NavisXtend
Provisioning Server
Enterprise MIB Definitions

Ascend Communications, Inc.

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Contents

About This Guide

This document lists the variables in the NavisXtend Provisioning Server MIB database. For instructions on how to determine the command you need to enter to find information about a given component on the network, refer to Chapter 4 of the *NavisXtend Provisioning Server User's Guide*.

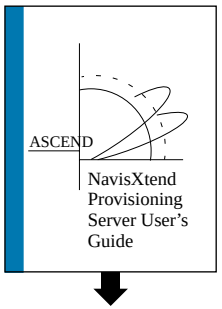
What You Need to Know

This guide assumes that you have a working knowledge of SNMP protocol, operations supported by the protocol, and MIB structure in general.

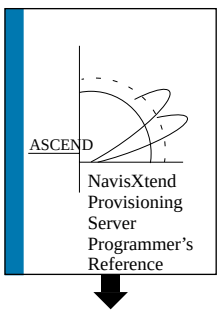
Documentation Reading Path

Before you read this guide, read the *Software Release Notice (SRN) for NavisXtend Provisioning Server* that accompanies the software. The SRN will alert you to any documentation updates or special conditions that you should be aware of.

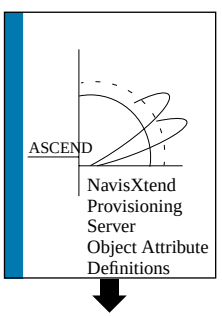
The complete document set for the NavisXtend Provisioning Server includes the following manuals:



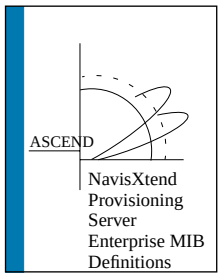
If you are using the NavisXtend Provisioning Server Application Toolkit for the first time, read the entire *NavisXtend Provisioning Server User's Guide*, which describes the interface, features, and typical applications for the NavisXtend Provisioning Server Application Toolkit. It explains, in step-by-step format, what is involved in developing a provisioning client and a provisioning script. It also describes how to use the SNMP MIB.



Once you are ready to begin developing a provisioning client, use this guide for detailed information on the NavisXtend Provisioning Server Application Programming Interface (API).



Use this guide for detailed information on the various object types supported by the NavisXtend Provisioning Server and their associated attributes.



If you are using the SNMP MIB to access the NavisXtend Provisioning Server, use this guide for detailed information on the MIB.

How to Use This Guide

The following table summarizes the information contained in this guide:

Read	To Learn About
Chapter 1	The variables supported by the NavisXtend Provisioning Server MIB.

What's New in This Guide

The following table lists the new product features in this release.

Provisioning Server 2.0 New Features	Description
Supports: CBX 500 Switch	Configure elements that are part of CBX 500 switches.
Supports: 8-port ATM E3 Card 8-port ATM DS3 Card 8-port ATM E1 Card 8-port ATM T1 Card 4-port ATM OC3 Card 1-port OC-12c Card	Configure elements of these cards for CBX 500 switches.
Supports: ATM IWU Card ATM CS Card 1-port ATM CS/E3 Card 12-port E1 Card	Configure elements of these cards for B-STDX 9000 switches.
Supports these LPorts and their associated attributes: ATM Direct Cell Trunk LPort ATM OPTimum Frame Trunk LPort ATM OPTimum Cell Trunk LPort SMDS OPTimum Trunk LPort Frame OPTimum Trunk LPort Direct Line Trunk LPort ATM NNI LPort	Configure elements of these LPorts.

Provisioning Server 2.0 New Features	Description
Supports these new objects and their associated attributes: **Network** Customer Network Connection Admission Control (applies to B-STDX and CBX LPorts only) Service Name SMDS Country Code SVC CUG SVC CUG Member Rule SVC CUG Member SVC Security Screen Traffic Descriptor Virtual Private Network **Switch** SVC Node Prefix **PPort** Automatic Protection Switching Performance Monitor Extended Super Frame Data Link Traffic Shaper **LPort** Assigned SVC Security Screen PMP Circuit Leaf Endpoint PMP Circuit Root Endpoint PMP Spvc Leaf Endpoint PMP Spvc Root Endpoint Soft PVC Endpoint SVC Security Screen Action Param SVC User Part SVC Address SVC Prefix SVC Config	Configure elements of these objects.
Supports these CBX 500 features: **Switch** Switch Billing configuration **LPort** Direct Versus Virtual UNI CLLM **Circuit** Multihop PVC management **Miscellaneous** Flow Control Processors	Configure elements related to these features.
Enterprise-specific MIB	Access the Provisioning Server using an SNMP MIB.

Related Documents

This section lists the related Ascend documentation that may be useful to reference.

- *Network Management Station Installation Guide* (Product code: #80014)
- *Network Configuration Guide for B-STDX/STDX* (Product code: #80017)
- SYBASE 11 SQL Server Upgrade Guide (Product code: #80040)
- Upgrading to Solaris 2.5.1 and HP OpenView 4.11 (Product code: #80045)
- *Network Configuration Guide for CBX* 500 (Product code: #80049)

Conventions

This guide uses the following conventions to emphasize certain information, such as user input, screen options and output, and menu selections. For example:

Convention	Indicates	Example
`Courier`	Program source code.	`unsigned long`
`Courier Bold`	User input on a separate line and screen or system output.	`eject cdrom` `Please wait...`
Helvetica	Structure names or other source code in body text.	CvObjectId structure
Boldface	Function name, CLI command, UNIX command, or user input in body text.	**CvCreateNetworkId** **cvaddmember** **select** Type **cd install** and ...
Italics	Variable used by a function or command. Book titles, new terms, and emphasized text.	*UserArg* argument *NavisXtend Provisioning Server User's Guide*
`<key name>`	A keyboard entry.	`<Return>`
Black border surrounding text	Notes and warnings.	See the following examples.

NOTE: Provides helpful suggestions or reference to materials not contained in this manual.

WARNING: Warns the reader to proceed carefully to avoid equipment damage or personal harm.

Terminology

The product name for the Provisioning Server product has changed from the NMS Provisioning Server to the *NavisXtend Provisioning Server.* The *NavisXtend Provisioning Server* is referred to in text using any of the following terms:

- NavisXtend Provisioning Server
- Provisioning Server
- server

The *NavisXtend Provisioning Server Application Toolkit* is referred to in text using any of the following terms:

- NavisXtend Provisioning Server Application Toolkit
- Application Toolkit
- toolkit

The *NavisXtend Provisioning client* is referred to in text using any of the following terms:

- NavisXtend Provisioning client
- Provisioning client
- client
- application

The product name for CascadeView has changed to *NavisCore*. The old and new product names are used interchangeably in the software and in the manuals.

1

Provisioning Server MIB Definitions

PS-MIB-REV2 DEFINITIONS ::= BEGIN

```
--
-- Cascade Provisioning Server MIB phase 2.
--
--
-- Date      Author             Description
------------------------------------------------------------------------
-- 12/05/96  A.Kenney           Initial draft
-- 03/27/97  H.Zhang            Alpha version for Nynex
--                              Add LPort/Circuit attrs
-- 03/31/97  R.Sirsikar         Move svcAtmConfigTable under
--                                 lportConfiguration
-- 05/02/97  R. Bhagavathula    Got rid of
--                                 circuitRootTrafficDescrParam4 &
--                                 circuitRootTrafficDescrParam5 from
--                                 CircuitRootEntry
-- 04/14/9   A.Kenney           Added VPN and Customer Tables.
-- 04/30/97  R.Sirsikar         clean-up
-- 05/03/97  H.Zhang            Move indexes out from smdsTables
--                                 to smdsbranch
-- 05/14/97  H.Zhang            Add svc security screen and CUG
--                                 related tables
-- 04/29/97  Anand J Raghavan   Added pportRedundancy attribute
--                                 in pportTable.
--                              Added a new table pportApsTable
--                                 under pport for APS attributes.
-- 05/07/97  R.Sirsikar         Added Card FCP (NRTS) attributes and
--                              Card Billing attributes
--                              Added Circuit Billing attributes
-- 05/08/97  R.Sirsikar         Added attributes to the
--                                 networkCACTable,
--                                 switchAtmBillingTable
--                                 card bulk stat attributes,
-- 05/12/97  Anand J Raghavan   Added TrafficDescriptor Table.
-- 05/14/97  A.T.G.Srinivasa Rao Added PFdl attributes to PPort Table
-- 05/20/97  Anand J Raghavan   Added soft PVC tables under ckt cfg
-- 05/21/97  R.Sirsikar         Added switchType and
--                                 switchSwRev
-- 05/30/97  Anand J Raghavan   Clean-up
-- 06/06/97  A.T.G.Srinivasa Rao Added ndc attributes to circuitRoot
--                                 Table
-- 06/11/97  R.Sirsikar         Added slotId and pportId to
--                                 lportAdminTable and to the
--                                 three circuitEndpointTable's.
-- 06/11/97  R.Sirsikar         Added endpoint1 and endpoint2 to
--                                 the circuitCrossConnectTable
-- 06/12/97  R.Sirsikar         Removed pportAtmTrafficShaperId,
--                                 pportAtmTrafficShaperPriority,
--                                 pportAtmSustainableCellRate,
-- 06/12/97  A.T.G.Srinivasa Rao Added some billing attributes to
--                                 lportBillingTable
--                                 pportAtmBurstTolerance and
--                                 pportMibDS3StatsIfIndex
-- 06/13/97  R.Sirsikar         add RowStatus and ModType
--                                 objects to lportFrTable,
--                                 lportAtmTable, lportSmdsTable,
--                                 lportAtmFcpTable,
--                                 lportAtmNtmTable,
--                                 lportAtmBillingTable,
--                                 svcAtmConfigTable
-- 06/25/97  L.Zhu              Added Virtual Uni LPort related
--                                 tables. Added
--                                 pportAtmTrafficShaperId back.
-- 07/14/97  H.Zhang            Took out Smds related tables, but
--                                 left smds attributes for lport around
-- 07/21/97  Anand J Raghavan   Add attributes to AdminTable for
--                                 common attributes of Optimum
--                                 trunks.
-- 08/1/97   L.Zhu                 rename svcAtmConfigTable to
--                                 lportAtmSvcConfigTable
-- 07/23/97  Anand J Raghavan   Modified Spvc, Spvc Root and Spvc
--                                 Leaf table attributes.
-- 07/28/97  Anand J Raghavan   Added new attribute to Spvc Root
--                                 table which has to be queried
--                                 upon to get the new leaf number
--                                 before adding a leaf to a root.
-- 08/04/97  Renu Rana             Changing the ServiceName table
--                                 entries & moving it under network.
-- 08/11/97  Anand J Raghavan   Adding 3 new tables -
--                                 frCircuitServiceNameEndpointTable,
```

```
--                                  interworkingCircuitServiceNameEndpoint
--                                  Table,
--                                  atmCircuitServiceNameEndpointTable,
--                                  for ServiceName support on circuits.
-- 08/28/97  R.Sirsikar          vpn, customer and trafficDescriptor
--                                  tables put under network node.
--                                  And ds1, ds3 & sonet pm threshold
--                                  tables put under pport node
--                                  Removed circuitTranslationTable.
--                                  Renamed "ds1" to "channel"
-- 10/16/97  J.Welch             Addes support for cardType12PortE1 and
--                                  changed cardExtClockRate to
--                                  cardExtClockSource.
-- 10/24/97  J.Welch             Removed pportAtmTrafficShaperId
```

IMPORTS

```
        enterprises, IpAddress, Integer32,
        OBJECT-TYPE, MODULE-IDENTITY
                FROM SNMPv2-SMI
        OBJECT-GROUP
                FROM SNMPv2-CONF
        DisplayString
                FROM SNMPv2-TC;
```

OID Registration Pointers

```
cascade         OBJECT IDENTIFIER ::= { enterprises 277 }
provserver      OBJECT IDENTIFIER ::= { cascade 9 } -- Customer
Provisioning Server

psMibRev2 MODULE-IDENTITY
     LAST-UPDATED  "9708062200Z"
     ORGANIZATION  "Ascend Communications Inc."
     CONTACT-INFO
                " Ascend Customer Support
                  Tel: 1 800 DIAL WAN "
     DESCRIPTION "SMIv2 comformant provisioning server 2.0 MIB"
        ::= {provserver 1}
```

Groups in Provisioning Server MIB

```
server                  OBJECT IDENTIFIER ::= { psMibRev2 1 }
network                 OBJECT IDENTIFIER ::= { psMibRev2 2 }
node                    OBJECT IDENTIFIER ::= { psMibRev2 3 }
card                    OBJECT IDENTIFIER ::= { psMibRev2 4 }
pport                   OBJECT IDENTIFIER ::= { psMibRev2 5 }
lport                   OBJECT IDENTIFIER ::= { psMibRev2 6 }
lportTranslation        OBJECT IDENTIFIER ::= { lport 1 }
lportConfiguration      OBJECT IDENTIFIER ::= { lport 2 }
circuit                 OBJECT IDENTIFIER ::= { psMibRev2 7 }
circuitConfiguration    OBJECT IDENTIFIER ::= { circuit 2 }
svc                     OBJECT IDENTIFIER ::= { psMibRev2 9 }
svcaddress              OBJECT IDENTIFIER ::= { svc 1 }
svcmgt                  OBJECT IDENTIFIER ::= { svc 2 }
channel                 OBJECT IDENTIFIER ::= { psMibRev2 13 }
psConformance           OBJECT IDENTIFIER ::= { psMibRev2 18 }
psGroups                OBJECT IDENTIFIER ::= { psConformance 1 }

RowStatus ::= INTEGER {
                        active(1),
                        notInService(2),
                        notReady(3),
                        createAndGo(4),
                        createAndWait(5),
                        destroy(6)
                      }
```

Command Error Table

```
-- cmdErrorTable - contains information about client request processing
-- failures.
--

cmdErrorTable OBJECT-TYPE
    SYNTAX SEQUENCE OF CmdErrorEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION"Table of information about client request processing
                failures.  Entries are made in this table when requests
                are returned with an error status.  An entry may be timed
                out and discarded after five minutes."
        ::= { server 1 }
cmdErrorEntry OBJECT-TYPE
    SYNTAX CmdErrorEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION "Request processing failure information."
    INDEX  {    cmdErrorOrigIpAddr,
                cmdErrorRequestId,
                cmdErrorPortId
           }
        ::= { cmdErrorTable 1 }
CmdErrorEntry ::=
  SEQUENCE {
```

```
    cmdErrorOrigIpAddr
       IpAddress,
    cmdErrorRequestId
       Integer32,
    cmdErrorPortId
       Integer32,
    cmdErrorErrorCode
       Integer32,
    cmdErrorErrorMsg
       DisplayString,
    cmdErrorErrorIndex
       Integer32,
    cmdErrorErrorStatus
       DisplayString,
    cmdErrorTimeStamp
       DisplayString,
    cmdErrorErrorOid
       DisplayString
}
cmdErrorOrigIpAddr OBJECT-TYPE
    SYNTAX IpAddress
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION "Ip address of originating client."
    ::= {cmdErrorEntry 1}
cmdErrorRequestId OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION "Client request ID associated with failure."
    ::= {cmdErrorEntry 2}
cmdErrorPortId OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION "Port number of the client associated with processing
                failure."
    ::= {cmdErrorEntry 3}
cmdErrorErrorCode OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION "Error code (defined in CvErrors.h)"
    ::= {cmdErrorEntry 4}
cmdErrorErrorMsg OBJECT-TYPE
    SYNTAX DisplayString
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION "Processing failure error message."
    ::= {cmdErrorEntry 5}
cmdErrorErrorIndex OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION "SNMP error index indicating the varbind in error."
    ::= {cmdErrorEntry 6}
cmdErrorErrorStatus OBJECT-TYPE
    SYNTAX DisplayString
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION "SNMP error message string explaining the nature of error
                associated with the varbind, indicated by
                cmdErrorErrorIndex."
    ::= {cmdErrorEntry 7}
cmdErrorTimeStamp OBJECT-TYPE
    SYNTAX DisplayString
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION "Time at which the failure has occured."
    ::= {cmdErrorEntry 8}
cmdErrorErrorOid OBJECT-TYPE
    SYNTAX DisplayString
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION "The oid or column  that has cause the failure. Empty
                if errors are not caused by a specific oid or column "
    ::= {cmdErrorEntry 9}
```

Provisioning Server Group

```
-- The Provisioning Server Group  - used to manage and monitor the
-- Provisioning Server process itself.
--

psStats OBJECT IDENTIFIER
        ::= { server 2 }

psStatsPid OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION "PS Process ID."
    ::= {psStats 1}

psStatsSoftwareRev OBJECT-TYPE
    SYNTAX DisplayString
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION "Software revision of PS."
    ::= {psStats 2}

psStatsTransactionsProcessed OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION "Total transactions processed by this PS."
    ::= {psStats  3}

psStatsReqsOutstanding OBJECT-TYPE
```

```
    SYNTAX Integer32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION "Outstanding client requests."
    ::= {psStats 4}

psStatsInternalLocks OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION "Number of current internal locks."
    ::= {psStats 5}

psStatsExternalLocks OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION "Number of current external locks."
    ::= {psStats 6}

-- The following simple objects are not-accessible and are primarily used
-- for table indexing.

networkIdIndex OBJECT-TYPE
    SYNTAX IpAddress
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION "Network ID (index)."
    ::= { network 1}

networkCUGNameIndex OBJECT-TYPE
    SYNTAX DisplayString
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION "Network CUG Name(index)."
    ::= { network 5}

networkCUGMemberRuleNameIndex OBJECT-TYPE
    SYNTAX DisplayString
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION "Network CUG member rule name(index)."
    ::= { network 7}

networkSvcSecurityScreenNameIndex OBJECT-TYPE
    SYNTAX DisplayString
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION "Network Svc security screen name(index)."
    ::= { network 11}

networkServiceNameIndex OBJECT-TYPE
    SYNTAX DisplayString
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION "Network Service Name (index)."
    ::= { network 16 }

switchIdIndex OBJECT-TYPE
    SYNTAX IpAddress
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION "Switch ID (index)."
    ::= { lportTranslation 1}

slotIdIndex OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION "Card slot ID (index)."
    ::= { lportTranslation 2}

pportIdIndex OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION "PPort ID (index)."
    ::= { lportTranslation 3}

lportIdIndex OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION "LportId (index)"
    ::= { lportTranslation 6}

ds1ChannelIdIndex OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION "DS1 Channel ID (index)."
    ::= { lportTranslation 7}

dlciIdIndex OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION "Lport DLCI ID (index)"
    ::= { lportTranslation 8}

lportIfIndex OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION "Interface number ID (index)"
    ::= { lportTranslation 9}

vpiStartIndex OBJECT-TYPE
```

```
    SYNTAX Integer32
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION "vpiStart number. It is essentially a starting VPI of a
                 range of VPIs to be used for a given virtual UNI lport.
                 For every virtual UNI lport that gets created on the
                 same pport, the VPI start number that should be
                 specified has to be unique and non-zero."
    ::= { lportTranslation 5}

circuitConfigurationIndex OBJECT IDENTIFIER ::= {circuitConfiguration 1}

circuitIndex OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION "Circuit ID (index)"
    ::= { circuitConfigurationIndex 1}

vpiIndex OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION "Circuit VPI (index)"
    ::= { circuitConfigurationIndex 2}

vciIndex OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION "Circuit VCI (index)"
    ::= { circuitConfigurationIndex 3}
```

LPortVpi/LPortVci Index Translation Table

```
--  lportVpi/lportVci Index Translation Table - used to map between VPI/
--  VCI lport identifiers and the IfIndex value.
--

vpiVciIndexTransTable OBJECT-TYPE
    SYNTAX SEQUENCE OF VpiVciIndexTransEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION  "A list of Atm index translation table entries."
    ::= { lportTranslation 10 }

vpiVciIndexTransEntry OBJECT-TYPE
    SYNTAX VpiVciIndexTransEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
           "A group of attributes used to map ATM technology specific IDs
            to IfIndex."
    INDEX  { switchIdIndex,
                    slotIdIndex,
                    pportIdIndex,
                    vpiIndex,
                    vciIndex }
    ::= { vpiVciIndexTransTable 1 }

VpiVciIndexTransEntry ::=
  SEQUENCE {
    vpiVciIndexTransIfIndex
        Integer32,
    vpiVciIndexTransRowStatus
        RowStatus,
    vpiVciIndexModifyType
        INTEGER
}

vpiVciIndexTransIfIndex OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS read-only
        STATUS current
        DESCRIPTION
         "The ifIndex value of the corresponding entry in the lportTable."
        ::= {vpiVciIndexTransEntry 1}

vpiVciIndexTransRowStatus OBJECT-TYPE
        SYNTAX RowStatus
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
        "Row status active(1) - Row is currently usable.
         notInService(2) - Row has been created and initialized but not
         made active by client.
         notReady(3) - Row has been created but contains holes, waiting
         for client to finish.
         createAndGo(4) - Not supported.
         createAndWait(5) - Create a new row.
         destroy(6) - Delete an existing row."
        ::= {vpiVciIndexTransEntry 2}

vpiVciIndexModifyType OBJECT-TYPE
        SYNTAX INTEGER { normal(1), dbOnly(4), dbOnlySetOutOfSync(5) }
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
        "By default, writes are stored to the database and the switch.
        Set this to dbOnly to send writes only to the database.
        dbOnlySetOutOfSync sends writes to the database and sets the
        Out of Sync flag in the database.
        This value is re-set to normal after every transaction."
        DEFVAL {normal}
    ::= { vpiVciIndexTransEntry 3 }
```

LPortId Index Translation Table

```
--  LportId Index Translation Table - used to map between the lportId
--  and the corresponding IfIndex value.
--

lportIdIndexTransTable OBJECT-TYPE
    SYNTAX SEQUENCE OF LportIdIndexTransEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION  "A list of index translation table entries."
    ::= { lportTranslation 11}

lportIdIndexTransEntry OBJECT-TYPE
    SYNTAX LportIdIndexTransEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
    "A group of attributes used to map LportIds to the corresponding
     IfIndex value."
    INDEX  { switchIdIndex,
             slotIdIndex,
             pportIdIndex,
             lportIdIndex }
    ::= { lportIdIndexTransTable 1 }

LportIdIndexTransEntry ::=
  SEQUENCE {
    lportIdIndexTransIfIndex
        Integer32,
    lportIdIndexTransRowStatus
        RowStatus,
    lportIdIndexModifyType
        INTEGER
}

lportIdIndexTransIfIndex OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS      read-only
        STATUS current
        DESCRIPTION
        "The ifIndex value of the corresponding entry in the lportTable."
        ::= {lportIdIndexTransEntry 1}

lportIdIndexTransRowStatus OBJECT-TYPE
        SYNTAX  RowStatus
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
        "Row status active(1) - Row is currently usable.
         notInService(2) - Row has been created and initialized but not
         made active by client.
         notReady(3) - Row has been created but contains holes, waiting
         for client to finish.
         createAndGo(4) - Not supported.
         createAndWait(5) - Client has requested new row, PS is in
         process of building row.
         destroy(6)  - Row has been destroyed by client."

        ::= {lportIdIndexTransEntry 2}

lportIdIndexModifyType OBJECT-TYPE
        SYNTAX  INTEGER{ normal(1), dbOnly(4), dbOnlySetOutOfSync(5) }
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
        "By default, writes are stored to the database and the switch.
        Set this to dbOnly to send writes only to the database.
        dbOnlySetOutOfSync sends writes to the database and sets the
        Out of Sync flag in the database.
        This value is re-set to normal after every transaction."
        DEFVAL {normal}
    ::= { lportIdIndexTransEntry 3 }
```

Channelized LPortVpi/LPortVci Index Translation Table

```
--  Channelized lportVpi/lportVci Index Translation Table - used to map
--  between VPI/VCI lport identifiers on DS1 channels and the IfIndex
--  value.
--

vpiVciChannelIndexTransTable OBJECT-TYPE
    SYNTAX SEQUENCE OF VpiVciChannelIndexTransEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION  "A list of Atm index translation table entries."
    ::= { lportTranslation  12}

vpiVciChannelIndexTransEntry OBJECT-TYPE
    SYNTAX VpiVciChannelIndexTransEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
           "A group of attributes used to map ATM technology specific IDs
            to IfIndex."
    INDEX  { switchIdIndex,
             slotIdIndex,
             pportIdIndex,
             ds1ChannelIdIndex,
             vpiIndex,
             vciIndex }
    ::= { vpiVciChannelIndexTransTable 1 }

VpiVciChannelIndexTransEntry ::=
  SEQUENCE {
    vpiVciChannelIndexIfIndex
        Integer32,
    vpiVciChannelIndexRowStatus
```

```
        RowStatus,
    vpiVciChannelIndexModifyType
        INTEGER
}

vpiVciChannelIndexIfIndex OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS      read-only
        STATUS current
        DESCRIPTION
        "The ifIndex value of the corresponding entry in the lportTable."
        ::= {vpiVciChannelIndexTransEntry 1}

vpiVciChannelIndexRowStatus OBJECT-TYPE
        SYNTAX          RowStatus
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
        "Row status active(1) - Row is currently usable.
         notInService(2) - Row has been created and initialized but not
         made active by client.
         notReady(3) - Row has been created but contains 'holes', waiting
         for client to finish.
         createAndGo(4) - Not supported.
         createAndWait(5) - Client has requested new row, PS is in
         process of building row.
         destroy(6)  - Row has been destroyed by client."
        ::= {vpiVciChannelIndexTransEntry 2}

vpiVciChannelIndexModifyType OBJECT-TYPE
        SYNTAX  INTEGER { normal(1), dbOnly(4), dbOnlySetOutOfSync(5) }
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
        "By default, writes are stored to the database and the switch.
        Set this to dbOnly to send writes only to the database.
        dbOnlySetOutOfSync sends writes to the database and sets the
        Out of Sync flag in the database.
        This value is re-set to normal after every transaction."
        DEFVAL {normal}
    ::= { vpiVciChannelIndexTransEntry 3 }
```

Channelized LPortId Index Translation Table

```
-- Channelized LportId Index Translation Table - used to map between the
-- lportId for lports on DS1 channels and the corresponding IfIndex value.
--

lportIdChannelIndexTransTable OBJECT-TYPE
    SYNTAX SEQUENCE OF LportIdChannelIndexTransEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION  "A list of index translation table entries."
    ::= { lportTranslation 13 }

lportIdChannelIndexTransEntry OBJECT-TYPE
    SYNTAX LportIdChannelIndexTransEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
    "A group of attributes used to map LportIds to the corresponding
     IfIndex value."
    INDEX  { switchIdIndex,
             slotIdIndex,
             pportIdIndex,
             ds1ChannelIdIndex,
             lportIdIndex }
    ::= { lportIdChannelIndexTransTable 1 }

LportIdChannelIndexTransEntry ::=
  SEQUENCE {
    lportIdChannelIndexIfIndex
        Integer32,
    lportIdChannelIndexRowStatus
        RowStatus,
    lportIdChannelIndexModifyType
        INTEGER
}

lportIdChannelIndexIfIndex OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS read-only
        STATUS current
        DESCRIPTION
        "The ifIndex value of the corresponding entry in the lportTable."
        ::= {lportIdChannelIndexTransEntry 1}

lportIdChannelIndexRowStatus OBJECT-TYPE
        SYNTAX RowStatus
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
        "Row status active(1) - Row is currently usable.
        notInService(2) - Row has been created and initialized but not
        made active by client.
         notReady(3) - Row has been created but contains holes, waiting
         for client to finish.
         createAndGo(4) - Not supported.
         createAndWait(5) - Create new row.
         destroy(6) - Delete an existing row."

        ::= {lportIdChannelIndexTransEntry 2}

lportIdChannelIndexModifyType OBJECT-TYPE
        SYNTAX  INTEGER { normal(1), dbOnly(4), dbOnlySetOutOfSync(5) }
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
```

```
        "By default, writes are stored to the database and the switch.
        Set this to dbOnly to send writes only to the database.
        dbOnlySetOutOfSync sends
        writes to the database and sets the Out of Sync flag in the
        database.
        This value is re-set to normal after every transaction."
        DEFVAL {normal}
    ::= { lportIdChannelIndexTransEntry 3 }
```

LPortDlci Index Translation Table

```
--  LportDlci Index Translation Table - used to map between the lportDlci
--  and the corresponding IfIndex value.
--

dlciIndexTransTable OBJECT-TYPE
    SYNTAX SEQUENCE OF DlciIndexTransEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION  "A list of index translation table entries containing
    DLCI mappings."
    ::= { lportTranslation 14 }

dlciIndexTransEntry OBJECT-TYPE
    SYNTAX DlciIndexTransEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
    "A group of attributes used to map LportDlcis to the corresponding
    IfIndex value."
    INDEX  { switchIdIndex,
             slotIdIndex,
             pportIdIndex,
             dlciIdIndex }
    ::= { dlciIndexTransTable 1 }

DlciIndexTransEntry ::=
  SEQUENCE {
    dlciIndexIfIndex
        Integer32,
    dlciIndexRowStatus
       RowStatus,
    dlciIndexModifyType
       INTEGER
}

dlciIndexIfIndex OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS      read-only
        STATUS current
        DESCRIPTION
        "The ifIndex value of the corresponding entry in the lportTable."
        ::= {dlciIndexTransEntry 1}

dlciIndexRowStatus OBJECT-TYPE
        SYNTAX  RowStatus
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
        "Row status active(1) - Row is currently usable.
         notInService(2) - Row has been created and initialized but not
         made active by client.
         notReady(3) - Row has been created but contains 'holes', waiting
         for client to finish.
         createAndGo(4) - Not supported.
         createAndWait(5) - Create new row.
         destroy(6) - Delete an existing row."

        ::= {dlciIndexTransEntry 2}

dlciIndexModifyType OBJECT-TYPE
        SYNTAX  INTEGER { normal(1), dbOnly(4), dbOnlySetOutOfSync(5) }
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
        "By default, writes are stored to the database and the switch.
        Set this to dbOnly to send writes only to the database.
        dbOnlySetOutOfSync sends writes to the database and sets the
        Out of Sync flag in the database.
        This value is re-set to normal after every transaction."
        DEFVAL {normal}
    ::= { dlciIndexTransEntry 3 }
```

LPortDlci channelized Index Translation Table

```
-- LportDlci channelized Index Translation Table - used to map between
-- the channelized lportDlci and the
-- corresponding IfIndex value.
--

dlciChannelIndexTransTable OBJECT-TYPE
    SYNTAX SEQUENCE OF DlciChannelIndexTransEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION  "A list of index translation table entries containing
    DLCI mappings."
    ::= { lportTranslation 15 }

dlciChannelIndexTransEntry OBJECT-TYPE
    SYNTAX DlciChannelIndexTransEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
    "A group of attributes used to map LportDlci's to the corresponding
    IfIndex value."
    INDEX  { switchIdIndex,
             slotIdIndex,
             pportIdIndex,
```

```
            ds1ChannelIdIndex,
            dlciIdIndex }
    ::= { dlciChannelIndexTransTable 1 }

DlciChannelIndexTransEntry ::=
  SEQUENCE {
     dlciChannelIndexIfIndex
        Integer32,
     dlciChannelIndexRowStatus
        RowStatus,
     dlciChannelIndexModifyType
       INTEGER
    }

dlciChannelIndexIfIndex OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS read-only
        STATUS current
        DESCRIPTION
        "The ifIndex value of the corresponding entry in the lportTable."
        ::= {dlciChannelIndexTransEntry 1}

dlciChannelIndexRowStatus OBJECT-TYPE
        SYNTAX          RowStatus
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
        "Row status active(1) - Row is currently usable.
         notInService(2) - Row has been created and initialized but not
         made active by client.
         notReady(3) - Row has been created but contains holes, waiting
         for client to finish.
         createAndGo(4) - Not supported.
         createAndWait(5) - Create new row.
         destroy(6) - Delete an existing row."
        ::= {dlciChannelIndexTransEntry 2}

dlciChannelIndexModifyType OBJECT-TYPE
        SYNTAX  INTEGER { normal(1), dbOnly(4), dbOnlySetOutOfSync(5) }
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
        "By default, writes are stored to the database and the switch.
        Set this to dbOnly to send writes only to the database.
        dbOnlySetOutOfSync sends writes to the database and sets the
        Out of Sync flag in the database.
        This value is re-set to normal after every transaction."
        DEFVAL {normal}
    ::= { dlciChannelIndexTransEntry 3 }
```

lportVpiStart Index Translation Table

```
--  lportVpiStart Index Translation Table - used to map between vpiStart
--  number and the IfIndex value. This should be used only for the
--  Virtual UNI lport type creation on the CBX 500 switch. The vpiStart
--  number is essentially a  starting VPI of a range of VPIs to be used
--  for that Virtual UNI lport. For every virtual UNI lport that gets
--  created on the same pport, the VPI start number that should be
--  specified has to be unique and non-zero
--

vpiStartIndexTransTable OBJECT-TYPE
    SYNTAX SEQUENCE OF VpiStartIndexTransEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION  "A list of Atm index translation table entries."
    ::= { lportTranslation 16 }

vpiStartIndexTransEntry OBJECT-TYPE
    SYNTAX VpiStartIndexTransEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
           "A group of attributes used to map ATM technology specific IDs
            to IfIndex."
    INDEX  { switchIdIndex,
             slotIdIndex,
             pportIdIndex,
             vpiStartIndex }
    ::= { vpiStartIndexTransTable 1 }

VpiStartIndexTransEntry ::=
  SEQUENCE {
    vpiStartIndexTransIfIndex
        Integer32,
    vpiStartIndexTransRowStatus
        RowStatus,
    vpiStartIndexModifyType
        INTEGER
}

vpiStartIndexTransIfIndex OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS      read-only
        STATUS current
        DESCRIPTION
        "The ifIndex value of the corresponding entry in the lportTable."
        ::= {vpiStartIndexTransEntry 1}

vpiStartIndexTransRowStatus OBJECT-TYPE
        SYNTAX  RowStatus
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
        "Row status active(1) - Row is currently usable.
         notInService(2) - Row has been created and initialized but not
         made active by client.
         notReady(3) - Row has been created but contains 'holes', waiting
```

```
         for client to finish
         createAndGo(4) - Not supported.
         createAndWait(5) - Create a new row.
         destroy(6) - Delete an existing row."
        ::= {vpiStartIndexTransEntry 2}

vpiStartIndexModifyType OBJECT-TYPE
        SYNTAX INTEGER { normal(1), dbOnly(4), dbOnlySetOutOfSync(5) }
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
        "By default, writes are stored to the database and the switch.
        Set this to dbOnly to send writes only to the database.
        dbOnlySetOutOfSync sends
        writes to the database and sets the Out of Sync flag in the
        database.
        This value is re-set to normal after every transaction."
        DEFVAL {normal}
    ::= { vpiStartIndexTransEntry 3 }
```

Network Table

```
-- Network table - contains information associated with the managed
-- sub-network.
--

networkTable OBJECT-TYPE
    SYNTAX SEQUENCE OF NetworkEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION "Table of information about the sub-network"
        ::= { network 2}

networkEntry OBJECT-TYPE
    SYNTAX NetworkEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION "Information about the sub-network"
    INDEX  { networkNetId }
        ::= { networkTable 1 }

NetworkEntry ::=
  SEQUENCE {
    networkNetId
        IpAddress
  }

networkNetId OBJECT-TYPE
    SYNTAX IpAddress
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "The IP address of the network"
    ::= {networkEntry 1}
```

Service Name Table

```
-- Service name table - contains instances of service name-binding
--  objects associated with lports.
--

networkServiceNameTable OBJECT-TYPE
    SYNTAX SEQUENCE OF NetworkServiceNameEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
           "A list of serviceName entries."
    ::= {network 12}

networkServiceNameEntry OBJECT-TYPE
    SYNTAX NetworkServiceNameEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
           "A group of attributes associated with serviceNames."
    INDEX  { networkIdIndex, networkServiceNameIndex }
    ::= { networkServiceNameTable 1 }

NetworkServiceNameEntry ::=
  SEQUENCE {

        networkServiceNameName
            DisplayString,
        networkServiceNameId
            Integer32,
        networkServiceNameActiveBinding
            INTEGER,
        networkServiceNamePrimaryLPort
            OBJECT IDENTIFIER,
        networkServiceNameBackupLPort
            OBJECT IDENTIFIER,
        networkServiceNameNotes
            DisplayString,
        networkServiceNameRowStatus
            RowStatus,
        networkServiceNameModifyType
            INTEGER
}

networkServiceNameName  OBJECT-TYPE
    SYNTAX DisplayString
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION "Name of the servicename binding provided by the user for
    identification purposes"
    ::= { networkServiceNameEntry  1}

networkServiceNameId  OBJECT-TYPE
    SYNTAX Integer32
```

```
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION "This is a unique identifier by which the switches
    identify this service name."
    ::= { networkServiceNameEntry  2}

networkServiceNameActiveBinding OBJECT-TYPE
    SYNTAX INTEGER {
           primary (1),
           backup (2)
           }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "This attribute specifies the binding status of the
    servicename"
    ::= { networkServiceNameEntry 3}

networkServiceNamePrimaryLPort OBJECT-TYPE
    SYNTAX OBJECT IDENTIFIER
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "ObjectId of the primaryLPort to which this
    servicename is bound"
    ::= { networkServiceNameEntry  4}

networkServiceNameBackupLPort  OBJECT-TYPE
    SYNTAX OBJECT IDENTIFIER
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "ObjectId of the LPort which backs up this
    service name binding"
    ::= { networkServiceNameEntry  5}

networkServiceNameNotes  OBJECT-TYPE
    SYNTAX DisplayString
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION ""
    ::= { networkServiceNameEntry  6}

networkServiceNameRowStatus  OBJECT-TYPE
    SYNTAX RowStatus
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION ""
    ::= { networkServiceNameEntry  7}

networkServiceNameModifyType OBJECT-TYPE
        SYNTAX  INTEGER {
                normal(1),
                dbOnly(4),
                dbOnlySetOutOfSync(5)
                }
        MAX-ACCESS  read-write
        STATUS  current
        DESCRIPTION
        "By default, writes are stored to the database and the switch.
        Set this to dbOnly to send writes only to the database.
        dbOnlySetOutOfSync sends writes to the database and sets the
        Out of Sync flag in the database.
        This value is re-set to normal after every transaction."
        DEFVAL {normal}
    ::= { networkServiceNameEntry 8 }
```

VPN Table

```
-- VPN table - contains instances of Virtual Private Networks
-- associated with particular networks.
--

vpnTable OBJECT-TYPE
    SYNTAX SEQUENCE OF VpnEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
           "A list of vpn entries."
    ::= {network 13}

vpnEntry OBJECT-TYPE
    SYNTAX VpnEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
           "A group of attributes associated with vpns."
    INDEX  { networkIdIndex,
             vpnName }
    ::= { vpnTable 1 }

VpnEntry ::=
  SEQUENCE {
        vpnName
            DisplayString,
        vpnNumber
            Integer32,
        vpnComments
            DisplayString,
        vpnRowStatus
            RowStatus,
        vpnModifyType
            INTEGER
}

vpnName  OBJECT-TYPE
    SYNTAX DisplayString
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION "Customer assigned name of this VPN."
    ::= { vpnEntry  1}
```

```
vpnNumber  OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION "VPN number assigned to this VPN."
    ::= { vpnEntry  2}

vpnComments  OBJECT-TYPE
    SYNTAX DisplayString
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "User comments."
    ::= { vpnEntry  3}

vpnRowStatus  OBJECT-TYPE
    SYNTAX RowStatus
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "
          Row status active(1)- Row is currently usable.
          notInService(2- Row has been created and initialized but not
          made active by client
          notReady(3)- Row has been created but contains 'holes', waiting
          for client to finish
          createAndGo(4)- Not supported.
          createAndWait(5)- Create new row.
          destroy(6)- Delete an existing row."
    ::= { vpnEntry  4}

vpnModifyType OBJECT-TYPE
        SYNTAX  INTEGER { normal(1), dbOnly(4), dbOnlySetOutOfSync(5) }
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
        "By default, writes are stored to the database and the switch.
        Set this to dbOnly to send writes only to the database.
        dbOnlySetOutOfSync sends writes to the database and sets the
        Out of Sync flag in the database.
        This value is re-set to normal after every transaction."
        DEFVAL {normal}
    ::= { vpnEntry 5 }
```

Customer Table

```
-- Customer table - contains instances of VPN customer information.
--

customerTable OBJECT-TYPE
    SYNTAX SEQUENCE OF CustomerEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
           "A list of customer entries."
    ::= {network 14}

customerEntry OBJECT-TYPE
    SYNTAX CustomerEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
           "A group of attributes associated with customers."
    INDEX  { networkIdIndex,
             customerName }
    ::= { customerTable 1 }

CustomerEntry ::=
  SEQUENCE {
        customerName
            DisplayString,
        customerId
            Integer32,
        customerContactInfo
            DisplayString,
        customerPhoneNumber
            DisplayString,
        customerComments
            DisplayString,
        customerVpnName
            DisplayString,
        customerRowStatus
            RowStatus,
        customerModifyType
            INTEGER
}

customerName  OBJECT-TYPE
    SYNTAX DisplayString
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION "Customer assigned name of this customer."
    ::= { customerEntry  1}

customerId  OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "Customer assigned ID. The attribute cannot be modified
    after creation."
    ::= { customerEntry  2}

customerContactInfo  OBJECT-TYPE
    SYNTAX DisplayString
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "Customer contact information."
    ::= { customerEntry  3}
```

```
customerPhoneNumber  OBJECT-TYPE
    SYNTAX DisplayString
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "Customer phone number."
    ::= { customerEntry  4}

customerComments  OBJECT-TYPE
    SYNTAX DisplayString
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "Customer comments."
    ::= { customerEntry  5}

customerVpnName  OBJECT-TYPE
    SYNTAX DisplayString
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "Name of VPN associated with this customer."
    ::= { customerEntry  6}

customerRowStatus  OBJECT-TYPE
    SYNTAX RowStatus
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
          "Row status active(1) - Row is currently usable.
           notInService(2) - Row has been created and initialized but
           not made active by client
           notReady(3) - Row has been created but contains holes, waiting
           for client to finish.
           createAndGo(4) - Not supported.
           createAndWait(5) - Create new row.
           destroy(6) - Delete an existing row."
    ::= { customerEntry  7}

customerModifyType OBJECT-TYPE
        SYNTAX  INTEGER { normal(1), dbOnly(4), dbOnlySetOutOfSync(5) }
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
        "By default, writes are stored to the database and the switch.
        Set this to dbOnly to send writes only to the database.
        dbOnlySetOutOfSync sends writes to the database and sets the
        Out of Sync flag in the database.
        This value is re-set to normal after every transaction."
        DEFVAL {normal}
    ::= { customerEntry 8 }
```

DS1 Channel Table

```
-- DS1 Channel table - contains instances of channel objects associated
with DS3 channelized pports.
--

ds1ChannelTable OBJECT-TYPE
    SYNTAX SEQUENCE OF Ds1ChannelEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
           "A list of DS1Channel entries."
    ::= { channel 1}

ds1ChannelEntry OBJECT-TYPE
    SYNTAX Ds1ChannelEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
           "A group of attributes associated with DS1 Channels."
    INDEX  { switchIdIndex,
             slotIdIndex,
             pportIdIndex,
             ds1ChannelIdIndex }
    ::= { ds1ChannelTable 1 }

Ds1ChannelEntry ::=
  SEQUENCE {
    ds1ChannelChannelType
        Integer32,
    ds1ChannelLinkFraming
        INTEGER,
    ds1ChannelZeroCoding
        INTEGER,
    ds1ChannelClockSource
        INTEGER,
    ds1ChannelExtClockBackup
        INTEGER,
    ds1ChannelDs1LoopbackCodeType
        INTEGER,
    ds1ChannelAdminStatus
       INTEGER,
    ds1ChannelAllocatedDs0ChannelCount
       Integer32,
    ds1ChannelAllocatedDs0Channels
       Integer32,
    ds1ChannelDs0ChannelsInUse
       Integer32,
    ds1ChannelRowStatus
       RowStatus,
    ds1ChannelModifyType
       INTEGER
}

ds1ChannelChannelType  OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "Channel type."
```

```
    ::= { ds1ChannelEntry  1}

ds1ChannelLinkFraming  OBJECT-TYPE
    SYNTAX INTEGER {
        d4(1),
        esfCcitt(2)
       }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "DS1 line type."
    ::= { ds1ChannelEntry  2}

ds1ChannelZeroCoding  OBJECT-TYPE
    SYNTAX INTEGER {
        nx64(1),
        nx56(2)
    }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "DS1 zero coding."
    ::= { ds1ChannelEntry  3}

ds1ChannelClockSource  OBJECT-TYPE
    SYNTAX INTEGER {
       internal(1),
       external(2),
       loopTimed(3)
    }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "Clock source."
    ::= { ds1ChannelEntry  4}

ds1ChannelExtClockBackup  OBJECT-TYPE
    SYNTAX INTEGER {
        loopTimed(1),
        internal(2)
       }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION ""
    ::= { ds1ChannelEntry  5}

ds1ChannelDs1LoopbackCodeType  OBJECT-TYPE
    SYNTAX INTEGER {
            csu(1),
            nni(2)
         }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "Loop back code type."
    ::= { ds1ChannelEntry  6}

ds1ChannelAdminStatus  OBJECT-TYPE
    SYNTAX INTEGER {
          up(1),
         down(2),
         testing(3)
       }
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION "Administrative status."
    ::= { ds1ChannelEntry  7}

ds1ChannelAllocatedDs0ChannelCount  OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "Count of allocated ds1 Channels."
    ::= { ds1ChannelEntry  8}

ds1ChannelAllocatedDs0Channels  OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "Bitmask indicating allocated ds1 Channels."
    ::= { ds1ChannelEntry  9}

ds1ChannelDs0ChannelsInUse  OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "Bitmask indicating which ds1 Channels are in use."
    ::= { ds1ChannelEntry  10}

ds1ChannelRowStatus OBJECT-TYPE
        SYNTAX RowStatus
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
        "Row status active(1) - Row is currently usable.
         notInService(2) - Row has been created and initialized but not
         made active by client.
         notReady(3) - Not supported.
         createAndGo(4) - Not supported.
         createAndWait(5) - Not supported..
         destroy(6) - Not supported."

        ::= { ds1ChannelEntry 12 }

ds1ChannelModifyType OBJECT-TYPE
        SYNTAX INTEGER { normal(1), dbOnly(4), dbOnlySetOutOfSync(5) }
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
        "By default, writes are stored to the database and the switch.
        Set this to dbOnly to send writes only to the database.
        dbOnlySetOutOfSync sends writes to the database and sets the
```

```
        Out of Sync flag in the database.
        This value is re-set to normal after every transaction."
        DEFVAL {normal}
    ::= { ds1ChannelEntry 13 }
```

LPortAdminTable

```
--  LPortAdminTable - Contains instances of Lport objects which consist
--  of attributes common to all Lport types.
--

lportAdminTable OBJECT-TYPE
    SYNTAX SEQUENCE OF LportAdminEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION  "List of logical port common attribute entries."
    ::= { lportConfiguration 1 }

lportAdminEntry OBJECT-TYPE
    SYNTAX LportAdminEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
           "Logical Port Configuration Entry"
    INDEX  { switchIdIndex, lportIfIndex }
    ::= { lportAdminTable 1 }

LportAdminEntry ::=
  SEQUENCE {
    lportAdminIfIndex
        Integer32,
    lportAdminLportName
        DisplayString,
    lportAdminServiceType
        INTEGER,
    lportAdminVpnName
        DisplayString,
    lportAdminCustomerName
        DisplayString,
    lportAdminLoopBackStatus
        INTEGER,
    lportAdminCDV
        Integer32,
    lportAdminNetOverflow
        INTEGER,
    lportAdminIsTemplate
        Integer32,
    lportAdminCanBackupServiceNames
        INTEGER,
    lportAdminClosedLoop
        INTEGER,
    lportAdminMildThreshold
        Integer32,
    lportAdminCheckInterval
        Integer32,
    lportAdminClearDelay
        Integer32,
    lportAdminBandwidth
        Integer32,
    lportAdminCongestionThreshold
        Integer32,
    lportAdminErrorPerMinThreshold
        Integer32,
    lportAdminBitStuffing
        INTEGER,
    lportAdminAdminStatus
        INTEGER,
    lportAdminCrcChecking
        INTEGER,
    lportAdminBilling
        INTEGER,
    lportAdminFractionalDs0s
        Integer32,
    lportAdminRowStatus
        RowStatus,
    lportAdminModifyType
        INTEGER,
    lportAdminTrafficShaperId
        Integer32,
    lportAdminTSPriority
        Integer32,
    lportAdminTSSustCellRate
        Integer32,
    lportAdminTSPeakCellRate
        Integer32,
    lportAdminTSBurstTolerance
        Integer32,
    lportAdminSlotId
        Integer32,
    lportAdminPPortId
        Integer32,
    lportAdminSmdsPduViolThresh
        Integer32,
    lportAdminSmdsPduViolTcaFlag
        INTEGER,
    lportAdminFrBadPvcFactor
        Integer32,
    lportAdminFrAmberPm
        Integer32,
    lportAdminFrAmberPs
        Integer32,
    lportAdminFrSevereThreshold
        Integer32,
    lportAdminFrAbsThreshold
        Integer32
}

lportAdminIfIndex OBJECT-TYPE
```

```
        SYNTAX Integer32
        MAX-ACCESS read-only
        STATUS current
        DESCRIPTION
                "The ifIndex value of the  corresponding ifEntry."
        ::= { lportAdminEntry 1 }

lportAdminLportName OBJECT-TYPE
    SYNTAX DisplayString
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "LPort Name.This attribute is mandatory for lport
    creation and cannot be modified."
   ::= { lportAdminEntry 2}

lportAdminServiceType OBJECT-TYPE
    SYNTAX INTEGER {
        frameRelay(1),
        smds(2),
        atm(3),
        other(4) -- includes PPP and encapsulationFrad
       }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "Logical Port Service type.This attribute is mandatory
    for lport creation and cannot be modified."
    ::= { lportAdminEntry 3}

lportAdminVpnName OBJECT-TYPE
        SYNTAX  DisplayString
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
                "VPN name. "
        ::= { lportAdminEntry 4 }

lportAdminCustomerName OBJECT-TYPE
        SYNTAX  DisplayString
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
        "The Customer that owns this lport. For Virtual Private
        Networking Support. "
        ::= { lportAdminEntry 5 }

lportAdminLoopBackStatus OBJECT-TYPE
        SYNTAX  INTEGER {
            normal      (1),
            switchLpbk  (2),
            farEndLpbk  (3),
            t1nods0Lpbk (4)
        }
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
        "Indicates the Loopback Status of the Lport."
        ::= { lportAdminEntry 6 }

lportAdminCDV OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
        "The Cell Delay Variation of this port measured in microseconds."
        ::= { lportAdminEntry 7 }

lportAdminNetOverflow OBJECT-TYPE
        SYNTAX  INTEGER {
                    restricted (1),
                    public (2)
                }
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION "Indicates how circuits belonging to private lports
                are handled, when the resources of the network have become
                exhausted. If set to public, the resources of the
                public network can be used during overflow conditions."
        ::= { lportAdminEntry 8 }

lportAdminIsTemplate OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
                "."
        ::= { lportAdminEntry 9 }

lportAdminCanBackupServiceNames OBJECT-TYPE
        SYNTAX  INTEGER {
          no(1),
          yes(2)
        }
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
        "Specifies whether or not this logical port can be  backed up to a
         service name binding."
        ::= { lportAdminEntry 10}

lportAdminClosedLoop OBJECT-TYPE
        SYNTAX INTEGER {
           off(1),
           on(2)
        }
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
        "Close loop congestion control switch on this logical port. If
```

```
        it is turned on (1) the function is enabled, otherwise (0) the
        function is disabled. By default, it is set to OFF(0). "
        ::= {lportAdminEntry 11}

lportAdminMildThreshold  OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
        "Mild congestion level.  Outbound red packets are discarded
        when the transmit queue hits this threshold.  The threshold
        value is configured in units of 56 byte buffers."
        ::= { lportAdminEntry 12}

lportAdminCheckInterval OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
        "The time interval (measured in seconds) between two successive
        congestion state checkings. By default, it is 1 second."
        DEFVAL {1}
        ::= {lportAdminEntry 13 }

lportAdminClearDelay OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
        "The time delay (measured in seconds) before congestion clearance
        message is sent when the congested port becomes less congested.
        By default, it is 3 seconds."
        DEFVAL {3}
        ::= {lportAdminEntry 14 }

lportAdminBandwidth OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
        "Logical port bandwidth. This attribute is mandatory for lport
        creation and can be modified."

        ::= { lportAdminEntry 15 }

lportAdminCongestionThreshold OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "Congestion Threshold."
    ::= { lportAdminEntry 16 }

lportAdminErrorPerMinThreshold OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "Error Per Minute Threshold"
    ::= { lportAdminEntry 17 }

lportAdminBitStuffing OBJECT-TYPE
    SYNTAX INTEGER {
      off(1),
      on(2)
    }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "Bit Stuffing value.  Does not apply if card type is an
    ATM E3 or DS3, or an 8-port UIO."
    ::= { lportAdminEntry 18}

lportAdminAdminStatus OBJECT-TYPE
    SYNTAX INTEGER {
      up(1),
      down(2),
      testing(3)
    }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "LPort Administrative Status.This attribute is mandatory
    for lport creation"
    ::= { lportAdminEntry 19}

lportAdminCrcChecking OBJECT-TYPE
    SYNTAX INTEGER {
      crc16(1),
      crc32(2)
    }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "CRC type for FR, ATM, or SMDS LPorts on BSTDX HSSI cards"
    ::= { lportAdminEntry 20}

lportAdminBilling OBJECT-TYPE
    SYNTAX INTEGER {
      disabled(1),
      enabled(2)
    }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "Billing Option for FR, ATM, or SMDS LPorts"
    ::= { lportAdminEntry 21}

lportAdminFractionalDs0s OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "Bit Mask for DS0s used by an LPort on a channelized
    T1/E1/DS1 card"
```

```
    ::= { lportAdminEntry 22}

lportAdminRowStatus OBJECT-TYPE
        SYNTAX  RowStatus
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
        "Row status active(1) - Row is currently usable.
         notInService(2) - Row has been created and initialized but not
         made active by client.
         notReady(3) - Row has been created but contains holes, waiting
         for client to finish.
         createAndGo(4) - Not supported.
         createAndWait(5) - Create new row.
         destroy(6) - Delete an existing row."
        ::= { lportAdminEntry 23 }

lportAdminModifyType OBJECT-TYPE
        SYNTAX  INTEGER { normal(1), dbOnly(4), dbOnlySetOutOfSync(5) }
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
        "By default, writes are stored to the database and the switch.
        Set this to dbOnly to send writes only to the database.
        dbOnlySetOutOfSync sends writes to the database and sets the
        Out of Sync flag in the database.
        This value is re-set to normal after every transaction."
        DEFVAL {normal}
        ::= { lportAdminEntry 24 }

lportAdminTrafficShaperId OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION ""
        DEFVAL {1}
         ::= { lportAdminEntry 25}

lportAdminTSPriority OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS read-only
        STATUS current
        DESCRIPTION ""
        DEFVAL {405000}
         ::= { lportAdminEntry 26}

lportAdminTSSustCellRate OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS read-only
        STATUS current
        DESCRIPTION ""
        DEFVAL {405000}
         ::= { lportAdminEntry 27}

lportAdminTSPeakCellRate OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS read-only
        STATUS current
        DESCRIPTION ""
        DEFVAL {1}
         ::= { lportAdminEntry 28}

lportAdminTSBurstTolerance OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS read-only
        STATUS current
        DESCRIPTION ""
        DEFVAL {1}
         ::= { lportAdminEntry 29}

lportAdminSlotId OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS read-only
        STATUS current
        DESCRIPTION "The slot ID containing this lport"
         ::= { lportAdminEntry 30}

lportAdminPPortId OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS read-only
        STATUS current
        DESCRIPTION "The pport which contains this lport"
         ::= { lportAdminEntry 31}

lportAdminSmdsPduViolThresh OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
                "SMDS PDU violation threshold"
        ::= { lportAdminEntry 32}

lportAdminSmdsPduViolTcaFlag OBJECT-TYPE
        SYNTAX INTEGER {
                        disabled (1),
                        enabled  (2)
                        }
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
        "This object defines the ability to enable and disable SMDS
        pdu violation traps on this logical port. This functionality
        applies to the following logical port types:
                Direct Line Trunk
        The default value of this object is 'disabled'.
                "
        ::= {lportAdminEntry 33}
```

```
lportAdminFrBadPvcFactor OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
        "The factor used to determine the threshould for bad PVC
        detection. Its value ranges from 0 to 32. The relationship
        between the threshould and the factor is defined as:
                                        Bc + ( Be / 2 )
                        Threshould = ---------------------- ,
                                        2 ^ (32-Fb)
        where Fb is the factor. By default, it is set to 30. "
        ::= {lportAdminEntry 34 }

lportAdminFrAmberPm  OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
        "The percentage of amber frame reduction when mild congestion
        happens, by default, it is set to 50."
        ::= { lportAdminEntry 35 }

lportAdminFrAmberPs  OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
        "The percentage of amber frame reduction when severe congestion
        happens, by default, it is set to 100."
        ::= { lportAdminEntry 36 }

lportAdminFrSevereThreshold  OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
        "Severe congestion level.  Outbound red and amber packets are
        discarded when the transmit queue hits this threshold.  The
        threshold value is configured in units of 56 byte buffers."
        ::= { lportAdminEntry 37 }

lportAdminFrAbsThreshold     OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
        "Absolute Congestion Level. Outbound green, amber, red packets are
        discarded when the transmit queue hits this threshold.  The
        threshold value is configured in units of 56 byte buffers."
        ::= { lportAdminEntry 38 }
```

lportFrTable

```
-- lportFrTable - contains instances of Lport objects with Frame Relay
-- attributes. NOTE: The lportFrTable is also used to store information
-- associated with proprietary Lport types
-- (identified in CascadeView as type 'other').

lportFrTable OBJECT-TYPE
    SYNTAX SEQUENCE OF LportFrEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION  "List of logical port Frame Relay attribute entries."
    ::= { lportConfiguration 2 }

lportFrEntry OBJECT-TYPE
    SYNTAX LportFrEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
           "Frame Relay logical port attribute entry."
    INDEX  { switchIdIndex, lportIfIndex }
    ::= { lportFrTable 1 }

LportFrEntry ::=
  SEQUENCE {
     lportFrFrameRelayType
        INTEGER,
    lportFrDLCI
        Integer32,
    lportFrLastInvalidDLCI
        Integer32,
    lportFrLinkMgmtProtocol
        INTEGER,
    lportFrDcePollVerifTimer
        Integer32,
    lportFrDceErrorThreshold
        Integer32,
    lportFrDceEventCount
        Integer32,
    lportFrDteErrorThreshold
        Integer32,
    lportFrDteEventCount
        Integer32,
    lportFrDtePollTimer
        Integer32,
    lportFrDteFullPollCounter
        Integer32,
    lportFrOtherType
        INTEGER,
    lportFrLmiUpdateDelay
        Integer32,
    lportFrCirBeRoutingFactors1
        Integer32,
    lportFrCirBeRoutingFactors2
```

```
        Integer32,
    lportFrQ922Signal
        INTEGER,
    lportFrCallAdmissCtrl
        INTEGER,
    lportFrRowStatus
        RowStatus,
    lportFrModifyType
        INTEGER,
    lportFrCllmAdminState
        INTEGER,
    lportFrCllmInterval
        Integer32,
    lportFrCllmThresholdNone
        Integer32,
    lportFrCllmThresholdMild
        Integer32
}

lportFrFrameRelayType OBJECT-TYPE
    SYNTAX INTEGER {
      uniDce(1),
      uniDte(2),
      nni(3),
      optimumTrunk(4)
    }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "Frame Relay Connection Type (valid only if Frame Relay)"
    ::= { lportFrEntry 1}

lportFrDLCI OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
        "The global DLCI correspondent to the interface if the DLCI is
        globally significant in the network. Note that this object is
        read-write only during creation, and read-only after creation."
        ::= { lportFrEntry 2 }

lportFrLastInvalidDLCI OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
        "This item pertains to user frame relay lports only.  The frame
        relay header of the received frame contains a dlci, which
        uniquely identifies a specific pvc on this lport.  When no pvc
        has been configured, on the lport, that corresponds to the
        dlci specified in the frame header, the frame is said to have
        an invalid dlci.  This lport entry holds the value of the
        most recent invalid dlci received on this lport, to be used in
        troubleshooting faulty configurations."
        ::={ lportFrEntry 3}

lportFrLinkMgmtProtocol OBJECT-TYPE
    SYNTAX INTEGER {
      disabled(1),
      lmiRev1(2),
      ansiT1dot617D(3),
      ccittQ933A(4),
      autoDetect(5),
      ansiT1dot617B(6)
    }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "Link Management Protocol Type for Frame Relay LPorts."
    ::= { lportFrEntry 4}

lportFrDcePollVerifTimer OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "DCE Verification Timer for Frame Relay DCE LPorts."
    ::= { lportFrEntry 5}

lportFrDceErrorThreshold OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "DCE Error Threshold for Frame Relay DCE LPorts"
    ::= { lportFrEntry 6 }

lportFrDceEventCount OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "DCE Event Count for Frame Relay DCE LPorts"
    ::= { lportFrEntry 7 }

lportFrDteErrorThreshold OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "DTE Error Threshold for Frame Relay DTE LPorts"
    ::= { lportFrEntry 13}

lportFrDteEventCount OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "DTE Event Count for Frame Relay DTE LPorts"
    ::= { lportFrEntry 14}

 lportFrDtePollTimer OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
```

```
    STATUS current
    DESCRIPTION "DTE Poll Timer for Frame Relay DTE LPorts"
    ::= { lportFrEntry 15}

lportFrDteFullPollCounter OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "Dte Full Poll Counter for Frame Relay DTE LPorts"
    ::= { lportFrEntry 16}

lportFrOtherType OBJECT-TYPE
    SYNTAX INTEGER {
      directFrTrunk(1),
      directCellTrunk(2),      -- not supported yet
      encapsulationFrad(3),
      pppTo1490Xlation(4),
      pppTo1483Xlation(5),
      isdnPriDChannel(6),
      directMgmtTrunk(7)
    }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "Connection type for 'Other' LPorts"
    ::= { lportFrEntry 17}

lportFrLmiUpdateDelay OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "LMI Delay for Frame Relay NNI LPorts."
    ::= { lportFrEntry 18}

lportFrCirBeRoutingFactors1 OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
        "."
        ::= {lportFrEntry 19 }

lportFrCirBeRoutingFactors2 OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
        "."
        ::= {lportFrEntry 20 }

lportFrQ922Signal OBJECT-TYPE
        SYNTAX INTEGER {
                enabled (1),
                disabled (2)
        }
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
        "Frame relay Q922 sinal enable/disable."
        ::= {lportFrEntry 21 }

lportFrCallAdmissCtrl OBJECT-TYPE
         SYNTAX INTEGER {
                enabled (1),
                disabled (2)
        }
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
        "FR call admission control."
       ::= {lportFrEntry 22 }

lportFrRowStatus OBJECT-TYPE
        SYNTAX  RowStatus
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
        "Row status active(1) - Row is currently usable.
         notInService(2) - Row has been created and initialized but not
         made active by client.
         notReady(3) - Row has been created but contains ‘holes’, waiting
         for client to finish.
         createAndGo(4) - Not supported.
         createAndWait(5) - Create new row.
         destroy(6) - Delete an existing row."
        ::= { lportFrEntry 23 }

lportFrModifyType OBJECT-TYPE
        SYNTAX  INTEGER { normal(1), dbOnly(4), dbOnlySetOutOfSync(5) }
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
        "By default, writes are stored to the database and the switch.
        Set this to dbOnly to send writes only to the database.
        dbOnlySetOutOfSync sends writes to the database and sets the
        Out of Sync flag in the database.
        This value is re-set to normal after every transaction."
        DEFVAL {normal}
        ::= { lportFrEntry 24 }

lportFrCllmAdminState OBJECT-TYPE
    SYNTAX INTEGER {
                    down (1),
                    up (2)
                   }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "FrameRelay UNI CLLM administrative state."
    ::= { lportFrEntry 25}
```

```
lportFrCllmInterval OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "FrameRelay UNI CLLM timer duration value.
    It is configurable only when CLLM administrative status is up."
    ::= { lportFrEntry 26}

lportFrCllmThresholdNone OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "FrameRelay UNI CLLM threshold level 1.
    It is considered to be a non-congested state if below this level."
    ::= { lportFrEntry 27}

lportFrCllmThresholdMild OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "FrameRelay UNI CLLM threshold level 2.
    It is considered to be a mild-congested state if below this level
    (above lportFrCllmThresholdNone), else it is in absolute congestion
    state."
    ::= { lportFrEntry 28}
```

lportAtmTable

```
-- lportAtmTable - contains instances of Lport objects consisting of ATM
-- attributes.
--

lportAtmTable OBJECT-TYPE
    SYNTAX SEQUENCE OF LportAtmEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION  "List of Lport entries containing ATM attributes."
    ::= { lportConfiguration 3 }

lportAtmEntry OBJECT-TYPE
    SYNTAX LportAtmEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
           "Group of ATM attributes."
    INDEX  { switchIdIndex, lportIfIndex }
    ::= { lportAtmTable 1 }

LportAtmEntry ::=
  SEQUENCE {
    lportAtmAtmType
        INTEGER,
    lportAtmAtmPcqIndex
        Integer32,
    lportAtmAtmBurstTolerance
        Integer32,
    lportAtmAtmSustainCellRate
        Integer32,
    lportAtmAtmProtocolType
        INTEGER,
    lportAtmAtmUniType
        INTEGER,
    lportAtmAtmConnType
        INTEGER,
    lportAtmAtmValidVpiBits
        Integer32,
    lportAtmAtmValidVciBits
        Integer32,
    lportAtmIlmiAdminStatus
        INTEGER,
    lportAtmIlmiDteScreenMode
        INTEGER,
    lportAtmIlmiPollPeriod
        Integer32,
    lportAtmIlmiLossThreshold
        Integer32,
    lportAtmIlmiValidVpiBits
        Integer32,
    lportAtmIlmiValidVciBits
        Integer32,
    lportAtmOamCircuitAlarms
        INTEGER,
    lportAtmOamAlarmTimerThreshold
        Integer32,
    lportAtmCbrBwAlloc
        Integer32,
    lportAtmVbr1BwAlloc
        Integer32,
    lportAtmVbr2BwAlloc
        Integer32,
    lportAtmUbrBwAlloc
        Integer32,
    lportAtmCbrRouteMetric
        INTEGER,
    lportAtmVbr1RouteMetric
        INTEGER,
    lportAtmVbr2RouteMetric
        INTEGER,
    lportAtmUbrRouteMetric
        INTEGER,
    lportAtmCbrBwOversub
       Integer32,
    lportAtmVbr1BwOversub
       Integer32,
    lportAtmVbr2BwOversub
       Integer32,
    lportAtmUbrBwOversub
```

```
    Integer32,
  lportAtmAtmCallAdmControl
       INTEGER,
  lportAtmUpcFunction -- add marker
       INTEGER,
  lportAtmCtrlUpcFunction
       INTEGER,
  lportAtmNpcFunction
       INTEGER,
  lportAtmCellHeadFormat
       INTEGER,
  lportAtmConnectionClass
       INTEGER,
  lportAtmPvcRangeVpiStart
       Integer32,
  lportAtmPvcRangeVpiStop
       Integer32,
  lportAtmVpiToVpciOffSet
       Integer32,
  lportAtmPvPVpiMin
       Integer32,
  lportAtmPvpVpiMax
       Integer32,
  lportAtmPvcVpiMin
       Integer32,
  lportAtmPvcVpiMax
       Integer32,
  lportAtmPvcVciMin
       Integer32,
  lportAtmPvcVciMax
       Integer32,
  lportAtmSvcVpiMin
       Integer32,
  lportAtmSvcVpiMax
       Integer32,
  lportAtmSvcVciMin
       Integer32,
  lportAtmSvcVciMax
       Integer32,
  lportAtmIsCbrDynamic
       INTEGER,
  lportAtmIsVbrRTDynamic
       INTEGER,
  lportAtmIsVbrNRTDynamic
       INTEGER,
  lportAtmIsUbrDynamic
       INTEGER,
  lportAtmAtmPeakCellRate
       Integer32,
  lportAtmRowStatus
       RowStatus,
  lportAtmModifyType
       INTEGER
}
```

```
lportAtmAtmType OBJECT-TYPE
    SYNTAX INTEGER {
     uniDce(1),
     uniDte(2),
     xportForFrNni(3),
     optimumFrameTrunk(4),
     optimumCellTrunk(5),
     directTrunk(6),
     nni(8)
    }
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION "ATM Connection Type (valid only if ATM)"
    ::= { lportAtmEntry 1 }

lportAtmAtmPcqIndex OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "Index into the priority queues defined in the PPort.
                 Only applicable for LPorts on a DS3 Card."
    ::= { lportAtmEntry 2}

lportAtmAtmBurstTolerance OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "Burst tolerance.
    Only applicable for LPorts on a DS3 Card."
    ::= { lportAtmEntry 3}

lportAtmAtmSustainCellRate OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "Sustainable cell rate.
    Only applicable for LPorts on a DS3 Card."
    ::= { lportAtmEntry 4}

lportAtmAtmProtocolType OBJECT-TYPE
        SYNTAX  INTEGER {
                        uni30 (1),
                        uni31 (2),
                        iisp31 (3),
                        bici11 (4)
                }
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
        "ATM protocol and its version supported at this ATM port."
        ::= { lportAtmEntry 5}

lportAtmAtmUniType  OBJECT-TYPE
```

```
        SYNTAX  INTEGER {
                public(1),
                private(2)
        }
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
                "The type of UNI for this ATM lport."
        ::= { lportAtmEntry 6 }

lportAtmAtmConnType  OBJECT-TYPE
        SYNTAX  INTEGER {
                netToEnd(1),
                netToNet(2)
        }
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
                "The type of connection at this lport."
        ::= { lportAtmEntry 7}

lportAtmAtmValidVpiBits OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
                "Number of bits of VPI supported."
        ::= { lportAtmEntry 8}

lportAtmAtmValidVciBits OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
                "Number of bits of VCI supported."
        ::= { lportAtmEntry  9 }

lportAtmIlmiAdminStatus OBJECT-TYPE
        SYNTAX  INTEGER {
                        enabled (1),
                        disabled (2)
                }
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
        "Administrative state for ILMI function on this ATM port.  When
        enabled on DCE ports, the port will actively transmit polls and
        monitor responses in order to determine the operational status of
        the port. When enabled for DTE ports, the port will passively
        monitor polls to determine the operational status of the port."
        ::= { lportAtmEntry 10}

lportAtmIlmiDteScreenMode OBJECT-TYPE
        SYNTAX  INTEGER {
                        nodePrefix (1),
                        portPrefix (2),
                        nodePrefixOrPortPrefix (3),
                        rejectAll (127),
                        acceptAll (255)
        }
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
        "The type of screening, if any, to apply against dynamic prefixes
        received from the peer ILMI entity at this ATM DTE port."
        ::= { lportAtmEntry 11 }

lportAtmIlmiPollPeriod OBJECT-TYPE
        SYNTAX Integer32 (1..255)
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
        "If ILMI is enabled for this ATM port, the duration in seconds
        that the ILMI poll is generated, if DCE, or monitored, if DTE.
        The default value is 5 seconds."
        ::= { lportAtmEntry 12 }

lportAtmIlmiLossThreshold OBJECT-TYPE
        SYNTAX Integer32 (1..255)
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
        "Link is considered down if response loss exceeds this threshold."
        ::= { lportAtmEntry 13 }

lportAtmIlmiValidVpiBits OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
                "Valid VPI header bits."
        ::= { lportAtmEntry 14 }

lportAtmIlmiValidVciBits OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
                "Valid VCI header bits."
        ::= { lportAtmEntry 15 }

lportAtmOamCircuitAlarms OBJECT-TYPE
        SYNTAX  INTEGER {
               disabled(1),
                enabled(2)
               }
        MAX-ACCESS      read-write
        STATUS current
```

```
        DESCRIPTION
                "Lport may generate OAM alarms if this is enabled."
        ::= { lportAtmEntry 16 }

lportAtmOamAlarmTimerThreshold OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
                "."
        ::= { lportAtmEntry 17 }

lportAtmCbrBwAlloc OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION " Constant bit rate (CBR) bandwidth allocation for
        atm lport. Accessible only when lportAtmIsCbrDynamic is set to
        false. Value ranges from 0 to 100 in percent."
       ::= { lportAtmEntry 18 }

lportAtmVbr1BwAlloc OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION " Variable bit rate (VBR) real time bandwidth
        allocation for atm lport. Accessible only when
        lportAtmIsVbrRTDynamic is set to false. Value ranges from 0 to
        100 in percent."
       ::= { lportAtmEntry  19}

lportAtmVbr2BwAlloc OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION "Variable bit rate (VBR) non-real time bandwidth
        allocation for atm lport. Accessible only when
        lportAtmIsVbrNRTDynamic is set to false. Value ranges from 0 to
        100 in percent."
        ::= { lportAtmEntry  20}

lportAtmUbrBwAlloc OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION " Unspecified bit rate (UBR) bandwidth allocation for
        atm lport. Accessible only when lportAtmIsUbrRTDynamic is set to
        false. Value ranges from 0 to 100 in percent."
        ::= { lportAtmEntry 21 }

lportAtmCbrRouteMetric OBJECT-TYPE
        SYNTAX  INTEGER {
                    adminCost (1),
                    endToEndDelay (2),
                    cellDelayVariation (3)
                }
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION "Routing metric associated with CBR."
        ::= { lportAtmEntry 22 }

lportAtmVbr1RouteMetric OBJECT-TYPE
        SYNTAX  INTEGER {
                    administrativeCost (1),
                    endToEndDelay (2),
                    cellDelayVariation (3)
                }
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION "Routing metric associated with QoS VBR (real time)."
        ::= { lportAtmEntry 23 }

lportAtmVbr2RouteMetric OBJECT-TYPE
        SYNTAX  INTEGER {
                    administrativeCost (1),
                    endToEndDelay (2),
                    cellDelayVariation (3)
                }
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION "Routing metric associated with QoS VBR (non-real
        time)."
        ::= { lportAtmEntry 24 }

lportAtmUbrRouteMetric OBJECT-TYPE
        SYNTAX  INTEGER {
                    administrativeCost (1),
                    endToEndDelay (2),
                    cellDelayVariation (3)
                }
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION "Routing metric associated with QoS UBR."
        ::= { lportAtmEntry 25 }

lportAtmCbrBwOversub OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS      read-only
        STATUS current
        DESCRIPTION " Constant bit rate (CBR) bandwidth oversubscription"
        ::= { lportAtmEntry 26 }

lportAtmVbr1BwOversub OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION " Variable bit rate (VBR) real time bandwidth
        oversubscription. "
```

```
        ::= { lportAtmEntry  27}

lportAtmVbr2BwOversub OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION "Variable bit rate (VBR) non-real time bandwidth
        oversubscription. "
        ::= { lportAtmEntry 28 }

lportAtmUbrBwOversub OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION " Unspecified bit rate (UBR) bandwidth
        oversubscription."
        ::= { lportAtmEntry  29}

lportAtmAtmCallAdmControl OBJECT-TYPE
        SYNTAX INTEGER {
           enabled (1),
           disabled (2)
        }
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION " "
        ::= { lportAtmEntry  30}

lportAtmUpcFunction OBJECT-TYPE
        SYNTAX INTEGER {
          disabled (1),
          enabled (2)
        }
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
                "Enable ATM UPC Function."
        ::= { lportAtmEntry  31}

lportAtmCellHeadFormat OBJECT-TYPE
        SYNTAX INTEGER {
           uni (1),
           nni (2)
        }
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
        "atm cell header with uni-format or nni-format with no GFC."
        ::= { lportAtmEntry  32}

lportAtmConnectionClass OBJECT-TYPE
        SYNTAX INTEGER {
           direct(1),
           virtual(2)
        }
        MAX-ACCESS read-only
        STATUS current
        DESCRIPTION "."
        ::= { lportAtmEntry  33}

lportAtmPvcRangeVpiStart OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS read-only
        STATUS current
        DESCRIPTION
                "VPI value in the ATM cell header:
                 ATM DXI with HSSI IOP VPI (4 lsb bit) range: 0 - 15
                 ATM UNI DS3/E3 IOP    VPI (4 lsb bit) range: 0 - 15"
        ::= { lportAtmEntry  34}

lportAtmPvcRangeVpiStop  OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
                "The stop value for the PVC VPI range.
                 Used only by VP Mux termination lports"
        ::= { lportAtmEntry  35}

lportAtmVpiToVpciOffSet  OBJECT-TYPE
        SYNTAX Integer32 (0..4095)
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
                "VPCI to VPI offset."
        DEFVAL { 0 }
        ::= { lportAtmEntry  36}

lportAtmPvPVpiMin  OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS read-only
        STATUS current
        DESCRIPTION "."
        ::= { lportAtmEntry  37}

lportAtmPvpVpiMax  OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS read-only
        STATUS current
        DESCRIPTION "."
        ::= { lportAtmEntry  38}

lportAtmPvcVpiMin  OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS read-read
        STATUS current
        DESCRIPTION "."
        ::= { lportAtmEntry  39}
```

```
lportAtmPvcVpiMax   OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS read-only
        STATUS current
        DESCRIPTION "."
        ::= { lportAtmEntry  40}

lportAtmPvcVciMin   OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS read-only
        STATUS current
        DESCRIPTION "."
        ::= { lportAtmEntry  41}

lportAtmPvcVciMax   OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS read-only
        STATUS current
        DESCRIPTION "."
        ::= { lportAtmEntry  42}

lportAtmSvcVpiMin   OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION "."
        ::= { lportAtmEntry  43}

lportAtmSvcVpiMax   OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION "."
        ::= { lportAtmEntry  44}

lportAtmSvcVciMin   OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION "."
        ::= { lportAtmEntry  45}

lportAtmSvcVciMax   OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION "."
        ::= { lportAtmEntry  46}

lportAtmIsCbrDynamic OBJECT-TYPE
        SYNTAX INTEGER {
          false(1),
          true(2)
        }
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION " "
        ::= { lportAtmEntry  47}

lportAtmIsVbrRTDynamic OBJECT-TYPE
        SYNTAX INTEGER {
          false(1),
          true(2)
        }
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION " "
        ::= { lportAtmEntry  48}

lportAtmIsVbrNRTDynamic OBJECT-TYPE
        SYNTAX INTEGER {
          false(1),
          true(2)
        }
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION " "
        ::= { lportAtmEntry  49}

lportAtmIsUbrDynamic OBJECT-TYPE
        SYNTAX INTEGER {
          false(1),
          true(2)
        }
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION " "
        ::= { lportAtmEntry  50}

lportAtmAtmPeakCellRate OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION " "
        ::= { lportAtmEntry  51}

lportAtmRowStatus OBJECT-TYPE
        SYNTAX  RowStatus
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
        "Row status active(1) - Row is currently usable.
         notInService(2) - Row has been created and initialized but not
         made active by client.
         notReady(3) - Row has been created but contains holes, waiting
         for client to finish.
         createAndGo(4) - Not supported.
```

```
         createAndWait(5) - Create new row.
         destroy(6) - Delete an existing row."
        ::= { lportAtmEntry 52 }

lportAtmModifyType OBJECT-TYPE
        SYNTAX  INTEGER { normal(1), dbOnly(4), dbOnlySetOutOfSync(5) }
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
        "By default, writes are stored to the database and the switch.
        Set this to dbOnly to send writes only to the database.
        dbOnlySetOutOfSync sends writes to the database and sets the
        Out of Sync flag in the database.
        This value is re-set to normal after every transaction."
        DEFVAL {normal}
        ::= { lportAtmEntry 53}

lportAtmNpcFunction OBJECT-TYPE
        SYNTAX INTEGER {
          disabled (1),
          enabled (2)
        }
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
                "Enable ATM NPC Function."
        ::= { lportAtmEntry  54}

lportAtmCtrlUpcFunction OBJECT-TYPE
        SYNTAX INTEGER {
          disabled (1),
          enabled (2)
        }
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
                "Enable ATM Control UPC Function."
        ::= { lportAtmEntry  55}
```

lportAtmFcpTable

```
-- lportAtmFcpTable -contains instances of lport objects consisting of
-- Atm Fcp Attributes
--

lportAtmFcpTable OBJECT-TYPE
    SYNTAX SEQUENCE OF LportAtmFcpEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION  "List of Lport entries containing Atm Fcp attributes."
    ::= { lportConfiguration 5 }

lportAtmFcpEntry OBJECT-TYPE
    SYNTAX LportAtmFcpEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
           "Group of ATM attributes."
    INDEX  {switchIdIndex , lportIfIndex }
    ::= { lportAtmFcpTable 1 }

LportAtmFcpEntry ::=
  SEQUENCE {
        lportAtmFcpRmCellGen
        INTEGER,
        lportAtmFcpRmCellTerm
        INTEGER,
        lportAtmFcpEfciBitCheck
        INTEGER,
        lportAtmFcpTotalBuffer
        Integer32,
        lportAtmFcpClp01Thresh
        Integer32,
        lportAtmFcpDiscardThresh
        Integer32,
        lportAtmFcpEfciThresh
        Integer32,
        lportAtmFcpRowStatus
        RowStatus,
        lportAtmFcpModifyType
        INTEGER
}

lportAtmFcpRmCellGen OBJECT-TYPE
        SYNTAX INTEGER {
                noLoop (1),
                ccrm (2),
                bcm (3)
        }
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
                "The type of RM cells the NRTS processor generates on this
                 lport."
        ::= {lportAtmFcpEntry 1}

lportAtmFcpRmCellTerm OBJECT-TYPE
        SYNTAX INTEGER {
                ccrm (1),
                ccrmAndBcm (2)
        }
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
                "The type of RM cells the NRTS processor terminates on
                this lport."
        ::= {lportAtmFcpEntry 2}
```

```
lportAtmFcpEfciBitCheck OBJECT-TYPE
        SYNTAX INTEGER {
                disabled (1),
                enabled (2)
        }
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
                "Whether the NRTS processor checks the EFCI bit for
                circuits on this lport when incrementing EFCI counts."
        ::= {lportAtmFcpEntry 3}

lportAtmFcpTotalBuffer OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
                "Cell buffer size for this lport controlled by the NRTS
                 processor."
        ::= {lportAtmFcpEntry 4}

lportAtmFcpClp01Thresh OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
                "The CLP=0+1 threshold for this lport used by the NRTS
                 processor. Must be smaller than the cell buffer size
                 allocated for this lport."
        ::= {lportAtmFcpEntry 5}

lportAtmFcpDiscardThresh OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
                "The CLP=1 discard threshold for this lport used by the
                NRTS processor. Must be smaller than the CLP=0+1
                threshold. May also be used as the EPD threshold."
        ::= {lportAtmFcpEntry 6}

lportAtmFcpEfciThresh OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
                "The EFCI threshold for this lport used by the NRTS
                processor. Must be smaller than the CLP=0+1 and discard
                thresholds."
        ::= {lportAtmFcpEntry 7}

lportAtmFcpRowStatus OBJECT-TYPE
        SYNTAX  RowStatus
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
        "Row status active(1) - Row is currently usable.
         notInService(2) - Row has been created and initialized but not
         made active by client.
         notReady(3) - Row has been created but contains holes, waiting
         for client to finish.
         createAndGo(4) - Not supported.
         createAndWait(5) - Create new row.
         destroy(6) - Delete an existing row."
        ::= { lportAtmFcpEntry 8 }

lportAtmFcpModifyType OBJECT-TYPE
        SYNTAX  INTEGER { normal(1), dbOnly(4), dbOnlySetOutOfSync(5) }
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
        "By default, writes are stored to the database and the switch.
        Set this to dbOnly to send writes only to the database.
        dbOnlySetOutOfSync sends writes to the database and sets the
        Out of Sync flag in the database.
        This value is re-set to normal after every transaction."
        DEFVAL {normal}
        ::= { lportAtmFcpEntry 9}
```

lportAtmNtmTable

```
-- lportAtmNtmTable -contains instances of lport objects consisting of
-- Atm Ntm Attributes
--

lportAtmNtmTable OBJECT-TYPE
    SYNTAX SEQUENCE OF LportAtmNtmEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION  "List of Lport entries containing Atm Ntm attributes."
    ::= { lportConfiguration 6 }

lportAtmNtmEntry OBJECT-TYPE
    SYNTAX LportAtmNtmEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
           "Group of ATM attributes."
    INDEX  {switchIdIndex , lportIfIndex }
    ::= { lportAtmNtmTable 1 }

LportAtmNtmEntry ::=
  SEQUENCE {
        lportAtmNtmCt0
        Integer32,
        lportAtmNtmCt1
        Integer32,
        lportAtmNtmCt2
```

```
        Integer32,
        lportAtmNtmCt3
        Integer32,
        lportAtmNtmNotificationTime
        Integer32,
        lportAtmNtmRowStatus
        RowStatus,
        lportAtmNtmModifyType
        INTEGER
}

lportAtmNtmCt0 OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
                "Congestion threshold #0 for NTM/NDC in cells/second.
                 Used as a severe congestion abatement threshold on an
                 IOM."
        ::= {lportAtmNtmEntry 1}

lportAtmNtmCt1 OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
                "Congestion threshold #1 for NTM/NDC in cells/second.
                 Used as a severe congestion abatement threshold on an
                 IOM."
        ::= {lportAtmNtmEntry 2}

lportAtmNtmCt2 OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
                "Congestion threshold #2 for NTM/NDC in cells/second.
                 Used as a severe congestion abatement threshold on an
                 IOM."
        ::= {lportAtmNtmEntry 3}

lportAtmNtmCt3 OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
                "Congestion threshold #3 for NTM/NDC in cells/second.
                 Used as a severe congestion abatement threshold on an
                 IOM."
        ::= {lportAtmNtmEntry 4}

lportAtmNtmNotificationTime OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
                "Selects a minimum severe congestion period upon which
                 an alarm is generated on an IOM. Default value is
                 30 seconds."
        ::= {lportAtmNtmEntry 5}

lportAtmNtmRowStatus OBJECT-TYPE
        SYNTAX  RowStatus
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
        "Row status active(1) - Row is currently usable.
         notInService(2) - Row has been created and initialized but not
         made active by client.
         notReady(3) - Row has been created but contains 'holes', waiting
         for client to finish.
         createAndGo(4) - Not supported.
         createAndWait(5) - Create new row.
         destroy(6) - Delete an existing row."
        ::= { lportAtmNtmEntry 6 }

lportAtmNtmModifyType OBJECT-TYPE
        SYNTAX  INTEGER { normal(1), dbOnly(4), dbOnlySetOutOfSync(5) }
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
        "By default, writes are stored to the database and the switch.
        Set this to dbOnly to send writes only to the database.
        dbOnlySetOutOfSync sends writes to the database and sets the
        Out of Sync flag in the database.
        This value is re-set to normal after every transaction."
        DEFVAL {normal}
        ::= { lportAtmNtmEntry 7 }
```

lportAtmBillingTable

```
-- lportAtmBillingTable -contains instances of lport objects consisting
-- of Atm Billing Attributes
--

lportAtmBillingTable OBJECT-TYPE
    SYNTAX SEQUENCE OF LportAtmBillingEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION  "List of Lport entries containing Atm Billing
    attributes."
    ::= { lportConfiguration 7 }

lportAtmBillingEntry OBJECT-TYPE
    SYNTAX LportAtmBillingEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
```

```
            "Group of ATM attributes."
    INDEX  {switchIdIndex , lportIfIndex }
    ::= { lportAtmBillingTable 1 }

LportAtmBillingEntry ::=
  SEQUENCE {
        lportAtmBillingSvcAccounting
        INTEGER,
        lportAtmBillingPvcParamRec
        INTEGER,
        lportAtmBillingAddrSameAsUni
        INTEGER,
        lportAtmBillingCarrierId
        Integer32,
        lportAtmBillingGenPtPt
        INTEGER,
        lportAtmBillingGenPtMultiPt
        INTEGER,
        lportAtmBillingGenUnsuccess
        INTEGER,
        lportAtmBillingIntraAbr
        INTEGER,
        lportAtmBillingIntraUbr
        INTEGER,
        lportAtmBillingIntraVbr
        INTEGER,
        lportAtmBillingIntraCbr
        INTEGER,
        lportAtmBillingSvcSubAddr
        INTEGER,
        lportAtmBillingRowStatus
        RowStatus,
        lportAtmBillingModifyType
        INTEGER,
        lportAtmBillingDefaultUniAddrFormat
        Integer32,
        lportAtmBillingDefaultUniAddrAsc
        OCTET STRING,
        lportAtmBillingDefaultUniAddrHex
        OCTET STRING,
        lportAtmBillingDefaultUniAddrAfi
        OCTET STRING,
        lportAtmBillingDefaultUniAddrPrefix
        OCTET STRING
}

lportAtmBillingSvcAccounting OBJECT-TYPE
        SYNTAX INTEGER {
                disabled(1),
                enabled(2)
        }

        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
                "This object defines the ability to enable and disable ATM
                SVC accounting on this logical port.  When the value of
                atmacctControl is 'enabled', the value of this object will
                take precedence.  When the value of atmacctControl is
                'disabled', the value of this object will be overridden
                and ATM SVC accounting will be disabled.

                The default value of this object is 'disabled'.
                "
        ::= {lportAtmBillingEntry 1}

lportAtmBillingPvcParamRec OBJECT-TYPE
        SYNTAX INTEGER {
                disabled (1),
                enabled  (2)
        }
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
                "This object controls the recording of ATM PVC parameters
                when usage measurement is enabled for this port.  When set
                to enabled(2), all of the following parameters (if defined
                for the circuit) will be recorded in the usage data for
                each PVC:
                        Ingress Peak Cell Rates (CLP=0) and (CLP=0+1)
                        Ingress Sustained Cell Rates (CLP=0) and (CLP=0+1)
                        Ingress QoS Class
                        Egress Peak Cell Rates (CLP=0) and (CLP=0+1)
                        Egress Sustained Cell Rates (CLP=0) and (CLP=0+1)
                        Egress QoS Class

                This object is defined at the user (UNI) and network
                interfaces (B-ICI and NNI).

                The default value of this object is disabled(1).

                Note: this object is read-only if PVCs are provisioned on
                the specified port."
        ::= {lportAtmBillingEntry 2}

lportAtmBillingAddrSameAsUni OBJECT-TYPE
        SYNTAX INTEGER {
                false(1),
                true(2)
        }
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
                "This object identifies the type of ATM address that is
                to be used as the default billing address for SVCs
                originating on this logical port. If the value is no(2),
                the octet string comprising this address is given by
                parameter DefaultUniAddr. If the value of this parameter
```

```
                is yes(1), switch will use the Calling Party Insertion
                address defined for this logical port as the default
                billing address.  In this case, the value of
                DefaultUniAddr has no meaning and should be set to null."
        ::= {lportAtmBillingEntry 3}

lportAtmBillingDefaultUniAddrFormat OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
                "This is the address-format type of Default Billing
                Address for ATM SVCs which originate at his lport.  Note
                that this address may be different from the Default UNI
                Address defined for Calling Party Insertion.

                The Default address for the port must be recorded at the
                switch whenever:
                1) no Calling Party Number is present, or
                2) the Calling Party Number fails screening or is
                   invalid, or
                3) the Calling Party Number is different from the default
                   address."
        ::= {lportAtmBillingEntry 4}

lportAtmBillingCarrierId OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
                "This object defines a Default Billing Address for ATM
                SVCs which originate at his lport.  Note that this
                address may be different from the Default UNI Address
                defined for Calling Party Insertion.

                The Default address for the port must be recorded at the
                switch whenever:
                1) no Calling Party Number is present, or
                2) the Calling Party Number fails screening or is
                   invalid, or
                3) the Calling Party Number is different from the default
                   address."
        ::= {lportAtmBillingEntry 5}

lportAtmBillingGenPtPt OBJECT-TYPE
        SYNTAX INTEGER {
                disabled    (1),
                originating (2),
                terminating (3),
                enabled     (4)
            }
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
                "This object is used to enable or disable the recording of
                usage information for Point to Point ATM SVCs that
                originate or terminate on this port.

                disabled    = Usage measurement will not be performed for
                              SVC calls on this port.
                originating = Usage data is generated only for calls that
                              originate on this port.
                terminating = Usage data is generated only for calls that
                              terminate on this port.
                enabled     = Usage measurement will be performed at both
                              originating and terminating ends of all
                              calls on this port.

                The default value of this object is enabled(4).

                When set to a value other than disabled(1), unsuccessful
                ATM SVC calls will be recorded according to the value of
                the  atmacctLportUnsuccSvcRecording object.  Otherwise
                unsuccessful calls will not be recorded."
        ::= {lportAtmBillingEntry 6}

lportAtmBillingGenPtMultiPt OBJECT-TYPE
        SYNTAX INTEGER {
                disabled    (1),
                originating (2),
                terminating (3),
                enabled     (4)
            }
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
                "This object is used to enable or disable the recording of
                usage information for Point to Multi-Point ATM SVCs that
                originate or terminate on this port.

                disabled    = Usage measurement will not be performed for
                              SVC calls on this port.
                originating = Usage data is generated only for calls that
                              originate on this port.
                terminating = Usage data is generated only for calls that
                              terminate on this port.
                enabled     = Usage measurement will be performed at both
                              originating and terminating ends of all
                              calls on this port.

                The default value of this object is terminating(3)

                When set to a value other than disabled(1), unsuccessful
                ATM SVC calls will be recorded according to the value of
                the atmacctLportUnsuccSvcRecording object.  Otherwise
                unsuccessful calls will not be recorded."
        ::= {lportAtmBillingEntry 7}
```

```
lportAtmBillingGenUnsuccess OBJECT-TYPE
        SYNTAX INTEGER {
               disabled    (1),
               originating (2),
               terminating (3),
               enabled     (4)
           }
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
                "This object is used to enable or disable the recording of
                 usage information for unsuccessful ATM SVCs that originate
                 or terminate on this port.  Note that this parameter
                 governs recording for both point-to-point and
                 point-to-multipoint SVCs.

                 disabled    = Usage data will not be generated for
                               unsuccessful calls on this port.
                 originating = Usage data is generated for all unsuccessful
                               calls that originated on this port.  This
                               value can only be set for UNI ports.
                 terminating = Usage data is generated for all unsuccessful
                               calls that terminated on this port.
                 enabled     = Usage data is generated for all unsuccessful
                               calls that originated or terminated on this
                               port.  This value can only be set for UNI
                               ports.

                 The default value of this object is enabled(4) at the UNI
                 and disabled(1) at the network interface.

                 The acceptable values of this object on a network
                 interface are disabled(1) or terminating(3)."
        ::= {lportAtmBillingEntry 8}

lportAtmBillingIntraAbr OBJECT-TYPE
        SYNTAX INTEGER {
               disabled (1),
               enabled  (2),
               study    (3)
            }
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
                "This object is used to enable or disable the recording of
                 Intranetwork ATM ABR SVCs at the UNI.  The switch will
                 generate usage data for the SVC only if the parameter
                 is set to enabled(2) or study(3).

                 If this parameter is set to study, usage data that is
                 generated is marked as 'study', per Bellcore GR-1110-CORE.

                 This parameter does not apply to ABR recording for
                 inter-network SVCs.

                 The default value of this object is enabled(2)."
        ::= {lportAtmBillingEntry 9}

lportAtmBillingIntraUbr OBJECT-TYPE
        SYNTAX  INTEGER {
                 disabled (1),
                 enabled  (2),
                 study    (3)
            }
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
                "This object is used to enable or disable the recording of
                 Intranetwork ATM UBR SVCs at the UNI.  The switch will
                 generate usage data for the SVC only if the parameter
                 is set to enabled(2) or study(3).

                 If this parameter is set to study, usage data that is
                 generated is marked as 'study', per Bellcore GR-1110-CORE.

                 This parameter does not apply to UBR recording for
                 inter-network SVCs.

                 The default value of this object is enabled(2)."
        ::= {lportAtmBillingEntry 10}

lportAtmBillingIntraVbr OBJECT-TYPE
        SYNTAX INTEGER {
                   disabled (1),
                   enabled  (2),
                   study    (3)
                }
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
                "This object is used to enable or disable the recording of
                 Intranetwork ATM VBR SVCs at the UNI.  The switch will
                 generate usage data for the SVC only if the parameter
                 is set to enabled(2) or study(3).

                 If this parameter is set to study, usage data that is
                 generated is marked as 'study', per Bellcore GR-1110-CORE.

                 This parameter does not apply to VBR recording for
                 inter-network SVCs.

                 The default value of this object is enabled(2)."
        ::= {lportAtmBillingEntry 11}

lportAtmBillingIntraCbr OBJECT-TYPE
        SYNTAX  INTEGER {
                   disabled (1),
                   enabled  (2),
```

```
                study    (3)
              }
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
                "This object is used to enable or disable the recording of
                 Intranetwork ATM CBR SVCs at the UNI.  The switch will
                 generate usage data for the SVC only if the parameter
                 is set to enabled(2) or study(3).

                 If this parameter is set to study, usage data that is
                 generated is marked as 'study', per Bellcore GR-1110-CORE.

                 This parameter does not apply to CBR recording for
                 inter-network SVCs.

                 The default value of this object is enabled(2)."
        ::= {lportAtmBillingEntry 12}

lportAtmBillingSvcSubAddr OBJECT-TYPE
        SYNTAX  INTEGER {
                 disabled     (1),
                 callingParty (2),
                 calledParty  (3),
                 enabled      (4)
               }
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
                "This object is used to enable or disable the recording of
                 the Sub-addresses in ATM SVC accounting records at the
                 UNI.

                 disabled     = Do not records Sub-addresses
                 callingParty = Record the Calling Party Sub-address when
                                present in a call
                 calledParty  = Record the Called Party Sub-address when
                                present in a call
                 enabled      = Record both sub-addresses when present

        The default value of this object is disabled(1)."
        ::= {lportAtmBillingEntry 13}

   lportAtmBillingRowStatus OBJECT-TYPE
        SYNTAX  RowStatus
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
        "Row status active(1) - Row is currently usable.
         notInService(2) - Row has been created and initialized but not
         made active by client.
         notReady(3) - Row has been created but contains ‘holes’, waiting
         for client to finish
         createAndGo(4) - Not supported.
         createAndWait(5) - Create new row.
         destroy(6) - Delete an existing row."
        ::= { lportAtmBillingEntry 14 }

    lportAtmBillingModifyType OBJECT-TYPE
        SYNTAX  INTEGER { normal(1), dbOnly(4), dbOnlySetOutOfSync(5) }
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
        "By default, writes are stored to the database and the switch.
        Set this to dbOnly to send writes only to the database.
        dbOnlySetOutOfSync sends writes to the database and sets the
        Out of Sync flag in the database.
        This value is re-set to normal after every transaction."
        DEFVAL {normal}
        ::= { lportAtmBillingEntry 15 }

lportAtmBillingDefaultUniAddrAsc OBJECT-TYPE
        SYNTAX OCTET STRING
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
                "This is the ascii string for E.164native address-format
                 type of Default Billing Address for ATM SVCs."
        ::= {lportAtmBillingEntry 16}

lportAtmBillingDefaultUniAddrHex OBJECT-TYPE
        SYNTAX OCTET STRING
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
                "This is the hex string for AESA addresses ."
        ::= {lportAtmBillingEntry 17}

lportAtmBillingDefaultUniAddrAfi OBJECT-TYPE
        SYNTAX OCTET STRING
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
                "Afi is a read-write attribute for CustomAESA address
                 and read-only for other AESA formats."
        ::= {lportAtmBillingEntry 18}

lportAtmBillingDefaultUniAddrPrefix OBJECT-TYPE
        SYNTAX OCTET STRING
        MAX-ACCESS read-only
        STATUS current
        DESCRIPTION
                "This is the prefix string for ATM SVCs.
                 Incase of E.164native it is same as the ascii string but
                 incase of AESA addresses it afi+hex strings"
        ::= {lportAtmBillingEntry 19}
```

SVC ATM Configuration Table

```
--      SVC ATM Configuration Table
--

lportAtmSvcConfigTable OBJECT-TYPE
        SYNTAX  SEQUENCE OF LportAtmSvcConfigEntry
        MAX-ACCESS      not-accessible
        STATUS current
        DESCRIPTION
                "A table of ATM signalling parameters associated with ATM
                logical ports.  The maximum number of entries is given by
                the value of ifNumber in MIB-II."
        ::= { lportConfiguration 8 }

lportAtmSvcConfigEntry OBJECT-TYPE
        SYNTAX  LportAtmSvcConfigEntry
        MAX-ACCESS      not-accessible
        STATUS current
        DESCRIPTION
                "The SVC ATM configuration entry contains objects
                relevant to the configuration and monitoring of ATM
                signalling on an ATM logical port."
        INDEX   { switchIdIndex, lportIfIndex }
        ::= { lportAtmSvcConfigTable 1 }

LportAtmSvcConfigEntry ::=
        SEQUENCE {
                lportAtmSvcConfigSigAdminStatus
                        INTEGER,
                lportAtmSvcConfigQ93bMaxRestart
                        Integer32,
                lportAtmSvcConfigQ93bMaxStatEnq
                        Integer32,
                lportAtmSvcConfigQ93bT303
                        Integer32,
                lportAtmSvcConfigQ93bT308
                        Integer32,
                lportAtmSvcConfigQ93bT309
                        Integer32,
                lportAtmSvcConfigQ93bT310
                        Integer32,
                lportAtmSvcConfigQ93bT313
                        Integer32,
                lportAtmSvcConfigQ93bT316
                        Integer32,
                lportAtmSvcConfigQ93bT322
                        Integer32,
                lportAtmSvcConfigQ93bT398
                        Integer32,
                lportAtmSvcConfigQ93bT399
                        Integer32,
                lportAtmSvcConfigQSaalMaxCC
                        Integer32,
                lportAtmSvcConfigQSaalMaxPD
                        Integer32,
                lportAtmSvcConfigQSaalMaxStat
                        Integer32,
                lportAtmSvcConfigQSaalTPoll
                        Integer32,
                lportAtmSvcConfigQSaalTKeepalive
                        Integer32,
                lportAtmSvcConfigQSaalTNoResponse
                        Integer32,
                lportAtmSvcConfigQSaalTCC
                        Integer32,
                lportAtmSvcConfigQSaalTIdle
                        Integer32,
                lportAtmSvcConfigRowStatus
                        RowStatus,
                lportAtmSvcConfigModifyType
                         INTEGER
        }

lportAtmSvcConfigSigAdminStatus OBJECT-TYPE
        SYNTAX  INTEGER {
                enabled (1),
                disabled (2)
        }
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
                "The configured state of the ATM signalling function for
                this port."
        ::= { lportAtmSvcConfigEntry 1 }

lportAtmSvcConfigQ93bMaxRestart OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
                "The maximum number of unacknowledged restarts to send
                before declaring a signalling failure."
        ::= { lportAtmSvcConfigEntry 2 }

lportAtmSvcConfigQ93bMaxStatEnq OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
                "The maximum number of unacknowledged status enquiries to
                send before issuing a restart."
        ::= { lportAtmSvcConfigEntry 3 }

lportAtmSvcConfigQ93bT303 OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS      read-write
        STATUS current
```

```
        DESCRIPTION
                "Protocol Timer T303, specified in milliseconds."
        ::= { lportAtmSvcConfigEntry 4 }

lportAtmSvcConfigQ93bT308 OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
                "Protocol Timer T308, specified in milliseconds."
        ::= { lportAtmSvcConfigEntry 5 }

lportAtmSvcConfigQ93bT309 OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
                "Protocol Timer T309, specified in milliseconds."
        ::= { lportAtmSvcConfigEntry 6 }

lportAtmSvcConfigQ93bT310 OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
                "Protocol Timer T310, specified in milliseconds."
        ::= { lportAtmSvcConfigEntry 7 }

lportAtmSvcConfigQ93bT313 OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
                "Protocol Timer T313, specified in milliseconds."
        ::= { lportAtmSvcConfigEntry 8 }

lportAtmSvcConfigQ93bT316 OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
                "Protocol Timer T316, specified in milliseconds."
        ::= { lportAtmSvcConfigEntry 9 }

lportAtmSvcConfigQ93bT322 OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
                "Protocol Timer T322, specified in milliseconds."
        ::= { lportAtmSvcConfigEntry 10 }

lportAtmSvcConfigQ93bT398 OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
                "Protocol Timer T398, specified in milliseconds."
        ::= { lportAtmSvcConfigEntry 11 }

lportAtmSvcConfigQ93bT399 OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
                "Protocol Timer T399, specified in milliseconds."
        ::= { lportAtmSvcConfigEntry 12 }

lportAtmSvcConfigQSaalMaxCC OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
                "The maximum number of unacknowledged transmitted control
                 PDU's before declaring a loss of connection."
        ::= { lportAtmSvcConfigEntry 13 }

lportAtmSvcConfigQSaalMaxPD OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
                "The maximum number of PDU's transmitted before a POLL
                PDU is transmitted."
        ::= { lportAtmSvcConfigEntry 14 }

lportAtmSvcConfigQSaalMaxStat OBJECT-TYPE
        SYNTAX Integer32 (1..67)
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
                "The maximum number of list elements in a STAT PDU."
        ::= { lportAtmSvcConfigEntry 15 }

lportAtmSvcConfigQSaalTPoll OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
                "The protocol timer corresponding to the polling function,
                 specified in milliseconds."
        ::= { lportAtmSvcConfigEntry 16 }

lportAtmSvcConfigQSaalTKeepalive OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
```

```
                "The protocol timer corresponding to the keepalive
                function, specified in milliseconds."
        ::= { lportAtmSvcConfigEntry 17 }

lportAtmSvcConfigQSaalTNoResponse OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
                "The protocol timer corresponding to the response timeout
                function, specified in milliseconds."
        ::= { lportAtmSvcConfigEntry 18 }

lportAtmSvcConfigQSaalTCC OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
                "The protocol timer corresponding to the transmission of
                 control PDU's, specified in milliseconds."
        ::= { lportAtmSvcConfigEntry 19 }

lportAtmSvcConfigQSaalTIdle OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
                "The protocol timer corresponding to the idle function for
                 UNI 3.1, only, specified in milliseconds."
        ::= { lportAtmSvcConfigEntry 20 }

lportAtmSvcConfigRowStatus OBJECT-TYPE
        SYNTAX  RowStatus
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
        "Row status active(1) - Row is currently usable.
         notInService(2) - Row has been created and initialized but not
         made active by client.
         notReady(3) - Row has been created but contains ‘holes’, waiting
         for client to finish.
         createAndGo(4) - Not supported.
         createAndWait(5) - Create new row.
         destroy(6) - Delete an existing row."
        ::= { lportAtmSvcConfigEntry 21 }

lportAtmSvcConfigModifyType OBJECT-TYPE
        SYNTAX  INTEGER { normal(1), dbOnly(4), dbOnlySetOutOfSync(5) }
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
        "By default, writes are stored to the database and the switch.
        Set this to dbOnly to send writes only to the database.
        dbOnlySetOutOfSync sends writes to the database and sets the
        Out of Sync flag in the database.
        This value is re-set to normal after every transaction."
        DEFVAL {normal}
        ::= { lportAtmSvcConfigEntry 22 }
```

lportSmdsTable

```
-- lportSmdsTable - contains instances of Lport objects consisting of
-- SMDS attributes.
--

lportSmdsTable OBJECT-TYPE
    SYNTAX SEQUENCE OF LportSmdsEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION  "List of Lport entries containing SMDS attributes."
    ::= { lportConfiguration 4 }

lportSmdsEntry OBJECT-TYPE
    SYNTAX LportSmdsEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
           "Group of ATM attributes."
    INDEX  {switchIdIndex , lportIfIndex }
    ::= { lportSmdsTable 1 }

LportSmdsEntry ::=
  SEQUENCE {
    lportSmdsSmdsType
        INTEGER,
    lportSmdsSupportHeartBeatPoll
        INTEGER,
    lportSmdsHeartBeatPollInterval
        Integer32,
    lportSmdsHeartBeatPollINaThreshold
        Integer32,
    lportSmdsProtocolErrorChecking
        INTEGER,
    lportSmdsSmdsPduViolTcaFlag
        INTEGER,
    lportSmdsSmdsPduViolThresh
        Integer32,
    lportSmdsSsiLportIpAddress
        IpAddress,
    lportSmdsSsiLportIfIndex
        Integer32,
    lportSmdsPduViolThresh
        Integer32,
    lportSmdsRowStatus
        RowStatus,
    lportSmdsModifyType
        INTEGER
}
```

```
lportSmdsSmdsType OBJECT-TYPE
    SYNTAX INTEGER {
      ssiDte(1),
      dxiSniDce(2),
      dxiSniDte(3),
      optimumTrunk(4),
      mgmtTrunk(5)
    }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "SMDS Connection Type (valid only if SMDS)"
    ::= { lportSmdsEntry 1}

lportSmdsSupportHeartBeatPoll OBJECT-TYPE
    SYNTAX INTEGER {
      off(1),
      on(2)
    }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "Indicates whether this lport supports a heart beat poll"
    ::= { lportSmdsEntry 2}

lportSmdsHeartBeatPollInterval OBJECT-TYPE
    SYNTAX Integer32 (1..40)
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "If heart beat poll is turned on, how long to wait
    between polls (in seconds)"
    ::= { lportSmdsEntry 3}


lportSmdsHeartBeatPollINaThreshold OBJECT-TYPE
    SYNTAX Integer32 (1..255)
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "How long to wait for a poll to be acknowledged before
    the link is considered down"
    ::= { lportSmdsEntry 4}

lportSmdsProtocolErrorChecking OBJECT-TYPE
    SYNTAX INTEGER {
      off(1),
      on(2)
    }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "Whether this lport supports SMDS protocol error checking"
    ::= { lportSmdsEntry 5}

lportSmdsSmdsPduViolTcaFlag OBJECT-TYPE
        SYNTAX INTEGER {
                        disabled (1),
                        enabled  (2)
                        }
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
        "This object defines the ability to enable and disable SMDS
         pdu violation traps on this logical port. This functionality
        applies to the following logical port types:
                SMDS DXI/SNI DCE
                SMDS DXI/SNI DTE
                SMDS SSI DTE
                SMDS Optimum Trunk
                Direct Line Trunk
         The default value of this object is 'disabled'.
                "
        ::= {lportSmdsEntry 6}

lportSmdsSmdsPduViolThresh OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
                "This object defines the Smds pdu violation threshold for
                this logical port. The allowable range of threshold
                values is 1-255. The default value of this object is '10'.
                "
        ::= { lportSmdsEntry 7 }

lportSmdsSsiLportIpAddress OBJECT-TYPE
        SYNTAX  IpAddress
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
                "Ip Address of the SSI Lport for SMDS DXI SNI DCE Lports."
        ::= { lportSmdsEntry 8}

lportSmdsSsiLportIfIndex OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
                "ifIndex of the SSI Lport for SMDS DXI SNI DCE Lports."
        ::= { lportSmdsEntry 9}

lportSmdsPduViolThresh OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
                "SMDS PDU violation threshold"
        ::= { lportSmdsEntry 11}

lportSmdsRowStatus OBJECT-TYPE
        SYNTAX  RowStatus
```

```
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
        "Row status active(1) - Row is currently usable.
         notInService(2) - Row has been created and initialized but not
         made active by client.
         notReady(3) - Row has been created but contains 'holes', waiting
         for client to finish.
         createAndGo(4) - Not supported.
         createAndWait(5) - Create new row.
         destroy(6) - Delete an existing row."
        ::= { lportSmdsEntry 12 }

lportSmdsModifyType OBJECT-TYPE
        SYNTAX  INTEGER { normal(1), dbOnly(4), dbOnlySetOutOfSync(5) }
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
        "By default, writes are stored to the database and the switch.
        Set this to dbOnly to send writes only to the database.
        dbOnlySetOutOfSync sends writes to the database and sets the
        Out of Sync flag in the database.
        This value is re-set to normal after every transaction."
        DEFVAL {normal}
        ::= { lportSmdsEntry 13 }
```

lportSvcSecurityScreenActionTable

```
-- lportSvcSecurityScreenActionTable - contains information pertaining to
-- Svc security screen actions of an lport
--

lportSvcSecurityScreenActionTable OBJECT-TYPE
        SYNTAX SEQUENCE OF LportSvcSecurityScreenActionEntry
        MAX-ACCESS not-accessible
        STATUS current
        DESCRIPTION
                " List of lport's svc security screen action attributes"
        ::= { lportConfiguration 9}

lportSvcSecurityScreenActionEntry OBJECT-TYPE
        SYNTAX LportSvcSecurityScreenActionEntry
        MAX-ACCESS not-accessible
        STATUS current
        DESCRIPTION
                " entry for lport's svc security screen action attributes"

        INDEX { switchIdIndex , lportIfIndex }
        ::= { lportSvcSecurityScreenActionTable 1}

LportSvcSecurityScreenActionEntry ::=
        SEQUENCE {
                lportSvcSecurityScreenActionIngressScreenMode
                        INTEGER,
                lportSvcSecurityScreenActionEgressScreenMode
                        INTEGER,
                lportSvcSecurityScreenActionDefaultIngressScreenType
                        INTEGER,
                lportSvcSecurityScreenActionDefaultEgressScreenType
                        INTEGER,
                lportSvcSecurityScreenActionRowStatus
                        RowStatus,
                lportSvcSecurityScreenActionModifyType
                        INTEGER

        }

lportSvcSecurityScreenActionIngressScreenMode OBJECT-TYPE
        SYNTAX INTEGER {
                allScreens(1),
                defaultScreen(2)
        }
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
                "objects specifying whether all screens or only
                default screen are use for the svc screening on
                incoming calls"
        ::= {lportSvcSecurityScreenActionEntry 1}

lportSvcSecurityScreenActionEgressScreenMode OBJECT-TYPE
        SYNTAX INTEGER {
                allScreens(1),
                defaultScreen(2)
        }
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
                "object specifying whether all screens or only
                default screen are use for the svc screening on
                outgoing calls"
        ::= { lportSvcSecurityScreenActionEntry 2}

lportSvcSecurityScreenActionDefaultIngressScreenType OBJECT-TYPE
        SYNTAX INTEGER {
                pass(1),
                block(2)
        }
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
                "object specifying the default action for
                ingress screen"
        ::= { lportSvcSecurityScreenActionEntry 3}

lportSvcSecurityScreenActionDefaultEgressScreenType OBJECT-TYPE
        SYNTAX INTEGER {
                pass(1),
```

```
                block(2)
        }
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
                "object specifying the default action for
                egress screen"
        ::= { lportSvcSecurityScreenActionEntry 4}

lportSvcSecurityScreenActionRowStatus OBJECT-TYPE
        SYNTAX  RowStatus
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
        "Row status active(1) - Row is currently usable.
         notInService(2) - Row has been created and initialized but not
         made active by client.
         notReady(3)-Row has been created but contains 'holes', waiting
         for client to finish.
         reateAndGo(4) - Not supported.
         createAndWait(5) - Not supported. Row is populated in lport
         creation.
         destroy(6) - Not supported. Row is deleted when in lport
         deletion."
        ::= { lportSvcSecurityScreenActionEntry 5 }

lportSvcSecurityScreenActionModifyType OBJECT-TYPE
        SYNTAX  INTEGER { normal(1), dbOnly(4), dbOnlySetOutOfSync(5) }
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
        "By default, writes are stored to the database and the switch.
        Set this to dbOnly to send writes only to the database.
        dbOnlySetOutOfSync sends writes to the database and sets the
        Out of Sync flag in the database.
        This value is re-set to normal after every transaction."
        DEFVAL {normal}
    ::= { lportSvcSecurityScreenActionEntry 6 }
```

Switch Table

```
-- Switch table - contains information pertaining to the managed switch
-- node.
--

switchTable OBJECT-TYPE
    SYNTAX SEQUENCE OF SwitchEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
           "Table of configurable information about the switch"
    ::= { node 1 }

switchEntry OBJECT-TYPE
    SYNTAX SwitchEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
           "Entry of configurable information about the switch"
    INDEX  { switchIdIndex }
    ::= { switchTable 1 }

SwitchEntry ::=
  SEQUENCE {
     switchName
        DisplayString,
     switchType
        INTEGER,
     switchLocation
        DisplayString,
     switchPhoneNumber
        DisplayString,
     switchContact
        DisplayString,
     switchRerouteDelay
        Integer32,
     switchRerouteCount
        Integer32,
     switchTelnetSessionState
        INTEGER,
     switchConsoleIdleTimeout
        Integer32,
     switchSendHostRoutes
        INTEGER ,
     switchEthernetIpMask
        IpAddress,
     switchEthernetIpAddress
        IpAddress,
     switchRipState
        INTEGER,
     switchLoadBalancingAlgorithm
        INTEGER,
      switchRowStatus
        RowStatus,
     switchModifyType
        INTEGER,
      switchSwRev
        DisplayString
  }

switchName OBJECT-TYPE
    SYNTAX DisplayString
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION "Name assigned to switch."
    ::= {switchEntry 1}

switchType OBJECT-TYPE
```

```
        SYNTAX INTEGER {
                stdx3000 (1),
                stdx6000 (2),
                stdx9000 (3),
                stdx8000 (4),
                cbx500 (8)
                }
        MAX-ACCESS read-only
        STATUS current
        DESCRIPTION
        " switch type"
    ::= { switchEntry 2 }

switchLocation OBJECT-TYPE
    SYNTAX DisplayString
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "Physical Location of the switch."
    ::= {switchEntry 3}

switchPhoneNumber OBJECT-TYPE
    SYNTAX DisplayString
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "Contact phone number."
    ::= {switchEntry 4}

switchContact OBJECT-TYPE
    SYNTAX DisplayString
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "Contact person for this switch."
    ::= {switchEntry 5}

switchRerouteDelay OBJECT-TYPE
    SYNTAX Integer32 (1..32767)
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "Represents the rate (in seconds) at
                 which each card polls the VCs for a better route."
    ::= {switchEntry 6}

switchRerouteCount OBJECT-TYPE
    SYNTAX Integer32 (1..64)
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "The number of circuits that can
                 issue reroute requests in a single batch."
    ::= {switchEntry 7}

switchTelnetSessionState OBJECT-TYPE
    SYNTAX INTEGER { disable(1),
                     enable(3) }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "Remote telnet session enabled/disabled, for
                 troubleshooting"
    ::= {switchEntry 8}

switchConsoleIdleTimeout OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "Console Timeout Value, auto logoff."
    ::= {switchEntry 9}

switchSendHostRoutes OBJECT-TYPE
    SYNTAX INTEGER { off(1),
                     on(2) }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "Enable/disable ability to send routes to gateway switch."
    ::= {switchEntry 10}

switchEthernetIpMask OBJECT-TYPE
    SYNTAX IpAddress
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "IP routing mask."
    ::= {switchEntry 11}

switchEthernetIpAddress OBJECT-TYPE
    SYNTAX IpAddress
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "IP address of switch."
    ::= {switchEntry 12}

switchRipState OBJECT-TYPE
    SYNTAX INTEGER { off(1),
                     on(2) }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "Gateway RIP protocol enabled/disabled."
    ::= {switchEntry 13}

switchLoadBalancingAlgorithm OBJECT-TYPE
    SYNTAX INTEGER { negpos(1),
                     negneg(2),
                     pospos(3),
                     disabled(4) }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "Allow switch to route circuit to path that allows
                 more bandwidth."
    ::= {switchEntry 14}

switchRowStatus OBJECT-TYPE
```

```
SYNTAX RowStatus
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
             "Row status active(1) - Row is currently usable.
              notInService(2) - Row has been created and initialized but
              not made active by client.
              notReady(3) - Not supported.
              createAndGo(4) - Not supported.
              createAndWait(5) - Not supported.
              destroy(6) - Not supported."
    ::= { switchEntry 15 }

switchModifyType OBJECT-TYPE
        SYNTAX  INTEGER { normal(1), dbOnly(4), dbOnlySetOutOfSync(5) }
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
        "By default, writes are stored to the database and the switch.
        Set this to dbOnly to send writes only to the database.
        dbOnlySetOutOfSync sends
        writes to the database and sets the Out of Sync flag in the
        database.
        This value is re-set to normal after every transaction."
        DEFVAL {normal}
    ::= { switchEntry 16 }

switchSwRev OBJECT-TYPE
        SYNTAX DisplayString
        MAX-ACCESS read-only
        STATUS current
        DESCRIPTION
        " switch software revision"
        ::= { switchEntry 17 }
```

ATM Billing Table

```
-- ATM billing table for 500 switch

switchAtmBillingTable OBJECT-TYPE
    SYNTAX SEQUENCE OF SwitchAtmBillingEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
           "Table of configurable billing information about the 500
           switch ATM"
    ::= { node 2 }

switchAtmBillingEntry OBJECT-TYPE
    SYNTAX SwitchAtmBillingEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
           "Entry of configurable information about the 500 switch"
    INDEX  { switchIdIndex }
    ::= { switchAtmBillingTable 1 }

SwitchAtmBillingEntry ::=
    SEQUENCE {
      switchAtmBillingServerPrimaryIp
        IpAddress,
      switchAtmBillingServerSecondaryIp
        IpAddress,
      switchAtmBillingServerControl
        INTEGER,
      switchAtmBillingAcctControl
        INTEGER,
      switchAtmBillingAbrRecording
        INTEGER,
      switchAtmBillingCbrRecording
        INTEGER,
      switchAtmBillingUbrRecording
        INTEGER,
      switchAtmBillingVbrRecording
        INTEGER,
      switchAtmBillingCbrCellCounting
        INTEGER,
      switchAtmBillingOamCellCounting
        INTEGER,
      switchAtmBillingRecordingUpdtInterval
        Integer32,
      switchAtmBillingPvcRecordingPeriod
        Integer32,
      switchAtmBillingRowStatus
        RowStatus,
      switchAtmBillingModifyType
        INTEGER
        }

switchAtmBillingServerPrimaryIp OBJECT-TYPE
    SYNTAX IpAddress
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION "Applies to ATM 500 switch only."
    ::= {switchAtmBillingEntry 1}

switchAtmBillingServerSecondaryIp OBJECT-TYPE
    SYNTAX IpAddress
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION "Applies to ATM 500 switch only."
    ::= {switchAtmBillingEntry 2}

switchAtmBillingServerControl OBJECT-TYPE
    SYNTAX INTEGER { primary (1), secondary (2) }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "Applies to ATM 500 switch only."
```

```
    DEFVAL { primary }
    ::= {switchAtmBillingEntry 3}

switchAtmBillingAcctControl OBJECT-TYPE
    SYNTAX INTEGER { disabled (1), pvcEnabled (2), scvEnabled (3),
    enabled (4) }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "Applies to ATM 500 switch only."
    DEFVAL { disabled }
    ::= {switchAtmBillingEntry 4}

switchAtmBillingAbrRecording OBJECT-TYPE
    SYNTAX INTEGER { disabled (1), enabled (3) }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "Applies to ATM 500 switch only."
    DEFVAL { enabled }
    ::= {switchAtmBillingEntry 5}

switchAtmBillingCbrRecording OBJECT-TYPE
    SYNTAX INTEGER { disabled (1), enabled (3) }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "Applies to ATM 500 switch only."
    DEFVAL { enabled }
    ::= {switchAtmBillingEntry 6}

switchAtmBillingUbrRecording OBJECT-TYPE
    SYNTAX INTEGER { disabled (1), enabled (3) }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "Applies to ATM 500 switch only."
    DEFVAL { enabled }
    ::= {switchAtmBillingEntry 7}

switchAtmBillingVbrRecording OBJECT-TYPE
    SYNTAX INTEGER { disabled (1), enabled (3) }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "Applies to ATM 500 switch only."
    DEFVAL { enabled }
    ::= {switchAtmBillingEntry 8}

switchAtmBillingCbrCellCounting OBJECT-TYPE
    SYNTAX INTEGER { disabled (1), enabled (3) }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "Applies to ATM 500 switch only."
    DEFVAL { enabled }
    ::= {switchAtmBillingEntry 9}

switchAtmBillingOamCellCounting OBJECT-TYPE
    SYNTAX INTEGER { disabled (1), enabled (2) }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "Applies to ATM 500 switch only."
    DEFVAL { enabled }
    ::= {switchAtmBillingEntry 10}

switchAtmBillingRecordingUpdtInterval  OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "Applies to ATM 500 switch only."
    DEFVAL {5}
     ::= {switchAtmBillingEntry 11}

switchAtmBillingPvcRecordingPeriod OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "Applies to ATM 500 switch only."
    DEFVAL {60}
     ::= {switchAtmBillingEntry 12}

switchAtmBillingRowStatus OBJECT-TYPE
    SYNTAX RowStatus
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
               "Row status active(1) - Row is currently usable.
                notInService(2) - Row has been created and initialized
                but not made active by client.
                notReady(3) - Not supported.
                createAndGo(4) - Not supported.
                createAndWait(5) - Not supported.
                destroy(6) - Not supported."
    ::= {switchAtmBillingEntry  13 }

switchAtmBillingModifyType OBJECT-TYPE
        SYNTAX  INTEGER { normal(1), dbOnly(4), dbOnlySetOutOfSync(5) }
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
        "By default, writes are stored to the database and the switch.
        Set this to dbOnly to send writes only to the database.
        dbOnlySetOutOfSync sends
        writes to the database and sets the Out of Sync flag in the
        database.
        This value is re-set to normal after every transaction."
        DEFVAL {normal}
    ::= { switchAtmBillingEntry 14 }
```

Network CAC Table

```
-- network CAC parameters
```

```
networkCACTable OBJECT-TYPE
    SYNTAX SEQUENCE OF NetworkCACEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
           "CAC information for the network"
    ::= { network 3 }

networkCACEntry  OBJECT-TYPE
    SYNTAX NetworkCACEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
           "CAC attributes for a network."
    INDEX  { networkIdIndex }
    ::= { networkCACTable 1 }

NetworkCACEntry ::=
  SEQUENCE {
      networkCACType
        INTEGER,
      networkCACVbrRealTime
        Integer32,
      networkCACVbrNonRealTime
        Integer32,
      networkCACCbrCdv
        Integer32,
      networkCACCbrAlpha
        Integer32,
      networkCACVbrRTCdv
        Integer32,
      networkCACVbrRTAlpha
        Integer32,
      networkCACPortScaleFactorOC3
        Integer32,
      networkCACPortScaleFactorDS3
        Integer32,
      networkCACPortScaleFactorE3
        Integer32,
      networkCACPortScaleFactorT1
        Integer32,
      networkCACPortScaleFactorOC12
        Integer32,
      networkCACUpperLimit1
        Integer32,
      networkCACScaleFactor1
        Integer32,
      networkCACMaxMbs1
        Integer32,
      networkCACUpperLimit2
        Integer32,
      networkCACScaleFactor2
        Integer32,
      networkCACMaxMbs2
        Integer32,
      networkCACUpperLimit3
        Integer32,
      networkCACScaleFactor3
        Integer32,
      networkCACMaxMbs3
        Integer32,
      networkCACUpperLimit4
        Integer32,
      networkCACScaleFactor4
        Integer32,
      networkCACMaxMbs4
        Integer32,
      networkCACUpperLimit5
        Integer32,
      networkCACScaleFactor5
        Integer32,
      networkCACMaxMbs5
        Integer32,
      networkCACUpperLimit6
        Integer32,
      networkCACScaleFactor6
        Integer32,
      networkCACMaxMbs6
        Integer32,
      networkCACUpperLimit7
        Integer32,
      networkCACScaleFactor7
        Integer32,
      networkCACMaxMbs7
        Integer32,
      networkCACUpperLimit8
        Integer32,
      networkCACScaleFactor8
        Integer32,
      networkCACMaxMbs8
        Integer32,
      networkCACUpperLimit9
        Integer32,
      networkCACScaleFactor9
        Integer32,
      networkCACMaxMbs9
        Integer32,
      networkCACUpperLimit10
        Integer32,
      networkCACScaleFactor10
        Integer32,
      networkCACMaxMbs10
        Integer32,
      networkCACRowStatus
        RowStatus,
      networkCACModifyType
        INTEGER
  }
```

```
networkCACType OBJECT-TYPE
        SYNTAX  INTEGER {
                cascade (1),
                customizeVbrRtNrtAbr (2),
                customizeVbrNrtAbr(3)
        }
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
            " The CAC (Connection Admission Control) algorithm can be set
             to either of 2 algorithms:
                   1. The Cascade default algorithm.
                   2. A custom CAC algorithm where the bandwidth of both
                      VBRrt and VBRnrt circuits is customized."
        ::= { networkCACEntry  1}

networkCACVbrRealTime OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION "VBR Real Time Cascade cell loss ratio objective "
        DEFVAL {9}
        ::= { networkCACEntry  2}

networkCACVbrNonRealTime OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION "VBR Non-Real Time Cascade cell loss ratio objective
        "
        DEFVAL {6}
        ::= { networkCACEntry  3}

networkCACCbrCdv OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION "The Cell delay variation objective (in microseconds)
        for QoSclass1 (CBR) used by the Cascade default CAC. "
        DEFVAL {250}
        ::= { networkCACEntry  4}

networkCACCbrAlpha OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION "The fraction of QoSClass1 (CBR) cells that can
        exceed the CDV objective  used by the Cascade default CAC.
        A value of x indicates that only 1E-x of the Cells can exceed the
        specified CDV objective "
        DEFVAL {7}
        ::= { networkCACEntry  5}

networkCACVbrRTCdv OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION "The Cell delay variation objective (in microseconds)
        for QoSclass2 (VBRrt) used by the Cascade default CAC. "
        DEFVAL {250}
        ::= { networkCACEntry  6}

networkCACVbrRTAlpha OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION "The fraction of QoSClass2 (VBRrt) cells that can
        exceed the CDV objective  used by the Cascade default CAC.
        A value of x indicates that only 1E-x of the Cells can exceed the
        specified CDV objective "
        DEFVAL {7}
        ::= { networkCACEntry  7}

networkCACPortScaleFactorOC3 OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
        "OC3 port Scale factor used by the customized CAC. The actual
         scale factor used is this value divided by 100 "
        DEFVAL {100}
        ::= { networkCACEntry  8}

networkCACPortScaleFactorDS3 OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
        "DS3 port Scale factor used by the customized CAC. The actual
         scale factor used is this value divided by 100 "
        DEFVAL {100}
        ::= { networkCACEntry  9}

networkCACPortScaleFactorE3 OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
        "E3 port Scale factor used by the customized CAC. The actual
         scale factor used is this value divided by 100 "
        DEFVAL {100}
        ::= { networkCACEntry  10}

networkCACPortScaleFactorT1 OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS read-write
        STATUS current
```

```
        DESCRIPTION
        "T1 port Scale factor used by the customized CAC. The actual
        scale factor used is this value divided by 100"
        DEFVAL {100}
        ::= { networkCACEntry  11}

networkCACPortScaleFactorOC12 OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
        "OC12 port Scale factor used by the customized CAC. The actual
         scale factor used is this value divided by 100 "
        DEFVAL {100}
        ::= { networkCACEntry  12}

networkCACUpperLimit1 OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
        "Upper Limit of SCR range used by the customized CAC."
        DEFVAL {0}
        ::= { networkCACEntry  13}

networkCACScaleFactor1 OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
        "The SCR Scale factor used by the customized CAC. The actual
         scale factor used is formed by dividing over 100 to account
         for lack of float definitions in MIBs"
        DEFVAL {100}
        ::= { networkCACEntry  14}

networkCACMaxMbs1 OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
        "The Maximum MBS supported under the customized CAC. A maximum
         MBS value is configured for each range of SCR values. When
         a VC is being set-up, this value is compared to the VC's MBS.
         If the VC's MBS is higher, the circuit is rejected."
        DEFVAL {0}
        ::= { networkCACEntry  15}

networkCACUpperLimit2 OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
        "Upper Limit of SCR range used by the customized CAC."
        DEFVAL {0}
        ::= { networkCACEntry  16}

networkCACScaleFactor2 OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
        "The SCR Scale factor used by the customized CAC. The actual
        scale factor used is formed by dividing over 100 to account
        for lack of float definitions in MIBs"
        DEFVAL {100}
        ::= { networkCACEntry  17}

networkCACMaxMbs2 OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
        "The Maximum MBS supported under the customized CAC. A maximum
         MBS value is configured for each range of SCR values. When
         a VC is being set-up, this value is compared to the VC's MBS.
         If the VC's MBS is higher, the circuit is rejected."
        DEFVAL {0}
        ::= { networkCACEntry  18}

networkCACUpperLimit3 OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
        "Upper Limit of SCR range used by the customized CAC."
        DEFVAL {0}
        ::= { networkCACEntry  19}

networkCACScaleFactor3 OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
        "The SCR Scale factor used by the customized CAC. The actual
         scale factor used is formed by dividing over 100 to account
         for lack of float definitions in MIBs"
        DEFVAL {100}
        ::= { networkCACEntry  20}

networkCACMaxMbs3 OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
        "The Maximum MBS supported under the customized CAC. A maximum
         MBS value is configured for each range of SCR values. When
         a VC is being set-up, this value is compared to the VC's MBS.
```

```
         If the VC's MBS is higher, the circuit is rejected."
        DEFVAL {0}
        ::= { networkCACEntry  21}

networkCACUpperLimit4 OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
        "Upper Limit of SCR range used by the customized CAC."
        DEFVAL {0}
        ::= { networkCACEntry  22}

networkCACScaleFactor4 OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
        "The SCR Scale factor used by the customized CAC. The actual
         scale factor used is formed by dividing over 100 to account
         for lack of float definitions in MIBs"
        DEFVAL {100}
        ::= { networkCACEntry  23}

networkCACMaxMbs4 OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
        "The Maximum MBS supported under the customized CAC. A maximum
         MBS value is configured for each range of SCR values. When
         a VC is being set-up, this value is compared to the VC's MBS.
         If the VC's MBS is higher, the circuit is rejected."
        DEFVAL {0}
        ::= { networkCACEntry  24}

networkCACUpperLimit5 OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
        "Upper Limit of SCR range used by the customized CAC."
        DEFVAL {0}
        ::= { networkCACEntry  25}

networkCACScaleFactor5 OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
        "The SCR Scale factor used by the customized CAC. The actual
         scale factor used is formed by dividing over 100 to account
         for lack of float definitions in MIBs"
        DEFVAL {100}
        ::= { networkCACEntry  26}

networkCACMaxMbs5 OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
        "The Maximum MBS supported under the customized CAC. A maximum
         MBS value is configured for each range of SCR values. When
         a VC is being set-up, this value is compared to the VC's MBS.
         If the VC's MBS is higher, the circuit is rejected."
        DEFVAL {0}
        ::= { networkCACEntry  27}

networkCACUpperLimit6 OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
        "Upper Limit of SCR range used by the customized CAC."
        DEFVAL {0}
        ::= { networkCACEntry  28}

networkCACScaleFactor6 OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
        "The SCR Scale factor used by the customized CAC. The actual
         scale factor used is formed by dividing over 100 to account
         for lack of float definitions in MIBs"
        DEFVAL {100}
        ::= { networkCACEntry  29}

networkCACMaxMbs6 OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
        "The Maximum MBS supported under the customized CAC. A maximum
        MBS value is configured for each range of SCR values. When
        a VC is being set-up, this value is compared to the VC's MBS.
        If the VC's MBS is higher, the circuit is rejected."
        DEFVAL {0}
        ::= { networkCACEntry  30}

networkCACUpperLimit7 OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
        "Upper Limit of SCR range used by the customized CAC."
        DEFVAL {0}
        ::= { networkCACEntry  31}
```

```
networkCACScaleFactor7 OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
        "The SCR Scale factor used by the customized CAC. The actual
         scale factor used is formed by dividing over 100 to account
         for lack of float definitions in MIBs"
        DEFVAL {100}
        ::= { networkCACEntry  32}

networkCACMaxMbs7 OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
        "The Maximum MBS supported under the customized CAC. A maximum
         MBS value is configured for each range of SCR values. When
         a VC is being set-up, this value is compared to the VC's MBS.
         If the VC's MBS is higher, the circuit is rejected."
        DEFVAL {0}
        ::= { networkCACEntry  33}

networkCACUpperLimit8 OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
        "Upper Limit of SCR range used by the customized CAC."
        DEFVAL {0}
        ::= { networkCACEntry  34}

networkCACScaleFactor8 OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
        "The SCR Scale factor used by the customized CAC. The actual
         scale factor used is formed by dividing over 100 to account
          for lack of float definitions in MIBs"
        DEFVAL {100}
        ::= { networkCACEntry  35}

networkCACMaxMbs8 OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
        "The Maximum MBS supported under the customized CAC. A maximum
         MBS value is configured for each range of SCR values. When
         a VC is being set-up, this value is compared to the VC's MBS.
         If the VC's MBS is higher, the circuit is rejected."
        DEFVAL {0}
        ::= { networkCACEntry  36}

networkCACUpperLimit9 OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
        "Upper Limit of SCR range used by the customized CAC."
        DEFVAL {0}
        ::= { networkCACEntry  37}

networkCACScaleFactor9 OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
        "The SCR Scale factor used by the customized CAC. The actual
         scale factor used is formed by dividing over 100 to account
         for lack of float definitions in MIBs"
        DEFVAL {100}
        ::= { networkCACEntry  38}

networkCACMaxMbs9 OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
        "The Maximum MBS supported under the customized CAC. A maximum
         MBS value is configured for each range of SCR values. When
         a VC is being set-up, this value is compared to the VC's MBS.
         If the VC's MBS is higher, the circuit is rejected."
        DEFVAL {0}
        ::= { networkCACEntry  39}

networkCACUpperLimit10 OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
         "Upper Limit of SCR range used by the customized CAC."
        DEFVAL {0}
        ::= { networkCACEntry  40}

networkCACScaleFactor10 OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
        "The SCR Scale factor used by the customized CAC. The actual
         scale factor used is formed by dividing over 100 to account
         for lack of float definitions in MIBs"
        DEFVAL {100}
        ::= { networkCACEntry  41}
```

```
networkCACMaxMbs10 OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
        "The Maximum MBS supported under the customized CAC. A maximum
         MBS value is configured for each range of SCR values. When
         a VC is being set-up, this value is compared to the VC's MBS.
         If the VC's MBS is higher, the circuit is rejected."
        DEFVAL {0}
        ::= { networkCACEntry  42}

networkCACRowStatus  OBJECT-TYPE
        SYNTAX RowStatus
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
               "Row status active(1) - Row is currently usable.
                notInService(2) - Row has been created and initialized
                but not made active by client.
                notReady(3) - Row has been created but contains 'holes',
                waiting for client to finish.
                createAndGo(4) - Not supported.
                createAndWait(5) - Create new row.
                destroy(6) - Delete an existing row."
        ::= { networkCACEntry  43}

networkCACModifyType  OBJECT-TYPE
        SYNTAX  INTEGER { normal(1), dbOnly(4), dbOnlySetOutOfSync(5) }
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
        "By default, writes are stored to the database and the switch.
        Set this to dbOnly to send writes only to the database.
        dbOnlySetOutOfSync sends writes to the database and sets the
        Out of Sync flag in the database.
        This value is re-set to normal after every transaction."
        DEFVAL {normal}
        ::= { networkCACEntry  44}
```

Close User Group Table

```
-- Close User Group Table -contains information pertaining to the CUG
--

networkCUGTable OBJECT-TYPE
        SYNTAX  SEQUENCE OF NetworkCUGEntry
        MAX-ACCESS not-accessible
        STATUS current
        DESCRIPTION
           "Contains Closed User Groups in a network."
        ::= { network 6 }

networkCUGEntry OBJECT-TYPE
        SYNTAX NetworkCUGEntry
        MAX-ACCESS not-accessible
        STATUS current
        DESCRIPTION
           "Entry representing information about the CUG"
        INDEX {networkIdIndex, networkCUGNameIndex}
        ::= { networkCUGTable 1 }

NetworkCUGEntry ::=
        SEQUENCE {
                networkCUGRowStatus
                        RowStatus,
                networkCUGModifyType
                        INTEGER
        }

networkCUGRowStatus OBJECT-TYPE
    SYNTAX RowStatus
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
            "Row status active(1) - Row is currently usable.
             notInService(2) - Row has been created and initialized
             but not made active by client.
             notReady(3) - Row has been created but contains holes,
             waiting for client to finish.
             createAndGo(4) - Not supported.
             createAndWait(5) - Create new row.
             destroy(6) - Delete an existing row."
    ::= { networkCUGEntry 1 }

networkCUGModifyType OBJECT-TYPE
        SYNTAX  INTEGER { normal(1), dbOnly(4), dbOnlySetOutOfSync(5) }
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
        "By default, writes are stored to the database and the switch.
        Set this to dbOnly to send writes only to the database.
        dbOnlySetOutOfSync sends writes to the database and sets the
        Out of Sync flag in the database.
        This value is re-set to normal after every transaction."
        DEFVAL {normal}
        ::= { networkCUGEntry 2 }
```

Close User Group Member Rule Table

```
-- Close User Group Member Rule Table -contains information pertaining
-- to the CUG member rule
--

networkCUGMemberRuleTable OBJECT-TYPE
        SYNTAX  SEQUENCE OF NetworkCUGMemberRuleEntry
        MAX-ACCESS not-accessible
        STATUS current
```

```
        DESCRIPTION
           "Contains Closed User Groups member rules  in a network."
        ::= { network 8 }

networkCUGMemberRuleEntry OBJECT-TYPE
        SYNTAX NetworkCUGMemberRuleEntry
        MAX-ACCESS not-accessible
        STATUS current
        DESCRIPTION
           "Entry representing information about the CUGMemberRule"
        INDEX {networkIdIndex, networkCUGMemberRuleNameIndex}
        ::= { networkCUGMemberRuleTable 1 }

NetworkCUGMemberRuleEntry ::=
        SEQUENCE {
        networkCUGMemberRuleName
                DisplayString,
        networkCUGMemberRuleValue
                DisplayString,
        networkCUGMemberRuleMemberType
                INTEGER,
        networkCUGMemberRuleIncomingAccess
                INTEGER,
        networkCUGMemberRuleOutgoingAccess
                INTEGER,
        networkCUGMemberRuleRowStatus
                RowStatus,
        networkCUGMemberRuleModifyType
                INTEGER
        }

networkCUGMemberRuleName OBJECT-TYPE
        SYNTAX DisplayString
        MAX-ACCESS read-only
        STATUS current
        DESCRIPTION "string name of the CUG member rule"
        ::= {networkCUGMemberRuleEntry 1}

networkCUGMemberRuleValue OBJECT-TYPE
        SYNTAX DisplayString
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION "regular expression repsenting the  rule.
           The attribute cannot be modified after creation."
        ::= {networkCUGMemberRuleEntry 2}

networkCUGMemberRuleMemberType OBJECT-TYPE
        SYNTAX INTEGER {e164(1), aesa(2)}
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION "svc address type of the rule. The attribute cannot be
            modified after creation."
        ::= {networkCUGMemberRuleEntry 3}

networkCUGMemberRuleIncomingAccess OBJECT-TYPE
        SYNTAX INTEGER {no(1), yes(2)}
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION "whether or not allow incoming access"
        ::= {networkCUGMemberRuleEntry 4}

networkCUGMemberRuleOutgoingAccess OBJECT-TYPE
        SYNTAX INTEGER {no(1), yes(2)}
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION "whether or not allow outgoing access"
        ::= {networkCUGMemberRuleEntry 5}

networkCUGMemberRuleRowStatus OBJECT-TYPE
        SYNTAX RowStatus
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
           "Row status active(1) - Row is currently usable.
            notInService(2) - Row has been created and initialized but
            not made active by client.
            notReady(3) - Row has been created but contains 'holes',
            waiting for client to finish.
            createAndGo(4) - Not supported.
            createAndWait(5) - Create new row.
            destroy(6) - Delete an existing row."
            ::= { networkCUGMemberRuleEntry 6 }

networkCUGMemberRuleModifyType OBJECT-TYPE
        SYNTAX  INTEGER { normal(1), dbOnly(4), dbOnlySetOutOfSync(5) }
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
        "By default, writes are stored to the database and the switch.
        Set this to dbOnly to send writes only to the database.
        dbOnlySetOutOfSync sends writes to the database and sets the
        Out of Sync flag in the database.
        This value is re-set to normal after every transaction."
        DEFVAL {normal}
        ::= { networkCUGMemberRuleEntry 7 }
```

Close User Group Member Table

```
-- Close User Group Member Table -contains member rules associated with a
-- CUG
--

networkCUGMemberTable OBJECT-TYPE
        SYNTAX  SEQUENCE OF NetworkCUGMemberEntry
        MAX-ACCESS not-accessible
        STATUS current
        DESCRIPTION
           "Contains CUG rule members  in a CUG."
```

```
        ::= { network 9 }

networkCUGMemberEntry OBJECT-TYPE
        SYNTAX NetworkCUGMemberEntry
        MAX-ACCESS not-accessible
        STATUS current
        DESCRIPTION
           "Entry representing information about the CUGMember"
        INDEX {networkIdIndex, networkCUGNameIndex,
            networkCUGMemberRuleNameIndex}
        ::= { networkCUGMemberTable 1 }

NetworkCUGMemberEntry   ::=
        SEQUENCE {
        networkCUGMemberIncomingCallBar
                INTEGER,
        networkCUGMemberOutgoingCallBar
                INTEGER,
        networkCUGMemberRowStatus
                RowStatus,
        networkCUGMemberModifyType
                INTEGER
}

networkCUGMemberIncomingCallBar OBJECT-TYPE
        SYNTAX INTEGER {no(1), yes(2)}
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION "Incoming calls barred attribute"
        ::= {networkCUGMemberEntry 1}

networkCUGMemberOutgoingCallBar OBJECT-TYPE
        SYNTAX INTEGER {no(1), yes(2)}
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION "Outgoning calls barred attribute"
        ::= {networkCUGMemberEntry 2}

networkCUGMemberRowStatus OBJECT-TYPE
        SYNTAX RowStatus
            MAX-ACCESS read-write
            STATUS current
            DESCRIPTION
                "Row status active(1) - Row is currently usable.
                 notInService(2) - Row has been created and initialized
                 but not made active by client.
                 notReady(3) - Row has been created but contains holes,
                 waiting for client to finish.
                 createAndGo(4) - Not supported.
                 createAndWait(5) - Create new row.
                 destroy(6) - Delete an existing row."
            ::= { networkCUGMemberEntry 3 }

networkCUGMemberModifyType OBJECT-TYPE
        SYNTAX  INTEGER { normal(1), dbOnly(4), dbOnlySetOutOfSync(5) }
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
        "By default, writes are stored to the database and the switch.
        Set this to dbOnly to send writes only to the database.
        dbOnlySetOutOfSync sends writes to the database and sets the
        Out of Sync flag in the database.
        This value is re-set to normal after every transaction."
        DEFVAL {normal}
        ::= { networkCUGMemberEntry 4 }
```

Network SVC Security Screen Table

```
-- Network SVC Security Screen Table - contains information pertaining
-- to the Svc Security Screen
--

networkSvcSecurityScreenTable OBJECT-TYPE
        SYNTAX  SEQUENCE OF NetworkSvcSecurityScreenEntry
        MAX-ACCESS not-accessible
        STATUS current
        DESCRIPTION
           "Contains Svc Security Screens  in a network."
        ::= { network 10 }

networkSvcSecurityScreenEntry OBJECT-TYPE
        SYNTAX NetworkSvcSecurityScreenEntry
        MAX-ACCESS not-accessible
        STATUS current
        DESCRIPTION
           "Entry representing information about the SvcSecurityScreen"
        INDEX {networkIdIndex, networkSvcSecurityScreenNameIndex}
        ::= { networkSvcSecurityScreenTable 1 }

NetworkSvcSecurityScreenEntry   ::=
        SEQUENCE {
                networkSvcSecurityScreenId
                        Integer32,
                networkSvcSecurityScreenCallDirection
                        INTEGER,
                networkSvcSecurityScreenScreenType
                        INTEGER,
                networkSvcSecurityScreenCallingAddressType
                        INTEGER,
                networkSvcSecurityScreenCallingAddressAddress
                        OCTET STRING,
                networkSvcSecurityScreenCallingSubAddressType
                        INTEGER,
                networkSvcSecurityScreenCallingSubAddressAddress
                        OCTET STRING,
                networkSvcSecurityScreenCalledAddressType
                        INTEGER,
                networkSvcSecurityScreenCalledAddressAddress
```

```
                OCTET STRING,
            networkSvcSecurityScreenCalledSubAddressType
                INTEGER,
            networkSvcSecurityScreenCalledSubAddressAddress
                OCTET STRING,
            networkSvcSecurityScreenRowStatus
                RowStatus,
            networkSvcSecurityScreenModifyType
                INTEGER
    }
networkSvcSecurityScreenId OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
            " integer id for the screen, as known to switch"
    ::= { networkSvcSecurityScreenEntry 1}

networkSvcSecurityScreenCallDirection OBJECT-TYPE
    SYNTAX INTEGER {
            ingress(1), -- incoming call screen
            egresss(2) -- outgoing call screen
    }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
            " direction for the screen"
    ::= { networkSvcSecurityScreenEntry 2}

networkSvcSecurityScreenScreenType OBJECT-TYPE
    SYNTAX INTEGER {
            pass(1),
            block(2)
    }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
            " action to be taken on the call criteria for the screen"
    ::= { networkSvcSecurityScreenEntry 3}

networkSvcSecurityScreenCallingAddressType OBJECT-TYPE
    SYNTAX INTEGER {
            ignore(1),
            aesa(2),
            e164(4)
    }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
            "This object specifies the addressing format. Supported
             addressing formats are AESA, E.164. The screening can be
             disabled by setting it to ignore."
    ::= { networkSvcSecurityScreenEntry 4}

networkSvcSecurityScreenCallingAddressAddress OBJECT-TYPE
    SYNTAX OCTET STRING
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
            "This object specifies the calling party address to be
             used by the security screen for matching."

    ::= { networkSvcSecurityScreenEntry 5}

networkSvcSecurityScreenCallingSubAddressType OBJECT-TYPE
    SYNTAX INTEGER {
            ignore(1),
            aesa(2)
    }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
            "This object enables/disables the calling party
             subaddress screening. Supported addressing format is
             AESA."
    ::= { networkSvcSecurityScreenEntry 6}

networkSvcSecurityScreenCallingSubAddressAddress OBJECT-TYPE
    SYNTAX OCTET STRING
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
            "This object specifies the calling party subaddress to be
             used by the security screen for matching."

    ::= { networkSvcSecurityScreenEntry 7}

networkSvcSecurityScreenCalledAddressType OBJECT-TYPE
    SYNTAX INTEGER {
            ignore(1),
            aesa(2),
            e164(4)
    }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
    "This object specifies the addressing format. Supported
    addressing formats  are AESA, E.164. The screening can be
    disabled by setting it to ignore."
    ::= { networkSvcSecurityScreenEntry 8}

networkSvcSecurityScreenCalledAddressAddress OBJECT-TYPE
    SYNTAX OCTET STRING
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
    "This object specifies the called party address to be used by the
     security screen for matching."
```

```
        ::= { networkSvcSecurityScreenEntry 9}

networkSvcSecurityScreenCalledSubAddressType OBJECT-TYPE
        SYNTAX INTEGER {
                ignore(1),
                aesa(2)
        }
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
        "This object enables/disables the called party subaddress
         screening. Supported addressing format is AESA."
        ::= { networkSvcSecurityScreenEntry 10}

networkSvcSecurityScreenCalledSubAddressAddress OBJECT-TYPE
        SYNTAX OCTET STRING
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
        "This object specifies the called party subaddress to be used
         by the security screen for matching."

        ::= { networkSvcSecurityScreenEntry 11}

networkSvcSecurityScreenRowStatus OBJECT-TYPE
        SYNTAX RowStatus
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
        "Row status active(1) - Row is currently usable.
         notInService(2) - Row has been created and initialized but not
         made active by client.
         notReady(3) - Row has been created but contains 'holes', waiting
         for client to finish.
         createAndGo(4) - Not supported.
         createAndWait(5) - Create new row.
          destroy(6) - Delete an existing row."
    ::= { networkSvcSecurityScreenEntry 12 }

networkSvcSecurityScreenModifyType OBJECT-TYPE
        SYNTAX  INTEGER { normal(1), dbOnly(4), dbOnlySetOutOfSync(5) }
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
        "By default, writes are stored to the database and the switch.
        Set this to dbOnly to send writes only to the database.
        dbOnlySetOutOfSync sends writes to the database and sets the
        Out of Sync flag in the database.
        This value is re-set to normal after every transaction."
        DEFVAL {normal}
        ::= { networkSvcSecurityScreenEntry 13 }
```

Card Table

```
-- The Card Table - contains information pertaining to the card
-- objects resident on the managed switch nodes.
--

cardTable OBJECT-TYPE
    SYNTAX SEQUENCE OF CardEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
           "Table representing information about all cards in the network"
    ::= { card 1}

cardEntry OBJECT-TYPE
    SYNTAX CardEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
           "Entry representing information about one card"
    INDEX  { switchIdIndex, slotIdIndex }
    ::= { cardTable 1 }

CardEntry ::=
  SEQUENCE {
     cardDefinedType
        INTEGER,
     cardUioDefinedXface
        INTEGER,
     cardE1DefinedXface
        INTEGER,
     cardDsx1DefinedXface
        INTEGER,
     cardRedundSlotId
        Integer32,
     cardAdminStatus
        INTEGER,
     cardCapability
        INTEGER,
     cardExtClockSource
        INTEGER,
     cardAtmOc3Interface
        INTEGER,
     cardRowStatus
        RowStatus,
     cardModifyType
        INTEGER,
     cardAtmFcp
        INTEGER,
     cardCcrmProtocolId
        Integer32,
     cardBcmProtocolId
        Integer32,
     cardRmXmitInterval
```

```
        Integer32,
    cardIdleVcFactor
        Integer32,
    cardMultiDiscardThresh
        Integer32,
    cardIcrConst
        Integer32,
    cardMngVBRnrtTraffic
        INTEGER,
    cardStatsCapPeakClt
        INTEGER,
    cardStatsCapTotalClt
        INTEGER,
    cardStatsOperPeakClt
        INTEGER,
    cardStatsOperTotalClt
        INTEGER,
    cardStatsCltPeriod
        Integer32,
    cardPrimSysClockPort
        Integer32,
    cardSecSysClockPort
        Integer32,
    cardTpzOc3DefinedXface
        INTEGER
    cardOc12DefinedXface
        INTEGER
  }

cardDefinedType OBJECT-TYPE
    SYNTAX INTEGER {
     cardTypeEmpty(1),
     cardType6PortV35(2),
     cardType1Port24ChanFractT1(3),
     cardType1Port30ChanFractE1(4),
     cardType6PortUio(5),
     cardTypeCp(6),
     cardTypeSp4(36),
     cardTypeSp8(37),
     cardType8PortUio(7),
     cardType4Port24ChanFractT1(8),
     cardType4Port30ChanFractE1(9),
     cardType1PortFractT3(10),
     --cardType1Port28ChanDs3 == cardType1PortFractT3
     cardType1PortFractE3 (11),
     cardType2PortHssi(12),
     cardType10PortDsx1(13),
     cardType18PortRs232(14),
     cardType8PortRs232(15),
     cardType4Port24ChanUnchanT1(16),
     cardType4Port30ChanUnchanE1(17),
     cardType1PortAtmDs3Uni(18),
     cardType1PortAtmE3Uni(19),
     cardType4Port24ChanPriT1(20),
     cardType4PortE1Pri(21),
     cardType4Port24ChanSHT1(22),
     cardType4Port24ChanSHUT1(23),
     cardType4PortSHPri(24),
     cardType8PortT1Atm(25),
     cardType8PortE1Atm(26),
     cardType1PortAtmIwuOc3(33),
     cardType8PortAtmDS3(27),
     cardType8PortE3AtmDS3(28),
     cardType1PortAtmCsDs3(38),
     cardType8PortE1(42),
     cardType8PortT1(41),
     cardType4PortAtmOc3Stm1(34),
     cardType1PortAtmOc12Stm4(39)
    }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "Coded type for the card"
    ::= { cardEntry 1 }

cardUioDefinedXface OBJECT-TYPE
    SYNTAX INTEGER {
      eia449(1),
      x21(2),
      eia530(3),
      eia530a(4),
      v35(5),
      none(8),
      v24(9)
    }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "Defined Interface type, if this is a UIO card"
    ::= { cardEntry 2 }

cardE1DefinedXface OBJECT-TYPE
    SYNTAX INTEGER {
        typecoaxPair75ohm (6),
        type15Db120ohm (7),
        type8portE1CoaxPair75ohm (24),
        type8portE115Db120ohm (26)
      }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "Defined Interface type, if this is a E1 card"
    ::= { cardEntry 3}

cardDsx1DefinedXface OBJECT-TYPE
    SYNTAX INTEGER {
      typeRj48(141),
      type15Db120ohm(142)
    }
    MAX-ACCESS read-write
    STATUS current
```

```
    DESCRIPTION "Defined Interface type, if this is a Dsx1 card"
    ::= { cardEntry 4 }

cardRedundSlotId OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "Slot used by a redundant card for this primary slot"
    ::= { cardEntry 5 }

cardAdminStatus OBJECT-TYPE
    SYNTAX INTEGER {
      up(1),
      down(2),
      testing(3),
      redundBoot(4),
      marginal(5),
      maintenance(6)
    }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "The administrative status for the card."
    ::= { cardEntry 6 }

cardCapability OBJECT-TYPE
    SYNTAX INTEGER {
      frameRelay(1),
      multiService(2),
      cpbasic(4),
      cpplus(8)
    }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "Card capability"
    ::= { cardEntry 7 }

cardExtClockSource OBJECT-TYPE
    SYNTAX INTEGER {
       primSys(1),
       secSys(2),
       prefSys(3),
       local(4)
       e1G703sec10(5)
       e1Network(6)
    }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "The rate of the card's external clock"
    ::= { cardEntry 8 }

cardAtmOc3Interface OBJECT-TYPE
    SYNTAX INTEGER {
      sonet(10),
      sdh(11)
    }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "ATM interface type."
    ::= { cardEntry 9 }

cardRowStatus OBJECT-TYPE
SYNTAX RowStatus
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
           "Row status active(1) - Row is currently usable.
            notInService(2) - Row has been created and initialized but
            not made active by client.
            notReady(3) - Row has been created but contains 'holes',
            waiting for client to finish.
            createAndGo(4) - Not supported.
            createAndWait(5) - Create new row.
            destroy(6) - Delete an existing row."
    ::= { cardEntry 10 }

cardModifyType OBJECT-TYPE
        SYNTAX  INTEGER { normal(1), dbOnly(4), dbOnlySetOutOfSync(5) }
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
        "By default, writes are stored to the database and the switch.
        Set this to dbOnly to send writes only to the database.
        dbOnlySetOutOfSync sends writes to the database and sets the
        Out of Sync flag in the database.
        This value is re-set to normal after every transaction."
        DEFVAL {normal}
        ::= { cardEntry 11 }

cardAtmFcp OBJECT-TYPE
        SYNTAX  INTEGER { disabled (1), enabled (2) }
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
        " ATM flow control processor, can be enabled or disabled. If
         enabled cardCcrmProtocolId, cardBcmProtocolId,
         cardRmXmitInterval, cardIdleVcFactor,cardMultiDiscardThresh,
         cardIcrConst and cardMngVBRnrtTraffic can be accessed."
        DEFVAL {disabled}
        ::= {cardEntry 12 }

cardCcrmProtocolId  OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
        " Accessible only when cardATmFcp is enabled."
        ::= {cardEntry 13 }
```

```
cardBcmProtocolId  OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
        " Accessible only when cardATmFcp is enabled."
        ::= {cardEntry 14 }

cardRmXmitInterval OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
        " Accessible only when cardATmFcp is enabled."
        ::= {cardEntry 15 }

cardIdleVcFactor  OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
        " Accessible only when cardATmFcp is enabled."
        ::= {cardEntry 16 }

cardMultiDiscardThresh  OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
        " Accessible only when cardATmFcp is enabled."
        ::= {cardEntry 17 }

cardIcrConst  OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
        " Accessible only when cardATmFcp is enabled."
        ::= {cardEntry 18 }

cardMngVBRnrtTraffic  OBJECT-TYPE
        SYNTAX  INTEGER {
           disabled(1),
           enabled(2)
       }
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
        " Accessible only when cardATmFcp is enabled."
        ::= {cardEntry 19 }

cardStatsCapPeakClt OBJECT-TYPE
        SYNTAX  INTEGER {
           disabled (1),
           enabled (2)
        }
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
        " Configures capability to collect peak 5-minute statistics.
          Capability change takes effect upon IOM reboot."
        ::= {cardEntry 21 }

cardStatsCapTotalClt OBJECT-TYPE
        SYNTAX INTEGER {
            disabled (1),
            enabled (2)
        }
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
        "Configures capability to collect total statistics.
         Capability change takes effect upon IOM reboot."
        ::= {cardEntry 22 }

cardStatsOperPeakClt OBJECT-TYPE
        SYNTAX INTEGER {
           disabled (1),
           enabled (2)
        }
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
        "Reflects the operational state of the peak 5-minute
         statistic collection on an IOM. For this setting to be
         enabled, the respective capability must be enabled."
        ::= {cardEntry 23 }

cardStatsOperTotalClt OBJECT-TYPE
        SYNTAX  INTEGER {
                disabled (1),
                enabled (2)
        }
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
        " Reflects the operational state of the total statistic
          collection on an IOM. For this setting to be enabled,
           the respective capability must be enabled."
        ::= {cardEntry 24 }

cardStatsCltPeriod OBJECT-TYPE
        SYNTAX  Integer32(15..1440)
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
        "Configures base collection period for bulk statistics
         on an IOM in minutes. Only the following values are
```

```
         allowed: 15, 20, 30, 60, 120, 180, 240, 360, 720, 1440.
         The default value is 60."
        DEFVAL {60}
        ::= {cardEntry 25 }

cardPrimSysClockPort OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
        " The port number (1-x) on the card that specifies the system
          primary clock source. A zero specifies no port"
        ::= {cardEntry 26 }

cardSecSysClockPort OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
        "The port number (1 to x) on the card that specifies the system
         secondary clock source.  A zero specifies no port"
        ::= {cardEntry 27 }

cardTpzOc3DefinedXface OBJECT-TYPE
        SYNTAX  INTEGER {
                multiMode (2),
                singleMode (6),
                singleModeLongReach (9),
                stm1Copper (39)
        }
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
        " Topaz OC3 defined interfaces "
        ::= {cardEntry 28 }

cardOc12DefinedXface OBJECT-TYPE
        SYNTAX  INTEGER {
                singleMode (21),
                singleModeLongReach (48),
        }
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
        " Topaz OC12 defined interfaces "
        ::= {cardEntry 29 }
```

Physical Port Table

```
-- The Physical Port table - contains information associated with the
-- card object phsical ports.
--

pportTable OBJECT-TYPE
    SYNTAX SEQUENCE OF PportEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
           "Table of Physical Port Entries"
    ::= { pport 1 }

pportEntry OBJECT-TYPE
    SYNTAX PportEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
           "Entry of Physical Port Information"
    INDEX  {switchIdIndex, slotIdIndex, pportIdIndex }
    ::= { pportTable 1 }

PportEntry ::=
 SEQUENCE {
    pportDefinedType
      INTEGER,
    pportXmitClockSource
      INTEGER,
    pportBandwidth
      Integer32,
    pportAdminStatus
      INTEGER,
    pportZeroEncoding
      INTEGER,
    pportExtClockBackup
      INTEGER,
    pportConnType
      INTEGER,
    pportLineType
      INTEGER,
    pportDs1LineLength
      INTEGER,
    pportDsx1LineLength
      INTEGER,
    pportDS1LineBuildOut
      INTEGER,
    pportLoopbackStatus
      INTEGER,
    pportAllocatedChannelCount
      Integer32,
    pportAllocatedChannels
      Integer32,
    pportChannelsInUse
      Integer32,
    pportDs3LineBuildOut
      INTEGER,
    pportChDs3LineBuildOut
      INTEGER,
    pportCellPayloadScramble
      INTEGER,
```

```
pportAtmCbitParity
  INTEGER,
pportAtmMaxBufferSize
  Integer32,
pportDs3PlcpOptions
  INTEGER,
pportAtmReceivedFeacStatus
  Integer32,
pportAtmEfciMarking
  INTEGER,
pportAtmPeakCellRates0
  Integer32,
pportAtmPeakCellRates1
  Integer32,
pportAtmPeakCellRates2
  Integer32,
pportAtmPeakCellRates3
  Integer32,
pportAtmPeakCellRates4
  Integer32,
pportAtmPeakCellRates5
  Integer32,
pportAtmPeakCellRates6
  Integer32,
pportAtmPeakCellRates7
  Integer32,
pportOpticalXmit
  INTEGER,
pportAtmBIPErrorThreshold
  INTEGER,
pportAtmVPILength
  Integer32,
pportAtmCircuitType
  Integer32,
pportApplicationMode
  INTEGER,
pportHecErrorCorrection
  INTEGER,
pportRowStatus
  RowStatus,
pportModifyType
  INTEGER,
pportXmitMode
  INTEGER,
pportAlarmFailure
    Integer32,
pportAlarmClear
    Integer32,
pportChDs3ChannelsInUse
    Integer32,
pportT1LineCode
    INTEGER,
pportE1LineCode
    INTEGER,
pportInBandLineLoopBackCode
    INTEGER,
pportT1LineBuildOut
    INTEGER,
pportT1CircuitType
    INTEGER,
pportMIBInterfaceNumber
    Integer32,
pportRedundancy
    INTEGER,
pportAtmTSPacingMode
    INTEGER,
pportEffectiveBandwidth
    Integer32,
pportMinNumT1s
    Integer32,
pportMinNumE1s
    Integer32,
pportIdleCellType
    INTEGER,
pportDS3FeacLoopback
    INTEGER,
pportT1FeacLoopback
    INTEGER
  }

pportDefinedType OBJECT-TYPE
    SYNTAX INTEGER {
     pportTypeEmpty(1),
     pportType6PortV35(2),
     pportType1Port24ChanFractT1(3),
     pportType1Port30ChanFractE1(4),
     pportType6PortUio(5),
     pportTypeCp(6),
     pportTypeSp4(36),
     pportTypeSp8(37),
     pportType8PortUio(7),
     pportType4Port24ChanFractT1(8),
     pportType4Port30ChanFractE1(9),
     pportType1PortFractT3(10),
     --pportType1Port28ChanDs3 == pportType1PortFractT3
     pportType1PortFractE3 (11),
     pportType2PortHssi(12),
     pportType10PortDsx1(13),
     pportType18PortRs232(14),
     pportType8PortRs232(15),
     pportType4Port24ChanUnchanT1(16),
     pportType4Port30ChanUnchanE1(17),
     pportType1PortAtmDs3Uni(18),
     pportType1PortAtmE3Uni(19),
     pportType4Port24ChanPriT1(20),
     pportType4PortE1Pri(21),
     pportType4Port24ChanSHT1(22),
     pportType4Port24ChanSHUT1(23),
```

```
     pportType4PortSHPri(24),
     pportType8PortT1Atm(25),
     pportType8PortE1Atm(26),
     pportType1PortAtmIwuOc3(33),
     pportType8PortAtmDS3(27),
     pportType8PortE3AtmDS3(28),
     pportType1PortAtmCsDs3(38),
     pportType8PortE1(42),
     pportType8PortT1(41),
     pportType4PortAtmOc3Stm1(34),
     pportType1PortAtmOc12Stm4(39)
    }
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION "The type of the port (equivalent to the type of card)"
    ::= { pportEntry 1}

pportXmitClockSource OBJECT-TYPE
    SYNTAX INTEGER {
      dce(1),
      loopTimedDce(2),
      dte(3),
      directTrunk(4),
      loopTimed(5),
      internal(6),
      external(7)
    }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "Clock Source"
    ::= { pportEntry 2}

pportBandwidth OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
        DESCRIPTION
        "Available bandwidth on this pport. This is read-only on most
        pports, but writable on some (e.g., HSSIand UIO pports)
        Valid values for HSSI pport: 1579000, 3158000, 4737000, 6316000,
        7895000, 9474000, 11053000, 12632000, 14211000, 15790000,
        17369000, 18948000, 20527000, 22106000, 23685000, 25264000,
        26843000, 28422000, 30001000, 31580000, 33159000, 34738000,
        36317000, 37896000, 39475000, 41054000, 42633000, 44212000.
        Valid values for UIO pport: 19200, 38400, 48000, 56000, 64000,
        128000, 192000, 256000, 320000, 384000,448000, 512000, 576000,
        640000, 704000, 768000, 832000, 896000, 960000, 1024000, 1088000,
        1152000, 1216000, 1280000, 1344000, 1408000, 1472000, 1536000,
        1600000, 1664000, 1728000, 1792000, 1856000, 1920000, 1984000,
        2048000, 4096000, 6144000, 8192000."
    ::= { pportEntry 3}

pportAdminStatus OBJECT-TYPE
    SYNTAX INTEGER {
      up(1),
      down(2),
      testing(3)
    }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "Administrative status for the port"
    ::= { pportEntry 4}

pportZeroEncoding OBJECT-TYPE
    SYNTAX INTEGER {
      ami(1),
      -- ami == jammedBit == 1
      b8Zs(2),
      hdb3(3)
    }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "Zero coding value for DS1 PPorts"
    ::= { pportEntry 6}

pportExtClockBackup OBJECT-TYPE
    SYNTAX INTEGER {
      undeifined(1),
      internal(2),
      loopTimed(3)
    }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "B-STDX only, clock source if external clock fails."
    ::= { pportEntry 7}

pportConnType OBJECT-TYPE
    SYNTAX INTEGER {
      toNetwork(1),
      toDsx1(2)
    }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "Connection type"
    ::= { pportEntry 8}

pportLineType OBJECT-TYPE
    SYNTAX INTEGER {
      d4(1),
      esfAnsi(2),
  --    esfCcitt = esfAnsi,
      esfAttAddressA(3),
      esfNone(4),
      e1CasCrc4(7),
      e1CasNoCrc4(8),
      e1NoCasCrc4(5),
      e1NoCasNoCrc4(6),
      esfAttAddressB(9)
```

```
    }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "The Line Type for DS1 PPorts"
    ::= { pportEntry 9}

pportDs1LineLength OBJECT-TYPE
    SYNTAX INTEGER {
      length0to133ft(96),
      length133to266ft(128),
      length266to399ft(160),
      length399to533ft(192),
      length533to655ft(224)
    }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "Supported line length for DS1 PPorts that have
                 ConnType == typeToDsx1"
    ::= { pportEntry 10}

pportDsx1LineLength OBJECT-TYPE
    SYNTAX INTEGER {
      length0to110ft(1),
      length110to220ft(2),
      length220to330ft(3),
      length330to440ft(4),
      length440to550ft(5),
      length550to660ft(6),
      lengthOver660ft(7)
    }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "Supported Line Length for DSX1 PPorts"
    ::= { pportEntry 11}

pportDS1LineBuildOut OBJECT-TYPE
    SYNTAX INTEGER {
      buildOut0db(96),
      buildOutMinus7dot5db(32),
      buildOutMinus15db(64)
    }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "LineBuildOut value for DS1 PPorts that have
                ConnType == typeToNetwork"
    ::= { pportEntry 12}

pportLoopbackStatus OBJECT-TYPE
    SYNTAX INTEGER {
       none(1),
       internal(2),
       external(3),
       payload(4),
       line(5),
       framedInbandLine(6),
       unframedInbandLine(7),
       esfFdlLine(8),
       esfPayloadLine(9),
       farend(10)
    }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "Loopback status."
    ::= { pportEntry 13}

pportAllocatedChannelCount OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION "Number of Channels allocated on a DS1 PPort"
    ::= { pportEntry 14}

pportAllocatedChannels OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "Bit map indicating the allocated channels on a DS1 PPort"
    ::= { pportEntry 15}

pportChannelsInUse OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION "Bit map indicating the channels in use on a DS1 PPort"
    ::= { pportEntry 16}

pportDs3LineBuildOut OBJECT-TYPE
    SYNTAX INTEGER {
      ds3LineBuildOut0to225ft(1),
      ds3LineBuildOut226to450ft(2)
    }
    MAX-ACCESS read-write
    STATUS current
        DESCRIPTION
        "The line build out or line length specification for
         the DS3 transmitter.

                1-port ATM-UNI DS3 card
                --------------------------
                The accepted values are:

                1 - 0 to 225 feet
                2 - 226 to 450 feet"

    ::= { pportEntry 17}

pportChDs3LineBuildOut OBJECT-TYPE
    SYNTAX INTEGER {
```

```
      ds3LineBuildOut0to225ft(1),
      ds3LineBuildOut226to450ft(2)
    }
    MAX-ACCESS read-write
    STATUS current
        DESCRIPTION
        "The line build out or line length specification for
         the channelized DS3 transmitter.

                1-port ATM-UNI ChDS3 card
                -------------------------
                The accepted values are:

                1 - 0 to 225 feet
                2 - 226 to 450 feet"

    ::= { pportEntry 18}

pportCellPayloadScramble OBJECT-TYPE
    SYNTAX INTEGER {
         disabled(1),
         enabled(2)
    }
    MAX-ACCESS read-write
    STATUS current
        DESCRIPTION
        "Prevents ATM cell header alienation; disable only if
         connected equipment doesn't support Cell Payload Scramble."
    ::= { pportEntry 19}

pportAtmCbitParity OBJECT-TYPE
    SYNTAX INTEGER {
         disabled(1),
         enabled(2)
    }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "ATM Cbit Parity option for DS3 Physical Ports"
    ::= { pportEntry 20}

pportAtmMaxBufferSize OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "Maximum buffer size for DS3 Physical Ports"
    ::= { pportEntry 21}

pportDs3PlcpOptions OBJECT-TYPE
    SYNTAX INTEGER {
         enabled(2),
         disabled(3)
    }
    MAX-ACCESS read-write
    STATUS current
        DESCRIPTION
        "The PLCP Option for a DS3 PPort"
    ::= { pportEntry 22}

pportAtmReceivedFeacStatus OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "Far-end alarm and control status (DS3 only)."
    ::= { pportEntry 23}

pportAtmEfciMarking OBJECT-TYPE
    SYNTAX INTEGER {
         disabled(1),
         enabled(2)
    }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "Explicit Forward Congestion Indicator - Atm cell
                 header bit used to indicate congestion."
    ::= { pportEntry 24}

pportAtmPeakCellRates0 OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "One of eight priority queues for DS3 Physical Ports"
    ::= { pportEntry 26}

pportAtmPeakCellRates1 OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "One of eight priority queues for DS3 Physical Ports"
    ::= { pportEntry 27}

pportAtmPeakCellRates2 OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "One of eight priority queues for DS3 Physical Ports"
    ::= { pportEntry 28}

pportAtmPeakCellRates3 OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "One of eight priority queues for DS3 Physical Ports"
    ::= { pportEntry 29}

pportAtmPeakCellRates4 OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
```

```
    DESCRIPTION "One of eight priority queues for DS3 Physical Ports"
    ::= { pportEntry 30}

pportAtmPeakCellRates5 OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "One of eight priority queues for DS3 Physical Ports"
    ::= { pportEntry 31}

pportAtmPeakCellRates6 OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "One of eight priority queues for DS3 Physical Ports"
    ::= { pportEntry 32}

pportAtmPeakCellRates7 OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "One of eight priority queues for DS3 Physical Ports"
    ::= { pportEntry 33}

pportOpticalXmit OBJECT-TYPE
    SYNTAX INTEGER {
      disabled(1),
      enabled(2)
    }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "applicable for the OC3 and OC12 pports"
    ::= { pportEntry 34}

pportAtmBIPErrorThreshold OBJECT-TYPE
    SYNTAX INTEGER {
         bipErrorsThreshIgnored(1),
         bipErrorsThresh4(4),
         bipErrorsThresh5(5),
         bipErrorsThresh6(6)
    }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "ATM IWU Bip error threshold"
    ::= { pportEntry 35}

pportAtmVPILength OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "."
    ::= { pportEntry 36}

pportAtmCircuitType OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "."
    ::= { pportEntry 41}

pportApplicationMode OBJECT-TYPE
    SYNTAX INTEGER {
      m13(1),
      cbitParity(2)
    }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "Application Mode"
    ::= { pportEntry 43}

pportHecErrorCorrection OBJECT-TYPE
    SYNTAX INTEGER {
        disabled(1),
        enabled(2)
    }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "."
    ::= { pportEntry 44}

pportRowStatus OBJECT-TYPE
    SYNTAX RowStatus
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
              "Row status active(1) - Row is currently usable.
                notInService(2) - Row has been created and initialized
                but not made active by client.
                notReady(3)  - Not supported
                createAndGo(4) - Not supported.
                createAndWait(5) - Not supported.
                destroy(6) - Not supported."
    ::= { pportEntry 45 }

pportModifyType OBJECT-TYPE
        SYNTAX  INTEGER { normal(1), dbOnly(4), dbOnlySetOutOfSync(5) }
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
        "By default, writes are stored to the database and the switch.
        Set this to dbOnly to send writes only to the database.
        dbOnlySetOutOfSync sends writes to the database and sets the
        Out of Sync flag in the database.
        This value is re-set to normal after every transaction."
        DEFVAL {normal}
    ::= { pportEntry 46 }

pportXmitMode OBJECT-TYPE
```

```
        SYNTAX  INTEGER { sonet(1), sdh(2) }
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION  " for OC3 and OC12 atm pports"
        ::= { pportEntry 47 }

pportAlarmFailure OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION  " Alarm failure"
        ::= { pportEntry 48 }

pportAlarmClear OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION  "ALarm clear"
        ::= { pportEntry 49 }

pportChDs3ChannelsInUse OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS  read-only
        STATUS current
        DESCRIPTION  " "
        ::= { pportEntry 50 }

pportT1LineCode OBJECT-TYPE
        SYNTAX INTEGER {
            ami (1),
            b8zs (2),
            amiNoBitStuff (5)
        }
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION  "T1 line code "
        ::= { pportEntry 51 }

pportE1LineCode OBJECT-TYPE
        SYNTAX INTEGER {
            ami (1),
            hdb3 (3)
        }
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION  "E1 line code "
        ::= { pportEntry 52 }

pportInBandLineLoopBackCode OBJECT-TYPE
        SYNTAX INTEGER {
         csu(1),
          ni (2)
        }
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION  " T1 and E1 Inband line loopback code"
        ::= { pportEntry 53 }

pportT1LineBuildOut OBJECT-TYPE
        SYNTAX INTEGER {
           length0to133ft(1),
           length133to266ft(2),
           length266to399ft(3),
           length399to533ft(4),
           length533to655ft(5)
        }
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION  " "
        ::= { pportEntry 54 }

pportT1CircuitType OBJECT-TYPE
        SYNTAX INTEGER {
          superFrame(10),
          extendedSuperFrame(2)
        }
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION  " "
        ::= { pportEntry 55 }

pportMIBInterfaceNumber OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION  " DS3, OC3, OC12, T1 and E1 MIB interface number"
        ::= { pportEntry 56 }

pportRedundancy OBJECT-TYPE
        SYNTAX  INTEGER { disabled(1), apsOnePlusOne (2) }
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
        " Pport redundancy architecture.  Default is disabled."
    ::= { pportEntry 57 }

pportAtmTSPacingMode OBJECT-TYPE
        SYNTAX INTEGER (0..255)
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION  "ATM traffic shaper pacing mode."
        ::= { pportEntry 58 }

pportEffectiveBandwidth OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS  read-only
        STATUS current
        DESCRIPTION  "Effective bandwidth for pports on CBX500. Unit in
```

```
        cps (cell per second)"
        ::= { pportEntry 59 }

pportMinNumT1s OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS  read-only
        STATUS current
        DESCRIPTION  "The minimum number of T1 lines needed to support
        the supplied effective bandwidth after the shaper is applied."
        ::= { pportEntry 60 }

pportMinNumE1s OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS  read-only
        STATUS current
        DESCRIPTION  "The minimum number of E1 lines needed to support
        the supplied effective bandwidth after the shaper is applied."
        ::= { pportEntry 61 }

pportIdleCellType OBJECT-TYPE
        SYNTAX  INTEGER { atmForum(1), itu (2) }
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
        "."
    ::= { pportEntry 62 }

pportDS3FeacLoopback OBJECT-TYPE
        SYNTAX  INTEGER { disabled(2), enabled (1) }
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
        "FEAC Loopback for DS3 pports."
    ::= { pportEntry 63 }

pportT1FeacLoopback OBJECT-TYPE
        SYNTAX  INTEGER { disabled(1), enabled (2) }
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
        "Far end loopback for T1 pport."
    ::= { pportEntry 64 }
```

PPort Traffic Shapers Table

```
 --pport traffic shapers

pportTrafficShaperTable OBJECT-TYPE
        SYNTAX  SEQUENCE OF PportTrafficShaperEntry
        MAX-ACCESS      not-accessible
        STATUS current
        DESCRIPTION
        "A list of Parameters assigned to the 15 traffic shaper parameter
         combinations of each pport of the ATM-IWU."
        ::= { pport 2 }

pportTrafficShaperIndex OBJECT-TYPE
        SYNTAX Integer32 (1..15)
        MAX-ACCESS      not-accessible
        STATUS current
        DESCRIPTION
        "A positive integer to identify an entry in the
         pportTrafficShaperTable. The ATM-IWU and CS cards support
         exactly 15 shapers."
        ::= { pport 5 }

pportTrafficShaperEntry OBJECT-TYPE
        SYNTAX  PportTrafficShaperEntry
        MAX-ACCESS      not-accessible
        STATUS current
        DESCRIPTION
        "Information of a single system reference clock source."
        INDEX   { switchIdIndex, slotIdIndex, pportIdIndex,
                  pportTrafficShaperIndex }
        ::= { pportTrafficShaperTable 1 }

PportTrafficShaperEntry ::=
        SEQUENCE {
--              pportTrafficShaperIndex
--                        Integer32,
                pportTsCsPriority
                        Integer32,
                pportTsCsSustainableCellRate
                        Integer32,
                pportTsCsPeakCellRate
                        Integer32,
                pportTsCsMaxBurstSize
                        Integer32,
                pportTsIwuPriority
                        Integer32,
                pportTsIwuSustainableCellRate
                        Integer32,
                pportTsIwuPeakCellRate
                        Integer32,
                pportTsIwuMaxBurstSize
                        Integer32,
                pportTrafficShaperRowStatus
                        RowStatus,
                pportTrafficShaperModifyType
                        INTEGER
                }

pportTsCsPriority OBJECT-TYPE
        SYNTAX Integer32 (1..16)
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
        "The priority of the Shaper.
```

```
         Channels tied to a Shaper are served only if no higher priority
         Shapers await service. 1 is the highest, 16 the lowest priority."
        ::= { pportTrafficShaperEntry 1 }

pportTsCsSustainableCellRate OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
        "."
        ::= { pportTrafficShaperEntry 2 }

pportTsCsPeakCellRate OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
        " The peak cell rate.
        It defines the minimum gap (in cell units) between emission of any
        consecutive cells in this channel."
        ::= { pportTrafficShaperEntry 3 }

pportTsCsMaxBurstSize OBJECT-TYPE
        SYNTAX Integer32 (0..255)
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
        "Defines the maximum number of credits that can be accumulated by
         a shaper. This is equivalent to the maximum burst allowed at the
         peak rate."
        ::= { pportTrafficShaperEntry 4 }

pportTsIwuPriority OBJECT-TYPE
        SYNTAX Integer32 (1..16)
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
        "The priority of the Shaper.
        Channels tied to a Shaper are served only if no higher priority
        Shapers await service. 1 is the highest, 16 the lowest priority."
        ::= { pportTrafficShaperEntry 5 }

pportTsIwuSustainableCellRate OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
        "."
        ::= { pportTrafficShaperEntry 6 }

pportTsIwuPeakCellRate OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
        " The peak cell rate.
        It defines the minimum gap (in cell units) between emission of any
        consecutive cells in this channel."
        ::= { pportTrafficShaperEntry 7 }

pportTsIwuMaxBurstSize OBJECT-TYPE
        SYNTAX Integer32 (0..255)
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
        "Defines the maximum number of credits that can be accumulated by
         a shaper. This is equivalent to the maximum burst allowed at the
         peak rate."
        ::= { pportTrafficShaperEntry 8 }

pportTrafficShaperRowStatus OBJECT-TYPE
        SYNTAX  RowStatus
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
        "Row status active(1) - Row is currently usable.
         notInService(2) - Row has been created and initialized but not
         made active by client.
         notReady(3)  - Not supported
         createAndGo(4) - Not supported.
                 createAndWait(5) - Not supported.
                destroy(6) - Not supported."
        ::= { pportTrafficShaperEntry 9 }

pportTrafficShaperModifyType OBJECT-TYPE
        SYNTAX  INTEGER { normal(1), dbOnly(4), dbOnlySetOutOfSync(5) }
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
        "By default, writes are stored to the database and the switch.
        Set this to dbOnly to send writes only to the database.
        dbOnlySetOutOfSync sends writes to the database and sets the
        Out of Sync flag in the database.
        This value is re-set to normal after every transaction."
        DEFVAL {normal}
        ::= { pportTrafficShaperEntry 10 }
```

PPort APS Table

```
-- pport Aps Attributes.

pportApsTable OBJECT-TYPE
        SYNTAX  SEQUENCE OF PportApsEntry
        MAX-ACCESS      not-accessible
        STATUS current
        DESCRIPTION
        "A list of Automoatic Protection System Parameters assigned to the
         pport of the ATM-OC-12."
        ::= { pport 3 }
```

```
pportApsEntry OBJECT-TYPE
        SYNTAX  PportApsEntry
        MAX-ACCESS      not-accessible
        STATUS current
        DESCRIPTION
               "Information of a Automatic Protection System "
        INDEX   { switchIdIndex, slotIdIndex, pportIdIndex }
        ::= { pportApsTable 1 }

PportApsEntry ::=
        SEQUENCE {
                   pportApsAdminDir
                   INTEGER,
                   pportApsLineType
                   INTEGER,
                   pportApsRevertiveMode
                   INTEGER,
                   pportApsPairedSlotId
                   Integer32,
                   pportApsPairedPportId
                   Integer32,
                   pportApsSfBerThresh
                   Integer32,
                   pportApsSdBerThresh
                   Integer32,
                   pportApsWtrPeriod
                   Integer32,
                   pportApsXCommand
                   INTEGER,
                   pportApsRowStatus
                   RowStatus,
                   pportApsModifyType
                   INTEGER
                 }

pportApsAdminDir OBJECT-TYPE
        SYNTAX INTEGER {
                unidirectional (1),
                bidirectional (2)
        }
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
        "Provisioned APS switch-direction-mode. Default is uni-
         directional."
        ::= { pportApsEntry 1 }

pportApsLineType OBJECT-TYPE
        SYNTAX INTEGER {
                working (1),
                protection (2)
        }
        MAX-ACCESS  read-only
        STATUS current
        DESCRIPTION
        "APS line type for the pport.  Writable only when
         pportRedundancy is Enabled."
        ::= { pportApsEntry 2 }

pportApsRevertiveMode OBJECT-TYPE
        SYNTAX INTEGER {
                revertive (1),
                nonrevertive (2)
        }
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
        "APS revertive mode.  When revertive, after the condition
        for an automatic switchover clears, user traffic will be
        switched back to the working line after the pportApsWtrPeriod
                expires.   Default is revertive."
        ::= { pportApsEntry 3 }

pportApsPairedSlotId OBJECT-TYPE
        SYNTAX Integer32 (1..16)
        MAX-ACCESS  read-only
        STATUS current
        DESCRIPTION
         "Slot ID of the paired-with APS pport."
        ::= { pportApsEntry 4 }

pportApsPairedPportId OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS  read-only
        STATUS current
        DESCRIPTION
        "Pport ID of the paired-with APS pport."
        ::= { pportApsEntry 5 }

pportApsSfBerThresh OBJECT-TYPE
        SYNTAX Integer32 (3..5)
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
        "Exponent N for APS Signal Failure based on BER.  A line
         bit-error-rate above 10^-N causes an SF BER failure to be
         asserted.  SF BER is cleared when the line BER returns to
         less than 10^-7."
        ::= { pportApsEntry 6 }

pportApsSdBerThresh OBJECT-TYPE
        SYNTAX Integer32 (6..9)
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
        "Exponent N for APS Signal Degrade based on BER.  A line
        bit-error-rate above 10^-N causes an SD BER failure to be
```

```
        asserted.  SD BER is cleared when the line BER returns to
        less than 10^-(N+1)."
        ::= { pportApsEntry 7 }

pportApsWtrPeriod OBJECT-TYPE
        SYNTAX Integer32 (5..12)
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
                 "APS wait-to-restore period.  The number of minutes to
                wait after an automatic switch condition clears before
                switching back to the working line."
        ::= { pportApsEntry 8 }

pportApsXCommand OBJECT-TYPE
        SYNTAX INTEGER {
                clear (1),
                lockoutProtection (2),
                forcedSwitchWorkingToProtection (3),
                forcedSwitchProtectionToWorking (4),
                manualSwitchWorkingToProtection (5),
                manualSwitchProtectionToWorking (6),
                exercise (7)
        }
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
        "External switch commands.  The clear command clears
         any previously activated external command.  Manual
         switch is preemptable by auto-switch-requests (line
         failures) while forced switch is not preemptable (except
         if the protection line fails).  Manual and forced switch
         from protection to working, is valid only for 1+1 mode.
         Exercise simulates a switchover using APS signalling
         without actually performing a switch to protection line."
        ::= { pportApsEntry 9 }

pportApsRowStatus OBJECT-TYPE
        SYNTAX RowStatus
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
        "Row status active(1) - Row is currently usable.
         notInService(2) - Row has been created and initialized but not
         made active by client.
         notReady(3)  - Not supported
         createAndGo(4) - Not supported.
         createAndWait(5) - Not supported.
         destroy(6) - Not supported."
    ::= { pportApsEntry 10 }

pportApsModifyType OBJECT-TYPE
        SYNTAX  INTEGER { normal(1), dbOnly(4), dbOnlySetOutOfSync(5) }
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
        "By default, writes are stored to the database and the switch.
        Set this to dbOnly to send writes only to the database.
        dbOnlySetOutOfSync sends writes to the database and sets the
        Out of Sync flag in the database.
        This value is re-set to normal after every transaction."
        DEFVAL {normal}
    ::= { pportApsEntry 11 }
```

BSTDX ATM Circuit Endpoint table

```
-- BSTDX ATM Circuit Endpoint table - contains instances of ATM circuit
-- endpoints on BSTDX switches.
--

interworkingCircuitEndpointTable OBJECT-TYPE
    SYNTAX SEQUENCE OF InterworkingCircuitEndpointEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
           "A list of ATM circuit entries."
    ::= { circuitConfiguration 2 }

interworkingCircuitEndpointEntry OBJECT-TYPE
    SYNTAX InterworkingCircuitEndpointEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
    "A group of attributes associated with an endpoint of an ATM circuit."
    INDEX  {switchIdIndex,
            lportIfIndex,
            vpiIndex,
            vciIndex}

    ::= { interworkingCircuitEndpointTable 1 }

InterworkingCircuitEndpointEntry ::=
  SEQUENCE {
    interworkingCircuitEndpointCircuitNumber
       Integer32,
    interworkingCircuitEndpointTrafficDescrParam1
      Integer32,
    interworkingCircuitEndpointTrafficDescrParam2
      Integer32,
    interworkingCircuitEndpointTrafficDescrParam3
      Integer32,
    interworkingCircuitEndpointTrafficDescrParam4
      Integer32,
    interworkingCircuitEndpointTrafficDescrParam5
      Integer32,
    interworkingCircuitEndpointTrafficDescrType
      INTEGER,
    interworkingCircuitEndpointScr
      Integer32,
```

```
    interworkingCircuitEndpointMbs
      Integer32,
    interworkingCircuitEndpointPcr
      Integer32,
    interworkingCircuitEndpointQosClass
      INTEGER,
    interworkingCircuitEndpointFcpDiscard
      INTEGER,
    interworkingCircuitEndpointGracefulDiscard
      INTEGER,
    interworkingCircuitEndpointRedFramePercent
      Integer32,
    interworkingCircuitEndpointShaperId
      Integer32,
    interworkingCircuitEndpointRateEnfScheme
      INTEGER,
    interworkingCircuitEndpointCircuitPriority
      Integer32,
    interworkingCircuitEndpointRowStatus
      RowStatus,
    interworkingCircuitEndpointModifyType
      INTEGER,
    interworkingCircuitEndpointDeltaBc
      Integer32,
    interworkingCircuitEndpointDeltaBe
      Integer32,
    interworkingCircuitEndpointZeroCIREnabled
      INTEGER,
    interworkingCircuitEndpointSlotId
      Integer32,
    interworkingCircuitEndpointPPortId
      Integer32
  }

interworkingCircuitEndpointCircuitNumber OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION "The number of the circuit which this endpoint terminates.
    This is used as the index into the circuitCrossConnectTable."
    ::= { interworkingCircuitEndpointEntry 1}

interworkingCircuitEndpointTrafficDescrParam1 OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "The Traffic Descriptor Parameter 1"
    ::= { interworkingCircuitEndpointEntry 2}

interworkingCircuitEndpointTrafficDescrParam2 OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "The Traffic Descriptor Parameter 2"
    ::= { interworkingCircuitEndpointEntry 3}

interworkingCircuitEndpointTrafficDescrParam3 OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "The Traffic Descriptor Parameter 3"
    ::= { interworkingCircuitEndpointEntry 4}

interworkingCircuitEndpointTrafficDescrParam4 OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "The Traffic Descriptor Parameter 4"
    ::= { interworkingCircuitEndpointEntry 5}

interworkingCircuitEndpointTrafficDescrParam5 OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "The Traffic Descriptor Parameter 5"
    ::= { interworkingCircuitEndpointEntry 6}

interworkingCircuitEndpointTrafficDescrType OBJECT-TYPE
    SYNTAX INTEGER {
    pcrClp0PcrClp01(1),
    pcrClp0PcrClp01Tagging(2),
    pcrClp01ScrClp0MbsClp0(3),
    pcrClp01ScrClp0MbsClp0Tagging(4),
    pcrClp01(5),
    pcrClp01ScrClp01MbsClp01(6),
    pcrClp01BestEffort(7),
    pcrClp0McrClp0(8)
    }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "AtmCircuit Traffic Descriptor Type."
    ::= { interworkingCircuitEndpointEntry 7}

interworkingCircuitEndpointScr OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "Sustainable Cell Rate, in bits."
    ::= { interworkingCircuitEndpointEntry 8}

interworkingCircuitEndpointMbs OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "The Maximum Burst Size, in bits."
    ::= { interworkingCircuitEndpointEntry 9}

interworkingCircuitEndpointPcr OBJECT-TYPE
```

```
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "The Peak Cell Rate, in bits."
    ::= { interworkingCircuitEndpointEntry 10}

interworkingCircuitEndpointQosClass OBJECT-TYPE
    SYNTAX INTEGER {
        cbr (1),
        vbrRealTime (2),
        vbrNonRealTime (3),
        ubr (4),
        abr (5),
        unspCbr (6),
        unspVbrNonRealTime (7),
        unspBestEffort (8)
        }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "AtmCircuit Quality of Service."
    ::= { interworkingCircuitEndpointEntry 11}

interworkingCircuitEndpointFcpDiscard OBJECT-TYPE
    SYNTAX INTEGER { epd(1), clp1 (2) }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION ""
    DEFVAL {epd}
    ::= { interworkingCircuitEndpointEntry 12}

interworkingCircuitEndpointGracefulDiscard OBJECT-TYPE
    SYNTAX INTEGER {
     off(1),
     on(2)
    }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "This variable states whether graceful discard is enabled
    for the circuit."
    ::= { interworkingCircuitEndpointEntry 13}

interworkingCircuitEndpointRedFramePercent OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
    "The percentage of RED frame bits that are allowed to enter the
     network, during the measurement interval, under non-congestion
     condition. Its value range is 0 - 100 and default value is 100.
     Its calculation is as follows:

     cktRedFrPcn = (allowed RED frame bits)/(Bc+Be+allowed RED frame
     bits)"
    ::= { interworkingCircuitEndpointEntry 14}

interworkingCircuitEndpointShaperId OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "."
    ::= { interworkingCircuitEndpointEntry 15}

interworkingCircuitEndpointRateEnfScheme OBJECT-TYPE
    SYNTAX INTEGER {
     jump(1),
     simple(2)
    }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "This variable states the maximum segment size for the
    network."
    ::= { interworkingCircuitEndpointEntry 16}

interworkingCircuitEndpointCircuitPriority OBJECT-TYPE
    SYNTAX Integer32 (0..4)
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "."
    ::= {interworkingCircuitEndpointEntry 17}

interworkingCircuitEndpointRowStatus OBJECT-TYPE
        SYNTAX          RowStatus
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
        "Row status active(1) - Row is currently usable.
         notInService(2) - Row has been created and initialized but not
         made active by client.
         notReady(3) - Row has been created but contains ‘holes’, waiting
         for client to finish.
         createAndGo(4) - Not supported.
         createAndWait(5) - Create new row.
         destroy(6) - Delete an existing row."
        ::= { interworkingCircuitEndpointEntry 18 }

interworkingCircuitEndpointModifyType OBJECT-TYPE
        SYNTAX          INTEGER { normal(1), dbOnly(4),
        dbOnlySetOutOfSync(5) }
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
        "By default, writes are stored to the database and the switch.
        Set this to dbOnly to send writes only to the database.
        dbOnlySetOutOfSync sends writes to the database and sets the
        Out of Sync flag in the database.
        This value is re-set to normal after every transaction."
        DEFVAL {normal}
        ::= { interworkingCircuitEndpointEntry 19 }
```

```
interworkingCircuitEndpointDeltaBc OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
        "The maximum number of bits that the network agree to transfer
         over the circuit as committed bits during the measurement
         interval under the CONDITION that the circuit still has POSITIVE
         committed bit (Bc) credits before receiving a frame but will have
         NEGATIVE Bc credits after accepting the frame. The range of this
         variable is 0 to 65,528 bits. By default, if not configured when
         creating the entry, it is set to 65,528 bits."
        ::= { interworkingCircuitEndpointEntry 20 }

interworkingCircuitEndpointDeltaBe OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
        "The maximum number of bits that the network agree to transfer
         over the circuit as allowed excess bits during the measurement
         interval under the CONDITION that the circuit still has POSITIVE
         excess bit (Be) credits before receiving a frame but will have
         NEGATIVE Be credits after accepting the frame. The range of this
         variable is 0 to 65,528 bits. By default, if not configured when
         creating the entry, it is set to 65,528 bits."
        ::= { interworkingCircuitEndpointEntry 21 }

interworkingCircuitEndpointZeroCIREnabled OBJECT-TYPE
        SYNTAX INTEGER {
       off(1),
       on(2)
        }
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION "."
    ::= { interworkingCircuitEndpointEntry 22}

interworkingCircuitEndpointSlotId OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION "Slot ID where the enpoint resides."
    ::= { interworkingCircuitEndpointEntry 23}

interworkingCircuitEndpointPPortId OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION "PPort ID where the endpoint resides."
    ::= { interworkingCircuitEndpointEntry 24}
```

C500 ATM Circuit Endpoint Table

```
--
-- C500 ATM Circuit Endpoint table - contains instances of circuit
endpoints on C500 switches.
--

atmCircuitEndpointTable OBJECT-TYPE
    SYNTAX SEQUENCE OF AtmCircuitEndpointEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
    "A list of ATM circuit entries."
    ::= { circuitConfiguration 3 }

atmCircuitEndpointEntry OBJECT-TYPE
    SYNTAX AtmCircuitEndpointEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
    "Attributes associated with an ATM circuit with endpoints on CBX
     switches."
    INDEX  {switchIdIndex,
            lportIfIndex,
            vpiIndex,
            vciIndex}

    ::= { atmCircuitEndpointTable 1 }


--  Traffic attribute Rules:
-- Note that the combination of traffic attributes Priority, PCR, SCR and
-- MBS allowed depends on the QosClass and TrafficType selected. The
-- following table presents allowable traffic attribute combinations.
--
-- TrafficTypes: type1- PCR CLP=0+1, SCR CLP=0, MBS CLP=0
--                      type2- PCR CLP=0+1, SCR CLP=0, MBS CLP=0, Tagging
--                      type3- PCR CLP=0+1, SCR CLP=0+1, MBS CLP=0+1
--
--
--  Qos/TrafficType     Priority   PCR              SCR           MBS
--  ------------------------------------------------------------------------
---
--  CBR/type1           N/A        CLP=0, CLP=0+1   N/A           N/A
--  CBR/type2           N/A        CLP=0, CLP=0+1   N/A           N/A
--  CBR/type3           N/A        CLP=0+1          N/A           N/A
--
-- VBR-R/type1          1-4        CLP=0+1          CLP=0         CLP=0
-- VBR-R/type2          1-4        CLP=0+1          CLP=0         CLP=0
-- VBR-R/type3          1-4        CLP=0+1          CLP=0+1       CLP=0+1
--
-- VBR-NR/type1         1-4        CLP=0+1          CLP=0         CLP=0
-- VBR-NR/type2         1-4        CLP=0+1          CLP=0         CLP=0
-- VBR-NR/type3         1-4        CLP=0+1          CLP=0+1       CLP=0+1
```

```
--
-- UBR/type1            N/A        CLP=0+1          N/A           N/A

AtmCircuitEndpointEntry ::=
  SEQUENCE {
    atmCircuitEndpointCircuitNumber
       Integer32,
    atmCircuitEndpointTrafficDescrParam1
      Integer32,
    atmCircuitEndpointTrafficDescrParam2
      Integer32,
    atmCircuitEndpointTrafficDescrParam3
      Integer32,
    atmCircuitEndpointTrafficDescrParam4
      Integer32,
    atmCircuitEndpointTrafficDescrParam5
      Integer32,
    atmCircuitEndpointTrafficDescrType
      INTEGER,
    atmCircuitEndpointQosClass
      INTEGER,
    atmCircuitEndpointFcpDiscard
      INTEGER ,
    atmCircuitEndpointGracefulDiscard
      INTEGER,
    atmCircuitEndpointCircuitPriority
      Integer32,
    atmCircuitEndpointRateEnfScheme
      INTEGER,
    atmCircuitEndpointModifyType
      INTEGER,
    atmCircuitEndpointRowStatus
      RowStatus,
    atmCircuitEndpointDeltaBc
      Integer32,
    atmCircuitEndpointDeltaBe
       Integer32,
    atmCircuitEndpointRedFramePercent
      Integer32,
    atmCircuitEndpointSlotId
       Integer32,
    atmCircuitEndpointPPortId
       Integer32
}

atmCircuitEndpointCircuitNumber OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION "The number of the circuit which this endpoint terminates.
    This is used as the index into the circuitCrossConnectTable."
    ::= { atmCircuitEndpointEntry 1}

atmCircuitEndpointTrafficDescrParam1 OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "The Traffic Descriptor parameter 1"
    ::= { atmCircuitEndpointEntry 2}

atmCircuitEndpointTrafficDescrParam2 OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "The Traffic Descriptor parameter 2"
    ::= { atmCircuitEndpointEntry 3}

atmCircuitEndpointTrafficDescrParam3 OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "The Traffic Descriptor parameter 3"
    ::= { atmCircuitEndpointEntry 4}

atmCircuitEndpointTrafficDescrParam4 OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "The Traffic Descriptor parameter 4"
    ::= { atmCircuitEndpointEntry 5}

atmCircuitEndpointTrafficDescrParam5 OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "The Traffic Descriptor parameter 5"
    ::= { atmCircuitEndpointEntry 6}


atmCircuitEndpointTrafficDescrType OBJECT-TYPE
    SYNTAX INTEGER {
    pcrClp0PcrClp01(1),
    pcrClp0PcrClp01Tagging(2),
    pcrClp01ScrClp0MbsClp0(3),
    pcrClp01ScrClp0MbsClp0Tagging(4),
    pcrClp01(5),
    pcrClp01ScrClp01MbsClp01(6),
    pcrClp01BestEffort(7),
    pcrClp0McrClp0(8),
    bestEffort(9)
    }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "AtmCircuit Traffic Descriptor Type."
    ::= { atmCircuitEndpointEntry 7}

atmCircuitEndpointQosClass OBJECT-TYPE
    SYNTAX INTEGER {
```

```
        cbr (1),
        vbrRealTime (2),
        vbrNonRealTime (3),
        ubr (4),
        abr (5),
        unspCbr (6),
        unspVbrNonRealTime (7),
        unspBestEffort (8)
        }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "AtmCircuit Quality of Service."
    ::= { atmCircuitEndpointEntry 8}

atmCircuitEndpointFcpDiscard OBJECT-TYPE
    SYNTAX INTEGER { epd (1), clp1 (2) }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION ""
    DEFVAL {epd}
    ::= { atmCircuitEndpointEntry 9}

atmCircuitEndpointGracefulDiscard OBJECT-TYPE
    SYNTAX INTEGER {
      off(1),
      on(2)
    }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "This variable states whether graceful discard is enabled
                 for the circuit."
    ::= { atmCircuitEndpointEntry 10}

atmCircuitEndpointCircuitPriority OBJECT-TYPE
    SYNTAX Integer32 (0..4)
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION ""
    ::= { atmCircuitEndpointEntry 11}

atmCircuitEndpointRateEnfScheme OBJECT-TYPE
    SYNTAX INTEGER {
     jump(1),
     simple(2)
    }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "This variable states the maximum segment size for the
    network."
    ::= { atmCircuitEndpointEntry 12}

atmCircuitEndpointModifyType OBJECT-TYPE
        SYNTAX INTEGER { normal(1), dbOnly(4), dbOnlySetOutOfSync(5) }
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
        "By default, writes are stored to the database and the switch.
        Set this to dbOnly to send writes only to the database.
        dbOnlySetOutOfSync sends writes to the database and sets the
        Out of Sync flag in the database.
        This value is re-set to normal after every transaction."
        DEFVAL {normal}
        ::= { atmCircuitEndpointEntry 13 }

atmCircuitEndpointRowStatus OBJECT-TYPE
        SYNTAX RowStatus
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
        "Row status active(1) - Row is currently usable.
         notInService(2) - Row has been created and initialized but not
         made active by client.
         notReady(3) - Row has been created but contains ‘holes’, waiting
         for client to finish.
         createAndGo(4) - Not supported.
         createAndWait(5) - Create new row.
         destroy(6) - Delete an existing row."

        ::= { atmCircuitEndpointEntry 14 }

atmCircuitEndpointDeltaBc OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
        "The maximum number of bits that the network agree to transfer
        over the circuit as committed bits during the measurement
        interval under the CONDITION that the circuit still has POSITIVE
        committed bit (Bc) credits before receiving a frame but will have
        NEGATIVE Bc credits after accepting the frame. The range of this
        variable is 0 to 65,528 bits. By default, if not configured when
        creating the entry, it is set to 65,528 bits."
        ::= { atmCircuitEndpointEntry 15 }

atmCircuitEndpointDeltaBe OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
        "The maximum number of bits that the network agree to transfer
         over the circuit as allowed excess bits during the measurement
         interval under the CONDITION that the circuit still has POSITIVE
         excess bit (Be) credits before receiving a frame but will have
         NEGATIVE Be credits after accepting the frame. The range of this
         variable is 0 to 65,528 bits. By default, if not configured when
         creating the entry, it is set to 65,528 bits."
        ::= { atmCircuitEndpointEntry 16 }
```

```
atmCircuitEndpointRedFramePercent OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
         "The percentage of RED frame bits that are allowed to enter the
         network, during the measurement interval, under non-congestion
         condition. Its value range is 0 - 100 and default value is 100.
         Its calculation is as follows:

         cktRedFrPcn = (allowed RED frame bits)/(Bc+Be+allowed RED frame
         bits)"
        ::= { atmCircuitEndpointEntry 17 }

atmCircuitEndpointSlotId OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION "Slot ID where the enpoint resides."
        ::= { atmCircuitEndpointEntry 18}

atmCircuitEndpointPPortId OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION "PPort ID where the endpoint resides."
    ::= { atmCircuitEndpointEntry 19}
```

Frame Relay Circuit Table

```
-- Frame Relay Circuit table - contains instances of Frame Relay  circuit
-- endpoints
--

frCircuitEndpointTable OBJECT-TYPE
    SYNTAX SEQUENCE OF FrCircuitEndpointEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
           "A list of Frame Relay circuit entries."
    ::= { circuitConfiguration 4 }

frCircuitEndpointEntry OBJECT-TYPE
    SYNTAX FrCircuitEndpointEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
    "A group of attributes associated with a Frame Relay circuit
     endpoint."
    INDEX  {switchIdIndex,
            lportIfIndex,
            dlciIdIndex}

    ::= { frCircuitEndpointTable 1 }

frCircuitEndpointEntry ::=
  SEQUENCE {
    frCircuitEndpointCircuitNumber
     Integer32,
    frCircuitEndpointCir
      Integer32,
    frCircuitEndpointBc
      Integer32,
    frCircuitEndpointDeltaBc
      Integer32,
    frCircuitEndpointBe
      Integer32,
    frCircuitEndpointDeltaBe
      Integer32,
    frCircuitEndpointGracefulDiscard
      INTEGER,
    frCircuitEndpointRateEnfScheme
      INTEGER,
    frCircuitEndpointRedFramePercent
      Integer32,
    frCircuitEndpointZeroCIREnabled
      INTEGER,
    frCircuitEndpointCircuitPriority
      Integer32,
    frCircuitEndpointQosClass
      INTEGER,
    frCircuitEndpointRowStatus
      RowStatus,
    frCircuitEndpointModifyType
      INTEGER,
    frCircuitEndpointSlotId
        Integer32,
    frCircuitEndpointPPortId
        Integer32
}

frCircuitEndpointCircuitNumber OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION "The number of the circuit which this endpoint terminates.
    This is used as the index into the circuitCrossConnectTable."
    ::= { frCircuitEndpointEntry 1}

frCircuitEndpointCir OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "Committed Information Rate "
    ::= { frCircuitEndpointEntry 2}

frCircuitEndpointBc OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
```

```
    STATUS current
    DESCRIPTION "Committeed Burst Size, in bits"
    ::= { frCircuitEndpointEntry 3}

frCircuitEndpointDeltaBc OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
    "The maximum number of bits that the network agree to transfer
     over the circuit as committed bits during the measurement
     interval under the CONDITION that the circuit still has POSITIVE
     committed bit (Bc) credits before receiving a frame but will have
     NEGATIVE Bc credits after accepting the frame. The range of this
     variable is 0 to 65,528 bits. By default, if not configured when
     creating the entry, it is set to 65,528 bits."
    ::= { frCircuitEndpointEntry 4}

frCircuitEndpointBe OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "Excess Burst size, in bits."
    ::= { frCircuitEndpointEntry 5}

frCircuitEndpointDeltaBe OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
    "The maximum number of bits that the network agree to transfer
     over the circuit as allowed excess bits during the measurement
     interval under the CONDITION that the circuit still has POSITIVE
     excess bit (Be) credits before receiving a frame but will have
     NEGATIVE Be credits after accepting the frame. The range of this
     variable is 0 to 65,528 bits. By default, if not configured when
     creating the entry, it is set to 65,528 bits."
    ::= { frCircuitEndpointEntry 6}

frCircuitEndpointGracefulDiscard OBJECT-TYPE
    SYNTAX INTEGER {
      off(1),
      on(2)
    }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "This variable states whether graceful discard is enabled
    for the circuit endpoint."
    ::= { frCircuitEndpointEntry 7}

frCircuitEndpointCircuitPriority OBJECT-TYPE
    SYNTAX Integer32 (0..4)
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "."
    ::= {frCircuitEndpointEntry 8}

frCircuitEndpointRateEnfScheme OBJECT-TYPE
    SYNTAX INTEGER {
     jump(1),
     simple(2)
    }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "This variable states the maximum segment size for the
    network."
    ::= { frCircuitEndpointEntry 9}

frCircuitEndpointRedFramePercent OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
    "The percentage of RED frame bits that are allowed to enter the
     network, during the measurement interval, under non-congestion
     condition. Its value range is 0 - 100 and default value is 100.
     Its calculation is as follows:

     cktRedFrPcn = (allowed RED frame bits)/(Bc+Be+allowed RED frame
     bits)"
    ::= { frCircuitEndpointEntry 10}

frCircuitEndpointZeroCIREnabled OBJECT-TYPE
    SYNTAX INTEGER {
       off(1),
       on(2)
    }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "."
    ::= { frCircuitEndpointEntry 11}

frCircuitEndpointQosClass OBJECT-TYPE
    SYNTAX INTEGER {
        cbr (1),
        vbrRealTime (2),
        vbrNonRealTime (3),
        ubr (4),
        abr (5),
        unspCbr (6),
        unspVbrNonRealTime (7),
        unspBestEffort (8)
        }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "AtmCircuit Quality of Service."
    ::= { frCircuitEndpointEntry 12}
```

```
frCircuitEndpointModifyType OBJECT-TYPE
        SYNTAX          INTEGER { normal(1), dbOnly(4),
        dbOnlySetOutOfSync(5) }
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
        "By default, writes are stored to the database and the switch.
        Set this to dbOnly to send writes only to the database.
        dbOnlySetOutOfSync sends writes to the database and sets the
        Out of Sync flag in the database.
        This value is re-set to normal after every transaction."
        DEFVAL {normal}
        ::= { frCircuitEndpointEntry 13 }

frCircuitEndpointRowStatus OBJECT-TYPE
        SYNTAX          RowStatus
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
        "Row status active(1) - Row is currently usable.
         notInService(2) - Row has been created and initialized but not
         made active by client.
         notReady(3) - Row has been created but contains 'holes', waiting
         for client to finish.
         createAndGo(4) - Not supported.
         createAndWait(5) - Create new row.
         destroy(6) - Delete an existing row."

        ::= { frCircuitEndpointEntry 14 }

frCircuitEndpointSlotId OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION "Slot ID where the enpoint resides."
        ::= { frCircuitEndpointEntry 15}

frCircuitEndpointPPortId OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION "PPort ID where the endpoint resides."
        ::= {frCircuitEndpointEntry 16}
```

Circuit Cross-Connect Table

```
-- Circuit Cross-Connect table - contains instances of circuit objects
--

circuitCrossConnectTable OBJECT-TYPE
    SYNTAX SEQUENCE OF CircuitCrossConnectEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
           "A list of admin circuit entries."
    ::= { circuitConfiguration 5 }

circuitCrossConnectEntry OBJECT-TYPE
    SYNTAX CircuitCrossConnectEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
           "A group of attributes associated with all circuit types."
    INDEX  {circuitIndex}
    ::= { circuitCrossConnectTable 1 }

CircuitCrossConnectEntry ::=
  SEQUENCE {
    circuitCrossConnectSwitchId1
      IpAddress,
    circuitCrossConnectIfIndex1
      Integer32,
    circuitCrossConnectDLCI1
      Integer32,
    circuitCrossConnectVPI1
      Integer32,
    circuitCrossConnectVCI1
      Integer32,
    circuitCrossConnectSwitchId2
      IpAddress,
    circuitCrossConnectIfIndex2
      Integer32,
    circuitCrossConnectDLCI2
      Integer32,
    circuitCrossConnectVPI2
      Integer32,
    circuitCrossConnectVCI2
      Integer32,
    circuitCrossConnectCircuitName
      DisplayString,
    circuitCrossConnectSegmentSize
      Integer32,
    circuitCrossConnectTranslationType
      INTEGER,
    circuitCrossConnectAdminStatus
      INTEGER,
    circuitCrossConnectBandwidthPriority
      Integer32,
    circuitCrossConnectBumpingPriority
      Integer32,
    circuitCrossConnectUpcFunction
      INTEGER,
    circuitCrossConnectCDVTolerance
      Integer32,
    circuitCrossConnectOAMAlarmsEnabled
      INTEGER,
    circuitCrossConnectCellLossPriority
      INTEGER,
    circuitCrossConnectDiscardEligibility
```

```
      INTEGER,
    circuitCrossConnectVpnName
      DisplayString,
    circuitCrossConnectCustomerName
      DisplayString,
    circuitCrossConnectPrivateNetOverflow
      INTEGER,
     circuitCrossConnectRerouteBalancing
      INTEGER,
    circuitCrossConnectCircuitType
      INTEGER,
    circuitCrossConnectRowStatus
      RowStatus,
    circuitCrossConnectModifyType
      INTEGER,
    circuitCrossConnectEndpoint1
      INTEGER,
    circuitCrossConnectEndpoint2
      INTEGER,
    circuitCrossConnectNetworkId1
      IpAddress,
    circuitCrossConnectServiceName1
      DisplayString,
    circuitCrossConnectNetworkId2
      IpAddress,
    circuitCrossConnectServiceName2
      DisplayString
  }

circuitCrossConnectSwitchId1 OBJECT-TYPE
    SYNTAX IpAddress
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "IP Address of circuit endpoint 1. This may not be
    changed after circuit creation."
    ::= { circuitCrossConnectEntry 1}

circuitCrossConnectIfIndex1 OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION "LPort interface number of circuit endpoint 1."
    ::= { circuitCrossConnectEntry 2}

circuitCrossConnectDLCI1 OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION "DLCI of circuit endpoint 1 (if applicable)."
    ::= { circuitCrossConnectEntry 3}

circuitCrossConnectVPI1 OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION " VPI of circuit endpoint 1 (if applicable)."
    ::= { circuitCrossConnectEntry 4}

circuitCrossConnectVCI1 OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION " VCI of circuit endpoint 1 (if applicable)."
    ::= { circuitCrossConnectEntry 5}

circuitCrossConnectSwitchId2 OBJECT-TYPE
    SYNTAX IpAddress
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION "IP Address of circuit endpoint 2."
    ::= { circuitCrossConnectEntry 6}

circuitCrossConnectIfIndex2 OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION "LPort interface number of circuit endpoint 2."
    ::= { circuitCrossConnectEntry 7}

circuitCrossConnectDLCI2 OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION "DLCI of circuit endpoint 2 (if applicable)."
    ::= { circuitCrossConnectEntry 8}

circuitCrossConnectVPI2 OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION " VPI of circuit endpoint 2 (if applicable)."
    ::= { circuitCrossConnectEntry 9}

circuitCrossConnectVCI2 OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION " VCI of circuit endpoint 2 (if applicable)."
    ::= { circuitCrossConnectEntry 10}

circuitCrossConnectCircuitName OBJECT-TYPE
    SYNTAX DisplayString
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "Name of circuit. This attribute is mandatory for circuit
    creation but cannot be modified."
    ::= { circuitCrossConnectEntry 11}
```

```
circuitCrossConnectSegmentSize OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "circuit segment size "
    DEFVAL {0}
    ::= { circuitCrossConnectEntry 12}

circuitCrossConnectTranslationType OBJECT-TYPE
    SYNTAX INTEGER {
      none(1),
      xlation1490and1483(2),
      xlation1483and1490(3)
    }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "circuit translation type"
    ::= { circuitCrossConnectEntry 13}

circuitCrossConnectAdminStatus OBJECT-TYPE
    SYNTAX INTEGER {
      down(1),
      up(2)
    }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "Administrative Status for the Circuit. This attribute is
    mandatory for circuit creation and also can be modified. "
    ::= { circuitCrossConnectEntry 14}

circuitCrossConnectBandwidthPriority OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "circuit bandwidth priority"
    DEFVAL {0}
    ::= { circuitCrossConnectEntry 15}

circuitCrossConnectBumpingPriority OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION " bumping priority."
    DEFVAL {0}
    ::= { circuitCrossConnectEntry 16}

circuitCrossConnectUpcFunction OBJECT-TYPE
    SYNTAX INTEGER {
       disabled(1),
       enabled(2)
    }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "This attribute is mandatory for circuit creation and
    also can be modified."
    ::= { circuitCrossConnectEntry 17}

circuitCrossConnectCDVTolerance OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "This attribute is mandatory for circuit creation and
    also can be modified."
    ::= { circuitCrossConnectEntry 18}

circuitCrossConnectOAMAlarmsEnabled OBJECT-TYPE
    SYNTAX INTEGER {
        disabled(1),
        enabled(2)
     }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "1 indicates OAM alarms are disabled; 2 indicates they
    are enabled. This attribute is mandatory for circuit creation and
    also can be modified."
    ::= { circuitCrossConnectEntry 19}

circuitCrossConnectCellLossPriority OBJECT-TYPE
    SYNTAX INTEGER { clp0 (1), clp1(2), fr_de(3) }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "0 indicates CLP is disabled;
                 1 indicates CLP is enabled.
                 2 indicates that CLP is set to whatever DE is set to.
                 This attribute is mandatory for circuit creation and
                 also can be modified. "
    ::= { circuitCrossConnectEntry 20}

circuitCrossConnectDiscardEligibility OBJECT-TYPE
    SYNTAX INTEGER { de0(1), de1(2), atm_clp(3) }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "0 indicates DE is disabled;
                 1 indicates DE is enabled.
                 2 indicates that DE is set to whatever CLP is set to."
    ::= { circuitCrossConnectEntry 21}

circuitCrossConnectVpnName OBJECT-TYPE
    SYNTAX DisplayString
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "Circuit VPN name"
    ::= { circuitCrossConnectEntry 22}

circuitCrossConnectCustomerName OBJECT-TYPE
    SYNTAX DisplayString
    MAX-ACCESS read-write
    STATUS current
```

```
    DESCRIPTION "customer name"
    ::= { circuitCrossConnectEntry 23}

circuitCrossConnectPrivateNetOverflow OBJECT-TYPE
    SYNTAX INTEGER {
        restricted(1),
        public(2)
    }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "This attribute is mandatory for circuit creation and
    also can be modified."
    ::= { circuitCrossConnectEntry 24}

circuitCrossConnectRerouteBalancing OBJECT-TYPE
    SYNTAX INTEGER {
      enabled(1),
      disabled(2)
    }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "circuit reroute balancing."
    ::= { circuitCrossConnectEntry 25}

circuitCrossConnectCircuitType OBJECT-TYPE
    SYNTAX INTEGER {
        vpc(1),
        vcc(2)
    }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "Circuit type for ATM Cell-Based Circuits."
    ::= { circuitCrossConnectEntry 26}

circuitCrossConnectRowStatus OBJECT-TYPE
        SYNTAX RowStatus
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
           "Row status active(1) - Row is currently usable.
            notInService(2) - Row has been created and initialized but
            not made active by client.
            notReady(3) - Row has been created but contains holes,
            waiting for client to finish.
            createAndGo(4) - Not supported.
            createAndWait(5) - Create new row.
            destroy(6) - Delete an existing row.

        The following attributes are mandatory to create a new ATM
        circuit (on a CBX):

        ================================================================

        circuitCrossConnectAdminStatus, circuitCrossConnectUpcFunction,
        circuitCrossConnectCDVTolerance,
        circuitCrossConnectOAMAlarmsEnabled,
        circuitCrossConnectPrivateNetOverflow "

        ::= { circuitCrossConnectEntry 27 }

circuitCrossConnectModifyType OBJECT-TYPE
        SYNTAX INTEGER { normal(1), dbOnly(4), dbOnlySetOutOfSync(5) }
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
        "By default, writes are stored to the database and the switch.
        Set this to dbOnly to send writes only to the database.
        dbOnlySetOutOfSync sends writes to the database and sets the
        Out of Sync flag in the database.
        This value is re-set to normal after every transaction."
        DEFVAL {normal}
        ::= { circuitCrossConnectEntry 28 }

circuitCrossConnectEndpoint1 OBJECT-TYPE
        SYNTAX INTEGER {
                frame_relay (1),
                smds (2),
                atm (3),
                other (4)
                }
        MAX-ACCESS read-only
        STATUS current
        DESCRIPTION
        "The lport service type of circuit endpoint 1"
        ::= { circuitCrossConnectEntry 29 }

circuitCrossConnectEndpoint2 OBJECT-TYPE
        SYNTAX  INTEGER {
                frame_relay (1),
                smds (2),
                atm (3),
                other (4)
                }
        MAX-ACCESS      read-only
        STATUS current
        DESCRIPTION
        "The lport service type of circuit endpoint 1"
        ::= { circuitCrossConnectEntry 30 }

circuitCrossConnectNetworkId1 OBJECT-TYPE
    SYNTAX IpAddress
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
    " The Network Number of the Endpoint if the first lport used to create
      this circuit has a Service Name binding."
    ::= { circuitCrossConnectEntry 31 }
```

```
circuitCrossConnectServiceName1 OBJECT-TYPE
    SYNTAX DisplayString
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
    " The Service Name of the Endpoint if the first lport used to create
      this circuit has a Service Name binding. "
    ::= { circuitCrossConnectEntry 32 }

circuitCrossConnectNetworkId2 OBJECT-TYPE
    SYNTAX IpAddress
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
    " The Network Number of the Endpoint if the second lport used to
      create this circuit has a Service Name binding."
    ::= { circuitCrossConnectEntry 33 }

circuitCrossConnectServiceName2 OBJECT-TYPE
    SYNTAX DisplayString
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
    " The Service Name of the Endpoint if the second lport used to create
      this circuit has a Service Name binding. "
    ::= { circuitCrossConnectEntry 34 }
```

Circuit Root Table

```
-- Circuit root table - contains instances of circuit root objects
-- containing point - multipoint attributes.
--

circuitPmpRootTable OBJECT-TYPE
    SYNTAX SEQUENCE OF CircuitPmpRootEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
           "A list of root circuit entries."
    ::= { circuitConfiguration 6}

circuitPmpRootEntry OBJECT-TYPE
    SYNTAX CircuitPmpRootEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
           "A group of attributes associated with a root circuit."
    INDEX  {switchIdIndex,
            lportIfIndex,
            vpiIndex,
            vciIndex}
    ::= { circuitPmpRootTable 1 }

CircuitPmpRootEntry ::=
  SEQUENCE {
    circuitPmpRootSlotId
        Integer32,
    circuitPmpRootPportId
        Integer32,
    circuitPmpRootLportId
        Integer32,
    circuitPmpRootRootName
        DisplayString,
    circuitPmpRootTrafficDescrParam1
        Integer32,
    circuitPmpRootTrafficDescrParam2
        Integer32,
    circuitPmpRootTrafficDescrParam3
        Integer32,
    circuitPmpRootQosClass
        INTEGER,
    circuitPmpRootRerouteBalancing
        INTEGER,
    circuitPmpRootPriority
        Integer32,
    circuitPmpRootCdvTolerance
        Integer32,
    circuitPmpRootCircuitType
        INTEGER,
    circuitPmpRootRowStatus
        RowStatus,
    circuitPmpRootModifyType
        INTEGER,
    circuitPmpRootAcctChrgPartyId
        OCTET STRING,
    circuitPmpRootAcctUsageMeasure
        INTEGER,
    circuitPmpRootAcctPvcControl
        INTEGER,
    circuitPmpRootPrivateNetOverflow
        INTEGER,
    circuitPmpRootTrafficDescrType
        INTEGER,
    circuitPmpRootNdcEnable
        INTEGER,
    circuitPmpRootTotalPVCsEnabledOnCard
        Integer32,
    circuitPmpRootLimitOfPVCsEnabledOnCard
        Integer32,
    circuitPmpRootClp0CellThresh1
        Integer32,
    circuitPmpRootClp1CellThresh1
        Integer32
}

circuitPmpRootSlotId OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-only
    STATUS current
```

```
    DESCRIPTION "Slot Id."
    ::= { circuitPmpRootEntry 1}

circuitPmpRootPportId OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION "Pport Id."
    ::= { circuitPmpRootEntry 2}

circuitPmpRootLportId OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION "Lport Id."
    ::= { circuitPmpRootEntry 3}

circuitPmpRootRootName OBJECT-TYPE
    SYNTAX DisplayString
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "Name of root circuit. The attribute cannot be modified
    after creation."
    ::= { circuitPmpRootEntry 4}

circuitPmpRootTrafficDescrParam1 OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "The Traffic Descriptor parameter 1.
    The attribute cannot be modified after creation."
    ::= { circuitPmpRootEntry 5}

circuitPmpRootTrafficDescrParam2 OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "The Traffic Descriptor parameter 2.
      The attribute cannot be modified after creation."
    ::= { circuitPmpRootEntry 6}

circuitPmpRootTrafficDescrParam3 OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "The Traffic Descriptor parameter 3.
      The attribute cannot be modified after creation."
    ::= { circuitPmpRootEntry 7}

circuitPmpRootQosClass OBJECT-TYPE
    SYNTAX INTEGER {
        cbr (1),
        vbrRealTime (2),
        vbrNonRealTime (3),
        ubr (4),
        abr (5),
        unspCbr (6),
        unspVbrNonRealTime (7),
        unspBestEffort (8)
        }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "The Quality of Service of ATM/Cascade connection.
      The attribute cannot be modified after creation."
    DEFVAL {cbr}
    ::= { circuitPmpRootEntry 8}

circuitPmpRootRerouteBalancing OBJECT-TYPE
    SYNTAX INTEGER { enabled (1), disabled(2) }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "Setting this variable controls the use of rerouting to
                balance link usage."
    DEFVAL {enabled}
    ::= { circuitPmpRootEntry 9}

circuitPmpRootPriority  OBJECT-TYPE
    SYNTAX Integer32 (0..4)
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "The Circuit Priority level for the connection.

                valid ranges :
                For VBR Real Time QOS Class     - 1 to 4.
                For VBR Non-Real Time QOS Class - 1 to 3.
    The attribute cannot be modified after creation."
    ::= { circuitPmpRootEntry 10}

circuitPmpRootCdvTolerance OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "The Cell Delay Variation Tolerance for the Point to
    MultiPoint Circuit"
    DEFVAL {600}
    ::= { circuitPmpRootEntry 11}

circuitPmpRootCircuitType OBJECT-TYPE
    SYNTAX INTEGER { vpc(1), vcc(2) }
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION "Type of circuit."
    DEFVAL {vcc}
    ::= { circuitPmpRootEntry 12}

circuitPmpRootRowStatus OBJECT-TYPE
    SYNTAX RowStatus
    MAX-ACCESS read-write
```

```
    STATUS current
    DESCRIPTION
        "Row status active(1) - Row is currently usable.
        notInService(2) - Row has been created and initialized but not
                          made active by client.
        notReady(3) - Row has been created but contains holes,
                      waiting for client to finish.
        createAndGo(4) - Not supported.
        createAndWait(5) - Create new row.
        destroy(6) - Delete an existing row."
        ::= { circuitPmpRootEntry 13}

circuitPmpRootModifyType OBJECT-TYPE
    SYNTAX INTEGER { normal(1), dbOnly(4), dbOnlySetOutOfSync(5) }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "By default, writes are stored to the database and the switch.
        Set this to dbOnly to send writes only to the database.
        dbOnlySetOutOfSync sends writes to the database and sets the
        Out of Sync flag in the database.
        This value is re-set to normal after every transaction."
        DEFVAL {normal}
        ::= { circuitPmpRootEntry 14 }

circuitPmpRootAcctChrgPartyId OBJECT-TYPE
    SYNTAX OCTET STRING(SIZE(1..16))
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "This object defines a 1 to 16 digit decimal chargeable
                party for this ATM PVC, per Bellcore GR-1110-CORE.

                Note: this object is read-only after initial provisioning
                of the circuit."
    ::= { circuitPmpRootEntry 15}

circuitPmpRootAcctUsageMeasure OBJECT-TYPE
    SYNTAX INTEGER {
                    disabled (1),
                    egress   (2),
                    ingress  (3),
                    enabled  (4)
                   }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "This object is used to enable or disable the recording of
                usage counts (e.g., cell or frame counts) for an ATM PVC.

                disabled = No usage counts are generated for this circuit
                egress   = Egress usage counts are generated, where egress
                           refers to data sent to the user (on a UNI) or
                           to the network (on a network interface).
                ingress  = Ingress usage counts are generated, where
                           ingress refers to data received from the user
                           (on a UNI) or from the network (on a network
                           interface).
                enabled  = Both ingress and egress counts are generated

                Note: usage records are not generated if PVC Recording
                (circuitPmpRootAcctPvcControl) is disabled.

                This object is defined at the user (UNI) and network
                interfaces (B-ICI and NNI).

                The default value of this object is disabled(1) at the UNI
                and disabled(1) at the network interface.

                Note: this object is read-only after initial provisioning
                of the circuit."
    ::= { circuitPmpRootEntry 16}

circuitPmpRootAcctPvcControl OBJECT-TYPE
    SYNTAX INTEGER {
                disabled (1),
                enabled  (2),
                study    (3)
            }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "This object is used to enable or disable ATM PVC
                recording for accounting purposes.

                disabled = The PVC will not be recorded at this interface
                enabled  = The PVC will be recorded at this interface
                study    = The PVC will be recorded and marked as study
                           (as defined by Bellcore GR-1110-CORE)

                This object is defined at the user (UNI) and network
                interfaces (B-ICI and NNI).

                The default value of this object is enabled(2) at the UNI
                and enabled(2) at the network interface."
    ::= { circuitPmpRootEntry 17}

circuitPmpRootPrivateNetOverflow OBJECT-TYPE
    SYNTAX INTEGER { restricted(1), public(2) }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "Indicates how private network circuits are handled,
                when the resources of the network have become exhausted.
                If set to public, the resources of the public network
                can be used during overflow conditions.The attribute
                cannot be modified after creation."
    DEFVAL {public}
    ::= { circuitPmpRootEntry 18}

circuitPmpRootTrafficDescrType OBJECT-TYPE
    SYNTAX INTEGER {
```

```
            pcrClp0PcrClp01 (1),
            pcrClp0PcrClp01Tagging (2),
            pcrClp01ScrClp0MbsClp0 (3),
            pcrClp01ScrClp0MbsClp0Tagging (4),
            pcrClp01 (5),
            pcrClp01ScrClp01MbsClp01 (6),
            pcrClp01BestEffort (7),
            pcrClp0McrClp0 (8),
            bestEffort (9)
            }

    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "The combination of traffic parameters for the circuit.
                 The attribute cannot be modified after creation."
    DEFVAL {pcrClp0PcrClp01}
    ::= { circuitPmpRootEntry 19}

circuitPmpRootNdcEnable OBJECT-TYPE
    SYNTAX INTEGER { off (1), on(2) }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "Enable/disable Network Data Collection for a PVC on an
    IOM."
    ::= { circuitPmpRootEntry 20}

circuitPmpRootTotalPVCsEnabledOnCard OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION "Total PVCs enabled on this card."
    ::= { circuitPmpRootEntry 21}

circuitPmpRootLimitOfPVCsEnabledOnCard OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION "Limit of NDC monitored PVCs on the card."
    ::= { circuitPmpRootEntry 22}

circuitPmpRootClp0CellThresh1 OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "A count of user+OAM CLP=0 cells incoming on a circuit,
                 discarded due to UPC/NPC policing within the Network Data
                 Collection current 15-minute interval. An alarm is
                 issued once in the current interval upon crossing of
                 that threshold provided that the threshold is greater
                 than 0 (default)."
    ::= { circuitPmpRootEntry 23}

circuitPmpRootClp1CellThresh1 OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
         "A threshold count of user+OAM CLP=0+1 cells incoming on a
          circuit, discarded due to UPC/NPC policing within the Network
          Data Collection current 15-minute interval. An alarm is issued
          once in the current interval upon crossing of that threshold
          provided that the threshold is greater than 0 (default)."

    ::= { circuitPmpRootEntry 24}
```

Circuit Leaf Table

```
-- Circuit Leaf table - contains instances of circuit leaf objects
-- associated with point to multipoint circuits.
--

circuitPmpLeafTable OBJECT-TYPE
    SYNTAX SEQUENCE OF CircuitPmpLeafEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "A list of leaf circuit entries. Note that although this table
        uses both the leaf and the root as indeces,
        each leaf can only be used once; that is, the
        {switchIdIndex, lportIfIndex, vpiIndex,vciIndex} tuple must be
        unique for each entry in the table."
    ::= { circuitConfiguration 7 }

circuitPmpLeafEntry OBJECT-TYPE
    SYNTAX CircuitPmpLeafEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
           "A group of attributes associated with a leaf circuit."
    INDEX  { switchIdIndex,     -- IP Address of the circuit root
             lportIfIndex,      -- Interface number of the circuit root
             vpiIndex,          -- VPI of the circuit root
             vciIndex,         -- VCI of the circuit root
             circuitPmpLeafSwitchIdIndex, -- IP Address of the leaf
             circuitPmpLeafLportIfIndex, -- Interface number of the leaf
             circuitPmpLeafVpiIndex, -- VPI of the leaf
             circuitPmpLeafVciIndex -- VCI of the leaf
           }
    ::= { circuitPmpLeafTable 1 }

CircuitPmpLeafEntry ::=
  SEQUENCE {
    circuitPmpLeafAdminStatus
        INTEGER,
    circuitPmpLeafAcctChrgPartyId
        OCTET STRING,
    circuitPmpLeafAcctUsageMeasure
        INTEGER,
    circuitPmpLeafAcctPvcControl
```

```
        INTEGER,
    circuitPmpLeafRowStatus
        RowStatus,
    circuitPmpLeafModifyType
        INTEGER,
    circuitPmpLeafSwitchIdIndex
        IpAddress,
    circuitPmpLeafLportIfIndex
        Integer32,
    circuitPmpLeafVpiIndex
        Integer32,
    circuitPmpLeafVciIndex
        Integer32
}

circuitPmpLeafAdminStatus OBJECT-TYPE
    SYNTAX INTEGER {
        down(1),
        up(2)
    }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "The Admin Status of the Leaf"
    ::= { circuitPmpLeafEntry 1}

circuitPmpLeafAcctChrgPartyId OBJECT-TYPE
    SYNTAX OCTET STRING(SIZE(1..16))
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "This object defines a 1 to 16 digit decimal chargeable
                party for this ATM PVC, per Bellcore GR-1110-CORE.

                Note: this object is read-only after initial provisioning
                of the circuit."
    ::= { circuitPmpLeafEntry 2}

circuitPmpLeafAcctUsageMeasure OBJECT-TYPE
    SYNTAX INTEGER {
                    disabled (1),
                    egress   (2),
                    ingress  (3),
                    enabled  (4)
                  }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "This object is used to enable or disable the recording of
                usage counts (e.g., cell or frame counts) for an ATM PVC.

                disabled = No usage counts are generated for this circuit
                egress   = Egress usage counts are generated, where egress
                           refers to data sent to the user (on a UNI) or
                           to the network (on a network interface).
                ingress  = Ingress usage counts are generated, where
                           ingress refers to data received from the user
                           (on a UNI) or from the network (on a network
                           interface).
                enabled  = Both ingress and egress counts are generated

                Note: usage records are not generated if PVC Recording
                (circuitPmpLeafAcctPvcControl) is disabled.

                This object is defined at the user (UNI) and network
                interfaces (B-ICI and NNI).

                The default value of this object is disabled(1) at the UNI
                and disabled(1) at the network interface.

                Note: this object is read-only after initial provisioning
                of the circuit."

    ::= { circuitPmpLeafEntry 3}

circuitPmpLeafAcctPvcControl OBJECT-TYPE
    SYNTAX INTEGER {
                    disabled (1),
                    enabled  (2),
                    study    (3)
                   }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "This object is used to enable or disable ATM PVC
                recording for accounting purposes.

                disabled = The PVC will not be recorded at this interface
                enabled  = The PVC will be recorded at this interface
                study    = The PVC will be recorded and marked as study
                           (as defined by Bellcore GR-1110-CORE)

                This object is defined at the user (UNI) and network
                interfaces (B-ICI and NNI).

                The default value of this object is enabled(2) at the UNI
                and enabled(2) at the network interface."
    ::= { circuitPmpLeafEntry 4}

circuitPmpLeafRowStatus OBJECT-TYPE
    SYNTAX RowStatus
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "Row status active(1) - Row is currently usable.
        notInService(2) - Row has been created and initialized but not
                          made active by client.
        notReady(3) - Row has been created but contains ‘holes’,
                      waiting for client to finish.
        createAndGo(4) - Not supported.
        createAndWait(5) - Create new row.
        destroy(6) - Delete an existing row."
```

```
        ::= { circuitPmpLeafEntry 5}

circuitPmpLeafModifyType OBJECT-TYPE
    SYNTAX INTEGER { normal(1), dbOnly(4), dbOnlySetOutOfSync(5) }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "By default, writes are stored to the database and the switch.
        Set this to dbOnly to send writes only to the database.
        dbOnlySetOutOfSync sends
        writes to the database and sets the Out of Sync flag in the
        database. This value is re-set to normal after every transaction."
        DEFVAL {normal}
        ::= { circuitPmpLeafEntry 6 }

circuitPmpLeafSwitchIdIndex OBJECT-TYPE
    SYNTAX IpAddress
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION "Switch ID (index)."
    ::= { circuitPmpLeafEntry 7 }

circuitPmpLeafLportIfIndex OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION "Interface number ID (index)"
    ::= { circuitPmpLeafEntry 8 }

circuitPmpLeafVpiIndex OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION "Circuit VPI (index)"
    ::= { circuitPmpLeafEntry 9 }

circuitPmpLeafVciIndex OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION "Circuit VCI (index)"
    ::= { circuitPmpLeafEntry 10 }
```

AtmCircuitBillingTable

```
-- AtmCircuitBillingTable
-- contains the atm billing attributes for the CBX500 ATM switch

atmCircuitBillingTable OBJECT-TYPE
    SYNTAX SEQUENCE OF AtmCircuitBillingEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
    "contains the atm billing attributes for the CBX500 ATM switch."
    ::= { circuitConfiguration 8 }

atmCircuitBillingEntry OBJECT-TYPE
    SYNTAX AtmCircuitBillingEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
           "attributes associated with atm billing for an atm ckt"
    INDEX  {circuitIndex}
    ::= {atmCircuitBillingTable 1}

AtmCircuitBillingEntry ::=
  SEQUENCE {
    atmCircuitBillingCircuitName
        DisplayString,
    atmCircuitBillingAcctChrgPartyId1
        DisplayString,
    atmCircuitBillingAcctUsageMeasure1
        INTEGER,
    atmCircuitBillingAcctPvcControl1
        INTEGER,
    atmCircuitBillingAcctChrgPartyId2
        DisplayString,
    atmCircuitBillingAcctUsageMeasure2
        INTEGER,
    atmCircuitBillingAcctPvcControl2
        INTEGER,
    atmCircuitBillingRowStatus
        RowStatus,
    atmCircuitBillingModifyType
        INTEGER
  }

atmCircuitBillingCircuitName OBJECT-TYPE
    SYNTAX DisplayString
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION "Name of the atm circuit."
    ::= {atmCircuitBillingEntry 1}

atmCircuitBillingAcctChrgPartyId1 OBJECT-TYPE
    SYNTAX DisplayString
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "Chargeable party ID on logical port endpoint 1."
    ::= {atmCircuitBillingEntry 2}

atmCircuitBillingAcctUsageMeasure1 OBJECT-TYPE
    SYNTAX INTEGER {
                usageDisabled (1),
                usageEgress (2),
                usageIngress (3),
                usageEnabled (4)
                }
```

```
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION " Usage measure on logical port endpoint 1."
    ::= {atmCircuitBillingEntry 3}

atmCircuitBillingAcctPvcControl1 OBJECT-TYPE
    SYNTAX INTEGER {
                disabled (1),
                enabled (2),
                study (3)
                }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "PVC accounting on logical port endpoint 1."
     ::= {atmCircuitBillingEntry 4}

atmCircuitBillingAcctChrgPartyId2 OBJECT-TYPE
    SYNTAX DisplayString
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "Chargeable party ID on logical port endpoint 2."
    ::= {atmCircuitBillingEntry 5}

atmCircuitBillingAcctUsageMeasure2 OBJECT-TYPE
    SYNTAX INTEGER {
                usageDisabled (1),
                usageEgress (2),
                usageIngress (3),
                usageEnabled (4)
                }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "Usage measure on logical port endpoint 2."
    ::= {atmCircuitBillingEntry 6}

atmCircuitBillingAcctPvcControl2 OBJECT-TYPE
    SYNTAX INTEGER {
                disabled (1),
                enabled (2),
                study (3)
                }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "PVC accounting on logical port endpoint 2."
    ::= {atmCircuitBillingEntry 7}

atmCircuitBillingRowStatus OBJECT-TYPE
    SYNTAX RowStatus
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "Row status active(1) - Row is currently usable.
        notInService(2) - Row has been created and initialized but not
                          made active by client.
        notReady(3) - Row has been created but contains 'holes',
                      waiting for client to finish.
        createAndGo(4) - Not supported.
        createAndWait(5) - Create new row.
        destroy(6) - Delete an existing row."

        ::= { atmCircuitBillingEntry 8}

atmCircuitBillingModifyType OBJECT-TYPE
    SYNTAX INTEGER { normal(1), dbOnly(4), dbOnlySetOutOfSync(5) }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "By default, writes are stored to the database and the switch.
        Set this to dbOnly to send writes only to the database.
        dbOnlySetOutOfSync sends writes to the database and sets the
        Out of Sync flag in the database.
        This value is re-set to normal after every transaction."
        DEFVAL {normal}
        ::= {atmCircuitBillingEntry 9}
```

AtmCircuitNdcTable

```
-- AtmCircuitNdcTable

atmCircuitNdcTable OBJECT-TYPE
    SYNTAX SEQUENCE OF AtmCircuitNdcEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
           "contains the atm NDC attributes for the CBX500 ATM switch."
    ::= { circuitConfiguration 9 }

atmCircuitNdcEntry OBJECT-TYPE
    SYNTAX AtmCircuitNdcEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
           "attributes associated with atm NDC for an atm ckt"
    INDEX  {circuitIndex}
    ::= { atmCircuitNdcTable 1 }

AtmCircuitNdcEntry ::=
  SEQUENCE {
    atmCircuitNdcCircuitName
        DisplayString,
    atmCircuitNdcEnable1
        INTEGER,
    atmCircuitNdcTotalPVCsEnabledOnCard1
        Integer32,
    atmCircuitNdcLimitOfPVCsEnabledOnCard1
        Integer32,
    atmCircuitNdcClp0CellThresh1
        Integer32,
    atmCircuitNdcClp1CellThresh1
```

```
        Integer32,
    atmCircuitNdcEnable2
        INTEGER,
    atmCircuitNdcTotalPVCsEnabledOnCard2
        Integer32,
    atmCircuitNdcLimitOfPVCsEnabledOnCard2
        Integer32,
    atmCircuitNdcClp0CellThresh2
        Integer32,
    atmCircuitNdcClp1CellThresh2
        Integer32,
    atmCircuitNdcRowStatus
        RowStatus,
    atmCircuitNdcModifyType
        INTEGER
  }

atmCircuitNdcCircuitName OBJECT-TYPE
    SYNTAX DisplayString
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION "Name of the atm circuit."
    ::= {atmCircuitNdcEntry 1}

atmCircuitNdcEnable1 OBJECT-TYPE
    SYNTAX INTEGER {
                off (1),
                on (2)
                }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "NDC enable/disable on Logical port Endpoint 1"
    ::= {atmCircuitNdcEntry 2}

atmCircuitNdcTotalPVCsEnabledOnCard1 OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION "Total PVCs enabled on card, on logical port endpoint 1."
    ::= {atmCircuitNdcEntry 3}

atmCircuitNdcLimitOfPVCsEnabledOnCard1 OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION "Limit of PVCs Enabled per Card, on logical port endpoint
    1."
    ::= {atmCircuitNdcEntry 4}

atmCircuitNdcClp0CellThresh1 OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "Incoming discarded CLP=0 NDC threshold on logical port
    1."
    ::= {atmCircuitNdcEntry 5}

atmCircuitNdcClp1CellThresh1 OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "Incoming discarded CLP=0+1 NDC threshold on logical port
    1"
    ::= {atmCircuitNdcEntry 6}

atmCircuitNdcEnable2 OBJECT-TYPE
    SYNTAX INTEGER {
                off (1),
                on (2)
                }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "NDC enable/disable on Logical port Endpoint 2"
    ::= {atmCircuitNdcEntry 7}

atmCircuitNdcTotalPVCsEnabledOnCard2 OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION "Total PVCs enabled on card, on logical port endpoint 2"
    ::= {atmCircuitNdcEntry 8}

atmCircuitNdcLimitOfPVCsEnabledOnCard2 OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION "Limit of PVCs Enabled per Card, on logical port endpoint
    2"
    ::= {atmCircuitNdcEntry 9}

atmCircuitNdcClp0CellThresh2 OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "Incoming discarded CLP=0 NDC threshold on logical port
    2."
    ::= {atmCircuitNdcEntry 10}

atmCircuitNdcClp1CellThresh2 OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "Incoming discarded CLP=0+1 NDC threshold on logical port
    2."
    ::= {atmCircuitNdcEntry 11}

atmCircuitNdcRowStatus OBJECT-TYPE
    SYNTAX RowStatus
```

```
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "Row status active(1) - Row is currently usable.
         notInService(2) - Row has been created and initialized but not
                           made active by client.
         notReady(3) - Row has been created but contains holes,
                       waiting for client to finish.
         createAndGo(4) - Not supported.
         createAndWait(5) - Create new row.
         destroy(6) - Delete an existing row."
    ::= { atmCircuitNdcEntry 12}

atmCircuitNdcModifyType OBJECT-TYPE
    SYNTAX INTEGER { normal(1), dbOnly(4), dbOnlySetOutOfSync(5) }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "By default, writes are stored to the database and the switch.
        Set this to dbOnly to send writes only to the database.
        dbOnlySetOutOfSync sends
        writes to the database and sets the Out of Sync flag in the
        database.
        This value is re-set to normal after every transaction."
        DEFVAL {normal}
    ::= { atmCircuitNdcEntry 13}
```

Circuit Soft PVC Table

```
-- Circuit Soft PVC Table.

circuitSpvcTable OBJECT-TYPE
    SYNTAX SEQUENCE OF CircuitSpvcEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
    " A list of Soft PVC Point to Point circuit entries."
    ::= { circuitConfiguration 10 }

circuitSpvcEntry OBJECT-TYPE
    SYNTAX CircuitSpvcEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
    "A group of attributes associated with Soft PVC circuit"
    INDEX  {switchIdIndex,
            lportIfIndex,
            vpiIndex,
            vciIndex }
    ::= { circuitSpvcTable 1 }

CircuitSpvcEntry ::=
    SEQUENCE {
      circuitSpvcSlotId
        Integer32,
      circuitSpvcPportId
        Integer32,
      circuitSpvcLportId
        Integer32,
      circuitSpvcName
        DisplayString,
      circuitSpvcTerminatingEndpointAddress
        OCTET STRING,
      circuitSpvcAdminStatus
        INTEGER,
      circuitSpvcCircuitType
        INTEGER,
      circuitSpvcTargetSelectType
        INTEGER,
      circuitSpvcRetryInterval
        Integer32,
      circuitSpvcRetryLimit
        Integer32,
      circuitSpvcForwardTrafficDescriptor
        DisplayString,
      circuitSpvcReverseTrafficDescriptor
        DisplayString,
      circuitSpvcRowStatus
        RowStatus,
      circuitSpvcModifyType
        INTEGER
    }

circuitSpvcSlotId OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION "Slot Id."
    ::= { circuitSpvcEntry 1}

circuitSpvcPportId OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION "Pport Id."
    ::= { circuitSpvcEntry 2}

circuitSpvcLportId OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION "Lport Id."
    ::= { circuitSpvcEntry 3}

circuitSpvcName OBJECT-TYPE
    SYNTAX DisplayString
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION " Soft PVC Circuit Name. The attribute cannot be modified
```

```
        after creation."
    ::= { circuitSpvcEntry 4}

circuitSpvcTerminatingEndpointAddress OBJECT-TYPE
    SYNTAX OCTET STRING (SIZE(1..20))
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION " The complete Address of the SVC Endpoint"
    ::= { circuitSpvcEntry 6 }

circuitSpvcAdminStatus OBJECT-TYPE
    SYNTAX INTEGER {
           down (1),
           up (2)
    }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "Soft PVC Circuit Admin Status"
    ::= { circuitSpvcEntry 11 }

circuitSpvcCircuitType OBJECT-TYPE
    SYNTAX INTEGER { spvpc (1), spvcc(2) }
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION "The circuit type for Soft PVC circuits."
    DEFVAL {spvcc}
    ::= { circuitSpvcEntry 12 }

circuitSpvcTargetSelectType OBJECT-TYPE
    SYNTAX INTEGER { required(1), any(2) }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "Indicates whether the target VPI/VCI values
                are to be used at the destination.

                If the value 'any' is specified, the destination
                switch will choose the VPI/VCI values. Once the Circuit is
                established, the value of this object changes to
                'required', such that the same VPI/VCI values will
                continue to be used even if the connection is
                subsequently torn down and re-established.

                Required is not supported on Cascade Switches for now. "
    ::= { circuitSpvcEntry 13 }

circuitSpvcRetryInterval OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
          "Defines the period to wait before attempting
           to establish the Soft PVC after the first failed call
           attempt.  Zero represents an infinite interval indicating no
           retries."
    DEFVAL {0}
    ::= { circuitSpvcEntry 14 }

circuitSpvcRetryLimit OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
           "Sets a maximum limit on how many consecutive unsuccessful
            call setup attempts can be made before stopping the attempt
            to set up the connection. If this limit is reached then
            management action will be required to initiate a new attempt
            to establish the connection. A value of zero indicates
            no limit - the attempts will continue until successful."
    DEFVAL {0}
    ::= { circuitSpvcEntry 15 }

circuitSpvcForwardTrafficDescriptor OBJECT-TYPE
    SYNTAX DisplayString
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "The name of the Traffic Descriptor to be used for this
                 Soft PVC circuit. All valid names can be obtained from
                 the TrafficDescriptor table of provserv.mib"
    ::= { circuitSpvcEntry 16 }

circuitSpvcReverseTrafficDescriptor OBJECT-TYPE
    SYNTAX DisplayString
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "The name of the Traffic Descriptor to be used for this
                 Soft PVC circuit. All valid names can be obtained from
                 the TrafficDescriptor table of provserv.mib"
    ::= { circuitSpvcEntry 17 }

circuitSpvcRowStatus OBJECT-TYPE
    SYNTAX RowStatus
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "Row status active(1) - Row is currently usable.
         notInService(2) - Row has been created and initialized but not
                           made active by client.
         notReady(3) - Row has been created but contains holes.
                       waiting for client to finish.
         createAndGo(4) - Not supported.
         createAndWait(5) - Create new row.
         destroy(6) - Delete an existing row."
    ::= { circuitSpvcEntry 18 }

circuitSpvcModifyType OBJECT-TYPE
   SYNTAX INTEGER { normal(1), dbOnly(4), dbOnlySetOutOfSync(5) }
   MAX-ACCESS read-write
```

```
    STATUS current
    DESCRIPTION
         "By default, writes are stored to the database and the switch.
         Set this to dbOnly to send writes only to the database.
         dbOnlySetOutOfSync sends writes to the database and sets the
         Out of Sync flag in the database.
         This value is re-set to normal after every transaction."
         DEFVAL {normal}
    ::= { circuitSpvcEntry 19 }
```

Point to MultiPoint Soft PVC Root Table

```
-- Point to MultiPoint Soft PVC Root Table

circuitSpvcPmpRootTable OBJECT-TYPE
    SYNTAX SEQUENCE OF CircuitSpvcPmpRootEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
           " A list of Soft PVC Point to MultiPoint circuit Root entries."
    ::= { circuitConfiguration 11 }

circuitSpvcPmpRootEntry OBJECT-TYPE
    SYNTAX CircuitSpvcPmpRootEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
           "A group of attributes associated with Soft PVC circuit"
    INDEX  {switchIdIndex,
            lportIfIndex,
            vpiIndex,
            vciIndex }
    ::= { circuitSpvcPmpRootTable 1 }

CircuitSpvcPmpRootEntry ::=
    SEQUENCE {
      circuitSpvcPmpRootSlotId
        Integer32,
      circuitSpvcPmpRootPportId
        Integer32,
      circuitSpvcPmpRootLportId
        Integer32,
      circuitSpvcPmpRootName
        DisplayString,
      circuitSpvcPmpRootTerminatingEndpointAddress
        OCTET STRING,
      circuitSpvcPmpRootAdminStatus
        INTEGER,
      circuitSpvcPmpRootCircuitType
        INTEGER,
      circuitSpvcPmpRootTargetSelectType
        INTEGER,
      circuitSpvcPmpRootRetryInterval
        Integer32,
      circuitSpvcPmpRootRetryLimit
        Integer32,
      circuitSpvcPmpRootForwardTrafficDescriptor
        DisplayString,
      circuitSpvcPmpRootReverseTrafficDescriptor
        DisplayString,
      circuitSpvcPmpRootRowStatus
        RowStatus,
      circuitSpvcPmpRootModifyType
        INTEGER,
      circuitSpvcPmpRootNextAvailableLeafNo
        Integer32
    }

circuitSpvcPmpRootSlotId OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION "Slot Id."
    ::= { circuitSpvcPmpRootEntry 1}

circuitSpvcPmpRootPportId OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION "Pport Id."
    ::= { circuitSpvcPmpRootEntry 2}

circuitSpvcPmpRootLportId OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION "Lport Id."
    ::= { circuitSpvcPmpRootEntry 3}

circuitSpvcPmpRootName OBJECT-TYPE
    SYNTAX DisplayString
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION " Soft PVC Circuit Name. The attribute cannot be
        modified after creation."
    ::= { circuitSpvcPmpRootEntry 4}

circuitSpvcPmpRootTerminatingEndpointAddress OBJECT-TYPE
    SYNTAX OCTET STRING (SIZE(1..20))
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION " The complete Address of the SVC Endpoint"
    ::= { circuitSpvcPmpRootEntry 5 }

circuitSpvcPmpRootAdminStatus OBJECT-TYPE
    SYNTAX INTEGER {
           down (1),
           up (2)
    }
```

```
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "Soft PVC Circuit Admin Status"
    ::= { circuitSpvcPmpRootEntry 10 }

circuitSpvcPmpRootCircuitType OBJECT-TYPE
    SYNTAX INTEGER { spvpc (1), spvcc(2) }
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION "The circuit type for Soft PVC circuits."
    DEFVAL { spvcc }
    ::= { circuitSpvcPmpRootEntry 11 }

circuitSpvcPmpRootTargetSelectType OBJECT-TYPE
    SYNTAX INTEGER { required(1), any(2) }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "Indicates whether the target VPI/VCI values
                are to be used at the destination.

                If the value 'any' is specified, the destination
                switch will choose the VPI/VCI values. Once the Circuit is
                established, the value of this object changes to
                'required', such that the same VPI/VCI values will
                continue to be used even if the connection is
                subsequently torn down and re-established.

                Required is not supported on Cascade Switches for now. "

    ::= { circuitSpvcPmpRootEntry 12 }

circuitSpvcPmpRootRetryInterval OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "Defines the period to wait before attempting
                to establish the Soft PVC after the first failed call
                attempt.  Zero represents an infinite interval indicating
                no retries."
    DEFVAL {0}
    ::= { circuitSpvcPmpRootEntry 13 }

circuitSpvcPmpRootRetryLimit OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "Sets a maximum limit on how many consecutive unsuccessful
                call setup attempts can be made before stopping the
                attempt to set up the connection. If this limit is
                reached then management action will be required to
                initiate a new attempt to establish the connection. A
                value of zero indicates no limit - the attempts will
                continue until successful."
    DEFVAL {0}
    ::= { circuitSpvcPmpRootEntry 14 }

circuitSpvcPmpRootForwardTrafficDescriptor OBJECT-TYPE
    SYNTAX DisplayString
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "The name of the Traffic Descriptor to be used for this
                Soft PVC circuit. All valid names can be obtained from
                the TrafficDescriptor table of provserv.mib"
    ::= { circuitSpvcPmpRootEntry 15 }

circuitSpvcPmpRootReverseTrafficDescriptor OBJECT-TYPE
    SYNTAX DisplayString
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION "The name of the Traffic Descriptor to be used for this
                Soft PVC circuit. All valid names can be obtained from
                the TrafficDescriptor table of provserv.mib"
    ::= { circuitSpvcPmpRootEntry 16 }

circuitSpvcPmpRootRowStatus OBJECT-TYPE
    SYNTAX RowStatus
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "Row status active(1) - Row is currently usable.
         notInService(2) - Row has been created and initialized but not
                           made active by client.
         notReady(3) - Row has been created but contains holes.
                       waiting for client to finish.
         createAndGo(4) - Not supported.
         createAndWait(5) - Create new row.
         destroy(6) - Delete an existing row."
    ::= { circuitSpvcPmpRootEntry 17 }

circuitSpvcPmpRootModifyType OBJECT-TYPE
   SYNTAX INTEGER { normal(1), dbOnly(4), dbOnlySetOutOfSync(5) }
   MAX-ACCESS read-write
   STATUS current
   DESCRIPTION
        "By default, writes are stored to the database and the switch.
        Set this to dbOnly to send writes only to the database.
        dbOnlySetOutOfSync sends writes to the database and sets the
        Out of Sync flag in the database.
        This value is re-set to normal after every transaction."
        DEFVAL {normal}
    ::= { circuitSpvcPmpRootEntry 18 }

circuitSpvcPmpRootNextAvailableLeafNo OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
         " When queried upon this attribute, the server returns a next
```

```
            available leaf number for the root"
    ::= { circuitSpvcPmpRootEntry 19}
```

Point to MultiPoint Soft PVC Leaf Table

```
-- Point to MultiPoint Soft PVC Leaf Table

circuitSpvcPmpLeafTable OBJECT-TYPE
    SYNTAX SEQUENCE OF CircuitSpvcPmpLeafEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
           " A list of Soft PVC Point to MultiPoint circuit Leaf entries."
    ::= { circuitConfiguration 12 }

circuitSpvcPmpLeafEntry OBJECT-TYPE
    SYNTAX CircuitSpvcPmpLeafEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
           "A group of attributes associated with Soft PVC circuit"
    INDEX  {circuitSpvcPmpLeafIndex,
            switchIdIndex,
            lportIfIndex,
            vpiIndex,
            vciIndex }
    ::= { circuitSpvcPmpLeafTable 1 }

CircuitSpvcPmpLeafEntry ::=
    SEQUENCE {
      circuitSpvcPmpLeafSlotId
        Integer32,
      circuitSpvcPmpLeafPportId
        Integer32,
      circuitSpvcPmpLeafLportId
        Integer32,
      circuitSpvcPmpLeafTerminatingEndpointAddress
        OCTET STRING,
      circuitSpvcPmpLeafAdminStatus
        INTEGER,
      circuitSpvcPmpLeafTargetSelectType
        INTEGER,
      circuitSpvcPmpLeafRetryInterval
        Integer32,
      circuitSpvcPmpLeafRetryLimit
        Integer32,
      circuitSpvcPmpLeafRowStatus
        RowStatus,
      circuitSpvcPmpLeafModifyType
        INTEGER,
      circuitSpvcPmpLeafIndex
        Integer32
    }

circuitSpvcPmpLeafSlotId OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION "Slot Id."
    ::= { circuitSpvcPmpLeafEntry 1}

circuitSpvcPmpLeafPportId OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION "Pport Id."
    ::= { circuitSpvcPmpLeafEntry 2}

circuitSpvcPmpLeafLportId OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION "Lport Id."
    ::= { circuitSpvcPmpLeafEntry 3}

circuitSpvcPmpLeafTerminatingEndpointAddress OBJECT-TYPE
    SYNTAX OCTET STRING (SIZE(1..20))
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION " The complete Address of the SVC Endpoint"
    ::= { circuitSpvcPmpLeafEntry 4 }

circuitSpvcPmpLeafAdminStatus OBJECT-TYPE
    SYNTAX INTEGER {
           down(1),
           up (2)
    }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "Soft PVC Circuit Admin Status"
    ::= { circuitSpvcPmpLeafEntry 5 }

circuitSpvcPmpLeafTargetSelectType OBJECT-TYPE
    SYNTAX INTEGER {required(1), any (2) }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "Indicates whether the target VPI/VCI values
                are to be used at the destination.

                If the value 'any' is specified, the destination
                switch will choose the VPI/VCI values. Once the Circuit is
                established, the value of this object changes to
                'required', such that the same VPI/VCI values will
                continue to be used even if the connection is
                subsequently torn down and re-established.

                Required is not supported on Cascade Switches for now. "

    ::= { circuitSpvcPmpLeafEntry 6 }
```

```
circuitSpvcPmpLeafRetryInterval OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "Defines the period to wait before attempting
                to establish the Soft PVC after the first failed call
                attempt.  Zero represents an infinite interval indicating
                no retries."

    DEFVAL {0}
    ::= { circuitSpvcPmpLeafEntry 7 }

circuitSpvcPmpLeafRetryLimit OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "Sets a maximum limit on how many consecutive unsuccessful
                call setup attempts can be made before stopping the
                attempt to set up the connection. If this limit is
                reached then management action will be required to
                initiate a new attempt to establish the connection. A
                value of zero indicates no limit - the attempts will
                continue until successful."
    DEFVAL {0}
    ::= { circuitSpvcPmpLeafEntry 8 }

circuitSpvcPmpLeafRowStatus OBJECT-TYPE
    SYNTAX RowStatus
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "Row status active(1) - Row is currently usable.
         notInService(2) - Row has been created and initialized but not
                           made active by client.
         notReady(3) - Row has been created but contains holes.
                       waiting for client to finish.
         createAndGo(4) - Not supported.
         createAndWait(5) - Create new row.
         destroy(6) - Delete an existing row."
    ::= { circuitSpvcPmpLeafEntry 9 }

circuitSpvcPmpLeafModifyType OBJECT-TYPE
   SYNTAX INTEGER { normal(1), dbOnly(4), dbOnlySetOutOfSync(5) }
   MAX-ACCESS read-write
   STATUS current
   DESCRIPTION
        "By default, writes are stored to the database and the switch.
        Set this to dbOnly to send writes only to the database.
        dbOnlySetOutOfSync sends writes to the database and sets the
        Out of Sync flag in the database.
        This value is re-set to normal after every transaction."
        DEFVAL {normal}
   ::= { circuitSpvcPmpLeafEntry 10 }

circuitSpvcPmpLeafIndex OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION "Leaf number ID (index)"
    ::= { circuitSpvcPmpLeafEntry 11 }
```

ServiceName Endpoint Tables and InterworkingCircuitServiceName Endpoint Tables

```
-- ServiceName Endpoint Tables.
-- interworkingCircuitServiceNameEndpointTable

interworkingCircuitServiceNameEndpointTable OBJECT-TYPE
    SYNTAX SEQUENCE OF InterworkingCircuitServiceNameEndpointEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
           "A list of ATM circuit entries."
    ::= { circuitConfiguration 13 }

interworkingCircuitServiceNameEndpointEntry OBJECT-TYPE
    SYNTAX InterworkingCircuitServiceNameEndpointEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "A group of attributes associated with an endpoint of an ATM
         circuit."
    INDEX  {networkIdIndex,
            networkServiceNameIndex,
            vpiIndex,
            vciIndex}

    ::= { interworkingCircuitServiceNameEndpointTable 1 }

InterworkingCircuitServiceNameEndpointEntry ::=
  SEQUENCE {
    interworkingCircuitServiceNameEndpointCircuitNumber
      Integer32,
    interworkingCircuitServiceNameEndpointTrafficDescrParam1
      Integer32,
    interworkingCircuitServiceNameEndpointTrafficDescrParam2
      Integer32,
    interworkingCircuitServiceNameEndpointTrafficDescrParam3
      Integer32,
    interworkingCircuitServiceNameEndpointTrafficDescrParam4
      Integer32,
    interworkingCircuitServiceNameEndpointTrafficDescrParam5
      Integer32,
    interworkingCircuitServiceNameEndpointTrafficDescrType
      INTEGER,
    interworkingCircuitServiceNameEndpointScr
      Integer32,
```

```
    interworkingCircuitServiceNameEndpointMbs
      Integer32,
    interworkingCircuitServiceNameEndpointPcr
      Integer32,
    interworkingCircuitServiceNameEndpointQosClass
      INTEGER,
    interworkingCircuitServiceNameEndpointFcpDiscard
      INTEGER,
    interworkingCircuitServiceNameEndpointGracefulDiscard
      INTEGER,
    interworkingCircuitServiceNameEndpointRedFramePercent
      Integer32,
    interworkingCircuitServiceNameEndpointShaperId
      Integer32,
    interworkingCircuitServiceNameEndpointRateEnfScheme
      INTEGER,
    interworkingCircuitServiceNameEndpointCircuitPriority
      INTEGER,
    interworkingCircuitServiceNameEndpointRowStatus
      RowStatus,
    interworkingCircuitServiceNameEndpointModifyType
      INTEGER,
    interworkingCircuitServiceNameEndpointDeltaBc
      Integer32,
    interworkingCircuitServiceNameEndpointDeltaBe
      Integer32,
    interworkingCircuitServiceNameEndpointZeroCIREnabled
      INTEGER,
    interworkingCircuitServiceNameEndpointSlotId
      Integer32,
    interworkingCircuitServiceNameEndpointPPortId
      Integer32
  }

interworkingCircuitServiceNameEndpointCircuitNumber OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION "The number of the circuit which this endpoint terminates.
                 This is used as the index into the
                 circuitCrossConnectTable."
    ::= { interworkingCircuitServiceNameEndpointEntry 1}

interworkingCircuitServiceNameEndpointTrafficDescrParam1 OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "The Traffic Descriptor Parameter 1"
    ::= { interworkingCircuitServiceNameEndpointEntry 2}

interworkingCircuitServiceNameEndpointTrafficDescrParam2 OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "The Traffic Descriptor Parameter 2"
    ::= { interworkingCircuitServiceNameEndpointEntry 3}

interworkingCircuitServiceNameEndpointTrafficDescrParam3 OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "The Traffic Descriptor Parameter 3"
    ::= { interworkingCircuitServiceNameEndpointEntry 4}

interworkingCircuitServiceNameEndpointTrafficDescrParam4 OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "The Traffic Descriptor Parameter 4"
    ::= { interworkingCircuitServiceNameEndpointEntry 5}

interworkingCircuitServiceNameEndpointTrafficDescrParam5 OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "The Traffic Descriptor Parameter 5"
    ::= { interworkingCircuitServiceNameEndpointEntry 6}

interworkingCircuitServiceNameEndpointTrafficDescrType OBJECT-TYPE
    SYNTAX INTEGER {
    pcrClp0PcrClp01(1),
    pcrClp0PcrClp01Tagging(2),
    pcrClp01ScrClp0MbsClp0(3),
    pcrClp01ScrClp0MbsClp0Tagging(4),
    pcrClp01(5),
    pcrClp01ScrClp01MbsClp01(6),
    pcrClp01BestEffort(7),
    pcrClp0McrClp0(8)
    }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "AtmCircuit Traffic Descriptor Type."
    ::= { interworkingCircuitServiceNameEndpointEntry 7}

interworkingCircuitServiceNameEndpointScr OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "Sustainable Cell Rate, in bits."
    ::= { interworkingCircuitServiceNameEndpointEntry 8}

interworkingCircuitServiceNameEndpointMbs OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "The Maximum Burst Size, in bits."
    ::= { interworkingCircuitServiceNameEndpointEntry 9}
```

```
interworkingCircuitServiceNameEndpointPcr OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "The Peak Cell Rate, in bits."
    ::= { interworkingCircuitServiceNameEndpointEntry 10}

interworkingCircuitServiceNameEndpointQosClass OBJECT-TYPE
    SYNTAX INTEGER {
        cbr (1),
        vbrRealTime (2),
        vbrNonRealTime (3),
        ubr (4),
        abr (5),
        unspCbr (6),
        unspVbrNonRealTime (7),
        unspBestEffort (8)
        }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "AtmCircuit Quality of Service."
    ::= { interworkingCircuitServiceNameEndpointEntry 11}

interworkingCircuitServiceNameEndpointFcpDiscard OBJECT-TYPE
    SYNTAX INTEGER { epd(1), clp1 (2) }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION ""
    DEFVAL {epd}
    ::= { interworkingCircuitServiceNameEndpointEntry 12}

interworkingCircuitServiceNameEndpointGracefulDiscard OBJECT-TYPE
    SYNTAX INTEGER {
     off(1),
     on(2)
    }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "This variable states whether graceful discard is enabled
                for the circuit."
    ::= { interworkingCircuitServiceNameEndpointEntry 13}

interworkingCircuitServiceNameEndpointRedFramePercent OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "The percentage of RED frame bits that are allowed to enter the
         network, during the measurement interval, under non-congestion
         condition. Its value range is 0 - 100 and default value is 100.
         Its calculation is as follows:

         cktRedFrPcn = (allowed RED frame bits)/(Bc+Be+allowed RED frame
         bits)"
    ::= { interworkingCircuitServiceNameEndpointEntry 14}

interworkingCircuitServiceNameEndpointShaperId OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "."
    ::= { interworkingCircuitServiceNameEndpointEntry 15}


interworkingCircuitServiceNameEndpointRateEnfScheme OBJECT-TYPE
    SYNTAX INTEGER {
     jump(1),
     simple(2)
    }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "This variable states the maximum segment size for the
    network."
    ::= { interworkingCircuitServiceNameEndpointEntry 16}

interworkingCircuitServiceNameEndpointCircuitPriority OBJECT-TYPE
    SYNTAX INTEGER (0..4)
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "."
    ::= {interworkingCircuitServiceNameEndpointEntry 17}

interworkingCircuitServiceNameEndpointRowStatus OBJECT-TYPE
    SYNTAX RowStatus
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
      "Row status active(1) - Row is currently usable.
       notInService(2) - Row has been created and initialized but not
                         made active by client.
       notReady(3)     - Row has been created but containsholes, waiting
                         for client to finish.
       createAndGo(4)  - Not supported.
       createAndWait(5) - Create new row.
       destroy(6) - Delete an existing row."
    ::= { interworkingCircuitServiceNameEndpointEntry 18 }

interworkingCircuitServiceNameEndpointModifyType OBJECT-TYPE
    SYNTAX INTEGER { normal(1), dbOnly(4), dbOnlySetOutOfSync(5) }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
    "By default, writes are stored to the database and the switch.
     Set this to dbOnly to send writes only to the database.
     dbOnlySetOutOfSync sends writes to the database and sets the Out of
     Sync flag in the database.  This value is re-set to normal after
     every transaction."
    DEFVAL {normal}
```

```
    ::= { interworkingCircuitServiceNameEndpointEntry 19 }

interworkingCircuitServiceNameEndpointDeltaBc OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
       "The maximum number of bits that the network agree to transfer
        over the circuit as committed bits during the measurement
        interval under the CONDITION that the circuit still has POSITIVE
        committed bit (Bc) credits before receiving a frame but will have
        NEGATIVE Bc credits after accepting the frame. The range of this
        variable is 0 to 65,528 bits. By default, if not configured when
        creating the entry, it is set to 65,528 bits."
    ::= { interworkingCircuitServiceNameEndpointEntry 20 }

interworkingCircuitServiceNameEndpointDeltaBe OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
       "The maximum number of bits that the network agree to transfer
        over the circuit as allowed excess bits during the measurement
        interval under the CONDITION that the circuit still has POSITIVE
        excess bit (Be) credits before receiving a frame but will have
        NEGATIVE Be credits after accepting the frame. The range of this
        variable is 0 to 65,528 bits. By default, if not configured when
        creating the entry, it is set to 65,528 bits."
    ::= { interworkingCircuitServiceNameEndpointEntry 21 }

interworkingCircuitServiceNameEndpointZeroCIREnabled OBJECT-TYPE
    SYNTAX INTEGER {
      off(1),
      on(2)
    }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "."
    ::= { interworkingCircuitServiceNameEndpointEntry 22}

interworkingCircuitServiceNameEndpointSlotId OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "Slot ID where the enpoint resides."
    ::= { interworkingCircuitServiceNameEndpointEntry 23}

interworkingCircuitServiceNameEndpointPPortId OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "PPort ID where the endpoint resides."
    ::= { interworkingCircuitServiceNameEndpointEntry 24}
```

C500 ATM Service Name Circuit Endpoint Table

```
--
-- C500 ATM Service Name Circuit Endpoint table - contains instances of
-- circuit endpoints having service names on C500 switches.
--

atmCircuitServiceNameEndpointTable OBJECT-TYPE
    SYNTAX SEQUENCE OF AtmCircuitServiceNameEndpointEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
           "A list of ATM circuit entries."
    ::= { circuitConfiguration 14 }

atmCircuitServiceNameEndpointEntry OBJECT-TYPE
    SYNTAX AtmCircuitServiceNameEndpointEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "A group of attributes associated with an endpoint of an ATM
         circuit."
    INDEX  {networkIdIndex,
            networkServiceNameIndex,
            vpiIndex,
            vciIndex}

    ::= { atmCircuitServiceNameEndpointTable 1 }

AtmCircuitServiceNameEndpointEntry ::=
  SEQUENCE {
    atmCircuitServiceNameEndpointCircuitNumber
      Integer32,
    atmCircuitServiceNameEndpointTrafficDescrParam1
      Integer32,
    atmCircuitServiceNameEndpointTrafficDescrParam2
      Integer32,
    atmCircuitServiceNameEndpointTrafficDescrParam3
      Integer32,
    atmCircuitServiceNameEndpointTrafficDescrParam4
      Integer32,
    atmCircuitServiceNameEndpointTrafficDescrParam5
      Integer32,
    atmCircuitServiceNameEndpointTrafficDescrType
      INTEGER,
    atmCircuitServiceNameEndpointQosClass
      INTEGER,
    atmCircuitServiceNameEndpointFcpDiscard
      INTEGER,
    atmCircuitServiceNameEndpointGracefulDiscard
      INTEGER,
    atmCircuitServiceNameEndpointCircuitPriority
      INTEGER,
    atmCircuitServiceNameEndpointRateEnfScheme
```

```
      INTEGER,
    atmCircuitServiceNameEndpointModifyType
      INTEGER,
    atmCircuitServiceNameEndpointRowStatus
      RowStatus,
    atmCircuitServiceNameEndpointDeltaBc
      Integer32,
    atmCircuitServiceNameEndpointDeltaBe
      Integer32,
    atmCircuitServiceNameEndpointRedFramePercent
      Integer32,
    atmCircuitServiceNameEndpointSlotId
      Integer32,
    atmCircuitServiceNameEndpointPPortId
      Integer32
}

atmCircuitServiceNameEndpointCircuitNumber OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION "The number of the circuit which this endpoint terminates.
                 This is used as the index into the
                 circuitCrossConnectTable."
    ::= { atmCircuitServiceNameEndpointEntry 1}

atmCircuitServiceNameEndpointTrafficDescrParam1 OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "The Traffic Descriptor parameter 1"
    ::= { atmCircuitServiceNameEndpointEntry 2}

atmCircuitServiceNameEndpointTrafficDescrParam2 OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "The Traffic Descriptor parameter 2"
    ::= { atmCircuitServiceNameEndpointEntry 3}

atmCircuitServiceNameEndpointTrafficDescrParam3 OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "The Traffic Descriptor parameter 3"
    ::= { atmCircuitServiceNameEndpointEntry 4}

atmCircuitServiceNameEndpointTrafficDescrParam4 OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "The Traffic Descriptor parameter 4"
    ::= { atmCircuitServiceNameEndpointEntry 5}

atmCircuitServiceNameEndpointTrafficDescrParam5 OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "The Traffic Descriptor parameter 5"
    ::= { atmCircuitServiceNameEndpointEntry 6}

atmCircuitServiceNameEndpointTrafficDescrType OBJECT-TYPE
    SYNTAX INTEGER {
    pcrClp0PcrClp01(1),
    pcrClp0PcrClp01Tagging(2),
    pcrClp01ScrClp0MbsClp0(3),
    pcrClp01ScrClp0MbsClp0Tagging(4),
    pcrClp01(5),
    pcrClp01ScrClp01MbsClp01(6),
    pcrClp01BestEffort(7),
    pcrClp0McrClp0(8),
    bestEffort(9)
    }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "AtmCircuit Traffic Descriptor Type."
    ::= { atmCircuitServiceNameEndpointEntry 7}

atmCircuitServiceNameEndpointQosClass OBJECT-TYPE
    SYNTAX INTEGER {
       cbr (1),
       vbrRealTime (2),
       vbrNonRealTime (3),
       ubr (4),
       abr (5),
       unspCbr (6),
       unspVbrNonRealTime (7),
       unspBestEffort (8)
    }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "AtmCircuit Quality of Service."
    ::= { atmCircuitServiceNameEndpointEntry 8}

atmCircuitServiceNameEndpointFcpDiscard OBJECT-TYPE
    SYNTAX INTEGER { epd (1), clp1 (2) }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION ""
    DEFVAL {epd}
    ::= { atmCircuitServiceNameEndpointEntry 9}

atmCircuitServiceNameEndpointGracefulDiscard OBJECT-TYPE
    SYNTAX INTEGER {
      off(1),
      on(2)
    }
    MAX-ACCESS read-write
```

```
    STATUS current
    DESCRIPTION "This variable states whether graceful discard is enabled
                 for the circuit."
    ::= { atmCircuitServiceNameEndpointEntry 10}

atmCircuitServiceNameEndpointCircuitPriority OBJECT-TYPE
    SYNTAX INTEGER (0..4)
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION ""
    ::= { atmCircuitServiceNameEndpointEntry 11}

atmCircuitServiceNameEndpointRateEnfScheme OBJECT-TYPE
    SYNTAX INTEGER {
     jump(1),
     simple(2)
    }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "This variable states the maximum segment size for the
    network."
    ::= { atmCircuitServiceNameEndpointEntry 12}

atmCircuitServiceNameEndpointModifyType OBJECT-TYPE
    SYNTAX INTEGER { normal(1), dbOnly(4), dbOnlySetOutOfSync(5) }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
    "By default, writes are stored to the database and the switch.
     Set this to dbOnly to send writes only to the database.
     dbOnlySetOutOfSync sends writes to the database and sets the Out of
     Sync flag in the database.  This value is re-set to normal after
     every transaction."
    DEFVAL {normal}
    ::= { atmCircuitServiceNameEndpointEntry 13 }

atmCircuitServiceNameEndpointRowStatus OBJECT-TYPE
    SYNTAX  RowStatus
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
    "Row status active(1) - Row is currently usable.
     notInService(2) - Row has been created and initialized but not made
     active by client.
     notReady(3) - Row has been created but contains holes, waiting for
     client to finish.
     createAndGo(4) - Not supported.
     createAndWait(5) - Create new row.
     destroy(6) - Delete an existing row."
     ::= { atmCircuitServiceNameEndpointEntry 14 }

atmCircuitServiceNameEndpointDeltaBc OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
    "The maximum number of bits that the network agree to transfer
     over the circuit as committed bits during the measurement
     interval under the CONDITION that the circuit still has POSITIVE
     committed bit (Bc) credits before receiving a frame but will have
     NEGATIVE Bc credits after accepting the frame. The range of this
     variable is 0 to 65,528 bits. By default, if not configured when
     creating the entry, it is set to 65,528 bits."
    ::= { atmCircuitServiceNameEndpointEntry 15 }

atmCircuitServiceNameEndpointDeltaBe OBJECT-TYPE
    SYNTAX  Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
    "The maximum number of bits that the network agree to transfer
     over the circuit as allowed excess bits during the measurement
     interval under the CONDITION that the circuit still has POSITIVE
     excess bit (Be) credits before receiving a frame but will have
     NEGATIVE Be credits after accepting the frame. The range of this
     variable is 0 to 65,528 bits. By default, if not configured when
     creating the entry, it is set to 65,528 bits."
    ::= { atmCircuitServiceNameEndpointEntry 16 }

atmCircuitServiceNameEndpointRedFramePercent OBJECT-TYPE
    SYNTAX  Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
    "The percentage of RED frame bits that are allowed to enter the
     network, during the measurement interval, under non-congestion
     condition. Its value range is 0 - 100 and default value is 100.
     Its calculation is as follows:

     cktRedFrPcn = (allowed RED frame bits)/(Bc+Be+allowed RED frame
     bits)"
    ::= { atmCircuitServiceNameEndpointEntry 17 }

atmCircuitServiceNameEndpointSlotId OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "Slot ID where the enpoint resides."
    ::= { atmCircuitServiceNameEndpointEntry 18}

atmCircuitServiceNameEndpointPPortId OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "PPort ID where the endpoint resides."
    ::= { atmCircuitServiceNameEndpointEntry 19}
```

Frame Relay Service Name Circuit Table

```
--
-- Frame Relay Service Name Circuit table - contains instances of Frame
Relay
-- Service Name circuit endpoints
--

frCircuitServiceNameEndpointTable OBJECT-TYPE
    SYNTAX SEQUENCE OF FrCircuitServiceNameEndpointEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
           "A list of Frame Relay circuit entries."
    ::= { circuitConfiguration 15 }

frCircuitServiceNameEndpointEntry OBJECT-TYPE
    SYNTAX FrCircuitServiceNameEndpointEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
    "A group of attributes associated with a Frame Relay circuit
     endpoint."
    INDEX  {networkIdIndex,
            networkServiceNameIndex,
            dlciIdIndex}

    ::= { frCircuitServiceNameEndpointTable 1 }

FrCircuitServiceNameEndpointEntry ::=
  SEQUENCE {
    frCircuitServiceNameEndpointCircuitNumber
      Integer32,
    frCircuitServiceNameEndpointCir
      Integer32,
    frCircuitServiceNameEndpointBc
      Integer32,
    frCircuitServiceNameEndpointDeltaBc
      Integer32,
    frCircuitServiceNameEndpointBe
      Integer32,
    frCircuitServiceNameEndpointDeltaBe
      Integer32,
    frCircuitServiceNameEndpointGracefulDiscard
      INTEGER,
    frCircuitServiceNameEndpointRateEnfScheme
      INTEGER,
    frCircuitServiceNameEndpointRedFramePercent
      Integer32,
    frCircuitServiceNameEndpointZeroCIREnabled
      INTEGER,
    frCircuitServiceNameEndpointCircuitPriority
      INTEGER,
    frCircuitServiceNameEndpointQosClass
      INTEGER,
    frCircuitServiceNameEndpointRowStatus
      RowStatus,
    frCircuitServiceNameEndpointModifyType
      INTEGER,
    frCircuitServiceNameEndpointSlotId
      Integer32,
    frCircuitServiceNameEndpointPPortId
      Integer32
}

frCircuitServiceNameEndpointCircuitNumber OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
    "The number of the circuit which this endpoint terminates.
     This is used as the index into the circuitCrossConnectTable."
    ::= { frCircuitServiceNameEndpointEntry 1}

frCircuitServiceNameEndpointCir OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "Committed Information Rate "
    ::= { frCircuitServiceNameEndpointEntry 2}

frCircuitServiceNameEndpointBc OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "Committeed Burst Size, in bits"
    ::= { frCircuitServiceNameEndpointEntry 3}

frCircuitServiceNameEndpointDeltaBc OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
           "The maximum number of bits that the network agree to transfer
            over the circuit as committed bits during the measurement
            interval under the CONDITION that the circuit still has
            POSITIVE committed bit (Bc) credits before receiving a frame
            but will have NEGATIVE Bc credits after accepting the frame.
            The range of this variable is 0 to 65,528 bits. By default,
            if not configured when creating the entry, it is set to
            65,528 bits."
    ::= { frCircuitServiceNameEndpointEntry 4}

frCircuitServiceNameEndpointBe OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "Excess Burst size, in bits."
```

```
    ::= { frCircuitServiceNameEndpointEntry 5}

frCircuitServiceNameEndpointDeltaBe OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
           "The maximum number of bits that the network agree to transfer
            over the circuit as allowed excess bits during the measurement
            interval under the CONDITION that the circuit still has
            POSITIVE excess bit (Be) credits before receiving a frame but
            will have NEGATIVE Be credits after accepting the frame. The
            range of this variable is 0 to 65,528 bits. By default, if
            not configured when creating the entry, it is set to 65,528
            bits."
    ::= { frCircuitServiceNameEndpointEntry 6}

frCircuitServiceNameEndpointGracefulDiscard OBJECT-TYPE
    SYNTAX INTEGER {
      off(1),
      on(2)
    }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "This variable states whether graceful discard is enabled
                 for the circuit endpoint."
    ::= { frCircuitServiceNameEndpointEntry 7}

frCircuitServiceNameEndpointCircuitPriority OBJECT-TYPE
    SYNTAX INTEGER (0..4)
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "."
    ::= {frCircuitServiceNameEndpointEntry 8}

frCircuitServiceNameEndpointRateEnfScheme OBJECT-TYPE
    SYNTAX INTEGER {
     jump(1),
     simple(2)
    }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "This variable states the maximum segment size for the
    network."
    ::= { frCircuitServiceNameEndpointEntry 9}

frCircuitServiceNameEndpointRedFramePercent OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "The percentage of RED frame bits that are allowed to enter the
         network, during the measurement interval, under non-congestion
         condition. Its value range is 0 - 100 and default value is 100.
         Its calculation is as follows:

         cktRedFrPcn = (allowed RED frame bits)/(Bc+Be+allowed RED frame
         bits)"
    ::= { frCircuitServiceNameEndpointEntry 10}

frCircuitServiceNameEndpointZeroCIREnabled OBJECT-TYPE
    SYNTAX INTEGER {
       off(1),
       on(2)
    }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "."
    ::= { frCircuitServiceNameEndpointEntry 11}

frCircuitServiceNameEndpointQosClass OBJECT-TYPE
    SYNTAX INTEGER {
       cbr (1),
       vbrRealTime (2),
       vbrNonRealTime (3),
       ubr (4),
       abr (5),
       unspCbr (6),
       unspVbrNonRealTime (7),
       unspBestEffort (8)
    }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "AtmCircuit Quality of Service."
    ::= { frCircuitServiceNameEndpointEntry 12}

frCircuitServiceNameEndpointModifyType OBJECT-TYPE
    SYNTAX INTEGER { normal(1), dbOnly(4), dbOnlySetOutOfSync(5) }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
    "By default, writes are stored to the database and the switch.
     Set this to dbOnly to send writes only to the database.
     dbOnlySetOutOfSync sends writes to the database and sets the
     Out of Sync flag in the database.
     This value is re-set to normal after every transaction."
    DEFVAL {normal}
    ::= { frCircuitServiceNameEndpointEntry 13 }

frCircuitServiceNameEndpointRowStatus OBJECT-TYPE
    SYNTAX RowStatus
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
    "Row status active(1) - Row is mandatory usable.
     notInService(2) - Row has been created and initialized but not made
     active by client.
     notReady(3) - Row has been created but contains holes, waiting for
```

```
     client to finish.
     createAndGo(4) - Not supported.
     createAndWait(5) - Create new row.
     destroy(6) - Delete an existing row."

    ::= { frCircuitServiceNameEndpointEntry 14 }

frCircuitServiceNameEndpointSlotId OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "Slot ID where the enpoint resides."
    ::= { frCircuitServiceNameEndpointEntry 15}

frCircuitServiceNameEndpointPPortId OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION "PPort ID where the endpoint resides."
    ::= {frCircuitServiceNameEndpointEntry 16}
```

DS1 PM Threshold Table

```
-- The DS1 PM Threshold Table

-- This table contains Current (15 min) and Day threshold values used
-- in performance parameter thresholding defined by ANSI T1.231

ds1pmThresholdTable OBJECT-TYPE
        SYNTAX  SEQUENCE OF Ds1pmThresholdEntry
        MAX-ACCESS  not-accessible
        STATUS current
        DESCRIPTION
                "The DS1 PM Threshold table."
        ::= { pport 6 }

ds1pmThresholdEntry OBJECT-TYPE
        SYNTAX  Ds1pmThresholdEntry
        MAX-ACCESS  not-accessible
        STATUS current
        DESCRIPTION
                "An entry in the DS1 PM Threshold table."
        INDEX   { switchIdIndex, slotIdIndex, pportIdIndex }
        ::= { ds1pmThresholdTable 1 }

Ds1pmThresholdEntry ::=
        SEQUENCE {
        ds1pmThreshCrossingEnable
            INTEGER,
        ds1pmThreshESLCurrent
            Integer32,
        ds1pmThreshESLDay
            Integer32,
        ds1pmThreshCVPCurrent
            Integer32,
        ds1pmThreshCVPDay
            Integer32,
        ds1pmThreshESPCurrent
            Integer32,
        ds1pmThreshESPDay
            Integer32,
        ds1pmThreshSESPCurrent
            Integer32,
        ds1pmThreshSESPDay
            Integer32,
        ds1pmThreshSASPCurrent
            Integer32,
        ds1pmThreshSASPDay
            Integer32,
        ds1pmThreshCSSPCurrent
            Integer32,
        ds1pmThreshCSSPDay
            Integer32,
         ds1pmThreshUASPCurrent
            Integer32,
        ds1pmThreshUASPDay
            Integer32,
        ds1pmThreshRowStatus
            RowStatus,
        ds1pmThreshModifyType
            INTEGER
        }

ds1pmThreshCrossingEnable OBJECT-TYPE
        SYNTAX  INTEGER {
                disabled (1),
                enabled (2)
               }
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
                "Enable or disabled the detection and emission of
                 threshold crossing alarms."
        ::= { ds1pmThresholdEntry 1 }

ds1pmThreshESLCurrent OBJECT-TYPE
        SYNTAX Integer32 (1..900)
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
                "Line errored seconds 15 Minute (current) threshold."
        ::= { ds1pmThresholdEntry 2 }

ds1pmThreshESLDay OBJECT-TYPE
        SYNTAX Integer32 (1..65535)
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
                "Line errored seconds 24 Hour (day) threshold."
```

```
        ::= { ds1pmThresholdEntry 3 }

ds1pmThreshCVPCurrent OBJECT-TYPE
        SYNTAX Integer32 (1..16383)
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
                "Path code violations 15 Minute (current) threshold."
        ::= { ds1pmThresholdEntry 4 }

ds1pmThreshCVPDay OBJECT-TYPE
        SYNTAX Integer32 (1..1048575)
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
                "Path code violations 24 Hour (day) threshold."
        ::= { ds1pmThresholdEntry 5 }

ds1pmThreshESPCurrent OBJECT-TYPE
        SYNTAX Integer32 (1..900)
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
                "Path errored seconds 15 Minute (current) threshold."
        ::= { ds1pmThresholdEntry 6 }

ds1pmThreshESPDay OBJECT-TYPE
        SYNTAX Integer32 (1..65535)
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
                "Path errored seconds 24 Hour (day) threshold."
        ::= { ds1pmThresholdEntry 7 }

ds1pmThreshSESPCurrent OBJECT-TYPE
        SYNTAX Integer32 (1..63)
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
                "Path severely errored seconds 15 Minute (current)
                 threshold."
        ::= { ds1pmThresholdEntry 8 }

ds1pmThreshSESPDay OBJECT-TYPE
        SYNTAX Integer32 (1..4095)
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
                "Path severely errored seconds 24 Hour (day) threshold."
        ::= { ds1pmThresholdEntry 9 }

ds1pmThreshSASPCurrent OBJECT-TYPE
        SYNTAX Integer32 (1..63)
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
                "Path SEF/AIS seconds 15 Minute (current) threshold."
        ::= { ds1pmThresholdEntry 10 }

ds1pmThreshSASPDay OBJECT-TYPE
        SYNTAX Integer32 (1..4095)
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
                "Path SEF/AIS seconds 24 Hour (day) threshold."
        ::= { ds1pmThresholdEntry 11 }

ds1pmThreshCSSPCurrent OBJECT-TYPE
        SYNTAX Integer32 (1..63)
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
                "Path controlled slip seconds 15 Minute (current)
                threshold."
        ::= { ds1pmThresholdEntry 12 }

ds1pmThreshCSSPDay OBJECT-TYPE
        SYNTAX Integer32 (1..4095)
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
                "Path controlled slip seconds 24 Hour (day) threshold."
        ::= { ds1pmThresholdEntry 13 }

ds1pmThreshUASPCurrent OBJECT-TYPE
        SYNTAX Integer32 (1..63)
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
                "Path unavailable seconds 15 Minute (current) threshold."
        ::= { ds1pmThresholdEntry 14 }

ds1pmThreshUASPDay OBJECT-TYPE
        SYNTAX Integer32 (1..4095)
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
                "Path unavailable seconds 24 Hour (day) threshold."
        ::= { ds1pmThresholdEntry 15 }

ds1pmThreshRowStatus OBJECT-TYPE
        SYNTAX  RowStatus
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
                "."
        ::= { ds1pmThresholdEntry 16 }
```

```
ds1pmThreshModifyType OBJECT-TYPE
        SYNTAX  INTEGER { normal(1), dbOnly(4), dbOnlySetOutOfSync(5) }
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
        "By default, writes are stored to the database and the switch.
        Set this to dbOnly to send writes only to the database.
        dbOnlySetOutOfSync sends writes to the database and sets the Out
        of Sync flag in the database.
        This value is re-set to normal after every transaction."
        DEFVAL {normal}
    ::= { ds1pmThresholdEntry 17 }
```

DS3 PM Threshold Table

```
-- The DS3 PM Threshold Table

-- This table contains Current (15 min) and Day threshold values used
-- in DS3 performance.

ds3pmThresholdTable OBJECT-TYPE
        SYNTAX  SEQUENCE OF Ds3pmThresholdEntry
        MAX-ACCESS  not-accessible
        STATUS current
        DESCRIPTION
                "The DS3 PM Threshold table."
        ::= { pport 7 }

ds3pmThresholdEntry OBJECT-TYPE
        SYNTAX  Ds3pmThresholdEntry
        MAX-ACCESS  not-accessible
        STATUS current
        DESCRIPTION
                "An entry in the DS3 PM Threshold table."
        INDEX   { switchIdIndex, slotIdIndex, pportIdIndex }
        ::= { ds3pmThresholdTable 1 }

Ds3pmThresholdEntry ::=
        SEQUENCE {
         ds3pmThreshCrossingEnable
            INTEGER ,
         ds3pmThreshCVLCurrent
             Integer32,
         ds3pmThreshCVLDay
             Integer32,
         ds3pmThreshESLCurrent
             Integer32,
         ds3pmThreshESLDay
             Integer32,
         ds3pmThreshSESLCurrent
             Integer32,
         ds3pmThreshSESLDay
             Integer32,
         ds3pmThreshCVPCurrent
             Integer32,
         ds3pmThreshCVPDay
             Integer32,
         ds3pmThreshESPCurrent
             Integer32,
         ds3pmThreshESPDay
             Integer32,
         ds3pmThreshSESPCurrent
             Integer32,
         ds3pmThreshSESPDay
             Integer32,
         ds3pmThreshSASPCurrent
             Integer32,
         ds3pmThreshSASPDay
             Integer32,
         ds3pmThreshUASPCurrent
             Integer32,
         ds3pmThreshUASPDay
             Integer32,
         ds3pmThreshCVCPPCurrent
             Integer32,
         ds3pmThreshCVCPPDay
             Integer32,
         ds3pmThreshESCPPCurrent
             Integer32,
         ds3pmThreshESCPPDay
             Integer32,
         ds3pmThreshSESCPPCurrent
             Integer32,
         ds3pmThreshSESCPPDay
             Integer32,
         ds3pmThreshSASCPPCurrent
             Integer32,
         ds3pmThreshSASCPPDay
             Integer32,
         ds3pmThreshUASCPPCurrent
             Integer32,
         ds3pmThreshUASCPPDay
             Integer32,
         ds3pmThreshESXCurrent
             Integer32,
         ds3pmThreshESXDay
             Integer32,
         ds3pmThreshRowStatus
              RowStatus,
         ds3pmThreshModifyType
              INTEGER
        }

ds3pmThreshCrossingEnable OBJECT-TYPE
        SYNTAX  INTEGER {
                   disabled (1),
                   enabled (2)
                }
        MAX-ACCESS  read-write
```

```
        STATUS current
        DESCRIPTION
                "Enable or disabled the detection and emission of
                 threshold crossing alarms."
        ::= { ds3pmThresholdEntry 1 }

ds3pmThreshCVLCurrent OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
            "A threshold on the number of Line Code Violations
            encountered by a DS3 interface in the current 15 minute
            interval."
        DEFVAL {13296}
        ::= { ds3pmThresholdEntry 2 }

ds3pmThreshCVLDay OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
            "A threshold on the number of Line Code Violations
            encountered by a DS3 interface in the 24 hour (Day)
            interval."
        DEFVAL {132960}
        ::= { ds3pmThresholdEntry 3 }

ds3pmThreshESLCurrent OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
            "A threshold on the number of Line Errored Seconds
            encountered by a DS3 interface in the current 15 minute
            interval."
        DEFVAL {65}
       ::= { ds3pmThresholdEntry 4 }

ds3pmThreshESLDay OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
            "A threshold on the number of Line Errored Seconds
            encountered by a DS3 interface in the 24 Hour (Day)
            interval."
        DEFVAL {648}
        ::= { ds3pmThresholdEntry 5 }

ds3pmThreshSESLCurrent OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
        "A threshold on the number of Line Severly Errored Seconds
         encountered by a DS3 interface in the current 15 minute
         interval."
        DEFVAL { 10 }
        ::= { ds3pmThresholdEntry 6 }

ds3pmThreshSESLDay OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
        "A threshold on the number of Line Severly Errored Seconds
         encountered by a DS3 interface in the 24 Hours (Day)
         interval."
        DEFVAL { 100 }
        ::= { ds3pmThresholdEntry 7 }

ds3pmThreshCVPCurrent OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
            "A threshold on the number of Path Coding Violations
            encountered by a DS3 interface in the current 15 minute
            interval."
        DEFVAL { 13296 }
        ::= { ds3pmThresholdEntry 8 }

ds3pmThreshCVPDay OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
            "A threshold on the number of Path Coding Violations
            encountered by a DS3 interface in the 24 Hour (Day)
            interval."
        DEFVAL { 132960 }
        ::= { ds3pmThresholdEntry 9 }

ds3pmThreshESPCurrent OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
            "A threshold on the number of Path Errored Seconds
            encountered by a DS3 interface in the current 15 minute
            interval."
        DEFVAL { 65 }
        ::= { ds3pmThresholdEntry 10 }

ds3pmThreshESPDay OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS  read-write
```

```
        STATUS current
        DESCRIPTION
            "A threshold on the number of Path Errored Seconds
            encountered by a DS3 interface in the 24 Hour (Day)
            interval."
        DEFVAL { 648 }
        ::= { ds3pmThresholdEntry 11 }

ds3pmThreshSESPCurrent OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
            "A threshold on the number of Path Severely Errored
            Seconds encountered by a DS3 interface in the current 15
            minute interval."
        DEFVAL { 10 }
        ::= { ds3pmThresholdEntry 12 }

ds3pmThreshSESPDay OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
         "A threshold on the number of Path Severely Errored
         Seconds encountered by a DS3 interface in the 24 Hour (Day)
         interval."
         DEFVAL { 100 }
        ::= { ds3pmThresholdEntry 13 }

ds3pmThreshSASPCurrent OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
            "A threshold on the number of Path Severely Errored
            Framing/Alarm Indication Signal Seconds encountered by a
            DS3 interface in the current 15 minute interval."
        DEFVAL { 2 }
        ::= { ds3pmThresholdEntry 14 }

ds3pmThreshSASPDay OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
            "A threshold on the number of Path Severely Errored
            Framing/Alarm Indication Signal Seconds encountered by a
            DS3 interface in the 24 Hour (Day)  interval."
        DEFVAL { 17 }
        ::= { ds3pmThresholdEntry 15 }

ds3pmThreshUASPCurrent OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
            "A threshold on the number of Path Unavailable Seconds
            encountered by a DS3 interface in the current 15 minute
            interval."
        DEFVAL { 10 }
        ::= { ds3pmThresholdEntry 16 }

ds3pmThreshUASPDay OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
            "A threshold on the number of Path Unavailable Seconds
            encountered by a DS3 interface in the 24 Hour (Day)
            interval."
        ::= { ds3pmThresholdEntry 17 }

ds3pmThreshCVCPPCurrent OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
         "A threshold on the number of CP-bit Path Coding
          Violations encountered by a DS3 interface in the current
          15 minute interval."
        DEFVAL { 13296 }
        ::= { ds3pmThresholdEntry 18 }

ds3pmThreshCVCPPDay OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
          "A threshold on the number of CP-bit Path Coding
           Violations encountered by a DS3 interface in the 24 Hour
           (Day) interval."
        DEFVAL { 132960 }
        ::= { ds3pmThresholdEntry 19 }

ds3pmThreshESCPPCurrent OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
            "A threshold on the number of CP-bit Path Errored
             Seconds encountered by a DS3 interface in the current 15
             minute interval."
        DEFVAL { 65 }
        ::= { ds3pmThresholdEntry 20 }

ds3pmThreshESCPPDay OBJECT-TYPE
        SYNTAX Integer32
```

```
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
            "A threshold on the number of CP-bit Path Errored
            Seconds encountered by a DS3 interface in the 24 Hour
            (Day) interval."
        DEFVAL { 648 }
        ::= { ds3pmThresholdEntry 21 }

ds3pmThreshSESCPPCurrent OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
        "A threshold on the number of CP-bit Path Severely Errored
         Seconds encountered by a DS3 interface in the current 15
         minute interval."
        DEFVAL { 10 }
        ::= { ds3pmThresholdEntry 22 }

ds3pmThreshSESCPPDay OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
         "A threshold on the number of CP-bit Path Severely Errored
          Seconds encountered by a DS3 interface in the 24 Hour
          (Day) interval."
        DEFVAL { 100 }
        ::= { ds3pmThresholdEntry 23 }

ds3pmThreshSASCPPCurrent OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
        "A threshold on the number of CP-bit Path Severely Errored
         Framing/Alarm Indication Signal Seconds encountered by a
         DS3 interface in the current 15 minute interval."
        DEFVAL { 2 }
        ::= { ds3pmThresholdEntry 24 }

ds3pmThreshSASCPPDay OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
        "A threshold on the number of CP-bit Path Severely Errored
         Framing/Alarm Indication Signal Seconds encountered by a
         DS3 interface in the 24 Hour (Day) interval."
        DEFVAL { 17 }
        ::= { ds3pmThresholdEntry 25 }

ds3pmThreshUASCPPCurrent OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
            "A threshold on the number of CP-bit Path Unavailable
            Seconds encountered by a DS3 interface in the current 15
            minute interval."
        DEFVAL { 10 }
        ::= { ds3pmThresholdEntry 26 }

ds3pmThreshUASCPPDay OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
            "A threshold on the number of CP-bit Path Unavailable
            Seconds encountered by a DS3 interface in the 24 Hour
            (Day) interval."
        DEFVAL { 10 }
        ::= { ds3pmThresholdEntry 27 }

ds3pmThreshESXCurrent OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
            "A threshold on x number of defects in Errored Seconds
            encountered by a DS3 interface in the current 15 minute
            interval."
        DEFVAL { 44 }
        ::= { ds3pmThresholdEntry 28 }

ds3pmThreshESXDay OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
            "A threshold on x number of defects in Errored Seconds
            encountered by a DS3 interface in the 24 Hour (Day)
            interval."
        DEFVAL { 44 }
        ::= { ds3pmThresholdEntry 29 }

ds3pmThreshRowStatus OBJECT-TYPE
        SYNTAX  RowStatus
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
                "."
        ::= { ds3pmThresholdEntry 30}

ds3pmThreshModifyType OBJECT-TYPE
        SYNTAX  INTEGER { normal(1), dbOnly(4), dbOnlySetOutOfSync(5) }
        MAX-ACCESS  read-write
```

```
        STATUS current
        DESCRIPTION
        "By default, writes are stored to the database and the switch.
        Set this to dbOnly to send writes only to the database.
        dbOnlySetOutOfSync sends writes to the database and sets the
        Out of Sync flag in the database.
        This value is re-set to normal after every transaction."
        DEFVAL {normal}
    ::= { ds3pmThresholdEntry 31 }
```

SONET PM Threshold Table

```
-- The SONET PM Threshold Table

-- This table contains 15 minute (current), and 24 hour threshold values
-- used in performance parameter thresholding defined by ANSI T1.231

sonetpmThresholdTable OBJECT-TYPE
        SYNTAX  SEQUENCE OF SonetpmThresholdEntry
        MAX-ACCESS  not-accessible
        STATUS current
        DESCRIPTION
                "The SONET PM Threshold table."
        ::= { pport 8 }

sonetpmThresholdEntry OBJECT-TYPE
        SYNTAX  SonetpmThresholdEntry
        MAX-ACCESS  not-accessible
        STATUS current
        DESCRIPTION
                "An entry in the SONET PM Threshold table."
        INDEX   { switchIdIndex, slotIdIndex, pportIdIndex }
        ::= { sonetpmThresholdTable 1 }

SonetpmThresholdEntry ::=
        SEQUENCE {
               sonetpmThresholdCrossingEnable
                 INTEGER,
               sonetpmSESThresholdSet
                 INTEGER,
               sonetpmThreshCVSCurrent
                 Integer32,
               sonetpmThreshCVSDay
                 Integer32,
               sonetpmThreshESSCurrent
                 Integer32,
               sonetpmThreshESSDay
                 Integer32,
               sonetpmThreshSESSCurrent
                 Integer32,
               sonetpmThreshSESSDay
                 Integer32,
               sonetpmThreshCVLCurrent
                 Integer32,
               sonetpmThreshCVLDay
                 Integer32,
               sonetpmThreshESLCurrent
                 Integer32,
               sonetpmThreshESLDay
                 Integer32,
               sonetpmThreshSESLCurrent
                 Integer32,
               sonetpmThreshSESLDay
                 Integer32,
               sonetpmThreshUASLCurrent
                 Integer32,
               sonetpmThreshUASLDay
                 Integer32,
               sonetpmThreshCVPCurrent
                 Integer32,
               sonetpmThreshCVPDay
                 Integer32,
               sonetpmThreshESPCurrent
                 Integer32,
               sonetpmThreshESPDay
                 Integer32,
               sonetpmThreshSESPCurrent
                 Integer32,
               sonetpmThreshSESPDay
                 Integer32,
               sonetpmThreshUASPCurrent
                 Integer32,
               sonetpmThreshUASPDay
                 Integer32,
               sonetpmThreshRowStatus
                 RowStatus,
               sonetpmThreshModifyType
                 INTEGER
        }

sonetpmThresholdCrossingEnable OBJECT-TYPE
        SYNTAX  INTEGER {
                 disabled (1),
                 enabled (2)
                 }
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
                "Enable or disabled the detection and emission of
                 threshold crossing alerts."
        ::= { sonetpmThresholdEntry 1 }

sonetpmSESThresholdSet OBJECT-TYPE
        SYNTAX  INTEGER {
                  other (1),
                  bellcoreTrNwt253yr1991 (2),
                  ansiT1231yr1993 (3),
                  ituG826yr1995 (4)
                }
```

```
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
                "SES and UAS threshold settings.  The setting determines
                 which standard is used for SES and UAS thresholds.

                   bellcoreTrNwt253yr1991 -
                   refers to Bellcore TR-NWT-000253, 1991 or ANSI
                   T1M1.3/93-005R2,1993
                   ansiT1231yr1993 -
                   refers to ANSI T1.231, 1993 or Bellcore GR-253-CORE,
                   Issue 2, 1995
                   ituG826yr1995 -
                   refers to ITU recommendation G.826, 1995"
        ::= { sonetpmThresholdEntry 2 }

sonetpmThreshCVSCurrent OBJECT-TYPE
        SYNTAX Integer32 (1..16383)
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
                "Current section CV threshold."
        ::= { sonetpmThresholdEntry 3 }

sonetpmThreshCVSDay OBJECT-TYPE
        SYNTAX Integer32 (1..1048575)
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
                "Day total section CV threshold."
        ::= { sonetpmThresholdEntry 4 }

sonetpmThreshESSCurrent OBJECT-TYPE
        SYNTAX Integer32 (1..900)
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
                "Current section ES threshold."
        ::= { sonetpmThresholdEntry 5 }

sonetpmThreshESSDay OBJECT-TYPE
        SYNTAX Integer32 (1..65535)
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
                "Day total ES threshold."
        ::= { sonetpmThresholdEntry 6 }

sonetpmThreshSESSCurrent OBJECT-TYPE
        SYNTAX Integer32 (1..63)
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
                "Current section SES threshold."
        ::= { sonetpmThresholdEntry 7 }

sonetpmThreshSESSDay OBJECT-TYPE
        SYNTAX Integer32 (1..4095)
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
                "Day total SES threshold."
        ::= { sonetpmThresholdEntry 8 }

sonetpmThreshCVLCurrent OBJECT-TYPE
        SYNTAX Integer32 (1..16383)
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
                "Current line CV threshold."
        ::= { sonetpmThresholdEntry 9 }

sonetpmThreshCVLDay OBJECT-TYPE
        SYNTAX Integer32 (1..1048575)
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
                "Day total line CV threshold."
        ::= { sonetpmThresholdEntry 10 }

sonetpmThreshESLCurrent OBJECT-TYPE
        SYNTAX Integer32 (1..900)
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
                "Current line ES threshold."
        ::= { sonetpmThresholdEntry 11 }

sonetpmThreshESLDay OBJECT-TYPE
        SYNTAX Integer32 (1..65535)
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
                "Day total line ES threshold."
        ::= { sonetpmThresholdEntry 12 }

sonetpmThreshSESLCurrent OBJECT-TYPE
        SYNTAX Integer32 (1..63)
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
                "Current line SES threshold."
        ::= { sonetpmThresholdEntry 13 }

sonetpmThreshSESLDay OBJECT-TYPE
        SYNTAX Integer32 (1..4095)
        MAX-ACCESS  read-write
        STATUS current
```

```
        DESCRIPTION
                "Day total line SES threshold."

        ::= { sonetpmThresholdEntry 14 }

sonetpmThreshUASLCurrent OBJECT-TYPE
        SYNTAX Integer32 (1..63)
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
                "Current line UAS threshold."
        ::= { sonetpmThresholdEntry 15 }

sonetpmThreshUASLDay OBJECT-TYPE
        SYNTAX Integer32 (1..4095)
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
                "Day total line UAS threshold."
        ::= { sonetpmThresholdEntry 16 }


sonetpmThreshCVPCurrent OBJECT-TYPE
        SYNTAX Integer32 (1..16383)
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
                "Current path CV threshold."
        ::= { sonetpmThresholdEntry 17 }

sonetpmThreshCVPDay OBJECT-TYPE
        SYNTAX Integer32 (1..1048575)
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
                "Day total path CV threshold."
        ::= { sonetpmThresholdEntry 18 }

sonetpmThreshESPCurrent OBJECT-TYPE
        SYNTAX Integer32 (1..900)
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
                "Current path ES threshold."
        ::= { sonetpmThresholdEntry 19 }

sonetpmThreshESPDay OBJECT-TYPE
        SYNTAX Integer32 (1..65535)
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
                "Day total path ES threshold."

        ::= { sonetpmThresholdEntry 20 }

sonetpmThreshSESPCurrent OBJECT-TYPE
        SYNTAX Integer32 (1..63)
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
                "Current path SES threshold."
        ::= { sonetpmThresholdEntry 21 }

sonetpmThreshSESPDay OBJECT-TYPE
        SYNTAX Integer32 (1..4095)
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
                "Day total path SES threshold."
        ::= { sonetpmThresholdEntry 22 }

sonetpmThreshUASPCurrent OBJECT-TYPE
        SYNTAX Integer32 (1..63)
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
                "Current path UAS threshold."
        ::= { sonetpmThresholdEntry 23 }

sonetpmThreshUASPDay OBJECT-TYPE
        SYNTAX Integer32 (1..4095)
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
                "Day total path UAS threshold."
        ::= { sonetpmThresholdEntry 24 }

sonetpmThreshRowStatus OBJECT-TYPE
        SYNTAX  RowStatus
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
                "."
        ::= { sonetpmThresholdEntry 25}

sonetpmThreshModifyType OBJECT-TYPE
        SYNTAX  INTEGER { normal(1), dbOnly(4), dbOnlySetOutOfSync(5) }
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
        "By default, writes are stored to the database and the switch.
        Set this to dbOnly to send writes only to the database.
        dbOnlySetOutOfSync sends writes to the database and sets the
        Out of Sync flag in the database.
        This value is re-set to normal after every transaction."
        DEFVAL {normal}
    ::= { sonetpmThresholdEntry 27 }
```

```
--  The SVC Address Group
--  The tables that are relevant to managing SVC addresses and prefixes
--  in a Cascade network.
--
```

SVC Node Prefix Table

```
--  SVC Node Prefix Table
--

svcNodePrefixTable OBJECT-TYPE
        SYNTAX SEQUENCE OF SvcNodePrefixEntry
        MAX-ACCESS not-accessible
        STATUS current
        DESCRIPTION
        "A table of prefixes associated with this node."
        ::= { svcaddress 1 }

svcNodePrefixEntry OBJECT-TYPE
        SYNTAX SvcNodePrefixEntry
        MAX-ACCESS not-accessible
        STATUS current
        DESCRIPTION
        "The node prefix entry contains objects relevant to SVC prefixes
         associated with the node."
        INDEX { switchIdIndex, svcNodePrefixIndex }
        ::= { svcNodePrefixTable 1 }

SvcNodePrefixEntry ::=
        SEQUENCE {
                svcNodePrefixIndex
                        DisplayString,
                svcNodePrefixPrefix
                        OCTET STRING,
                svcNodePrefixType
                        INTEGER,
                svcNodePrefixNumBits
                        Integer32,
                svcNodePrefixSourceAddrValidation
                        INTEGER,
                svcNodePrefixRouteDetermination
                        INTEGER,
                svcNodePrefixAddrRegistration
                        INTEGER,
                svcNodePrefixRowStatus
                        RowStatus,
                svcNodePrefixModifyType
                        INTEGER
        }

svcNodePrefixNumBits OBJECT-TYPE
        SYNTAX Integer32 (1..160)
        MAX-ACCESS read-only
        STATUS current
        DESCRIPTION
        "The number of valid bits associated with this entry's prefix
         object. By default, this value will be 8 times the prefix
         object's octet string length.  This value must be consistent
         with the number of octets specified in the node prefix."
        ::= { svcNodePrefixEntry 1 }

svcNodePrefixType   OBJECT-TYPE
        SYNTAX INTEGER {
           e164Native(1),
           atmEndsystem(2),
           unknown(4),
           dccAesa(100),
           icdAesa(101),
           e164Aesa(102),
           customAesa(103),
           defaultRoute(104),
           userPart(105)
        }
        MAX-ACCESS read-only
        STATUS current
        DESCRIPTION
        "The numbering plan corresponding to this entry's prefix object."
        ::= { svcNodePrefixEntry 2 }

svcNodePrefixPrefix OBJECT-TYPE
        SYNTAX OCTET STRING (SIZE(1..20))
        MAX-ACCESS read-only
        STATUS current
        DESCRIPTION
        "A prefix associated with this node.  E.164 prefixes are coded as
         1-15 ASCII octets with no leading padding required.  ATM
         endsystem prefixes are coded as 1-20 binary octets.  Unused bits
         in the last octet must be set to 0."
        ::= { svcNodePrefixEntry 3 }

svcNodePrefixSourceAddrValidation  OBJECT-TYPE
        SYNTAX INTEGER {
                enable (5),
                disable (1)
        }
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
        "Used to enable/disable SVC source address validation."
        ::= { svcNodePrefixEntry 4 }

svcNodePrefixRouteDetermination OBJECT-TYPE
        SYNTAX INTEGER {
                enable (3),
                disable (1)
        }
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
```

```
        "Used to enable/disable SVC route determination. "
        ::= { svcNodePrefixEntry 5 }

svcNodePrefixAddrRegistration OBJECT-TYPE
        SYNTAX INTEGER {
                enable (9),
                disable (1)
        }
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
        "Used to enable/disable ILMI address registration. "
        ::= { svcNodePrefixEntry 6 }

svcNodePrefixRowStatus OBJECT-TYPE
        SYNTAX RowStatus
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
                " "
        ::= { svcNodePrefixEntry 7 }

svcNodePrefixModifyType OBJECT-TYPE
        SYNTAX  INTEGER { normal(1), dbOnly(4), dbOnlySetOutOfSync(5) }
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
        "By default, writes are stored to the database and the switch.
        Set this to dbOnly to send writes only to the database.
        dbOnlySetOutOfSync sends writes to the database and sets the
        Out of Sync flag in the database.
        This value is re-set to normal after every transaction."
        DEFVAL {normal}
    ::= { svcNodePrefixEntry 8 }

svcNodePrefixIndex OBJECT-TYPE
        SYNTAX DisplayString
        MAX-ACCESS not-accessible
        STATUS current
        DESCRIPTION
                "Index for SVC Node Prefix."
        ::= { svcNodePrefixEntry 9 }
```

SVC Port Prefix Table

```
--  SVC Port Prefix Table
--

ssvcPortPrefixTable OBJECT-TYPE
        SYNTAX SEQUENCE OF SvcPortPrefixEntry
        MAX-ACCESS not-accessible
        STATUS current
        DESCRIPTION
        "A table of SVC address prefixes associated with ports on this
         node."
        ::= { svcaddress 2 }

svcPortPrefixEntry OBJECT-TYPE
        SYNTAX SvcPortPrefixEntry
        MAX-ACCESS not-accessible
        STATUS current
        DESCRIPTION
        "The prefix entry contains objects relevant to SVC prefixes
         associated with this port.  Note that the index variable,
         svcPortPrefixPrefix is a variable length octet string and as
         such is encoded with the octet string length per RFC1212,
         section 4.1.6."
        INDEX { switchIdIndex, lportIfIndex, svcPortPrefixIndex }
        ::= { svcPortPrefixTable 1 }

SvcPortPrefixEntry ::=
        SEQUENCE {
                svcPortPrefixPrefix
                        OCTET STRING,
                svcPortPrefixType
                        INTEGER,
                svcPortPrefixNumBits
                        Integer32,
                svcPortPrefixAdminCost
                        Integer32,
                svcPortPrefixLocalGatewayAddress
                        OCTET STRING,
                svcPortPrefixRemoteGatewayAddress
                        OCTET STRING,
                svcPortPrefixSourceAddrValidation
                        INTEGER,
                svcPortPrefixRouteDetermination
                        INTEGER,
                svcPortPrefixAddrRegistration
                        INTEGER,
                svcPortPrefixRowStatus
                        RowStatus,
                svcPortPrefixModifyType
                        INTEGER,
                svcPortPrefixCugTermination
                        INTEGER,
                svcPortPrefixIndex
                        DisplayString
        }

svcPortPrefixNumBits OBJECT-TYPE
        SYNTAX Integer32 (0..160)
        MAX-ACCESS read-only
        STATUS current
        DESCRIPTION
        "The number of valid bits associated with this entry's prefix
         object. By default, this value will be 8 times the prefix
         object's octet string length.  This value must be consistent
         with the number of octets specified in the prefix.  The value 0
```

```
         presents a special case and may only be set when the prefix,
         itself, is a single octet of value 0.  A 0-length prefix on this
         port signifies a default route to the switch's
                 routing function."
        ::= { svcPortPrefixEntry 1 }

svcPortPrefixType OBJECT-TYPE
        SYNTAX INTEGER {
            e164native(1),
            atmEndSystem(2),
            unknown(4),
            dccAesa(100),
            icdAesa(101),
            e164Aesa(102),
            customAesa(103),
            defaultRoute(104),
            userPart(105)
           }
        MAX-ACCESS read-only
        STATUS current
        DESCRIPTION
        "The numbering plan corresponding to this entry's prefix object."
        ::= { svcPortPrefixEntry 2 }

svcPortPrefixPrefix OBJECT-TYPE
        SYNTAX OCTET STRING (SIZE(1..20))
        MAX-ACCESS read-only
        STATUS current
        DESCRIPTION
        "A prefix associated with this port.  E.164 prefixes are coded as
         1-15 ASCII octets with no leading padding required.  ATM
         endsystem prefixes are coded as 1-20 binary octets.  Unused bits
                 in the last octet must be set to 0.

                 For ATM DCE ports, only, atm-endsystem prefixes with
                 length 104 bits (13 octets) and all E.164 prefixes are
                 eligible for ILMI address registration."
        ::= { svcPortPrefixEntry 3 }

svcPortPrefixAdminCost OBJECT-TYPE
        SYNTAX Integer32 (0..65535)
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
                "The administrative cost associated with this prefix."
        ::= { svcPortPrefixEntry 4 }

svcPortPrefixLocalGatewayAddress OBJECT-TYPE
        SYNTAX OCTET STRING (SIZE(0..20))
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
        "This object is only relevant for ports connecting this network to
         another network and is used to replace the calling party number
         when egress address translation is configured to the appropriate
         mode. E.164 addresses are coded as 1-15 ASCII octets.
         Atm-endsystem addresses are coded as 20 octet binary addresses.
         A 0 length octet string will invalidate this object."
        ::= { svcPortPrefixEntry 5 }

svcPortPrefixRemoteGatewayAddress OBJECT-TYPE
        SYNTAX OCTET STRING (SIZE(0..20))
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
        "This object is only relevant for ports connecting this network to
         another network and is used to replace the calling party number
         when egress address translation is configured to the appropriate
         mode. E.164 addresses are coded as 1-15 ASCII octets.
         Atm-endsystem addresses are coded as 20 octet binary addresses.
         A 0 length octet string will
                 invalidate this object."
        ::= { svcPortPrefixEntry 7 }

svcPortPrefixSourceAddrValidation  OBJECT-TYPE
        SYNTAX INTEGER {
                disable (1),
                enable (5)
        }
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
        "Used to enable/disable SVC port source address validation."
        ::= { svcPortPrefixEntry 9 }

svcPortPrefixRouteDetermination OBJECT-TYPE
        SYNTAX INTEGER {
                disable (1),
                enable (3)
        }
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
         "Used to enable/disable SVC port route determination "
        ::= { svcPortPrefixEntry 10 }

svcPortPrefixAddrRegistration OBJECT-TYPE
        SYNTAX INTEGER {
                disable (1),
                enable (9)
        }
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
         "Used to enable/disable port ILMI address registration"
        ::= { svcPortPrefixEntry 11 }

svcPortPrefixRowStatus OBJECT-TYPE
```

```
        SYNTAX RowStatus
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
                " "
        ::= { svcPortPrefixEntry 12 }

svcPortPrefixModifyType OBJECT-TYPE
        SYNTAX  INTEGER { normal(1), dbOnly(4), dbOnlySetOutOfSync(5) }
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
        "By default, writes are stored to the database and the switch.
        Set this to dbOnly to send writes only to the database.
        dbOnlySetOutOfSync sends writes to the database and sets the
        Out of Sync flag in the database.
        This value is re-set to normal after every transaction."
        DEFVAL {normal}
    ::= { svcPortPrefixEntry 13 }

svcPortPrefixCugTermination OBJECT-TYPE
        SYNTAX INTEGER {
                disable (1),
                enable (33)
        }
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
        "."
    ::= { svcPortPrefixEntry 8 }

svcPortPrefixIndex OBJECT-TYPE
        SYNTAX DisplayString
        MAX-ACCESS not-accessible
        STATUS current
        DESCRIPTION
                "Index for SVC Port Prefix."
        ::= { svcPortPrefixEntry 14 }
```

SVC Addr Table

```
--    SVC Addr Table
--

svcAddrTable OBJECT-TYPE
        SYNTAX SEQUENCE OF SvcAddrEntry
        MAX-ACCESS not-accessible
        STATUS current
        DESCRIPTION
        "A table of SVC addresses associated with with ports on this
         node."
        ::= { svcaddress 3 }

svcAddrEntry OBJECT-TYPE
        SYNTAX SvcAddrEntry
        MAX-ACCESS not-accessible
        STATUS current
        DESCRIPTION
        "The  address entry contains objects relevant to SVC addresses
         associated with this port.  Note that the index variable,
         svcAddrAddress is a variable length octet string and as
         such is encoded with the octet string length per RFC1212,
         section 4.1.6."
        INDEX { switchIdIndex, lportIfIndex, svcAddrAddressIndex }
        ::= { svcAddrTable 1 }

SvcAddrEntry ::=
        SEQUENCE {
                svcAddrAddressIndex
                    DisplayString,
                svcAddrAddress
                    OCTET STRING,
                svcAddrType
                    INTEGER,
                svcAddrNumBits
                    Integer32,
                svcAddrAdminCost
                    Integer32,
                svcAddrSourceAddrValidation
                    INTEGER,
                svcAddrRouteDetermination
                    INTEGER,
                svcAddrPvpTermination
                    INTEGER,
                svcAddrPvcTermination
                    INTEGER,
                svcAddrPvcConnId
                    INTEGER,
                svcAddrRowStatus
                    RowStatus,
                svcAddrModifyType
                    INTEGER,
                svcAddrCugTermination
                    INTEGER,
                svcAddrVpi
                    Integer32,
                svcAddrVci
                    Integer32
        }

svcAddrType OBJECT-TYPE
        SYNTAX INTEGER {
            e164Native(1),
            atmEndSystem(2),
            unknown(4),
            dccAesa(100),
            icdAesa(101),
            e164Aesa(102),
            customAesa(103),
```

```
            defaultRoute(104),
            userPart(105)
           }
        MAX-ACCESS read-only
        STATUS current
        DESCRIPTION
        "The numbering plan corresponding to this entry's address object."
        ::= { svcAddrEntry 2 }

svcAddrAddress OBJECT-TYPE
        SYNTAX OCTET STRING (SIZE(1..20))
        MAX-ACCESS read-only
        STATUS current
        DESCRIPTION
        "An address associated with this port.  E.164 addresses are coded
         as 1-15 ASCII octets.  ATM-Endsystem addresses are coded as 20
         binary octets."
        ::= { svcAddrEntry 1 }

svcAddrNumBits OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS read-only
        STATUS current
        DESCRIPTION
                ""
        ::= { svcAddrEntry 3 }

svcAddrAdminCost OBJECT-TYPE
        SYNTAX Integer32 (0..65535)
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
                "The administrative cost associated with this address."
        ::= { svcAddrEntry 4 }

svcAddrSourceAddrValidation  OBJECT-TYPE
        SYNTAX INTEGER {
                enable (5),
                disable (1)
        }
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
        "Used to enable/disable SVC port source address validation."
        ::= { svcAddrEntry 5 }

svcAddrRouteDetermination OBJECT-TYPE
        SYNTAX INTEGER {
                enable (3),
                disable (1)
        }
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
                "Used to enable/disable SVC port route determination "
        ::= { svcAddrEntry 6 }

svcAddrPvpTermination OBJECT-TYPE
        SYNTAX INTEGER {
                disabled(1),
                enabled(17)
        }
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
                "."
        ::= { svcAddrEntry 7 }

svcAddrPvcTermination OBJECT-TYPE
        SYNTAX INTEGER {
                disabled(1),
                enabled(2)
        }
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
                ""
        ::= { svcAddrEntry 8 }

svcAddrPvcConnId OBJECT-TYPE
        SYNTAX INTEGER {
                any(1),
                specific(2)
        }

        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
                "This object specifies the connection ID associated
                 with this address.  It is applicable only if either
                 of but not both of the PVC termination or PVP termination
                 attributes are set.  It is interpreted as a 32-bit
                 integer with VPI and VCI/DLCI fields as follows:

                 bit    31              16 15           0
                        |-----------------|--------------|
                        |       VPI       |   VCI/DLCI   |
                        |-----------------|--------------|

                 For ATM PVC/PVP termination, a VPI of 0 and VCI of 0
                 indicate that the switch may select any VPI/VCI, as
                 appropriate.  For PVP termination, the VCI must be
                 coded as 0.

                 For Frame Relay PVC termination, the VPI must be coded
                 as 0.  A DLCI of 0 indicates that the switch may
                 select any DLCI, as appropriate."
        ::= { svcAddrEntry 9 }
```

```
svcAddrRowStatus OBJECT-TYPE
        SYNTAX RowStatus
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
                " "
        ::= { svcAddrEntry 10 }

svcAddrModifyType OBJECT-TYPE
        SYNTAX  INTEGER { normal(1), dbOnly(4), dbOnlySetOutOfSync(5) }
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
        "By default, writes are stored to the database and the switch.
        Set this to dbOnly to send writes only to the database.
        dbOnlySetOutOfSync sends writes to the database and sets the
        Out of Sync flag in the database.
        This value is re-set to normal after every transaction."
        DEFVAL {normal}
        ::= { svcAddrEntry 11 }

svcAddrCugTermination OBJECT-TYPE
        SYNTAX INTEGER {
                disabled(1),
                enabled(33)
        }
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
        "."
        ::= { svcAddrEntry 15 }

svcAddrVpi OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
        "."
        ::= { svcAddrEntry 16 }

svcAddrVci OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
        "."
        ::= { svcAddrEntry 17 }

svcAddrAddressIndex OBJECT-TYPE
        SYNTAX DisplayString
        MAX-ACCESS not-accessible
        STATUS current
        DESCRIPTION "Index for an ATM SVC address."
        ::= { svcAddrEntry  18}
```

SVC ATM User Part Table

```
--    SVC ATM User Part Table
--

svcAtmDteUserPartTable OBJECT-TYPE
        SYNTAX SEQUENCE OF SvcAtmDteUserPartEntry
        MAX-ACCESS not-accessible
        STATUS current
        DESCRIPTION
        "A table of partial SVC addresses associated with ports on this
         node, relevant only to ATM DTE ports for use in ILMI address
         registration."
        ::= { svcaddress 4 }

svcAtmDteUserPartEntry OBJECT-TYPE
        SYNTAX SvcAtmDteUserPartEntry
        MAX-ACCESS not-accessible
        STATUS current
        DESCRIPTION
        "The user part entry contains objects relevant to partial SVC
         addresses associated with ATM DTE ports on this node."
        INDEX { switchIdIndex, lportIfIndex, svcAtmDteUserPartIndex }
        ::= { svcAtmDteUserPartTable 1 }

SvcAtmDteUserPartEntry ::=
        SEQUENCE {
            svcAtmDteUserPartIndex
                DisplayString,
            svcAtmDteUserPartUserPart
                OCTET STRING,
            svcAtmDteUserPartType
                INTEGER,
            svcAtmDteUserPartNumBits
                Integer32,
            svcAtmDteUserPartRowStatus
                RowStatus,
            svcAtmDteUserPartModifyType
                INTEGER
        }

svcAtmDteUserPartIndex OBJECT-TYPE
        SYNTAX DisplayString
        MAX-ACCESS not-accessible
        STATUS current
        DESCRIPTION "Index for an ATM endsystem address."
        ::= { svcAtmDteUserPartEntry  1}

svcAtmDteUserPartUserPart OBJECT-TYPE
        SYNTAX OCTET STRING (SIZE(7))
        MAX-ACCESS read-only
        STATUS current
        DESCRIPTION
```

```
        "A partial ATM endsystem address associated with this ATM DTE
         port. It will be combined with ATM endsystem prefixes received
         from the peer DCE to form a full ATM endsystem address.  This
         object is coded as 7 binary octets."
        ::= { svcAtmDteUserPartEntry 2 }

svcAtmDteUserPartRowStatus OBJECT-TYPE
        SYNTAX RowStatus
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
        "Row status active(1)
                 notInService(2)
                 notReady(3)
                 createAndGo(4)
                 createAndWait(5)
                 destroy(6)"

        ::= { svcAtmDteUserPartEntry 5 }

svcAtmDteUserPartModifyType OBJECT-TYPE
        SYNTAX   INTEGER { normal(1), dbOnly(4), dbOnlySetOutOfSync(5) }
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
        "By default, writes are stored to the database and the switch.
        Set this to dbOnly to send writes only to the database.
        dbOnlySetOutOfSync sends writes to the database and sets the
        Out of Sync flag in the database.
        This value is re-set to normal after every transaction."
        DEFVAL {normal}
        ::= { svcAtmDteUserPartEntry 6 }

svcAtmDteUserPartType OBJECT-TYPE
        SYNTAX INTEGER {
        userPart(105)
        }

        MAX-ACCESS read-only
        STATUS current
        DESCRIPTION
                "."
        ::= { svcAtmDteUserPartEntry 3 }

svcAtmDteUserPartNumBits OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS read-only
        STATUS current
        DESCRIPTION
                "."
        ::= { svcAtmDteUserPartEntry 4 }

--  The SVC Management Group
--
--  The tables that are relevant to managing ATM SVC's in a Cascade
network.
--
```

SVC Configuration Table

```
--      SVC Configuration Table
--

svcConfigTable OBJECT-TYPE
        SYNTAX  SEQUENCE OF SvcConfigEntry
        MAX-ACCESS      not-accessible
        STATUS current
        DESCRIPTION
        "A table of SVC configuration parameters associated with logical
         ports. The number of entries is given by the value of ifNumber
         in MIB-II."
        ::= { svcmgt 1 }

svcConfigEntry OBJECT-TYPE
        SYNTAX  SvcConfigEntry
        MAX-ACCESS      not-accessible
        STATUS current
        DESCRIPTION
        "The  SVC configuration  entry contains objects relevant to SVC
         operation on a logical port."
        INDEX   { switchIdIndex, lportIfIndex }
        ::= { svcConfigTable 1 }

SvcConfigEntry ::=
        SEQUENCE {
               svcConfigCgPtyInsertionMode
                    INTEGER,
               svcConfigCgPtyInsertionAddress
                     OCTET STRING,
               svcConfigScrModeNodePrefix
                     INTEGER,
               svcConfigCgPtyPresentationMode
                     INTEGER,
               svcConfigEgressAddrXlateMode
                     INTEGER,
               svcConfigIngressAddrXlateMode
                     INTEGER,
               svcConfigHoldDownTimer
                     Integer32,
               svcConfigLoadBalanceEligibilityDuration
                     Integer32,
               svcConfigRowStatus
                     RowStatus,
               svcConfigModifyType
                     INTEGER,
               svcConfigScrModePrefix
                     INTEGER,
               svcConfigScrModeAddress
                     INTEGER,
```

```
                svcConfigSvcCdvTolerance
                      Integer32,
                svcConfigSvcFailureTrapThresh
                      Integer32,
                svcConfigSvcCugState
                      INTEGER
                svcConfigSvcFrameDiscard
                      INTEGER
                 }

svcConfigCgPtyInsertionMode OBJECT-TYPE
        SYNTAX  INTEGER {
                disabled (1),
                insert (2),     -- insert when absent
                replace (3)     -- insert/replace always
               }
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
        "This object determines whether a statically configured address
         shall be inserted in the calling party address IE for calls
         entering the network at this port."
        ::= { svcConfigEntry 1 }

svcConfigCgPtyInsertionAddress OBJECT-TYPE
        SYNTAX  OCTET STRING (SIZE(0..20))
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
        "The calling party address to use in conjunction with the calling
         party insertion function.  E.164 addresses are coded as 1-15
         ASCII octets.  Atm-endsystem addresses are coded as 20 binary
         octets. A 0 length octet string will NULL the address."
        ::= { svcConfigEntry 2 }

svcConfigScrModeNodePrefix OBJECT-TYPE
        SYNTAX  INTEGER {
                   disable (1),
                   enable (2)
                 }
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
        "The type of screening to perform on the calling party number for
         calls entering the network at this port.  Screening will be
         conducted by performing a bit-wise (for prefixes) or byte-wise
        (for addresses) comparison of the calling party number with the
        appropriate prefix or address database(s), as configured."
        ::= { svcConfigEntry 5 }

svcConfigCgPtyPresentationMode OBJECT-TYPE
        SYNTAX  INTEGER {
                   user (1),        -- use signalled presentation indicator
                   never (2),       -- override signalled presentation and
                                       never present
                   always (3)       -- override signalled presentation and
                                       always present
                 }
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
        "This object controls the circumstances under which the calling
         party number shall be presented at the egress port of the
         network."
        ::= { svcConfigEntry 6 }

svcConfigEgressAddrXlateMode OBJECT-TYPE
        SYNTAX  INTEGER {
                   disabled (1),
                   tunnelWhenCalledPartyMatchesPrefix (2),
                   replaceWhenCalledPartyMatchesPrefix (3),
                   translateE164NativeToNsap (4),
                   translateE164NsapToNative (5)
                 }
        MAX-ACCESS      read-write
        STATUS current
        DESCRIPTION
        "This object determines the type of address translation, if any
         to occur for calls exiting the network at this port.

         The tunnelling mode will screen the called address against the
         prefixes configured for his port.  If no match is found, no
         action is taken.  If a remote gateway address is configured for
         the matching prefix entry, the called party address will be
         tunnelled as a called subaddress and the configured remote
         gateway address will be inserted as the called party address.
         If a local gateway address is configured for the matching prefix
         entry, the calling party address, if present, will be tunnelled
         as a calling subaddress and the configured local gateway
         address, if present, will be inserted as the calling party.

         The replacement mode will operate as does the tunnelling mode,
         except the original called and calling party addresses will be
         discarded.

         The two translation modes are used for address interworking
         between networks using E.164 ATM Endsystem addresses and native
         ISDN E.164 addresses."
        ::= { svcConfigEntry 7 }

svcConfigIngressAddrXlateMode OBJECT-TYPE
        SYNTAX  INTEGER {
                   disabled (1),
                   tunnel(2),
                   translateE164NativeToNsap (4),
                   translateE164NsapToative (5)
                 }
        MAX-ACCESS      read-write
```

```
        STATUS current
        DESCRIPTION
        "This object determines the type of address translation, if any
         to occur for calls entering the network at this port.

         The tunnelling mode reverses the actions of egress tunnelling.
                 If a called subaddress is present, it will replace the
                 called party address, which will be discarded.  If a
                 calling subaddress is present, it will replace the
                 calling party address, which will be discarded.

                 The two translation modes are used for address
                 interworking between networks using E.164 ATM Endsystem
                 addresses and native ISDN E.164 addresses."
        ::= { svcConfigEntry 8 }

svcConfigHoldDownTimer  OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
        "The duration in seconds (1..255) the network is allowed
         to re-establish a SVC after network failure before clearing the
         SVC. A value of (0) indicates immediate SVC clearing by the
         network."
 ::= {svcConfigEntry 9}

svcConfigLoadBalanceEligibilityDuration OBJECT-TYPE
        SYNTAX Integer32 (0..65535)
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
         "The minimum duration for an SVC, in seconds, before it
          becomes eligible for load balancing.  The distinguished
          value, 0, indicates no load balancing for SVC's originating
          at this interface."
        DEFVAL { 3600 }
        ::= {svcConfigEntry 10}

svcConfigRowStatus  OBJECT-TYPE
        SYNTAX RowStatus
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
                "."
    ::= {svcConfigEntry 11 }

svcConfigModifyType  OBJECT-TYPE
        SYNTAX  INTEGER { normal(1), dbOnly(4), dbOnlySetOutOfSync(5) }
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
        "By default, writes are stored to the database and the switch.
        Set this to dbOnly to send writes only to the database.
        dbOnlySetOutOfSync sends writes to the database and sets the
        Out of Sync flag in the database.
        This value is re-set to normal after every transaction."
        DEFVAL {normal}
    ::= {svcConfigEntry 12 }

svcConfigScrModePrefix  OBJECT-TYPE
        SYNTAX INTEGER {
                 disable (1),
                 enable (3)
             }
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
                "."
    ::= {svcConfigEntry 16 }

svcConfigScrModeAddress  OBJECT-TYPE
        SYNTAX INTEGER {
                  disable (1),
                  enable (5)
               }
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
                "."
    ::= {svcConfigEntry 17 }

svcConfigSvcCdvTolerance  OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
        "The Cell Delay Variation Tolerance for the Svc Configuration."
    ::= {svcConfigEntry 18 }

svcConfigSvcFailureTrapThresh  OBJECT-TYPE
        SYNTAX Integer32
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
                "."
    ::= {svcConfigEntry 19 }

svcConfigSvcCugState  OBJECT-TYPE
        SYNTAX INTEGER {
                  disable (1),
                  enable (2)
              }
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
                "."
    ::= {svcConfigEntry 20 }
```

```
svcConfigSvcFrameDiscard  OBJECT-TYPE
        SYNTAX INTEGER {
                  disable (1),
                  enable (2)
               }
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
                "."
    ::= {svcConfigEntry 21 }
```

Atm Traffic Descriptor Pool Table

```
-- Atm Traffic Descriptor Pool Table
-- The index is Traffic Descriptor Name

trafficDescriptorPoolTable OBJECT-TYPE
    SYNTAX  SEQUENCE OF TrafficDescriptorPoolEntry
    MAX-ACCESS  not-accessible
    STATUS current
    DESCRIPTION
           "This table contains information on ATM traffic
            descriptor type and the associated parameters."
    ::= { network 15 }

trafficDescriptorPoolEntry OBJECT-TYPE
    SYNTAX  TrafficDescriptorPoolEntry
    MAX-ACCESS  not-accessible
    STATUS current
    DESCRIPTION
           "This list contains ATM traffic descriptor
            type and the associated parameters."
    INDEX   { networkIdIndex, trafficDescriptorName }
    ::= { trafficDescriptorPoolTable  1 }

TrafficDescriptorPoolEntry ::=
    SEQUENCE {
        trafficDescriptorName
            DisplayString,
        trafficDescriptorType
            INTEGER,
        trafficDescriptorParam1
            Integer32 (-2147483648..2147483647),
        trafficDescriptorParam2
            Integer32 (-2147483648..2147483647),
        trafficDescriptorParam3
            Integer32 (-2147483648..2147483647),
        trafficDescriptorQoSClass
            Integer32,
        trafficDescriptorRowStatus
            RowStatus,
        trafficDescriptorModifyType
           INTEGER
    }

trafficDescriptorName  OBJECT-TYPE
    SYNTAX DisplayString
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION "Customer assigned name of this Traffic Descriptor."
    ::= { trafficDescriptorPoolEntry 1}

trafficDescriptorType OBJECT-TYPE
    SYNTAX  INTEGER {
               pcrClp0PcrClp01 (1),
               pcrClp0PcrClp01Tagging (2),
               pcrClp01ScrClp0MbsClp0 (3),
               pcrClp01ScrClp0MbsClp0Tagging (4),
               pcrClp01 (5),
               pcrClp01ScrClp01MbsClp01 (6),
               pcrClp01BestEffort (7),
               pcrClp0McrClp0 (8),
               bestEffort (9)
            }
    MAX-ACCESS  read-write
    STATUS current
    DESCRIPTION
           "The value of this object identifies the type
            of ATM traffic descriptor.
            The type may indicate no traffic descriptor or
            traffic descriptor with one or more parameters.
            These parameters are specified as a parameter
            vector, in the corresponding instances of the
            objects:
            trafficDescriptorParam1
            trafficDescriptorParam2
            trafficDescriptorParam3
            trafficDescriptorParam4
            trafficDescriptorParam5.
            The attribute cannot be modified after creation."
    ::= { trafficDescriptorPoolEntry  2 }

trafficDescriptorParam1 OBJECT-TYPE
    SYNTAX Integer32 (-2147483648..2147483647)
    MAX-ACCESS  read-write
    STATUS current
    DESCRIPTION
           "The first parameter of the ATM traffic descriptor
            used according to the value of trafficDescriptorType.
            The attribute cannot be modified after creation."
    DEFVAL  { 0 }
    ::= { trafficDescriptorPoolEntry  3 }

trafficDescriptorParam2 OBJECT-TYPE
    SYNTAX Integer32 (-2147483648..2147483647)
    MAX-ACCESS  read-write
    STATUS current
    DESCRIPTION
```

```
        "The second parameter of the ATM traffic descriptor
         used according to the value of trafficDescriptorType.
         The attribute cannot be modified after creation."
    DEFVAL  { 0 }
    ::= { trafficDescriptorPoolEntry  4 }

trafficDescriptorParam3 OBJECT-TYPE
    SYNTAX Integer32 (-2147483648..2147483647)
    MAX-ACCESS  read-write
    STATUS current
    DESCRIPTION
        "The third parameter of the ATM traffic descriptor
         used according to the value of trafficDescriptorType.
         The attribute cannot be modified after creation."
    DEFVAL  { 0 }
    ::= { trafficDescriptorPoolEntry  5 }

trafficDescriptorQoSClass OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS  read-write
    STATUS current
    DESCRIPTION
        "The value of this object identifies the QoS Class.
         Four Service classes have been
         specified in the ATM Forum UNI Specification:
         Service Class A: Constant bit rate video and
                          Circuit emulation
         Service Class B: Variable bit rate video/audio
         Service Class C: Connection-oriented data
         Service Class D: Connectionless data
         Four QoS classes numbered 1, 2, 3, and 4 have
         been specified with the aim to support service
         classes A, B, C, and D respectively.
         An unspecified QoS Class numbered '0' is used
         for best effort traffic.
         The attribute cannot be modified after creation."
    DEFVAL  { 0 }
    ::= { trafficDescriptorPoolEntry  6 }

trafficDescriptorRowStatus OBJECT-TYPE
    SYNTAX  RowStatus
    MAX-ACCESS  read-write
    STATUS current
    DESCRIPTION
        "This object is used to create a new row or modify or delete an
         existing row in this table."
    DEFVAL  { active }
    ::= { trafficDescriptorPoolEntry  7 }

trafficDescriptorModifyType OBJECT-TYPE
        SYNTAX  INTEGER { normal(1), dbOnly(4), dbOnlySetOutOfSync(5) }
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
            "By default, writes are stored to the database and the switch.
             Set this to dbOnly to send writes only to the database.
             dbOnlySetOutOfSync sends writes to the database and sets the
             Out of Sync flag in the database.
             This value is re-set to normal after every transaction."
        DEFVAL {normal}
    ::= { trafficDescriptorPoolEntry 8 }
```

PFdl Table for Extented Superframe Attributes

```
--    PFDL
--
--    Extended Superframe attributes for PPort valid only of 8 port Atm T1
--    card on Cascade 500 switches
--
--    The PFDL Table for Extented Superframe attributes

pportPFdlTable OBJECT-TYPE
        SYNTAX  SEQUENCE OF PportPFdlEntry
        MAX-ACCESS      not-accessible
        STATUS current
        DESCRIPTION
        "A table of extended superframe attributes associated with 8 port
         Atm T1 pports."
        ::= { pport 4 }

pportPFdlEntry OBJECT-TYPE
        SYNTAX  PportPFdlEntry
        MAX-ACCESS  not-accessible
        STATUS current
        DESCRIPTION
               "Information of a Extended Superframe "
        INDEX   { switchIdIndex, slotIdIndex, pportIdIndex }
        ::= { pportPFdlTable 1 }

PportPFdlEntry ::=
        SEQUENCE {
            pportPFdlControl
                INTEGER,
            pportPFdlPrmTransmission
                 INTEGER,
            pportPFdlPathIdTransmission
                 INTEGER,
             pportPFdlEquipmentCode
                 DisplayString,
             pportPFdlLocationCode
                 DisplayString,
             pportPFdlFrameCode
                 DisplayString,
             pportPFdlUnitCode
                 DisplayString,
             pportPFdlFacilityCode
                 DisplayString,
             pportPFdlRowStatus
```

```
                RowStatus,
            pportPFdlModifyType
                INTEGER
               }

pportPFdlControl OBJECT-TYPE
        SYNTAX INTEGER {
                disabled(1),
                enabled(2)
        }
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
        "Enables or Disables FDL Function for DS1 ESF pport."
        ::= { pportPFdlEntry 1 }

pportPFdlPrmTransmission OBJECT-TYPE
        SYNTAX INTEGER {
                disabled(1),
                enabled(2)
        }
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
        "Enables or Disables transmission of Performance Monitoring Report
                  (PRM) messages on the DS1 ESF FDL."
        ::= { pportPFdlEntry 2 }

pportPFdlPathIdTransmission OBJECT-TYPE
        SYNTAX INTEGER {
                disabled(1),
                enabled(2)
        }
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
        "Enables or Disables transmission of Path ID (PID) messages on
         the DS1 ESF FDL"
        ::= { pportPFdlEntry 3 }

pportPFdlEquipmentCode OBJECT-TYPE
        SYNTAX DisplayString
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
        "Equipment Code of Transmission Path ID (PID) on the DS1 ESF FDL"
        ::= { pportPFdlEntry 4 }

pportPFdlLocationCode OBJECT-TYPE
        SYNTAX DisplayString
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
        "Location Code of Transmission Path ID (PID) on the DS1 ESF FDL"
        ::= { pportPFdlEntry 5 }

pportPFdlFrameCode OBJECT-TYPE
        SYNTAX DisplayString
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
        "Frame Code of Transmission Path ID (PID) on the DS1 ESF FDL"
        ::= { pportPFdlEntry 6 }

pportPFdlUnitCode OBJECT-TYPE
        SYNTAX DisplayString
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
        "Unit Code of Transmission Path ID (PID) on the DS1 ESF FDL"
        ::= { pportPFdlEntry 7 }

pportPFdlFacilityCode OBJECT-TYPE
        SYNTAX DisplayString
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
         "Facility Code of Transmission Path ID (PID) on the DS1 ESF FDL"
        ::= { pportPFdlEntry 8 }

pportPFdlRowStatus OBJECT-TYPE
        SYNTAX RowStatus
        MAX-ACCESS read-write
        STATUS current
        DESCRIPTION
        "Row status active(1) - Row is currently usable.
         notInService(2) - Row has been created and initialized but not
         made active by client.
         notReady(3)  - Not supported
         createAndGo(4) - Not supported.
         createAndWait(5) - Not supported.
         destroy(6) - Not supported."
    ::= { pportPFdlEntry 9 }

pportPFdlModifyType OBJECT-TYPE
        SYNTAX  INTEGER { normal(1), dbOnly(4), dbOnlySetOutOfSync(5) }
        MAX-ACCESS  read-write
        STATUS current
        DESCRIPTION
        "By default, writes are stored to the database and the switch.
        Set this to dbOnly to send writes only to the database.
        dbOnlySetOutOfSync sends writes to the database and sets the
        Out of Sync flag in the database.
        This value is re-set to normal after every transaction."
        DEFVAL {normal}
    ::= { pportPFdlEntry 10 }
```

SMIv1 Conformance Definitions

```
-- the following is a collection of related object type definitions.
-- It is a logical grouping of object types. Every object type with a
-- value for the MAX-ACCESS clause other than "not-accessible" must
-- be a member of at least one object group.

cmdErrorGroup OBJECT-GROUP
    OBJECTS {cmdErrorErrorCode, cmdErrorErrorMsg, cmdErrorErrorIndex,
             cmdErrorErrorStatus, cmdErrorTimeStamp, cmdErrorErrorOid}
    STATUS current
    DESCRIPTION " A collection of objects providing information about a
                 a error condition."
    ::= { psGroups 1}

psStatsGroup OBJECT-GROUP
    OBJECTS {psStatsPid, psStatsSoftwareRev, psStatsTransactionsProcessed,
             psStatsReqsOutstanding, psStatsInternalLocks,
             psStatsExternalLocks }
   STATUS current
   DESCRIPTION "A collection of objects used to  manage and monitor the
                Provisioning Server process itself."
   ::= { psGroups 2}

lportIndexTranslationGroup OBJECT-GROUP
    OBJECTS {vpiVciIndexTransIfIndex, vpiVciIndexTransRowStatus,
             vpiVciIndexModifyType,
             lportIdIndexTransIfIndex, lportIdIndexTransRowStatus,
             lportIdIndexModifyType,
             vpiVciChannelIndexIfIndex, vpiVciChannelIndexRowStatus,
             vpiVciChannelIndexModifyType,
             lportIdChannelIndexIfIndex, lportIdChannelIndexRowStatus,
             lportIdChannelIndexModifyType,
             dlciIndexIfIndex, dlciIndexRowStatus,dlciIndexModifyType,
             dlciChannelIndexIfIndex,
             dlciChannelIndexRowStatus, dlciChannelIndexModifyType,
             vpiStartIndexTransIfIndex,
         vpiStartIndexTransRowStatus, vpiStartIndexModifyType}
   STATUS current
   DESCRIPTION "A collection of object used to retrieve the lport
ifNumber"
   ::= { psGroups 3 }

networkGroup OBJECT-GROUP
    OBJECTS {networkNetId}
    STATUS current
    DESCRIPTION " contains information associated with the managed sub-
                  network"
    ::= { psGroups 4 }

serviceNameGroup OBJECT-GROUP
    OBJECTS {networkServiceNameName, networkServiceNameId,
             networkServiceNameBinding,
             networkServiceNamePrimaryLPort,
             networkServiceNameBackupLPort,
             networkServiceNameNotes, networkServiceNameRowStatus,
             networkServiceNameModifyType}
    STATUS current
    DESCRIPTION "A collection of objects associated with service names."
    ::= { psGroups 5 }

vpnGroup OBJECT-GROUP
    OBJECTS {vpnNumber, vpnComments, vpnRowStatus, vpnModifyType}
    STATUS current
    DESCRIPTION "A collection of objects containing instances of Virtual
                 Private Networks"
    ::= { psGroups 6 }

customerGroup OBJECT-GROUP
    OBJECTS {customerId, customerContactInfo, customerPhoneNumber,
             customerComments, customerVpnName,
             customerRowStatus,customerModifyType}
    STATUS current
    DESCRIPTION "A collection of objects containing instances of Virtual
                 Private Networks"
    ::= { psGroups 7 }

channelGroup OBJECT-GROUP
     OBJECTS {ds1ChannelChannelType, ds1ChannelLinkFraming,
              ds1ChannelZeroCoding,
              ds1ChannelClockSource, ds1ChannelExtClockBackup,
              ds1ChannelDs1LoopbackCodeType,
              ds1ChannelAdminStatus, ds1ChannelAllocatedDs0ChannelCount,
              ds1ChannelAllocatedDs0Channels, ds1ChannelDs0ChannelsInUse,
              ds1ChannelRowStatus, ds1ChannelModifyType }
    STATUS current
    DESCRIPTION "A collection of objects associated with ds1 channels"
    ::= { psGroups 8 }

lportAdminGroup OBJECT-GROUP
     OBJECTS {lportAdminIfIndex, lportAdminLportName,
              lportAdminServiceType, lportAdminVpnName,
              lportAdminCustomerName, lportAdminLoopBackStatus,
              lportAdminCDV, lportAdminNetOverflow,
              lportAdminIsTemplate, lportAdminCanBackupServiceNames,
              lportAdminClosedLoop,  lportAdminMildThreshold,
              lportAdminCheckInterval, lportAdminClearDelay,
              lportAdminBandwidth, lportAdminCongestionThreshold,
              lportAdminErrorPerMinThreshold,
              lportAdminBitStuffing, lportAdminAdminStatus,
              lportAdminCrcChecking, lportAdminBilling,
              lportAdminFractionalDs0s, lportAdminRowStatus,
              lportAdminModifyType, lportAdminTrafficShaperId,
              lportAdminTSPriority, lportAdminTSSustCellRate,
              lportAdminTSPeakCellRate, lportAdminTSBurstTolerance,
              lportAdminSlotId,lportAdminPPortId,
              lportAdminSmdsPduViolThresh, lportAdminSmdsPduViolTcaFlag,
              lportAdminFrBadPvcFactor, lportAdminFrAmberPm,
```

```
            lportAdminFrAmberPs, lportAdminFrSevereThreshold,
            lportAdminFrAbsThreshold }
    STATUS current
    DESCRIPTION " A collection of lport objects that are common between
                  the Frame relay, atm and smds lports"
    ::= { psGroups 9 }

lportFrGroup OBJECT-GROUP
    OBJECTS {lportFrFrameRelayType, lportFrDLCI,lportFrLastInvalidDLCI,
            lportFrLinkMgmtProtocol, lportFrDcePollVerifTimer,
            lportFrDceErrorThreshold,lportFrDceEventCount,
            lportFrDteErrorThreshold,
            lportFrDteEventCount, lportFrDtePollTimer,
            lportFrDteFullPollCounter, lportFrOtherType,
            lportFrLmiUpdateDelay, lportFrCirBeRoutingFactors1,
            lportFrCirBeRoutingFactors2, lportFrQ922Signal,
            lportFrCallAdmissCtrl, lportFrRowStatus, lportFrModifyType,
            lportFrCllmAdminState, lportFrCllmInterval,
            lportFrCllmThresholdNone, lportFrCllmThresholdMild }
    STATUS current
    DESCRIPTION " A collection of frame-relay specific lport objects"
    ::= {psGroups 10}

lportAtmGroup OBJECT-GROUP
    OBJECTS {lportAtmAtmType, lportAtmAtmPcqIndex,
            lportAtmAtmBurstTolerance, lportAtmAtmSustainCellRate,
            lportAtmAtmProtocolType, lportAtmAtmUniType,
            lportAtmAtmConnType, lportAtmAtmValidVpiBits,
            lportAtmAtmValidVciBits, lportAtmIlmiAdminStatus,
            lportAtmIlmiDteScreenMode, lportAtmIlmiPollPeriod,
            lportAtmIlmiLossThreshold, lportAtmIlmiValidVpiBits,
            lportAtmIlmiValidVciBits, lportAtmOamCircuitAlarms,
            lportAtmOamAlarmTimerThreshold, lportAtmCbrBwAlloc,
            lportAtmVbr1BwAlloc, lportAtmVbr2BwAlloc,
            lportAtmUbrBwAlloc, lportAtmCbrRouteMetric,
            lportAtmVbr1RouteMetric, lportAtmVbr2RouteMetric,
            lportAtmUbrRouteMetric, lportAtmCbrBwOversub,
            lportAtmVbr1BwOversub, lportAtmVbr2BwOversub,
            lportAtmUbrBwOversub, lportAtmAtmCallAdmControl,
            lportAtmUpcFunction, lportAtmCtrlUpcFunction,
            lportAtmNpcFunction, lportAtmCellHeadFormat,
            lportAtmConnectionClass, lportAtmPvcRangeVpiStart,
            lportAtmPvcRangeVpiStop, lportAtmVpiToVpciOffSet,
            lportAtmPvPVpiMin, lportAtmPvpVpiMax,
            lportAtmPvcVpiMin, lportAtmPvcVpiMax, lportAtmPvcVciMin,
            lportAtmPvcVciMax, lportAtmSvcVpiMin,
            lportAtmSvcVpiMax, lportAtmSvcVciMin, lportAtmSvcVciMax,
            lportAtmIsCbrDynamic, lportAtmIsVbrRTDynamic,
            lportAtmIsVbrNRTDynamic, lportAtmIsUbrDynamic,
            lportAtmAtmPeakCellRate, lportAtmRowStatus,
            lportAtmModifyType}
    STATUS current
    DESCRIPTION "A collection of atm specific lport objects"
    ::= {psGroups 11}

lportAtmNtmGroup OBJECT-GROUP
      OBJECTS {lportAtmNtmCt0, lportAtmNtmCt1, lportAtmNtmCt2,
               lportAtmNtmCt3, lportAtmNtmNotificationTime,
               lportAtmNtmRowStatus, lportAtmNtmModifyType}
      STATUS current
      DESCRIPTION " A collection of NTM specific, atm lport objects."
      ::= {psGroups 12}

lportAtmBillingGroup  OBJECT-GROUP
      OBJECTS {lportAtmBillingSvcAccounting, lportAtmBillingPvcParamRec,
              lportAtmBillingAddrSameAsUni, lportAtmBillingCarrierId,
              lportAtmBillingGenPtPt, lportAtmBillingGenPtMultiPt,
              lportAtmBillingGenUnsuccess, lportAtmBillingIntraAbr,
              lportAtmBillingIntraUbr, lportAtmBillingIntraVbr,
              lportAtmBillingIntraCbr, lportAtmBillingSvcSubAddr,
              lportAtmBillingRowStatus, lportAtmBillingModifyType,
              lportAtmBillingDefaultUniAddrFormat,
              lportAtmBillingDefaultUniAddrAsc,
              lportAtmBillingDefaultUniAddrHex,
              lportAtmBillingDefaultUniAddrAfi,
              lportAtmBillingDefaultUniAddrPrefix}
      STATUS current
      DESCRIPTION " A collection of Billing specific, atm lport objects."
      ::= {psGroups 13}


lportAtmSvcConfigGroup OBJECT-GROUP
      OBJECTS {lportAtmSvcConfigSigAdminStatus,
               lportAtmSvcConfigQ93bMaxRestart,
               lportAtmSvcConfigQ93bMaxStatEnq,
               lportAtmSvcConfigQ93bT303, lportAtmSvcConfigQ93bT308,
               lportAtmSvcConfigQ93bT309, lportAtmSvcConfigQ93bT310,
               lportAtmSvcConfigQ93bT313, lportAtmSvcConfigQ93bT316,
               lportAtmSvcConfigQ93bT322, lportAtmSvcConfigQ93bT398,
               lportAtmSvcConfigQ93bT399, lportAtmSvcConfigQSaalMaxCC,
               lportAtmSvcConfigQSaalMaxPD,
               lportAtmSvcConfigQSaalMaxStat,
               lportAtmSvcConfigQSaalTPoll,
               lportAtmSvcConfigQSaalTKeepalive,
               lportAtmSvcConfigQSaalTNoResponse,
               lportAtmSvcConfigQSaalTCC, lportAtmSvcConfigQSaalTIdle,
               lportAtmSvcConfigRowStatus, lportAtmSvcConfigModifyType}
      STATUS current
      DESCRIPTION "A collection of SVC Config specific, atm lport
      objects."
      ::= {psGroups 14}

lportSmdsGroup OBJECT-GROUP
     OBJECTS {lportSmdsSmdsType, lportSmdsSupportHeartBeatPoll,
              lportSmdsHeartBeatPollInterval,
              lportSmdsHeartBeatPollINaThreshold,
              lportSmdsProtocolErrorChecking, lportSmdsSmdsPduViolTcaFlag,
              lportSmdsSmdsPduViolThresh, lportSmdsSsiLportIpAddress,
```

```
            lportSmdsSsiLportIfIndex, lportSmdsPduViolThresh,
            lportSmdsRowStatus, lportSmdsModifyType}
    STATUS current
    DESCRIPTION "A collection of smds specific lport objects"
    ::= {psGroups 15}

lportSvcSecurityScreenGroup OBJECT-GROUP
    OBJECTS {lportSvcSecurityScreenActionIngressScreenMode,
            lportSvcSecurityScreenActionEgressScreenMode,
            lportSvcSecurityScreenActionDefaultIngressScreenType,
            lportSvcSecurityScreenActionDefaultEgressScreenType,
            lportSvcSecurityScreenActionRowStatus,
            lportSvcSecurityScreenActionModifyType,
            lportSvcSecurityScreenAdminStatus,
            lportSvcSecurityScreenRowStatus,
            lportSvcSecurityScreenModifyType}
    STATUS current
    DESCRIPTION "A collection of SVC security screen objects."
    ::= {psGroups 16}

switchGroup OBJECT-GROUP
    OBJECTS{switchName, switchType, switchLocation, switchPhoneNumber,
           switchContact, switchRerouteDelay,
           switchRerouteCount, switchTelnetSessionState,
           switchConsoleIdleTimeout, switchSendHostRoutes,
           switchEthernetIpMask, switchEthernetIpAddress,
           switchRipState, switchLoadBalancingAlgorithm,
           switchRowStatus, switchModifyType, switchSwRev}
    STATUS current
    DESCRIPTION "A collection of switch related object."
    ::= {psGroups 17}

switchAtmBillingGroup OBJECT-GROUP
    OBJECTS {switchAtmBillingServerPrimaryIp,
            switchAtmBillingServerSecondaryIp,
            switchAtmBillingServerControl,
            switchAtmBillingAcctControl, switchAtmBillingAbrRecording,
            switchAtmBillingCbrRecording,
            switchAtmBillingUbrRecording, switchAtmBillingVbrRecording,
            switchAtmBillingCbrCellCounting,
            switchAtmBillingOamCellCounting,
            switchAtmBillingRecordingUpdtInterval,
            switchAtmBillingPvcRecordingPeriod,
            switchAtmBillingRowStatus, switchAtmBillingModifyType}
    STATUS current
    DESCRIPTION " A collection of switch billing objects in the case of
    CBC-500 switch."
    ::= { psGroups 18 }

networkCACGroup OBJECT-GROUP
    OBJECTS{ networkCACType, networkCACVbrRealTime,
            networkCACVbrNonRealTime, networkCACCbrCdv,
            networkCACCbrAlpha, networkCACVbrRTCdv,
            networkCACVbrRTAlpha, networkCACPortScaleFactorOC3,
            networkCACPortScaleFactorDS3, networkCACPortScaleFactorE3,
            networkCACPortScaleFactorT1,
            networkCACPortScaleFactorOC12, networkCACUpperLimit1,
            networkCACScaleFactor1, networkCACMaxMbs1,
            networkCACUpperLimit2, networkCACScaleFactor2,
            networkCACMaxMbs2, networkCACUpperLimit3,
            networkCACScaleFactor3, networkCACMaxMbs3,
            networkCACUpperLimit4, networkCACScaleFactor4,
            networkCACMaxMbs4, networkCACUpperLimit5,
            networkCACScaleFactor5, networkCACMaxMbs5,
            networkCACUpperLimit6, networkCACScaleFactor6,
            networkCACMaxMbs6, networkCACUpperLimit7,
            networkCACScaleFactor7, networkCACMaxMbs7,
            networkCACUpperLimit8, networkCACScaleFactor8,
            networkCACMaxMbs8, networkCACUpperLimit9,
            networkCACScaleFactor9, networkCACMaxMbs9,
            networkCACUpperLimit10, networkCACMaxMbs10,
            networkCACRowStatus, networkCACModifyType,
            networkCACScaleFactor10}
    STATUS current
    DESCRIPTION "A collection of netwark CAC objects."
    ::= { psGroups 19 }

networkCUGMemberRuleGroup OBJECT-GROUP
    OBJECTS {networkCUGMemberRuleName, networkCUGMemberRuleValue,
            networkCUGMemberRuleMemberType,
            networkCUGMemberRuleIncomingAccess,
            networkCUGMemberRuleOutgoingAccess,
            networkCUGMemberRuleRowStatus,
            networkCUGMemberRuleModifyType,
            networkCUGMemberIncomingCallBar,
            networkCUGMemberOutgoingCallBar,
            networkCUGMemberRowStatus, networkCUGMemberModifyType,
            networkCUGRowStatus, networkCUGModifyType}
    STATUS current
    DESCRIPTION "A collection of close user group member (CUG) objects."
    ::= { psGroups 20 }

networkSvcSecurirtScreenGroup OBJECT-GROUP
    OBJECTS {networkSvcSecurityScreenId,
            networkSvcSecurityScreenCallDirection,
            networkSvcSecurityScreenScreenType,
            networkSvcSecurityScreenCallingAddressType,
            networkSvcSecurityScreenCallingAddressAddress,
            networkSvcSecurityScreenCallingSubAddressType,
            networkSvcSecurityScreenCallingSubAddressAddress,
            networkSvcSecurityScreenCalledAddressType,
            networkSvcSecurityScreenCalledAddressAddress,
            networkSvcSecurityScreenCalledSubAddressType,
            networkSvcSecurityScreenCalledSubAddressAddress,
            networkSvcSecurityScreenRowStatus,
            networkSvcSecurityScreenModifyType}
    STATUS current
    DESCRIPTION " A collection of SVC security screen objects."
```

```
     ::= { psGroups 21 }

cardGroup OBJECT-GROUP
     OBJECTS {cardDefinedType, cardUioDefinedXface, cardE1DefinedXface,
              cardDsx1DefinedXface, cardRedundSlotId,
              cardAdminStatus, cardCapability, cardExtClockSource,
              cardAtmOc3Interface, cardRowStatus, cardModifyType,
              cardAtmFcp, cardCcrmProtocolId, cardBcmProtocolId,
              cardRmXmitInterval, cardIdleVcFactor,
              cardMultiDiscardThresh, cardIcrConst, cardMngVBRnrtTraffic,
              cardStatsCapPeakClt, cardStatsCapTotalClt,
              cardStatsOperPeakClt, cardStatsOperTotalClt,
              cardStatsCltPeriod, cardPrimSysClockPort,
              cardSecSysClockPort, cardTpzOc3DefinedXface,
              cardOc12DefinedXface}
     STATUS current
     DESCRIPTION " A collection of card objects."
     ::= { psGroups 22 }

pportGroup OBJECT-GROUP
     OBJECTS {pportDefinedType, pportXmitClockSource, pportBandwidth,
              pportAdminStatus, pportZeroEncoding, pportExtClockBackup,
              pportConnType, pportLineType, pportDs1LineLength,
              pportDsx1LineLength, pportDS1LineBuildOut,
              pportLoopbackStatus, pportAllocatedChannelCount,
              pportAllocatedChannels, pportChannelsInUse,
              pportDs3LineBuildOut, pportChDs3LineBuildOut,
              pportCellPayloadScramble, pportAtmCbitParity,
              pportAtmMaxBufferSize, pportDs3PlcpOptions,
              pportAtmReceivedFeacStatus, pportAtmEfciMarking,
              pportAtmPeakCellRates0, pportAtmPeakCellRates1,
              pportAtmPeakCellRates2, pportAtmPeakCellRates3,
              pportAtmPeakCellRates4, pportAtmPeakCellRates5,
              pportAtmPeakCellRates6, pportAtmPeakCellRates7,
              pportOpticalXmit, pportAtmBIPErrorThreshold,
              pportAtmVPILength, pportAtmCircuitType,
              pportApplicationMode, pportHecErrorCorrection,
              pportRowStatus, pportModifyType, pportXmitMode,
              pportAlarmFailure, pportAlarmClear,
              pportChDs3ChannelsInUse, pportT1LineCode, pportE1LineCode,
              pportInBandLineLoopBackCode, pportT1LineBuildOut,
              pportT1CircuitType, pportMIBInterfaceNumber,
              pportRedundancy, pportAtmTSPacingMode,
              pportEffectiveBandwidth, pportMinNumT1s, pportMinNumE1s,
              pportIdleCellType, pportDS3FeacLoopback,
              pportT1FeacLoopback}
      STATUS current
      DESCRIPTION " A collection of pport objects."
      ::= { psGroups 23 }

pportTrafficShaperGroup OBJECT-GROUP
      OBJECTS {pportTsCsPriority, pportTsCsSustainableCellRate,
               pportTsCsPeakCellRate, pportTsCsMaxBurstSize,
               pportTsIwuPriority, pportTsIwuSustainableCellRate,
               pportTsIwuPeakCellRate, pportTsIwuMaxBurstSize,
               pportTrafficShaperRowStatus, pportTrafficShaperModifyType}
      STATUS current
      DESCRIPTION "A collection of pport traffic shaper object."
      ::= { psGroups 24 }

pportApsGroup OBJECT-GROUP
     OBJECTS {pportApsAdminDir, pportApsLineType, pportApsRevertiveMode,
              pportApsPairedSlotId, pportApsPairedPportId,
              pportApsSfBerThresh, pportApsSdBerThresh,
              pportApsWtrPeriod, pportApsXCommand,
              pportApsRowStatus, pportApsModifyType}
     STATUS current
     DESCRIPTION "A collction of pport APS objects."
     ::= { psGroups 25 }

interworkingCircuitEndpointGroup OBJECT-GROUP
     OBJECTS {interworkingCircuitEndpointCircuitNumber,
              interworkingCircuitEndpointTrafficDescrParam1,
              interworkingCircuitEndpointTrafficDescrParam2,
              interworkingCircuitEndpointTrafficDescrParam3,
              interworkingCircuitEndpointTrafficDescrParam4,
              interworkingCircuitEndpointTrafficDescrParam5,
              interworkingCircuitEndpointTrafficDescrType,
              interworkingCircuitEndpointScr,
              interworkingCircuitEndpointMbs,
              interworkingCircuitEndpointPcr,
              interworkingCircuitEndpointQosClass,
              interworkingCircuitEndpointFcpDiscard,
              interworkingCircuitEndpointGracefulDiscard,
              interworkingCircuitEndpointRedFramePercent,
              interworkingCircuitEndpointShaperId,
              interworkingCircuitEndpointRateEnfScheme,
              interworkingCircuitEndpointCircuitPriority,
              interworkingCircuitEndpointRowStatus,
              interworkingCircuitEndpointModifyType,
              interworkingCircuitEndpointDeltaBc,
              interworkingCircuitEndpointDeltaBe,
              interworkingCircuitEndpointZeroCIREnabled,
              interworkingCircuitEndpointSlotId,
              interworkingCircuitEndpointPPortId}
    STATUS current
    DESCRIPTION " A collection of interworking circuit endpoint objects."
    ::= { psGroups 26 }

atmCircuitEndpointGroup OBJECT-GROUP
     OBJECTS {atmCircuitEndpointCircuitNumber,
              atmCircuitEndpointTrafficDescrParam1,
              atmCircuitEndpointTrafficDescrParam2,
              atmCircuitEndpointTrafficDescrParam3,
              atmCircuitEndpointTrafficDescrParam4,
              atmCircuitEndpointTrafficDescrParam5,
              atmCircuitEndpointTrafficDescrType,
              atmCircuitEndpointQosClass,
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            atmCircuitEndpointFcpDiscard,
            atmCircuitEndpointGracefulDiscard,
            atmCircuitEndpointCircuitPriority,
            atmCircuitEndpointRateEnfScheme,
            atmCircuitEndpointModifyType, atmCircuitEndpointRowStatus,
            atmCircuitEndpointDeltaBc, atmCircuitEndpointDeltaBe,
            atmCircuitEndpointRedFramePercent, atmCircuitEndpointSlotId,
            atmCircuitEndpointPPortId }
    STATUS current
    DESCRIPTION "A collection of atm circuit endpoint objects."
    ::= { psGroups 27 }

frCircuitEndpointGroup OBJECT-GROUP
    OBJECTS {frCircuitEndpointCircuitNumber,
            frCircuitEndpointCir, frCircuitEndpointBc,
            frCircuitEndpointDeltaBc, frCircuitEndpointBe,
            frCircuitEndpointDeltaBe,
            frCircuitEndpointGracefulDiscard,
            frCircuitEndpointRateEnfScheme,
            frCircuitEndpointRedFramePercent,
            frCircuitEndpointZeroCIREnabled,
            frCircuitEndpointCircuitPriority,
            frCircuitEndpointQosClass, frCircuitEndpointRowStatus,
            frCircuitEndpointModifyType, frCircuitEndpointSlotId,
            frCircuitEndpointPPortId}
    STATUS current
    DESCRIPTION "A collection of frame-relay endpoint objects."
    ::= { psGroups 28 }

circuitCrossConnectGroup OBJECT-GROUP
    OBJECTS {circuitCrossConnectSwitchId1, circuitCrossConnectIfIndex1,
            circuitCrossConnectDLCI1, circuitCrossConnectVPI1,
            circuitCrossConnectVCI1, circuitCrossConnectSwitchId2,
            circuitCrossConnectIfIndex2, circuitCrossConnectDLCI2,
            circuitCrossConnectVPI2, circuitCrossConnectVCI2,
            circuitCrossConnectCircuitName,
            circuitCrossConnectSegmentSize,
            circuitCrossConnectTranslationType,
            circuitCrossConnectAdminStatus,
            circuitCrossConnectBandwidthPriority,
            circuitCrossConnectBumpingPriority,
            circuitCrossConnectUpcFunction,
            circuitCrossConnectCDVTolerance,
            circuitCrossConnectOAMAlarmsEnabled,
            circuitCrossConnectCellLossPriority,
            circuitCrossConnectDiscardEligibility,
            circuitCrossConnectVpnName,
            circuitCrossConnectCustomerName,
            circuitCrossConnectPrivateNetOverflow,
            circuitCrossConnectRerouteBalancing,
            circuitCrossConnectCircuitType,
            circuitCrossConnectRowStatus,
            circuitCrossConnectModifyType, circuitCrossConnectEndpoint1,
            circuitCrossConnectEndpoint2,
            circuitCrossConnectNetworkId1,
            circuitCrossConnectServiceName1,
            circuitCrossConnectNetworkId2,
            circuitCrossConnectServiceName2}
    STATUS current
    DESCRIPTION " A collection objects which apply to atm, fr and
                interworking circuits."
    ::= { psGroups 29 }

circuitRootGroup OBJECT-GROUP
    OBJECTS {circuitPmpRootSlotId, circuitPmpRootPportId,
            circuitPmpRootLportId, circuitPmpRootRootName,
            circuitPmpRootTrafficDescrParam1,
            circuitPmpRootTrafficDescrParam2,
            circuitPmpRootTrafficDescrParam3,
            circuitPmpRootQosClass, circuitPmpRootRerouteBalancing,
            circuitPmpRootPriority, circuitPmpRootCdvTolerance,
            circuitPmpRootCircuitType, circuitPmpRootRowStatus,
            circuitPmpRootModifyType, circuitPmpRootAcctChrgPartyId,
            circuitPmpRootAcctUsageMeasure,
            circuitPmpRootAcctPvcControl,
            circuitPmpRootPrivateNetOverflow,
            circuitPmpRootTrafficDescrType, circuitPmpRootNdcEnable,
            circuitPmpRootTotalPVCsEnabledOnCard,
            circuitPmpRootLimitOfPVCsEnabledOnCard,
            circuitPmpRootClp0CellThresh1,
            circuitPmpRootClp1CellThresh1}
    STATUS current
    DESCRIPTION "A collection of Circuit root objects."
    ::= { psGroups 30 }

circuitLeafGroup OBJECT-GROUP
    OBJECTS {circuitPmpLeafAdminStatus, circuitPmpLeafAcctChrgPartyId,
            circuitPmpLeafAcctUsageMeasure,
            circuitPmpLeafAcctPvcControl, circuitPmpLeafRowStatus,
            circuitPmpLeafModifyType }
    STATUS current
    DESCRIPTION " A collection of Circuit leaf objects."
    ::= { psGroups 31 }

cbxAtmCircuitBillingGroup OBJECT-GROUP
    OBJECTS {atmCircuitBillingCircuitName,
            atmCircuitBillingAcctChrgPartyId1,
            atmCircuitBillingAcctUsageMeasure1,
            atmCircuitBillingAcctPvcControl1,
            atmCircuitBillingAcctChrgPartyId2,
            atmCircuitBillingAcctUsageMeasure2,
            atmCircuitBillingAcctPvcControl2,
            atmCircuitBillingRowStatus, atmCircuitBillingModifyType}
    STATUS current
    DESCRIPTION "A collection of circuit billing objects on the CBX-500"
    ::= { psGroups 32 }

cbxAtmCircuitNdcGroup OBJECT-GROUP
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     OBJECTS {atmCircuitNdcCircuitName, atmCircuitNdcEnable1,
              atmCircuitNdcTotalPVCsEnabledOnCard1,
              atmCircuitNdcLimitOfPVCsEnabledOnCard1,
              atmCircuitNdcClp0CellThresh1,
              atmCircuitNdcClp1CellThresh1, atmCircuitNdcEnable2,
              atmCircuitNdcTotalPVCsEnabledOnCard2,
              atmCircuitNdcLimitOfPVCsEnabledOnCard2,
              atmCircuitNdcClp0CellThresh2,
              atmCircuitNdcClp1CellThresh2, atmCircuitNdcRowStatus,
              atmCircuitNdcModifyType }
     STATUS current
     DESCRIPTION " A collection of circuit NDC objects on the CBX-500. "
     ::= { psGroups 33 }

circuitSvcGroup OBJECT-GROUP
     OBJECTS {circuitSpvcSlotId, circuitSpvcPportId, circuitSpvcLportId,
              circuitSpvcName, circuitSpvcTerminatingEndpointAddress,
              circuitSpvcAdminStatus, circuitSpvcCircuitType,
              circuitSpvcTargetSelectType, circuitSpvcRetryInterval,
              circuitSpvcRetryLimit, circuitSpvcForwardTrafficDescriptor,
              circuitSpvcReverseTrafficDescriptor,
              circuitSpvcRowStatus, circuitSpvcModifyType}
     STATUS current
     DESCRIPTION "A Collection of Soft PVC circuit objects."
     ::= { psGroups 34 }

circuitSpvcPmpRootGroup OBJECT-GROUP
     OBJECTS {circuitSpvcPmpRootSlotId, circuitSpvcPmpRootPportId,
              circuitSpvcPmpRootLportId,
              circuitSpvcPmpRootName,
              circuitSpvcPmpRootTerminatingEndpointAddress,
              circuitSpvcPmpRootAdminStatus,
              circuitSpvcPmpRootCircuitType,
              circuitSpvcPmpRootTargetSelectType,
              circuitSpvcPmpRootRetryInterval,
              circuitSpvcPmpRootRetryLimit,
              circuitSpvcPmpRootForwardTrafficDescriptor,
              circuitSpvcPmpRootReverseTrafficDescriptor,
              circuitSpvcPmpRootRowStatus,
              circuitSpvcPmpRootModifyType,
              circuitSpvcPmpRootNextAvailableLeafNo }
     STATUS current
     DESCRIPTION " A collection of objects associated with Soft PVC Point
                   to MultiPoint circuit Root entries."
     ::= { psGroups 35 }

circuitSpvcPmpLeafGroup OBJECT-GROUP
     OBJECTS {circuitSpvcPmpLeafSlotId, circuitSpvcPmpLeafPportId,
              circuitSpvcPmpLeafLportId,
              circuitSpvcPmpLeafTerminatingEndpointAddress,
              circuitSpvcPmpLeafAdminStatus,
              circuitSpvcPmpLeafTargetSelectType,
              circuitSpvcPmpLeafRetryInterval,
              circuitSpvcPmpLeafRetryLimit,
              circuitSpvcPmpLeafRowStatus, circuitSpvcPmpLeafModifyType }
     STATUS current
     DESCRIPTION " A collection of Soft PVC Point to MultiPoint circuit
                   Leaf entry objects."
     ::= { psGroups 36 }

pmThresholdGroup OBJECT-GROUP
     OBJECTS { ds1pmThreshCrossingEnable, ds1pmThreshESLCurrent,
              ds1pmThreshESLDay, ds1pmThreshCVPCurrent,
              ds1pmThreshCVPDay, ds1pmThreshESPCurrent,
              ds1pmThreshSESPCurrent, ds1pmThreshSESPDay,
              ds1pmThreshSASPCurrent, ds1pmThreshSASPDay,
              ds1pmThreshCSSPCurrent, ds1pmThreshCSSPDay,
              ds1pmThreshUASPCurrent, ds1pmThreshUASPDay,
              ds1pmThreshRowStatus, ds1pmThreshModifyType,
              ds3pmThreshCrossingEnable, ds3pmThreshCVLCurrent,
              ds3pmThreshCVLDay, ds3pmThreshESLCurrent,
              ds3pmThreshESLDay, ds3pmThreshSESLCurrent,
              ds3pmThreshSESLDay, ds3pmThreshCVPCurrent,
              ds3pmThreshCVPDay, ds3pmThreshESPCurrent,
              ds3pmThreshESPDay, ds3pmThreshSESPCurrent,
              ds3pmThreshSESPDay, ds3pmThreshSASPCurrent,
              ds3pmThreshSASPDay, ds3pmThreshUASPCurrent,
              ds3pmThreshUASPDay, ds3pmThreshCVCPPCurrent,
              ds3pmThreshCVCPPDay, ds3pmThreshESCPPCurrent,
              ds3pmThreshESCPPDay, ds3pmThreshSESCPPCurrent,
              ds3pmThreshSESCPPDay, ds3pmThreshSASCPPCurrent,
              ds3pmThreshSASCPPDay, ds3pmThreshUASCPPCurrent,
              ds3pmThreshUASCPPDay, ds3pmThreshESXCurrent,
              ds3pmThreshESXDay, ds3pmThreshRowStatus,
              ds3pmThreshModifyType, sonetpmThresholdCrossingEnable,
              sonetpmSESThresholdSet, sonetpmThreshCVSCurrent,
              sonetpmThreshCVSDay, sonetpmThreshESSCurrent,
              sonetpmThreshESSDay, sonetpmThreshSESSCurrent,
              sonetpmThreshSESSDay, sonetpmThreshCVLCurrent,
              sonetpmThreshCVLDay, sonetpmThreshESLCurrent,
              sonetpmThreshESLDay, sonetpmThreshSESLCurrent,
              sonetpmThreshSESLDay, sonetpmThreshUASLCurrent,
              sonetpmThreshUASLDay, sonetpmThreshCVPCurrent,
              sonetpmThreshCVPDay,  sonetpmThreshESPCurrent,
              sonetpmThreshESPDay, sonetpmThreshSESPCurrent,
              sonetpmThreshSESPDay, sonetpmThreshUASPCurrent,
              sonetpmThreshUASPDay, sonetpmThreshRowStatus,
              sonetpmThreshModifyType, ds1pmThreshESPDay }
     STATUS current
     DESCRIPTION " A collection performance threshold objects."
     ::= { psGroups 37 }


svcAddressGroup OBJECT-GROUP
    OBJECTS { svcNodePrefixPrefix, svcNodePrefixType,
              svcNodePrefixNumBits,
              svcNodePrefixSourceAddrValidation,
              svcNodePrefixRouteDetermination,
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            svcNodePrefixAddrRegistration,
            svcNodePrefixRowStatus, svcNodePrefixModifyType,
            svcPortPrefixPrefix,svcPortPrefixType,
            svcPortPrefixNumBits, svcPortPrefixAdminCost,
            svcPortPrefixLocalGatewayAddress,
            svcPortPrefixRemoteGatewayAddress,
            svcPortPrefixSourceAddrValidation,
            svcPortPrefixRouteDetermination,
            svcPortPrefixAddrRegistration, svcPortPrefixRowStatus,
            svcPortPrefixModifyType,  svcPortPrefixCugTermination,
            svcAddrAddress, svcAddrType, svcAddrNumBits,
            svcAddrAdminCost, svcAddrSourceAddrValidation,
            svcAddrRouteDetermination, svcAddrPvpTermination,
            svcAddrPvcTermination, svcAddrPvcConnId, svcAddrRowStatus,
            svcAddrModifyType, svcAddrCugTermination, svcAddrVpi,
            svcAddrVci, svcAtmDteUserPartUserPart,
            svcAtmDteUserPartType,svcAtmDteUserPartNumBits,
            svcAtmDteUserPartRowStatus, svcAtmDteUserPartModifyType}
    STATUS current
    DESCRIPTION " The collection of objects associated with SVC
                  addresses."
    ::= { psGroups 38 }

svcConfigGroup OBJECT-GROUP
    OBJECTS { svcConfigCgPtyInsertionMode,
            svcConfigCgPtyInsertionAddress, svcConfigScrModeNodePrefix,
            svcConfigCgPtyPresentationMode,
            svcConfigEgressAddrXlateMode, svcConfigIngressAddrXlateMode,
            svcConfigHoldDownTimer,
            svcConfigLoadBalanceEligibilityDuration, svcConfigRowStatus,
            svcConfigModifyType, svcConfigScrModePrefix,
            svcConfigScrModeAddress, svcConfigSvcCdvTolerance,
            svcConfigSvcFailureTrapThresh, svcConfigSvcCugState,
            svcConfigSvcFrameDiscard }
    STATUS current
    DESCRIPTION " The collection of SVC configuration."
     ::= { psGroups 39 }

trafficDescriptorGroup OBJECT-GROUP
    OBJECTS {trafficDescriptorName, trafficDescriptorType,
             trafficDescriptorParam1, trafficDescriptorParam2,
             trafficDescriptorParam3, trafficDescriptorQoSClass,
             trafficDescriptorRowStatus, trafficDescriptorModifyType }
    STATUS current
    DESCRIPTION "The collection of ATM traffic descriptor type objects."
    ::= { psGroups 40 }

pportPFdlGroup OBJECT-GROUP
    OBJECTS {pportPFdlControl, pportPFdlPrmTransmission,
             pportPFdlPathIdTransmission, pportPFdlEquipmentCode,
             pportPFdlLocationCode, pportPFdlFrameCode,
             pportPFdlUnitCode, pportPFdlFacilityCode,
             pportPFdlRowStatus,pportPFdlModifyType}
    STATUS current
    DESCRIPTION "The collection pport PFDL objects."
    ::= { psGroups 41 }

lportAtmFcpGroup OBJECT-GROUP
    OBJECTS { lportAtmFcpRmCellGen, lportAtmFcpRmCellTerm,
              lportAtmFcpEfciBitCheck, lportAtmFcpTotalBuffer,
              lportAtmFcpClp01Thresh, lportAtmFcpDiscardThresh,
              lportAtmFcpEfciThresh, lportAtmFcpRowStatus,
              lportAtmFcpModifyType }
    STATUS current
    DESCRIPTION " The collection of atm lport FCP objects."
    ::= { psGroups 42 }

circuitServiceNameFrEndpointGroup OBJECT-GROUP
   OBJECTS {
    frCircuitServiceNameEndpointCircuitNumber,
    frCircuitServiceNameEndpointCir,
    frCircuitServiceNameEndpointBc,
    frCircuitServiceNameEndpointDeltaBc,
    frCircuitServiceNameEndpointBe,
    frCircuitServiceNameEndpointDeltaBe,
    frCircuitServiceNameEndpointGracefulDiscard,
    frCircuitServiceNameEndpointRateEnfScheme,
    frCircuitServiceNameEndpointRedFramePercent,
    frCircuitServiceNameEndpointZeroCIREnabled,
    frCircuitServiceNameEndpointCircuitPriority,
    frCircuitServiceNameEndpointQosClass,
    frCircuitServiceNameEndpointRowStatus,
    frCircuitServiceNameEndpointModifyType,
    frCircuitServiceNameEndpointSlotId,
    frCircuitServiceNameEndpointPPortId
   }
   STATUS current
   DESCRIPTION "The collection of Circuit ServiceName Fr Endpoint objects"
   ::= { psGroups 43 }

circuitServiceNameAtmEndpointGroup OBJECT-GROUP
   OBJECTS {
    atmCircuitServiceNameEndpointCircuitNumber ,
    atmCircuitServiceNameEndpointTrafficDescrParam1 ,
    atmCircuitServiceNameEndpointTrafficDescrParam2 ,
    atmCircuitServiceNameEndpointTrafficDescrParam3 ,
    atmCircuitServiceNameEndpointTrafficDescrParam4 ,
    atmCircuitServiceNameEndpointTrafficDescrParam5 ,
    atmCircuitServiceNameEndpointTrafficDescrType ,
    atmCircuitServiceNameEndpointQosClass ,
    atmCircuitServiceNameEndpointFcpDiscard ,
    atmCircuitServiceNameEndpointGracefulDiscard ,
    atmCircuitServiceNameEndpointCircuitPriority ,
    atmCircuitServiceNameEndpointRateEnfScheme ,
    atmCircuitServiceNameEndpointModifyType ,
    atmCircuitServiceNameEndpointRowStatus ,
    atmCircuitServiceNameEndpointDeltaBc ,
    atmCircuitServiceNameEndpointDeltaBe ,
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    atmCircuitServiceNameEndpointRedFramePercent ,
    atmCircuitServiceNameEndpointSlotId ,
    atmCircuitServiceNameEndpointPPortId
   }
   STATUS current
   DESCRIPTION "The collection of Circuit ServiceName Atm Endpoint
               objects"
   ::= { psGroups 44 }

circuitServiceNameInteworkingEndpointGroup OBJECT-GROUP
   OBJECTS {
    interworkingCircuitServiceNameEndpointCircuitNumber ,
    CircuitServiceNameEndpointTrafficDescrParam1 ,
    CircuitServiceNameEndpointTrafficDescrParam2 ,
    CircuitServiceNameEndpointTrafficDescrParam3 ,
    CircuitServiceNameEndpointTrafficDescrParam4 ,
    CircuitServiceNameEndpointTrafficDescrParam5 ,
    CircuitServiceNameEndpointTrafficDescrType ,
    CircuitServiceNameEndpointScr ,
    CircuitServiceNameEndpointMbs ,
    CircuitServiceNameEndpointPcr ,
    CircuitServiceNameEndpointQosClass ,
    CircuitServiceNameEndpointFcpDiscard ,
    CircuitServiceNameEndpointGracefulDiscard ,
    CircuitServiceNameEndpointRedFramePercent ,
    CircuitServiceNameEndpointShaperId ,
    CircuitServiceNameEndpointRateEnfScheme ,
    CircuitServiceNameEndpointCircuitPriority ,
    CircuitServiceNameEndpointRowStatus ,
    CircuitServiceNameEndpointModifyType ,
    CircuitServiceNameEndpointDeltaBc ,
    CircuitServiceNameEndpointDeltaBe ,
    CircuitServiceNameEndpointZeroCIREnabled ,
    CircuitServiceNameEndpointSlotId ,
    CircuitServiceNameEndpointPPortId
    }
   STATUS current
   DESCRIPTION "The collection of Circuit ServiceName Interworking
               Endpoint objects "
   ::= { psGroups 45 }

END
```