y	Y

Serial

Table 5-15 lists the serial attributes that are supported on DragonWave devices in Prime Network Version 4.0 per technology:

Table 5-15   Serial Attribute Support on DragonWave Devices—Prime Network Version 4.0

Attribute	Horizon Compact	Horizon Compact Plus	Horizon Quantum
IMO Name—IPhysicalLayer			
Media Type	Y	Y	Y
Maximum Speed	Y	Y	Y

Table 5-15   Serial Attribute Support on DragonWave Devices—Prime Network Version 4.0

Attribute	Horizon Compact	Horizon Compact Plus	Horizon Quantum
Is Internal Port			Y
Administrative Status	Y	Y	Y
Operational Status	Y	Y	Y
IANA Type	Y	Y	Y
Port Alias	Y	Y	Y
Location	Y	Y	Y
Connector Description	Y	Y	Y
Status	Y	Y	Y
Managed	Y	Y	Y

Generic Port

The following table (Table 5-16) lists the generic port attributes that are supported on DragonWave devices in Prime Network Version 4.0 per technology:

Table 5-16   Generic Port Attribute Support on DragonWave Devices—Prime Network Version 4.0

Attribute	Horizon Compact	Horizon Compact Plus	Horizon Quantum
IMO Name—IDataLinkLayer			
ModemChannelizedRSL (soft property)	Y	Y	Y
ModemModulationType (soft property)	Y	Y	Y
ModemSNR (soft property)	Y	Y	Y
ModemEbToNoiseRatio (soft property)	Y	Y	Y
ModemRxBlocksOK (soft property)	Y	Y	Y

Table 5-16   Generic Port Attribute Support on DragonWave Devices—Prime Network Version 4.0 (Continued) (Continued)

Attribute	Horizon Compact	Horizon Compact Plus	Horizon Quantum
ModemRxBlocksError (soft property)	Y	Y	Y
ModemEqualizerStress (soft property)	Y	Y	Y
RadioTransmitPower (soft property)	Y	Y	
RadioOperStatus (soft property)	Y	Y	
RadioTemperature (soft property)	Y	Y	
RadioProgrammedAntennaDi-ameter (soft property)	Y	Y	
ModemRxFramesOK (soft property)	Y	Y	
ModemRxFramesError (soft property)	Y	Y	
Associated Radio			Y
Associated Radio Index			Y
RadioDescription (soft property)		Y	
RadioActualTransmitPower (soft property)		Y	

Local Switching

The following table (Table 5-17) lists the local switching attributes that are supported on DragonWave devices in Prime Network Version 4.0 per technology:

Table 5-17   Local Switching Attribute Support on DragonWave Devices—Prime Network Version 4.0

Attribute	Horizon Compact	Horizon Compact Plus	Horizon Quantum
IMO Name—ILocalSwitchingEntry			
Local Switching Entry Key	Y	Y	Y
Local Switching Entry Status	Y	Y	Y
Segment 1	Y	Y	Y
Segment 1 Port Name	Y	Y	Y
Segment 1 Status	Y	Y	Y
Segment 2	Y	Y	Y
Segment 2 Port Name	Y	Y	Y
Segment 2 Status	Y	Y	Y

LLDP

The following table (Table 5-18) lists the LLDP attributes that are supported on DragonWave devices in Prime Network Version 4.0 per technology:

Table 5-18   LLDP Attribute Support on DragonWave Devices—Prime Network Version 4.0

Attribute	Horizon Compact	Horizon Compact Plus	Horizon Quantum
IMO Name—ILLDPService			
status		Y	
lldpAdvertisementsInterval		Y	
lldpHoldTime		Y	
lldpReinitialisationDelay		Y	
localChassisID		Y	
localSystemName		Y	

Table 5-18   LLDP Attribute Support on DragonWave Devices—Prime Network Version 4.0 (Con-

Attribute	Horizon Compact	Horizon Compact Plus	Horizon Quantum
IMO Name—ILLDPNeighbor			
localPortName		Y	
remotePortDesc		Y	
remoteChassisId		Y	
localPortId		Y	
remotePortId		Y	
remoteSystemName		Y	

Ethernet OAM

The following table (Table 5-19) lists the ethernet OAM attributes that are supported on DragonWave devices in Prime Network Version 4.0 per technology:

Table 5-19   Ethernet OAM Attribute Support on DragonWave Devices—Prime Network Version 4.0

Attribute	Horizon Compact	Horizon Compact Plus	Horizon Quantum
IMO Name—IOAMData			
adminState		Y	
linkFaultAction		Y	
dyingGaspAction		Y	
criticalEventAction		Y	
mode		Y	
unidirectional		Y	
linkMonitor		Y	
remoteLoopback		Y	
portStatus		Y	
loopbackStatus		Y	

Table 5-19   *Ethernet OAM Attribute Support on DragonWave Devices—Prime Network Version 4.0 (Continued) (Continued)*

Attribute	Horizon Compact	Horizon Compact Plus	Horizon Quantum
remoteData		Y	
name		Y	
ethernetPort		Y	
IMO Name—IOAMRemoteData			
macAddress		Y	
mode		Y	
unidirection		Y	
linkMonitor		Y	
remoteLoopback		Y	