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Definitions of Textual Conventions and OBJECT-IDENTITIES for ATM Management

Status of this Memo

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Table of Contents

Abstract

This memo describes Textual Conventions and OBJECT-IDENTITIES used for managing ATM-based interfaces, devices, networks and services.

1. Introduction

This memo describes Textual Conventions and OBJECT-IDENTITIES used for managing ATM-based interfaces, devices, networks and services.

When designing a MIB module, it is often useful to define new types similar to those defined in the SMI. In comparison to a type defined in the SMI, each of these new types has a different name, a similar syntax, but a more precise semantics. These newly defined types are termed textual conventions, and are used for the convenience of humans reading the MIB module. This is done through Textual Conventions as defined in RFC1903 [1]. It is the purpose of this document to define the set of textual conventions available to ATM MIB modules.

When designing MIB modules, it is also often useful to register further properties with object identifier assignments so that they can be further used by other MIB modules. This is done through the OBJECT-IDENTITY macro defined in RFC1902 [2]. This document defines OBJECT-IDENTITIES available to ATM MIB modules.

Note that for organizational purposes OBJECT IDENTITIES previously defined in RFC1695 have been moved to this specification and no longer appear in the revision of RFC1695 [3]. However, the original OBJECT IDENTIFIERs have been preserved.

For an introduction to the concepts of ATM connections, see [3].

2. Definitions

```
ATM-TC-MIB DEFINITIONS ::= BEGIN

IMPORTS
   MODULE-IDENTITY, OBJECT-IDENTITY,
   TimeTicks, mib-2
       FROM SNMPv2-SMI
   TEXTUAL-CONVENTION
       FROM SNMPv2-TC;


atmTCMIB MODULE-IDENTITY
     LAST-UPDATED "9810190200Z"
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        DESCRIPTION
         "This MIB Module provides Textual Conventions
         and OBJECT-IDENTITY Objects to be used by
         ATM systems."
        ::= { mib-2 37 3 } -- atmMIB 3 (see [3])

    -- The Textual Conventions defined below are organized
    -- alphabetically


    AtmAddr ::= TEXTUAL-CONVENTION
            DISPLAY-HINT "1x"
            STATUS  current
            DESCRIPTION
                "An ATM address. The semantics are implied by
                the length. The address types are: - no
                address (0 octets) - E.164 (8 octets) - NSAP
                (20 octets) In addition, when subaddresses
                are used the AtmAddr may represent the
                concatenation of address and subaddress. The
                associated address types are: - E.164, E.164
                (16 octets) - E.164, NSAP (28 octets) - NSAP,
                NSAP (40 octets) Address lengths other than
                defined in this definition imply address
                types defined elsewhere.  Note: The E.164
                address is encoded in BCD format."
            SYNTAX   OCTET STRING (SIZE(0..40))


    AtmConnCastType ::= TEXTUAL-CONVENTION
            STATUS  current
            DESCRIPTION
              "The type of topology of a connection (point-
```

```
            to-point, point-to-multipoint). In the case
            of point-to-multipoint, the orientation of
            this VPL or VCL in the connection.
            On a host:
            - p2mpRoot indicates that the host
              is the root of the p2mp connection.
            - p2mpLeaf indicates that the host
              is a leaf of the p2mp connection.
            On a switch interface:
            - p2mpRoot indicates that cells received
              by the switching fabric from the interface
              are from the root of the p2mp connection.
            - p2mpLeaf indicates that cells transmitted
              to the interface from the switching fabric
              are to the leaf of the p2mp connection."
          SYNTAX   INTEGER {
             p2p(1),
             p2mpRoot(2),
             p2mpLeaf(3)
             }

    AtmConnKind ::= TEXTUAL-CONVENTION
            STATUS  current
            DESCRIPTION
                "The type of call control used for an ATM
                connection at a particular interface. The use
                is as follows:
                   pvc(1)
                      Virtual link of a PVC. Should not be
                      used for an PVC/SVC (i.e., Soft PVC)
                      crossconnect.
                   svcIncoming(2)
                      Virtual link established after a
                      received signaling request to setup
                      an SVC.
                   svcOutgoing(3)
                      Virtual link established after a
                      transmitted or forwarded signaling
                      request to setup an SVC.
                   spvcInitiator(4)
                      Virtual link at the PVC side of an
                      SVC/PVC crossconnect, where the
                      switch is the initiator of the Soft PVC
                      setup.
                   spvcTarget(5)
                      Virtual link at the PVC side of an
                      SVC/PVC crossconnect, where the
                      switch is the target of the Soft PVC
```

```
                      setup.

                  For PVCs, a pvc virtual link is always cross-
                  connected to a pvc virtual link.

                  For SVCs, an svcIncoming virtual link is always cross-
                  connected to an svcOutgoing virtual link.

For Soft PVCs, an spvcInitiator is either cross-connected to
an svcOutgoing or an spvcTarget, and an spvcTarget is either
cross-connected to an svcIncoming or an spvcInitiator."
        SYNTAX   INTEGER {
           pvc(1),
           svcIncoming(2),
           svcOutgoing(3),
           spvcInitiator(4),
           spvcTarget(5)
           }

    AtmIlmiNetworkPrefix ::= TEXTUAL-CONVENTION
        STATUS   current
        DESCRIPTION
            "A network prefix used for ILMI address
            registration.  In the case of ATM endsystem
            addresses (AESAs), the network prefix is the first
            13 octets of the address which includes the AFI,
            IDI, and HO-DSP fields.  In the case of native
            E.164 addresses, the network prefix is the entire
            E.164 address encoded in 8 octets, as if it were
            an E.164 IDP in an ATM endsystem address
            structure."
        REFERENCE
            "ATM Forum, Integrated Local Management Interface
               (ILMI) Specification, Version 4.0,
               af-ilmi-0065.000, September 1996, Section 9
             ATM Forum, ATM User-Network Interface Signalling
               Specification, Version 4.0 (UNI 4.0),
               af-sig-0061.000, June 1996, Section 3"
        SYNTAX   OCTET STRING (SIZE(8|13))

AtmInterfaceType ::= TEXTUAL-CONVENTION
        STATUS       current
        DESCRIPTION
            "The connection setup procedures used for the
            identified interface.

            Other: Connection setup procedures other than
               those listed below.
```

Auto-configuration:
Indicates that the connection setup procedures are to be determined dynamically, or that determination has not yet been completed. One such mechanism is via ATM Forum ILMI auto-configuration procedures.

ITU-T DSS2:
- ITU-T Recommendation Q.2931, Broadband Integrated Service Digital Network (B-ISDN) Digital Subscriber Signalling System No.2 (DSS2) User-Network Interface (UNI) Layer 3 Specification for Basic Call/Connection Control (September 1994)
- ITU-T Draft Recommendation Q.2961, B-ISDN DSS 2 Support of Additional Traffic Parameters (May 1995)

- ITU-T Draft Recommendation Q.2971, B-ISDN DSS 2 User Network Interface Layer 3 Specification for Point-to-multipoint Call/connection Control (May 1995)

ATM Forum UNI 3.0:
ATM Forum, ATM User-Network Interface, Version 3.0 (UNI 3.0) Specification, (1994).

ATM Forum UNI 3.1:
ATM Forum, ATM User-Network Interface, Version 3.1 (UNI 3.1) Specification, (November 1994).

ATM Forum UNI Signalling 4.0:
ATM Forum, ATM User-Network Interface (UNI) Signalling Specification Version 4.0, af-sig-0061.000 (June 1996).

ATM Forum IISP (based on UNI 3.0 or UNI 3.1) :
Interim Inter-switch Signaling Protocol (IISP) Specification, Version 1.0, af-pnni-0026.000, (December 1994).

ATM Forum PNNI 1.0 :
ATM Forum, Private Network-Network Interface Specification, Version 1.0, af-pnni-0055.000, (March 1996).

```
            ATM Forum B-ICI:
               ATM Forum, B-ICI Specification, Version 2.0,
               af-bici-0013.002, (November 1995).

            ATM Forum UNI PVC Only:
               An ATM Forum compliant UNI with the
               signalling disabled.
            ATM Forum NNI PVC Only:
               An ATM Forum compliant NNI with the
               signalling disabled."
        SYNTAX  INTEGER  {
                  other(1),
                  autoConfig(2),
                  ituDss2(3),
                  atmfUni3Dot0(4),
                  atmfUni3Dot1(5),
                  atmfUni4Dot0(6),
                  atmfIispUni3Dot0(7),
                  atmfIispUni3Dot1(8),
                  atmfIispUni4Dot0(9),
        atmfPnni1Dot0(10),
        atmfBici2Dot0(11),
        atmfUniPvcOnly(12),
        atmfNniPvcOnly(13)  }

AtmServiceCategory ::= TEXTUAL-CONVENTION
        STATUS  current
        DESCRIPTION
            "The service category for a connection."
        REFERENCE
            "ATM Forum Traffic Management Specification,
            Version 4.0, af-tm-0056.000, June 1996."
        SYNTAX   INTEGER {
           other(1),   -- none of the following
           cbr(2),     -- constant bit rate
           rtVbr(3),   -- real-time variable bit rate
           nrtVbr(4),  -- non real-time variable bit rate
           abr(5),     -- available bit rate
           ubr(6)      -- unspecified bit rate
           }

AtmSigDescrParamIndex ::= TEXTUAL-CONVENTION
        STATUS  current
        DESCRIPTION
            "The value of this object identifies a row in the
            atmSigDescrParamTable. The value 0 signifies that
            none of the signalling parameters defined in the
            atmSigDescrParamTable are applicable."
```

```
        SYNTAX  INTEGER (0..2147483647)

AtmTrafficDescrParamIndex ::= TEXTUAL-CONVENTION
        STATUS  current
        DESCRIPTION
            "The value of this object identifies a row in the
            atmTrafficDescrParamTable.  The value 0 signifies
            that no row has been identified."
        SYNTAX  INTEGER (0..2147483647)

AtmVcIdentifier ::= TEXTUAL-CONVENTION
        STATUS  current
        DESCRIPTION
            "The VCI value for a VCL. The maximum VCI value
            cannot exceed the value allowable by
            atmInterfaceMaxVciBits defined in ATM-MIB."
        SYNTAX   INTEGER (0..65535)

AtmVpIdentifier ::= TEXTUAL-CONVENTION
        STATUS  current
        DESCRIPTION
            "The VPI value for a VPL or VCL. The value VPI=0
            is only allowed for a VCL. For ATM UNIs supporting
            VPCs the VPI value ranges from 0 to 255.  The VPI
            value 0 is supported for ATM UNIs conforming to
            the ATM Forum UNI 4.0 Annex 8 (Virtual UNIs)
            specification. For ATM UNIs supporting VCCs the
            VPI value ranges from 0 to 255.  For ATM NNIs the
            VPI value ranges from 0 to 4095.  The maximum VPI
            value cannot exceed the value allowable by
            atmInterfaceMaxVpiBits defined in ATM-MIB."
        SYNTAX    INTEGER (0..4095)

AtmVorXAdminStatus ::= TEXTUAL-CONVENTION
        STATUS  current
        DESCRIPTION
            "The value determines the desired administrative
            status of a virtual link or cross-connect. The up
            and down states indicate that the traffic flow is
            enabled or disabled respectively on the virtual
            link or cross-connect."
        SYNTAX   INTEGER {
           up(1),
           down(2)
            }

AtmVorXLastChange ::= TEXTUAL-CONVENTION
        STATUS  current
```

```
        DESCRIPTION
            "The value of MIB II's sysUpTime at the time a
            virtual link or cross-connect entered its current
            operational state. If the current state was
            entered prior to the last re-initialization of the
            agent then this object contains a zero value."
        SYNTAX   TimeTicks

AtmVorXOperStatus ::= TEXTUAL-CONVENTION
        STATUS  current
        DESCRIPTION
            "The value determines the operational status of a
            virtual link or cross-connect. The up and down
            states indicate that the traffic flow is enabled
            or disabled respectively on the virtual link or
            cross-connect. The unknown state indicates that
            the state of it cannot be determined. The state
            will be down or unknown if the supporting ATM
            interface(s) is down or unknown respectively."
        SYNTAX   INTEGER {
           up(1),
           down(2),
           unknown(3)
           }



-- OBJECT-IDENTITIES:

-- The following atmTrafficDescriptorTypes has been moved
-- from RFC1695 and no longer appear in the revision of
-- RFC1695[3].

atmTrafficDescriptorTypes OBJECT IDENTIFIER ::= {mib-2 37 1 1}
                                            -- atmMIBObjects
                                            -- See [3].

-- All other and new OBJECT IDENTITIES
-- are defined under the following subtree:

    atmObjectIdentities OBJECT IDENTIFIER ::= {atmTCMIB 1}

-- The following values are defined for use as
-- possible values of the ATM traffic descriptor type.

atmNoTrafficDescriptor  OBJECT-IDENTITY
    STATUS  deprecated
```

```
    DESCRIPTION
        "This identifies the no ATM traffic
        descriptor type.  Parameters 1, 2, 3, 4,
        and 5 are not used.  This traffic descriptor
        type can be used for best effort traffic."
    ::= {atmTrafficDescriptorTypes 1}

atmNoClpNoScr  OBJECT-IDENTITY
    STATUS  current
    DESCRIPTION
        "This traffic descriptor type is for no CLP
        and no Sustained Cell Rate.  The use of the
        parameter vector for this type:
        Parameter 1: peak cell rate in cells/second
                     for CLP=0+1 traffic
        Parameter 2: not used
        Parameter 3: not used
        Parameter 4: not used
        Parameter 5: not used."
    REFERENCE
        "ATM Forum,ATM User-Network Interface,
           Version 3.0 (UNI 3.0) Specification, 1994.
         ATM Forum, ATM User-Network Interface,
           Version 3.1 (UNI 3.1) Specification,
           November 1994."
    ::= {atmTrafficDescriptorTypes 2}

atmClpNoTaggingNoScr  OBJECT-IDENTITY
    STATUS  deprecated
    DESCRIPTION
        "This traffic descriptor is for CLP without
        tagging and no Sustained Cell Rate.  The use
        of the parameter vector for this type:
        Parameter 1: peak cell rate in cells/second
                     for CLP=0+1 traffic
        Parameter 2: peak cell rate in cells/second
                     for CLP=0 traffic
        Parameter 3: not used
        Parameter 4: not used
        Parameter 5: not used."
    ::= {atmTrafficDescriptorTypes 3}

atmClpTaggingNoScr  OBJECT-IDENTITY
    STATUS  deprecated
    DESCRIPTION
        "This traffic descriptor is for CLP with
        tagging and no Sustained Cell Rate.  The use
        of the parameter vector for this type:
```

```
        Parameter 1: peak cell rate in cells/second
                     for CLP=0+1 traffic
        Parameter 2: peak cell rate in cells/second
                     for CLP=0 traffic, excess
                     tagged as CLP=1
        Parameter 3: not used
        Parameter 4: not used
        Parameter 5: not used."
    ::= {atmTrafficDescriptorTypes 4}

atmNoClpScr  OBJECT-IDENTITY
    STATUS  current
    DESCRIPTION
        "This traffic descriptor type is for no CLP
        with Sustained Cell Rate.  The use of the
        parameter vector for this type:
        Parameter 1: peak cell rate in cells/second
                     for CLP=0+1 traffic
        Parameter 2: sustainable cell rate in cells/second
                     for CLP=0+1 traffic
        Parameter 3: maximum burst size in cells
        Parameter 4: not used
        Parameter 5: not used."
    REFERENCE
        "ATM Forum,ATM User-Network Interface,
           Version 3.0 (UNI 3.0) Specification, 1994.
         ATM Forum, ATM User-Network Interface,
           Version 3.1 (UNI 3.1) Specification,
           November 1994."
    ::= {atmTrafficDescriptorTypes 5}

atmClpNoTaggingScr  OBJECT-IDENTITY
    STATUS  current
    DESCRIPTION
        "This traffic descriptor type is for CLP with
        Sustained Cell Rate and no tagging.  The use
        of the parameter vector for this type:
        Parameter 1: peak cell rate in cells/second
                     for CLP=0+1 traffic
        Parameter 2: sustainable cell rate in cells/second
                     for CLP=0 traffic
        Parameter 3: maximum burst size in cells
        Parameter 4: not used
        Parameter 5: not used."
    REFERENCE
        "ATM Forum,ATM User-Network Interface,
           Version 3.0 (UNI 3.0) Specification, 1994.
         ATM Forum, ATM User-Network Interface,
```

```
            Version 3.1 (UNI 3.1) Specification,
            November 1994."
    ::= {atmTrafficDescriptorTypes 6}

atmClpTaggingScr  OBJECT-IDENTITY
    STATUS  current
    DESCRIPTION
        "This traffic descriptor type is for CLP with
        tagging and Sustained Cell Rate.  The use of
        the parameter vector for this type:
        Parameter 1: peak cell rate in cells/second
                     for CLP=0+1 traffic
        Parameter 2: sustainable cell rate in cells/second
                     for CLP=0 traffic, excess tagged as
                     CLP=1
        Parameter 3: maximum burst size in cells
        Parameter 4: not used
        Parameter 5: not used."
    REFERENCE
        "ATM Forum,ATM User-Network Interface,
           Version 3.0 (UNI 3.0) Specification, 1994.
         ATM Forum, ATM User-Network Interface,
           Version 3.1 (UNI 3.1) Specification,
           November 1994."
    ::= {atmTrafficDescriptorTypes 7}

atmClpNoTaggingMcr  OBJECT-IDENTITY
    STATUS  current
    DESCRIPTION
        "This traffic descriptor type is for CLP with
        Minimum Cell Rate and no tagging.  The use of
        the parameter vector for this type:
        Parameter 1: peak cell rate in cells/second
                     for CLP=0+1 traffic
        Parameter 2: CDVT in tenths of microseconds
        Parameter 3: minimum cell rate in cells/second
        Parameter 4: unused
        Parameter 5: unused."
    REFERENCE
        "ATM Forum,ATM User-Network Interface,
           Version 3.0 (UNI 3.0) Specification, 1994.
         ATM Forum, ATM User-Network Interface,
           Version 3.1 (UNI 3.1) Specification,
           November 1994."
    ::= {atmTrafficDescriptorTypes 8}

atmClpTransparentNoScr  OBJECT-IDENTITY
    STATUS  current
```

```
    DESCRIPTION
        "This traffic descriptor type is for the CLP-
        transparent model and no Sustained Cell Rate.
        The use of the parameter vector for this type:
        Parameter 1: peak cell rate in cells/second
                     for CLP=0+1 traffic
        Parameter 2: CDVT in tenths of microseconds
        Parameter 3: not used
        Parameter 4: not used
        Parameter 5: not used.

        This traffic descriptor type is applicable to
        connections following the CBR.1 conformance
        definition.

        Connections specifying this traffic descriptor
        type will be rejected at UNI 3.0 or UNI 3.1
        interfaces.  For a similar traffic descriptor
        type that can be accepted at UNI 3.0 and
        UNI 3.1 interfaces, see atmNoClpNoScr."
    REFERENCE
        "ATM Forum,ATM User-Network Interface,
           Version 3.0 (UNI 3.0) Specification, 1994.
         ATM Forum, ATM User-Network Interface,
           Version 3.1 (UNI 3.1) Specification,
           November 1994.
         ATM Forum, Traffic Management Specification,
           Version 4.0, af-tm-0056.000, June 1996."
    ::= {atmTrafficDescriptorTypes 9}

atmClpTransparentScr  OBJECT-IDENTITY
    STATUS  current
    DESCRIPTION
        "This traffic descriptor type is for the CLP-
        transparent model with Sustained Cell Rate.
        The use of the parameter vector for this type:
        Parameter 1: peak cell rate in cells/second
                     for CLP=0+1 traffic
        Parameter 2: sustainable cell rate in cells/second
                     for CLP=0+1 traffic
        Parameter 3: maximum burst size in cells
        Parameter 4: CDVT in tenths of microseconds
        Parameter 5: not used.

        This traffic descriptor type is applicable to
        connections following the VBR.1 conformance
        definition.
```

```
        Connections specifying this traffic descriptor
        type will be rejected at UNI 3.0 or UNI 3.1
        interfaces.  For a similar traffic descriptor
        type that can be accepted at UNI 3.0 and
        UNI 3.1 interfaces, see atmNoClpScr."
    REFERENCE
        "ATM Forum,ATM User-Network Interface,
           Version 3.0 (UNI 3.0) Specification, 1994.
         ATM Forum, ATM User-Network Interface,
           Version 3.1 (UNI 3.1) Specification,
           November 1994.
         ATM Forum, Traffic Management Specification,
           Version 4.0, af-tm-0056.000, June 1996."
    ::= {atmTrafficDescriptorTypes 10}

atmNoClpTaggingNoScr  OBJECT-IDENTITY
    STATUS  current
    DESCRIPTION
        "This traffic descriptor type is for no CLP
        with tagging and no Sustained Cell Rate.  The
        use of the parameter vector for this type:
        Parameter 1: peak cell rate in cells/second
                     for CLP=0+1 traffic
        Parameter 2: CDVT in tenths of microseconds
        Parameter 3: not used
        Parameter 4: not used
        Parameter 5: not used.

        This traffic descriptor type is applicable to
        connections following the UBR.2 conformance
        definition ."
    REFERENCE
        "ATM Forum,ATM User-Network Interface,
           Version 3.0 (UNI 3.0) Specification, 1994.
         ATM Forum, ATM User-Network Interface,
           Version 3.1 (UNI 3.1) Specification,
           November 1994.
         ATM Forum, Traffic Management Specification,
           Version 4.0, af-tm-0056.000, June 1996."
    ::= {atmTrafficDescriptorTypes 11}

atmNoClpNoScrCdvt  OBJECT-IDENTITY
    STATUS  current
    DESCRIPTION
        "This traffic descriptor type is for no CLP
        and no Sustained Cell Rate.  The use of the
        parameter vector for this type:
        Parameter 1: peak cell rate in cells/second
```

```
                    for CLP=0+1 traffic
            Parameter 2: CDVT in tenths of microseconds
            Parameter 3: not used
            Parameter 4: not used
            Parameter 5: not used.

            This traffic descriptor type is applicable to
            CBR connections following the UNI 3.0/3.1
            conformance definition for PCR CLP=0+1.
            These CBR connections differ from CBR.1
            connections in that the CLR objective
            applies only to the CLP=0 cell flow.

            This traffic descriptor type is also
            applicable to connections following the UBR.1
            conformance definition."
        REFERENCE
            "ATM Forum,ATM User-Network Interface,
               Version 3.0 (UNI 3.0) Specification, 1994.
             ATM Forum, ATM User-Network Interface,
               Version 3.1 (UNI 3.1) Specification,
               November 1994.
             ATM Forum, Traffic Management Specification,
               Version 4.0, af-tm-0056.000, June 1996."
        ::= {atmTrafficDescriptorTypes 12}

atmNoClpScrCdvt  OBJECT-IDENTITY
        STATUS  current
        DESCRIPTION
            "This traffic descriptor type is for no CLP
            with Sustained Cell Rate.  The use of the
            parameter vector for this type:
            Parameter 1: peak cell rate in cells/second
                         for CLP=0+1 traffic
            Parameter 2: sustainable cell rate in cells/second
                         for CLP=0+1 traffic
            Parameter 3: maximum burst size in cells
            Parameter 4: CDVT in tenths of microseconds
            Parameter 5: not used.

            This traffic descriptor type is applicable
            to VBR connections following the UNI 3.0/3.1
            conformance definition for PCR CLP=0+1 and
            SCR CLP=0+1.  These VBR connections
            differ from VBR.1 connections in that
            the CLR objective applies only to the CLP=0
            cell flow."
        REFERENCE
```

```
        "ATM Forum,ATM User-Network Interface,
           Version 3.0 (UNI 3.0) Specification, 1994.
         ATM Forum, ATM User-Network Interface,
           Version 3.1 (UNI 3.1) Specification,
           November 1994.
         ATM Forum, Traffic Management Specification,
           Version 4.0, af-tm-0056.000, June 1996."
    ::= {atmTrafficDescriptorTypes 13}

atmClpNoTaggingScrCdvt  OBJECT-IDENTITY
    STATUS  current
    DESCRIPTION
        "This traffic descriptor type is for CLP with
        Sustained Cell Rate and no tagging.  The use
        of the parameter vector for this type:
        Parameter 1: peak cell rate in cells/second
                     for CLP=0+1 traffic
        Parameter 2: sustainable cell rate in cells/second
                     for CLP=0 traffic
        Parameter 3: maximum burst size in cells
        Parameter 4: CDVT in tenths of microseconds
        Parameter 5: not used.

        This traffic descriptor type is applicable to
        connections following the VBR.2 conformance
        definition."
    REFERENCE
        "ATM Forum,ATM User-Network Interface,
           Version 3.0 (UNI 3.0) Specification, 1994.
         ATM Forum, ATM User-Network Interface,
           Version 3.1 (UNI 3.1) Specification,
           November 1994.
         ATM Forum, Traffic Management Specification,
           Version 4.0, af-tm-0056.000, June 1996."
    ::= {atmTrafficDescriptorTypes 14}

atmClpTaggingScrCdvt  OBJECT-IDENTITY
    STATUS  current
    DESCRIPTION
        "This traffic descriptor type is for CLP with
        tagging and Sustained Cell Rate.  The use of
        the parameter vector for this type:
        Parameter 1: peak cell rate in cells/second
                     for CLP=0+1 traffic
        Parameter 2: sustainable cell rate in cells/second
                     for CLP=0 traffic, excess tagged as
                     CLP=1
        Parameter 3: maximum burst size in cells
```

```
        Parameter 4: CDVT in tenths of microseconds
        Parameter 5: not used.

        This traffic descriptor type is applicable to
        connections following the VBR.3 conformance
        definition."
    REFERENCE
        "ATM Forum,ATM User-Network Interface,
           Version 3.0 (UNI 3.0) Specification, 1994.
         ATM Forum, ATM User-Network Interface,
           Version 3.1 (UNI 3.1) Specification,
           November 1994.
         ATM Forum, Traffic Management Specification,
           Version 4.0, af-tm-0056.000, June 1996."
    ::= {atmTrafficDescriptorTypes 15}

END
```

3. Acknowledgments

This document is a product of the AToMMIB Working Group.

4. References

[1] Case, J., McCloghrie, K., Rose, M. and S. Waldbusser, "Textual Conventions for Version 2 of the Simple Network Management Protocol (SNMPv2)", RFC 1903, January 1996.

[2] Case, J., McCloghrie, K., Rose, M. and S. Waldbusser, "Structure of Management Information for Version 2 of the Simple Network Management Protocol (SNMPv2)", RFC 1902, January 1996.

[3] Tesink, K., Editor, "Definitions of Managed Objects for ATM Management", RFC 2515, February 1999.

5. Security Considerations

This memo defines textual conventions and object identities for use in ATM MIB modules. Security issues for these MIB modules are addressed in the memos defining those modules.

6. Authors' Addresses

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