

13 Circuit Emulation Commands

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

- Creating a circuit emulation connection
- Modifying a circuit emulation connection
- Removing a circuit emulation connection
- Modifying circuit emulation port parameters

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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Circuit Emulation Connection Commands

atm-ce connection

Command Usage

Create a circuit emulation connection on a T1/E1 or serial circuit emulation port. (You *cannot* configure circuit emulation on standard T1/E1 and serial ports.)

◆ Important Note ◆

You can configure only one (1) connection on a serial port.

Syntax Options

atm-ce connection <slot/port vci> [<outSlot/outPort>] [outVpi outVci] <timeSlotlist>

Definitions:

slot/port = specifies the incoming slot/port of the circuit emulation connection.
vci = specifies the incoming Virtual Channel Identifier (VCI) for the circuit emulation connection. (See the Remarks section on the following page for valid VCI ranges.)
outSlot/outPort = specifies the outgoing slot/port of the circuit emulation connection.

◆ Syntax Note ◆

The outVpi and outVci parameters are *not* used on ATM access circuit emulation ports.

outVpi = specifies the outgoing Virtual Path Identifier (VPI) for the circuit emulation connection. This parameter is only for T1/E1 ports on cell switching modules. In addition, it *must* be used with the outVci parameter described below.
outVci = specifies the outgoing Virtual Channel Identifier (VCI) for the circuit emulation connection. (See the Remarks section on the following page for valid VCI ranges.) This parameter is only for T1/E1 ports on cell switching modules. In addition, it *must* be used with the outVpi parameter described above.
timeSlotlist = specifies the time slot list for this connection (the valid range is 1-32). You can specify a single time slot (e.g., 2) a range of time slots (e.g., 13-18) or any combination of the two (e.g., 12, 13-17, 25, 32).

◆ Syntax Note ◆

You do *not* set time slot information on serial ports.

Command Examples:

atm-ce connection 4/1 258 5/2 7 290 11-15
5/2 7 290 11-15

Corresponding UI Command

ceadd

Remarks

See the tables below for valid VCI ranges.

Cell Switching T1/E1 CE Port Number *	ATM Access T1/E1 CE Port Number	Valid VCI Range
1	2	256–287
2	3	288–319
3	4	320–351
4	5	352–383

ATM Access Serial CE Port Number	Valid VCI Range
2 (T1 or E1)	256–287
3 (T1 or E1)	288–319
4 (Serial)	320–351
5 (Serial)	352–383

* The actual port number is based upon which slot position the board occupies, and whether other modules are installed. Port numbers increment from left to right.

atm-ce connection description

Command Usage

Modify the description of a circuit emulation connection.

Syntax Options

atm-ce connection *<slot/port vci>* description *<connId>*

Definitions:
slot/port = specifies the incoming slot/port of the circuit emulation connection.
vci = specifies the incoming Virtual Channel Identifier (VCI) for the circuit emulation connection. (See the tables on page 13-4 for valid VCI ranges.)
connId = specifies the description for this connection, which can be up to 30 characters long. Descriptions with spaces must be placed in quotes (e.g., **"Connection 1"**).

Command Examples:
atm-ce connection 4/1 258 description "Connection 1"
description "Connection 1"

Corresponding UI Command

cemodify, ceadd

atm-ce connection status

Command Usage

Enable or disable a circuit emulation connection.

Syntax Options

atm-ce connection <slot/port vci> status {up | down }

Definitions:

slot/port = specifies the incoming slot/port of the circuit emulation connection.

vci = specifies the incoming Virtual Channel Identifier (VCI) for the circuit emulation connection. (See the tables on page 13-4 for valid VCI ranges.)

up = enables the connection.

down = disables the connection.

Switch Default:

up | down = up

Command Examples:

atm-ce connection 4/1 258 status up
status up

Corresponding UI Command

cemodify, ceadd

Remarks

Enabling the circuit and allows data to be sent or received. If you disable the connection, no data can be sent on the connection. Disabling the connection is a good option to use when preconfiguring a virtual circuit in advance of live network operation.

atm-ce connection vpi**Command Usage**

Modify the incoming Virtual Path Identifier (VPI) of a circuit emulation connection.

Syntax Options

atm-ce connection <slot/port vci> vpi <vpi>

Definitions:

slot/port = specifies the incoming slot/port of the circuit emulation connection.

vci = specifies the incoming Virtual Channel Identifier (VCI) for the circuit emulation connection. (See the tables on page 13-4 for valid VCI ranges.)

vpi = specifies the incoming VPI for the connection.

Command Examples:

atm-ce connection 4/1 258 vpi 11
vpi 11

Corresponding UI Command

cemodify, ceadd

atm-ce connection cell fill count

Command Usage

Modify the partial cell fill count feature of a circuit emulation connection.

Syntax Options

atm-ce connection <slot/port vci> cell fill count <count>

Definitions:
slot/port = specifies the incoming slot/port of the circuit emulation connection.
vci = specifies the incoming Virtual Channel Identifier (VCI) for the circuit emulation connection. (See the tables on page 13-4 for valid VCI ranges.)
count = specifies the partial cell fill count for the connection.

♦ Syntax Note ♦
Setting the cell fill count to zero (0) will disable the cell fill count feature.

Switch Default:
count = 0 (i.e., disabled)

Command Examples:
atm-ce connection 4/1 258 cell fill count 5
cell fill count 5

Corresponding UI Command

cemodify, ceadd

atm-ce connection cell loss integration

Command Usage

Modify the cell loss integration time of a circuit emulation connection.

Syntax Options

atm-ce connection <slot/port vci> cell fill loss integration <number>

Definitions:

slot/port = specifies the incoming slot/port of the circuit emulation connection.

vci = specifies the incoming Virtual Channel Identifier (VCI) for the circuit emulation connection. (See the tables on page 13-4 for valid VCI ranges.)

number = specifies the time, in seconds, after which missing cells will be declared lost.

Command Examples:

atm-ce connection 4/1 258 cell loss integration 10
cell loss integration 10

Corresponding UI Command

cemodify, ceadd

Remarks

When cells are lost, the integration period begins. If cells are not recovered within this period, an internal variable will be set indicating that cells have been lost on this virtual circuit. This may affect statistics counters.

atm-ce connection cell delay variation tolerance

Command Usage

Modify the cell delay variation tolerance of a circuit emulation connection.

Syntax Options

atm-ce connection <slot/port vci> cell delay variation tolerance <number>

Definitions:

slot/port = specifies the incoming slot/port of the circuit emulation connection.

vci = specifies the incoming Virtual Channel Identifier (VCI) for the circuit emulation connection. (See the tables on page 13-4 for valid VCI ranges.)

number = specifies the cell delay variation of this virtual circuit in frame increments.

♦ Syntax Note ♦

The value you set here for the reassembly buffer *must* be less than the value for reassembly buffer size. (See page 13-12 for more information on setting this parameter.)

Command Examples:

atm-ce connection 4/1 258 cell delay variation tolerance10
cell delay variation tolerance 10

Corresponding UI Command

cemodify, ceadd

Remarks

One frame is defined as the size of the buffer that can store incoming data for up to time *T*. In structured mode, *T* equals 125 ms. In unstructured mode, a frame equals to 32 octets and the corresponding values for *T* are as follows:

- Unstructured T1 $T = 166 \text{ ms}$
- Unstructured E1 $T = 125 \text{ ms}$
- Unstructured serial port $T = 32 * 8 / \text{speed}$

atm-ce connection idle code

Command Usage

Modify the cell delay variation tolerance of a circuit emulation connection.

Syntax Options

atm-ce connection <slot/port vci> idle code <hex-value>

Definitions:

slot/port = specifies the incoming slot/port of the circuit emulation connection.

vci = specifies the incoming Virtual Channel Identifier (VCI) for the circuit emulation connection. (See the tables on page 13-4 for valid VCI ranges.)

hex-value = specifies the idle character sent to the circuit emulation interface or to the ATM uplink port.

♦ Syntax Note ♦

The valid range for the *hex-value* parameter is **0** to **ff**.

Command Examples:

atm-ce connection 4/1 258 idle code a0
idle code a0

Corresponding UI Command

cemodify, ceadd

Remarks

The idle character is sent to T1/E1 time slots or to a serial port if the reassembly buffer for this virtual circuit is underrun or overrun. If an alarm is present on the T1/E1 port or if there is a cable drop on the serial port, this idle character will be sent upstream through the ATM network.

atm-ce connection [reassemble] buffer

Command Usage

Modify the ATM reassembly buffer size of a circuit emulation connection.

Syntax Options

atm-ce connection <slot/port vci> [reassemble] buffer <size>

Definitions:

slot/port = specifies the incoming slot/port of the circuit emulation connection.

vci = specifies the incoming Virtual Channel Identifier (VCI) for the circuit emulation connection. (See the tables on page 13-4 for valid VCI ranges.)

reassemble = optional command syntax.

size = specifies the ATM reassembly buffer, in frames.

♦ Syntax Note ♦

The value you set here for the reassembly buffer *must* be greater than the value for cell delay variation tolerance. (See page 13-10 for more information on setting this parameter.)

Command Examples:

atm-ce connection 4/1 258 reassemble buffer 256

atm-ce connection 4/1 258 buffer 256
buffer 256

Corresponding UI Command

cemodify, ceadd

Remarks

This buffer is used by the AAL1 SAR to buffer incoming data on the ATM uplink port. Data in the buffer is later passed on to the appropriate T1/E1 or serial port. This buffer allows some flexibility in the transmission of data to legacy T1/E1 and serial ports due to cell delay variation on the ATM network.

In unstructured mode, a frame equals 32 octets (256 bits). In structured mode, a frame is the number of time slots assigned to this virtual circuit. So, if 5 time slots are assigned to this virtual circuit and this parameter is set to 50, the total buffer size for all time slots in the virtual circuit is 250 bytes (each of the 5 time slots uses 50 bytes).

atm-ce connection time slots

Command Usage

Add time slots to a circuit emulation connection.

◆ Note ◆

You *cannot* add time slots on an ATM access T1/E1 circuit emulation module.

Syntax Options

atm-ce connection <slot/port vci> time slots <timeSlotList>

Definitions:

slot/port = specifies the incoming slot/port of the circuit emulation connection.

vci = specifies the incoming Virtual Channel Identifier (VCI) for the circuit emulation connection. (See the tables on page 13-4 for valid VCI ranges.)

timeSlotList= specifies the time slot list to add for this connection (the valid range is 1-32). You can specify a single time slot (e.g., **2**) a range of time slots (e.g., **13-18**) or any combination of the two (e.g., **12, 13-17, 25, 32**).

Command Examples:

atm-ce connection 4/1 258 time slots 10

atm-ce connection 4/1 258 time slots 10-15

**atm-ce connection 4/1 258 time slots 10-15, 22
time slots 10-15, 22**

Corresponding UI Command

cemodify

atm-ce connection no time slots

Command Usage

Delete time slots from a circuit emulation connection.

◆ Note ◆

You *cannot* delete time slots on an ATM access T1/E1 circuit emulation module since these ports do not use them.

Syntax Options

atm-ce connection <slot/port vci> no time slots <timeSlotList>

Definitions:
slot/port = specifies the incoming slot/port of the circuit emulation connection.
vci = specifies the incoming Virtual Channel Identifier (VCI) for the circuit emulation connection. (See the tables on page 13-4 for valid VCI ranges.)
timeSlotList= specifies the time slot list to delete for this connection (the valid range is 1-32). You can specify a single time slot (e.g., 2) a range of time slots (e.g., 13-18) or any combination of the two (e.g., 12, 13-17, 25, 32).

Command Examples:
atm-ce connection 4/1 258 no time slots 10
atm-ce connection 4/1 258 no time slots 10-15
atm-ce connection 4/1 258 no time slots 10-15, 22
no time slots 10-15, 22

Corresponding UI Command

cemodify

atm-ce connection uplink vc

Command Usage

Modify the uplink port of a circuit emulation connection.

◆ Note ◆

You *cannot* configure the uplink port on an ATM access circuit emulation module.

Syntax Options

atm-ce connection <slot/port vci> uplink vc [outSlot/outPort] <outVpi outVci>

Definitions:

slot/port = specifies the incoming slot/port of the circuit emulation connection.
vci = specifies the incoming Virtual Channel Identifier (VCI) for the circuit emulation connection. (See the tables on page 13-4 for valid VCI ranges.)

◆ Syntax Note ◆

If you are modifying a Permanent Virtual Circuit (PVC), you *must* use the *outSlot* and *outPort* parameters. If you are modifying a Soft Permanent Virtual Circuit (SPVC), do *not* use the *outSlot* and *outPort* parameters.

outSlot = specifies the slot where input circuit emulation traffic will be transmitted.
outPort = specifies the port where input circuit emulation traffic will be transmitted.
outVpi = specifies the Virtual Path Identifier (VPI) where input circuit emulation traffic will be transmitted.
outVci = specifies the Virtual Channel Identifier (VCI) where input circuit emulation traffic will be transmitted.

Command Examples:

atm-ce connection 4/1 258 uplink vc 4/2 7 290
uplink vc 4/2 7 290

Corresponding UI Command

cemodify, ceadd

atm-ce connection remote address

Command Usage

Modify the remote ATM address of a circuit emulation connection.

◆ Note ◆

You *cannot* configure the remote ATM address on an ATM access circuit emulation module.

Syntax Options

atm-ce connection <slot/port vci> remote address <*atm-address*>

Definitions:

slot/port = specifies the incoming slot/port of the circuit emulation connection.

vci = specifies the incoming Virtual Channel Identifier (VCI) for the circuit emulation connection. (See the tables on page 13-4 for valid VCI ranges.)

atm-address = specifies the 40-character (hexadecimal) remote ATM address.

Command Examples:

atm-ce connection 4/1 258 remote address 3903488001bc900001000100010020da7e79cdc2
remote address 3903488001bc900001000100010020da7e79cdc2

Corresponding UI Command

cemodify, ceadd

atm-ce connection retry time

Command Usage

Modify the retry limit of a circuit emulation connection.

◆ Note ◆

You *cannot* configure the retry time on an ATM access circuit emulation module.

Syntax Options

atm-ce connection <slot/port vci> retry time <time>

Definitions:

slot/port = specifies the incoming slot/port of the circuit emulation connection.
vci = specifies the incoming Virtual Channel Identifier (VCI) for the circuit emulation connection. (See the tables on page 13-4 for valid VCI ranges.)
time = specifies the mount of time (in intervals of one-tenth seconds) between call attempts after an attempt has failed.

◆ Syntax Note ◆

If this value is set to 0, no retry is attempted.

Command Examples:

atm-ce connection 4/1 258 retry time 10
retry time 10

Corresponding UI Command

cemodify, ceadd

atm-ce connection retry limit

Command Usage

Modify the retry limit of a circuit emulation connection.

◆ Note ◆

You *cannot* configure the retry limit on an ATM access circuit emulation module.

Syntax Options

atm-ce connection <slot/port vci> retry limit <limit>

Definitions:

slot/port = specifies the incoming slot/port of the circuit emulation connection.

vci = specifies the incoming Virtual Channel Identifier (VCI) for the circuit emulation connection. (See the tables on page 13-4 for valid VCI ranges.)

limit = specifies the maximum number of unsuccessful call attempts allowed before the attempt to establish a connection is abandoned.

◆ Syntax Note ◆

If this value is set to 0, then setup attempts continue until the connection is set up successfully.

Command Examples:

atm-ce connection 4/1 258 retry limit 1000
retry limit 1000

Corresponding UI Command

cemodify, ceadd

atm-ce connection restart

Command Usage

Modify whether you want to retry a connection based on the retry time (described on page 13-17) and retry limit (described on page 13-18) parameters.

◆ Note ◆

You *cannot* use this option on an ATM access circuit emulation module.

Syntax Options

atm-ce connection <slot/port vci> restart {enable | disable}

Definitions:

slot/port = specifies the incoming slot/port of the circuit emulation connection.

vci = specifies the incoming Virtual Channel Identifier (VCI) for the circuit emulation connection. (See the tables on page 13-4 for valid VCI ranges.)

enable = enables the connection retry setting.

disable = disable the connection retry setting.

Switch Default:

disable

Command Examples:

atm-ce connection 4/1 258 restart enable

atm-ce connection 4/1 258 restart disable
restart disable

Corresponding UI Command

cemodify, ceadd

Remarks

If an attempt of an connection fails for any reason, this option resets the statistics governing retries so that a second attempt can be made. If this parameter has been enabled, when a connection fails a new attempt is made based on the information set in the retry time parameter (described on page 13-17) and retry limit parameter (described on page 13-18) as if the failed attempt had not occurred. If this parameter has been enabled, then the values set in the retry interval and retry limit are followed and there are no further attempts to make this connection.

atm-ce connection signaling code

Command Usage

Modify the signaling code for a circuit emulation connection.

Syntax Options

atm-ce connection <slot/port vci> signaling code <hex-value>

Definitions:

slot/port = specifies the incoming slot/port of the circuit emulation connection.

vci = specifies the incoming Virtual Channel Identifier (VCI) for the circuit emulation connection. (See the tables on page 13-4 for valid VCI ranges.)

hex-value = specifies the signaling code (in hexadecimal) to be sent to attached and far-end equipment in case of alarms or receive cell starvation overflow.

♦ Syntax Note ♦

The valid range for the *hex-value* parameter is **0** to **f**.

Command Examples:

atm-ce connection 4/1 258 signaling code f
signaling code f

Corresponding UI Command

cemodify, ceadd

Remarks

Signaling code is used to carry signaling state information (e.g., on-hook, off-hook, ringing). Signaling bits are composed of four (4) bits for T1 Extended Superframe (ESF) and E1 Multi-frame (MF) or two (2) bits for T1 Superframe (SF).

no atm-ce connection**Command Usage**

Remove a circuit emulation connection.

Syntax Options

no atm-ce connection <slot/port vci>

Definitions:

slot/port = specifies the incoming slot/port of the circuit emulation connection.

vci = specifies the incoming Virtual Channel Identifier (VCI) for the circuit emulation connection. (See the tables on page 13-4 for valid VCI ranges.)

Command Examples:

no atm-ce connection 4/1 258

no atm-ce connection

Corresponding UI Command

cedelete

Circuit Emulation Port Commands

atm-ce port description

Command Usage

Modify the description for a circuit emulation port.

Syntax Options

```
atm-ce port <slot/port> description <portId>
```

Definitions:

slot/port = specifies the incoming slot/port of the circuit emulation connection.

portId = specifies the description for this port, which can be up to 30 characters long. Descriptions with spaces must be placed in quotes (e.g., **"Port 1"**).

Command Examples:

```
atm-ce port 4/1 description "Port 1"  
description "Port 1"
```

Corresponding UI Command

cemodify

atm-ce port status**Command Usage**

Enable or disable a circuit emulation port.

Syntax Options

`atm-ce port <slot/port> status {up | down}`

Definitions:

slot/port = specifies the incoming slot/port of the circuit emulation connection.

up = enables the port.

down = enables the port.

Command Examples:

atm-ce port 4/1 status up

status up

Corresponding UI Command

cemodify

atm-ce port dce clock speed

Command Usage

Modify the data rate for a serial circuit emulation port acting as a Data Communications Equipment (DCE) device.

◆ Note ◆

You can only use this option on a serial circuit emulation port on an ATM access module.

Syntax Options

`atm-ce port <slot/port> dce clock speed <bps-rate>`

Definitions:

slot/port = specifies the incoming slot/port of the circuit emulation connection.

bps-rate = specifies the data rate (in BPS) for the serial circuit emulation port, which can be one of the following values.

- 56000
- 64000
- 128000
- 256000
- 384000
- 512000
- 768000
- 1024000
- 1536000
- 1544000
- 2048000

Command Examples:

`atm-ce port 4/1 dce clock speed 384000`
`dce clock speed 384000`

Corresponding UI Command

`cemodify`

atm-ce port dce clock source

Command Usage

Modify the clock source for a serial circuit emulation port acting as a Data Communications Equipment (DCE) device.

◆ Note ◆

You can only use this option on a serial circuit emulation port on an ATM access module.

Syntax Options

atm-ce port <slot/port> dce clock source {internal | split}

Definitions:

slot/port = specifies the incoming slot/port of the circuit emulation connection.

internal = specifies an internal clock source (i.e., transmit and receive data are based on the local clock).

split = specifies additional control signals (TXCE) to keep the serial circuit emulation port and external Data Terminal Equipment (DTE) device in sync.

Switch Default:

internal | split = internal

Command Examples:

atm-ce port 4/1 dce clock source split
dce clock source split

Corresponding UI Command

cemodify

Remarks

Split clocking is recommended if the access rate of the serial connection is greater than 256 Kbps. If split clocking is not used at these data rates, data out-of-phase errors, aborts, or CRC errors may occur. In cases where split clocking cannot be used because the clock is not returned, inverted clocking may be required.

atm-ce port rx clock sample

Command Usage

Modify the receive (rx) clock sample for a serial circuit emulation port.

◆ Note ◆

You can only use this option on a serial circuit emulation port on an ATM access module.

Syntax Options

```
atm-ce port <slot/port> rx clock sample {inverted | non-inverted}
```

Definitions:

slot/port = specifies the incoming slot/port of the circuit emulation connection.

inverted = specifies that data is sample on the rising edge of the receive clock.

non-inverted = specifies that data is sample on the falling edge of the receive clock.

Switch Default:

inverted | non-inverted = non-inverted

Command Examples:

```
atm-ce port 4/1 rx clock sample inverted
```

```
rx clock sample inverted
```

Corresponding UI Command

cemodify

Remarks

Sampling data on the falling edge (**non-inverted**) is the appropriate option for most configurations. However, if the far-end is experiencing data errors due to a long cable, and therefore, propagation delay, you may need to invert the clock edge.

atm-ce port tx clock sample**Command Usage**

Modify the transmit (tx) clock sample for a serial circuit emulation port.

◆ Note ◆

You can only use this option on a serial circuit emulation port on an ATM access module.

Syntax Options

atm-ce port <slot/port> tx clock sample {inverted | non-inverted}

Definitions:

slot/port = specifies the incoming slot/port of the circuit emulation connection.

inverted = specifies that data is sample on the rising edge of the transmit clock.

non-inverted = specifies that data is sample on the falling edge of the transmit clock.

Switch Default:

inverted | non-inverted = non-inverted

Command Examples:

atm-ce port 4/1 tx clock sample inverted

tx clock sample inverted

Corresponding UI Command

cemodify

Remarks

Sampling data on the falling edge (**non-inverted**) is the appropriate option for most configurations. However, if the far-end is experiencing data errors due to a long cable, and therefore, propagation delay, you may need to invert the clock edge.

atm-ce port clock mode

Command Usage

Modify the clock mode for a circuit emulation port.

Syntax Options

atm-ce port <slot/port> clock mode {synchronous | srts | adaptive}

Definitions:

slot/port = specifies the incoming slot/port of the circuit emulation connection.

synchronous = specifies a synchronous clock mode.

srts = specifies a Synchronous Residual Time Stamp (SRTS) clock mode.

adaptive = specifies an adaptive clock mode.

♦ Syntax Note ♦

The **adaptive** option is *not* available on serial circuit emulation ports.

Switch Default:

synchronous | srts | adaptive = synchronous

Command Examples:

atm-ce port 4/1 clock mode srts
clock mode srts

Corresponding UI Command

cemodify

Remarks

When using a synchronous clock, the ATM network must be running on and provide a single master clock. Synchronous clocking is the most accurate form of clocking used with circuit emulation; it is the least prone to bit errors. On T1/E1 circuit emulation ports, synchronous clocking can be used with either structured or unstructured service modes. On serial circuit emulation ports, synchronous clocking is supported for all clock speeds.

Synchronous Residual Time Stamp (SRTS) clocking also requires a clock from the ATM network. However, the circuit emulation end system receives the clock provided from the device being serviced. On serial circuit emulation ports, SRTS clocking only operates at a clock speed of 1544000 or 2048000 bps.

atm-ce port service mode

Command Usage

Modify the mode to service data passing through this circuit emulation port.

◆ Note ◆

This option is *not* available on a serial circuit emulation port on an ATM access module.

Syntax Options

atm-ce port <slot/port> service mode {unstructured | structured}

Definitions:

slot/port = specifies the incoming slot/port of the circuit emulation connection.

unstructured = specifies an unstructured service mode.

structured = specifies a structured service mode.

Switch Default:

unstructured | structured = structured

Command Examples:

atm-ce port 4/1 service mode structured

service mode structured

Corresponding UI Command

cemodify

Remarks

In **unstructured** mode, this circuit emulation service port passes all bits, including framing bits, through to the ATM network; an entire T1 or E1 bit stream is assigned to a single virtual circuit. The input data stream is segmented into AAL1 cells without regard to any structure in the data stream or byte alignment between the data and the ATM cell payload. In **structured** mode, time slots are assigned to each virtual channel connection.

