



## Video-Related Commands

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This chapter documents video-related commands. All of the commands in this section apply to the Cisco MC3810. For information on how to configure video support on the Cisco MC3810, refer to the “Configuring Video Support” chapter in the *Voice, Video, and Home Applications Configuration Guide*.

### cbr

To configure the constant bit rate (CBR) for the ATM circuit emulation service (CES) for an ATM permanent virtual circuit (PVC) on the Cisco MC3810, use the **cbr** command. Use the **no** form of this command to restore the default.

```
cbr rate  
no cbr rate
```

### Syntax Description

<i>rate</i>	Constant bit rate (also known as the average cell rate) for ATM CES. The valid range for this command is from 56 to 10,000 kbps.
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### Default

0

### Command Mode

ATM virtual circuit configuration

### Usage Guidelines

This command first appeared in Cisco IOS Release 12.0.

This command applies to ATM configuration on the Cisco MC3810.

## Example

The following example configures the constant bit rate on ATM PVC 20 on the Cisco MC3810:

```
pvc 20
 cbr 56
```

## Related Commands

```
ces cell-loss-integration-period
ces clockmode synchronous
ces connect
ces initial-delay
ces max-buf-size
ces max-buf-size
ces partial-fill
ces service
encapsulation atm-ces
```

## ces cell-loss-integration-period

To set the circuit emulation service (CES) cell-loss integration period, use the **ces cell-loss-integration-period** interface configuration command. Use the **no** form of this command to delete the cell-loss integration period.

```
ces cell-loss-integration-period period
no ces cell-loss-integration-period period
```

## Syntax Description

<i>period</i>	Time in milliseconds for the cell loss integration period. Possible values are from 1 to MAXINT.
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## Default

2500

## Command Mode

Interface configuration

## Usage Guidelines

This command first appeared in Cisco IOS Release 11.3 MA.

This command applies to ATM configuration on the Cisco MC3810.

This command is supported on serial ports 0 and 1 with **encapsulation atm-ces**.

## Example

The following example configures the CES cell-loss integration period on serial port 0 to 1056:

```
interface serial 0
  ces cell-loss-integration-period 1056
```

## Related Commands

- cbr
- ces clockmode synchronous
- ces connect
- ces initial-delay
- ces max-buf-size
- ces partial-fill
- ces service
- encapsulation atm-ces

## ces clockmode synchronous

To configure the ATM CES synchronous clock mode, use the **ces clockmode synchronous** interface configuration command. Use the **no** form of this command to restore the default value.

```
ces clockmode synchronous
no ces clockmode synchronous
```

## Syntax Description

This command has no arguments or keywords.

## Default

Enabled

## Command Mode

Interface configuration

## Usage Guidelines

This command first appeared in Cisco IOS Release 11.3 MA.

This command applies to ATM configuration on the Cisco MC3810.

This command maps into the transmit clock source of the CBR interface. This command is supported on serial ports 0 and 1 when set for CES ATM encapsulation.

## Example

The following example sets the ATM CES clock to synchronous mode on serial port 0:

```
interface serial 0
  ces clockmode synchronous
```

## Related Commands

`encapsulation atm-ces`

## ces connect

To map the CES service to an ATM PVC on the Cisco MC3810, use the **ces connect** interface configuration command. Use the **no** form of this command to delete the CES map to the ATM PVC.

```
ces connect atm-interface pvc [name | [vpi/]vci]
no ces connect atm-interface pvc [name | [vpi/]vci]
```

## Syntax Description

<i>atm-interface</i>	Number of the ATM interface. The only valid option on the Cisco MC3810 is ATM0.
<i>pvc</i>	Specifies that the connection is to an ATM PVC.
<i>name</i>	(Optional) The name of the ATM PVC.
<i>vpi</i>	(Optional) The virtual path identifier value.
<i>vci</i>	(Optional) The virtual channel identifier value.

## Default

No ATM interface is defined.

## Command Mode

Interface configuration

## Usage Guidelines

This command first appeared in Cisco IOS Release 11.3 MA.

This command applies to ATM configuration on the Cisco MC3810.

This command is supported on serial ports 0 and 1. The ATM interface must be configured to **encapsulation atm-ces**, and the *vpi/vci* must be defined on the interface.

## Example

The following example maps the CES service to PVC 20 on ATM port 0:

```
ces connect atm0 pvc 20
```

## Related Commands

```
cbr
ces cell-loss-integration-period
ces clockmode synchronous
ces initial-delay
ces max-buf-size
ces partial-fill
ces service
encapsulation atm-ces
```

## ces initial-delay

To configure the size of the receive buffer of a CES circuit, use the **ces initial-delay** interface configuration command. Use the **no** form of this command to remove the initial-delay value.

```
ces initial-delay bytes
no ces initial-delay bytes
```

## Syntax Description

<i>bytes</i>	The size of the receive buffer of the CES circuit. The valid range is from 1 to 16,000 bytes. This command is used to accommodate cell jitter on the network. Bytes received from the ATM network are buffered by this amount before being sent to the CES port.
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## Default

4000 bytes

## Command Mode

Interface configuration

## Usage Guidelines

This command first appeared in Cisco IOS Release 11.3 MA.

This command applies to ATM configuration on the Cisco MC3810.

## Example

The following example configures the transmit buffer of the CES circuit to 8000 bytes:

```
ces initial-delay 8000
```

## Related Commands

```
ces cell-loss-integration-period
ces clockmode synchronous
ces connect
ces max-buf-size
ces partial-fill
ces service
```

## ces max-buf-size

To configure the transmit buffer of a CES circuit, use the **ces max-buf-size** interface configuration command. Use the **no** form of this command to delete the CES transmit buffer size.

```
ces max-buf-size size
```

```
no ces max-buf-size size
```

## Syntax Description

<i>size</i>	Maximum size of the transmit buffer for the CES. Possible values are from 80 to 1520. The default is 256.
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## Default

256

## Command Mode

Interface configuration

## Usage Guidelines

This command first appeared in Cisco IOS Release 11.3 MA.

This command applies to ATM configuration on the Cisco MC3810.

Using this command, incoming bytes received on a CES port are buffered by the amount configured, and transmitted to the AAL1 process as a block of data.

This command is supported on serial ports 0 and 1 when the **encapsulation atm-ces** command is enabled.

## Example

The following example configures the maximum CES reassembly buffer size to 1520:

```
ces max-buf-size 1520
```

## Related Commands

```
ces cell-loss-integration-period
ces clockmode synchronous
ces connect
ces initial-delay
ces partial-fill
ces service
```

## ces partial-fill

To configure the number of user octets per cell for the ATM CES, use the **ces partial-fill** interface configuration command. Use the **no** form of this command to delete the CES partial-fill value.

```
ces partial-fill octet
no ces partial-fill octet
```

## Syntax Description

<i>octet</i>	Number of user octets per cell for the CES. Possible values of octet range from 0 to 47. Setting this number to zero disables partial cell fill and causes all cells to be completely filled before they are sent.
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## Default

47

## Command Mode

Interface configuration

## Usage Guidelines

This command first appeared in Cisco IOS Release 11.3 MA.

This command applies to ATM configuration on the Cisco MC3810.

Setting the value of the **ces partial-fill** command to zero disables partial cell fill and causes all cells to be completely filled before they are sent. This command is supported on serial ports 0 and 1 when the **encapsulation atm-ces** command is enabled.

## Example

The following example sets the CES partial cell fill to 20 octets per cell for serial port 0:

```
interface serial 0
  ces partial-fill 20
```

## Related Commands

- ces cell-loss-integration-period
- ces clockmode synchronous
- ces connect
- ces initial-delay
- ces max-buf-size
- ces service

## ces service

To configure the ATM circuit emulation service (CES) type, use the **ces service** interface configuration command. Use the **no** form of this command to stop the ATM CES service type.

- ces service structured
- no ces service structured

## Syntax Description

<b>structured</b>	Specifies that the ATM CES type is structured. Structured is the only option supported in this release.
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## Default

Structured

## Command Mode

Interface configuration

## Usage Guidelines

This command first appeared in Cisco IOS Release 11.3 MA.

This command applies to ATM configuration on the Cisco MC3810.

This command is supported on serial ports 0 and 1 when the **encapsulation atm-ces** command is enabled.

## Example

The following example sets the CES service to structured for serial port 0:

```
interface serial 0
  ces service structured
```

## Related Commands

- ces cell-loss-integration-period
- ces clockmode synchronous
- ces connect
- ces initial-delay
- ces max-buf-size
- ces partial-fill

## encapsulation atm-ces

To enable CES ATM encapsulation on the Cisco MC3810, use the **encapsulation atm-ces** interface configuration command. Use the **no** form of this command to disable CES ATM encapsulation.

```
encapsulation atm-ces
no encapsulation atm-ces
```

## Syntax Description

This command has no arguments or keywords.

## Default

No default

## Command Mode

Interface configuration

## Usage Guidelines

This command first appeared in Cisco IOS Release 11.3 MA.

This command applies to ATM configuration on the Cisco MC3810.

This command is only supported on serial ports 0 and 1.

## Example

The following example enables CES ATM encapsulation on serial port 0 on the Cisco MC3810:

```
interface serial 0
  encapsulation atm-ces
```

## Related Commands

- ces cell-loss-integration-period
- ces clockmode synchronous
- ces connect
- ces initial-delay
- ces max-buf-size
- ces partial-fill
- ces service