

# 11 ATM Service Commands

The following chapter contains information on Text-Based ATM service commands. Topics include:

- LANE Client (Ethernet and Token Ring) - enables devices on legacy Ethernet- and Token Ring-based LANs to communicate over ATM networks. FDDI services can be supported over either topology by performing appropriate packet translations.
- ATM Trunking - enables Groups and VLANs to be extended across an ATM backbone network.
- Classical IP Routing (RFC 1577) - provides connectivity between IP-based networks via an ATM backbone network.
- Point to Point Bridging - enables two groups to communicate across an ATM network using a single virtual circuit (VC).
- VLAN Clusters - enables mesh-interconnection of point-to-point and point-to-multipoint virtual circuits.

## ◆ Syntax Note ◆

All ATM service command prefixes include a service ID that you must enter in order for the command to work properly.

Refer to the command task list below to find the page number for a specific task. If you would like to reference configuration tasks based on traditional UI commands, refer to Appendix A.

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## PTOP Service Commands

Point-to-point bridging is an ATM service that enables two groups to communicate across an ATM network using a single virtual circuit (VC). The VC can be configured to be a Switch Virtual Circuit (SVC) or a Permanent Virtual Circuit (PVC).

### atm service ptop

#### Command Usage

Create a PTOP (Point-to-Point) Bridging Service.

#### Syntax Options

```
atm service <slot/port> <servId> ptop [member [of] [group] <group#> [pvc] <connId>
```

```
atm service <slot/port> <servId> ptop [member [of] [group] <group#> [svc] <atmAddr>
```

#### Definitions:

*slot/port* = specifies the slot/port for the service you want to create

*servId* = specifies the description or number (4-30 characters) for the service (e.g., **PTOP1**). Service description strings with spaces must be enclosed in quotations (e.g., **"PTOP Bridging Service 1"**)

#### ♦ Syntax Note ♦

You must enter a service ID in order for the command to work properly.

**member of group** = optional command syntax

*group#* = specifies the number of the group that is to be a part of the PTOP service

**pvc** = optional command syntax, specifies PVC (Permanent Virtual Circuit) connection type

*connId* = specifies connection id (0 to 1024) for the PVC service

**svc** = optional command syntax, specifies SVC (Switched Virtual Circuit) connection type

*atmAddr* = specifies an ATM address (40 hex characters) for the the SVC service

#### Command Examples:

```
atm service 3/1 "Ptop Bridging Service 1" ptop member of group 1 pvc 50
```

```
atm service 3/1 "Ptop Bridging Service 1" ptop member of 1 pvc 50
```

```
atm service 3/1 "Ptop Bridging Service 1" ptop member 1 pvc 50
```

```
atm service 3/1 "Ptop Bridging Service 1" ptop 1 pvc 50
```

```
atm service 5/2 PTOP5 ptop 2 svc 4700790000000000000000000000A03E00000100
```

#### Corresponding UI Command

cas

**no atm service****Command Usage**

Remove a PTOP Bridging service.

**Syntax Options**

**no atm service** *<slot/port>* *<servId>*

Definitions:

*slot/port* = specifies the slot/port for the service you want to remove

*servId* = specifies the service description or number for the PTOP service you want to remove (e.g., **"PTOP Bridging Service 1"**)

Examples:

**no atm service 3/1 "PTOP Bridging Service 1"**

**no atm service 3/1 PTOP5**

**Corresponding UI Command**

**das**

### atm service bandwidth

#### Command Usage

Modify a bandwidth group for a PTOP service.

#### Syntax Options

```
atm service <slot/port> <servId> bandwidth [group] <group>
```

##### Definitions:

*slot/port* = specifies the slot/port for the service you want to modify

*servId* = specifies the service description or number for the PTOP service you want to modify (e.g., “**PTOP Bridging Service 1**”)

**group** = optional command syntax

*group* = specifies the group number of the PTOP service you want to modify

##### Examples:

```
atm service 3/1 PTOP5 bandwidth group 5
```

```
atm service 3/1 PTOP5 bandwidth 5  
bandwidth 5
```

#### Corresponding UI Command

mas

**atm service member****Command Usage**

Modify a group member for a PTOP service.

**Syntax Options**

**atm service** *<slot/port>* *<servId>* **member** [of] [group] *<group>*

Definitions:

*slot/port* = specifies the slot/port for the service you want to modify

*servId* = specifies the service description or number for the PTOP service you want to modify (e.g., “PTOP Bridging Service 1”)

**of group** = optional command syntax

*group* = the group number to which the member you want to modify belongs

Examples:

**atm service 3/1 “PTOP Bridging Service 1” member of group 1**

**atm service 3/1 “PTOP Bridging Service 1” member 1**  
**member 1**

**Corresponding UI Command**

**mas**

### atm service pvc

#### Command Usage

Modify the PVC (Permanent Virtual Circuit) connection for a PTOp service.

#### Syntax Options

```
atm service <slot/port> <servId> pvc <connId>
```

##### Definitions:

*slot/port* = specifies the slot/port for the service you want to modify

*servId* = specifies the service description or number for the PTOp service you want to modify (e.g., **"PTOP Bridging Service 1"**)

*connId* = specifies the connection ID for the PVC service

##### Examples:

```
atm service 3/1 "PTOP Bridging Service 1" pvc 50  
pvc 50
```

#### Corresponding UI Command

**mas**

**atm service svc****Command Usage**

Modify the SVC (Switched Virtual Circuit) connection for a PTOP service.

**Syntax Options**

**atm service** *<slot/port>* *<servId>* **svc** *<atmAddress>*

Definitions:

*slot/port* = specifies the slot/port for the service you want to modify

*servId* = specifies the service description or number for the PTOP service you want to modify (e.g., “**PTOP Bridging Service 1**”)

*atmAddress* = specifies the ATM address for the SVC service

Examples:

**atm service 3/1 PTOP5 svc 4700790000000000000000000000A03E00000100**

**svc 4700790000000000000000000000A03E00000100**

**Corresponding UI Command**

**mas**

### atm service encapsulation

#### Command Usage

Modify the encapsulation type for a PTOP service.

#### Syntax Options

```
atm service <slot/port> <servId> encapsulation {private | rfc1483}
```

##### Definitions:

*slot/port* = specifies the slot/port for the service you want to modify

*servId* = specifies the service description or number for the PTOP service you want to modify (e.g., “PTOP Bridging Service 1”)

**private** = a vendor-specific encapsulation format for ATM PTOP Bridging

**rfc1483** = an encapsulation format that enables interoperability with other vendor switches

##### Examples:

```
atm service 3/1 “PTOP Bridging Service 1” encapsulation private
```

```
atm service 3/1 “PTOP Bridging Service 1” encapsulation rfc1483  
encapsulation private
```

#### Corresponding UI Command

mas

#### Remarks

If you select rfc1483 encapsulation, you can only multiplex a single group across the switches in a cluster. A private encapsulation allows you to multiplex groups across switches in this cluster service.

**atm service status**

**Command Usage**

Modify the administrative status for a PTOp service.

**Syntax Options**

**atm service** *<slot/port>* *<servId>* **status {enable | disable}**

Definitions:

*slot/port* = specifies the slot/port for the service you want to modify

*servId* = specifies the service description or number for the PTOp service you want to modify (e.g., “PTOP Bridging Service 1”)

**enable** = enables the Administrative Status and puts the port online

**disable** = disables the Administrative Status and takes the port offline

Switch Default:

**enable**

Examples:

**atm service 3/1 “PTOP Bridging Service 1” status enable**  
**status enable**

**Corresponding UI Command**

**mas**

### atm service description

#### Command Usage

Modify the description for a PTOP service.

#### Syntax Options

**atm service** *<slot/port>* *<servId>* **description** *<descString>*

##### Definitions:

*slot/port* = specifies the slot/port for the service you want to modify

*servId* = specifies the service description or number for the PTOP service you want to modify (e.g., **PTOP1**)

*descString* = specifies the new service description or number (must be at least 4 characters). Service description strings with spaces must be enclosed in quotations (e.g., **"PTOP Bridging Service 1"**)

##### Examples:

**atm service 3/1 "PTOP Bridging Service 1" description PTOP5**  
**description PTOP5**

#### Corresponding UI Command

**mas**

## LANE Client Services Commands

In a LANE configuration, ATM stations become LECs to allow non-ATM devices on legacy Ethernet- and Token Ring-based LANs to communicate over ATM networks and support existing applications. Such a configuration is called an Emulated LAN, or ELAN. This ability to work with existing networking infrastructure makes it possible to plan for a gradual transition from legacy networks to an ATM-based network.

Because ATM is a connection-oriented technology, and Token Ring and Ethernet LANs are connectionless (i.e., based upon MAC addresses), you need some way of correlating ATM addresses to MAC addresses. This is one of the functions that LANE services provides. The ASM module supplies a LAN Emulation Client (LEC) function, not LANE Services (LES). The MSM of the switch provides LES.

An ELAN consists of the following components:

- **LANE Client (LEC):** An LEC is responsible for forwarding data and address resolution. This function is provided by an end-station ASM configured as a LANE Client.
- **LAN Emulation Configuration Server (LECS):** An LECS assigns clients to particular ELAN services. This function is usually provided by an MSS (Multiprotocol Switching Services)-type device.
- **LAN Emulation Server (LES):** The LES uses Address Resolution Protocol (ARP) to translate and map MAC addresses to ATM addresses. This service can be provided either by the LES functionality of the switch MPM, or an MSS-type device.

**Broadcast and Unknown Server (BUS):** The BUS handles initial unicast, multicast and broadcast traffic sent to it by the LEC. This service can be provided either by the BUS functionality of the switch MSM, or an MSS-type device.

## Token Ring vs. Ethernet Networks

Token Ring 802.5 LE clients perform the same functions as Ethernet 802.3 clients, with the following exceptions:

- For Token Ring LECs, MAC data frames are transmitted within an 802.5 ELAN type frame using an 802.5 frame format. For Ethernet LECs, MAC data frames are transmitted within an 802.3 ELAN type frame using an 802.3 frame format.
- Token Ring LE\_ARPs use a non-canonical MAC address format (i.e., the most significant bit of each address byte is transmitted first), whereas Ethernet LEC clients use a canonical format.
- Source-routed traffic is supported by Token Ring, but not by Ethernet LEC clients.

### Source-Routed Traffic

Source-routed traffic is handled by assigning a ring number to the ELAN and adding intelligence to the forwarding decision of the Token Ring LEC. The LEC examines frames for the next hop after the ELAN of which it is a member. With this information, the LEC can forward the frame to the correct next hop LEC. Knowledge of the next hop allows a LEC to avoid forwarding frames to all LECs on the ring—an action that would typically occur in traditional Token Ring networks.

From the perspective of the source routing logic and AutoTracker, a Token Ring LEC is treated like another Token Ring interface. For this reason, source routing commands, such as **STS** (Spanning Tree Statistics) and **stc** (Spanning Tree Configuration), may be used with Token Ring LECs.

Ethernet and Token Ring LECs cannot be directly connected. However, ELANs to which dissimilar LECs belong can be connected through the switch via translational bridging or routing.

**atm service****Command Usage**

Create a LANE Client service.

**Syntax Options**

```
atm service <slot/port> <servId> lane [member [of] [group]] <group#> [elan [name]] <elan_name>
[802.3 | 802.5]
```

Definitions:

*slot/port* = specifies the slot/port for the service you want to create

*servId* = specifies the description or number (between 4 and 30 characters) for the service (e.g., **LANE1**). Service description strings with spaces must be enclosed in quotations (e.g., "**LANE Client Service 1**")

**♦ Syntax Note ♦**

You must enter a service id in order for the command to work properly.

**member of group** = optional command syntax

*group#* = specifies the number of the group that is to be a part of the LANE service

**elan name** = optional command syntax

*elan\_name* = specifies the name (up to 32 characters) for the emulated LAN that the LEC either wants to join or has last joined

**802.3** = the elan type for ethernet

**802.5** = the elan type for token ring

Switch Default:

elan type = **802.3**

Examples:

```
atm service 5/1 "LAN Emulation Service 1" lane member of group 2 elan name ELAN1 802.5
```

```
atm service 5/1 "LAN Emulation Service 1" lane member of 2 elan ELAN1 802.3
```

```
atm service 5/1 "LAN Emulation Service 1" lane member 2 elan ELAN1 802.3
```

```
atm service 5/1 "LAN Emulation Service 1" lane 2 ELAN1 802.5
```

**Corresponding UI Command**

**cas**

### no atm service

#### Command Usage

Remove a LANE Client Service.

#### Syntax Options

**no atm service** *<slot/port>* *<servId>*

##### Definitions:

*slot/port* = specifies the slot/port for the service you want to remove

*servId* = specifies the service description or number for the LANE Client service you want to remove (e.g., **"LAN Emulation Service 1"**)

##### Examples:

**no atm service 5/1 "LAN Emulation Service 1"**

#### Corresponding UI Command

**das**

**atm service member****Command Usage**

Modify a group member in a LANE Client Service.

**Syntax Options**

***atm service*** *<slot/port>* *<servId>* **member** [**of**] [**group**] *<group#>*

Definitions:

*slot/port* = specifies the slot/port for the service you want to modify

*servId* = specifies the service description or number for the LANE Client service you want to modify (e.g., “**LAN Emulation Service 1**”)

**of group** = optional command syntax

*group#* = specifies the group number to which the member you want to modify belongs

Examples:

**atm service 5/1 “LAN Emulation Service 1” member of group 6**

**atm service 5/1 “LAN Emulation Service 1” member 6**

**member 6**

**Corresponding UI Command**

**mas**

atm service lan type

Command Usage

Modify the type of LAN supported by the Lane Client.

Syntax Options

atm service <slot/port> <servId> lan type [802.3 | 802.5]

Definitions:  
slot/port = specifies the slot/port for the service you want to modify  
servId = specifies the service description or number for the LANE Client service you want to modify (e.g., “LAN Emulation Service 1”)  
802.3 = lan type for Ethernet clients  
802.5 = lan type for Token Ring clients

Switch Default:  
lan type = 802.3

Examples:  
atm service 5/1 “LAN Emulation Service 1” lan type 802.5  
lan type

Corresponding UI Command

mas

**atm service lecs****Command Usage**

Modify whether you want to enable the default address or specify another address for the LECS (LAN Emulation Configuration Server).

**Syntax Options**

```
atm service <slot/port> <servId> lecs [address] {default | address}
```

Definitions:

*slot/port* = specifies the slot/port for the service you want to modify

*servId* = specifies the service description or number for the LANE Client service you want to modify (e.g., “**LAN Emulation Service 1**”)

**address** = optional command syntax

**default** = enables default address for the LECS

*address* = specifies the 40-character hex address for the LECS

Examples:

```
atm service 5/1 “LAN Emulation Service 1” lecs address 4700790000000000000000000000A03E00000100
```

```
atm service 5/1 “LAN Emulation Service 1” lecs 4700790000000000000000000000A03E00000100
```

```
lecs 4700790000000000000000000000A03E00000100
```

```
atm service 5/1 “LAN Emulation Service 1” lecs address default
```

```
atm service 5/1 “LAN Emulation Service 1” lecs 4934567890000000000095
```

**Corresponding UI Command**

**mas**

### atm service description

#### Command Usage

Modify the description for a LANE Client service.

#### Syntax Options

**atm service <slot/port> <servId> description <descString>**

##### Definitions:

*slot/port* = specifies the slot/port for the service you want to modify

*servId* = specifies the service description or number for the LANE Client service you want to modify (e.g., “**LAN Emulation Service 1**”)

*descString* = specifies the new service description or number for the LANE Client service

##### Examples:

**atm service 5/1 “LAN Emulation Service 1” description LANE2**  
**description LANE2**

#### Corresponding UI Command

**mas**

**atm service status****Command Usage**

Modify the administrative status for a LANE Client service.

**Syntax Options**

**atm service <slot/port> <servId> status [enable | disable]**

Definitions:

*slot/port* = specifies the slot/port for the service you want to modify

*servId* = specifies the service description or number for the LANE Client service you want to modify (e.g., “**LAN Emulation Service 1**”)

**enable** = enables the Administrative Status and puts the port online.

**disable** = disables the Administrative Status and takes the port offline

Switch Default:

admin. status = **enable**

Examples:

**atm service 5/1 “LAN Emulation Service 1” status disable**

**status disable**

**status enable**

**Corresponding UI Command**

**mas**

### atm service bandwidth

#### Command Usage

Modify a bandwidth group for a LANE Client service.

#### Syntax Options

```
atm service <slot/port> <servId> bandwidth [group] <group>
```

##### Definitions:

*slot/port* = specifies the slot/port for the service you want to modify

*servId* = specifies the service description or number for the LANE Client service you want to modify (e.g., “**LAN Emulation Service 2**” or **Lane2**)

**group** = optional command syntax

*group* = specifies the group number for the LANE Client service you want to modify

##### Examples:

**atm service 5/1 “LAN Emulation Service 1” bandwidth group 1**

**atm service 5/1 “LAN Emulation Service 1” bandwidth 1  
bandwidth 1**

#### Corresponding UI Command

**mas**

**atm service elan name****Command Usage**

Modify the emulated LAN name for a LANE Client service.

**Syntax Options**

**atm service** *<slot/port>* *<servId>* **elan name** *<name>*

Definitions:

*slot/port* = specifies the slot/port for the service you want to modify

*servId* = specifies the service description or number for the LANE Client service you want to modify (e.g., “**LAN Emulation Service 2**” or **Lane2**)

*name* = specifies the new emulated LAN name (up to 32 characters) for the LANE Client service

Examples:

**atm service 3/2 “LAN Emulation Service 2” elan name ELAN2**  
**elan name ELAN2**

**Corresponding UI Command**

**mas**

### atm service selector

#### Command Usage

Modify the last byte of the ATM address for a LANE Client service.

#### Syntax Options

```
atm service <slot/port> <servId> selector <selector>
```

##### Definitions:

*slot/port* = the slot/port for the service you want to modify

*servId* = the service description or number for the LANE Client service you want to modify (e.g., “**LAN Emulation Service 2**” or **Lane2**)

*selector* = specifies the new value for the last byte of the ATM address

##### Examples:

```
atm service 5/1 LANE2 selector 02  
selector 02
```

#### Corresponding UI Command

**mas**

**atm service proxy****Command Usage**

Modify the proxy status for a LANE Client.

**Syntax Options**

**atm service** *<slot/port>* *<servId>* **proxy** [enable | disable]

Definitions:

*slot/port* = specifies the slot/port for the service you want to modify

*servId* = specifies the service description or number for the LANE Client service you want to modify (e.g., “**LAN Emulation Service 2**” or **Lane2**)

**enable** = enables the proxy

**disable** = disables the proxy

Switch Default:

proxy status = **enable**

Examples:

**atm service 3/2 LANE2 proxy enable**

**proxy enable**

**Corresponding UI Command**

**mas**

atm service mtu

Command Usage

Modify the MTU (Maximum Transmission Unit) size for a LANE Client.

Syntax Options

atm service <slot/port> <servId> mtu {1516 | 4544 | 9234 | 18190}

Definitions:  
slot/port = specifies the slot/port for the service you want to modify  
servId = specifies the service description or number for the LANE Client service you want to modify (e.g., “LAN Emulation Service 2” or Lane2)  
1516 = specifies 1516 frames  
4544 = specifies 4544 frames  
9234 = specifies 9234 frames  
18190 = specifies 18190 frames

Examples:  
atm service 3/2 “LAN Emulation Service 2” mtu 1516  
mtu 4544

Corresponding UI Command

mas

Remarks

The MTU is a data frame that the LANE Client will send over the Multicast Send VCC, or receive on either the Multicast Send VCC or the Multicast Forward VCC.

## atm service translation options

### Command Usage

Modify the translation status for a LANE Client.

### Syntax Options

**atm service** *<slot/port>* *<servId>* **translation options** {enable | disable | on | off}

#### Definitions:

*slot/port* = specifies the slot/port for the service you want to modify

*servId* = specifies the service description or number for the LANE Client service you want to modify (e.g., “**LAN Emulation Service 2**” or **Lane2**)

**enable** = frame translations offered through the Switch menu will be used for this LANE Client

**disable** = Ethertype frames will be used for this LANE Client (for 802.3 clients only)

**on** = frame translations offered through the Switch menu will be used for this LANE Client

**off** = Ethertype frames will be used for this LANE Client (for 802.3 clients only)

#### Examples:

**atm service 5/1 LANE2 translation options enable**

**atm service 5/1 LANE2 translation options off**

**translation options off**

### Corresponding UI Command

mas

### atm service forward delay time

#### Command Usage

Modify the status of the forward delay time for the LANE Client.

#### Syntax Options

**atm service <slot/port> <servId> forward delay time {enable | disable | on | off}**

##### Definitions:

*slot/port* = specifies the slot/port for the service you want to modify

*servId* = specifies the service description or number for the LANE Client service you want to modify (e.g., “**LAN Emulation Service 2**” or **Lane2**)

**enable** = enables the LE Client to maintain, for the maximum time (in seconds), an entry for a non-local MAC address in its MAC table without verification

**disable** = disables the LE Client from maintaining, for the maximum time (in seconds), an entry for a non-local MAC address in its MAC table without verification

**on** = enables the LE Client to maintain, for the maximum time (in seconds), an entry for a non-local MAC address in its MAC table without verification

**off** = disables the LE Client from maintaining, for the maximum time (in seconds), an entry for a non-local MAC address in its MAC table without verification

##### Switch Default:

forward delay time status = **disable** or **off**

##### Examples:

**atm service 5/1 “LAN Emulation Service 2” forward delay time enable**

**atm service 5/1 “LAN Emulation Service 2” forward delay time on**

**atm service 5/1 “LAN Emulation Service 2” forward delay time off**

**forward delay time on**

#### Corresponding UI Command

**mas**

#### Remarks

The forward delay time is the time (in seconds) that a LANE Client will maintain an entry for a non-local MAC address in its MAC table without verification.

**atm service use Lecs****Command Usage**

Modify whether or not to use the LECS (LANE Emulation Configuration Server) for a LANE Client.

**Syntax Options**

**`atm service <slot/port> <servId> use Lecs {enable | disable | on | off}`**

Definitions:

*slot/port* = specifies the slot/port for the service you want to modify

*servId* = specifies the service description or number for the LANE Client service you want to modify (e.g., “**LAN Emulation Service 2**” or **Lane2**)

**enable** = enables the LANE Client to use the LANE Configuration Server

**disable** = disables the LANE Client from using the LANE Configuration Server

**on** = enables the LANE Client to use the LANE Configuration Server

**off** = disables the LANE Client from using the LANE Configuration Server

Switch Defaults:

use Lecs = **enable** or **on**

Examples:

**atm service 5/1 LANE2 use Lecs disable**

**atm service 5/1 LANE2 use Lecs on**

**atm service 5/1 LANE2 use Lecs off**

**use Lecs off**

**Corresponding UI Command**

**mas**

### atm service control timeout

#### Command Usage

Modify the timeout period (in seconds) used for most request/response control frame interactions within a LANE Client.

#### Syntax Options

```
atm service <slot/port> <servId> control timeout <time>
```

##### Definitions:

*slot/port* = specifies the slot/port for the service you want to modify

*servId* = specifies the service description or number for the LANE Client service you want to modify (e.g., “**LAN Emulation Service 2**” or **Lane2**)

*time* = specifies the timeout period in seconds (can be between 20 and 300)

##### Switch Default:

*time* = **120**

##### Examples:

```
atm service 3/1 “LAN Emulation Service 2” control timeout 150  
control timeout 150
```

#### Corresponding UI Command

**mas**

**atm service maximum unknown frame count****Command Usage**

Modify the maximum number of frames the LANE Client can send to the BUS for a given unicast LAN Destination.

**Syntax Options**

***atm service* <slot/port> <servId> maximum unknown frame count <count>**

Definitions:

*slot/port* = specifies the slot/port for the service you want to modify

*servId* = specifies the service description or number for the LANE Client service you want to modify (e.g., “**LAN Emulation Service 2**” or **Lane2**)

*count* = specifies the the maximum number of frames within the Maximum Unknown Frame Time

Examples:

**atm service 3/1 “LAN Emulation Service 2” maximum unknown frame count 1**  
**maximum unknown frame count 1**

**Corresponding UI Command**

**mas**

**Remarks**

The maximum number of frames is for the length of time within the Maximum Unknown Frame Time (configured through the **atm service maximum unknown frame time** command on page 11-32).

### atm service maximum unknown frame time

#### Command Usage

Modify the length of time (in seconds) during which the LANE Client will send no more than the number of frames specified in Maximum Unknown Frame Count to the Bus for a given unicast LAN Destination. Also the maximum time the LANE Client will wait before it must initiate an ARP frame to resolve that LAN Destination.

#### Syntax Options

**atm service** *<slot/port>* *<servId>* **maximum unknown frame time** *<time>*

##### Definitions:

*slot/port* = the slot/port for the service you want to modify

*servId* = the service description or number for the LANE Client service you want to modify (e.g., “**LAN Emulation Service 2**” or **Lane2**)

*time* = specifies the time (in seconds) for the maximum unknown frame time (value must be between 1 and 60)

##### Switch Default:

*time* = 1

##### Examples:

**atm service 3/1 “LAN Emulation Service 2” maximum unknown frame time 50**  
**maximum unknown frame time 50**

#### Corresponding UI Command

mas

## atm service vcc timeout period

### Command Usage

Modify the maximum length of time (in minutes) that a LANE Client will keep a Data Direct VCC after it has not been used to transmit or receive frames.

### Syntax Options

**atm service** *<slot/port>* *<servId>* **vcc timeout period** *<vcc\_timeout>*

#### Definitions:

*slot/port* = specifies the slot/port for the service you want to modify

*servId* = specifies the service description or number for the LANE Client service you want to modify (e.g., “**LAN Emulation Service 2**” or **Lane2**)

*vcc\_timeout* = specifies the time (in minutes)

#### Switch Default:

*vcc\_timeout* = 20

#### Examples:

**atm service 3/1 “LAN Emulation Service 2” vcc timeout period 100**

**vcc timeout period 100**

### Corresponding UI Command

**mas**

### Remarks

This parameter is used only for SVC Data Direct VCCs.

### atm service maximum retry count

#### Command Usage

Modify the maximum number of times a LANE Client may retry an LE\_ARP\_REQUEST for a given frame's LAN Destination.

#### Syntax Options

**atm service** *<slot/port>* *<servId>* **maximum retry count** *<count>*

##### Definitions:

*slot/port* = specifies the slot/port for the service you want to modify

*servId* = specifies the service description or number for the LANE Client service you want to modify (e.g., “**LAN Emulation Service 2**” or **Lane2**)

*count* = specifies the number of times an LE Client may retry an LE\_ARP\_REQUEST (value must be between 0 and 2).

##### Switch Default:

*count* = **1**

##### Examples:

**atm service 3/1 LANE2 maximum retry count 2**

**maximum retry count 2**

#### Corresponding UI Command

**mas**

**atm service aging time****Command Usage**

Modify the maximum time (in seconds) that a LANE Client will maintain an entry in its LE\_ARP cache.

**Syntax Options**

***atm service <slot/port> <servId> aging time <time>***

Definitions:

*slot/port* = specifies the slot/port for the service you want to modify

*servId* = specifies the service description or number for the LANE Client service you want to modify (e.g., “**LAN Emulation Service 2**” or **Lane2**)

*time* = specifies the maximum time (in seconds) the LE Client will maintain an entry in its LE\_ARP cache

Switch Default:

*time* = **300**

Examples:

**atm service 3/1 LANE2 aging time 250**  
**aging time 250**

**Corresponding UI Command**

**mas**

**Remarks**

If you set the Forward Delay Time (through the **atm service forward delay time** command on page 11-28) to **enable** or **on**, then the aging time must be between 4 and 30 seconds. If Forward Delay Time is set to **disable** or **off**, then the aging time can be between 10 and 300 seconds.

If the address is not resolved within the aging time period, the entry is deleted from the LE\_ARP cache.

### atm service expected learp response time

#### Command Usage

Modify the maximum time (in seconds) the LANE Client expects an ARP request/response cycle to take. This parameter is used for retries and verifies.

#### Syntax Options

**atm service <slot/port> <servId> expected learp response time <time>**

##### Definitions:

*slot/port* = specifies the slot/port for the service you want to modify

*servId* = specifies the service description or number for the LANE Client service you want to modify (e.g., “**LAN Emulation Service 2**” or **Lane2**)

*time* = specifies the maximum time (in seconds) the LE Client expects an ARP request/response cycle to take (the value must be between 1 and 30)

##### Switch Default:

*time* = **30**

##### Examples:

**atm service 3/1 LANE2 expected learp response time 15**  
**expected learp response time 15**

#### Corresponding UI Command

**mas**

**atm service flush timeout****Command Usage**

Modify the length of time (in seconds) a LANE Client will wait for an LE\_FLUSH\_RESPONSE after sending an LE\_FLUSH\_REQUEST, after which it will begin taking recovery action.

**Syntax Options**

**atm service** *<slot/port>* *<servId>* **flush timeout** *<time>*

Definitions:

*slot/port* = specifies the slot/port for the service you want to modify

*servId* = specifies the service description or number for the LANE Client service you want to modify (e.g., “**LAN Emulation Service 2**” or **Lane2**)

*time* = specifies the maximum time (in seconds) the LE Client will wait for an LE\_FLUSH\_RESPONSE (value must be between 1 and 4)

Switch Default:

*time* = **4**

Examples:

**atm service 3/1 “LAN Emulation Service 2” flush timeout 3**  
**flush timeout 3**

**Corresponding UI Command**

**mas**

### atm service path switching delay

#### Command Usage

Modify the length of time (in seconds) the LANE Client will wait (after sending a frame to the BUS) before assuming the frame has either been delivered to the client or has been discarded.

#### Syntax Options

**atm service <slot/port> <servId> path switching delay <time>**

##### Definitions:

*slot/port* = specifies the slot/port for the service you want to modify

*servId* = specifies the service description or number for the LANE Client service you want to modify (e.g., “**LAN Emulation Service 2**” or **Lane2**)

*time* = specifies the maximum time (in seconds) the LE Client will wait before assuming the frame has either been delivered or discarded (value must be between 1 and 8)

##### Switch Default:

*time* = 6

##### Examples:

**atm service 3/1 “LAN Emulation Service 2” path switching delay 8**

**path switching delay 8**

#### Corresponding UI Command

**mas**

**atm service initial control timeout****Command Usage**

Modify the initial timeout value of all outstanding control request frames.

**Syntax Options**

**atm service *<slot/port>* *<servId>* initial control timeout *<time>***

Definitions:

*slot/port* = the slot/port for the service you want to modify

*servId* = the service description or number for the LANE Client service you want to modify (e.g., “**LAN Emulation Service 2**” or **Lane2**)

*time* = specifies the initial timeout value of all outstanding control request frames (value must be between 1 and 10 seconds)

Switch Default:

*time* = 5

Examples:

**atm service 3/1 LANE2 initial control timeout 9**

**initial control timeout 9**

**Corresponding UI Command**

**mas**

### atm service control timeout multiplier

#### Command Usage

Modify the time by which control timeout increases each iteration of any control timeout activity.

#### Syntax Options

```
atm service <slot/port> <servId> control timeout multiplier <number>
```

##### Definitions:

*slot/port* = the slot/port for the service you want to modify

*servId* = the service description or number for the LANE Client service you want to modify (e.g., “**LAN Emulation Service 2**” or **Lane2**)

*number* = the control timeout multiplier value in seconds (value must be between 2 and 5 seconds)

##### Switch Default:

*number* = 2

##### Examples:

```
atm service 3/1 LANE2 control timeout multiplier 2  
control timeout multiplier 2
```

#### Corresponding UI Command

**mas**

**atm service v2****Command Usage**

Modify whether or not to enable LUNI V2.0 capability.

**Syntax Options**

**atm service <slot/port> <servId> v2 {enable |disable}**

Definitions:

*slot/port* = specifies the slot/port for the service you want to modify

*servId* = specifies the service description or number for the LANE Client service you want to modify (e.g., “**LAN Emulation Service 2**” or **Lane2**)

**enable** = enables the capability of LUNI V2.0

**disable** = disables LUNI V2.0

Examples:

**atm service 3/1 LANE2 v2 enable**  
**v2 enable**

**Corresponding UI Command**

**mas**

### atm service ring no

#### Command Usage

Modify the ring number assigned to the Token Ring for participation in source routing.

#### Syntax Options

```
atm service <slot/port> <servId> ring no<number>
```

##### Definitions:

*slot/port* = specifies the slot/port for the service you want to modify

*servId* = specifies the service description or number for the LANE Client service you want to modify (e.g., “**LAN Emulation Service 2**” or **Lane2**)

*number* = specifies the ring number assigned to the Token Ring for participation in source routing (value must be between 0 and 4095)

##### Examples:

```
atm service 3/1 LAN Emulation Service 2 ring no 3  
ring no 3
```

#### Corresponding UI Command

**mas**

#### Remarks

Note that this command is used only for 802.5 Token Ring clients (not for 802.3 Ethernet clients).

**atm service bridge no****Command Usage**

Modify the number used to identify the source routing bridge.

**Syntax Options**

**atm service** *<slot/port>* *<servId>* **bridge no** *<number>*

Definitions:

*slot/port* = specifies the slot/port for the service you want to modify

*servId* = specifies the service description or number for the LANE Client service you want to modify (e.g., “**LAN Emulation Service 2**” or **Lane2**)

*number* = specifies the number used to identify the source routing bridge (value must be between 1 and 15)

Examples:

**atm service 3/1 “LAN Emulation Service 2” bridge no 5 \**

**bridge no 5**

**Corresponding UI Command**

**mas**

**Remarks**

Note that this command is used only for 802.5 Token Ring clients (not for 802.3 Ethernet clients).

### atm service explorer frame exclude

#### Command Usage

Modify whether or not a specified LANE Client Service will receive token ring explorer frames other than those directed to one of its registered MAC addresses.

#### Syntax Options

```
atm service <slot/port> <servId> explorer frame exclude {enable | disable}
```

##### Definitions:

*slot/port* = specifies the slot/port for the service you want to modify

*servId* = specifies the service description or number for the LANE Client service you want to modify (e.g., “**LAN Emulation Service 2**” or **Lane2**)

**enable** = enables this LANE Client to receive token ring explorer frames other than those directed to one of its registered MAC addresses

**disable** = disables this LANE Client from receiving token ring explorer frames other than those directed to one of its registered MAC addresses

##### Examples:

```
atm service 3/1 “LAN Emulation Service 2” explorer frame exclude enable  
explorer frame exclude enable
```

#### Corresponding UI Command

**mas**

#### Remarks

The explorer frame exclude parameter only applies to token-ring ELANs.

## CIP (Classical IP) Service Commands

In classical IP (CIP) routing, ATM is used to interconnect ATM switches with IP-based ATM devices in a routed environment. ATM networks are configured as Logical IP Subnetworks (LISs). Communication between LIS-configured ATM networks is accomplished through the routing of Groups. A Group is created for routing CIP only. Each Group consists of a router port and its associated ATM CIP service.

### atm service cip

#### Command Usage

Create a Classical IP service.

#### Syntax Options

```
atm service cip <slot/port> <servId> cip [member [of] [group]] <group> [pvc] <connId>
atm service cip <slot/port> <servId> cip [member [of] [group]] <group> [svc] <atmAddr>
```

#### Definitions:

*slot/port* = specifies the slot/port for the service you want to create

*servId* = specifies the service description or number (must be at least 4 characters) for the CIP service you want to create (e.g., "Classical IP Service 2" or Classical2)

**member of group** = optional command syntax

*group* = specifies the number of the group that is to be a part of the CIP service

**pvc** = optional command syntax, sets up a Permanent Virtual Connection for this CIP service

*connId* = specifies connection id (0 to 1024) for the PVC service

**svc** = optional command syntax, sets up a Switched Virtual Connection for this CIP service

*atmAddr* = specifies an ATM address (40 hex characters) for the the SVC service

#### Examples:

```
atm service 5/1 Classical2 cip member of group 4 pvc 5
```

```
atm service 5/1 Classical2 cip member 4 pvc 5
```

```
atm service 5/1 "Classical IP Service 2" cip 4 svc 4700790000000000000000000000A03E00000100
```

#### Corresponding UI Command

cas

### no atm service

#### Command Usage

Remove a CIP service.

#### Syntax Options

**no atm service** *<slot/port>* *<servId>*

##### Definitions:

*slot/port* = specifies the slot/port for the service you want to remove

*servId* = specifies the service description or number for the PTOP service you want to remove (e.g., **Classical2**)

##### Examples:

**no atm service 5/1 Classical2**

#### Corresponding UI Command

das

**atm service bandwidth****Command Usage**

Modify a bandwidth group for a Classical IP Client service.

**Syntax Options**

```
atm service <slot/port> <servId> bandwidth [group] <group#>
```

Definitions:

*slot/port* = the slot/port for the service you want to modify

*servId* = the service description or number for the LANE Client service you want to modify (e.g., “**Classical IP Service 2**” or **Classical2**)

**group** = optional command syntax

*group#* = specifies the group number of the CIP service you want to modify

Examples:

```
atm service 4/2 Classical2 bandwidth group 1  
bandwidth group 1
```

**Corresponding UI Command**

**mas**

### atm service member

#### Command Usage

Modify a group member for a CIP service.

#### Syntax Options

**atm service** *<slot/port>* *<servId>* **member** [of] [group] *<group#>*

##### Definitions:

*slot/port* = the slot/port for the service you want to modify

*servId* = the service description or number for the LANE Client service you want to modify (e.g., “**Classical IP Service 2**” or **Classical2**)

**of group** = optional command syntax

*group#* = the group number to which the member you want to modify belongs

##### Examples:

**atm service 4/2 Classical2 member of group 2**

**atm service 4/2 Classical2 member 2**  
**member 2**

#### Corresponding UI Command

mas

**atm service pvc****Command Usage**

Modify the PVC (Permanent Virtual Circuit) connection for a CIP service.

**Syntax Options**

```
atm service <slot/port> <servId> pvc <connId>
```

Definitions:

*slot/port* = specifies the slot/port for the service you want to modify

*servId* = specifies the service description or number for the CIP service you want to modify (e.g., “**Classical IP Service 2**” or **Classical2**)

*connId* = specifies the connection ID for the PVC service

Examples:

```
atm service 4/2 Classical2 pvc 50  
pvc 50
```

**Corresponding UI Command**

**mas**

**Remarks**

Multiple connections can be added to a CIP service. The following is an example:

```
atm service 4/2 Classical2 pvc 50  
atm service 4/2 Classical2 pvc 55  
atm service 4/2 Classical2 pvc 60
```

The following is an example of how to remove one of the multiple connections from a CIP service:

```
atm service 4/2 Classical2 no pvc 60
```

### atm service svc

#### Command Usage

Modify the SVC (Switched Virtual Circuit) connection for a CIP service.

#### Syntax Options

```
view bridge <slot/port> <servId> svc <atmAddress>
```

##### Definitions:

*slot/port* = the slot/port for the service you want to modify

*servId* = the service description or number for the CIP service you want to modify (e.g., “**Classical IP Service 2**” or **Classical2**)

*atmAddress* = specifies the ATM address for the SVC service

##### Examples:

```
atm service 4/2 Classical2 svc 4700790000000000000000000000A03E00000100  
svc 4700790000000000000000000000A03E00000100
```

#### Corresponding UI Command

**mas**

#### Remarks

Multiple connections can be added to a CIP service. The following is an example:

```
atm service 4/2 Classical2 svc 4700790000000000000000000000A03E00000100  
atm service 4/2 Classical2 svc 1122000000000000000000000000000000000000  
atm service 4/2 Classical2 svc 4444000000000000000000000000000000000000
```

The following is an example of how to remove one of the multiple connections from a CIP service:

```
atm service 4/2 Classical2 no svc 4444000000000000000000000000000000000000
```

**atm service status****Command Usage**

Modify the administrative status for a CIP service.

**Syntax Options**

**view bridge <slot/port> <servId> status {enable | disable}**

Definitions:

*slot/port* = the slot/port for the service you want to modify

*servId* = the service description or number for the CIP Client service you want to modify (e.g., “**Classical IP Service 2**” or **Classical2**)

**enable** = enables the Administrative Status and puts the port online

**disable** = disables the Administrative Status and takes the port offline

Switch Default:

admin. status = **enable**

Examples:

**atm service 4/2 Classical2 status enable**

**status enable**

**Corresponding UI Command**

**mas**

### atm service description

#### Command Usage

Modify the description for a CIP service.

#### Syntax Options

```
view bridge <slot/port> <servId> description <descString>
```

##### Definitions:

*slot/port* = the slot/port for the service you want to modify

*servId* = the service description or number for the CIP Client service you want to modify (e.g., **Classical2**)

*descString* = specifies the new service description or number. Service description strings with spaces must be enclosed in quotations (e.g., "**Classical IP Service 2**")

##### Examples:

```
atm service 4/2 Classical2 description CIP2  
description CIP2
```

#### Corresponding UI Command

**mas**

**atm service selector****Command Usage**

Modify the last byte of the ATM address for a CIP service.

**Syntax Options**

**atm service** *<slot/port>* *<servId>* **selector** *<selector>*

Definitions:

*slot/port* = the slot/port for the service you want to modify

*servId* = the service description or number for the LANE Client service you want to modify (e.g., “**Classical IP Service 2**” or **Classical2**)

*selector* = specifies the new value for the last byte of the ATM address

Examples:

**atm service 4/2 Classical2 selector 02**  
**selector 02**

**Corresponding UI Command**

**mas**

# Trunking Service Commands

ATM Trunking is a service that allows Groups and VLANs to be extended across an ATM backbone network. This trunking service operates in a manner similar to Frame Relay Trunking.

## atm service trunking

### Command Usage

Create a Trunking service.

### Syntax Options

```
atm service <slot/port> <servId> trunking [member [of] [group]] <group_list> [pvc] <connId>
```

```
atm service <slot/port> <servId> trunking [member [of] [group]] <group_list> [svc] <atmAddr>
```

#### Definitions:

*slot/port* = specifies the slot/port for the service you want to create

*servId* = specifies the description or number (can be up to 30 characters) for the service (e.g., **Trunking1**). Service description strings with spaces must be enclosed in quotations (e.g., **"Trunking Service 1"**)

**member of group** = optional command syntax

*group\_list* = specifies the number of the group or groups that is to be a part of the Trunking service. If more than one group will be a part of this Trunking service, enclose the group list within quotes and separate group numbers with a space (e.g., "1 2 3 4 5 6 7"). The maximum number of groups is 15.

**pvc** = optional command syntax, specifies PVC (permanent virtual circuit) connection type

*connId* = specifies connection id (0 to 1024) for the PVC service

**svc** = optional command syntax, specifies SVC (switched virtual circuit) connection type

*atmAddr* = specifies an ATM address (40 hex characters) for the the SVC service. Must be a valid ATM address.

#### Examples:

```
atm service 4/2 "Trunking Service 1" trunking member of group 2 pvc 30
```

```
atm service 4/2 "Trunking Service 1" trunking 2 svc 470079000000000000000000000000A03E00000100
```

### Corresponding UI Command

cas

### Remarks

Multiple groups may be added to a Trunking service. The following is an example:

```
atm service 4/2 "Trunking Service 1" trunking member 2 pvc 30
```

```
atm service 4/2 "Trunking Service 1" trunking member 3
```

```
atm service 4/2 "Trunking Service 1" trunking member 5
```

**no atm service****Command Usage**

Remove a Trunking service.

**Syntax Options**

**no atm service** *<slot/port>* *<servId>*

Definitions:

*slot/port* = the slot/port for the service you want to remove

*servId* = the service description or number for the PTOP service you want to remove (e.g., **"Trunking Service 1"**)

Examples:

**no atm service 4/2 "Trunking Service 1"**

**Corresponding UI Command**

**das**

### atm service bandwidth

#### Command Usage

Modify a bandwidth group for a Trunking service.

#### Syntax Options

```
atm service <slot/port> <servId> bandwidth [group] <group>
```

##### Definitions:

*slot/port* = the slot/port for the service you want to modify

*servId* = the service description or number for the Trunking service you want to modify (e.g., “**Trunking Service 1**”)

**group** = optional command syntax

*group* = the bandwidth group number you want to modify

##### Examples:

```
atm service 4/2 “Trunking Service 1” bandwidth group 5
```

```
atm service 4/2 “Trunking Service 1” bandwidth 5
```

```
atm service bandwidth 5
```

#### Corresponding UI Command

mas

**atm service member****Command Usage**

Modify a group member for a Trunking service.

**Syntax Options**

**atm service** *<slot/port>* *<servId>* [**no**] **member** [**of**] [**group**] *<group>*

Definitions:

*slot/port* = the slot/port for the service you want to modify

*servId* = the service description or number for the Trunking service you want to modify (e.g., **“Trunking Service 1”**)

**no** = optional syntax command. Include this syntax if you want to *remove* a group from this Trunking service.

**of group** = optional command syntax

*group* = the group number to which the member you want to modify belongs

Examples:

**atm service 4/2 “Trunking Service 1” member of group 1**

**atm service 4/2 “Trunking Service 1” member 1**

**member 1**

**atm service 4/2 “Trunking Service 1” no member of group 1**

**no member 1**

**Corresponding UI Command**

**mas**

### atm service pvc

#### Command Usage

Modify the PVC (Permanent Virtual Circuit) connection for a Trunking service.

#### Syntax Options

```
atm service <slot/port> <servId> pvc <connId>
```

##### Definitions:

*slot/port* = the slot/port for the service you want to modify

*servId* = the service description or number for the Trunking service you want to modify (e.g., **“Trunking Service 1”**)

*connId* = the connection id for the PVC service

##### Examples:

```
atm service 4/2 “Trunking Service 1” pvc 20
```

```
pvc 20
```

#### Corresponding UI Command

**mas**

**atm service svc****Command Usage**

Modify the SVC (Switched Virtual Circuit) connection for a Trunking service.

**Syntax Options**

**atm service <slot/port> <servId> svc <atmAddress>**

Definitions:

*slot/port* = the slot/port for the service you want to modify

*servId* = the service description or number for the Trunking service you want to modify (e.g., **“Trunking Service 1”**)

*atmAddress* = the ATM address for the SVC service

Examples:

**atm service 4/2 “Trunking Service 1” svc 4700790000000000000000000000A03E00000100**

**svc 4700790000000000000000000000A03E00000100**

**Corresponding UI Command**

**mas**

### atm service status

#### Command Usage

Modify the administrative status for a Trunking service.

#### Syntax Options

**atm service** *<slot/port>* *<servId>* **status {enable | disable}**

##### Definitions:

*slot/port* = specifies the slot/port for the service you want to modify

*servId* = specifies the service description or number for the Trunking service you want to modify (e.g., “**Trunking Service 1**”)

**enable** = enables the Administrative Status and puts the port online

**disable** = disables the Administrative Status and takes the port offline

##### Switch Default:

admin. status = **enable**

##### Examples:

**atm service 4/2 “Trunking Service 1” status enable**

**status enable**

#### Corresponding UI Command

mas

**atm service description****Command Usage**

Modify the description for a Trunking service.

**Syntax Options**

**atm service** *<slot/port>* *<servId>* **description** *<descString>*

Definitions:

*slot/port* = specifies the slot/port for the service you want to modify

*servId* = specifies the service description or number for the Trunking service you want to modify (e.g., **"Trunking Service 1"**)

*descString* = specifies the new service description or number

Examples:

**atm service 4/2 "Trunking Service 1" description Trunking5**  
**description Trunking5**

**Corresponding UI Command**

**mas**

