Controllers STSn Command Reference

This chapter describes the commands to configure the STSn controller.

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controller (sts)

To configure an STSn controller, use the **controller** command in the config mode. To delete an STSn controller, use the **no** form of this command.

controller sts*n R/S/I/P*

no controller sts*n R/S/I/P*

Syntax Description

stsn	Configures an STSn controller. The range of n is from 48c to 192c.
R/S/I/P	Displays the Rack/Slot/Instance/Port of the controller.

Command Default

None

send : (2)

expected : (2)

receive : (2)

Command Modes

Config mode

Command History

Release	Modification
Release 5.2.4	This command was introduced.

Usage Guidelines

To use this command, you must be in a user group associated with a task group that includes appropriate task IDs. If the user group assignment is preventing you from using a command, contact your AAA administrator for assistance.

Task ID

Task ID	Operation
sonet-sdh	write

Example

This example shows how to access the interface instance of an sts48c controller on port1:

```
RP/0/RP0:hostname(config)# controller sts-48c 0/0/0/1
```

overhead j1

To configure overhead value of an STSn controller, use the **overhead j1** command in the config mode. To delete the overhead value of an STSn controller, use the **no** form of this command.

overhead j1 {**send** | **expected**} [**16Bytes** | **64Bytes**] *value*

no overhead j1 {**expected**}

Syntax Description

send	Configures the transmitted trace identifier of the STSn controller.
expected	Configures the expected trace identifier of the STSn controller.
16Bytes	Configures the 16 bytes path trace for the STSn controller.
64Bytes	Configures the 64 bytes path trace for the STSn controller.
value	Enters the ASCII text for the STSn controller.

Command Default

2 stands 64 byte mode

Command Modes

Config mode

Command History

Release	Modification
Release 5.2.4	This command was introduced.

Usage Guidelines

To use this command, you must be in a user group associated with a task group that includes appropriate task IDs. If the user group assignment is preventing you from using a command, contact your AAA administrator for assistance.

Task ID

Task ID	Operation
sonet-sdh	write

Example

This example shows how to configure the overhead j1 value of the STS48c controller:

```
RP/0/RP0:hostname(config)# controller sts-48c 0/0/0/1
RP/0/RP0:hostname(config-sts48c)# overhead j1 expected 64Bytes abxc
```

pm (sts)

To configure the pm parameters of an STSn controller, use the **pm** command in the config mode. To delete the pm parameters of an STSn controller, use the **no** form of this command.

pm [**15-min** | **24-hour**] {**sts**} [**report** *status* | **threshold** *value*]

no pm [**15-min** | **24-hour**] {**sts**} [**report** *status* | **threshold** *value*]

Syntax Description

15 min	Configures the 15 minute time interval for the PM parameters.
24-hour	Configures the 24 hour time interval for the PM parameters.
sts	Displays the name of the layer.
report	Configures the TCA reporting status of the controller.
status	Configures the reporting status of the controller.
threshold	Configures threshold on the controller.
value	Configures the threshold value of the controller.

Command Default

Enable

Command Modes

Config mode

Command History

Release	Modification
Release 5.2.4	This command was introduced.

Usage Guidelines

To use this command, you must be in a user group associated with a task group that includes appropriate task IDs. If the user group assignment is preventing you from using a command, contact your AAA administrator for assistance.

Task ID

Task ID	Operation
sonet-sdh	write

The following example shows how to specify the 15 min PM interval for the STS controller and set threshold value for the layer:

```
RP/0/RP0:hostname(config)# controller sts-48c 0/0/0/1
RP/0/RP0:hostname(config-sts48c)# pm 15-min sts threshold cv-p 30
```

show controllers (sts)

To display all the details of an STSn controller, use the **show controllers** command in the exec mode.

show controllers sts*n R/S/I/P*

Syntax Description

stsn	Displays the name of the STSn controller.
R/S/I/P	Displays the Rack/Slot/Instance/Port of the controller.

Command Modes

Exec mode

Command History

Release	Modification
Release 5.2.4	This command was introduced.

Usage Guidelines

To use this command, you must be in a user group associated with a task group that includes appropriate task IDs. If the user group assignment is preventing you from using a command, contact your AAA administrator for assistance.

Task ID

Task ID	Operation
sonet-sdh	read

Example

This example shows how to display the details of an STS48c controller:

```
RP/0/RP0:hostname # show controllers sts48c 0/0/0/1
```

```
  Primary State: Down

Sec Admin State: Normal

Derived State: In Service

PATH
  FEBE   = 0          BIP(B3) = 0
  NEWPTR = 0          PSE    = 0          NSE  = 0
Detected Alarms:       None

Mask for Detected->Asserted:      None

Detected Alerts: None
Mask for Detected->Reported: None
Payload Scrambling: Disabled
C2 State: Stable   C2_rx = 0x0 (0)   C2_tx = 0x0 (0) / Scrambling Derived
B3 = 10e-6
Overhead J1
Transmit        : (2)
Received        : (2)
```

```
Expected        : (2)

 performace_monitoring enabled
============================================================
```

Note Run *do show controller stsn R/S/I/P* when command is executed in config mode.

threshold

To configure threshold for B3 bit error rate (BER) threshold crossing alert (TCA) on an STSn controller, use the **threshold** command in the config mode. To delete the threshold for B3 BER TCA from an STSn controller, use the **no** form of this command.

threshold [**b3-tca** *value*]

no threshold [**b3-tca** *value*]

Syntax Description

b3-tca	Configures the B3 BER threshold for the TCA on the STSn controller.
value	Configures the BER value. The valid range of BER is from 3 to 9. The default value is 6.

Command Default

None

Command Modes

Config mode

Command History

Release	Modification
Release 5.2.4	This command was introduced.

Usage Guidelines

To use this command, you must be in a user group associated with a task group that includes appropriate task IDs. If the user group assignment is preventing you from using a command, contact your AAA administrator for assistance.

Task ID

Task ID	Operation
sonet-sdh	write

Example

This example shows how to configure the threshold for B3 BER TCA on the STS48c controller:

```
RP/0/RP0:hostname(config)# controller sts-48c 0/0/0/1
RP/0/RP0:hostname(config-sts48c)# threshold b3-tca 7
```