**Configuration Commands**

**Generic Commands**

**description**

| Syntax          | description **description-string**
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>no description</td>
</tr>
</tbody>
</table>

**Context** config>qos>>atm-td-profile

**Description**

This command creates a text description stored in the configuration file for a configuration context.

The **description** command associates a text string with a configuration context to help identify the context in the configuration file.

The **no** form of this command removes any description string from the context.

**Default**

No description is associated with the configuration context.

**Parameters**

**description-string** — A text string describing the entity. Allowed values are any string up to 80 characters long composed of printable, 7-bit ASCII characters excluding double quotes. If the string contains special characters (#, $, spaces, etc.), the entire string must be enclosed within double quotes.
Operational Commands

copy

Syntax

    copy atm-td-profile src-prof dst-prof [overwrite]

Context

    config>qos

Description

    This command copies the source atm profile into the destination atm profile. If the destination profile
    was already defined, the keyword 'overwrite' must be appended for the copy to complete.

    The copy command is a configuration level maintenance tool used to create new profiles using existing
    profiles. It also allows bulk modifications to an existing profile with the use of the overwrite keyword.

Parameters

    atm-td-profile src-prof dst-prof — Indicates that the source profile ID and the destination profile ID
    are atm-td-profile IDs. Specify the source ID that the copy command will copy and specify the
    destination ID to which the command will duplicate the profile to a new or different profile ID.

    Values

    1 — 1000

    overwrite — Specifies to replace the existing destination profile. Everything in the existing
    destination policy will be overwritten with the contents of the source policy. If overwrite is not spec-
    ified, an error will occur if the destination profile ID exists.

    A:ALA-48>config>qos# copy atm-td-profile 2 10
    MINOR: CLI destination (10) exists use {overwrite}.
    A:ALA-48>config>qos# copy atm-td-profile 2 10 overwrite
    A:ALA-48>config>qos#
ATM QoS Policy Commands

atm-td-profile

Syntax  
[no] atm-td-profile traffic-desc-profile-id

Context  
config>qos

Description  
This command is used to configure an ATM traffic descriptor profile.

Traffic descriptor profiles are used to:
1. Define traffic management capabilities for ATM PVCCs.
2. Calculate the total bandwidth consumed on a given port by all ATM PVCC(s). The BW taken by a PVCC is equal to:
   a. PIR for CBR PVCCs
   b. SIR for rt-vbr and nrt-vbr PVCCs
   c. MIR for UBR PVCC
3. Define ATM-level SAR scheduling

The default traffic descriptor is pre-configured and non-modifiable. It cannot be deleted. All other traffic descriptor profiles must be explicitly created before use. The create keyword must follow each new profile configuration.

Any changes made to the existing profile, using any of the sub-commands are applied immediately to all objects where this profile is applied (a small traffic interruption in data traffic will occur during the data plane reprogramming with the newly modified profile).

When many changes are required on a profile, it is recommended that the profile be copied to a work area profile ID. That work-in-progress profile can be modified until complete and then written over the original profile-id. Use the config qos copy command to maintain profiles in this manner.

The weight assigned to each non-shaped PVCC in the Deficit Round Robin Scheduler depends on the service category and traffic rates (see traffic command for more details).

The no form of the command deletes a given traffic profile. Note that the profile to be deleted must not be associated with any object (for example a SAP). If this condition is not met, the command will return an error.

Default  
1 — Default Traffic Descriptor (UBR, no traffic, no shaping)

Parameters  
traffic-desc-profile-id — Index identifier for a traffic descriptor profile

Values  
1 — 1000
clp-tagging

**Syntax**  
[no] clp-tagging

**Context**  
config>qos>atm-td-profile

**Description**  
This command controls the setting of the CLP bit in the ATM cell header for egress traffic on an IES or VPRN SAP.

When enabled, traffic queued on expedited queues has the CLP bit set to zero, while traffic on non-expedited queues has the CLP bit set to one.

The no form of the command sets the CLP bit set to zero.

**Default**  
no clp-tagging

descriptor-type

**Syntax**  
descriptor-type (type)

**Context**  
config>qos>atm-td-profile

**Description**  
This command is used to specify the type of the traffic descriptor profile as per ATM Forum Traffic Management Specification Version 4.1.

**Parameters**  
Values  
P0_1, P0_1andS0_Tag, P0_1andS0, P0_1andS0_1

The descriptor type defines interpretation of traffic parameters that are specified for this profile. The following table details these rules:

<table>
<thead>
<tr>
<th>Descriptor Type</th>
<th>Rates Interpretation</th>
<th>Applicable Service Categories</th>
</tr>
</thead>
<tbody>
<tr>
<td>P0_1</td>
<td>PIR applies to CLP=0 and CLP=1 cell flows</td>
<td>CBR, UBR, UBR with MIR</td>
</tr>
</tbody>
</table>
| P0_1andS0_1     | PIR applies to CLP=0 and CLP=1 cell flows  
SCR applies to CLP=0 and CLP=1 cell flows | rt-VBR and nrt-VBR |
| P0_1andS0       | PIR applies to CLP=0 and CLP=1 cell flows  
SCR applies to CLP=0 cell flow | rt-VBR and nrt-VBR |

Setting descriptor type to a value not compatible with the service category (as defined in the above table) is an error.

**Default**  
The following table defines default values of descriptor type based on a service category:
**policing**

**Syntax**  
[no] policing

**Context**  
config>qos>atm-td-profile

**Description**  
This command determines whether ingress traffic is policed. Policing is valid for CBR, RT-VBR and NRT-VBR. This is cell-based policing.

**Default**  
disabled

**service-category**

**Syntax**  
service-category service-category

**Description**  
config>qos>atm-td-profile

**Parameters**  
The router supports the following ATM service categories on ATM-capable MDAs:

<table>
<thead>
<tr>
<th>Service Category</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CBR</td>
<td>Constant Bit Rate</td>
</tr>
<tr>
<td>rt-VBR</td>
<td>real time Variable Bit Rate</td>
</tr>
<tr>
<td>nrt-VBR</td>
<td>non-real time Variable Bit Rate</td>
</tr>
<tr>
<td>UBR</td>
<td>Unspecified Bit Rate without Minimum Desired Cell Rate (defined by specifying service category to be ubr, and MIR of 0)</td>
</tr>
<tr>
<td>UBR (with MIR)</td>
<td>Unspecified Bit Rate with non-zero Minimum Desired Cell Rate (defined by specifying service category to be ubr, and MIR &gt; 0)</td>
</tr>
</tbody>
</table>

Changing the service category of a profile will reset all traffic attributes to their defaults (see the traffic command) and will cause reprogramming of the data path (with a small impact on user traffic) and a reset of VC statistics for all VCs using this traffic descriptor profile.

**Default**  
ubr
shaping

**Syntax**  
[no] shaping

**Context**  
config>qos>atm-td-profile

**Description**  
This command enables cell level shaping when the ATM traffic descriptor profile is applied to an ATM SAP queue. Shaping is only applied in the egress queue of the ATM SAP. Shaping cannot be enabled on an ATM SAP with the UBR service category.

The no form of this command disables shaping.

**Default**  
The default is determined by the service category. The following default applies for shaping depending upon a given service category:

<table>
<thead>
<tr>
<th>Applicable Service Category</th>
<th>Default Shaping Value</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>UBR</td>
<td>disabled</td>
<td>Shaping cannot be enabled</td>
</tr>
<tr>
<td>CBR</td>
<td>enabled</td>
<td>Shaping cannot be disabled when the profile is applied to ATM SAP on ATM MDA</td>
</tr>
<tr>
<td>rt-VBR</td>
<td>enabled</td>
<td>Shaping cannot be disabled when applied to ATM SAP on ATM MDA</td>
</tr>
<tr>
<td>nrt-VBR</td>
<td>enabled</td>
<td></td>
</tr>
</tbody>
</table>

traffic

**Syntax**  
traffic [sir sir-val] [pir pir-val] [mir mir-val] [mbs mbs-val] [cdvt cdvt-val]  
no traffic

**Context**  
config>qos>atm-td-profile

**Description**  
This command is used to configure traffic attributes of an ATM traffic profile as per ATM Forum Traffic Management Specification Version 4.1.

The traffic parameters of a traffic descriptor that are configurable depends on the service category of this traffic descriptor profile (see the service-category command).

The following table defines which traffic descriptor parameters are applicable for what service category and what are configuration rules between the parameters. Y indicates the parameter can be configured for a given service category and will be defaulted if not provided, an N/A indicates the parameter cannot be configured for a given service category (an error will be returned). If an applicable parameter is not specified, the current value will be preserved.
Configuring PIR for traffic descriptor profiles for UBR and UBR with MIR service categories has no impact on a traffic contract when a PVCC using that profile resides on an m4-atmoc12/3-sfp MDA. On this MDA SAR ignores PIR (de-facto treating each UBR as it would have a PIR of max. line rate). The default pir value for UBR and UBR with MIR reflects this behavior.

When a traffic descriptor profile is used to define egress scheduling, the following describes how traffic rates are used to derive scheduling weight:

1. UBR PVCCs (i.e., MIR = 0) are assigned weight value of 1
2. UBR with MIR PVCCs are assigned weight value in the inclusive range from 1 to 255 based on the MIR rate.
3. rt-VBR and nrt-VBR PVCCs are assigned weight value in the inclusive range from 1 to 255 based on the SCR rate
4. CBR PVCCs are assigned weight value in the inclusive range from 1 to 255 based on the PIR rate

The scheduling weight is derived from the traffic rate based on the following formula:

- If traffic rate \( \leq 32 \) Kbps, then weight = 1
- If 32 Kbps < traffic rate < 8160 Kbps, then weight = floor (traffic rate / 32)
- If traffic rate \( \geq 8160 \) Kbps, then weight = 255

The configuration of weight unit (32 Kbps) is left for future releases.

Since the SAR operates in cells/second with 1 cell granularity, PIR and SCR values programmed need to be converted to cells per second. When converting values to be used for scheduler, the result is rounded up to the next cell when required by conversion.

When any of SIR, PIR, or MIR is greater than the physical maximum port/channel capacity for a given PVCC, then the maximum physical port/channel capacity is used in BW accumulation and when configuring the H/W for that PVCC.

Hardware-enforceable mbs is in the inclusive range from 3 to 256 000 cells. Any value outside of that range will be accepted and rounded up/down to the minimum/maximum enforceable value.

The no form of the command restores traffic parameters to their defaults for a given service category.
By default ATM traffic parameters are, in kbps:

<table>
<thead>
<tr>
<th>Service Category</th>
<th>Traffic Parameter Defaults</th>
</tr>
</thead>
<tbody>
<tr>
<td>CBR:</td>
<td></td>
</tr>
<tr>
<td>PIR</td>
<td>0</td>
</tr>
<tr>
<td>rt-VBR and nrt-VBR</td>
<td></td>
</tr>
<tr>
<td>PIR</td>
<td>0</td>
</tr>
<tr>
<td>SCR</td>
<td>0</td>
</tr>
<tr>
<td>MBS</td>
<td>32</td>
</tr>
<tr>
<td>UBR (note by default UBR is without MIR)</td>
<td></td>
</tr>
<tr>
<td>PIR</td>
<td>0</td>
</tr>
<tr>
<td>MIR</td>
<td>0</td>
</tr>
</tbody>
</table>

**Parameters**

- **sir value** — Sustained Information Rate (including cell overhead) in kilobits per second.
  - **Values** 0 — 4294967295

- **pir value** — Peak Information Rate (including cell overhead) in kilobits per second.
  - **Values** 0 — 4294967295

- **mir value** — Minimum Desired Information Rate (including cell overhead) in kilobits per second.
  - **Values** 0 — 4294967295

- **mbs value** — Maximum Burst Size in cells
  - **Values** 0 — 4294967295

- **cdvt cdvt-val** — "The Cell Delay Variation Tolerance (CDVT), in microseconds.
  - **Default** Depending upon a given service category:
    - CBR/RT-VBR/NRT-VBR 250
  - **Values** 0 — 4294967295
Show Commands

atm-td-profile

Syntax

atm-td-profile [traffic-desc-profile-id] [detail]

Context

show>qos

Description

This command displays ATM traffic descriptor profile information.

Parameters

traffic-desc-profile-id — Displays the ATM traffic descriptor profile.

Values

1 — 1000

detail — Displays detailed policy information including policy associations.

Output

ATM TD Profile Output — The following table describes ATM traffic descriptor profile show command output.

<table>
<thead>
<tr>
<th>Label</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Supported Profiles</td>
<td>Displays the maximum number of ATM traffic descriptor profiles that can be configured on this system.</td>
</tr>
<tr>
<td>Currently Configured Profiles</td>
<td>Displays the number of currently configured ATM traffic descriptor profiles on this system.</td>
</tr>
<tr>
<td>TDP-ID</td>
<td>The ID that uniquely identifies the traffic descriptor policy.</td>
</tr>
<tr>
<td>Description</td>
<td>A text string that helps identify the policy’s context in the configuration file.</td>
</tr>
<tr>
<td>Service Category</td>
<td>Displays the ATM service category.</td>
</tr>
<tr>
<td>SCR</td>
<td>Displays the sustained cell rate in Kbps.</td>
</tr>
<tr>
<td>PIR</td>
<td>Displays the peak cell rate in Kbps.</td>
</tr>
<tr>
<td>MIR</td>
<td>Displays the Minimum Desired Cell Rate in Kbps.</td>
</tr>
<tr>
<td>MBS</td>
<td>Displays the maximum burst size in cells.</td>
</tr>
<tr>
<td>Shaping</td>
<td>Displays whether shaping is enabled or disabled for the traffic descriptor profile.</td>
</tr>
<tr>
<td>Entities using TDP-ID</td>
<td>Displays the number of entities using the ATM traffic descriptor.</td>
</tr>
<tr>
<td>-</td>
<td>Indicates that the parameter is not applicable for the configured service category.</td>
</tr>
</tbody>
</table>
A:ALA-48>config>qos>atm-td-profile# show qos atm-td-profile

Traffic Descriptor Profiles

Maximum Supported Profiles : 1000
Currently Configured Profiles : 3

<table>
<thead>
<tr>
<th>TDP-id</th>
<th>Description</th>
<th>Service Category</th>
<th>SCR</th>
<th>PIR</th>
<th>MIR</th>
<th>MBS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Default Traffic Descriptor</td>
<td>UBR</td>
<td>-</td>
<td>0</td>
<td>0</td>
<td>-</td>
</tr>
<tr>
<td>2</td>
<td>Default Traffic Descriptor</td>
<td>NRT_VBR</td>
<td>4000</td>
<td>5000</td>
<td>-</td>
<td>32</td>
</tr>
<tr>
<td>10</td>
<td>Default Traffic Descriptor</td>
<td>NRT_VBR</td>
<td>4000</td>
<td>5000</td>
<td>-</td>
<td>32</td>
</tr>
</tbody>
</table>

A:ALA-48>config>qos>atm-td-profile#

A:ALA-48>config>qos>atm-td-profile# show qos atm-td-profile 10 detail

Traffic Descriptor Profile (10)

<table>
<thead>
<tr>
<th>TDP-id</th>
<th>Description</th>
<th>Service Category</th>
<th>SCR</th>
<th>PIR</th>
<th>MIR</th>
<th>MBS</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>Default Traffic Descriptor</td>
<td>NRT_VBR</td>
<td>4000</td>
<td>5000</td>
<td>-</td>
<td>32</td>
</tr>
</tbody>
</table>

TDP details

Shaping : disabled

Entities using TDP-10

A:ALA-48>config>qos>atm-td-profile#
sap-using

Syntax  

sap-using [ingress | egress] atm-td-profile td-profile-id

Context  

show>service

Description  

Displays atm-td-profile SAP information.

If no optional parameters are specified, the command displays a summary of all defined SAPs.

The optional parameters restrict output to only SAPs matching the specified properties.

Parameters  

**ingress** — Specifies matching an ingress policy.

**egress** — Specifies matching an egress policy.

**qos-policy qos-policy-id** — The ingress or egress QoS Policy ID for which to display matching SAPs.

**Values**  

1 — 65535

**filter filter-id** — The ingress or egress Filer Policy ID for which to display matching SAPs.

**Values**  

1 — 65535

**sap-id** — Specifies the physical port identifier portion of the SAP definition.

**Values:** sap-id:  

null [port-id | bundle-id | bpgrp-id | lag-id | aps-id]

dot1q [port-id | bundle-id | bpgrp-id | lag-id | aps-id]:qtag1

qinq [port-id | bundle-id | bpgrp-id | lag-id]:qtag1.qtag2

atm [port-id | aps-id]:[vpi/vci|vpi|vpi1.vpi2]

frame [port-id | aps-id]:dlci

cisco-hdlc slot/mda/port.channel

cem slot/mda/port.channel

ima-grp [bundle-id]:[vpi/vci|vpi|vpi1.vpi2]

port-id slot/mda/port_[channel]

bundle-id bundle-type-slot/mda.bundle-num

bundle keyword

type ima, ppp

bundle-num 1 — 256

bpgrp-id bpgrp-type-bpgrp-num

bpgrp keyword

type ima, ppp

bpgrp-num 1 — 1280

aps-id aps-group-id_[channel]

aps keyword

group-id 1 — 64

ccag-id ccag-id.path-id[cc-type].cc-id

ccag keyword

id 1 — 8

path-id a, b

cc-type .sap-net, .net-sap

cc-id 0 — 4094

lag-id lag-id
**interface** — Specifies matching SAPs with the specified IP interface.

**ip-addr** — The IP address of the interface for which to display matching SAPs.

**Values**

- **ip-int-name** — The IP interface name for which to display matching SAPs.

**td-profile-id** — Profile ID that identifies a specific profile to display.

### Output

**Show Service SAP** — The following table describes show service SAP output fields:

<table>
<thead>
<tr>
<th>Label</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Port ID</td>
<td>The ID of the access port where the SAP is defined.</td>
</tr>
<tr>
<td>Svc ID</td>
<td>The service identifier.</td>
</tr>
<tr>
<td>SapMTU</td>
<td>The SAP MTU value.</td>
</tr>
<tr>
<td>I.QoS</td>
<td>The SAP ingress QoS policy number specified on the ingress SAP.</td>
</tr>
<tr>
<td>I.MAC/IP</td>
<td>The MAC or IP filter policy ID applied to the ingress SAP.</td>
</tr>
<tr>
<td>E.QoS</td>
<td>The SAP egress QoS policy number specified on the egress SAP.</td>
</tr>
<tr>
<td>E.Mac/IP</td>
<td>The MAC or IP filter policy ID applied to the egress SAP.</td>
</tr>
<tr>
<td>A.Pol</td>
<td>The accounting policy ID assigned to the SAP.</td>
</tr>
<tr>
<td>Adm</td>
<td>The desired state of the SAP.</td>
</tr>
<tr>
<td>Opr</td>
<td>The actual state of the SAP.</td>
</tr>
</tbody>
</table>

### Sample Output

```
A:ALA-48>config>service>ies# show service sap-using sap 1/3/2:244/1
===============================================================================
Service Access Points Using Port 1/3/2:15990785
===============================================================================
PortId | SvcId | I.QoS | I.Fltr | E.QoS | E.Fltr | A.Pol | Adm | Opr
-------|-------|-------|--------|-------|--------|-------|-----|-----
1/3/2:244/1 | 89 | 1 | none | 1 | none | none | Up | Down
Number of SAPs : 1
===============================================================================
A:ALA-48>config>service>ies#
```
port

**Syntax**

- `port [port-id] atm`
- `port [port-id] atm connections`
- `port [port-id] atm interface-connections`
- `port [port-id] atm pvc`
- `port [port-id] atm pvp`
- `port [port-id] atm pvt`

**Context**

`show`

**Description**

This command displays port or channel information.

**Parameters**

- `port-id` — Specifies the physical port ID in the form `slot/mda/port`.

  **Syntax**

  `slot[/mda[/port[._sonet-sdh-index]]]]`

  **Slot Values**

  - 7750 SR12: 1 - 10
  - 7750 SR7: 1 - 5
  - 7750 SR1: 1

  **MDA Values**

  - 7750 SR-c12 1, 2

  **Port Values**

  - 1 — 60 (depending on the MDA)

  **Channelized Port Values** (for channelized MDAs):

    For example, 7/2/1.1.1.24

    For example, 7/1/1.1.1

- `connections` — Display ATM connection information
- `interface-connection` — Display ATM interface connection information
- `pvc` — Displays ATM port PVC information
- `pvp` — Displays ATM port PVP information
- `pvt` — Displays ATM port PVT information
- `vpi` — Specifies the ATM network virtual path identifier (VPI) for this PVC.
- `vci` — Specifies the ATM network virtual channel identifier (VCI) for this PVC.
- `detail` — Provides detailed information.

**Output**

**Port ATM PVC Detail Output** — The following table describes port ATM PVC detail output fields.

<table>
<thead>
<tr>
<th>Label</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Port Id</td>
<td>The port ID configured or displayed in the <code>slot/mda/port</code> format.</td>
</tr>
<tr>
<td>VPI/VCI</td>
<td>Displays the VPI/VCI values.</td>
</tr>
<tr>
<td>Admin State</td>
<td>Displays the administrative state of the interface connection.</td>
</tr>
</tbody>
</table>

---

7750 SR OS Quality of Service Guide  Page 645
<table>
<thead>
<tr>
<th>Label</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oper State</td>
<td>Indicates the status of the ATM interface.</td>
</tr>
<tr>
<td>OAM State</td>
<td>Indicates the OAM operational status of ATM connections. ETE indicates end-to-end connection. AIS denotes alarm indication signal. RDI denotes for remote defect indication. AIS-LOC indicates the alarm was due to loss of continuity of periodic loopbacks.</td>
</tr>
<tr>
<td>Encap Type</td>
<td>Indicates the encapsulation type.</td>
</tr>
<tr>
<td>Owner</td>
<td>Identifies the system entity that owns a specific ATM connection.</td>
</tr>
<tr>
<td>AAL Type</td>
<td>Displays ATM Adaptation Layer 5 (AAL5) information.</td>
</tr>
<tr>
<td>Endpoint Type</td>
<td>Displays the endpoint type.</td>
</tr>
<tr>
<td>Cast Type</td>
<td>Indicates the connection topology type.</td>
</tr>
<tr>
<td>Type</td>
<td>Indicates the connection type.</td>
</tr>
<tr>
<td>Ing. Td Idx</td>
<td>Specifies the ATM traffic descriptor profile that applies to the receive direction of the interface connection.</td>
</tr>
<tr>
<td>Egr. Td Idx</td>
<td>Specifies the ATM traffic descriptor profile that applies to the transmit direction of the interface connection.</td>
</tr>
<tr>
<td>Last Changed</td>
<td>Indicates the date and time when the interface connection entered its current operational state.</td>
</tr>
<tr>
<td>Octets</td>
<td>Displays the number of input and output octets. HEC discarded cells are not included in the input octet numbers.</td>
</tr>
<tr>
<td>Cells</td>
<td>Displays the number of input and output cells. HEC discarded cells are not included in the input cell numbers.</td>
</tr>
<tr>
<td>Packets</td>
<td>Displays the number of input and output packets. Packets discarded due to HEC or oversize discards are not counted. CRC errored are also in the packet counts and display on the VC level statistics but not on the port level.</td>
</tr>
<tr>
<td>Dropped Packets</td>
<td>Displays the number of packets dropped by the ATM SAR device.</td>
</tr>
<tr>
<td>CRC-32 Errors</td>
<td>Displays the number of valid AAL-5 SDUs and AAL-5 SDUs with CRC-32 errors received by the AAL-5 VCC.</td>
</tr>
<tr>
<td>Reassembly Time-outs</td>
<td>Displays the number of reassembly timeout occurrences.</td>
</tr>
<tr>
<td>Over Sized SDUs</td>
<td>Displays the total number of oversized SDU discards.</td>
</tr>
<tr>
<td>AIS</td>
<td>Displays the number of AIS cells transmitted and received on this connection for both end to end and segment.</td>
</tr>
</tbody>
</table>
Table 52: Show Port ATM PVC VPI/VCI Detail Output Fields  (Continued)

<table>
<thead>
<tr>
<th>Label</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RDI</td>
<td>Displays the number of RDI cells transmitted and received on this connection for both end to end and segment.</td>
</tr>
<tr>
<td>Loopback</td>
<td>Displays the number of loopback requests and responses transmitted and received on this connection for both end to end and segment.</td>
</tr>
<tr>
<td>CRC-10 Errors</td>
<td>Displays the number of cells discarded on this VPL with CRC 10 errors.</td>
</tr>
<tr>
<td>Other</td>
<td>Displays the number of OAM cells that are received but not identified.</td>
</tr>
</tbody>
</table>

Sample Output

A:ALA-1# show port 1/1/2 atm pvc 0/500 detail

ATM Endpoint

<table>
<thead>
<tr>
<th>Port Id</th>
<th>1/1/2</th>
<th>VPI/VCI</th>
<th>0/500</th>
</tr>
</thead>
<tbody>
<tr>
<td>Admin State</td>
<td>up</td>
<td>Oper state</td>
<td>down</td>
</tr>
<tr>
<td>OAM State</td>
<td>ETE-AIS</td>
<td>Encap Type</td>
<td>llc</td>
</tr>
<tr>
<td>Owner</td>
<td>SAP</td>
<td>AAL Type</td>
<td>AAL-5</td>
</tr>
<tr>
<td>Endpoint Type</td>
<td>PVC</td>
<td>Cast Type</td>
<td>P2P</td>
</tr>
<tr>
<td>Ing. Td Idx</td>
<td>5</td>
<td>Egr. Td Idx</td>
<td>3</td>
</tr>
<tr>
<td>Last Changed</td>
<td>02/14/2007 14:15:12</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

ATM Statistics

<table>
<thead>
<tr>
<th>Input</th>
<th>Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>Octets</td>
<td>0</td>
</tr>
<tr>
<td>Cells</td>
<td>0</td>
</tr>
</tbody>
</table>

AAL-5 Packet Statistics

<table>
<thead>
<tr>
<th>Input</th>
<th>Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>Packets</td>
<td>0</td>
</tr>
<tr>
<td>Dropped Packets</td>
<td>0</td>
</tr>
<tr>
<td>CRC-32 Errors</td>
<td>0</td>
</tr>
<tr>
<td>Reassembly Timeouts</td>
<td>0</td>
</tr>
</tbody>
</table>

ATM OAM Statistics

<table>
<thead>
<tr>
<th>Input</th>
<th>Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIS</td>
<td>0</td>
</tr>
<tr>
<td>RDI</td>
<td>0</td>
</tr>
<tr>
<td>Loopback</td>
<td>0</td>
</tr>
<tr>
<td>CRC-10 Errors</td>
<td>0</td>
</tr>
<tr>
<td>Other</td>
<td>0</td>
</tr>
</tbody>
</table>

A:ALA-1#