



CHAPTER 3

Cisco 7600 MIB Specifications

This chapter describes the Management Information Base (MIB) on the Cisco 7600 Series router. It includes the following sections:

- [Cisco 7600 MIBs, page 3-1](#)
- [CISCO 7600 MIB Categories, page 3-1](#)
 - [Supported and Verified MIBs, page 3-1](#)
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 - [Unverified or Unsupported MIBs, page 3-2](#)
- [MIB Version String Description, page 3-2](#)

Cisco 7600 MIBs

Each MIB description lists relevant constraints about the MIB's implementation on the Cisco 7600 router platform. Any objects not listed in a table are implemented as defined in the MIB. For detailed MIB descriptions, see the standard MIB.



Note

Not all MIBs included in a Cisco IOS software release are fully supported by the router. Some MIBs are not supported at all. Other MIBs might work, but they have not been tested on the router. In addition, some MIBs are deprecated but cannot be removed from the software. When a MIB is included in the image, this does not necessarily mean it is supported by the Cisco 7600 platform.

To determine which MIBs are included in other releases, see the [“Using Cisco IOS MIB Tools” section on page 2-1](#).

CISCO 7600 MIB Categories

The MIBs in the c7600 Image on the Cisco 7600 Series router are categorized into three types:

Supported and Verified MIBs

The MIB exists in the image, the code is implemented, and Cisco has verified that all the supported objects work properly. These MIBs are tested for Cisco 7600 router.

Supported and Unverified MIBs

The MIB exists in the image, the code is implemented, but we have not verified if it is working properly. In other words, the user may get something if they query the MIB. However, the information may be correct or incorrect because the MIB has not been tested. These MIBs are not tested for Cisco 7600 router support.

Unverified or Unsupported MIBs

The MIB exists in the image but is either not tested or not supported. These MIBs are neither tested nor supported for Cisco 7600 routers.

MIB Version String Description

The MIB version string indicates the date and time that the module was most recently modified. The format is YYMMDDHHMMZ or YYYYMMDDHHMMZ where

- YY - last 2 digits of the year (only years between 1900-1999)
- YYYY - all 4 digits of the year (any year)
- MM - month (01 through 12)
- DD - day of the month (01 through 31)
- HH - hours (00 through 23)
- MM - minutes (00 through 59)
- Z - denotes UTC/GMT (the ASCII character Z) Coordinated Universal Time (UTC, formerly Greenwich Mean Time). This datatype stores the datetime fields YEAR, MONTH, DAY, HOUR, MINUTE, SECOND, TIMEZONE_HOUR, and TIMEZONE_MINUTE.



Note For example, 9592192015Z and 199509122015Z represent 8:15 GMT on 19 February 1995. Years after 1999 use the four digit format. Years 1900-1999 may use the 2 or 4 digit format.



Note In the following table you might see the term *Revision not available*. This term refers to the MIB module that does not have a recorded time stamp indicating the latest modification.

MIBs in 7600 Series Routers

Table 3-1 lists the MIBs in 7600 Series Routers:

Table 3-1 MIBs in 7600 Series Routers

MIB	Supported and Verified	Supported and Unverified	Unsupported or Unverified	Not in Image
ATM-MIB				
• 12.2(18)SXF3	9406072245			
• 12.2(33)SRA	9406072245			

Table 3-1 MIBs in 7600 Series Routers (continued)

MIB	Supported and Verified	Supported and Unverified	Unsupported or Unverified	Not in Image
• 12.2(33)SRB	9406072245			
• 12.2(33)SRC	9406072245			
BGP4-MIB				
• 12.2(18)SXF3	9405050000Z			
• 12.2(33)SRA	9405050000Z			
• 12.2(33)SRB	9405050000Z			
• 12.2(33)SRC	9405050000Z			
BRIDGE-MIB				
• 12.2(18)SXF3	Revision not available			
• 12.2(33)SRA	Revision not available			
• 12.2(33)SRB	Revision not available			
• 12.2(33)SRC	Revision not available			
CISCO-802-TAP-MIB				
• 12.2(18)SXF3				Y
• 12.2(33)SRA				Y
• 12.2(33)SRB		200403110000Z		
• 12.2(33)SRC		200403110000Z		
CISCO-AAA-SESSION-MIB				
• 12.2(18)SXF3			9911160000Z	
• 12.2(33)SRA			9911160000Z	
• 12.2(33)SRB			9911160000Z	
• 12.2(33)SRC			200603210000Z	
CISCO-AAL5-MIB				
• 12.2(18)SXF3	200309220000Z			
• 12.2(33)SRA	200309220000Z			
• 12.2(33)SRB	200309220000Z			
• 12.2(33)SRC	200309220000Z			
CISCO-ACCESS-ENV-MON-MIB				
• 12.2(18)SXF3			9808050000Z	
• 12.2(33)SRA			9808050000Z	
• 12.2(33)SRB			9808050000Z	
• 12.2(33)SRC			9808050000Z	

Table 3-1 MIBs in 7600 Series Routers (continued)

MIB	Supported and Verified	Supported and Unverified	Unsupported or Unverified	Not in Image
CISCO-ALPS-MIB				
• 12.2(18)SXF3	200001280000Z			
• 12.2(33)SRA				Y
• 12.2(33)SRB				Y
• 12.2(33)SRC				Y
CISCO-ASPP-MIB				
• 12.2(18)SXF3			9508210000Z	
• 12.2(33)SRA				Y
• 12.2(33)SRB				Y
• 12.2(33)SRC				Y
CISCO-ATM-EXT-MIB				
• 12.2(18)SXF3	9706200000Z			
• 12.2(33)SRA	200301060000			
• 12.2(33)SRB	200301060000			
• 12.2(33)SRC	200301060000			
CISCO-ATM-PVC-MIB				
• 12.2(18)SXF3			9711180000Z	
• 12.2(33)SRA			9711180000Z	
• 12.2(33)SRB			9711180000Z	
• 12.2(33)SRC			9711180000Z	
CISCO-ATM-PVC-TRAP-EXTN-MIB				
• 12.2(18)SXF3				Y
• 12.2(33)SRA				Y
• 12.2(33)SRB				Y
• 12.2(33)SRC			200303240000Z	
CISCO-ATM-QOS-MIB				
• 12.2(18)SXF3				Y
• 12.2(33)SRA				Y
• 12.2(33)SRB				Y
• 12.2(33)SRC			200206100000Z	
CISCO-BCP-MIB				
• 12.2(18)SXF3	200408310000Z			
• 12.2(33)SRA	200408310000Z			
• 12.2(33)SRB	200408310000Z			
• 12.2(33)SRC	200408310000Z			

Table 3-1 MIBs in 7600 Series Routers (continued)

MIB	Supported and Verified	Supported and Unverified	Unsupported or Unverified	Not in Image
CISCO-BGP-POL-ICY-ACCOUNTING-MIB				
• 12.2(18)SXF3	9912170000Z			
• 12.2(33)SRA	200207260000Z			
• 12.2(33)SRB	200207260000Z			
• 12.2(33)SRC	200207260000Z			
CISCO-BGP4-MIB				
• 12.2(18)SXF3	200108130000Z			
• 12.2(33)SRA	200302240000Z			
• 12.2(33)SRB	200302240000Z			
• 12.2(33)SRC	200302240000Z			
CISCO-BRIDGE-EXT-MIB				
• 12.2(18)SXF3			200408230000Z	
• 12.2(33)SRA			200408230000Z	
• 12.2(33)SRB			200408230000Z	
• 12.2(33)SRC			200408230000Z	
CISCO-BSC-MIB				
• 12.2(18)SXF3			9701250000Z	
• 12.2(33)SRA				Y
• 12.2(33)SRB				Y
• 12.2(33)SRC				Y
CISCO-BSTUN-MIB				
• 12.2(18)SXF3			9701220000Z	
• 12.2(33)SRA				Y
• 12.2(33)SRB				Y
• 12.2(33)SRC				Y
CISCO-BULK-FILE-MIB				
• 12.2(18)SXF3	9810291700Z			
• 12.2(33)SRA	9810291700Z			
• 12.2(33)SRB	9810291700Z			
• 12.2(33)SRC		200108220000Z		
CISCO-CABLE-DIAG-MIB				
• 12.2(18)SXF3	200409130000Z			
• 12.2(33)SRA	200409130000Z			
• 12.2(33)SRB	200409130000Z			
• 12.2(33)SRC	200409130000Z			

Table 3-1 MIBs in 7600 Series Routers (continued)

MIB	Supported and Verified	Supported and Unverified	Unsupported or Unverified	Not in Image
CISCO-CALLHOME-MIB				
• 12.2(18)SXF3				Y
• 12.2(33)SRA				Y
• 12.2(33)SRB				Y
• 12.2(33)SRC	200704060000Z			
CISCO-CAR-MIB				
• 12.2(18)SXF3			0002180000Z	
• 12.2(33)SRA			0002180000Z	
• 12.2(33)SRB			0002180000Z	
• 12.2(33)SRC			0002180000Z	
CISCO-CASA-FA-MIB				
• 12.2(18)SXF3			200209180000Z	
• 12.2(33)SRA			200209180000Z	
• 12.2(33)SRB			200209180000Z	
• 12.2(33)SRC			200209180000Z	
CISCO-CASA-MIB				
• 12.2(18)SXF3			200209180000Z	
• 12.2(33)SRA			200209180000Z	
• 12.2(33)SRB			200209180000Z	
• 12.2(33)SRC			200209180000Z	
CISCO-CAT6K-CROSS-BAR-MIB				
• 12.2(18)SXF3	200411190000Z			
• 12.2(33)SRA	200411190000Z			
• 12.2(33)SRB	200411190000Z			
• 12.2(33)SRC	200411190000Z			
CISCO-CDP-MIB				
• 12.2(18)SXF3	9812100000Z			
• 12.2(33)SRA	200503210000Z			
• 12.2(33)SRB	200503210000Z			
• 12.2(33)SRC	200503210000Z			
CISCO-CEF-MIB				
• 12.2(18)SXF3				Y
• 12.2(33)SRA				Y
• 12.2(33)SRB				Y
• 12.2(33)SRC		200601300000Z		

Table 3-1 MIBs in 7600 Series Routers (continued)

MIB	Supported and Verified	Supported and Unverified	Unsupported or Unverified	Not in Image
CISCO-CIRCUIT-INTER-FACE-MIB				
• 12.2(18)SXF3	200005090000Z			
• 12.2(33)SRA	200005090000Z			
• 12.2(33)SRB	200005090000Z			
• 12.2(33)SRC	200005090000Z			
CISCO-CLASS-BASED-QOS-MIB				
• 12.2(18)SXF3	200012080000Z			
• 12.2(33)SRA	200404120000Z			
• 12.2(33)SRB	200404120000Z			
• 12.2(33)SRC	200404120000Z			
CISCO-CONFIG-COPY-MIB				
• 12.2(18)SXF3	9701150000Z			
• 12.2(33)SRA	200403170000Z			
• 12.2(33)SRB	200403170000Z			
• 12.2(33)SRC			200608220000Z	
CISCO-CONFIG-MAN-MIB				
• 12.2(18)SXF3	9511280000Z			
• 12.2(33)SRA	9511280000Z			
• 12.2(33)SRB	200406180000Z			
• 12.2(33)SRC			200608220000Z	
CISCO-CONTEXT-MAP-PING-MIB				
• 12.2(18)SXF3				Y
• 12.2(33)SRA				Y
• 12.2(33)SRB		200503170000Z		
• 12.2(33)SRC		200503170000Z		
CISCO-CSG-MIB				
• 12.2(18)SXF3			200302200000Z	
• 12.2(33)SRA			200302200000Z	
• 12.2(33)SRB			200302200000Z	
• 12.2(33)SRC			200302200000Z	
CISCO-DATA-COLLECTION-MIB				
• 12.2(18)SXF3				Y
• 12.2(33)SRA	200210300530Z			

Table 3-1 MIBs in 7600 Series Routers (continued)

MIB	Supported and Verified	Supported and Unverified	Unsupported or Unverified	Not in Image
• 12.2(33)SRB	200210300530Z			
• 12.2(33)SRC	200210300530Z			
CISCO-DIAL-CONTROL-MIB				
• 12.2(18)SXF3			9801161546Z	
• 12.2(33)SRA			9801161546Z	
• 12.2(33)SRB				Y
• 12.2(33)SRC				Y
CISCO-DLCSW-MIB				
• 12.2(18)SXF3			9702190000Z	
• 12.2(33)SRA				Y
• 12.2(33)SRB				Y
• 12.2(33)SRC				Y
CISCO-DLSW-EXT-MIB				
• 12.2(18)SXF3			9703110000Z	
• 12.2(33)SRA				Y
• 12.2(33)SRB				Y
• 12.2(33)SRC				Y
CISCO-DLSW-MIB				
• 12.2(18)SXF3			9506300900Z	
• 12.2(33)SRA				Y
• 12.2(33)SRB				Y
• 12.2(33)SRC				Y
CISCO-DSPU-MIB				
• 12.2(18)SXF3			9508150000Z	
• 12.2(33)SRA				Y
• 12.2(33)SRB				Y
• 12.2(33)SRC				Y
CISCO-EIGRP-MIB				
• 12.2(18)SXF3				Y
• 12.2(33)SRA				Y
• 12.2(33)SRB				Y
• 12.2(33)SRC				Y
CISCO-EMBED-DED-EVENT-MGR-MIB				
• 12.2(18)SXF3			200304160000Z	
• 12.2(33)SRA			200304160000Z	

Table 3-1 MIBs in 7600 Series Routers (continued)

MIB	Supported and Verified	Supported and Unverified	Unsupported or Unverified	Not in Image
• 12.2(33)SRB			200304160000Z	
• 12.2(33)SRC			200304160000Z	
CISCO-ENHANCED-IMAGE-MIB				
• 12.2(18)SXF3		200501060000Z		
• 12.2(33)SRA		200501060000Z		
• 12.2(33)SRB		200501060000Z		
• 12.2(33)SRC		200501060000Z		
CISCO-ENHANCED-MEMORY-POOL-MIB				
• 12.2(18)SXF3	200106050000Z			
• 12.2(33)SRA	200302240000Z			
• 12.2(33)SRB	200302240000Z			
• 12.2(33)SRC	200302240000Z			
CISCO-ENTITY-ALARM-MIB				
• 12.2(18)SXF3	9907062150Z			
• 12.2(33)SRA	9907062150Z			
• 12.2(33)SRB	9907062150Z			
• 12.2(33)SRC	9907062150Z			
CISCO-ENTITY-ASSET-MIB				
• 12.2(18)SXF3	200207231600Z			
• 12.2(33)SRA	200207231600Z			
• 12.2(33)SRB	200207231600Z			
• 12.2(33)SRC	200207231600Z			
CISCO-ENTITY-EXT-MIB				
• 12.2(18)SXF3	200104050000Z			
• 12.2(33)SRA	200104050000Z			
• 12.2(33)SRB	200104050000Z			
• 12.2(33)SRC	200104050000Z			
CISCO-ENTITY-FRU-CONTROL-MIB				
• 12.2(18)SXF3	200310230000Z			
• 12.2(33)SRA	200310230000Z			
• 12.2(33)SRB	200310230000Z			
• 12.2(33)SRC	200310230000Z			
CISCO-ENTITY-SENSOR-MIB				
• 12.2(18)SXF3	200301070000Z			

Table 3-1 MIBs in 7600 Series Routers (continued)

MIB	Supported and Verified	Supported and Unverified	Unsupported or Unverified	Not in Image
• 12.2(33)SRA	200509080000Z			
• 12.2(33)SRB	200601010000Z			
• 12.2(33)SRC	200601010000Z			
CISCO-ENTITY-VENDOR-TYPE-OID-MIB				
• 12.2(18)SXF3	200204051400Z			
• 12.2(33)SRA	200204051400Z			
• 12.2(33)SRB	200204051400Z			
• 12.2(33)SRC	200505050930Z			
CISCO-ENVMON-MIB				
• 12.2(18)SXF3	200207170000Z			
• 12.2(33)SRA	200207170000Z			
• 12.2(33)SRB	200207170000Z			
• 12.2(33)SRC	200207170000Z			
CISCO-ERM-MIB				
• 12.2(18)SXF3				Y
• 12.2(33)SRA				Y
• 12.2(33)SRB			200602110000Z	
• 12.2(33)SRC			200602110000Z	
CISCO-ETHER-CFM-MIB				
• 12.2(18)SXF3				Y
• 12.2(33)SRA			200412280000Z	
• 12.2(33)SRB		200412280000Z		
• 12.2(33)SRC		200412280000Z		
CISCO-FLASH-MIB				
• 12.2(18)SXF3	200301311234Z			
• 12.2(33)SRA	200301311234Z			
• 12.2(33)SRB	200403180000Z			
• 12.2(33)SRC	200403180000Z			
CISCO-FLEX-LINKS-MIB				
• 12.2(18)SXF3	200504250000Z			
• 12.2(33)SRA	200504250000Z			
• 12.2(33)SRB	200504250000Z			
• 12.2(33)SRC	200504250000Z			
CISCO-FRAME-RELAY-MIB				
• 12.2(18)SXF3	200005220000Z			

Table 3-1 MIBs in 7600 Series Routers (continued)

MIB	Supported and Verified	Supported and Unverified	Unsupported or Unverified	Not in Image
• 12.2(33)SRA	200005220000Z			
• 12.2(33)SRB	200005220000Z			
• 12.2(33)SRC			200010130000Z	
CISCO-FRAS-HOST-MIB				
• 12.2(18)SXF3			9703100000Z	
• 12.2(33)SRA				Y
• 12.2(33)SRB				Y
• 12.2(33)SRC				Y
CISCO-FTP-CLIENT-MIB				
• 12.2(18)SXF3	9710091700Z			
• 12.2(33)SRA	9710091700Z			
• 12.2(33)SRB	9710091700Z			
• 12.2(33)SRC	9710091700Z			
CISCO-HSRP-EXT-MIB				
• 12.2(18)SXF3			9808030000Z	
• 12.2(33)SRA			9808030000Z	
• 12.2(33)SRB			9808030000Z	
• 12.2(33)SRC			9808030000Z	
CISCO-HSRP-MIB				
• 12.2(18)SXF3			9808030000Z	
• 12.2(33)SRA			9808030000Z	
• 12.2(33)SRB			9808030000Z	
• 12.2(33)SRC			9808030000Z	
CISCO-IETF-ATM2-PVC-TRAP-MIB				
• 12.2(18)SXF3			200303240000Z	
• 12.2(33)SRA			200303240000Z	
• 12.2(33)SRB			200303240000Z	
• 12.2(33)SRC			9802030000Z	
CISCO-IETF-ATM2-PVC-TRAP-MIB-EXTN				
• 12.2(18)SXF3				Y
• 12.2(33)SRA				Y
• 12.2(33)SRB				Y
• 12.2(33)SRC			200007110000Z	
CISCO-IETF-DHCP-SERVER-EXT-MIB				

Table 3-1 MIBs in 7600 Series Routers (continued)

MIB	Supported and Verified	Supported and Unverified	Unsupported or Unverified	Not in Image
• 12.2(18)SXF3				Y
• 12.2(33)SRA				Y
• 12.2(33)SRB				Y
• 12.2(33)SRC			200703151200Z	
CISCO-IETF-DHCP-SERVER-MIB				
• 12.2(18)SXF3				Y
• 12.2(33)SRA				Y
• 12.2(33)SRB				Y
• 12.2(33)SRC			200703270000Z	
CISCO-IETF-FRR-MIB				
• 12.2(18)SXF3				Y
• 12.2(33)SRA			200211051200Z	
• 12.2(33)SRB			200211051200Z	
• 12.2(33)SRC			200211051200Z	
CISCO-IETF-IP-FORWARD-MIB				
• 12.2(18)SXF3	200201240000Z			
• 12.2(33)SRA	200201240000Z			
• 12.2(33)SRB	200201240000Z			
• 12.2(33)SRC				Y
CISCO-IETF-IP-MIB				
• 12.2(18)SXF3	200203040000Z			
• 12.2(33)SRA	200203040000Z			
• 12.2(33)SRB	200203040000Z			
• 12.2(33)SRC				Y
CISCO-IETF-ISIS-MIB				
• 12.2(18)SXF3				Y
• 12.2(33)SRA				Y
• 12.2(33)SRB		200508161200Z		
• 12.2(33)SRC				Y
CISCO-IETF-PPVPN-MPLS-VPN-MIB				
• 12.2(18)SXF3				Y
• 12.2(33)SRA	200304171200Z			
• 12.2(33)SRB	200304171200Z			
• 12.2(33)SRC	200304171200Z			

Table 3-1 MIBs in 7600 Series Routers (continued)

MIB	Supported and Verified	Supported and Unverified	Unsupported or Unverified	Not in Image
CISCO-IETF-PW-ATM-MIB				
• 12.2(18)SXF3				Y
• 12.2(33)SRA				Y
• 12.2(33)SRB		200504191200Z		
• 12.2(33)SRC		200504191200Z		
CISCO-IETF-PW-ENET-MIB				
• 12.2(18)SXF3				Y
• 12.2(33)SRA		200209221200Z		
• 12.2(33)SRB		200209221200Z		
• 12.2(33)SRC		200209221200Z		
CISCO-IETF-PW-FR-MIB				
• 12.2(18)SXF3				Y
• 12.2(33)SRA				Y
• 12.2(33)SRB		200312160000Z		
• 12.2(33)SRC		200312160000Z		
CISCO-IETF-PW-MIB				
• 12.2(18)SXF3				Y
• 12.2(33)SRA		200403171200Z		
• 12.2(33)SRB		200403171200Z		
• 12.2(33)SRC		200403171200Z		
CISCO-IETF-PW-MPLS-MIB				
• 12.2(18)SXF3				Y
• 12.2(33)SRA		200302261200Z		
• 12.2(33)SRB		200302261200Z		
• 12.2(33)SRC		200302261200Z		
CISCO-IETF-PW-TC-MIB				
• 12.2(18)SXF3				Y
• 12.2(33)SRA		200302261200Z		
• 12.2(33)SRB		200302261200Z		
• 12.2(33)SRC		200302261200Z		
CISCO-IETF-PW-TDM-MIB				
• 12.2(18)SXF3				Y
• 12.2(33)SRA				Y
• 12.2(33)SRB		200607210000Z		
• 12.2(33)SRC		200607210000Z		

Table 3-1 MIBs in 7600 Series Routers (continued)

MIB	Supported and Verified	Supported and Unverified	Unsupported or Unverified	Not in Image
CISCO-IF-EXTENSION-MIB				
• 12.2(18)SXF3	200308120000Z			
• 12.2(33)SRA	200308120000Z			
• 12.2(33)SRB	200311140000Z			
• 12.2(33)SRC	200311140000Z			
CISCO-IMAGE-MIB				
• 12.2(18)SXF3	9508150000Z			
• 12.2(33)SRA	9508150000Z			
• 12.2(33)SRB	9508150000Z			
• 12.2(33)SRC	9508150000Z			
CISCO-IMAGE-TC-MIB				
• 12.2(18)SXF3	200501120000Z			
• 12.2(33)SRA	200501120000Z			
• 12.2(33)SRB	200501120000Z			
• 12.2(33)SRC	200501120000Z			
CISCO-IP-STAT-MIB				
• 12.2(18)SXF3		9707180000Z		
• 12.2(33)SRA		200112202300Z		
• 12.2(33)SRB		200112202300Z		
• 12.2(33)SRC		200112202300Z		
CISCO-IP-STAT-MIB				
• 12.2(18)SXF3		200012220000Z		
• 12.2(33)SRA		200503070000Z		
• 12.2(33)SRB		200503070000Z		
• 12.2(33)SRC		200503070000Z		
CISCO-IP-TAP-MIB				
• 12.2(18)SXF3				Y
• 12.2(33)SRA				Y
• 12.2(33)SRB		200403110000Z		
• 12.2(33)SRC		200403110000Z		
CISCO-IP-URPF-MIB				
• 12.2(18)SXF3				Y
• 12.2(33)SRA				Y
• 12.2(33)SRB				Y
• 12.2(33)SRC			200411120000Z	

Table 3-1 MIBs in 7600 Series Routers (continued)

MIB	Supported and Verified	Supported and Unverified	Unsupported or Unverified	Not in Image
CISCO-IPSEC-FLOW-MONITOR-MIB				
• 12.2(18)SXF3			200010131800Z	
• 12.2(33)SRA			200010131800Z	
• 12.2(33)SRB			200010131800Z	
• 12.2(33)SRC			200010131800Z	
CISCO-IPSEC-MIB				
• 12.2(18)SXF3			200008071139Z	
• 12.2(33)SRA			200008071139Z	
• 12.2(33)SRB			200008071139Z	
• 12.2(33)SRC			200008071139Z	
CISCO-IPSLA-ETHERNET-MIB				
• 12.2(18)SXF3				Y
• 12.2(33)SRA				Y
• 12.2(33)SRB				Y
• 12.2(33)SRC			200602080000Z	
CISCO-L2-CONTROL-MIB				
• 12.2(18)SXF3	200306011700Z			
• 12.2(33)SRA	200306011700Z			
• 12.2(33)SRB	200306011700Z			
• 12.2(33)SRC	200306011700Z			
CISCO-L2-TUNNEL-CONFIG-MIB				
• 12.2(18)SXF3	200205311000Z			
• 12.2(33)SRA	200205311000Z			
• 12.2(33)SRB	200205311000Z			
• 12.2(33)SRC	200205311000Z			
CISCO-L2L3-INTERFACE-CONFIG-MIB				
• 12.2(18)SXF3	200005101900Z			
• 12.2(33)SRA	200005101900Z			
• 12.2(33)SRB	200005101900Z			
• 12.2(33)SRC	200005101900Z			
CISCO-LAG-MIB				
• 12.2(18)SXF3	200212130000Z			
• 12.2(33)SRA	200212130000Z			
• 12.2(33)SRB	200212130000Z			

Table 3-1 MIBs in 7600 Series Routers (continued)

MIB	Supported and Verified	Supported and Unverified	Unsupported or Unverified	Not in Image
• 12.2(33)SRC	200212130000Z			
CISCO-MAC-NOTIFICATION-MIB				
• 12.2(18)SXF3	200303210000Z			
• 12.2(33)SRA	200303210000Z			
• 12.2(33)SRB	200303210000Z			
• 12.2(33)SRC		200706110000Z		
CISCO-MEMORY-POOL-MIB				
• 12.2(18)SXF3	9602120000Z			
• 12.2(33)SRA	9602120000Z			
• 12.2(33)SRB	9602120000Z			
• 12.2(33)SRC	9602120000Z			
CISCO-MVPN-MIB				
• 12.2(18)SXF3				Y
• 12.2(33)SRA		200402231200Z		
• 12.2(33)SRB		200402231200Z		
• 12.2(33)SRC		200402231200Z		
CISCO-NAC-NAD-MIB				
• 12.2(18)SXF3				Y
• 12.2(33)SRA				Y
• 12.2(33)SRB			200602150000Z	
• 12.2(33)SRC			200602150000Z	
CISCO-NDE-MIB				
• 12.2(18)SXF3	200108080000Z			
• 12.2(33)SRA	200108080000Z			
• 12.2(33)SRB	200108080000Z			
• 12.2(33)SRC	200108080000Z			
CISCO-NETFLOW-MIB				
• 12.2(18)SXF3				Y
• 12.2(33)SRA				Y
• 12.2(33)SRB			200503270000Z	
• 12.2(33)SRC				Y
CISCO-NTP-MIB				
• 12.2(18)SXF3	200202200000Z			
• 12.2(33)SRA	200307070000Z			
• 12.2(33)SRB	200307070000Z			

Table 3-1 MIBs in 7600 Series Routers (continued)

MIB	Supported and Verified	Supported and Unverified	Unsupported or Unverified	Not in Image
• 12.2(33)SRC	200307070000Z			
CISCO-OSPF-MIB				
• 12.2(18)SXF3	200301280000Z			
• 12.2(33)SRA	200301280000Z			
• 12.2(33)SRB	200301280000Z			
• 12.2(33)SRC	200301280000Z			
CISCO-OSPF-TRAP-MIB				
• 12.2(18)SXF3	200302270000Z			
• 12.2(33)SRA	200302270000Z			
• 12.2(33)SRB	200302270000Z			
• 12.2(33)SRC	200302270000Z			
CISCO-PAE-MIB				
• 12.2(18)SXF3	200105241016Z			
• 12.2(33)SRA	200302260000Z			
• 12.2(33)SRB	200604120000Z			
• 12.2(33)SRC	200604120000Z			
CISCO-PAGP-MIB				
• 12.2(18)SXF3	9903030000Z			
• 12.2(33)SRA	9903030000Z			
• 12.2(33)SRB	9903030000Z			
• 12.2(33)SRC	9903030000Z			
CISCO-PIM-MIB				
• 12.2(18)SXF3		200011020000Z		
• 12.2(33)SRA		200011020000Z		
• 12.2(33)SRB		200011020000Z		
• 12.2(33)SRC		200011020000Z		
CISCO-PING-MIB				
• 12.2(18)SXF3	200108280000Z			
• 12.2(33)SRA	200108280000Z			
• 12.2(33)SRB	200108280000Z			
• 12.2(33)SRC	200108280000Z			
CISCO-POLICY-GROUP-MIB				
• 12.2(18)SXF3				Y
• 12.2(33)SRA				Y
• 12.2(33)SRB			200601131600Z	

Table 3-1 MIBs in 7600 Series Routers (continued)

MIB	Supported and Verified	Supported and Unverified	Unsupported or Unverified	Not in Image
• 12.2(33)SRC			200601131600Z	
CISCO-PORT-SECURITY-MIB				
• 12.2(18)SXF3	200504190000Z			
• 12.2(33)SRA	200504190000Z			
• 12.2(33)SRB	200504190000Z			
• 12.2(33)SRC	200504190000Z			
CISCO-PPPOE-MIB				
• 12.2(18)SXF3				Y
• 12.2(33)SRA				Y
• 12.2(33)SRB				Y
• 12.2(33)SRC			200102200000Z	
CISCO-PRIVATE-VLAN-MIB				
• 12.2(18)SXF3	200207240000Z			
• 12.2(33)SRA	200207240000Z			
• 12.2(33)SRB	200207240000Z			
• 12.2(33)SRC	200207240000Z			
CISCO-PROCESS-MIB				
• 12.2(18)SXF3	200105180000Z			
• 12.2(33)SRA	200301220000Z			
• 12.2(33)SRB	200301220000Z			
• 12.2(33)SRC	200301220000Z			
CISCO-PRODUCTS-MIB				
• 12.2(18)SXF3	200204051400Z			
• 12.2(33)SRA	200204051400Z			
• 12.2(33)SRB	200204051400Z			
• 12.2(33)SRC	200505051930Z			
CISCO-QINQ-VLAN-MIB				
• 12.2(18)SXF3			200411290000Z	
• 12.2(33)SRA			200411290000Z	
• 12.2(33)SRB			200411290000Z	
• 12.2(33)SRC			200411290000Z	
CISCO-QLLC01-MIB				
• 12.2(18)SXF3			9411090000Z	
• 12.2(33)SRA				Y
• 12.2(33)SRB				Y

Table 3-1 MIBs in 7600 Series Routers (continued)

MIB	Supported and Verified	Supported and Unverified	Unsupported or Unverified	Not in Image
• 12.2(33)SRC				Y
CISCO-QUEUE-MIB				
• 12.2(18)SXF3		9505310000Z		
• 12.2(33)SRA		9505310000Z		
• 12.2(33)SRB		9505310000Z		
• 12.2(33)SRC		9505310000Z		
CISCO-RESILIENT-ETHER-NET-PROTOCOL-MIB				
• 12.2(18)SXF3				Y
• 12.2(33)SRA				Y
• 12.2(33)SRB				Y
• 12.2(33)SRC		200705220000Z		
CISCO-RF-MIB				
• 12.2(18)SXF3	200107200000Z			
• 12.2(33)SRA	200404030000Z			
• 12.2(33)SRB	200404030000Z			
• 12.2(33)SRC	200404030000Z			
CISCO-RMON-CONFIG-MIB				
• 12.2(18)SXF3	200501240000Z			
• 12.2(33)SRA	200501240000Z			
• 12.2(33)SRB	200602210000Z			
• 12.2(33)SRC	200602210000Z			
CISCO-RSRB-MIB				
• 12.2(18)SXF3			9508210000Z	
• 12.2(33)SRA				Y
• 12.2(33)SRB				Y
• 12.2(33)SRC				Y
CISCO-RTTMON-MIB				
• 12.2(18)SXF3	0104230000Z			
• 12.2(33)SRA	200401200000Z			
• 12.2(33)SRB	200603020000Z			
• 12.2(33)SRC	200603020000Z			
CISCO-RTTMON-IP-EXT-MIB				
• 12.2(18)SXF3				Y
• 12.2(33)SRA				Y
• 12.2(33)SRB				Y

Table 3-1 MIBs in 7600 Series Routers (continued)

MIB	Supported and Verified	Supported and Unverified	Unsupported or Unverified	Not in Image
• 12.2(33)SRC			200608020000Z	
CISCO-SDLLC-MIB				
• 12.2(18)SXF3			9508210000Z	
• 12.2(33)SRA				Y
• 12.2(33)SRB				Y
• 12.2(33)SRC				Y
CISCO-SLB-EXT-MIB				
• 12.2(18)SXF3		200302111000Z		
• 12.2(33)SRA		200302111000Z		
• 12.2(33)SRB		200302111000Z		
• 12.2(33)SRC		200302111000Z		
CISCO-SLB-MIB				
• 12.2(18)SXF3		200203180000Z		
• 12.2(33)SRA		200203180000Z		
• 12.2(33)SRB		200203180000Z		
• 12.2(33)SRC		200203180000Z		
CISCO-SMI-MIB				
• 12.2(18)SXF3			200011012246Z	
• 12.2(33)SRA			200011012246Z	
• 12.2(33)SRB			200011012246Z	
• 12.2(33)SRC			200011012246Z	
CISCO-SNADLC-CONV01-MIB				
• 12.2(18)SXF3			9504120000Z	
• 12.2(33)SRA				Y
• 12.2(33)SRB				Y
• 12.2(33)SRC				Y
CISCO-SNAPSHOT-MIB				
• 12.2(18)SXF3			9508150000Z	
• 12.2(33)SRA			9508150000Z	
• 12.2(33)SRB			9508150000Z	
• 12.2(33)SRC			9508150000Z	
CISCO-SNMP-TARGET-EXT-MIB				
• 12.2(18)SXF3				Y
• 12.2(33)SRA				Y
• 12.2(33)SRB			200404010000Z	

Table 3-1 MIBs in 7600 Series Routers (continued)

MIB	Supported and Verified	Supported and Unverified	Unsupported or Unverified	Not in Image
• 12.2(33)SRC			200404010000Z	
CISCO-SONET-MIB				
• 12.2(18)SXF3	200205220000Z			
• 12.2(33)SRA	200205220000Z			
• 12.2(33)SRB	200205220000Z			
• 12.2(33)SRC	200205220000Z			
CISCO-SRP-MIB				
• 12.2(18)SXF3			200103280000Z	
• 12.2(33)SRA			200103280000Z	
• 12.2(33)SRB			200103280000Z	
• 12.2(33)SRC				Y
CISCO-STACK-MIB				
• 12.2(18)SXF3	200305290000Z			
• 12.2(33)SRA	200305290000Z			
• 12.2(33)SRB	200305290000Z			
• 12.2(33)SRC	200305290000Z			
CISCO-STP-EXTENSIONS-MIB				
• 12.2(18)SXF3	200503020000Z			
• 12.2(33)SRA	200503020000Z			
• 12.2(33)SRB	200503020000Z			
• 12.2(33)SRC	200503020000Z			
CISCO-STUN-MIB				
• 12.2(18)SXF3			9508210000Z	
• 12.2(33)SRA				Y
• 12.2(33)SRB				Y
• 12.2(33)SRC				Y
CISCO-SVI-AUTOSTATE-MIB				
• 12.2(18)SXF3	200311130000Z			
• 12.2(33)SRA	200311130000Z			
• 12.2(33)SRB	200311130000Z			
• 12.2(33)SRC	200311130000Z			
CISCO-SWITCH-ENGINE-MIB				
• 12.2(18)SXF3	200311070000Z			
• 12.2(33)SRA	200311070000Z			
• 12.2(33)SRB	200311070000Z			

Table 3-1 MIBs in 7600 Series Routers (continued)

MIB	Supported and Verified	Supported and Unverified	Unsupported or Unverified	Not in Image
• 12.2(33)SRC	200311070000Z			
CISCO-SWITCH-QOS-MIB				
• 12.2(18)SXF3				Y
• 12.2(33)SRA				Y
• 12.2(33)SRB				Y
• 12.2(33)SRC	200609180000Z			
CISCO-SYSLOG-MIB				
• 12.2(18)SXF3	9508070000Z			
• 12.2(33)SRA	9508070000Z			
• 12.2(33)SRB	9508070000Z			
• 12.2(33)SRC	9508070000Z			
CISCO-TAP2-MIB				
• 12.2(18)SXF3				Y
• 12.2(33)SRA				Y
• 12.2(33)SRB		200611270000Z		
• 12.2(33)SRC		200611270000Z		
CISCO-TC				
• 12.2(18)SXF3	200404140000Z			
• 12.2(33)SRA	200404140000Z			
• 12.2(33)SRB	200404140000Z			
• 12.2(33)SRC	200404140000Z			
CISCO-TCP-MIB				
• 12.2(18)SXF3		200111120000Z		
• 12.2(33)SRA		200111120000Z		
• 12.2(33)SRB		200111120000Z		
• 12.2(33)SRC		200111120000Z		
CISCO-UDLDP-MIB				
• 12.2(18)SXF3	200302210000Z			
• 12.2(33)SRA	200302210000Z			
• 12.2(33)SRB	200302210000Z			
• 12.2(33)SRC	200302210000Z			
CISCO-VINES-MIB				
• 12.2(18)SXF3			9506070000Z	
• 12.2(33)SRA				Y
• 12.2(33)SRB				Y

Table 3-1 MIBs in 7600 Series Routers (continued)

MIB	Supported and Verified	Supported and Unverified	Unsupported or Unverified	Not in Image
• 12.2(33)SRC				Y
CISCO-VLAN-IFTABLE-RELATIONSHIP-MIB				
• 12.2(18)SXF3	9904010530Z			
• 12.2(33)SRA	9904010530Z			
• 12.2(33)SRB	9904010530Z			
• 12.2(33)SRC	9904010530Z			
CISCO-VLAN-MEMBER-SHIP-MIB				
• 12.2(18)SXF3	200404070000Z			
• 12.2(33)SRA	200404070000Z			
• 12.2(33)SRB	200404070000Z			
• 12.2(33)SRC	200404070000Z			
CISCO-VLAN-TRANSLATION-MIB				
• 12.2(18)SXF3	200406010000Z			
• 12.2(33)SRA	200406010000Z			
• 12.2(33)SRB	200406010000Z			
• 12.2(33)SRC	200406010000Z			
CISCO-VOICE-ANALOG-IF-MIB				
• 12.2(18)SXF3			200201210000Z	
• 12.2(33)SRA			200201210000Z	
• 12.2(33)SRB			200201210000Z	
• 12.2(33)SRC				Y
CISCO-VOICE-COMMON-DIAL-CONTROL-MIB				
• 12.2(18)SXF3			200109050000Z	
• 12.2(33)SRA			200109050000Z	
• 12.2(33)SRB				Y
• 12.2(33)SRC				Y
CISCO-VOICE-DIAL-CONTROL-MIB				
• 12.2(18)SXF3			200004190000Z	
• 12.2(33)SRA			200004190000Z	
• 12.2(33)SRB			Not Included	
• 12.2(33)SRC			Not Included	
CISCO-VOICE-IF-MIB				

Table 3-1 MIBs in 7600 Series Routers (continued)

MIB	Supported and Verified	Supported and Unverified	Unsupported or Unverified	Not in Image
• 12.2(18)SXF3			9909140000Z	
• 12.2(33)SRA			9909140000Z	
• 12.2(33)SRB			9909140000Z	
• 12.2(33)SRC				Y
CISCO-VPDN-MGMT-EXT-MIB				
• 12.2(18)SXF3				Y
• 12.2(33)SRA				Y
• 12.2(33)SRB				Y
• 12.2(33)SRC			200706040000Z	
CISCO-VPDN-MGMT-MIB				
• 12.2(18)SXF3				Y
• 12.2(33)SRA				Y
• 12.2(33)SRB				Y
• 12.2(33)SRC			200601200000Z	
CISCO-VTP-MIB				
• 12.2(18)SXF3	200311210000Z			
• 12.2(33)SRA	200311210000Z			
• 12.2(33)SRB	200311210000Z			
• 12.2(33)SRC	200311210000Z			
DIAL-CONTROL-MIB				
• 12.2(18)SXF3			9609231544Z	
• 12.2(33)SRA			9609231544Z	
• 12.2(33)SRB			9609231544Z	
• 12.2(33)SRC				Y
DIFFSERV-DSCP-TC				
• 12.2(18)SXF3				Y
• 12.2(33)SRA				Y
• 12.2(33)SRB		200205090000Z		
• 12.2(33)SRC		200205090000Z		
DIFFSERV-MIB				
• 12.2(18)SXF3				Y
• 12.2(33)SRA				Y
• 12.2(33)SRB		200202070000Z		
• 12.2(33)SRC		200202070000Z		
DLSW-MIB				

Table 3-1 MIBs in 7600 Series Routers (continued)

MIB	Supported and Verified	Supported and Unverified	Unsupported or Unverified	Not in Image
• 12.2(18)SXF3			9512050000Z	
• 12.2(33)SRA				Y
• 12.2(33)SRB				Y
• 12.2(33)SRC				Y
DS1-MIB (RFC 1406, 2495, 2495)				
• 12.2(18)SXF3	Revision not available			
• 12.2(33)SRA	9808011830Z			
• 12.2(33)SRB	9808011830Z			
• 12.2(33)SRC	9808011830Z			
DS3-MIB (RFC 1407)				
• 12.2(18)SXF3	Revision not available			
• 12.2(33)SRA	9808012130			
• 12.2(33)SRB	9808012130			
• 12.2(33)SRC	9808012130			
ENTITY-MIB (RFC 2737)				
• 12.2(18)SXF3	9912070000Z			
• 12.2(33)SRA	9912070000Z			
• 12.2(33)SRB	9912070000Z			
• 12.2(33)SRC	9912070000Z			
ENTITY-SENSOR-MIB				
• 12.2(18)SXF3	200212160000Z			
• 12.2(33)SRA	200212160000Z			
• 12.2(33)SRB	200212160000Z			
• 12.2(33)SRC	200212160000Z			
ETHERLIKE-MIB (RFC 2665, 3635)				
• 12.2(18)SXF3	9908240400Z			
• 12.2(33)SRA	9908240400Z			
• 12.2(33)SRB	200309190000Z			
• 12.2(33)SRC	200309190000Z			
EVENT-MIB				
• 12.2(18)SXF3			9902221700Z	
• 12.2(33)SRA			200010160000Z	
• 12.2(33)SRB			200010160000Z	

Table 3-1 MIBs in 7600 Series Routers (continued)

MIB	Supported and Verified	Supported and Unverified	Unsupported or Unverified	Not in Image
• 12.2(33)SRC			200010160000Z	
EXPRESSION-MIB				
• 12.2(18)SXF3		9802251700Z		
• 12.2(33)SRA		9802251700Z		
• 12.2(33)SRB		9802251700Z		
• 12.2(33)SRC		9802251700Z		
FR-MFR-MIB				
• 12.2(18)SXF3				Y
• 12.2(33)SRA				Y
• 12.2(33)SRB				Y
• 12.2(33)SRC			200011300000Z	
HC-RMON-MIB				
• 12.2(18)SXF3	9702120000Z			
• 12.2(33)SRA	9702120000Z			
• 12.2(33)SRB	9702120000Z			
• 12.2(33)SRC	9702120000Z			
IEEE8021-CFM-MIB				
• 12.2(18)SXF3				Y
• 12.2(33)SRA				Y
• 12.2(33)SRB			200608220100Z	
• 12.2(33)SRC			200608220100Z	
IEEE8021-PAE-MIB				
• 12.2(18)SXF3	200101160000Z			
• 12.2(33)SRA	200101160000Z			
• 12.2(33)SRB	200101160000Z			
• 12.2(33)SRC	200101160000Z			
IEEE8023-LAG-MIB				
• 12.2(18)SXF3	200006270000Z			
• 12.2(33)SRA	200006270000Z			
• 12.2(33)SRB	200006270000Z			
• 12.2(33)SRC	200006270000Z			
IF-MIB (RFC 2863)				
• 12.2(18)SXF3	9611031355Z			
• 12.2(33)SRA	9611031355Z			
• 12.2(33)SRB	9611031355Z			

Table 3-1 MIBs in 7600 Series Routers (continued)

MIB	Supported and Verified	Supported and Unverified	Unsupported or Unverified	Not in Image
• 12.2(33)SRC	9611031355Z			
IGMP-MIB				
• 12.2(18)SXF3		9712180000Z		
• 12.2(33)SRA		9712180000Z		
• 12.2(33)SRB		9712180000Z		
• 12.2(33)SRC		9712180000Z		
IMA-MIB				
• 12.2(18)SXF3			9804011315Z	
• 12.2(33)SRA			9804011315Z	
• 12.2(33)SRB			9804011315Z	
• 12.2(33)SRC			9804011315Z	
INT-SERV-GUARANTEED-MIB				
• 12.2(18)SXF3			9511030500Z	
• 12.2(33)SRA			9511030500Z	
• 12.2(33)SRB			9511030500Z	
• 12.2(33)SRC			9511030500Z	
INT-SERV-MIB				
• 12.2(18)SXF3			9710030642Z	
• 12.2(33)SRA			9710030642Z	
• 12.2(33)SRB			9710030642Z	
• 12.2(33)SRC			9710030642Z	
INTEGRATED-SERVICES-MIB				
• 12.2(18)SXF3				Y
• 12.2(33)SRA				Y
• 12.2(33)SRB		9511030500Z		
• 12.2(33)SRC		9511030500Z		
IP-FORWARD-MIB				
• 12.2(18)SXF3				Y
• 12.2(33)SRA	9609190000Z			
• 12.2(33)SRB	9609190000Z			
• 12.2(33)SRC		200602010000Z		
IP-MIB				
• 12.2(18)SXF3				Y
• 12.2(33)SRA				Y
• 12.2(33)SRB			200404260000Z	

Table 3-1 MIBs in 7600 Series Routers (continued)

MIB	Supported and Verified	Supported and Unverified	Unsupported or Unverified	Not in Image
• 12.2(33)SRC	200602020000Z			
IPMROUTE-MIB				
• 12.2(18)SXF3		9902080000Z		
• 12.2(33)SRA				Y
• 12.2(33)SRB				Y
• 12.2(33)SRC				Y
IPMROUTE-STD-MIB				
• 12.2(18)SXF3				Y
• 12.2(33)SRA		200009220000Z		
• 12.2(33)SRB		200009220000Z		
• 12.2(33)SRC		200009220000Z		
LLDP-MIB				
• 12.2(18)SXF3				Y
• 12.2(33)SRA				Y
• 12.2(33)SRB			200505060000Z	
• 12.2(33)SRC			200505060000Z	
MPLS-LDP-MIB				
• 12.2(18)SXF3	200108161200Z			
• 12.2(33)SRA	200108161200Z			
• 12.2(33)SRB				Y
• 12.2(33)SRC				Y
MPLS-LDP-ATM-STD-MIB (RFC 3815)				
• 12.2(18)SXF3				Y
• 12.2(33)SRA				Y
• 12.2(33)SRB		200406030000Z		
• 12.2(33)SRC		200406030000Z		
MPLS-LDP-GENERIC-STD-MIB (RFC 3815)				
• 12.2(18)SXF3				Y
• 12.2(33)SRA				Y
• 12.2(33)SRB		200406030000Z		
• 12.2(33)SRC		200406030000Z		
MPLS-LDP-STD-MIB (RFC 3815)				
• 12.2(18)SXF3				Y
• 12.2(33)SRA				Y

Table 3-1 MIBs in 7600 Series Routers (continued)

MIB	Supported and Verified	Supported and Unverified	Unsupported or Unverified	Not in Image
• 12.2(33)SRB		200406030000Z		
• 12.2(33)SRC		200406030000Z		
MPLS-LSR-MIB				
• 12.2(18)SXF3	200004261200Z			
• 12.2(33)SRA	200004261200Z			
• 12.2(33)SRB				Y
• 12.2(33)SRC				Y
MPLS-LSR-STD-MIB (RFC 3031)				
• 12.2(18)SXF3				Y
• 12.2(33)SRA				Y
• 12.2(33)SRB		200406030000Z		
• 12.2(33)SRC		200406030000Z		
MPLS-L3VPN-STD-MIB				
• 12.2(18)SXF3				Y
• 12.2(33)SRA				Y
• 12.2(33)SRB				Y
• 12.2(33)SRC			200601230000Z	
MPLS-TC-MIB				
• 12.2(18)SXF3				Y
• 12.2(33)SRA	200101041200Z			
• 12.2(33)SRB	200101041200Z			
• 12.2(33)SRC	200101041200Z			
MPLS-TE-MIB				
• 12.2(18)SXF3	200011211200Z			
• 12.2(33)SRA	200011211200Z			
• 12.2(33)SRB	200011211200Z			
• 12.2(33)SRC	200011211200Z			
MPLS-VPN-MIB				
• 12.2(18)SXF3			200110151200Z	
• 12.2(33)SRA	200110151200Z			
• 12.2(33)SRB	200110151200Z			
• 12.2(33)SRC	200110151200Z			
MSDP-MIB				
• 12.2(18)SXF3		9912160000Z		
• 12.2(33)SRA		9912160000Z		

Table 3-1 MIBs in 7600 Series Routers (continued)

MIB	Supported and Verified	Supported and Unverified	Unsupported or Unverified	Not in Image
• 12.2(33)SRB		9912160000Z		
• 12.2(33)SRC		9912160000Z		
NOTIFICATION-LOG-MIB				
• 12.2(18)SXF3		200011270000Z		
• 12.2(33)SRA		200011270000Z		
• 12.2(33)SRB		200011270000Z		
• 12.2(33)SRC		200011270000Z		
NOVELL-IPX-MIB				
• 12.2(18)SXF3			Revision not available	
• 12.2(33)SRA				Y
• 12.2(33)SRB				Y
• 12.2(33)SRC				Y
NOVELL-NLSP-MIB				
• 12.2(18)SXF3			Revision not available	
• 12.2(33)SRA				Y
• 12.2(33)SRB				Y
• 12.2(33)SRC				Y
NOVELL-RIPSAP-MIB				
• 12.2(18)SXF3			Revision not available	
• 12.2(33)SRA				Y
• 12.2(33)SRB				Y
• 12.2(33)SRC				Y
OLD-CISCO-APPLETALK-MIB				
• 12.2(18)SXF3			Revision not available	
• 12.2(33)SRA				Y
• 12.2(33)SRB				Y
• 12.2(33)SRC				Y
OLD-CISCO-CHASSIS-MIB				
• 12.2(18)SXF3	Revision not available			
• 12.2(33)SRA	Revision not available			

Table 3-1 MIBs in 7600 Series Routers (continued)

MIB	Supported and Verified	Supported and Unverified	Unsupported or Unverified	Not in Image
• 12.2(33)SRB	Revision not available			
• 12.2(33)SRC	Revision not available			
OLD-CISCO-CPU-MIB				
• 12.2(18)SXF3				Y
• 12.2(33)SRA				Y
• 12.2(33)SRB			Revision not available	
• 12.2(33)SRC			Revision not available	
OLD-CISCO-DECNET-MIB				
• 12.2(18)SXF3			Revision not available	
• 12.2(33)SRA				Y
• 12.2(33)SRB				Y
• 12.2(33)SRC				Y
OLD-CISCO-INTER-FACES-MIB				
• 12.2(18)SXF3			Revision not available	
• 12.2(33)SRA			Revision not available	
• 12.2(33)SRB			Revision not available	
• 12.2(33)SRC			Revision not available	
OLD-CISCO-IP-MIB				
• 12.2(18)SXF3			Revision not available	
• 12.2(33)SRA			Revision not available	
• 12.2(33)SRB			Revision not available	
• 12.2(33)SRC			Revision not available	
OLD-CISCO-MEMORY-MIB				
• 12.2(18)SXF3				Y
• 12.2(33)SRA				Y

Table 3-1 MIBs in 7600 Series Routers (continued)

MIB	Supported and Verified	Supported and Unverified	Unsupported or Unverified	Not in Image
• 12.2(33)SRB			Revision not available	
• 12.2(33)SRC			Revision not available	
OLD-CISCO-NOVELL-MIB				
• 12.2(18)SXF3			Revision not available	
• 12.2(33)SRA				Y
• 12.2(33)SRB				Y
• 12.2(33)SRC				Y
OLD-CISCO-SYS-MIB				
• 12.2(18)SXF3			Revision not available	
• 12.2(33)SRA			Revision not available	
• 12.2(33)SRB				Y
• 12.2(33)SRC				Y
OLD-CISCO-SYSTEM-MIB				
• 12.2(18)SXF3				Y
• 12.2(33)SRA				Y
• 12.2(33)SRB			Revision not available	
• 12.2(33)SRC			Revision not available	
OLD-CISCO-TCP-MIB				
• 12.2(18)SXF3			Revision not available	
• 12.2(33)SRA			Revision not available	
• 12.2(33)SRB			Revision not available	
• 12.2(33)SRC			Revision not available	
OLD-CISCO-TS-MIB				
• 12.2(18)SXF3			Revision not available	
• 12.2(33)SRA			Revision not available	

Table 3-1 MIBs in 7600 Series Routers (continued)

MIB	Supported and Verified	Supported and Unverified	Unsupported or Unverified	Not in Image
• 12.2(33)SRB			Revision not available	
• 12.2(33)SRC			Revision not available	
OLD-CISCO-VINES-MIB				
• 12.2(18)SXF3			Revision not available	
• 12.2(33)SRA				Y
• 12.2(33)SRB				Y
• 12.2(33)SRC				Y
OLD-CISCO-XNS-MIB				
• 12.2(18)SXF3			Revision not available	
• 12.2(33)SRA				Y
• 12.2(33)SRB				Y
• 12.2(33)SRC				Y
OSPF-MIB				
• 12.2(18)SXF3	9501201225Z			
• 12.2(33)SRA	9501201225Z			
• 12.2(33)SRB	9501201225Z			
• 12.2(33)SRC	9501201225Z			
OSPF-TRAP-MIB				
• 12.2(18)SXF3	9501201225Z			
• 12.2(33)SRA	9501201225Z			
• 12.2(33)SRB	9501201225Z			
• 12.2(33)SRC	9501201225Z			
PIM-MIB (RFC 2934)				
• 12.2(18)SXF3		200009280000Z		
• 12.2(33)SRA		200009280000Z		
• 12.2(33)SRB		200009280000Z		
• 12.2(33)SRC		200009280000Z		
RFC1213-MIB				
• 12.2(18)SXF3			Revision not available	
• 12.2(33)SRA			Revision not available	

Table 3-1 MIBs in 7600 Series Routers (continued)

MIB	Supported and Verified	Supported and Unverified	Unsupported or Unverified	Not in Image
• 12.2(33)SRB	Revision not available			
• 12.2(33)SRC	Revision not available			
RFC1243-MIB (Appletalk)				
• 12.2(18)SXF3				Revision not available
• 12.2(33)SRA				Y
• 12.2(33)SRB				Y
• 12.2(33)SRC				Y
RFC1315-MIB (Frame Relay)				
• 12.2(18)SXF3	Revision not available			
• 12.2(33)SRA	Revision not available			
• 12.2(33)SRB	Revision not available			
• 12.2(33)SRC	Revision not available			
RFC1381-MIB (X25 LAPB)				
• 12.2(18)SXF3				Revision not available
• 12.2(33)SRA				Y
• 12.2(33)SRB				Y
• 12.2(33)SRC				Y
RFC1382-MIB (X25 Packet Layer)				
• 12.2(18)SXF3				Revision not available
• 12.2(33)SRA				Y
• 12.2(33)SRB				Y
• 12.2(33)SRC				Y
RFC2006-MIB (MIP)				
• 12.2(18)SXF3				9606040000Z
• 12.2(33)SRA				9606040000Z
• 12.2(33)SRB				9606040000Z
• 12.2(33)SRC				9606040000Z
RMON-MIB (RFC 1757)				

Table 3-1 MIBs in 7600 Series Routers (continued)

MIB	Supported and Verified	Supported and Unverified	Unsupported or Unverified	Not in Image
• 12.2(18)SXF3	Revision not available			
• 12.2(33)SRA	Revision not available			
• 12.2(33)SRB	Revision not available			
• 12.2(33)SRC	Revision not available			
RMON2-MIB (RFC 2021)				
• 12.2(18)SXF3	9605270000Z			
• 12.2(33)SRA	9605270000Z			
• 12.2(33)SRB	9605270000Z			
• 12.2(33)SRC	9605270000Z			
RS-232-MIB				
• 12.2(18)SXF3			9405261700Z	
• 12.2(33)SRA			9405261700Z	
• 12.2(33)SRB			9405261700Z	
• 12.2(33)SRC			9405261700Z	
RSVP-MIB				
• 12.2(18)SXF3			9808251820Z	
• 12.2(33)SRA			9808251820Z	
• 12.2(33)SRB			9808251820Z	
• 12.2(33)SRC			9808251820Z	
SMON-MIB				
• 12.2(18)SXF3	9812160000Z			
• 12.2(33)SRA	9812160000Z			
• 12.2(33)SRB	9812160000Z			
• 12.2(33)SRC	9812160000Z			
SNA-SDLC-MIB				
• 12.2(18)SXF3			9411150000Z	
• 12.2(33)SRA				Y
• 12.2(33)SRB				Y
• 12.2(33)SRC				Y
SNMP-COMMUNITY-MIB (RFC 2576)				
• 12.2(18)SXF3	Revision not available			

Table 3-1 MIBs in 7600 Series Routers (continued)

MIB	Supported and Verified	Supported and Unverified	Unsupported or Unverified	Not in Image
• 12.2(33)SRA	Revision not available			
• 12.2(33)SRB	Revision not available			
• 12.2(33)SRC	Revision not available			
SNMP-FRAMEWORK-MIB (RFC 2571)				
• 12.2(18)SXF3	9901190000Z			
• 12.2(33)SRA	9901190000Z			
• 12.2(33)SRB	9901190000Z			
• 12.2(33)SRC	9901190000Z			
SNMP-MPD-MIB (RFC 2572)				
• 12.2(18)SXF3	9905041636Z			
• 12.2(33)SRA	9905041636Z			
• 12.2(33)SRB	9905041636Z			
• 12.2(33)SRC	9905041636Z			
SNMP-NOTIFICATION-MIB (RFC 2573)				
• 12.2(18)SXF3	9808040000Z			
• 12.2(33)SRA	9808040000Z			
• 12.2(33)SRB	9808040000Z			
• 12.2(33)SRC	9808040000Z			
SNMP-PROXY-MIB				
• 12.2(18)SXF3				9808040000Z
• 12.2(33)SRA				9808040000Z
• 12.2(33)SRB				9808040000Z
• 12.2(33)SRC				9808040000Z
SNMP-TARGET-MIB (RFC 2573)				
• 12.2(18)SXF3	9808040000Z			
• 12.2(33)SRA	9808040000Z			
• 12.2(33)SRB	9808040000Z			
• 12.2(33)SRC	9808040000Z			
SNMP-USM-MIB (RFC 2574)				
• 12.2(18)SXF3	9901200000Z			
• 12.2(33)SRA	9901200000Z			

Table 3-1 MIBs in 7600 Series Routers (continued)

MIB	Supported and Verified	Supported and Unverified	Unsupported or Unverified	Not in Image
• 12.2(33)SRB	990120000Z			
• 12.2(33)SRC	990120000Z			
SNMP-VACM-MIB (RFC 2575)				
• 12.2(18)SXF3	990120000Z			
• 12.2(33)SRA	990120000Z			
• 12.2(33)SRB	990120000Z			
• 12.2(33)SRC	990120000Z			
SNMPV2-MIB (RFC 1907)				
• 12.2(18)SXF3	951109000Z			
• 12.2(33)SRA	951109000Z			
• 12.2(33)SRB	951109000Z			
• 12.2(33)SRC	951109000Z			
SONET-MIB (RFC 1595, 2558)				
• 12.2(18)SXF3	940103000Z			
• 12.2(33)SRA	981019000Z			
• 12.2(33)SRB	981019000Z			
• 12.2(33)SRC	981019000Z			
SOURCE-ROUTING-MIB (RFC 1525)				
• 12.2(18)SXF3			Revision not available	
• 12.2(33)SRA				Y
• 12.2(33)SRB				Y
• 12.2(33)SRC				Y
TCP-MIB				
• 12.2(18)SXF3		941101000Z		
• 12.2(33)SRA		941101000Z		
• 12.2(33)SRB		941101000Z		
• 12.2(33)SRC		941101000Z		
TUNNEL-MIB				
• 12.2(18)SXF3				Y
• 12.2(33)SRA				Y
• 12.2(33)SRB	20050516000Z			
• 12.2(33)SRC	20050516000Z			
UDP-MIB				
• 12.2(18)SXF3		941101000Z		

Table 3-1 *MIBs in 7600 Series Routers (continued)*

MIB	Supported and Verified	Supported and Unverified	Unsupported or Unverified	Not in Image
• 12.2(33)SRA		9411010000Z		
• 12.2(33)SRB		9411010000Z		
• 12.2(33)SRC		9411010000Z		

MIB Notification Names in 7600 Series Routers

Table 3-2 lists the Notification Names associated with MIBs in 7600 Series Routers:

Table 3-2 MIB Notification names in 7600 Series Routers

MIB	Notification Name	Supported and Verified	Supported and Unverified	Unsupported or Unverified	Not in Image
BGP4-MIB	bgpEstablished, bgpBackwardTransition				
• 12.2(18)SXF3		9405050000Z			
• 12.2(33)SRA		9405050000Z			
• 12.2(33)SRB		9405050000Z			
• 12.2(33)SRC		9405050000Z			
BRIDGE-MIB	newRoot, topologyChange				
• 12.2(18)SXF3		Revision not available			
• 12.2(33)SRA		Revision not available			
• 12.2(33)SRB		Revision not available			
• 12.2(33)SRC		Revision not available			
CISCO-ALPS-MIB	alpsPeerStatusChange, alpsCktStatusChange, alpsAscuStatusChange, alpsPeerConnStatusChange, alpsCktOpenFailure, alpsCktPartialReject				
• 12.2(18)SXF3		200001280000Z			
• 12.2(33)SRA					Y
• 12.2(33)SRB					Y
• 12.2(33)SRC					Y

Table 3-2 MIB Notification names in 7600 Series Routers (continued)

MIB	Notification Name	Supported and Verified	Supported and Unverified	Unsupported or Unverified	Not in Image
CISCO-ATM-PVC-TRAP-EXTN-MIB	catmIntfPvcUpTrap, catmIntfPvcOAMFailureTrap, catmIntfPvcSegCCOAMFailureTrap, catmIntfPvcEndCCOAMFailureTrap, catmIntfPvcAISRDIOAMFailureTrap, catmIntfPvcAnyOAMFailureTrap, catmIntfPvcOAMRecoverTrap, catmIntfPvcSegCCOAMRecoverTrap, catmIntfPvcEndCCOAMRecoverTrap, catmIntfPvcAISRDIOAMRecoverTrap, catmIntfPvcAnyOAMRecoverTrap, catmIntfPvcUp2Trap, catmIntfPvcDownTrap, catmIntfPvcSegAISRDIFailureTrap, catmIntfPvcEndAISRDIFailureTrap, catmIntfPvcSegAISRDIREcoverTrap, catmIntfPvcEndAISRDIREcoverTrap				
• 12.2(18)SXF3					Y
• 12.2(33)SRA					Y
• 12.2(33)SRB					Y
• 12.2(33)SRC				200303240000Z	
CISCO-BGP4-MIB	cbgpFsmStateChange, cbgpBackwardTransition, cbgpPrefixThresholdExceeded, cbgpPrefixThresholdClear				
• 12.2(18)SXF3		200108130000Z			
• 12.2(33)SRA		200302240000Z			
• 12.2(33)SRB		200302240000Z			
• 12.2(33)SRC		200302240000Z			
CISCO-BSTUN-MIB	bstunPeerStateChangeNotification				
• 12.2(18)SXF3				9701220000Z	

Table 3-2 MIB Notification names in 7600 Series Routers (continued)

MIB	Notification Name	Supported and Verified	Supported and Unverified	Unsupported or Unverified	Not in Image
• 12.2(33)SRA					Y
• 12.2(33)SRB					Y
• 12.2(33)SRC					Y
CISCO-BULK-FILE-MIB	cbfDefineFileCompletion				
• 12.2(18)SXF3		9810291700Z			
• 12.2(33)SRA		9810291700Z			
• 12.2(33)SRB		9810291700Z			
• 12.2(33)SRC			200108220000Z		
CISCO-CALLHOME-MIB	ccmSmtplibServerFailNotif, ccmAlertGroupTypeAddedNotif, ccmAlertGroupTypeDeletedNotif, ccmSmtplibMsgSendFailNotif				
• 12.2(18)SXF3					Y
• 12.2(33)SRA					Y
• 12.2(33)SRB					Y
• 12.2(33)SRC		200704060000Z			
CISCO-CAT6K-CROSS-BAR-MIB	cc6kxbarIntBusCRCErrorExcdNotif, cc6kxbarIntBusCRCErrorRcvrdNotif, cc6kxbarSwBusStatusChangeNotif				
• 12.2(18)SXF3		200411190000Z			
• 12.2(33)SRA		200411190000Z			
• 12.2(33)SRB		200411190000Z			
• 12.2(33)SRC		200411190000Z			
CISCO-CEF-MIB	cefResourceFailure, cefPeerStateChange, cefPeerFIBStateChange, cefInconsistencyDetection				
• 12.2(18)SXF3					Y
• 12.2(33)SRA					Y
• 12.2(33)SRB					Y
• 12.2(33)SRC			200601300000Z		
CISCO-CONFIG-COPY-MIB	ccCopyCompletion				
• 12.2(18)SXF3		9701150000Z			
• 12.2(33)SRA		200403170000Z			

Table 3-2 MIB Notification names in 7600 Series Routers (continued)

MIB	Notification Name	Supported and Verified	Supported and Unverified	Unsupported or Unverified	Not in Image
• 12.2(33)SRB		200403170000Z			
• 12.2(33)SRC				200608220000Z	
CISCO-CONFIG-MAN-MIB	ciscoConfigManEvent, ccmCLIRunningCon- figChanged, ccmCTIDRolledOver				
• 12.2(18)SXF3		9511280000Z			
• 12.2(33)SRA		9511280000Z			
• 12.2(33)SRB		200406180000Z			
• 12.2(33)SRC				200608220000Z	
CISCO-DATA-COLLECTION-MIB	cdeVFileCollectionError, cdcFileXferComplete				
• 12.2(18)SXF3					Y
• 12.2(33)SRA		200210300530Z			
• 12.2(33)SRB		200210300530Z			
• 12.2(33)SRC		200210300530Z			
CISCO-DLSW-EXT-MIB	cdeTrapTConnUpDown, cdeTrapCircuitUpDown				
• 12.2(18)SXF3				9703110000Z	
• 12.2(33)SRA					Y
• 12.2(33)SRB					Y
• 12.2(33)SRC					Y
CISCO-DLSW-MIB	ciscoDlswTrapTConnPartner- Reject, ciscoDlswTrapTConnProtVio- lation, ciscoDlswTrapTConnUp, ciscoDlswTrapTConnDown, ciscoDlswTrapCircuitUp, ciscoDlswTrapCircuitDown				
• 12.2(18)SXF3				9506300900Z	
• 12.2(33)SRA					Y
• 12.2(33)SRB					Y
• 12.2(33)SRC					Y

Table 3-2 MIB Notification names in 7600 Series Routers (continued)

MIB	Notification Name	Supported and Verified	Supported and Unverified	Unsupported or Unverified	Not in Image
CISCO-DSPU-MIB	dspuPuStateChangeTrap, dspuPuActivationFailureTrap, newdspuPuStateChangeTrap, newdspuPuActivationFailureTrap, dspuLuStateChangeTrap, newdspuLuStateChangeTrap, dspuLuActivationFailureTrap, dspuSapStateChangeTrap				
• 12.2(18)SXF3				9508150000Z	
• 12.2(33)SRA					Y
• 12.2(33)SRB					Y
• 12.2(33)SRC					Y
CISCO-ENHANCED-MEMORY-POOL-MIB	cempMemBufferNotify				
• 12.2(18)SXF3		200106050000Z			
• 12.2(33)SRA		200302240000Z			
• 12.2(33)SRB		200302240000Z			
• 12.2(33)SRC		200302240000Z			
CISCO-ENTITY-ALARM-MIB	ceAlarmAsserted, ceAlarmCleared				
• 12.2(18)SXF3		9907062150Z			
• 12.2(33)SRA		9907062150Z			
• 12.2(33)SRB		9907062150Z			
• 12.2(33)SRC		9907062150Z			
CISCO-ENTITY-FRU-CONTROL-MIB	cefcModuleStatusChange, cefcPowerStatusChange, cefcFRUInserted, cefcFRURemoved				
• 12.2(18)SXF3		200310230000Z			
• 12.2(33)SRA		200310230000Z			
• 12.2(33)SRB		200310230000Z			
• 12.2(33)SRC		200310230000Z			
CISCO-ENTITY-SENSOR-MIB	entSensorThresholdNotification				
• 12.2(18)SXF3		200301070000Z			
• 12.2(33)SRA		200509080000Z			
• 12.2(33)SRB		200601010000Z			
• 12.2(33)SRC		200601010000Z			

Table 3-2 MIB Notification names in 7600 Series Routers (continued)

MIB	Notification Name	Supported and Verified	Supported and Unverified	Unsupported or Unverified	Not in Image
CISCO-ENVMON-MIB	ciscoEnvMonShutdownNotification, ciscoEnvMonFanNotification, ciscoEnvMonFanStatus-ChangeNotif, ciscoEnvMonRedundantSupplyNotification, ciscoEnvMonSuppStatus-ChangeNotif, ciscoEnvMonTemperatureNotification				
• 12.2(18)SXF3		200207170000Z			
• 12.2(33)SRA		200207170000Z			
• 12.2(33)SRB		200207170000Z			
• 12.2(33)SRC		200207170000Z			
CISCO-ERM-MIB	ciscoErmGlobalPolicyViolation, ciscoErmLocalPolicyViolation				
• 12.2(18)SXF3					Y
• 12.2(33)SRA					Y
• 12.2(33)SRB				200602110000Z	
• 12.2(33)SRC				200602110000Z	
CISCO-ETHER-CFM-MIB	cEtherCfmCcMepUp, cEtherCfmCcMepDown, cEtherCfmCcCrossconnect, cEtherCfmCcLoop, cEtherCfmCcConfigError, cEtherCfmXCheckMissing, cEtherCfmXCheckUnknown, cEtherCfmXCheckServiceUp				
• 12.2(18)SXF3					Y
• 12.2(33)SRA				200412280000Z	
• 12.2(33)SRB			200412280000Z		
• 12.2(33)SRC			200412280000Z		
CISCO-FLASH-MIB	ciscoFlashCopyCompletion-Trap, ciscoFlashDeviceChangeTrap, ciscoFlashDeviceInsertedNotif, ciscoFlashDeviceRemovedNotif, ciscoFlashMiscOpCompletion-Trap				

Table 3-2 MIB Notification names in 7600 Series Routers (continued)

MIB	Notification Name	Supported and Verified	Supported and Unverified	Unsupported or Unverified	Not in Image
• 12.2(18)SXF3		200301311234Z			
• 12.2(33)SRA		200301311234Z			
• 12.2(33)SRB		200403180000Z			
• 12.2(33)SRC		200403180000Z			
CISCO-FLEX-LINKS-MIB	cfIfStatusChangeNotif				
• 12.2(18)SXF3		200504250000Z			
• 12.2(33)SRA		200504250000Z			
• 12.2(33)SRB		200504250000Z			
• 12.2(33)SRC		200504250000Z			
CISCO-HSRP-MIB	cHsrpStateChange				
• 12.2(18)SXF3				9808030000Z	
• 12.2(33)SRA				9808030000Z	
• 12.2(33)SRB				9808030000Z	
• 12.2(33)SRC				9808030000Z	
CISCO-IETF-ATM2-PVC-TRAP-MIB-EXTN	atmIntfPvcUpTrap, atmIntfPvcOAMFailureTrap				
• 12.2(18)SXF3					Y
• 12.2(33)SRA					Y
• 12.2(33)SRB					Y
• 12.2(33)SRC				200007110000Z	
CISCO-IETF-DHCP-SERVER-EXT-MIB	cDhcpv4ServerIfLeaseLimitExceeded, cDhcpv4ServerSubnetFreeAddressLow, cDhcpv4ServerSubnetFreeAddressHigh				
• 12.2(18)SXF3					Y
• 12.2(33)SRA					Y
• 12.2(33)SRB					Y
• 12.2(33)SRC				200703151200Z	
CISCO-IETF-DHCP-SERVER-MIB	cDhcpv4ServerFreeAddressLow, cDhcpv4ServerFreeAddressHigh, cDhcpv4ServerStartTime, cDhcpv4ServerStopTime, cDhcpv4ServerDuplicateAddress				
• 12.2(18)SXF3					Y

Table 3-2 MIB Notification names in 7600 Series Routers (continued)

MIB	Notification Name	Supported and Verified	Supported and Unverified	Unsupported or Unverified	Not in Image
• 12.2(33)SRA					Y
• 12.2(33)SRB					Y
• 12.2(33)SRC				200703270000Z	
CISCO-IETF-FRR-MIB	cmplsFrrProtected				
• 12.2(18)SXF3					Y
• 12.2(33)SRA				200211051200Z	
• 12.2(33)SRB				200211051200Z	
• 12.2(33)SRC				200211051200Z	
CISCO-IETF-ISIS-MIB	ciiDatabaseOverload, ciiManualAddressDrops, ciiCorruptedLSPDetected, ciiAttemptToExceedMaxSe- quence, ciiIDLenMismatch, ciiMaxAreaAddressesMis- match, ciiOwnLSPPurge, ciiSequenceNumberSkip, ciiAuthenticationTypeFailure, ciiAuthenticationFailure, ciiVersionSkew, ciiAreaMismatch, ciiRejectedAdjacency, ciiLSPTooLargeToPropagate, ciiOrigLSPBuffSizeMismatch, ciiProtocolsSupportedMis- match, ciiAdjacencyChange, ciiLSPErrorDetected				
• 12.2(18)SXF3					Y
• 12.2(33)SRA					Y
• 12.2(33)SRB			200508161200Z		
• 12.2(33)SRC					Y
CISCO-IETF-PPVPN-MPLS-V PN-MIB	cMplsNumVrfRo- uteMaxThreshCleared				
• 12.2(18)SXF3					Y
• 12.2(33)SRA			200304171200Z		
• 12.2(33)SRB			200304171200Z		
• 12.2(33)SRC			200304171200Z		
CISCO-IETF-PW-MIB	cpwVcDown, cpwVcUp				

Table 3-2 MIB Notification names in 7600 Series Routers (continued)

MIB	Notification Name	Supported and Verified	Supported and Unverified	Unsupported or Unverified	Not in Image
• 12.2(18)SXF3					Y
• 12.2(33)SRA		200403171200Z			
• 12.2(33)SRB		200403171200Z			
• 12.2(33)SRC		200403171200Z			
CISCO-IP-STAT-MIB	ciscoIpMRouteMissingHeart-Beats				
• 12.2(18)SXF3			200012220000Z		
• 12.2(33)SRA			200503070000Z		
• 12.2(33)SRB			200503070000Z		
• 12.2(33)SRC			200503070000Z		
CISCO-L2-CONTROL-MIB	clcVlanMacLimitNotif				
• 12.2(18)SXF3		200306011700Z			
• 12.2(33)SRA		200306011700Z			
• 12.2(33)SRB		200306011700Z			
• 12.2(33)SRC		200306011700Z			
CISCO-MAC-NOTIFICATION-MIB	cmnMacChangedNotification, cmnMacMoveNotification, cmnMacThresholdExceedNotif				
• 12.2(18)SXF3		200303210000Z			
• 12.2(33)SRA		200303210000Z			
• 12.2(33)SRB		200303210000Z			
• 12.2(33)SRC			200706110000Z		
CISCO-MVPN-MIB	ciscoMvpnMvrfChange				
• 12.2(18)SXF3					Y
• 12.2(33)SRA			200402231200Z		
• 12.2(33)SRB			200402231200Z		
• 12.2(33)SRC			200402231200Z		

Table 3-2 MIB Notification names in 7600 Series Routers (continued)

MIB	Notification Name	Supported and Verified	Supported and Unverified	Unsupported or Unverified	Not in Image
CISCO-OSPF-TRAP-MIB	cospfIfConfigError, cospfVirtIfConfigError, cospfTxRetransmit, cospfVirtIfTxRetransmit, cospfOriginateLsa, cospfMaxAgeLsa, cospfNssaTranslatorStatus- Change, cospfShamLinkStateChange, cospfShamLinksStateChange, cospfShamLinkNbrState- Change, cospfShamLinkConfigError, cospfShamLinkAuthFailure, cospfShamLinkRxBadPacket, cospfShamLinkTxRetransmit				
• 12.2(18)SXF3		200302270000Z			
• 12.2(33)SRA		200302270000Z			
• 12.2(33)SRB		200302270000Z			
• 12.2(33)SRC		200302270000Z			
CISCO-PAE-MIB	cpaeNoGuestVlanNotif, cpaeNoAuthFailVlanNotif				
• 12.2(18)SXF3		200105241016Z			
• 12.2(33)SRA		200302260000Z			
• 12.2(33)SRB		200604120000Z			
• 12.2(33)SRC		200604120000Z			
CISCO-PIM-MIB	pimNeighborLoss (RFC 2934), ciscoPimInterfaceUp, ciscoPimInterfaceDown, ciscoPimRPMappingChange, ciscoPimInvalidRegister, ciscoPimInvalidJoinPrune				
• 12.2(18)SXF3			200011020000Z		
• 12.2(33)SRA			200011020000Z		
• 12.2(33)SRB			200011020000Z		
• 12.2(33)SRC			200011020000Z		
CISCO-PING-MIB	ciscoPingCompletion				
• 12.2(18)SXF3		200108280000Z			
• 12.2(33)SRA		200108280000Z			
• 12.2(33)SRB		200108280000Z			
• 12.2(33)SRC		200108280000Z			

Table 3-2 MIB Notification names in 7600 Series Routers (continued)

MIB	Notification Name	Supported and Verified	Supported and Unverified	Unsupported or Unverified	Not in Image
CISCO-PORT-SECURITY-MIB	cpsIfVlanSecureMacAddrViolation, cpsSecureMacAddrViolation				
• 12.2(18)SXF3		200504190000Z			
• 12.2(33)SRA		200504190000Z			
• 12.2(33)SRB		200504190000Z			
• 12.2(33)SRC		200504190000Z			
CISCO-PPPOE-MIB	cPppoeSystemSessionThresholdTrap, cPppoeVcSessionThresholdTrap				
• 12.2(18)SXF3					Y
• 12.2(33)SRA					Y
• 12.2(33)SRB					Y
• 12.2(33)SRC				200102200000Z	
CISCO-PROCESS-MIB	cpmCPURisingThreshold, cpmCPUFallingThreshold				
• 12.2(18)SXF3		200105180000Z			
• 12.2(33)SRA		200301220000Z			
• 12.2(33)SRB		200301220000Z			
• 12.2(33)SRC		200301220000Z			
CISCO-RESILIENT-ETHER-NET-PROTOCOL-MIB	crepLinkStatus, crepPreemptionStatus, crepPortRoleChange				
• 12.2(18)SXF3					Y
• 12.2(33)SRA					Y
• 12.2(33)SRB					Y
• 12.2(33)SRC			200705220000Z		
CISCO-RF-MIB	ciscoRFSwactNotif, ciscoRFProgressionNotif, ciscoRFIssuStateNotif				
• 12.2(18)SXF3		200107200000Z			
• 12.2(33)SRA		200404030000Z			
• 12.2(33)SRB		200404030000Z			
• 12.2(33)SRC		200404030000Z			
CISCO-RSRB-MIB	rsrbPeerStateChangeNotification				

Table 3-2 MIB Notification names in 7600 Series Routers (continued)

MIB	Notification Name	Supported and Verified	Supported and Unverified	Unsupported or Unverified	Not in Image
• 12.2(18)SXF3				9508210000Z	
• 12.2(33)SRA					Y
• 12.2(33)SRB					Y
• 12.2(33)SRC					Y
CISCO-RTTMON-MIB	rttMonConnectionChangeNotification, ttMonTimeoutNotification, rttMonThresholdNotification				
• 12.2(18)SXF3		0104230000Z			
• 12.2(33)SRA		200401200000Z			
• 12.2(33)SRB		200603020000Z			
• 12.2(33)SRC		200603020000Z			
CISCO-SDLLC-MIB	convSdllcPeerStateChangeNotification				
• 12.2(18)SXF3				9508210000Z	
• 12.2(33)SRA					Y
• 12.2(33)SRB					Y
• 12.2(33)SRC					Y
CISCO-SONET-MIB	ciscoSonetSectionStatusChange, ciscoSonetLineStatusChange, ciscoSonetPathStatusChange				
• 12.2(18)SXF3		200205220000Z			
• 12.2(33)SRA		200205220000Z			
• 12.2(33)SRB		200205220000Z			
• 12.2(33)SRC		200205220000Z			
CISCO-SRP-MIB	srpTrapRingWrapped, srpTrapRingRestored				
• 12.2(18)SXF3				200103280000Z	
• 12.2(33)SRA				200103280000Z	
• 12.2(33)SRB				200103280000Z	
• 12.2(33)SRC					Y
CISCO-STACK-MIB	moduleUp, moduleDown, chassisAlarmOn, chassisAlarmOff				
• 12.2(18)SXF3		200305290000Z			
• 12.2(33)SRA		200305290000Z			

Table 3-2 MIB Notification names in 7600 Series Routers (continued)

MIB	Notification Name	Supported and Verified	Supported and Unverified	Unsupported or Unverified	Not in Image
• 12.2(33)SRB		200305290000Z			
• 12.2(33)SRC		200305290000Z			
CISCO-STP-EXTENSIONS-MIB	stpInconsistencyUpdate, stpLoopInconsistencyUpdate, stpRootInconsistencyUpdate				
• 12.2(18)SXF3		200503020000Z			
• 12.2(33)SRA		200503020000Z			
• 12.2(33)SRB		200503020000Z			
• 12.2(33)SRC		200503020000Z			
CISCO-STUN-MIB	stunPeerStateChangeNotification				
• 12.2(18)SXF3				9508210000Z	
• 12.2(33)SRA					Y
• 12.2(33)SRB					Y
• 12.2(33)SRC					Y
CISCO-SYSLOG-MIB	clogMessageGenerated				
• 12.2(18)SXF3		9508070000Z			
• 12.2(33)SRA		9508070000Z			
• 12.2(33)SRB		9508070000Z			
• 12.2(33)SRC		9508070000Z			
CISCO-TAP2-MIB	ciscoTap2MIBActive, ciscoTap2MediationTimedOut, ciscoTap2MediationDebug, ciscoTap2StreamDebug, ciscoTap2Switchover				
• 12.2(18)SXF3					Y
• 12.2(33)SRA					Y
• 12.2(33)SRB			200611270000Z		
• 12.2(33)SRC			200611270000Z		
CISCO-VLAN-MEMBERSHIP-MIB	vmVmpsChange				
• 12.2(18)SXF3		200404070000Z			
• 12.2(33)SRA		200404070000Z			
• 12.2(33)SRB		200404070000Z			
• 12.2(33)SRC		200404070000Z			
CISCO-VOICE-MON-DIAL-CONTROL-MIB	cvdcPoorQoVNotification				
• 12.2(18)SXF3				200109050000Z	

Table 3-2 MIB Notification names in 7600 Series Routers (continued)

MIB	Notification Name	Supported and Verified	Supported and Unverified	Unsupported or Unverified	Not in Image
• 12.2(33)SRA				200109050000Z	
• 12.2(33)SRB					Y
• 12.2(33)SRC					Y
CISCO-VPDN-MGMT-MIB	cvpdnNotifSession				
• 12.2(18)SXF3					Y
• 12.2(33)SRA					Y
• 12.2(33)SRB					Y
• 12.2(33)SRC				200601200000Z	
CISCO-VTP-MIB	vtpConfigDigestError, vtpConfigRevNumberError, vtpLocalModeChanged, vlanTrunkPortDynamicStatus- Change, vtpVlanCreated, vtpVlanDeleted, vtpVersionInUseChanged, vtpVersionOneDeviceDetected				
• 12.2(18)SXF3		200311210000Z			
• 12.2(33)SRA		200311210000Z			
• 12.2(33)SRB		200311210000Z			
• 12.2(33)SRC		200311210000Z			
DIAL-CONTROL-MIB	dialCtlPeerCallInformation, dialCtlPeerCallSetup				
• 12.2(18)SXF3				9609231544Z	
• 12.2(33)SRA				9609231544Z	
• 12.2(33)SRB				9609231544Z	
• 12.2(33)SRC					Y
DLSW-MIB	dlswTrapTConnPartnerReject, dlswTrapTConnProtViolation, dlswTrapTConnUp, dlswTrapTConnDown, dlswTrapCircuitUp, dlswTrapCircuitDown				
• 12.2(18)SXF3				9512050000Z	
• 12.2(33)SRA					Y
• 12.2(33)SRB					Y
• 12.2(33)SRC					Y
DS1-MIB (RFC 1406, 2495, 2495)	dsx1LineStatusChange				

Table 3-2 MIB Notification names in 7600 Series Routers (continued)

MIB	Notification Name	Supported and Verified	Supported and Unverified	Unsupported or Unverified	Not in Image
• 12.2(18)SXF3		Revision not available			
• 12.2(33)SRA		9808011830Z			
• 12.2(33)SRB		9808011830Z			
• 12.2(33)SRC		9808011830Z			
ENTITY-MIB (RFC 2737)	entConfigChange				
• 12.2(18)SXF3		9912070000Z			
• 12.2(33)SRA		9912070000Z			
• 12.2(33)SRB		9912070000Z			
• 12.2(33)SRC		9912070000Z			
EVENT-MIB	mteTriggerFired, mteTriggerRising, mteTriggerFalling, mteTriggerFailure, mteEventSetFailure				
• 12.2(18)SXF3				9902221700Z	
• 12.2(33)SRA				200010160000Z	
• 12.2(33)SRB				200010160000Z	
• 12.2(33)SRC				200010160000Z	
FR-MFR-MIB	mfrMibTrapBundleLinkMismatch				
• 12.2(18)SXF3					Y
• 12.2(33)SRA					Y
• 12.2(33)SRB					Y
• 12.2(33)SRC				200011300000Z	
IEEE8021-CFM-MIB	dot1agCfmFaultAlarm				
• 12.2(18)SXF3					Y
• 12.2(33)SRA					Y
• 12.2(33)SRB				200608220100Z	
• 12.2(33)SRC				200608220100Z	
IF-MIB (RFC 2863)	linkDown, linkUp				
• 12.2(18)SXF3		9611031355Z			
• 12.2(33)SRA		9611031355Z			
• 12.2(33)SRB		9611031355Z			
• 12.2(33)SRC		9611031355Z			
LLDP-MIB	lldpRemTablesChange				

Table 3-2 MIB Notification names in 7600 Series Routers (continued)

MIB	Notification Name	Supported and Verified	Supported and Unverified	Unsupported or Unverified	Not in Image
• 12.2(18)SXF3					Y
• 12.2(33)SRA					Y
• 12.2(33)SRB				200505060000Z	
• 12.2(33)SRC				200505060000Z	
MPLS-LDP-MIB	mplsLdpInitSesThresholdExceeded, mplsLdpPVLMismatch, mplsLdpSessionDown				
• 12.2(18)SXF3		200108161200Z			
• 12.2(33)SRA		200108161200Z			
• 12.2(33)SRB					Y
• 12.2(33)SRC					Y
MPLS-LDP-STD-MIB (RFC 3815)	mplsLdpInitSessionThresholdExceeded, mplsLdpPathVectorLimitMismatch, mplsLdpSessionUp, mplsLdpSessionDown				
• 12.2(18)SXF3					Y
• 12.2(33)SRA					Y
• 12.2(33)SRB			200406030000Z		
• 12.2(33)SRC			200406030000Z		
MPLS-LSR-MIB	mplsXCUp, mplsXCDown				
• 12.2(18)SXF3		200004261200Z			
• 12.2(33)SRA		200004261200Z			
• 12.2(33)SRB					Y
• 12.2(33)SRC					Y
MPLS-LSR-STD-MIB (RFC 3031)	mplsXCUp, mplsXCDown				
• 12.2(18)SXF3					Y
• 12.2(33)SRA					Y
• 12.2(33)SRB			200406030000Z		
• 12.2(33)SRC			200406030000Z		

Table 3-2 MIB Notification names in 7600 Series Routers (continued)

MIB	Notification Name	Supported and Verified	Supported and Unverified	Unsupported or Unverified	Not in Image
MPLS-L3VPN-STD-MIB	mplsL3VpnVrfUp, mplsL3VpnVrfDown, mplsL3VpnVrfRouteMidThreshExceeded, mplsL3VpnVrfNumVrfRouteMaxThreshExceeded, mplsL3VpnNumVrfSecIlglLblThrshExcd, mplsL3VpnNumVrfRouteMaxThreshCleared				
• 12.2(18)SXF3					Y
• 12.2(33)SRA					Y
• 12.2(33)SRB					Y
• 12.2(33)SRC				200601230000Z	
MPLS-TE-MIB	mplsTunnelDown, mplsTunnelUp, mplsTunnelRerouted				
• 12.2(18)SXF3		200011211200Z			
• 12.2(33)SRA		200011211200Z			
• 12.2(33)SRB		200011211200Z			
• 12.2(33)SRC		200011211200Z			
MPLS-VPN-MIB	mplsNumVrfRouteMidThreshExceeded, mplsNumVrfRouteMaxThreshExceeded, mplsNumVrfSecIllegalLabelThreshExceeded, mplsVrfIfDown, mplsVrfIfUp				
• 12.2(18)SXF3				200110151200Z	
• 12.2(33)SRA		200110151200Z			
• 12.2(33)SRB		200110151200Z			
• 12.2(33)SRC		200110151200Z			
MSDP-MIB	msdpEstablished, msdpBackwardTransition				
• 12.2(18)SXF3			9912160000Z		
• 12.2(33)SRA			9912160000Z		
• 12.2(33)SRB			9912160000Z		
• 12.2(33)SRC			9912160000Z		

Table 3-2 MIB Notification names in 7600 Series Routers (continued)

MIB	Notification Name	Supported and Verified	Supported and Unverified	Unsupported or Unverified	Not in Image
OSPF-TRAP-MIB	ospfIfStateChange, ospfVirtIfStateChange, ospfNbrStateChange, ospfVirtNbrStateChange, ospfIfConfigError, ospfVirtIfConfigError, ospfIfAuthFailure, ospfVirtIfAuthFailure, ospfIfRxBadPacket, ospfVirtIfRxBadPacket, ospfTxRetransmit, ospfVirtIfTxRetransmit, ospfOriginateLsa, ospfMaxAgeLsa, ospfLsdbOverflow, ospfLsdbApproachingOverflow				
• 12.2(18)SXF3		9501201225Z			
• 12.2(33)SRA		9501201225Z			
• 12.2(33)SRB		9501201225Z			
• 12.2(33)SRC		9501201225Z			
PIM-MIB (RFC 2934)	pimNeighborLoss				
• 12.2(18)SXF3			200009280000Z		
• 12.2(33)SRA			200009280000Z		
• 12.2(33)SRB			200009280000Z		
• 12.2(33)SRC			200009280000Z		
RMON-MIB (RFC 1757)	fallingAlarm, risingAlarm				
• 12.2(18)SXF3		Revision not available			
• 12.2(33)SRA		Revision not available			
• 12.2(33)SRB		Revision not available			
• 12.2(33)SRC		Revision not available			
SNA-SDLC-MIB	sdhcPortStatusChange, sdhcLSSStatusChange, sdhcLSSStatusChange1				
• 12.2(18)SXF3				9411150000Z	
• 12.2(33)SRA					Y

Table 3-2 MIB Notification names in 7600 Series Routers (continued)

MIB	Notification Name	Supported and Verified	Supported and Unverified	Unsupported or Unverified	Not in Image
• 12.2(33)SRB					Y
• 12.2(33)SRC					Y

**Note**

The 3rd 12.2(18)SXF rebuild (12.2(18)SXF3) release was used because later releases include features not supported by c7600 SR releases. Feature parity is up to SXF3.

ATM-MIB

The ATM-MIB (RFC 1695) contains the ATM and ATM adaptation Layer 5 (AAL5) objects used to manage logical and physical entities and the relationship between them, such as ATM interfaces, virtual links, cross connects, and AAL5 entities and connections.

MIB Constraints

Table 3-3 lists the constraints that the Cisco 7600 Series router places on objects in the ATM-MIB. For detailed definitions of MIB objects, see the MIB.

Table 3-3 ATM-MIB Constraints

MIB Object	Notes
atmInterfaceDs3PlcpTable	Not implemented.
atmInterfaceTCTable	Not implemented.
atmTrafficDescrParamTable	Read-only.
atmVpTable	Not implemented.
atmVclTable	
• atmVclAdminStatus	Read-only.
• atmVclReceiveTrafficDescrIndex	Read-only.
• atmVclTransmitTrafficDescrIndex	Read-only.
• atmVccAalType	Read-only.
• atmVccAal5CpcsTransmitSduSize	Read-only.
• atmVccAal5CpcsReceiveSduSize	Read-only.
• atmVccAal5EncapsType	Read-only.
• atmVclCrossConnectIdentifier	Read-only.
• atmVclRowStatus	Read-only.
atmVpCrossConnectTable	Not implemented.
• atmVpCrossConnectIndexNext	Not implemented.
atmVcCrossConnectTable	Not implemented.
• atmVcCrossConnectIndexNext	Not implemented.

* The ifType for the ifIndex used in the ATM-MIB tables must be type atm(37).

BGP4-MIB

The BGP4-MIB (RFC 1657) provides access to information related to the implementation of the Border Gateway Protocol (BGP). The MIB provides:

- BGP configuration information
- Information about BGP peers and messages exchanged with them
- Information about advertised networks

BRIDGE-MIB

The BRIDGE-MIB contains objects to manage Media Access Control (MAC) bridges between Local Area Network (LAN) segments, as defined by the IEEE 802.1D-1990 standard. This MIB is extracted from RFC 1493 and is intended for use with network management protocols in TCP/IP based internets.

CISCO-802-TAP-MIB

The CISCO-802-TAP-MIB contains object to manage IEEE 802 intercept.

CISCO-AAA-SESSION-MIB

The CISCO-AAA-SESSION-MIB contains information about accounting sessions based on authentication, authorization, and accounting (AAA) protocols.

CISCO-AAL5-MIB

The CISCO-AAL5-MIB contains performance statistics for ATM adaptation Layer 5 (AAL5) virtual channel connections (VCCs). This MIB provides statistics not found in the aal5VccTable in RFC 1695 (for example, packets and octets received and transmitted on the VCC).

CISCO-ACCESS-ENVMON-MIB

The CISCO-ACCESS-ENVMON-MIB indicates the reason for a power supply failure, which is information that is not provided in the ciscoEnvMonSupplyStatusTable in the CISCO-ENVMON-MIB. The CISCO-ACCESS-ENVMON-MIB also defines temperature and voltage notifications to replace those in CISCO-ENVMON-MIB.

CISCO-ALPS-MIB

The CISCO-ALPS-MIB provides Cisco airline protocol support for IBM-P1024B(ALC) and Unisys-P1024C(UTS) protocol encapsulation over TCP/IP. The MIB contains configuration and operational information for the protocol, which provides a tunneling mechanism to transport airline protocol data across a Cisco router-based TCP/IP network to an X.25-attached mainframe.

CISCO-ASPP-MIB

The CISCO-ASPP-MIB provides configuration and operational information on asynchronous-pollled protocols such as the asynchronous security protocols that alarm monitoring companies use.

CISCO-ATM-EXT-MIB

The CISCO-ATM-EXT-MIB contains extensions to the Cisco ATM module that are used to manage ATM entities. It provides additional AAL5 performance statistics for a virtual channel connection (VCC) on an ATM interface.

**Note**

The cAal5VccExtTable augments the aal5VccTable of the ATM-MIB. The aal5VccTable contains additional AAL5 performance parameters.

CISCO-ATM-PVC-MIB

The CISCO-ATM-PVC-MIB contains objects to configure a permanent virtual circuit (PVC) on an ATM uplink card, and bind the PVC to a virtual LAN (VLAN). This allows the PVC to carry bridged PDUs (BPDUs) using the encapsulation method described in RFC 1483, which is an alternative to using LAN emulation to transfer BPDUs.

CISCO-ATM-PVCTRAP-EXTN-MIB

The CISCO-ATM-PVCTRAP-EXTN-MIB supplements to the CISCO-IETF-ATM2-PVCTRAP-MIB.

CISCO-ATM-QOS-MIB

The CISCO-ATM-QOS-MIB is created to provide ATM QoS information in the following areas:

- Traffic shaping on a per-VC basis
- Traffic shaping on a per-VP basis
- Per-VC queuing/buffering.

CISCO-BCP-MIB

The CISCO-BCP-MIB (based on RFC 2878) (Bridging Control Protocol) contains objects to configure, enable, and disable bridge modules on both ends of point-to-point links. The Cisco 7600 series Internet router uses the BCP for transporting Ethernet frames over SONET and DPT networks. The BCP-MIB manages and monitors Bridge Control Protocol configuration and information on subnetwork interfaces using the family of Point-to-Point Protocols.

MIB Constraints

[Table 3-4](#) lists the constraints that the router places on objects in the CISCO-BCP-MIB. For detailed definitions of MIB objects, see the MIB.

Table 3-4 CISCO-BCP-MIB Constraints

MIB Object	Notes
bcpConfigTable	
• bcpConfigBridgeIdControl	Read-only. Always disabled
• bcpConfigBridgeId	Always 0. BcpConfigBridgeIdControl must be enabled to have value.
• bcpConfigLineIdControl	Read-only. Always disabled
• bcpConfigLineId	Always 0. BcpConfigLineIdControl must be enabled to have value.
• bcpConfigMacSupport	Read-only. Always disabled
• bcpConfigMacType	Always 0. BcpConfigMacControl must be enabled to have value.
• bcpConfigTinygram	Read-only. Always disabled
• bcpConfigMacAddressControl	Read-only. Always disabled
• bcpConfigMacAddress	Read-only. Always 0000.0000.0000, since this is meaningful only if BcpConfigMacAddressControl is enabled.
• bcpConfigSpanTreeControl	Read-only. Always disabled
• bcpConfigSpanTree	Read-only. Always null (0). BcpConfigSpanTreeControl must be enabled to have value.
* If there is an entry in the ifTable with ifType ppp(23), there will be an entry in both the bcpOperTable and bcpConfigTable.	
* The CISCO-BCP-MIB supports interfaces configured with bridge-enabled only, which means if no "bridge-enable" is configured, there will be no such entry for this interface when the user pulls the bcpOperTable or bcpConfigTable by SNMP.	

CISCO-BGP-POLICY-ACCOUNTING-MIB

The CISCO-BGP-POLICY-ACCOUNTING-MIB contains BGP policy-based accounting information (such as ingress traffic on an interface), which can be used for billing purposes. The MIB provides support for BGP Policy Accounting, which enables you to classify IP traffic into different classes and to maintain statistics for each traffic class.

The MIB contains counts of the number of bytes and packets of each traffic type on each input interface. This information can be used to charge customers according to the route that their traffic travels.

CISCO-BGP4-MIB

The CISCO-BGP4-MIB provides access to information related to the implementation of the Border Gateway Protocol (BGP). The MIB provides:

- BGP configuration information
- Information about BGP peers and messages exchanged with them
- Information about advertised networks

CISCO-BRIDGE-EXT-MIB

The CISCO-BRIDGE-EXT-MIB extends the BRIDGE-MIB specified in RFC 1493.

CISCO-BSC-MIB

The CISCO-BSC-MIB contains objects to manage binary synchronous communications (BSC) on the router, including BSC ports (serial interfaces) and BSC control units (stations on a port).

CISCO-BSTUN-MIB

The CISCO-BSTUN-MIB contains objects to manage Block Serial Tunnels (BSTUNs) on the router. The MIB provides global BSTUN information and contains configuration and operational information to manage BSTUN groups, ports, and routes.

CISCO-BULK-FILE-MIB

The CISCO-BULK-FILE-MIB contains objects to create and delete files of SNMP data for bulk-file transfer.

MIB Constraints

[Table 3-5](#) lists the constraints that the router places on objects in the CISCO-BULK-FILE-MIB. For detailed definitions of MIB objects, see the MIB.

Table 3-5 CISCO-BULK-FILE-MIB Constraints

MIB Object	Notes
cbfDefineFileTable	
<ul style="list-style-type: none"> • cbfDefinedFileStorage 	<p>Only <i>ephemeral</i> type of file storage is supported.</p> <p>Note The ephemeral bulk file created can be moved to a remote FTP server using CISCO-FTP-CLIENT-MIB.</p>

Table 3-5 CISCO-BULK-FILE-MIB Constraints

MIB Object	Notes
<ul style="list-style-type: none"> cbfDefinedFileFormat 	Only <i>bulkBinary</i> and <i>bulkASCII</i> file formats are supported.

Note:

The cbfDefienFileTable has objects that are required for defining a bulk file and for controlling its creation. The cbfDefineObjectTable has information regarding the contents (SNMP data) that go into the bulk file.

When an entry in the cbfDefineFileTable and its corresponding entries in the cbfDefineObjectTable are active, then cbfDefineFileNow can then be set to create. This causes a bulkFile to be created as defined in cbfDefineFileTable and it will also create an entry in the cbfStatusFileTable.

CISCO-CABLE-DIAG-MIB

The CISCO-CABLE-DIAG-MIB module defines objects for managing cable diagnostic test capabilities supported by the Cisco devices.

Cable diagnostic tests are tests intended to exercise the functional integrity of the cable attached to a physical interface

CISCO-CALLHOME-MIB

The CISCO-CALLHOME-MIB module provides functionality to manage Call Home feature within the framework of Call Home architecture.

A customer might be deploying network solutions to run mission critical applications such as storage solutions that require high availability. Such customers need runtime support for their networking products. Cisco Call Home feature enables a system experiencing Hardware/Software problem to automatically send relevant failure information to the Support Center. The Support Center can use this information to provide immediate help in the form of troubleshooting or hardware replacement. This feature also provides functionality that allow storage systems to send performance, accounting, and system health information.

CISCO-CAR-MIB

The CISCO-CAR-MIB contains information about the Committed Access Rate (CAR) assigned to router interfaces. The CAR is used to control the rate of traffic on an interface for packet switching purposes. The MIB provides information about how the router is to handle traffic that conforms and exceeds the CAR on the interface.

CISCO-CASA-FA-MIB

The CISCO-CASA-FA-MIB is used in conjunction with the CISCO-CASA-MIB to manage a Cisco Appliance Services Architecture (CASA) forwarding agent (FA).

The CASA protocol allows *appliances* (software entities such as web caches, firewalls, and load balancers) to control the behavior of *forwarding agents* (hardware devices such as switches and routers). The appliance tells forwarding agents how to handle packets based on their source and destination IP addresses and ports, and IP protocol fields (this information is called an *affinity*).

CISCO-CASA-MIB

The CISCO-CASA-MIB contains objects to manage a Cisco Appliance Services Architecture (CASA) entity (such as a manager or a forwarding agent). The MIB contains objects to configure CASA, and to retrieve status and operational information about the fixed affinity cache.

The CASA protocol allows *appliances* (software entities such as web caches, firewalls, and load balancers) to control the behavior of *forwarding agents* (hardware devices such as switches and routers). The appliance tells forwarding agents how to handle packets based on their source and destination IP addresses and ports, and IP protocol fields (this information is called an *affinity*).

CISCO-CAT6K-CROSSBAR-MIB

The CISCO-CAT6K-CROSSBAR-MIB contains objects to configure and manage the crossbar-switching fabric module on Cisco Catalyst 6500 family switches.

CISCO-CDP-MIB

The CISCO-CDP-MIB contains objects to manage the Cisco Discovery Protocol (CDP) on the router.

CISCO-CEF-MIB

The CISCO-CEF-MIB contains objects to configure and monitor CEF related objects.

CISCO-CIRCUIT-INTERFACE-MIB

The CISCO-CIRCUIT-INTERFACE-MIB contains objects to configure the circuit description for an interface. The circuit description identifies circuits on interfaces such as ATM and Frame Relay, and might be used, for example, to correlate performance statistics on the corresponding interfaces.

CISCO-CLASS-BASED-QOS-MIB

The CISCO-CLASS-BASED-QOS-MIB provides only read access to quality of service (QoS) configuration information and statistics for Cisco platforms that support the modular Quality of Service command-line interface (modular QoS CLI).

To understand how to navigate the CISCO-CLASS-BASED-QOS-MIB tables, it is important to understand the relationship among different QoS objects. QoS objects consists of:

- Match Statement – the specific match criteria to identify packets for classification purposes.

- Class Map – a user-defined traffic class that contains 1 or more match statements used to classify packets into different categories.
- Feature Action – a QoS feature. Features include police, traffic shaping, queueing, random detect, and packet marking. After the traffic has been classified we apply actions to each traffic class.
- Policy Map – a user-defined policy that associates a QoS feature action to the user-defined class map.
- Service Policy – a policy map that has been attached to an interface.

The MIB uses the following indices to identify QoS features and distinguish among instances of those features:

- cbQoSObjectsIndex – identifies each QoS feature on the router.
- cbQoSConfigIndex n- identifies a type of QoS configuration. This index is shared by QoS objects that have identical configuration.
- cbQoSPolicyIndex – uniquely identifies a service policy.

QoS MIB information is stored in:

- Configuration instances – includes all class maps, policy map, match statements, and feature action configuration parameters. Might have multiple identical instances. Multiple instances of the same QoS feature share a single configuration object, which is identified by cbQoSConfigIndex.
- Runtime Statistics instances—Includes summary counts and rates by traffic class before and after any configured QoS policies are enforced. In addition, detailed feature-specific statistics are available for select PolicyMap features. Each has a unique runtime instance. Multiple instances of a QoS feature have a separate statistics object. Run-time instances of QoS objects are each assigned a unique identifier (cbQoSObjectsIndex) to distinguish among multiple objects with matching configurations.

CISCO-CONFIG-COPY-MIB

The CISCO-CONFIG-COPY-MIB contains objects to copy configuration files on the router. For example, the MIB enables the SNMP agent to copy:

- Configuration files to and from the network
- The running configuration to the startup configuration and startup to running
- The startup or running configuration files to and from a local Cisco IOS file system

CISCO-CONFIG-MAN-MIB

The CISCO-CONFIG-MAN-MIB contains objects to track and save changes to the router configuration. The MIB represents a model of the configuration data that exists elsewhere in the router and in peripheral devices. Its main purpose is to report changes to the running configuration through the SNMP notification ciscoConfigManEvent.

CISCO-CONTEXT-MAPPING-MIB

The CISCO-CONTEXT-MAPPING-MIB module provides mapping tables which contain the information that a single SNMP agent sometimes needs to support multiple instances of the same MIB module. In such cases, network management applications need to know the specific data/identifier values in each context. This is accomplished through the use of multiple SNMP contexts.

CISCO-CSG-MIB

The CISCO-CSG-MIB supports the Cisco Content Services Gateway (CSG) product. It includes five traps and four tables that enable querying CSG resource statistics.

CISCO-DATA-COLLECTION-MIB

The CISCO-DATA-COLLECTION-MIB retrieves data periodically when the data displays as a set of discontinuous rows spread across multiple tables. This MIB module facilitates data retrieval of tabular objects. This MIB can be used for performance and accounting purposes, where several row instances of a set of objects are polled over a period of time.

The MIB provides the user a way to specify which objects and which instances are required. In addition the MIB provides 2 ways in which this data can be retrieved.

MIB Constraints

Table 3-6 lists the constraints that the Cisco 7600 Series router places on objects in the CISCO-DATA-COLLECTION-MIB. For detailed definitions of MIB objects, see the MIB. Any MIB table or object not listed in this table is implemented as defined in the MIB.



Note

Only traps are supported by the CISCO-DATA-COLLECTION-MIB.

Table 3-6 CISCO-DATA-COLLECTION-MIB Constraints

MIB Object	Notes
cdcVFileTable	Not implemented.
cdcVFileMgmtTable	Not implemented.
cdcDGTable	Not implemented.
cdcDGBaseObjectTable	Not implemented.
cdcDGInstanceTable	Not implemented.
cdcFileXferConfTable	Not implemented.
<ul style="list-style-type: none"> cdcVFilePersistentStorage cdcVFileMaxSizeHitsLimit. 	These objects are not implemented.

CISCO-DIAL-CONTROL-MIB

The CISCO-DIAL-CONTROL-MIB stores past call information. This MIB is an extension of RFC 2128.

CISCO-DLCSW-MIB

The CISCO-DLCSW-MIB contains objects to manage Frame-Relay access support (FRAS) sessions to the end-user station. The MIB applies only to downstream or end-user sessions. It does not apply to upstream or host-end sessions, which are managed through the FRAS-HOST-MIB.

CISCO-DLSW-EXT-MIB

The CISCO-DLSW-EXT-MIB is an extension to the CISCO-DLSW-MIB. It contains objects to manage Cisco specific data-link switching (DLSw) protocol enhancements. DLSW provides a way to transport Systems Network Architecture (SNA) and NetBIOS traffic over an IP network.

CISCO-DLSW-MIB

The CISCO-DLSW-MIB contains objects to manage Data Link Switches.

CISCO-DSPU-MIB

The CISCO-DSPU-MIB contains objects to configure and manage Cisco downstream physical unit (DSPU) objects.

CISCO-EIGRP-MIB

The CISCO-EIGRP-MIB contains objects to manage Enhanced Interior Gateway Protocol (EIGRP). EIGRP is a Cisco proprietary distance vector routing protocol, based on the Diffusing Update Algorithm (DUAL). DUAL defines the method to identify loop-free paths through a network.

CISCO-EMBEDDED-EVENT-MGR-MIB

The CISCO-EMBEDDED-EVENT-MGR-MIB provides descriptions and stores events generated by the Cisco Embedded Event Manager. The Cisco Embedded Event Manager detects hardware and software faults and other events such as OIRs for the system.

CISCO-ENHANCED-IMAGE-MIB

The CISCO-ENHANCED-IMAGE-MIB provides information about events running on the system. The MIB modular operating systems.

CISCO-ENHANCED-MEMORY-POOL-MIB

The CISCO-ENHANCED-MEMORY-POOL-MIB contains objects to monitor memory pools on all of the physical entities on a managed system. Represents the different types of memory pools that may be present in a managed device. Memory use information is provided to users at three different intervals of time: 1 minute, 5 minutes, and 10 minutes. Memory pools can be categorized into two groups, predefined pools and dynamic pools. The following pool types are currently predefined:

- 1:Processor memory
- 2:I/O memory
- 3:PCI memory
- 4:Fast memory
- 5:Multibus memory

Dynamic pools have a pool type value greater than any of the predefined types listed above. Only the processor pool is required to be supported by all devices. Support for other pool types is dependent on the device being managed. For detailed definitions of the CISCO-ENHANCED-MEMORY-POOL-MIB objects, see the MIB.

MIB Constraints

[Table 3-7](#) lists the constraints that the Cisco 7600 Series router places on objects in the CISCO-ENHANCED-MEMORY-POOL-MIB. For detailed definitions of MIB objects, see the MIB.

Table 3-7 CISCO-ENHANCED-MEMORY-POOL-MIB Constraints

MIB Object	Notes
ciscoMemoryPoolTable	
• cempMemPoolType	Values are: <ul style="list-style-type: none"> • processorMemory(2) • ioMemory(3)
• cempMemPoolAlternate	Always 0.
• cempMemPoolPlatformMemory	Always 0.

MIB Usage Values for Cisco FlexWAN and FlexWAN2 Cards

There are two types of memory available on the Enhanced FlexWAN cards, processor and PCI. Only the processorMemory(2) and ioMemory (3) pool types are supported. [Table 3-8](#) lists the memory pool names corresponding to each pool type:

Table 3-8 CISCO-ENHANCED-MEMORY-POOL-MIB Usage Values in the cempMemPoolTable

cempMemPoolType	cempMemPoolName
processorMemory	<ul style="list-style-type: none"> Processor 0 Processor 1
ioMemory	<ul style="list-style-type: none"> I/O is 0 I/O is 1

CISCO-ENTITY-ALARM-MIB

The CISCO-ENTITY-ALARM-MIB enables the Cisco 7600 Series router to monitor alarms generated by system components, such as the chassis, slots, modules, power supplies, fans, and ports.

MIB Constraints

Table 3-9 lists the constraints that the Cisco 7600 Series router WAN modules place on objects in the CISCO-ENTITY-ALARM-MIB. For detailed definitions of MIB objects, see the MIB.

Table 3-9 CISCO-ENTITY-ALARM-MIB Constraints

MIB Object	Notes
ceAlarmTable	
<ul style="list-style-type: none"> ceAlarmFilterProfile ceAlarmFilterProfileIndexNext 	Not implemented.
ceAlarmFilterProfileTable	Not implemented.
ceAlarmDescrTable	
ceAlarmDescrSeverity	Read-only.

ENTITY-MIB Table, entPhysicalTable, identifies the physical system components in the router. The following list describes the table objects that describe the alarms for the CISCO-ENTITY-ALARM-MIB:

- Physical entity—The component in the Cisco 7600 router that generates the alarm.
- ceAlarmDescrVendorType—The object specifies an identifier (typically an enterprise-specific OID) that uniquely identifies the vendor type of those physical entities that this alarm description applies to.
- Alarm severity—Each alarm type defined by a vendor type and employed by the system is assigned an associated severity:
 - Critical—Indicates a severe, service-affecting condition has occurred and that immediate corrective action is imperative, regardless of the time of day or day of the week. For example, online insertion and removal or loss of signal failure when a physical port link is down.
 - Major—Used for hardware or software conditions. Indicates a serious disruption of service or the malfunctioning or failure of important hardware. Requires immediate attention and response of a technician to restore or maintain system stability. The urgency is less than in critical situations because of a lesser effect on service or system performance.

- Minor—Used for troubles that do not have a serious effect on service to customers or for alarms in hardware that are not essential to the operation of the system.
- Info—Notification about a condition that could lead to an impending problem or notification of an event that improves operation.

The syntax values are: critical(1), major(2), minor(3), info(4)

- Alarm description text—Specifies a readable message describing the alarm.
- Alarm type—Identifies the type of alarm that is generated. An arbitrary integer value that uniquely identifies an event relative to a physical entity in the Cisco 7600 router. Values 0 through 255.

Table 3-10 lists the alarm descriptions and severity levels for the Cisco 7600 router FlexWAN PA T3/E3 ports.

Table 3-10 Alarms Supported for Cisco 7600 Router FlexWAN PA T3/E3 Ports

Physical Entity	ceAlarmDescrVendorType	ceAlarmDescr Severity	ceAlarmDescrText
FlexWAN PA T3/3E ports	cevPortT3 cevPortE3 cevPortDsE3Atm	major	Transmitter is sending remote alarm
		major	Transmitter is sending AIS
		major	Receiver has loss of signal
		major	Receiver is receiving AIS
		major	Receiver has loss of frame
		major	Receiver has remote alarm
		major	Receiver has idle signal
		major	Other failure
		major	Physical port link down
		info	Physical port administrative state down

Table 3-11 lists the alarm descriptions and severity levels for the Cisco 7600 router ATM and packet over SONET ports.

Table 3-11 Alarms Supported for Cisco 7600 Router ATM and POS Ports

Physical Entity	ceAlarmDescrVendorType	ceAlarmDescr Severity	ceAlarmDescrText
ATM and POS ports	cevPortATM cevPortPOS cevPortChSonet	critical	Section loss of signal failure
		critical	Section loss of frame failure
		critical	Section out of frame alignment
		minor	J0 trace byte mismatch
		minor	Section bit interleaved parity
		major	Line alarm indication signal

Table 3-11 Alarms Supported for Cisco 7600 Router ATM and POS Ports (continued)

Physical Entity	ceAlarmDescrVendorType	ceAlarmDescr	
		Severity	ceAlarmDescrText
		major	Line remote failure indication
		minor	Line bit interleaved parity
		minor	Line far end block errors
		critical	Path alarm indication signal
		critical	Path remote failure indication
		critical	Path loss of pointer
		minor	Path bit interleaved parity
		minor	Path far end block errors
		minor	Protection switching byte failure
		minor	Path pointer justifications
		minor	Path positive pointer stuff event
		minor	Path negative pointer stuff event
		major	Path payload label mismatch
		major	Path unequipped payload label zero
		minor	Path trace identifier mismatch
		minor	Path trace identifier unstable
		minor	Count of number of times APS bytes changed
		minor	Receiver data out of lock
		critical	Signal failure alarm
		critical	Signal degrade alarm
		minor	Signal failure alarm and B3 errors
		minor	Signal degrade alarm and B3 errors
		critical	Threshold cross alarm-B1
		critical	Threshold cross alarm-B2
		critical	Threshold cross alarm-B3
		critical	Loss of multiframe

Table 3-12 lists the alarm descriptions and severity levels for the Cisco 7600 router serial port adapters.

Table 3-12 Alarms Supported for Cisco 7600 Router Serial Port Adapters

Physical Entity	ceAlarmDescrVendorType	ceAlarmDescr	
		Severity	ceAlarmDescrText
Serial port adapter ports	cevPortHSSI cevPortCBusSerial	minor	Physical port link down
		Info	Physical port administrative state down

Table 3-13 lists the alarm descriptions and severity levels for the Cisco 7600 router FlexWAN PA T1 and E1 ports.

Table 3-13 Alarms Supported for Cisco 7600 Router FlexWAN PA T1/E1 Port Adapter Ports

Physical Entity	ceAlarmDescrVendorType	ceAlarmDescr	
		Severity	ceAlarmDescrText
FlexWAN PA T1 and E1 ports	cevPortT1 cevPortE1	minor	Transmitter is sending remote alarm
		minor	Transmitter is sending AIS
		minor	Transmitter is sending TS16 LOMF alarm
		minor	Receiver has loss of multiframe in TS16
		minor	Receiver has loss of signal
		minor	Receiver is receiving AIS
		minor	Receiver has loss of frame
		minor	Receiver has remote alarm
		minor	Receiver is getting AIS in TS16
		minor	Receiver has remote TS16 LOMF alarm
		minor	Other failure
		minor	Physical port link down
		info	Physical port administrative state down

Table 3-14 lists the alarm descriptions and severity levels for the Cisco 7600 router FlexWAN T1/E1 IMA ports.

Table 3-14 Alarms Supported for Cisco 7600 Router FlexWAN T1/E1 IMA Ports

Physical Entity	ceAlarmDescrVendorType	ceAlarmDescr	
		Severity	ceAlarmDescrText
FlexWAN T1/E1 IMA ports	cevPortT1ImaLink cevPortE1ImaLink	minor	Transmitter is sending remote alarm
		minor	Transmitter is sending AIS
		minor	Receiver has loss of signal
		minor	Receiver is receiving AIS
		minor	Receiver has loss of frame
		minor	Receiver has remote alarm
		minor	Other failure
		minor	Physical port link down
		info	Physical port administrative state down

CISCO-ENTITY-ASSET-MIB

The CISCO-ENTITY-ASSET-MIB provides asset tracking information for the physical components in the ENTITY-MIB (RFC2737) entPhysicalTable.

The ceAssetTable contains an entry (ceAssetEntry) for each physical component on the router. Each entry provides information about the component, such as its orderable part number, serial number, hardware revision, manufacturing assembly number, and manufacturing revision.

Most physical components are programmed with a standard Cisco generic ID PROM value that specifies asset information for the component. If possible, the MIB accesses the component's ID PROM information.

MIB Constraints

Table 3-15 lists the constraints that the Cisco 7600 Series router places on objects in the CISCO-ENTITY-ASSET-MIB.

Table 3-15 CISCO-ENTITY-ASSET-MIB Object Constraints

MIB Object	Notes
ceAssetTable	
ceAssetOrderablePartNumber	Not implemented
ceAssetSerialNumber	Not implemented
ceAssetHardwareRevision	Not implemented
ceAssetFirmwareRevision	Not implemented
ceAssetsSoftwareRevision	Not implemented

MIB Object	Notes
ceAssetAlias	Not implemented
ceAssetTag	Not implemented
ceAssetIsFRU	Not implemented

CISCO-ENTITY-EXT-MIB

The CISCO-ENTITY-EXT-MIB contains extensions for the processor modules listed in the ENTITY-MIB entPhysicalTable. A processor module is any physical entity that has a CPU, RAM, and NVRAM, and can load a boot image and save a configuration. The extensions in this MIB provide information such as RAM and NVRAM sizes, configuration register settings, and bootload image name for each processor module.

CISCO-ENTITY-FRU-CONTROL-MIB

The CISCO-ENTITY-FRU-CONTROL-MIB contains objects to configure and monitor the status of field replaceable units (FRUs) on the Cisco 7600 Series router listed in the ENTITY-MIB entPhysicalTable. An FRU is a hardware component (such as a line card and module, fan, or power supply) that can be replaced on site. This MIB is applicable to SIP and SPA modules for this release.

MIB Constraints

Table 3-16 lists the constraints that the router places on objects in the CISCO-ENTITY-FRU-CONTROL-MIB.

Table 3-16 CISCO-ENTITY-FRU-CONTROL-MIB Constraints

MIB Object	Notes
cefcModuleTable	
• cefcModuleAdminStatus	enabled(1) for read and write. reset(3) for write only.
• cefcModuleOperStatus	unknown(1) ok(2) failed(7)
• cefcModuleResetReason	unknown(1) powerUp(2) manualReset(5)
• cefcModuleLastClearConfigTime	Not implemented.
• cefcModuleResetReasonDescription	Not implemented.
• cefcModuleStateChangeReasonDescr	Not implemented.
• cefcModuleUpTime	Not implemented.
cefcModuleTable	
cefcFRUPowerStatusTable	

CISCO-ENTITY-SENSOR-MIB

The CISCO-ENTITY-SENSOR-MIB contains objects that support the monitoring of sensors. The MIB is applicable to sensors present in various modules and to the sensors present in the DWDM GBICs and XENPAK transceivers. This MIB allows you to monitor sensor values and thresholds on sensors that are discovered by the ENTITY-MIB.

MIB Constraints

Table 3-17 lists CISCO-ENTITY-SENSOR-MIB constraints. For detailed definitions of MIB objects, see the MIB.

Table 3-17 CISCO-ENTITY-SENSOR-MIB Constraints

MIB Object	Notes
entSensorThresholdTable	
• entSensorThresholdRelation	Read-only.
• entSensorThresholdSeverity	Read-only.
• entSensorThresholdValue	Read-only.

MIB Usage Values for Cisco Transceivers

The tables in this section lists each type of sensor's value represented in the entSensorValueTable and the entSensorThresholdTable.

Table 3-18 lists CISCO-ENTITY-SENSOR-MIB sensor objects and their usage values for Cisco 7600 transceivers in the entSensorValueTable.

Table 3-18 CISCO-ENTITY-SENSOR-MIB Usage Values in the entSensorValueTable for Cisco Transceivers

MIB Sensor Object	Notes
Module Temperature Sensor	
• entSensorType	celsius(8)
• entSensorScale	units(9)
• entSensorPrecision	1
• entSensorStatus	ok(1)
• entSensorValue	Reports most recent measurement seen by the sensor.
• entSensorValueTimeStamp	Value indicates the age of the value reported by entSensorValue object.
• entSensorValueUpdateRate	Value indicates the rate that the agent updates entSensorValue (in seconds). For example, 60 seconds.
Module Voltage Sensor	
• entSensorType	volts(DC)4
• entSensorScale	units(9)

Table 3-18 *CISCO-ENTITY-SENSOR-MIB Usage Values in the entSensorValueTable for Cisco Transceivers (continued)*

MIB Sensor Object	Notes
• entSensorPrecision	1
• entSensorStatus	ok(1)
• entSensorValue	Reports most recent measurement seen by the sensor.
• entSensorValueTimeStamp	Value indicates the age of the value reported by entSensorValue object.
• entSensorValueUpdateRate	Value indicates the rate that the agent updates entSensorValue in seconds.
Tx Laser Current Sensor	
• entSensorType	amperes(5)
• entSensorScale	milli(8)
• entSensorPrecision	1
• entSensorStatus	ok(1)
• entSensorValue	Reports most recent measurement seen by the sensor.
• entSensorValueTimeStamp	Value indicates the age of the value reported by entSensorValue object.
• entSensorValueUpdateRate	Value indicates the rate that the agent updates entSensorValue (in seconds). For example, 60 seconds.
Transmit Power Sensor (Optical Tx)	
Receive Power Sensor (Optical Rx)	
• entSensorType	dBm(14)
• entSensorScale	units(9)
• entSensorPrecision	1
• entSensorStatus	ok(1)
• entSensorValue	Reports most recent measurement seen by the sensor.
• entSensorValueTimeStamp	Value indicates the age of the value reported by entSensorValue object.
• entSensorValueUpdateRate	Value indicates the rate that the agent updates entSensorValue (in seconds). For example, 60 seconds.

Each Cisco transceiver sensor has 4 threshold values corresponding to the four alarm states listed in [Table 3-19](#) and [Table 3-20](#). The entSensorValueTable is indexed by both entPhysicalIndex and entSensorThresholdIndex. Cisco 7600 entSensorThresholdIndices range from 1 to 4. For N/A (not applicable), a value of zero is returned.

[Table 3-19](#) lists the default values for the Cisco GBIC transceivers in the entSensorThresholdTable.

Table 3-19 Default Values in the entSensorThreshold Table for DWDM GBIC Transceivers

MIB Sensor Object	High Alarm	High Warning	Low Warning	Low Alarm
Temperature	70.0	60.0	5.0	0.0
Voltage	5.5	5.2	4.7	4.5
Tx Bias Current	60.0	40.0	10.0	5.0
Tx Optical Power	3.4	3.2	-0.3	-0.5
Rx Optical Power	5.9	-6.7	-28.5	-28.5

Table 3-20 lists the default values for the Cisco XENPAK transceivers in the entSensorThresholdTable.

Table 3-20 Default Values in the entSensorThreshold Table for XENPAK Transceivers

MIB Sensor Object	High Alarm	High Warning	Low Warning	Low Alarm
Temperature	70.0	60.0	5.00.0	0.0
Voltage	Not applicable.	Not applicable.	Not applicable.	Not applicable.
Tx Bias Current	80.0	75.0	15.0	10.0
Tx Optical Power	2.0	0.9	-4.0	-9.7
Rx Optical Power	2.0	0.4	-11.9	-15.0

CISCO-ENTITY-VENDORTYPE-OID-MIB

The CISCO-ENTITY-VENDORTYPE-OID-MIB defines the object identifiers (OIDs) assigned to various Cisco 7600 Series router components. The OIDs in this MIB are used by the entPhysicalTable of the ENTITY-MIB as values for the entPhysicalVendorType field in the entPhysicalTable. Each OID uniquely identifies a type of physical entity, such as a chassis, Optical Services Module, FlexWAN card, SPAs, and SIPs.

CISCO-ENVMON-MIB

The CISCO-ENVMON-MIB contains information about the status of environmental sensors (for voltage, temperature, and power supplies). It also contains MIB objects to enable and disable notifications for changes to the status of these sensors.



Note

The CISCO-ENVMON-MIB is *not* supported by the shared port adapters (SPAs).

MIB Constraints

Table 3-21 lists the constraints that the Cisco 7600 Series router places on objects in the CISCO-ENVMON-MIB.

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Table 3-21 CISCO-ENVMON-MIB Constraints

MIB Object	Notes
ciscoEnvMonVoltageStatusTable	
• ciscoEnvMonVoltageStatusDescr	Not implemented.
• ciscoEnvMonVoltageStatusValue	Not implemented.
• ciscoEnvMonVoltageThresholdLow	Not implemented.
• ciscoEnvMonVoltageThresholdHigh	Not implemented.
• ciscoEnvMonVoltageLastShutdown	Not implemented.
• ciscoEnvMonVoltageState	Not implemented.
• ciscoEnvMonEnableVoltageNotification	Not implemented.

CISCO-ENVMON-MIB Usage

The command **show environment** can be used to check environmental status through the CLI. The objects defined in `ciscoEnvMonMIBNotificationEnables` can be set to *true* using CLI command **snmp-server enable traps environment**.

CISCO-ERM-MIB

The CISCO-ERM-MIB is for the Embedded Resource Manager (ERM framework which helps in effectively managing resources such as cpu, memory, buffers, etc).

CISCO-ETHER-CFM-MIB

The CISCO-ETHER-CFM-MIB defines the managed objects and notifications for Ethernet Connectivity Fault Management (CFM). CFM is an end-to-end per service instance Ethernet layer Operations, Administration and Management (OAM) protocol.

CISCO-FLASH-MIB

The CISCO-FLASH-MIB contains objects to manage flash cards and flash-card operations.

CISCO-FLEX-LINKS-MIB

The CISCO-FLEX-LINKS-MIB is for configuration and status query of Flex Links feature on the Cisco device.

Flex Links are a pair of a Layer 2 interfaces, where one interface is configured to act as a backup to the other. The feature provides an alternative solution to the Spanning Tree Protocol (STP), allowing users to turn off STP and still provide basic link redundancy.

Flex Links are typically configured in service provider or enterprise networks where users do not want to run STP on the device.

CISCO-FRAME-RELAY-MIB

The CISCO-FRAME-RELAY-MIB contains Frame Relay information that is specific to Cisco products or that is missing from RFC 1315.

MIB Constraints

Table 3-22 lists the constraints that the Cisco 7600 Series router places on objects in the CISCO-FRAME-RELAY-MIB. Unless noted otherwise, the Cisco 7600 implementation of a MIB follows the standard. Any objects not listed in a table are implemented as defined in the MIB.



Note

Frame relay SVCs are not currently supported in Cisco 7600.

Table 3-22 CISCO-FRAME-RELAY-MIB Constraints

MIB Object	Notes
cfrCircuitTable	
<ul style="list-style-type: none"> cfrCircuitType 	Supported value is pvc(1).
cfrExtCircuitTable	
<ul style="list-style-type: none"> cfrExtCircuitMinThroughputOut cfrExtCircuitMinThroughputIn cfrExtCircuitShapeByteLimit cfrExtCircuitShapeInterval cfrExtCircuitShapeByteIncrement cfrExtCircuitShapeActive cfrExtCircuitShapeAdapting 	Supported for QoS. Otherwise value is 0.
cfrMapTable	
<ul style="list-style-type: none"> cfrMapType 	Values are: <ul style="list-style-type: none"> static(1) dynamic(2)
cfrSvcTable	Not implemented.

CISCO-FRAS-HOST-MIB

The CISCO-FRAS-HOST-MIB contains objects specific to upstream or host-end sessions.

CISCO-FTP-CLIENT-MIB

The CISCO-FTP-CLIENT-MIB contains objects to invoke File Transfer Protocol (FTP) operations for network management. This MIB has no known constraints and all objects are implemented as defined in the MIB.

CISCO-HSRP-EXT-MIB

The CISCO-HSRP-EXT-MIB provides an extension to the CISCO-HSRP-MIB which defines the Cisco Hot Standby Router Protocol (HSRP), which is defined in RFC 2281. The extensions cover assigning of secondary IP addresses and modifying an HSRP group's priority.

CISCO-HSRP-MIB

The CISCO-HSRP-MIB contains objects to configure and manage the Cisco Hot Standby Router Protocol (HSRP), which is defined in RFC 2281.

CISCO-IETF-ATM2-PVCTRAP-MIB-EXTN

The CISCO-IETF-ATM2-PVCTRAP-MIB-EXTN MIB supplements the CISCO-IETF-ATM2-PVCTRAP-MIB.

CISCO-IETF-ATM2-PVCTRAP-MIB

The CISCO-IETF-ATM2-PVCTRAP-MIB supplements the ATM-MIB. It implements the virtual channel link (VCL) section of the IETF document “draft-ietf-atommib-atm2-11.txt,” Section 9 ATM Related Trap Support.

CISCO-IETF-DHCP-SERVER-EXT-MIB

The CISCO-IETF-DHCP-SERVER-EXT-MIB is an extension of the CISCO-IETF-DHCP-SERVER-MIB.

CISCO-IETF-DHCP-SERVER-MIB

The CISCO-IETF-DHCP-SERVER-MIB contains objects for the entities implementing the server side of the Bootstrap Protocol (BOOTP) and the Dynamic Host Configuration protocol (DHCP) for Internet Protocol version 4 (IPv4). This MIB does not include support for updating Dynamic DNS (DDNS) and DHCP Failover Protocol.

CISCO-IETF-FRR-MIB

The CISCO-IETF-FRR-MIB contains managed object definitions for MPLS Fast Reroute (FRR).

CISCO-IETF-IP-MIB

The CISCO-IETF-IP-MIB contains objects to manage the Internet Protocol (IPv6), but not IP routes. The MIB also contains objects to manage the Internet Control Message Protocol (ICMP). It is based on the IETF document draft-ietf-ipngwg-rfc2011-update-00.txt and supports read-only.



Note

This MIB only supports IPv6 interfaces.

Table 3-23 lists constraints that the Cisco 7600 Series router places on objects in the CISCO-IETF-IP-MIB.

Table 3-23 CISCO-IETF-IP-MIB Constraints

MIB Object	Notes
<ul style="list-style-type: none"> cIpv6Forwarding 	Read-only.
<ul style="list-style-type: none"> cIpv6DefaultHopLimit 	Read-only.
clpv6InterfaceTable	
<ul style="list-style-type: none"> cIpv6InterfaceIdentifier 	Read-only.
<ul style="list-style-type: none"> cIpv6InterfaceIdentifierLength 	Read-only.
clpAddressPfxTable	
<ul style="list-style-type: none"> cIpAddressPfxOrigin 	Read-only. Values: <ul style="list-style-type: none"> other(1) manual(2)
clpAddressTable	
<ul style="list-style-type: none"> cIpAddressOrigin 	Read-only. Values: <ul style="list-style-type: none"> other(1) manual(2) wellknown(3)
<ul style="list-style-type: none"> cIpAddressStatus 	Read-only. Value is deprecated(2). No longer supported
clnetNetToMediaTable	
<ul style="list-style-type: none"> cInetNetToMediaPhysAddress 	Read-only.

Table 3-23 CISCO-IETF-IP-MIB Constraints (continued)

MIB Object	Notes
<ul style="list-style-type: none"> cInetNetToMediaType 	Read-only. Values: <ul style="list-style-type: none"> other(1) dynamic(3) static(4)
<ul style="list-style-type: none"> cInetNetToMediaState 	Read-only. Value is invalid(5). Not supported.
cInetIcmpTable	
<ul style="list-style-type: none"> cInetIcmpOutErrors 	Not Implemented.

CISCO-IETF-ISIS-MIB

The CISCO-IETF-ISIS-MIB contains objects to manage IS-IS Routing protocol described in ISO 10589. IS-IS Routing protocol is used to construct routing tables for IP networks, as described in RFC 1195.

CISCO-IETF-IP-FORWARD-MIB

The CISCO-IETF-IP-FORWARD-MIB contains objects to manage multipath IP (IPv6) routes in a classless interdomain routing (CIDR) environment. This MIB is based on the IETF document draft-ietf-ipngwg-rfc2096-update-00.txt and supports read-only.

CISCO-IETF-PPVPN-MPLS-VPN-MIB

The CISCO-IETF-PPVPN-MPLS-VPN-MIB is an extension of the MPLS-VPN-MIB. It contains a new notification, mplsNumVrfRouteMaxThreshCleared, which was added with MPLS-VPN-MIB-DRAFT-05.

CISCO-IETF-PW-ATM-MIB

The CISCO-IETF-PW-ATM-MIB contains managed object definitions for Pseudo Wire emulation of ATM over Packet Switched Networks (PSN).

CISCO-IETF-PW-ENET-MIB

The CISCO-IETF-PW-ENET-MIB describes a model for managing Ethernet point-to-point pseudo wire services over a Packet Switched Network (PSN).

CISCO-IETF-PW-FR-MIB

The CISCO-IETF-PW-FR-MIB describes network management objects defined for FRoPW services over a Packet Switched Network (PSN).

CISCO-IETF-PW-MIB

The CISCO-IETF-PW-MIB contains managed object definitions for Pseudo Wire operation.

CISCO-IETF-PW-MPLS-MIB

The CISCO-IETF-PW-MPLS-MIB complements the CISCO-IETF-PW-MIB for PW operation over MPLS.

CISCO-IETF-PW-TC-MIB

The CISCO-IETF-PW-TC-MIB provides Textual Conventions and OBJECT-IDENTITY Objects to be used PW services.

CISCO-IETF-PW-TDM-MIB

The CISCO-IETF-PW-TDM-MIB contains managed object definitions for encapsulating TDM (T1,E1, T3, E3, NxDS0) as pseudo-wires over packet-switching networks (PSN)

CISCO-IF-EXTENSION-MIB

The CISCO-IF-EXTENSION-MIB contains objects that provide additional interface-related information that is not available in the IF-MIB (RFC 2863).

[Table 3-24](#) lists constraints for Cisco 7600 WAN interfaces.

Table 3-24 CISCO-IF-EXTENSION-MIB Constraints

MIB Object	Notes
cieInterfaceTable	
• cieIfDhcpMode	Not implemented.
• cieIfMtu	Not implemented.
• cieIfContextName	Not implemented.
• cieIfKeepAliveEnabled	Not supported for ATM interfaces.
cieSystemMtu	Not implemented.
cieIfUtilTable	Not implemented.
cieIfDot1dBaseMappingTable	Not implemented.

Table 3-24 CISCO-IF-EXTENSION-MIB Constraints (continued)

MIB Object	Notes
cieIfDot1qCustomerEtherTypeTable	Not implemented.
cieIfNameMappingTable	Not implemented.

1 Some objects defined in `cieIfPacketStatsTable` and `cieIfInterfaceTable` are applicable to physical interfaces only. As a result, this table may be sparse for non-physical interfaces.

2 ATM interfaces do not support the `cieIfKeepAliveEnabled` object.

CISCO-IMAGE-MIB

The CISCO-IMAGE-MIB contains objects which identify the capabilities and characteristics of the Cisco IOS image.

CISCO-IMAGE-TC-MIB

The CISCO-IMAGE-TC-MIB defines the textual conventions used in the enhanced image MIB."

CISCO-IP-STAT-MIB

The CISCO-IP-STAT-MIB contains objects to manage the collection and display of IP statistics, categorized by IP precedence and the Media Access Control (MAC) address associated with IP packets. To use the MIB to access additional IP statistics, you can issue the **ip accounting mac-address** and **ip accounting precedence** commands at the CLI.CISCO-IPMROUTE-MIB

The CISCO-IPMROUTE-MIB contains objects to manage IP multicast routing on the router.

CISCO-IPSEC-FLOW-MONITOR-MIB

The CISCO-IPSEC-FLOW-MONITOR-MIB allows monitoring of the structures in IPSec-based Virtual Private Networks.

CISCO-IP-TAP-MIB

The CISCO-IP-TAP-MIB manages Cisco's intercept feature for IP. This MIB is used along with CISCO-TAP2-MIB to intercept IP traffic.

CISCO-IP-URPF-MIB

The CISCO-IP-URPF-MIB contains objects to manage Unicast Reverse Path Forwarding (URPF). URPF validates the source address of IP packets received on an interface to prevent Denial of Service attacks based on IP address spoofing.

CISCO-IPSEC-MIB

The CISCO-IPSEC-MIB models the Cisco implementation-specific attributes of a Cisco entity that implements IPsec.

CISCO-IPSLA-ETHERNET-MIB

The CISCO-IPSLA-ETHERNET-MIB contains objects to manage IP SLA Auto-Ethernet-CFM operations and EthernetJitter statistics. IP SLA is a capability which utilizes active monitoring for network performance. It can be used for network troubleshooting, network assessment, and health monitoring. EthernetJitter is used to measure metrics such as RTT, Jitter, frame loss, and one-way latency by sending multiple enhanced CFM frames at specified interval to a particular MEP.

CISCO-L2-CONTROL-MIB

The CISCO-L2-CONTROL-MIB contains objects that provide a n control feature for devices with Layer 2 functions such as the VLAN MAC limit control. The MIB controls the number of MAC address entries for each VLAN so that the forwarding table is not depleted.

CISCO-L2-TUNNEL-CONFIG-MIB

The CISCO-L2-TUNNEL-CONFIG-MIB contains objects to configure and manage Layer 2 tunnels on the router. Tunneling allows separate local networks to appear as a single virtual LAN (VLAN). The networks are connected through an ISP, which tunnels the packets from one network to another, making it appear as if both networks are a single network.

CISCO-L2L3-INTERFACE-CONFIG-MIB

The CISCO-L2L3-INTERFACE-CONFIG-MIB contains objects to configure the operation mode of router interfaces and to monitor their status. You can configure a router interface to operate in routed(1) or switchport(2) mode:

- Routed(1) mode—Layer 3 protocols are used to direct traffic across the interface.
- Switchport(2) mode—Layer 2 protocols are used to direct traffic across the interface. This mode can be configured manually, or negotiated by the dynamic trunking protocol (DTP) or the dynamic interswitch link (DISL) protocol. The interface can be configured to operate in access mode, trunk mode, or multimode.

CISCO-LAG-MIB

The CISCO-LAG-MIB contains objects to manage link aggregation (LAG) on the router, as defined by IEEE Standard 802.3ad. The MIB contains link aggregation information that is not included in the IEEE8023-LAG-MIB or that is specific to Cisco products.

CISCO-MAC-NOTIFICATION-MIB

The CISCO-MAC-NOTIFICATION-MIB is for configuration of the MAC notification feature. MAC notification is a mechanism to inform monitoring devices when there are MAC addresses learnt or removed from the forwarding database of the monitored devices.

CISCO-MEMORY-POOL-MIB

The CISCO-MEMORY-POOL-MIB contains objects that represents the different types of memory pools that may be present in a managed device. Memory pools are categorized into two groups:

- Predefined pools
- Dynamic pools

CISCO-MVPN-MIB

The CISCO-MVPN-MIB contains managed object definitions for Cisco implementation of multicast in VPNs defined by the Internet draft: draft-rosen-vpn-mcast-05.txt.

CISCO-NAC-NAD-MIB

The CISCO-NAC-NAD-MIB is for the configuration of a Network Access Device (NAD) on the Cisco Network Admission Control (NAC) system.

CISCO-NDE-MIB

The CISCO-NDE-MIB contains objects to configure and monitor the operation of the NetFlow Data Export (NDE) feature. A network flow is a unidirectional sequence of packets between a pair of source and destination endpoints, which are identified by IP address and transport layer application port number. NetFlow uses the IP protocol type, type of service (ToS), and input interface identifier to uniquely identify network flows.

CISCO-NETFLOW-MIB

The CISCO-NETFLOW-MIB provides a simple and easy method to get NetFlow cache information, current NetFlow configuration and statistics.

CISCO-NTP-MIB

The CISCO-NTP-MIB contains objects to monitor a Network Time Protocol (NTP) server. NTP is used to synchronize timekeeping among a set of distributed time servers and clients. Primary time servers, which are synchronized to national time standards, are connected to widely accessible resources such as backbone gateways. These primary servers send timekeeping information to other time servers, and perform clock checking to eliminate timekeeping errors due to equipment or propagation failures.

CISCO-OSPF-MIB

The CISCO-OSPF-MIB contains objects for managing OSPF implementation. Most of the MIB definitions are based on the IETF draft < draft-ietf-ospf-mib-update-05.txt > and includes support for OSPF Sham link. The CISCO-OSPF-MIB is an extension to the OSPF-MIB defined in RFC 1850.

CISCO-OSPF-TRAP-MIB

The CISCO-OSPF-TRAP-MIB contains new and modified notification objects and events, which are defined in the latest version for OSPF MIB IETF draft draftietf-ospf-mib-update-05.txt in addition to support for OSPF Sham link.

CISCO-PAE-MIB

The CISCO-PAE-MIB contains objects to manage port access entities (PAEs) on the router, as defined by IEEE Std 802.1x. The MIB contains PAE information that is not included in the IEEE8021-PAE-MIB or that is specific to Cisco products.

CISCO-PAGP-MIB

The CISCO-PAGP-MIB contains objects to configure and manage Fast Etherchannel and the Port Aggregation Protocol (PAgP) on the router. These features allow two or more physical interfaces to be aggregated together to form a single *agport* that behaves like a single interface, but that has improved bandwidth and availability over each of the physical interfaces.

**Note**

You can also monitor interfaces, agports, and related statistics through the ifStackTable and the ifTable (IF-MIB).

CISCO-PIM-MIB

The CISCO-PIM-MIB defines Cisco specific objects and variables for managing Protocol Independent Multicast (PIM) on the router. These MIB definitions are an extension of those in RFC 2934, which is the IETF PIM MIB.

CISCO-PING-MIB

The CISCO-PING-MIB contains objects to manage ping requests on the router.

CISCO-POLICY-GROUP-MIB

The CISCO-POLICY-GROUP-MIB is used for configuration of policy and policy group. A policy group can be described as a set of entities identified by IP addresses or other means. Members of a policy group will be subjected to the same policy.

CISCO-PORT-SECURITY-MIB

The CISCO-PORT-SECURITY-MIB is used for managing Cisco Port Security

CISCO-PPPOE-MIB

The CISCO-PRIVATE-VLAN-MIB contains objects to manage Cisco PPPoE sessions.

CISCO-PRIVATE-VLAN-MIB

The CISCO-PRIVATE-VLAN-MIB contains objects to manage the private virtual LAN (VLAN) feature on the router.

CISCO-PROCESS-MIB

The CISCO-PROCESS-MIB displays memory and CPU usage on the router and describes active system processes. CPU utilization presents a status of how busy the system is. The numbers are a ratio of the current idle time over the longest idle time (this information should be used as an estimate only).

MIB Constraints

[Table 3-25](#) lists the constraints that the Cisco 7600 Series router places on objects in the CISCO-PROCESS-MIB.

Table 3-25 CISCO-PROCESS-MIB Constraints

MIB Object	Notes
<code>cpmProcessTable</code>	
<ul style="list-style-type: none"> <code>cpmProcExtPriority</code> 	Read-only.

CISCO-PROCESS-MIB Usage

The CISCO-PROCESS-MIB supports the 7600 WAN Cards (FlexWANs, OSM, SIPs) cards. These cards have one or two CPUs. The CISCO-PROCESS-MIB contains information for each CPU present.

The `cpmCPUTotal5sec`, `cpmCPUTotal1min`, and `cpmCPUTotal5min` objects have been deprecated and replaced by `cpmCPUTotal5secRev`, `cpmCPUTotal1minRev`, and `cpmCPUTotal5minRev` respectively.



Note

When an object is deprecated it does not mean that an object instance may not be returned. For these deprecated objects, object instances are returned. However, their returned values must be ignored. The values returned by the new objects must be used.

CISCO-PRODUCTS-MIB

The CISCO-PRODUCTS-MIB lists the object identifiers (OIDs) assigned to Cisco hardware platforms. The following OIDs are supported:

- `cisco7603` (1.3.6.1.4.1.9.1.401)
- `cisco7606` (1.3.6.1.4.1.9.1.402)
- `cisco7609` (1.3.6.1.4.1.9.1.509)
- `cisco7613` (1.3.6.1.4.1.9.1.528)
- `cisco7604` (1.3.6.1.4.1.9.1.658)
- `cisco7609s` (1.3.6.1.4.1.9.1.835)
- `cisco7603s` (1.3.6.1.4.1.9.1.862)
- `cisco7606s` (1.3.6.1.4.1.9.1.863)

This MIB is included in the Cisco 7600 executable image, but its support is unverified.

CISCO-QINQ-VLAN-MIB

The CISCO-QINQ-VLAN-MIB describes configuration and monitoring capabilities relating to 802.1QinQ interfaces.

MIB Constraints

[Table 3-26](#) lists the constraints that the Cisco 7600 Series router places on objects in the CISCO-QINQ-VLAN-MIB.

Table 3-26 CISCO-QINQ-VLAN-MIB Constraints

MIB Object	Notes
<code>cqvTerminationTable</code>	Not implemented. Cisco7600 does not support QinQ Termination feature.
<code>cqvTranslationTable</code>	

Table 3-26 CISCO-QINQ-VLAN-MIB Constraints (continued)

MIB Object	Notes
• cqvTranslationTrunkPeVlanId	Read-only.
• cqvTranslationTrunkCeVlanId	Read-only.
• cqvTranslationType	Read-only.
• cqvTranslationCosPBits	Read-only.
• cqvTranslationRowStatus	Read-only.

CISCO-QLLC01-MIB

The CISCO-QLLC01-MIB contains objects to configure and monitor logical connections for the Qualified Logical Link Control (QLLC) protocol.

CISCO-QUEUE-MIB

The CISCO-QUEUE-MIB contains objects to manage interface queues, which can be used for FIFO, priority, custom, and fair queuing.

CISCO-RESILIENT-ETHERNET-PROTOCOL-MIB

The CISCO-RESILIENT-ETHERNET-PROTOCOL-MIB defines objects required for managing Resilient Ethernet Protocol (REP). Resilient Ethernet Protocol (REP) is a Cisco proprietary protocol that provides an alternative to Spanning Tree Protocol (STP). REP provides functionality to control network loops, handle link failures, and improve convergence time.

CISCO-RF-MIB

The CISCO-RF-MIB provides configuration control and status for the Redundancy Framework (RF) subsystem. RF provides a mechanism for logical redundancy of software functionality and is designed to support 1:1 redundancy on processor cards (supervisor engines). Redundancy duplicates data elements and software functions to provide an alternative in case of failure.



Note

For information about the levels of redundancy and how to verify that the redundancy feature is available on Cisco 7600 routers, see [Appendix A, “Cisco Redundancy Features.”](#)

MIB Constraints

[Table 3-27](#) lists the constraints that the Cisco 7600 Series router places on objects in the CISCO-RF-MIB.

Table 3-27 CISCO-RF-MIB Constraints

MIB Object	Notes
cRFCfgGroup	
• cRFCfgSplitMode	Object is deprecated.
• cRFCfgRedundancyMode	Values: 6, 7, and 8.
• cRFCfgMaintenanceMode	Read-only. Supported value is false(2).
cRFHHistoryGroup	
• cRFHHistory	There are three switchover modes: coldstandby, warmstandby, and hoststandby. The only entries saved are those generated from a hotstandby switchover.

CISCO-RMON-CONFIG-MIB

The CISCO-RMON-CONFIG-MIB contains Cisco RMON configuration span extensions for the standard IETF remote monitoring (RMON) MIBs.

CISCO-RSRB-MIB

The CISCO-RSRB-MIB contains objects used to manage remote source-route bridging (RSRB) on the router. This MIB provides information about the attributes of the local-remote RSRB peer relationship.

CISCO-RTTMON-MIB

The CISCO-RTTMON-MIB contains objects to monitor network performance. The MIB provides information about the response times of network resources and applications. Each conceptual round-trip time (RTT) control row in the MIB represents a single probe, which is used to determine an entity's response time. The probe defines an RTT operation to perform (for example, an FTP or HTTP get request), and the results indicate whether the operation succeeded or failed, and how long it took to complete.

If you plan to schedule an RTT operation, see [Table 3-28](#) for information about rttMonScheduleAdminRttStartTime in the rttMonScheduleAdminTable.



Note

An rttMonCtrlOperConnectionLostOccurred trap is generated when an RTT connection cannot be established to the destination router because the router responder application is not running. However, the trap is not generated if the physical connection to the router is lost.

MIB Constraints

[Table 3-28](#) lists the constraints that the Cisco 7600 Series router places on objects in the CISCO-RTTMON-MIB. For detailed definitions of MIB objects, see the MIB.

Table 3-28 CISCO-RTTMON-MIB Constraints

MIB Object	Notes
RttMonProtocol	Not supported: snaRUEcho snaLU0EchoAppl
rttMonApplAuthTable	Not supported.
rttMonCtrlAdminTable	
<ul style="list-style-type: none"> rttMonCtrlAdminRttType 	Supported values: echo(1) pathEcho(2) udpEcho(5) tcpConnect(6) http(7) dns(8) jitter(9) ftp(12) All other values not supported.
rttMonEchoAdminTable	
<ul style="list-style-type: none"> rttMonEchoAdminProtocol 	Supported values: ipIcmpEcho(2) ipUdpEchoAppl(3) ipTcpConn(24) httpAppl(25) dnsAppl(26) jitterAppl(27) ftpAppl(30) All other values not supported.
rttMonScheduleAdminTable	
<ul style="list-style-type: none"> rttMonScheduleAdminRttStartTime 	Before setting this object to a date/time value, make sure the ESR clock was set through the CLI clock set command. Otherwise, the scheduled RTT operation does not run.
rttMonHistoryCollectionTable	HTTP and Jitter types not supported.

CISCO-RTTMON-IP-EXT-MIB

The CISCO-RTTMON-IP-EXT-MIB contains extensions to tables in CISCO-RTTMON-MIB to support IP-layer extensions including IPv6 addresses, information related to IPv6, and additional IP information.

CISCO-SDLLC-MIB

The CISCO-SDLLC-MIB contains object to manage SDLC Logical Link Control (SDLLC). The MIB contains read-only configuration and operational information for Cisco implementation of Synchronous Data Link Control (SDLC) to Logical Link Control, type 2 (LLC2) media translation.

CISCO-SLB-EXT-MIB

The CISCO-SLB-EXT-MIB contains extensions to the Cisco server load-balancing MIB (CISCO-SLB-MIB). Server load balancing enables the router to balance the processing of packets and connections from a number of other devices, such as real servers, firewalls, or caches. An SLB device determines how to handle incoming frames and connections according to the contents of the incoming data and various configuration options.

CISCO-SLB-MIB

The CISCO-SLB-MIB contains objects to manage server load-balancing (SLB) managers, such as those provided by the Cisco IOS SLB product. The MIB includes objects for the manager-side implementation of the Dynamic Feedback Protocol (DFP), which is used to obtain information about servers.

CISCO-SMI-MIB

The CISCO-SMI-MIB defines the structure of management information for Cisco enterprise MIBs.

CISCO-SNADLC-CONV01-MIB

The CISCO-SNADLC-CONV01-MIB contains objects that manage QLLC-to-SDLC and QLLC-to-LLC2 conversion.

CISCO-SNAPSHOT-MIB

The CISCO-SNAPSHOT-MIB contains objects to manage snapshot routing, which helps improve the use of system resources for static routing and routing for dedicated serial lines.

CISCO-SNMP-TARGET-EXT-MIB

The CISCO-SNMP-TARGET-EXT-MIB is an extension of the SNMP-TARGET-MIB specified in RFC2273

CISCO-SONET-MIB

The CISCO-SONET-MIB contains objects to describe SONET/SDH interfaces on the router. This MIB is an extension to the standard SONET-MIB (RFC 2558). The CISCO-SONET-MIB has objects that provide additional SONET related information not found in the SONET-MIB. For detailed definitions of MIB objects, see the MIB.

MIB Constraints

The following CISCO-SONET-MIB tables are not implemented in the Cisco 7600 platform:

- csConfigTable
- csVTConfigTable
- csAPSCfgTable
- cssTranceTable
- cspTranceTable
- csStatsTable
- cspConfigTable



Note

Only the section, line, and path totals objects from the ciscoSonetStatsMIBGroup and the complete ciscoSonetEnableGroup must be supported. All network elements containing one or more SONET interfaces must implement this MIB.

CISCO-SRP-MIB

The CISCO-SRP-MIB contains objects that describe the spatial reuse protocol (SRP) interface layer.

CISCO-STACK-MIB

The CISCO-STACK-MIB provides configuration information and runtime status for router components. On the Cisco 7600 Series router, the CISCO-STACK-MIB contains information about the chassis, ports, and modules.



Note

Before the ENTITY-MIB standardization, the OLD-CHASSIS-MIB and CISCO-STACK-MIB were used to support physical entities. The CISCO-STACK-MIB is supported on the Cisco 7600 Series router for LAN cards, OSM cards, and FlexWAN/SPAs. PAs, SIPs and SPAs and are not supported.

[Table 3-29](#) lists the values that the Cisco 7600 Series router uses for module types.

Table 3-29 CISCO-STACK-MIB Module Type Values for the Cisco 7600 Series Router

MIB Object	Notes																																										
moduleTable																																											
• moduleType	<table border="1"> <thead> <tr> <th>Module Type</th> <th>Part Number</th> </tr> </thead> <tbody> <tr> <td colspan="2">Enhanced OC-48/STM-16 POS/SDH OSM WAN ports</td> </tr> <tr> <td>osm1oc48PosSSPlus(611)</td> <td>OSM-1OC-48-POS-SS+</td> </tr> <tr> <td>osm1oc48PosSIPlus(612)</td> <td>OSM-1OC-48-POS-SI+</td> </tr> <tr> <td>osm1oc48PosSLPlus(613)</td> <td>OSM-1OC-48-POS-SL+</td> </tr> <tr> <td colspan="2">Enhanced OC-12/STM-4 POS/SDH OSM WAN ports</td> </tr> <tr> <td>osm2oc12PosMMPlus(608)</td> <td>OSM-2OC-12-POS-MM+</td> </tr> <tr> <td>osm4oc12PosSIPlus(617)</td> <td>OSM-4OC-12-POS-SI+</td> </tr> <tr> <td colspan="2">Enhanced OC-12/ATM OSM WAN ports</td> </tr> <tr> <td>osm2oc12AtmMMPlus(606)</td> <td>OSM-2OC-12-ATM-MM+</td> </tr> <tr> <td>osm2oc12AtmSIPlus(607)</td> <td>OSM-2OC-12-ATM-SI+</td> </tr> <tr> <td colspan="2">Enhanced OC-3/STM-1 POS/SDH OSM WAN ports</td> </tr> <tr> <td>osm16oc3PosSIPlus(610)</td> <td>OSM-16OC-3-POS-SI+</td> </tr> <tr> <td>osm4oc3PosSIPlus(614)</td> <td>OSM-4OC-3-POS-SI+</td> </tr> <tr> <td>osm8oc3PosSLPlus(615)</td> <td>OSM-8OC-3-POS-SL+</td> </tr> <tr> <td>osm8oc3PosSIPlus(616)</td> <td>OSM-8OC-3-POS-SI+</td> </tr> <tr> <td colspan="2">Channelized DS3, GigE, and FlexWAN Modules</td> </tr> <tr> <td>wsx6182pa(212)</td> <td>WS-X6182-2PA</td> </tr> <tr> <td>osm12ct3DS0(600)</td> <td>OSM-12CT3/T1</td> </tr> <tr> <td>osm24ct3DS0(287)</td> <td>OSM-24CT3/T1</td> </tr> <tr> <td>osm4GeWanGbicPlus(603)</td> <td>OSM-2+4GE-WAN+</td> </tr> </tbody> </table>	Module Type	Part Number	Enhanced OC-48/STM-16 POS/SDH OSM WAN ports		osm1oc48PosSSPlus(611)	OSM-1OC-48-POS-SS+	osm1oc48PosSIPlus(612)	OSM-1OC-48-POS-SI+	osm1oc48PosSLPlus(613)	OSM-1OC-48-POS-SL+	Enhanced OC-12/STM-4 POS/SDH OSM WAN ports		osm2oc12PosMMPlus(608)	OSM-2OC-12-POS-MM+	osm4oc12PosSIPlus(617)	OSM-4OC-12-POS-SI+	Enhanced OC-12/ATM OSM WAN ports		osm2oc12AtmMMPlus(606)	OSM-2OC-12-ATM-MM+	osm2oc12AtmSIPlus(607)	OSM-2OC-12-ATM-SI+	Enhanced OC-3/STM-1 POS/SDH OSM WAN ports		osm16oc3PosSIPlus(610)	OSM-16OC-3-POS-SI+	osm4oc3PosSIPlus(614)	OSM-4OC-3-POS-SI+	osm8oc3PosSLPlus(615)	OSM-8OC-3-POS-SL+	osm8oc3PosSIPlus(616)	OSM-8OC-3-POS-SI+	Channelized DS3, GigE, and FlexWAN Modules		wsx6182pa(212)	WS-X6182-2PA	osm12ct3DS0(600)	OSM-12CT3/T1	osm24ct3DS0(287)	OSM-24CT3/T1	osm4GeWanGbicPlus(603)	OSM-2+4GE-WAN+
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CISCO-STP-EXTENSIONS-MIB

The CISCO-STP-EXTENSIONS-MIB contains objects to manage Cisco extensions to the Spanning-Tree Protocol (STP), which is defined by IEEE Std 802.1D.

CISCO-STUN-MIB

The CISCO-STUN-MIB contains objects to configure and monitor serial tunneling (STUN) on the router. The MIB contains global STUN configuration and operational information, and objects to manage STUN groups, ports, and routes.

CISCO-SVI-AUTOSTATE-MIB

The CISCO-SVI-AUTOSTATE-MIB is used for configuration of the switch virtual interface (SVI) autostate feature. Autostate feature is a mechanism to calculate the state of a SVI dynamically when some condition occurs such as a failure of a participating interface in that SVI.

CISCO-SWITCH-ENGINE-MIB

The CISCO-SWITCH-ENGINE-MIB contains objects to manage Cisco Layer 2 and 3 switches, such as the Cisco 7600 Series router. Layer 2 and 3 switches can have a single (central) switching engine or multiple (distributed) switching engines that are interconnected through a common switching fabric.

- In a central-switching engine model, all physical ports in the system are handled by the single switching engine.
- In a distributed-switching model, each switching engine handles a set of local physical ports and when necessary, uses the switching fabric to switch packets to other switching engines.

CISCO-SWITCH-QOS-MIB

The CISCO-SWITCH-QOS-MIB extends the [CISCO-CLASS-BASED-QOS-MIB](#) by defining configuration and statistics information specific to the quality of service (QoS) features of Layer2/3 switch functionality implemented in Cisco devices. This MIB is applicable to a device which is fully within a single QoS domain; one or more boundaries with other QoS domains can be immediately adjacent to this device.

CISCO-SYSLOG-MIB

The CISCO-SYSLOG-MIB contains all system log messages generated by the Cisco IOS software. The MIB provides a way to access these syslog messages through SNMP. All Cisco IOS syslog messages contain the message name and its severity, message text, the name of the entity generating the message, and an optional time stamp. The MIB also contains a history of syslog messages and counts related to syslog messages.


Note

You can configure the Cisco 7600 Series router to send syslog messages to a 'syslog' server.


Note

The MIB does not keep track of messages generated from debug commands entered through the command line interface (CLI).

CISCO-TAP2-MIB

The CISCO-TAP2-MIB manages Cisco's intercept feature. This MIB replaces CISCO-TAP-MIB. This MIB defines a generic stream table that contains fields common to all intercept types. Specific intercept filters are defined in extension MIBs. The MIBs are CISCO-IP-TAP-MIB for IP intercepts, CISCO-802-TAP-MIB for IEEE 802 intercepts and CISCO-USER-CONNECTION-TAP-MIB for RADIUS-based user connection intercepts.

CISCO-TC

The CISCO-TC contains objects that define textual conventions used throughout Cisco enterprise MIBs.

CISCO-TCP-MIB

The CISCO-TCP-MIB contains objects to manage the Transmission Control Protocol (TCP) on the router. This MIB is an extension to the IETF TCP MIB.

CISCO-UDLDP-MIB

The CISCO-UDLDP-MIB contains objects to configure and manage the Cisco Uni Direction Link Detection Protocol (UDLDP) on the router.

CISCO-VINES-MIB

The CISCO-VINES-MIB provides Virtual Integrated Network Service (VINES) routing information. The MIB also contains objects from the Cisco VINES command line interface.

CISCO-VLAN-IFTABLE-RELATIONSHIP-MIB

The CISCO-VLAN-IFTABLE-RELATIONSHIP-MIB contains VLAN-ID and ifIndex information for each routed virtual LAN (VLAN) interface on the router. A routed VLAN interface is the router interface or subinterface to which you attach the IP address used by the router on the VLAN. The MIB maps each VLAN-ID to an ifIndex, which you can use to access the ipRouteTable to obtain the routing configuration for the routed VLAN interface.

CISCO-VLAN-MEMBERSHIP-MIB

The CISCO-VLAN-MEMBERSHIP-MIB module provides management functions for the VLAN Membership within the frame work of Cisco VLAN Architecture, Version 2.0. The MIB provides information on VLAN Membership Policy Servers used by a device and VLAN membership assignments of non-trunk bridge ports of the device.

CISCO-VLAN-TRANSLATION-MIB

The CISCO-VLAN-TRANSLATION-MIB provides management of VLAN translations. VLAN translation refers to the ability of the device to translate between different virtual LANs or between VLAN and non-VLAN encapsulating interfaces at Layer 2. Translation is typically used for selective inter-VLAN switching of non-routable protocols and to extend a single VLAN topology across hybrid switching environments

CISCO-VOICE-ANALOG-IF-MIB

The CISCO-VOICE-ANALOG-IF-MIB manages the E&M, FXO, FXS interfaces in the router. The analog voice interface MIB provides the standard configuration, timing parameters, telephony hook, and ring status information on Cisco Analog Voice interface implementation. The following groups are managed:

Analog interface general group

- E&M (recEive and transMit) interface group
- FXO (Foreign Exchange Office) interface group
- FXS (Foreign Exchange Station) interface group

CISCO-VOICE-COMMON-DIAL-CONTROL-MIB

The CISCO-VOICE-COMMON-DIAL-CONTROL-MIB module contains voice related objects that are common across more than one network encapsulation such as VoIP, VoATM, and VoFR.

CISCO-VOICE-DIAL-CONTROL-MIB

The CISCO-VOICE-DIAL-CONTROL-MIB module enhances the IETF Dial Control MIB (RFC 2128) by providing management of voice telephony peers on both a circuit-switched telephony network, and an IP data network.

CISCO-VOICE-IF-MIB

The CISCO-VOICE-IF-MIB module manages the common voice related parameters for both voice analog and ISDN interfaces.

CISCO-VPDN-MGMT-EXT-MIB

The CISCO-VPDN-MGMT-EXT-MIB is a supplement to CISCO-VPDN-MGMT-MIB.

CISCO-VPDN-MGMT-MIB

The CISCO-VPDN-MGMT-MIB contains objects to manage the Virtual Private Dialup Network (VPDN) feature of Cisco IOS. VPDN handles the forwarding of PPP links from an Internet Provider (ISP) to a Home Gateway.

CISCO-VTP-MIB

The CISCO-VTP-MIB contains objects to configure and manage the VLAN Trunking Protocol (VTP) and virtual LANs (VLANs) on the router.

DIAL-CONTROL-MIB

The DIAL-CONTROL-MIB contains objects that describe peer information for demand access and possibly other kinds of interfaces. Managing access circuits requires the following groups of information:

- General configuration information.
- Information to describe peer configuration and peer statistics. In this respect, peer configuration means information on how to connect to peers on outgoing calls, how to identify peers on incoming calls, and other call related configuration information.
- Information to store active call information.
- Information to retain call history.

DIFFSERV-DSCP-TC

DIFFSERV-DSCP-TC contains the definitions of the textual conventions that should be used whenever a Differentiated Services Code Point is used in a MIB.

DIFFSERV-MIB

The DIFFSERV-MIB defines the objects necessary to manage a device that uses the Differentiated Services Architecture described in RFC 2475.

DS1-MIB (RFC 1406, 2495, 2495)

The DS1-MIB module contains a description of DS1, E1, DS2, and E2 interfaces objects.



Note

NOTE - Release 12.2(18)SXF and earlier support RFC1406. Release 12.2(33)SRA and later support RFC 2495DS3-MIB

MIB Constraints

[Table 3-30](#) describes constraints on objects from DS1-MIB definition. For detailed definitions of MIB objects, see the MIB.

Table 3-30 DS1-MIB Constraints

MIB Object	Notes
dsx1ConfigTable	
• dsx1LineStatusChangeTrapEnable	Read-only.
• dsx1Channelization	Read-only.
• dsx1LineLength	Read-only.

Table 3-30 DS1-MIB Constraints (continued)

MIB Object	Notes
• dsx1LineType	Read-only.
• dsx1LineCoding	Read-only.
• dsx1SendCode	Read-only.
• dsx1CircuitIdentifier	Read-only.
• dsx1LoopbackConfig	Read-only.
• dsx1SignalMode	<ul style="list-style-type: none"> • Read-only. • SPA-8XCHT1/E1 usage is always none(1).
• dsx1TransmitClockSource	Read-only.
• dsx1Fdl	Read-only.
• dsx1LoopbackStatus	SPA-8XCHT1/E1 usage: Pay load loopbacks are not supported (dsx1NearEndPayloadLoopback, dsx1FarEndPayloadLoopback)
dsx1FracTable	Not implemented.

DS3-MIB (RFC 1407)

The DS3-MIB contains a description of DS3 and E3 interfaces objects.

MIB Constraints

[Table 3-31](#) lists the constraints that the Cisco 7600 Series router places on objects in the RFC1407-MIB. For detailed definitions of MIB objects, see the MIB. Any other object not listed in the table is implemented as defined in the RFC 1407-MIB.

Table 3-31 DS3-MIB Constraints

MIB Object	Notes
dsx3ConfigTable	
• dsx3LineType	Supported values are: <ul style="list-style-type: none"> • T3 supports dsx3M23(2) and dsx3CbitParity(4) • E3 supports e3Framed(7) and e3Plcp(8)
• dsx3LineCoding	Read-only. Supported values are: <ul style="list-style-type: none"> • T3 supports dsx3B3ZS(2) • E3 supports e3HDB3(3)
• dsx3SendCode	Read-only. Supports only dsx3SendNoCode
• dsx3TransmitClockSource	Supported values are loopTiming(1) and localTiming(2).
• dsx3CircuitIdentifier	Read-only.

Table 3-31 DS3-MIB Constraints (continued)

MIB Object	Notes
• dsx3LoopbackConfig	Read-only.
dsx3FarEndConfigTable	Not implemented.
dsx3FarEndCurrentTable	Not implemented.
dsx3FarEndIntervalTable	Not implemented.
dsx3FarEndTotalTable	Not implemented.
dsx3FracTable	Not implemented.

* All T3/ATM line cards only support read-only values on all variables.

* The RFC1407-MIB usage supports the Cisco 7600 PA-MC-T3, PA-MC-E3, PA-A3-T3, PA-A3-E3 port adapters.

* Currently for the dsx3FracTable to operate, the DS1 layer must be implemented in the ifTable. In this release, this table is shown as not implemented because no rows are instantiated.

DLSW-MIB

The DLSW-MIB (RFC 2024) contains objects to manage data-link switching (DLSW) on the router.

ENTITY-MIB (RFC 2737)

The ENTITY-MIB allows functional component discovery. It is used to represent physical and logical entities (components) in the router and manages those entities. The current software release supports the RFC 2737 version of this MIB. This MIB is applicable to all OSM WAN ports, FlexWAN cards, port adapters, and Cisco DWDM GBIC and XENPAK transceivers.

The following are the conformance groups contained in the ENTITY-MIB:

- **entityPhysical** group—Describes the physical entities managed by a single agent.
- **entityLogical** group—Describes the logical entities managed by a single agent.
- **entityMapping** group—Describes the associations between the physical entities, logical entities, interfaces, and non-interface ports managed by a single agent.
- **entityGeneral** group—Describes general system attributes shared by potentially all types of entities managed by a single agent.
- **entityNotifications** group—Contains status indication notifications.

The following groups are added from RFC 2737:

- **entityPhysical2** group—This group augments the entityPhysical group.
- **entityLogical2** group—Describes the logical entities managed by a single agent, and replaces entityLogical group.

The MIB table entPhysicalTable identifies the physical entities in the router. The entPhysicalTable contains a single row for the Cisco 7600 chassis and a row for each entity in the chassis. A physical entity may contain other entities. For example, a SIP-200 in slot 6 with one 4xOC3 POS SPA in subslot 6/0, supports the following entities in this table: SPA and SIP modules, sensors on the SIP, and SPA ports.

For detailed definitions of MIB objects, see the MIB.

ENTITY-SENSOR-MIB

The ENTITY-SENSOR-MIB contains objects that manage physical sensors, which are represented in the Entity MIB with entPhysicalEntry and an entPhysicalClass value of sensor(8). The ENTITY-SENSOR-MIB contains a single table, called the entPhySensorTable.

ETHERLIKE-MIB (RFC 2665, 3635)

The ETHERLIKE-MIB (RFC 2665) contains objects to manage Ethernet-like interfaces. Release 12.2(18)SXF and 12.2(33)SRA support the RFC 2665 version of the MIB. Release 12.2(33)SRC supports the RFC 3635 version of the MIB.

EVENT-MIB

The EVENT-MIB contains objects to define event triggers and actions for network management purposes.

EXPRESSION-MIB

The EXPRESSION-MIB contains objects to define expressions of MIB objects for network management purposes.

FR-MFR-MIB

The FR-MFR-MIB provides objects to control and monitor the multilink frame relay (MFR) function described in FRF.16.

HC-RMON-MIB

The HC-RMON- MIB augments the original RMON MIB as specified in RFC 1757 and RFC 1513. The RMON2 MIB as specified in RFC 2021. RMON AND RMON2 are defined in RMON (RFC 1757) and the Token Ring RMON MIB (RFC 1513) and the RMON2 MIB (RFC 2021)]

The MIB module for managing remote monitoring device implementations. The HC-RMON- MIB module enhances the original RMON MIB as specified in RFC 1757 and RFC 1513 standards. and also the RMON2 MIB as specified in the RFC 2021 standard.

IEEE8021-CFM-MIB

The IEEE8021-CFM-MIB is a Connectivity Fault Management (CFM) module for managing IEEE 802.1ag

IEEE8021-PAE-MIB

The IEEE8021-PAE-MIB is the Port Access Entity module for managing IEEE 802.1X.

IEEE8023-LAG-MIB

The IEEE 8023-LAG- MIB is the Link Aggregation module for managing IEEE Std 802.3ad.

IF-MIB (RFC 2863)

The IF-MIB (RFC 2863) describes the attributes of physical and logical interfaces (network interface sub-layers). The router supports the ifGeneralGroup of MIB objects for all layers (ifIndex, ifDescr, ifType, ifSpeed, ifPhysAddress, ifAdminStatus, ifOperStatus, ifLastChange, ifName, ifLinkUpDownTrapEnable, ifHighSpeed, and ifConnectorPresent).

One of the most commonly used identifiers in SNMP-based network management applications is the Interface Index (ifIndex) value. IfIndex is a unique identifying number associated with a physical or logical interface.

IGMP-MIB

The IGMP-MIB manages Internet Group Management Protocol (IGMP).

IMA-MIB

The IMA-MIB manages ATM Forum Inverse Multiplexing for ATM (IMA) interfaces

INT-SERV-GUARANTEED-MIB

The INT-SERV-GUARANTEED-MIB describes the guaranteed service of the Integrated Services Protocol (ISP).

INT-SERV-MIB

The INT-SERV-MIB describes the Integrated Services Protocol (ISP).

INTEGRATED-SERVICES-MIB

The INTEGRATED-SERVICES-MIB contains objects to manage the Integrated Services Protocol

IP-FORWARD-MIB

The IP-FORWARD-MIB contains objects to control the display of CIDR multipath IP Routes.

IP-MIB

The IP-MIB module contains objects for managing IP and ICMP implementations, but excluding their management of IP routes.

IPMROUTE-MIB

The IPMROUTE-MIB contains objects to manage IP multicast routing on the router, independent of the actual multicast routing protocol in use.

IPMROUTE-STD-MIB

The IPMROUTE-STD-MIB contains objects to manage IP multicast routing, but independent of the specific multicast routing protocol in use.

LLDP-MIB

The LLDP-MIB contains objects to manage LLDP configuration, statistics, local system data and remote systems data components.

MPLS-LDP-MIB

The MPLS-LDP-MIB provides management information for the Multiprotocol Label Switching (MPLS) Label Distribution Protocol (LDP), which is used by label switching routers (LSRs) to communicate the definitions of labels that each router is using. The MPLS-LDP-MIB provides objects that perform the following actions:

- Configures LDP sessions on a specific LSR
- Records information that is learned through discovery or from the session initialization message
- Shows the actual sessions that are established or are being established



Note The MIB is based on Revision 08 of the IETF MPLS-LDP-MIB.

This MIB is not included in release 12.2(33)SRC. It is replaced by MPLS-LDP-STD-MIB and MPLS-LDP-GENERIC-STD-MIB (RFC 3815).

For detailed MPLS MIB object support and usage, go to the following URL:

<http://www.cisco.com/univercd/cc/td/doc/product/software/ios120/120newft/120limit/120st/120st21/ldpmib21.htm>

MIB Constraints

Table 3-32 lists the constraints that the Cisco 7600 Series router places on objects in the MPLS-LDP-MIB. For detailed definitions of MIB objects, see the MIB.

Table 3-32 MPLS-LDP-MIB Constraints

MIB Object	Notes
mplsLdpGeneralGroup	
• mplsLdpLsrId	Read-only.
• mplsLdpLsrLoopDetectionCapable	Read-only. Loop Detection is supported by hopCountAndPathVector(5).
• mplsLdpEntityIndexNext	Read-only. Returns a value of 0.
mplsLdpEntityTable	
• mplsLdpEntityProtocolVersion	Read-only.
• mplsLdpEntityAdminStatus	Read-only. If adjacency is directed, value is always enabled(1).
• mplsLdpEntityOperStatus	Read-only. If adjacency is directed, then the operation status is always enabled(1). The adjacency does not appear in this table if operation status is down.
• mplsLdpEntityTcpDscPort	Read-only.
• mplsLdpEntityUdpDscPort	Read-only.
• mplsLdpEntityMaxPduLength	Read-only.
• mplsLdpEntityKeepAliveHoldTimer	Read-only.
• mplsLdpEntityHelloHoldTimer	Read-only.
• mplsLdpEntityInitSesThreshold	Read-only. Default value is 8.
• mplsLdpEntityLabelDistMethod	Read-only.
• mplsLdpEntityLabelRetentionMode	Read-only. If LC-ATM then values are conservative(1) otherwise liberal(2). If directed, then the value is liberal(2).
• mplsLdpEntityPVLimitMisTrapEnable	Read-only.
• mplsLdpEntityPVL	Read-only.
• mplsLdpEntityHopCountLimit	Read-only.
• mplsLdpEntityTargPeer	Read-only.
• mplsLdpEntityTargPeerAddrType	Read-only. Value is ipv4(1).
• mplsLdpEntityTargPeerAddr	Read-only.
• mplsLdpEntityOptionalParameters	Read-only. If LC-ATM, then values are atm(2), otherwise generic(1). If directed, then the value is generic(1).
• mplsLdpEntityDiscontinuityTime	Read-only.
• mplsLdpEntityStorType	Read-only. Value is volatile(2).
• mplsLdpEntityRowStatus	Read-only. Value is active(1).

Table 3-32 MPLS-LDP-MIB Constraints (continued)

MIB Object	Notes
mplsLdpEntityConfGenLRTable	Read-only. This table contains entries for every enabled LDP interface that is not an LC-ATM.
<ul style="list-style-type: none"> mplsLdpEntityConfGenLRMin mplsLdpEntityConfGenLRMax mplsLdpEntityConfGenIfIndexOrZero mplsLdpEntityConfGenLRStorType mplsLdpEntityConfGenLRRowStatus 	<ul style="list-style-type: none"> Not-accessible. Index value. Not-accessible. Index value. Read-only. Always 0. Read-only. Value is volatile(2). Read-only. Value is active(1).
mplsLdpEntityAtmParmsTable	Not implemented. Cisco 7600 does not support LC-ATM enabled interfaces.
mplsLdpEntityConfAtmLRTable	Not implemented. Cisco 7600 does not support LC-ATM enabled interfaces.
mplsLdpEntityFrParmsTable	Not implemented.
mplsLdpEntityConfFrLRTable	Not implemented.
mplsLdpEntityStatsTable	
<ul style="list-style-type: none"> mplsLdpAttemptedSessions mplsLdpSesRejectedNoHelloErrors mplsLdpSesRejectedAdErrors mplsLdpSesRejectedMaxPduErrors mplsLdpSesRejectedLRErrors mplsLdpBadLdpIdentifierErrors mplsLdpBadPduLengthErrors mplsLdpBadMessageLengthErrors mplsLdpBadTlvLengthErrors mplsLdpMalformedTlvValueErrors mplsLdpKeepAliveTimerExpErrors mplsLdpShutdownNotifReceived mplsLdpShutdownNotifSent 	<ul style="list-style-type: none"> Read-only. Read-only. Read-only. Read-only. Read-only. Read-only. Read-only. Read-only. Read-only. Read-only. Read-only. Read-only. Read-only.
mplsLdpPeerTable	
<ul style="list-style-type: none"> mplsLdpPeerLabelDistMethod mplsLdpPeerLoopDetectionForPV mplsLdpPeerPVL 	<ul style="list-style-type: none"> Read-only. Read-only. Value is enabled(1). Read-only.
mplsLdpHelloAdjanceyTable	
<ul style="list-style-type: none"> mplsLdpHelloAdjHoldTimeRem mplsLdpHelloAdjType mplsLdpSesUpDownTrapEnable 	<ul style="list-style-type: none"> Read-only. Read-only. Read-write.
mplsLdpSessionTable	

Table 3-32 MPLS-LDP-MIB Constraints (continued)

MIB Object	Notes
<ul style="list-style-type: none"> mplsLdpSesState 	Read-only.
<ul style="list-style-type: none"> mplsLdpSesProtocolVersion 	Read-only.
<ul style="list-style-type: none"> mplsLdpSesKeepAliveHoldTimeRem 	Read-only.
<ul style="list-style-type: none"> mplsLdpSesMaxPduLen 	Read-only.
<ul style="list-style-type: none"> mplsLdpSesDiscontinuityTime 	Read-only.
mplsLdpAtmSesTable	Not implemented. Cisco 7600 does not support LC-ATM enabled interfaces
mplsLdpFrameRelaySesTable	Not implemented.
mplsLdpSesStatsTable	
<ul style="list-style-type: none"> mplsLdpSesStatsUnkMesTypeErrors 	Read-only.
<ul style="list-style-type: none"> mplsLdpSesStatsUnkTlvErrors 	Read-only.
mplsFecTable	Not implemented.
mplsFecIndexNext	Not implemented.
mplsLdpSesInLabelMapTable	Not implemented.
mplsLdpSesOutLabelMapTable	Not implemented.
mplsLdpSesXCMapTable	Not implemented.
mplsXCsfecsTable	Not implemented.
mplsLdpSesPeerAddrTable	Not implemented.

Important information about using the MPLS-LDP-MIB:

The mplsLdpEntityTable is used to configure the LSR for using LDP. There must be at least one LDP entity for the LSR to support LDP. Each row in this table refers to a single LDP entity.

Entries in the mplsLdpEntityConfGenericTable refer to configured Generic Labels on LDP entities. An LDP entity can have zero or more generic labels.

The mplsLdpEntityFrameRelayParmsTable contains Frame Relay specific information and parameters for LDP entities. The mplsLdpEntityConfFrLRTTable provides a mechanism for specifying a range of DLCI values, or a label range for LDP entities.

The mplsLdpEntityStatsTable enhances the mplsLdpEntityTable and contains statistics about the LDP entities in the LSR. The mplsLdpEntityPeerTable contains information about LDP peers in the mplsLdpEntityTable. This information is based on information gathered through Entity-Peer interaction.

The mplsLdpSessionTable represents a table of sessions between LDP entities and LDP peers and contains information about these sessions. The mplsHelloAdjacencyTable is a table of Hello Adjacencies for Sessions. A session can have one or more Hello Adjacencies. The mplsLdpFrameRelaySessionTable relate Sessions to its label range intersections. The mplsLdpSessionStatsTable augments the mplsLdpSessionTable and contains statistics about each Session between a LDP entities and a LDP peer. The mplsLdpSesPeerAddressTable extends the mplsLdpSessionTable and is used to store Label Address Information from Label Address Messages received by this LSR from Peers.

The Cisco 7600 router does not support LC-ATM (label-controlled) interfaces.

MPLS-LDP-ATM-STD-MIB (RFC 3815)

The MPLS-LDP-ATM-STD-MIB (RFC 3815) contains managed object definitions for configuring and monitoring the Multiprotocol Label Switching (MPLS), Label Distribution Protocol (LDP), utilizing Asynchronous Transfer Mode (ATM) as the Layer 2 media.

MPLS-LDP-GENERIC-STD-MIB (RFC 3815)

The MPLS-LDP-GENERIC-STD-MIB (RFC 3815)- This MIB contains managed object definitions for configuring and monitoring the Multiprotocol Label Switching (MPLS), Label Distribution Protocol (LDP), utilizing ethernet as the Layer 2 media.

MPLS-LDP-STD-MIB (RFC 3815)

The MPLS-LDP-STD-MIB (RFC 3815) contains managed object definitions for the Multiprotocol Label Switching, Label Distribution Protocol, (LDP) document.

MPLS-LSR-MIB

The MPLS-LSR-MIB provides configuration and remote performance monitoring information to manage label switched paths (LSPs) through a label switching router (LSR) that is using the Multiprotocol Label Switching (MPLS) technology. The router supports Version 5 of the IETF MPLS-LSR-MIB. This MIB is not included in release 12.2(33)SRC. It is replaced by MPLS-LSR-STD-MIB.

MIB Constraints

[Table 3-33](#) lists the constraints that the Cisco 7600 Series router places on objects in the MPLS-LSR-MIB. For detailed definitions of MIB objects, see the MIB.

Table 3-33 MPLS-LSR-MIB Constraints

MIB Object	Notes
mplsInterfaceConfTable	
• mplsInterfaceConfStorageType	Default read-only (5).
• mplsInterfaceAvailableBandwidth	Read-only. Always 0.
• mplsInterfaceTotalBandwidth	Read-only. Always 0.
• mplsInterfaceTotalBuffer	Read-only. Always 0.
• mplsInterfaceAvailableBuffer	Read-only. Always 0.
mplsInterfacePerfTable	
• mplsInterfaceInPackets	Read-only. Always 0.
• mplsInterfaceInDiscards	Read-only. Always 0.
• mplsInterfaceFailedLabelLookup	Read-only. Always 0.
• mplsInterfaceOutPackets	Read-only. Always 0.
• mplsInterfaceOutDiscards	Read-only. Always 0.
• mplsInterfaceOutFragments	Read-only. Always 0.
mplsInSegmentTable	
• mplsInSegmentAdminStatus	Read-only. Always up(1).

Table 3-33 MPLS-LSR-MIB Constraints (continued)

MIB Object	Notes
• mplsInSegmentOperStatus	Always up(1).
• mplsInSegmentNPop	Read-only.
• mplsInSegmentAddrFamily	Read-only.
• mplsInSegmentOwner	Read-only. Other(1)
• mplsInSegmentTrafficParamPtr	Read-only. Always 0.
• mplsInSegmentRowStatus	Read-only. Active(5).
• mplsInSegmentStorageType	Read-only(5).
mplsInSegmentPerfTable	
• mplsInSegmentOctets	Read-only. Always 0.
• mplsInSegmentPackets	Read-only. Always 0.
• mplsInSegmentHCOctets	Read-only. Always 0.
• mplsInSegmentErrors	Read-only. Always 0.
• mplsInSegmentDiscards	Read-only. Always 0.
mplsOutSegmentTable	
• mplsOutSegmentIfIndex	Read-only.
• mplsOutSegmentPushTopLabel	Read-only. Always False(2).
• mplsOutSegmentTopLabel	Read-only.
• mplsOutSegmentNextHopIpAddrType	Read-only.
• mplsOutSegmentNextHopIpv4Addr	Read-only. Always ipv4(1).
• mplsOutSegmentNextHopIpv6Addr	Read-only. Always 0.
• mplsOutSegmentOwner	Read-only. Other(1).
• mplsOutSegmentTrafficParamPtr	Read-only. Always 0.
• mplsOutSegmentRowStatus	Read-only. Active(5).
• mplsOutSegmentStorageType	ReadOnly(5).
• mplsOutSegmentAdminStatus	Read-only. Always up(1).
• mplsOutSegmentOperStatus	Always up(1).
mplsOutSegmentPerfTable	
• mplsOutSegmentOctets	Read-only. Always 0.
• mplsOutSegmentPackets	Read-only. Always 0.
• mplsOutSegmentHCOctets	Read-only. Always 0.
• mplsOutSegmentErrors	Read-only. Always 0.
• mplsOutSegmentDiscards	Read-only. Always 0.
• mplsOutSegmentPerfDiscontinuityTime	Read-only. Always 0.
mplsXCTable	
• mplsXCLspId	Read-only. Does not support tunnel IDs.

Table 3-33 MPLS-LSR-MIB Constraints (continued)

MIB Object	Notes
• mplsXCLabelStackIndex	Read-only. Value will be set to 0 because XCLabelStack is not supported.
• mplsXCIsPersistent	Read-only. Value is false(2).
• mplsXCOwner	Read-only. Other(1).
• mplsXCRowStatus	Read-only. Value is active(1).
• mplsXCStorageType	Read-only.
• mplsXCAdminStatus	Read-only. Always up(1).
• mplsXCOperStatus	Always up(1).
• mplsOutSegmentIndexNext	Read-only. Always 0.
• mplsXCIndexNext,	Read-only. Always 0.
• mplsLabelStackIndexNext	Read-only. Always 0.
• mplsTrafficParamIndexNext	Read-only. Always 0.
mplsLabelStackTable	Not implemented.
mplsTrafficParamTable	Not implemented.
• mplsInSegmentTrapEnable	Read-only. Always False(2).
• mplsOutSegmentTrapEnable	Read-only. Always False(2).
• mplsXCTrapEnable	Read-only. Always False(2).
• mplsXCUp	*Not implemented.
• mplsXCDown	*Not implemented.
• mplsInSegmentUp	*Not implemented.
• mplsInSegmentDown	*Not implemented.
• mplsOutSegmentUp	*Not implemented.
• mplsOutSegmentDown	*Not implemented.

* Not supported because of scalability issues.

mplsInterfaceConfTable—Provides information for each MPLS-capable interface on an LSR.

mplsInterfacePerfTable—Augments the MPLS interface configuration table.

mplsInSegmentTable—Contains a description of incoming segments (labels) at an LSR and their associated parameters. Administrative and operational status objects for this table control packet transmission. If administrative and operational status objects are down, the LSR does not forward packets. If these status objects are up, the LSR forwards packets.

mplsInSegmentPerfTable—Augments the MPLS in-segment table, providing performance information and counters for incoming segments on an LSR.

mplsOutSegmentTable—Contains a description of outgoing segments from an LSR and their associated parameters. Administrative and operational status objects for this table control packet transmission. If administrative and operational status objects are down, the LSR does not forward packets. If these values are up, the LSR forwards packets.

mplsOutSegmentPerfTable—Augments the MPLS out-segment table, providing performance information and counters for outgoing segments on an LSR.

mplsXCTable—Associates inSegments (labels) to outSegments (labels) to show the manager how the LSR is currently swapping these labels. A row in this table consists of one cross-connect entry that is indexed by the cross-connect index, the interface index of the incoming segment, the incoming label, and the out-segment index. The administrative and operational objects for this table control packet forwarding to and from a cross-connect entry (XCEntry). The administrative status and operational status are always up in the Cisco implementation. Otherwise, the LSR would not forward packets.

MPLS-LSR-STD-MIB (RFC 3031)

The MPLS-LSR-STD-MIB (RFC 3031) contains managed object definitions for the Multiprotocol Label Switching (MPLS) Router.

MPLS-L3VPN-STD-MIB

The MPLS-L3VPN-STD-MIB contains managed object definitions for the Layer-3 Multiprotocol Label Switching Virtual Private Networks. This MIB is based on RFC 4382 specification.

MPLS-TC-MIB

The MPLS-TC-MIB defines Textual Conventions and OBJECT-IDENTITIES for use in documents defining management information bases (MIBs) for managing MPLS networks.

MPLS-TE-MIB

The MPLS-TE-MIB enables the Cisco 7600 Series router to perform traffic engineering for MPLS tunnels. The MIB is based on Revision 05 of the IETF MPLS-TE-MIB.

Traffic engineering support for MPLS tunnels requires the following configuration:

- Setting up MPLS tunnels with appropriate configuration parameters.
- Configuring tunnel loose and strict source routed hops.

MIB Constraints

[Table 3-34](#) lists the constraints that the Cisco 7600 Series router places on objects in the MPLS-TE-MIB. For detailed definitions of MIB objects, see the MIB.

Table 3-34 *MPLS-TE-MIB Constraints*

MIB Object	Notes
mplsTunnelIndexNext	Read-only. Always 0.
mplsTunnelTable	
• mplsTunnelName	Read-only.
• mplsTunnelDescr	Read-only.
• mplsTunnelIsif	Read-only.
• mplsTunnelXCPointer	Read-only.
• mplsTunnelSignallingProto	Read-only.
• mplsTunnelSetupPrio	Read-only. Always 7.
• mplsTunnelHoldingPrio	Read-only. Always 7.
• mplsTunnelSessionAttributes	Read-only.

Table 3-34 MPLS-TE-MIB Constraints (continued)

MIB Object	Notes
• mplsTunnelOwner	Read-only.
• mplsTunnelLocalProtectInUse	Read-only. Always false(2).
• mplsTunnelResourcePointer	Read-only.
• mplsTunnelInstancePriority	Read-only. Always 0.
• mplsTunnelHopTableIndex	Read-only.
• mplsTunnelIncludeAnyAffinity	Read-only. Always 0.
• mplsTunnelIncludeAllAffinity	Read-only.
• mplsTunnelExcludeAllAffinity	Read-only.
• mplsTunnelPathInUse	Read-only.
• mplsTunnelRole	Read-only.
• mplsTunnelTotalUpTime	Read-only.
• mplsTunnelInstanceUpTime	Read-only. Always 0.
• mplsTunnelAdminStatus	Read-only.
• mplsTunnelRowStatus	Read-only. Always readOnly(5).
• mplsTunnelStorageType	Read-only. Volatile (2). Always active.
mplsTunnelHopListIndexNext	Read-only. Always 0.
mplsTunnelHopTable	
• mplsTunnelHopAddrType	Read-only. Always ipv4(1).
• mplsTunnelHopIpv4Addr	Read-only.
• mplsTunnelHopIpv4PrefixLen	Read-only. Always 32.
• mplsTunnelHopIpv6Addr	Read-only. NULL.
• mplsTunnelHopIpv6PrefixLen	Read-only. Always 0.
• mplsTunnelHopAsNumber	Read-only.
• mplsTunnelHopLspId	Read-only.
• mplsTunnelHopType	Read-only. Always strict(1).
• mplsTunnelHopRowStatus	Read-only. Always active(1).
• mplsTunnelHopStorageType	Read-only. Value is readOnly(5).
mplsTunnelResourceIndexNext	Read-only. Always 0.
mplsTunnelResourceTable	
• mplsTunnelResourceMaxRate	Read-only.
• mplsTunnelResourceMeanRate	Read-only.
• mplsTunnelResourceMaxBurstSize	Read-only.
• mplsTunnelResourceRowStatus	Read-only. Always active(1).

Table 3-34 MPLS-TE-MIB Constraints (continued)

MIB Object	Notes
<ul style="list-style-type: none"> mplsTunnelResourceStorageType 	Read-only. Value is readOnly(5).
<p>The mplsTunnelTable allows new MPLS tunnels to be created between an MPLS LSR and a remote endpoint and existing tunnels to be reconfigured or removed. The Cisco 7600 supports point-to-point tunnel segments, although multi-point-to-point and point-to-multipoint connections are supported by an LSR acting as a cross-connect. Each MPLS tunnel can have one out-segment originating at an LSR and one in-segment terminating at that LSR. The mplsTunnelTable is enhanced by the mplsTunnelPerfTable which provides several counters to measure the performance of the MPLS tunnels.</p> <p>The mplsTunnelResourceTable indicates the resources required for a tunnel. Multiple tunnels can share the same resources by pointing to the same entry in this table. Tunnels that do not share resources must point to separate entries in this table.</p> <p>The mplsTunnelHopTable indicates strict or loose hops for an MPLS tunnel defined in mplsTunnelTable, when you establish the hop using signaling. Multiple tunnels share the same hops by pointing to the same entry in this table. Each row also has a secondary index, mplsTunnelHopIndex, corresponding to the next hop of this tunnel. The scalar mplsTunnelMaxHops indicates the maximum number of hops that you can specify on each tunnel supported by this LSR. The mplsTunnelARHopTable indicates the actual hops crossed by a tunnel as reported by the MPLS signaling protocol after the tunnel is setup.</p> <p>There are three notifications in this MIB module. The notifications mplsTunnelUp and mplsTunnelDown indicate that the value of mplsTunnelOperStatus has transitioned to up(1) or down(2). The notification mplsTunnelRerouted is generated when a tunnel is rerouted or re-optimized.</p>	

MPLS-VPN-MIB

The MPLS-VPN-MIB:

- Describes managed objects for modeling a Multiprotocol Label Switching/Border Gateway Protocol Virtual Private network
- Configures and monitor routes and route targets for each VRF instance on a router
- Facilitates provisioning VPN Routing and Forwarding (VRF) instances on MPLS interfaces
- Measures the performance of MPLS/BGP VPNs

The MIB is based on Revision 05 of the IETF MPLS-VPN-MIB.

MIB Constraints

Table 3-35 lists the constraints that the Cisco 7600 Series router places on objects in the MPLS-VPN-MIB. For detailed definitions of MIB objects, see the MIB.

Table 3-35 MPLS-VPN-MIB Constraints

MIB Object	Notes
mplsNumVrfSecViolationThreshExceeded	Not implemented.
mplsVpnVrfSecTable	
<ul style="list-style-type: none"> mplsVpnVrfSecIllegalLabelViolations mplsVpnVrfSecIllegalLabelRcvThresh 	Read-only. Always 0.
mplsVpnVrfTable	
<ul style="list-style-type: none"> mplsVpnVrfConfRowStatus mplsVpnVrfConfStorageType 	Read-only. Volatile(2).

Table 3-35 MPLS-VPN-MIB Constraints (continued)

MIB Object	Notes
• mplsVpnVrfConfMidRouteThreshold	Read-only.
• mplsVpnVrfConfHighRouteThreshold	Read-only
• mplsVpnVrfConfMaxRoutes	Read-only
• mplsVpnVrfConfMaxPossibleRoutes	Read-only. Always 0.
• mplsVpnVrfDescription	Read-only
• mplsVpnInterfaceVpnClassification	Read-only
mplsVpnInterfaceConfTable	
• mplsVpnInterfaceConfStorageType	Read-only. Volatile(2).
• mplsVpnInterfaceConfRowStatus	Read-only. Values: active(1), notInService(2).
• mplsVpnInterfaceLabelEdgeType	Read-only. providerEdge(1).
mplsVpnVrfRouteTargetTable	
• mplsVpnVrfRouteTargetRowStatus	Read-only. Values: active(1), notInService(2).
mplsVpnVrfBgpNbrAddrTable	
• mplsVpnVrfBgpNbrRowStatus	Read-only. Values: active(1), notInService(2).
• mplsVpnVrfBgpNbrRole	Read-only. providerEdge(1).
• mplsVpnVrfBgpNbrType	Read-only.
• mplsVpnVrfBgpNbrAddr	Read-only.
• mplsVpnVrfBgpNbrStorageType	Read-only. Volatile(2).
mplsVpnVrfRouteTable	
• mplsVpnVrfRouteInfo	Read-only. Value nullOID.
• mplsVpnVrfRouteTarget	Read-only. Determines the route distinguisher for this target.
• mplsVpnVrfRouteTargetDescr	Description of the route target. This object is not supported in this Cisco IOS release. Therefore, the object is the same as mplsVpnVrfRouteTarget.
• mplsVpnVrfRouteDistinguisher	Read-only.
• mplsVpnVrfRouteNextHopAS	Read-only. Always 0.
• mplsVpnVrfRouteRowStatus	Read-only. This object normally reads active (1), but may read notInService (2), if a VRF was recently deleted.
• mplsVpnVrfRouteStorageType	Read-only. Volatile(2).
• mplsVpnVrfRouteDestAddrType	Read-only.
• mplsVpnVrfRouteMaskAddrType	Read-only.
• mplsVpnVrfRouteTos	Read-only. Always 0.
• mplsVpnVrfRouteNextHop	Read-only.
• mplsVpnVrfRouteNextHopAddrType	Read-only.

Table 3-35 *MPLS-VPN-MIB Constraints (continued)*

MIB Object	Notes
<ul style="list-style-type: none"> • mplsVpnVrfRouteifIndex • mplsVpnVrfRouteType • mplsVpnVrfRouteProto 	Read-only.
mplsVpnVrfBgpNbrPrefixTable	Not implemented.

The mplsVpnVrfConfTable represents all the MPLS/BGP VPNs configured. The NMS configures an entry in this table for each MPLS/BGP VPN configured to run in this MPLS domain. The mplsVPNInterfaceConfTable extends the interface MIB to provide specific MPLS/BGP VPN information on MPLS/BGP VPN-enabled interfaces. The mplsVPNPerfTable enhances the mplsVpnVrfConfTable to provide performance information.

The mplsVpnVrfRouteTable and the mplsVpnRouteTargetTable facilitate the configuration and monitoring of routes and route targets, respectively, for each VRF instance.

MSDP-MIB

The MSDP-MIB contains objects to monitor the Multicast Source Discovery Protocol (MSDP). The MIB can be used with SNMPv3 to remotely monitor MSDP speakers.

For more information about this MIB, see its feature module description at the following URL:

<http://www.cisco.com/univercd/cc/td/doc/product/software/ios121/121newft/121t/121t5/dt5msdp.htm>

NOTIFICATION-LOG-MIB

The NOTIFICATION-LOG-MIB contains objects for logging SNMP Notifications, that is, Traps and Informs.

NOVELL-IPX-MIB

The NOVELL-IPX-MIB defines the management information for a system using the IPX protocol. This MIB is designed to provide a basic framework for the management of systems implementing the IPX protocol. It is identical to the IPX MIB distributed as a part of the Novell NetWare Link Services Protocol (NLSP) Specification 1.0, Novell Part Number 100-001708-002, 2nd Edition Feb 1994.

NOVELL-NLSP-MIB

The NOVELL-NLSP-MIB defines the management information for the NLSP protocol that operates in an IPX environment. It provides information in addition to that information contained in the IPX MIB itself. This MIB is identical to the NLSP-MIB distributed as a part of the Novell NetWare Link Services Protocol (NLSP) Specification 1.0, Novell Part Number 100-001708-002, 2nd Edition Feb 1994.

NOVELL-RIPSAP-MIB

The NOVELL-RIPSAP-MIB defines the management information for the RIP and SAP protocols running in an IPX environment. It provides information in addition to that contained in the IPX MIB itself. This MIB is identical to the RIPSAP-MIB distributed as a part of the Novell NetWare Link Services Protocol (NLSP) Specification 1.0, Novell Part Number 100-001708-002, 2nd Edition Feb 1994.

OLD-CISCO-APPLETALK-MIB

The OLD-CISCO-APPLETALK-MIB provides information about AppleTalk traffic on the router.

OLD-CISCO-CHASSIS-MIB

The OLD-CISCO-CHASSIS-MIB describes chassis objects in devices running an older implementation of the Cisco IOS operating system. Those objects are now described in the ENTITY-MIB.

However, the Cisco 7600 Series router implements the OLD-CISCO-CHASSIS-MIB to support older network management applications that do not implement the ENTITY-MIB.

The router uses this MIB for port adapters, which are not supported in the CISCO-STACK-MIB. It also contains information about FlexWAN modules. Network management applications that do not support the ENTITY-MIB can use the OLD-CISCO-CHASSIS-MIB to discover FlexWAN modules and port adapters.

MIB Constraints

The OLD-CISCO-CHASSIS-MIB is deprecated. Chassis objects are now described in the ENTITY-MIB; therefore, where possible, we recommend that you use the ENTITY-MIB instead of the OLD-CISCO-CHASSIS-MIB.



Note

The OLD-CISCO-CHASSIS-MIB is supported on the Cisco 7600 Series router for LAN cards, OSM cards, and FlexWAN/PAs. Currently, SIPs and SPAs are only supported through the ENTITY-MIB, therefore do not use the older MIBs.

[Table 3-36](#) lists the constraints that the router places on objects in the MIB. For detailed definitions of MIB objects, see the MIB.

Table 3-36 *OLD-CISCO-CHASSIS-MIB Constraints for FlexWAN Modules and Port Adapters*

MIB Object	Notes
cardTable	

Table 3-36 OLD-CISCO-CHASSIS-MIB Constraints for FlexWAN Modules and Port Adapters

MIB Object	Notes																														
<ul style="list-style-type: none"> cardType 	<p>The following values are used for 7600 router cards:</p> <table border="1"> <thead> <tr> <th>Module or Port Adapter</th> <th>cardType Value</th> </tr> </thead> <tbody> <tr><td>FlexWAN2 wsx-6582-2pa</td><td>(689)</td></tr> <tr><td>FlexWAN wsx_6182_2pa</td><td>(658)</td></tr> <tr><td>PA-A3-T3 pa_atmdx_ds3</td><td>(406)</td></tr> <tr><td>PA-A3-E3 pa_atmdx_e3</td><td>(407)</td></tr> <tr><td>PA-A3-OC-3SML pa_atmdx_sml_OC3</td><td>(408)</td></tr> <tr><td>PA-A3-OC-3-SMI pa_atmdx_smi_oc3</td><td>(409)</td></tr> <tr><td>PA-A3-OC-3MM pa_atmdx_mm_oc3</td><td>(410)</td></tr> <tr><td>PA-MC-4T1 pa_4ct1_csu</td><td>(428)</td></tr> <tr><td>PA-MC-8T1 pa_8ct1_csu</td><td>(429)</td></tr> <tr><td>PA-MC-E3 pa_ima_t1</td><td>(569)</td></tr> <tr><td>PA-A3-8E1IMA pa_ima_e1</td><td>(570)</td></tr> <tr><td>PA-MC-T3 pa_mct3</td><td>(804)</td></tr> <tr><td>PA-MC-STM-1SMI pa_mc_stm1_smi</td><td>(817)</td></tr> <tr><td>PA-MC-STM-1MM pa_mc_stm1_mm</td><td>(818)</td></tr> </tbody> </table>	Module or Port Adapter	cardType Value	FlexWAN2 wsx-6582-2pa	(689)	FlexWAN wsx_6182_2pa	(658)	PA-A3-T3 pa_atmdx_ds3	(406)	PA-A3-E3 pa_atmdx_e3	(407)	PA-A3-OC-3SML pa_atmdx_sml_OC3	(408)	PA-A3-OC-3-SMI pa_atmdx_smi_oc3	(409)	PA-A3-OC-3MM pa_atmdx_mm_oc3	(410)	PA-MC-4T1 pa_4ct1_csu	(428)	PA-MC-8T1 pa_8ct1_csu	(429)	PA-MC-E3 pa_ima_t1	(569)	PA-A3-8E1IMA pa_ima_e1	(570)	PA-MC-T3 pa_mct3	(804)	PA-MC-STM-1SMI pa_mc_stm1_smi	(817)	PA-MC-STM-1MM pa_mc_stm1_mm	(818)
Module or Port Adapter	cardType Value																														
FlexWAN2 wsx-6582-2pa	(689)																														
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PA-A3-OC-3SML pa_atmdx_sml_OC3	(408)																														
PA-A3-OC-3-SMI pa_atmdx_smi_oc3	(409)																														
PA-A3-OC-3MM pa_atmdx_mm_oc3	(410)																														
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PA-MC-STM-1SMI pa_mc_stm1_smi	(817)																														
PA-MC-STM-1MM pa_mc_stm1_mm	(818)																														
<ul style="list-style-type: none"> cardOperStatus 	Port adapter status matches FlexWAN module status, up(2).																														
<ul style="list-style-type: none"> cardSerial 	All zero (0).																														
<ul style="list-style-type: none"> cardHwVersion 	FlexWAN module, 1.3. PAs not applicable.																														
<ul style="list-style-type: none"> cardSwVersion 	FlexWAN module 12.1(13)E. PAs not applicable.																														
<ul style="list-style-type: none"> cardSlotNumber 	<ul style="list-style-type: none"> FlexWAN is 2. ATM-OC-3 PA is 0. Channelized STM-1 PA is 1. 																														
<ul style="list-style-type: none"> cardContainedByIndex 	<ul style="list-style-type: none"> FlexWAN is 0. ATM-OC-3 PA is 2. Channelized STM-1 PA is 2. 																														
<ul style="list-style-type: none"> CardSlots 	<ul style="list-style-type: none"> FlexWAN is 2. ATM-OC-3 PA is 0. Channelized STM-1 PA is 0. 																														
cardifIndexTable																															
<ul style="list-style-type: none"> CardifConnectorTypeEnabled 	Always not-specified(1).																														
<ul style="list-style-type: none"> cardifSlotNumber 	<ul style="list-style-type: none"> ATM-OC-3 PA is bay# 0. Channelized STM-1 PA is bay # 1. 																														
<ul style="list-style-type: none"> CardifPortNumber 	<ul style="list-style-type: none"> ATM-OC-3 PA is 0. Channelized STM-1 PA is 0. 																														
<ul style="list-style-type: none"> CardifCardIndex 	<ul style="list-style-type: none"> ATM-OC-3 PA is 6. Channelized STM-1 PA is 7. 																														
Entries used for port adapters only. Not used for FlexWAN modules.																															

OLD-CISCO-CPU-MIB

The OLD-CISCO-CPU-MIB describes CPU usage and active system processes on devices running an older implementation of the Cisco IOS operating system.

OLD-CISCO-DECNET-MIB

The OLD-CISCO-DECNET-MIB provides information about the implementation of DECnet on the router. DECnet is group of communications products (including a protocol suite) developed by Digital Equipment Corporation that supports the Open System Interconnection (OSI) protocol and proprietary Digital protocols.

OLD-CISCO-INTERFACES-MIB

The OLD-CISCO-INTERFACES-MIB contains objects to manage interfaces on devices running an older implementation of the Cisco IOS operating system.

OLD-CISCO-IP-MIB

The OLD-CISCO-IP-MIB contains objects to manage IP on devices running an older implementation of the Cisco IOS operating system.

OLD-CISCO-MEMORY-MIB

The OLD-CISCO-MEMORY-MIB contains objects that describe memory pools on devices running an older implementation of the Cisco IOS operating system.

OLD-CISCO-NOVELL-MIB

The OLD-CISCO-NOVELL-MIB provides information about Novell traffic on the router, including packet counts and IPX accounting and checkpoint accounting information.

OLD-CISCO-SYS-MIB

The OLD-CISCO-SYS-MIB should only be used in the test tool environment in place of OLD-CISCO-CPU, OLD-CISCO-ENVMON-MIB, OLD-CISCO-MEMORY-MIB, and OLD-CISCO-SYSTEM-MIB MIBs.

OLD-CISCO-SYSTEM-MIB

The OLD-CISCO-SYSTEM-MIB provides information about the router (such as its name, software boot load and configuration file), and contains controls for reloading software onto the router and clearing the Address Resolution Protocol (ARP) cache.

OLD-CISCO-TCP-MIB

Starting with Cisco IOS Release 10.2, all objects defined in this MIB have been deprecated. The objects have been replaced with the objects defined in the CISCO-TCP-MIB. Management applications should no longer be examining the objects defined in this MIB.

OLD-CISCO-TS-MIB

The OLD-CISCO-TS-MIB provides information about the number of terminal lines on this device. Also, includes virtual lines.

OLD-CISCO-VINES-MIB

The OLD-CISCO-VINES-MIB group is present in all router based products. It provides the total input and output number of vines.

OLD-CISCO-XNS-MIB

The OLD-CISCO-XNS-MIB (present in router-based products) provides the total input number of XNS packets.

OSPF-MIB

The OSPF-MIB contains objects that describe the OSPF Version 2 Protocol. The RFC1253-MIB corresponds to the OSPF-MIB (Open Shortest Path First (OSPF) protocol).

OSPF-TRAP-MIB

The OSPF-TRAP-MIB contains objects that describe traps for the OSPF Version 2 Protocol.

PIM-MIB (RFC 2934)

The PIM-MIB contains objects to configure and manage Protocol Independent Multicast (PIM) on the router. The MIB is extracted from RFC 2934.

MIB Constraints

Table 3-37 lists the constraints that the Cisco 7600 Series router places on objects in the PIM-MIB.

Table 3-37 CISCO-PIM-MIB Constraints

MIB Object	Notes
pimIpMRouteTable	Not implemented
pimIpMRouteNextHopTable	Not implemented
pimInterfaceTable	
• pimInterfaceMode	Read only
• pimInterfaceHelloInterval	Read only
• pimInterfaceStatus	Read only
• pimInterfaceJoinPruneInterval	Read only
• pimInterfaceCBSRPreference	Read only
pimJoinPruneInterval	Read only
pimCandidateRPTTable	
• pimCandidateRPAddressd	Read only
• pimCandidateRPRowStatus	Read only
pimComponentTable	
• pimComponentCRPHoldTime	Read only
• pimComponentStatus	Read only

RFC1213-MIB

The RFC1213-MIB defines the second version of the Management Information Base (MIB-II) for use with network-management protocols in TCP-based internets.

RFC1243-MIB (Appletalk)

The RFC1243-MIB uses the extended OBJECT-TYPE macro as defined in [9], Rose, M., and K. McCloghrie, Editors, Concise MIB Definitions, RFC 1212, Performance Systems International, Hughes LAN Systems, March 1991.

RFC1315-MIB (Frame Relay)

The RFC1315-MIB contains objects to manage a Frame Relay data terminal equipment (DTE) interface, which consists of a single physical connection to the network with many virtual connections to other destinations and neighbors. The MIB contains the objects used to manage:

- The Data Link Connection Management Interface (DLCMI)
- Virtual circuits on each Frame Relay interface

- Errors detected on Frame Relay interfaces

MIB Constraints

Table 3-38 lists the constraints that the Cisco 7600 Series router places on objects in the RFC1315-MIB. For detailed definitions of MIB objects, see the MIB. These constraints apply to all frame relay supported interfaces.

Table 3-38 RFC1315-MIB Constraints

MIB Object	Notes
frDlcmiTable	
<ul style="list-style-type: none"> • frDlcmiState 	Values are: <ul style="list-style-type: none"> • noLmiConfigured(1) • lmiRev1(2) • ansiT1-617-D(3) • itit933A(5) (Note: Value is defined in RFC2115.)
<ul style="list-style-type: none"> • frDlcmiAddress 	Values are: <ul style="list-style-type: none"> • q922November90(3) • q922(4) Always returns q922November90(3)
<ul style="list-style-type: none"> • frDlcmiAddressLen 	Value is two-octets(2)
<ul style="list-style-type: none"> • frDlcmiMaxSupportedVCs 	Read-only. Always returns a value of 992.
frCircuitTable	
<ul style="list-style-type: none"> • frCircuitCommittedBurst • frCircuitExcessBurst • frCircuitThroughput 	Normally, the QoS configuration entered through the Modular QoS CLI (MQC) syntax does not appear in these frCircuitTable objects. <p>However, when QoS is configured through the MQC and the following conditions are met, these frCircuitTable objects contain the QoS values as they are entered through the MQC:</p> <ul style="list-style-type: none"> • The default class is configured on the policy-map only. • An output policy is attached to the Frame Relay (FR) Permanent Virtual Circuit (PVC). • The Cisco-class-based-QoS (CBQ) enhancement only supports two MQC actions: police cir and shape. • If both police cir and shape actions exist, then the FR traffic-shaping QoS takes precedence before policing.
<ul style="list-style-type: none"> • frCircuitState 	

Table 3-38 *RFC1315-MIB Constraints (continued)*

MIB Object	Notes
frErrTable	Not implemented.
frDLCIStausChange – No active(3) trap.	
This trap is implemented according to the FRAME-RELAY-DTE-MIB (RFC2115). If the reason for the state change is due to the DLCMI going down, then DLCI traps are not be generated.	

RFC1381-MIB (X25 LAPB)

The RFC1381-MIB is the SNMP MIB Extension for X.25 (specifications) LAPB (Link Access Procedure Balance protocol).

RFC1382-MIB (X25 Packet Layer)

The RFC1382-MIB was extracted from RFC 1382. Several changes were made to the MIB to allow it to compile in our environment:

- Remove IMPORT statements for EntryStatus, PositiveInteger, and ifIndexType.
- Hand-import the above types by copying the definitions from their respective files.
- The range of x25OperRestartCount is increased to be the largest integer possible.

RFC2006-MIB (MIP)

The RFC2006-MIB is the MIB module for the Mobile IP standard.

RMON-MIB (RFC 1757)

The RMON-MIB contains objects to remotely monitor devices in the network. This MIB supports the MIB version RFC 1757.

RMON2-MIB (RFC 2021)

The RMON2-MIB contains objects to manage remote monitoring device implementations. This MIB module enhances the original RMON MIB as specified in RFC 2021.

RS-232-MIB

The RS232-MIB contains objects to manage RS-232-like hardware interfaces and devices.

RSVP-MIB

The RSVP-MIB contains objects to manage the Resource Reservation Protocol (RSVP).

SMON-MIB

The SMON-MIB manages remote monitoring device implementations for switched networks. Identifies the source of the data that the associated function is configured to analyze. This textual convention extends the data source textual convention defined by RMON 2 to the following data source types:

- ifIndex
- smonVlanDataSource
- entPhysicalEntry

SNA-SDLC-MIB

The SNA-SDLC-MIB contains objects that manage SDLC (synchronous data link control) devices.

SNMP-FRAMEWORK-MIB (RFC 2571)

The SNMP-FRAMEWORK-MIB (RFC 2571) contains objects that describe the SNMP management architecture. There are no constraints on this MIB.

SNMP-COMMUNITY-MIB (RFC 2576)

The SNMP-COMMUNITY-MIB (RFC 2576) contains objects that help support coexistence between SNMPv1, SNMPv2c, and SNMPv3.

SNMP-MPD-MIB (RFC 2572)

The SNMP-MPD-MIB (RFC 2572) contains objects for Message Processing and Dispatching.

SNMP-NOTIFICATION-MIB (RFC 2573)

The SNMP-NOTIFICATION-MIB contains managed objects for SNMP v3 notifications. The MIB also defines a set of filters that limit the number of notifications generated by a particular entity (snmpNotifyFilterProfileTable and snmpNotifyFilterTable).

Objects in the snmpNotifyTable are used to select entities in the SNMP-TARGET-MIB snmpTargetAddrTable and specify the types of SNMP notifications those entities are to receive.

SNMP-PROXY-MIB

The SNMP-PROXY-MIB contains managed objects to remotely configure the parameters used by an SNMP entity for proxy forwarding operations. The MIB contains a single table, `snmpProxyTable`, which defines the translations to use to forward messages between management targets.

SNMP-TARGET-MIB (RFC 2573)

The SNMP-TARGET-MIB (RFC 2573) contains objects to remotely configure the parameters used by an entity to generate SNMP notifications. The MIB defines the addresses of entities to send SNMP notifications to, and contains a list of tag values that are used to filter the notifications sent to these entities (see the SNMP-NOTIFICATION-MIB). There are no constraints on this MIB.

SNMP-USM-MIB (RFC 2574)

The SNMP-USM-MIB (RFC 2574) contains objects that describe the SNMP user-based security model.

SNMP-VACM-MIB (RFC 2575)

The SNMP-VACM-MIB (RFC 2575) contains objects that describe the view-based access control model for SNMP.

**Note**

To access the SNMP-VACM-MIB, you must create an SNMP v3 user with access to a view that includes all of the information from the Internet subtree. For example:

```
Router(config)# snmp-server view abcview internet included
Router(config)# snmp-server group abcgroup v3 noauth read abcview write abcview
                 notify abcview
Router(config)# snmp-server user abcuser abcgroup v3
```

SNMPV2-MIB (RFC 1907)

The SNMPv2-MIB contains objects SNMPv2 entities. The SNMPv2-MIB contains the following mandatory object groups:

- `SNMP group`—Collection of objects providing basic instrumentation and control of an SNMP entity.
- `System group`—Collection of objects common to all managed systems.
- `snmpSetGroup`—Collection of objects which allow several cooperating SNMPv2 entities, all acting in a manager role, to coordinate their use of the SNMPv2 set operation.
- `snmpBasicNotificationsGroup`—The two notifications are `coldStart` and `authenticationFailure` which an SNMPv2 entity is required to implement.

SONET-MIB (RFC 1595, 2558)

The SONET-MIB provides both configuration and performance monitoring objects for SONET interfaces.


Note

Release 12.2(18)SXF supports RFC 1595 version. Releases 12.2(33)SRA and older support RFC 2558 version

MIB Constraints

Table 3-39 lists the constraints that the Cisco 7600 Series router places on objects in the SONET-MIB. For detailed definitions of MIB objects, see the MIB.

Table 3-39 SONET-MIB Constraints

MIB Object	Notes
sonetPathCurrentTable	
<ul style="list-style-type: none"> sonetPathCurrentWidth 	Read-only.
sonetVTCurrentTable	Not implemented.
sonetVTIntervalTable	Not implemented.
sonetFarEndVTCurrentTable	Not implemented.
sonetFarEndVTIntervalTable	Not implemented.
Table	
<ul style="list-style-type: none"> csConfig csApsConfig csSection csLine csPath csStats cspConfig 	Not Implemented.

SOURCE-ROUTING-MIB (RFC 1525)

The SOURCE-ROUTING-MIB contains objects to configure and manage source routing and source routing transparent bridges.

TCP-MIB

The TCP-MIB (RFC 2012) contains objects to manage the Transmission Control Protocol (TCP) implementations on the router. There are no constraints. This MIB is included in the Cisco 7600 executable image, but its support is unverified.

TUNNEL-MIB

The TUNNEL-MIB contains objects to manage IP Tunnels. This MIB is based on RFC 4087 specification.

UDP-MIB

The UDP-MIB (RFC 2013) contains objects to manage the User Datagram Protocol (UDP) on the router. There are no constraints.

