

CISCO-SERVICE-CONTROL-LINK-MIB

- [CISCO-SERVICE-CONTROL-LINK-MIB Textual Conventions, page 2-1](#)
- [CISCO-SERVICE-CONTROL-LINK-MIB Objects, page 2-2](#)
- [CISCO-SERVICE-CONTROL-LINK-MIB Notifications, page 2-4](#)

The CISCO-SERVICE-CONTROL-LINK-MIB module provides information about the status and configuration of links used by service control entities. A link on a service control entity is a contained entity that joins a subscriber side port to a network side port.

A link is an entity with an entry in the *entPhysicalTable* of the ENTITY-MIB as follows:

- *entPhysicalClass* = **other**
- It is contained in entity 'chassis' or 'module'
- It contains entities of *entPhysicalClass* 'port', with a minimum of one subscriber side port entity and one network side port entity.

The service control entity is identified in the *entPhysicalTable* of the IDENTITY-MIB by having one of the following values assigned to *entPhysicalClass* :

- Chassis
- Module

A specific service control entity is identified by the value of the *entPhysicalIndex* of the corresponding entry in the *entPhysicalTable* .

CISCO-SERVICE-CONTROL-LINK-MIB Textual Conventions

CsceLinkModeType

This textual convention defines integer values that identify the various modes of a link.

- (1) **other** : None of the following.
- (2) **bypass** : The traffic is forwarded from one port to the other using an internal splitter.
- (3) **forwarding** : The traffic is forwarded through the internal hardware and software modules of the system.
- (4) **cutoff** : The traffic is dropped by the system.

(5) **sniffing** : The traffic is passed in the same manner as in 'bypass' mode, however a copy of the traffic is made and analyzed internally in the box

CISCO-SERVICE-CONTROL-LINK-MIB Objects

The CISCO-SERVICE-CONTROL-LINK-MIB includes the following objects:

- cscLinkNotifsEnabled
- cscLinkStatusTable
 - cscLinkStatusAdminModeOnActive
 - cscLinkStatusAdminModeOnFailure
 - cscLinkStatusOperMode
 - cscLinkStatusAdminReflectionEnable
 - cscLinkStatusSubscriberSidePortIndex
 - cscLinkStatusNetworkSidePortIndex
 - cscLinkStatusAdminReflectionState

cscLinkNotifsEnabled (integer)

Controls whether the cServiceLinkModeChange notification is generated. A 'false' value prevents notifications from being generated.

Access : read-write

Valid Values

- true (1)
- false (2)

cscLinkStatusTable

This table provides information regarding the configuration and status of the links that pass through the service control entity and carry inband traffic.

The number of entries in this table is determined by:

- The number of service control entities in the *entPhysicalTable* .
- The number of links supported by each service control entity.

INDEX

- *entPhysicalIndex* of the service control entity in the *entPhysicalTable* . (See the ENTITY-MIB).
- **OBJECTS**
- [cscLinkStatusAdminModeOnActive \(integer\)](#), page 2-3
- [cscLinkStatusAdminModeOnFailure \(integer\)](#), page 2-3
- [cscLinkStatusOperMode \(integer\)](#), page 2-3
- [cscLinkStatusAdminReflectionEnable \(integer\)](#), page 2-4

- [cscLinkStatusSubscriberSidePortIndex \(integer\)](#), page 2-4
- [cscLinkStatusNetworkSidePortIndex \(integer\)](#), page 2-4
- [cscLinkStatusAdminReflectionState \(integer\)](#), page 2-4

cscLinkStatusAdminModeOnActive (integer)

The desired mode of the link when the entity containing this link has an operating status of **active** and is not in boot or failure state.

Access : read-write

Valid Values (see [CsceLinkModeType](#), page 2-1

- other (1)
- bypass (2)
- forwarding (3)
- cutoff (4)
- sniffing (5)

cscLinkStatusAdminModeOnFailure (integer)

The desired mode of the link when the entity containing this link has an operating status of **failure** .

Access : read-write

Valid Values (see [CsceLinkModeType](#), page 2-1

- other (1)
- bypass (2)
- forwarding (3)
- cutoff (4)
- sniffing (5)

cscLinkStatusOperMode (integer)

The current operational mode of the link

Access : read-only

Valid Values (see [CsceLinkModeType](#), page 2-1

- other (1)
- bypass (2)
- forwarding (3)
- cutoff (4)
- sniffing (5)

cscLinkStatusAdminReflectionEnable (integer)

Indicates how the failure status of the physical link on one port should be reflected to the other port(s) of the link.

Access : read-write

Valid Values

- reflectionEnabled (1): Failure is reflected on the other port of the link.
- reflectionOnAllPortsEnabled (2): Failure of Physical Link is reflected on all other ports on all links.
- reflectionDisabled (3): Port status is not reflected on the link.

cscLinkStatusSubscriberSidePortIndex (integer)

The *entPhysicalIndex* value that uniquely identifies the subscriber side port entity contained in this link entity in the *entPhysicalTable* . (See the ENTITY-MIB).

Access : read-only

cscLinkStatusNetworkSidePortIndex (integer)

The *entPhysicalIndex* value that uniquely identifies the network side port entity contained in this link entity in the *entPhysicalTable* . (See the ENTITY-MIB).

Access : read-only

cscLinkStatusAdminReflectionState (integer)

Indicates how the link should propagate the failure state between the ports on each end of the link.

Access : read-write

Valid Values

- noLinkReflection (1): No failure is currently being reflected.
- reflectingFailureToNetwork (2): Link failure on subscriber side is reflected to the network side.
- reflectingFailureToSubscriber (3): Link failure on network side is reflected to the subscriber side.
- reflectingFailureToBoth (4): Failure reflected to both sides of the link .

CISCO-SERVICE-CONTROL-LINK-MIB Notifications

cscLinkModeChange

This notification signifies that the agent entity has detected that the [cscLinkStatusOperMode \(integer\)](#) object in this MIB has changed.