



CHAPTER 8

Support Information for Tellabs Devices

This chapter contains support information for Virtual Network Elements (VNEs) that manage Tellabs devices in Cisco ANA Version 3.7.2/3.7.3. For more information about the objects and attributes described in this chapter, see the [Cisco Active Network Abstraction 3.7.2/3.7.3 Reference Guide](#).

This chapter contains the following topics:

- [Tellabs 8840 Multiservice Router, page 8-1](#)
- [Supported Technologies on Tellabs Devices, page 8-5](#)

Tellabs 8840 Multiservice Router

This section includes the following information about Tellabs 8840 Multiservice Router devices (for information on the NE types supported in Cisco ANA Version 3.7.2/3.7.3, see [Tellabs 8840 Multiservice Router, page 8-1](#)):

- [Tellabs 8840 Multiservice Router—Supported Software Versions, page 8-1](#)
- [Tellabs 8840 Multiservice Router—Supported Topologies, page 8-2](#)
- [Tellabs 8840 Multiservice Router—Supported Modules, page 8-2](#)
- [Tellabs 8840 Multiservice Router—Supported Technologies, page 8-3](#)
- [Tellabs 8840 Multiservice Router—Supported Service Events, page 8-3](#)

Tellabs 8840 Multiservice Router—Supported Software Versions

Table 8-1 **Supported Software Versions for Tellabs 8840 Multiservice Router—Cisco ANA Version 3.7.2/3.7.3**

Software Version	ANA Version	DP Version
TMOS 7.0.0.3	3.7.2/3.7.3	6.0
TMOS 8.1.0.1	3.7.2/3.7.3	6.0
TMOS 8.1.0.1a	3.7.2/3.7.3	6.0

Tellabs 8840 Multiservice Router—Supported Topologies

Table 8-2 *Supported Topologies for Tellabs 8840 Multiservice Router—Cisco ANA Version 3.7.2/3.7.3*

Topology Type	Link Type	ANA Version	DP Version
BGP	BGP	3.7.2/3.7.3	6.0
Ethernet	Ethernet	3.7.2/3.7.3	6.0
MPLS	MPLS	3.7.2/3.7.3	6.0
Physical Layer	Physical Layer	3.7.2/3.7.3	6.0

Tellabs 8840 Multiservice Router—Supported Modules

Table 8-3 *Supported Modules for Tellabs 8840 Multiservice Router—Cisco ANA Version 3.7.2/3.7.3*

Module Name	ANA Version	Module Description	DP Version
Tellabs 8840 Multi-Service Router Base Unit	3.7.2/3.7.3	Tellabs Multi-Service Router 8840	6.0
81.88X0-ULC-2	3.7.2/3.7.3	Tellabs 88X0 9M Universal Line Card (ULC)	6.0
Switch Control Card	3.7.2/3.7.3	Switch Control Card	6.0
81.8800-PLM 003C-30	3.7.2/3.7.3	4 PORT Oc-3c(155Mbps) concatenated long reach 40kms	6.0
81.8800-PLM 012C-20	3.7.2/3.7.3	4 PORT 622Mbps OC-12c MS SMF IR concatenated intermediate 15 kms	6.0
81.8800-PLM048C-10	3.7.2/3.7.3	1 PORT 2.5Gbps OC-48c MS SMF IR concatenated intermediate 2 kms	6.0
81.8800-PLMGE-20	3.7.2/3.7.3	4port Gigabit Ethernet PLM - 1000BaseLX (Includes 4 LC/SFP optics) 550 meters	6.0
81.8800-PLM10GE-40	3.7.2/3.7.3	1port 10Gigabit Ethernet PLM SMF LR(LAN PHY) 40Kms	6.0
4 port Gigabit Ethernet PLM LX	3.7.2/3.7.3	4 port Gigabit Ethernet PLM LX	6.0
2 port OC-3STM-1 SMF IR	3.7.2/3.7.3	2 port OC-3STM-1 SMF IR	6.0

Table 8-3 **Supported Modules for Tellabs 8840 Multiservice Router—Cisco ANA Version 3.7.2/3.7.3 (Continued)**

Module Name	ANA Version	Module Description	DP Version
4port OC-3/STM-1 TDM MSPLM SMFIR	3.7.2/3.7.3	4port OC-3/STM-1 TDM MSPLM SMFIR	6.0
1port OC-48C/STM-16c TDM MSPLM SMF IR	3.7.2/3.7.3	1port OC-48C/STM-16c TDM MSPLM SMF IR	6.0
1 port 9M 10GiG ENET SMF LR	3.7.2/3.7.3	1 port 9M 10GiG ENET SMF LR	6.0

Tellabs 8840 Multiservice Router—Supported Technologies

The following technologies are supported by the Tellabs 8840 Multiservice Router in Cisco ANA Version 3.7.2/3.7.3:

- [IP, page 8-5](#)
- [Routing Protocols, page 8-6](#)
- [Ethernet, page 8-7](#)
- [MPLS, page 8-8](#)
- [Hardware, page 8-8](#)
- [Serial, page 8-9](#)
- [ATM, page 8-10](#)
- [SONET/SDH, page 8-11](#)

Tellabs 8840 Multiservice Router—Supported Service Events

Table 8-4 **Supported Service Events for Tellabs 8840 Multiservice Router—Cisco ANA Version 3.7.2/3.7.3**

Event Name	ANA Version	Expedited	DP Version
Primary HSRP Interface Active/Inactive	3.7.2/3.7.3	N	6.0
Secondary HSRP Interface Active/Inactive	3.7.2/3.7.3	N	6.0
All IP Interfaces Down / Active IP Interfaces Found	3.7.2/3.7.3	N	6.0
Interface Status Down/Up	3.7.2/3.7.3	N	6.0
Card In/Out	3.7.2/3.7.3	N	6.0

Table 8-4 **Supported Service Events for Tellabs 8840 Multiservice Router—Cisco ANA Version 3.7.2/3.7.3 (Continued)**

Event Name	ANA Version	Expedited	DP Version
Link Down/Up	3.7.2/3.7.3	N	6.0
Device Unreachable	3.7.2/3.7.3	N	6.0
CPU Over Utilized	3.7.2/3.7.3	N	6.0
Memory Over Utilized	3.7.2/3.7.3	N	6.0
Device Unsupported	3.7.2/3.7.3	N	6.0
Discard Packets	3.7.2/3.7.3	N	6.0
Dropped Packets	3.7.2/3.7.3	N	6.0
Module Unsupported	3.7.2/3.7.3	N	6.0
Port Flapping	3.7.2/3.7.3	N	6.0
Port Down	3.7.2/3.7.3	N	6.0
Rx Over Utilized	3.7.2/3.7.3	N	6.0
Tx Over Utilized	3.7.2/3.7.3	N	6.0
VPN Leak	3.7.2/3.7.3	N	6.0
Cloud Problem	3.7.2/3.7.3	N	6.0
Broken LSP Discovered	3.7.2/3.7.3	N	6.0
MPLS Black Hole	3.7.2/3.7.3	N	6.0
Layer 2 Tunnel Down	3.7.2/3.7.3	N	6.0
MPLS TE Tunnel Down/Flapping	3.7.2/3.7.3	N	6.0
BGP Neighbor Down	3.7.2/3.7.3	N	6.0
Card Up/Down	3.7.2/3.7.3	N	6.0

Table 8-4 **Supported Service Events for Tellabs 8840 Multiservice Router—Cisco ANA Version 3.7.2/3.7.3 (Continued)**

Event Name	ANA Version	Expedited	DP Version
VSI Up/Down	3.7.2/3.7.3	N	6.0
VSI Admin Down	3.7.2/3.7.3	N	6.0
EFP Up/Down	3.7.2/3.7.3	N	6.0
EFP Admin Down	3.7.2/3.7.3	N	6.0
EFP down due to error disabled	3.7.2/3.7.3	N	6.0
Vlan Tagged Interface Up/Down	3.7.2/3.7.3	N	6.0
Vlan Tagged Interface AdminDown	3.7.2/3.7.3	N	6.0

Supported Technologies on Tellabs Devices

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

- [IP, page 8-5](#)
- [Routing Protocols, page 8-6](#)
- [Ethernet, page 8-7](#)
- [MPLS, page 8-8](#)
- [Hardware, page 8-8](#)
- [Serial, page 8-9](#)
- [ATM, page 8-10](#)
- [SONET/SDH, page 8-11](#)

IP

Table 8-5 **IP Attribute Support on Tellabs 8840 Multiservice Router Devices—Cisco ANA Version 3.7.2/3.7.3**

Attributes	MSE8840
IMO Name—IPIInterface	

Table 8-5 *IP Attribute Support on Tellabs 8840 Multiservice Router Devices—Cisco ANA Version 3.7.2/3.7.3 (Continued)*

	MSE8840
Attributes	
IP Address	Y
Subnetwork Mask	Y
IP Interface Addresses Array	Y
Interface Name	Y
IP Interface State	Y
Interface Description	Y
IMO Name—IRoutingEntity	
Routing Table	Y
ARP Entity	Y
Name	Y
Logical Sons	Y
IMO Name—IRoutingEntry	
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

Routing Protocols

Table 8-6 *Routing Protocols Attribute Support on Tellabs 8840 Multiservice Router Devices—Cisco ANA Version 3.7.2/3.7.3*

	MSE8840
Attributes	
IMO Name—IBgpNeighborEntry	

Table 8-6 Routing Protocols Attribute Support on Tellabs 8840 Multiservice Router Devices—Cisco ANA Version 3.7.2/3.7.3 (Continued)

	MSE8840
Attributes	
Remote Identifier	Y
Remote Address	Y
Remote Autonomous System	Y
Peer State	Y
Hold Time	Y
Keep Alive Time	Y
IMO Name—IOSpfEntry	
Area Identifier	Y
IP Address	Y
Type	Y
Administrative Status	Y
Ospf Entry State	Y

Ethernet

Table 8-7 Ethernet Attribute Support on Tellabs 8840 Multiservice Router Devices—Cisco ANA Version 3.7.2/3.7.3

		MSE8840
Attribute		
IMO Name—IEthernet		
MAC Address	Y	
Duplex Mode	Y	
isElmiEnabled	Y	

MPLS

Table 8-8 *MPLS Attribute Support on Tellabs 8840 Multiservice Router Devices—Cisco ANA Version 3.7.2/3.7.3*

		MSE8840
Attributes		
IMO Name—IldpPeer		
Peer Identification		Y
Transport Address		Y
Distribution Method		Y
Protocol Type		Y
Path Vector Limi		Y
Session Status		Y
Protocol Version		Y
Hold Time		Y
Keep Alive Time		Y
Peer Discovery Sources		Y

Hardware

Table 8-9 *Physical Equipment Attribute Support on Tellabs 8840 Multiservice Router Devices—Cisco ANA Version 3.7.2/3.7.3*

		MSE8840
Attributes		
IMO Name—IChassis		
Description	Y	
Equipment Holder Type	Y	
Serial Number	Y	
IMO Name—IModule		
Module Name	Y	
Module Description	Y	
Software Version	Y	
Operational Status	Y	
Hardware Type & Version	Y	
Serial Number (soft property)	Y	
Slots Number	Y	
IMO Name—IManagedElement		

Table 8-9 Physical Equipment Attribute Support on Tellabs 8840 Multiservice Router Devices—Cisco ANA Version 3.7.2/3.7.3 (Continued)

Attributes	MSE8840
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
Sys Contact	Y
Sys Location	Y

Serial

Table 8-10 Serial Attribute Support on Tellabs 8840 Multiservice Router Devices—Cisco ANA Version 3.7.2/3.7.3

Attributes	MSE8840
IMO Name—IPhysicalLayer	
Media Type	Y
Clocking Source	Y
Maximum Speed	Y
Is Internal Port	Y
Discarded and Received Input Data Counters	Y
Dropped and Forward Output Data Counters	Y
Administrative Status	Y
Operational Status	Y
Last Changed	Y

Table 8-10 **Serial Attribute Support on Tellabs 8840 Multiservice Router Devices—Cisco ANA Version 3.7.2/3.7.3 (Continued)**

Attributes	MSE8840
IANA Type	Y
Port Alias	Y
Location	Y
Sending Alarms	Y
Connector Description	Y
Status	Y
Managed	Y

ATM

Table 8-11 **ATM Attribute Support on Tellabs 8840 Multiservice Router Devices—Cisco ANA Version 3.7.2/3.7.3**

Attributes	MSE8840
IMO Name—IAtmTrafficDescriptor	
Traffic Descriptor Type	Y
Service Category	Y
Cell Loss Priority	Y
Cell Delay Variation	Y
Cell Delay Variation Tolerance	Y
Index	Y

SONET/SDH

Table 8-12 *SONET/SDH Attribute Support on Tellabs 8840 Multiservice Router Devices—Cisco ANA Version 3.7.2/3.7.3*

	MSE8840
Attributes	
IMO Name—ISonetSdh	
Clocking	Y

