

Network Working Group
Request for Comments: 2514
Category: Standards Track

M. Noto
3Com
E. Spiegel
Cisco Systems
K. Tesink
Bellcore
Editors
February 1999

Definitions of Textual Conventions and OBJECT-IDENTITIES
for ATM Management

Status of this Memo

This document specifies an Internet standards track protocol for the Internet community, and requests discussion and suggestions for improvements. Please refer to the current edition of the "Internet Official Protocol Standards" (STD 1) for the standardization state and status of this protocol. Distribution of this memo is unlimited.

Copyright Notice

Copyright (C) The Internet Society (1999). All Rights Reserved.

Table of Contents

1 Introduction	2
2 Definitions	3
3 Acknowledgments	17
4 References	17
5 Security Considerations	17
6 Authors' Addresses	18
7 Intellectual Property	19
8 Full Copyright Statement	20

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"
  ORGANIZATION "IETF AToMMIB Working Group"
  CONTACT-INFO
    "
      Michael Noto
      Postal: 3Com Corporation
             5400 Bayfront Plaza, M/S 3109
             Santa Clara, CA 95052
             USA
      Tel:    +1 408 326 2218
      E-mail: mike_noto@3com.com
```

```
      Ethan Mickey Spiegel
```

Postal: Cisco Systems
 170 W. Tasman Dr.
 San Jose, CA 95134
 USA
 Tel: +1 408 526 6408
 E-mail: mspiegel@cisco.com

Kaj Tesink
 Postal: Bellcore
 331 Newman Springs Road
 Red Bank, NJ 07701
 USA
 Tel: +1 732 758 5254
 Fax: +1 732 758 4177
 E-mail: kaj@bellcore.com"

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),
    atmUni3Dot0(4),
    atmUni3Dot1(5),
    atmUni4Dot0(6),
    atmIispUni3Dot0(7),
    atmIispUni3Dot1(8),
    atmIispUni4Dot0(9),
    atmPnni1Dot0(10),
    atmBici2Dot0(11),
    atmUniPvcOnly(12),
    atmNniPvcOnly(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

Michael Noto
3Com Corporation
5400 Bayfront Plaza, M/S 3109
Santa Clara, CA 95052

Phone +1 408 326 2218
Email: mike_noto@3com.com

Ethan Mickey Spiegel
Cisco Systems
170 W. Tasman Dr.
San Jose, CA 95134
USA

Phone +1 408 526 6408
EMail: mspiegel@cisco.com

Kaj Tesink
Bellcore
331 Newman Springs Road
P.O. Box 7020
Red Bank, NJ 07701-7020

Phone: (732) 758-5254
EMail: kaj@bellcore.com

7. Intellectual Property

The IETF takes no position regarding the validity or scope of any intellectual property or other rights that might be claimed to pertain to the implementation or use of the technology described in this document or the extent to which any license under such rights might or might not be available; neither does it represent that it has made any effort to identify any such rights. Information on the IETF's procedures with respect to rights in standards-track and standards-related documentation can be found in BCP-11. Copies of claims of rights made available for publication and any assurances of licenses to be made available, or the result of an attempt made to obtain a general license or permission for the use of such proprietary rights by implementors or users of this specification can be obtained from the IETF Secretariat.

The IETF invites any interested party to bring to its attention any copyrights, patents or patent applications, or other proprietary rights which may cover technology that may be required to practice this standard. Please address the information to the IETF Executive Director.

8. Full Copyright Statement

Copyright (C) The Internet Society (1999). All Rights Reserved.

This document and translations of it may be copied and furnished to others, and derivative works that comment on or otherwise explain it or assist in its implementation may be prepared, copied, published and distributed, in whole or in part, without restriction of any kind, provided that the above copyright notice and this paragraph are included on all such copies and derivative works. However, this document itself may not be modified in any way, such as by removing the copyright notice or references to the Internet Society or other Internet organizations, except as needed for the purpose of developing Internet standards in which case the procedures for copyrights defined in the Internet Standards process must be followed, or as required to translate it into languages other than English.

The limited permissions granted above are perpetual and will not be revoked by the Internet Society or its successors or assigns.

This document and the information contained herein is provided on an "AS IS" basis and THE INTERNET SOCIETY AND THE INTERNET ENGINEERING TASK FORCE DISCLAIMS ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY WARRANTY THAT THE USE OF THE INFORMATION HEREIN WILL NOT INFRINGE ANY RIGHTS OR ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

