

# Secure Domain Router Commands

Secure domain routers (SDRs) are a means of dividing a single physical system into multiple logically separated routers. Cisco ASR 9000 Series Routers are single-shelf routers that only support one SDR—the Owner SDR.

For detailed information about secure domain router concepts, configuration tasks, and examples, see the *Configuring Secure Domain Routers on Cisco IOS XR Software* module in *System Management Configuration Guide for Cisco ASR 9000 Series Routers*.


- show sdr, on page 2

# show sdr

To display information about the currently defined secure domain routers (SDRs), use the **show sdr** command in the appropriate configuration mode.

**Administration EXEC Mode**
**show sdr** [**name** *sdr-name* [**detail**] | **summary**]

**EXEC Mode**
**show sdr** [**detail**]

## Syntax Description

| | |
|---|---|
| **name** *sdr-name* | Specifies a specific SDR. |
| **detail** | Displays more detailed information for a specific SDR. |
| **summary** | Displays summary information about all SDRs in the system. |

## Command Default

Administration EXEC Mode Mode:

- Displays information for the Owner SDR.
- If you are logged into a specific SDR as the admin user, then information about the local SDR is displayed.

EXEC Mode Mode:

- Displays information about the local SDR.

## Command Modes

EXEC

Administration EXEC

System Admin EXEC mode on 64-bit IOS-XR

XR EXEC

System Admin EXEC

## Command History

| Release | Modification |
|---|---|
| Release 3.7.2 | 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.

Use the **show sdr** command in administration EXEC mode to display the inventory of nodes in the Owner SDR or in a specific named SDR. The **show sdr** command in EXEC mode displays the inventory of nodes in the current SDR.

## Task ID

| Task ID | Operations |
|---|---|
| system | read |

This example shows sample output from the **show sdr** command in

EXEC

XR EXEC

mode:

XR EXEC

```
RP/0/RSP0/CPU0:router# show sdr
Thu Feb 15 04:09:06.179 PST

SDR Inventory
--------------

Type       NodeName   NodeState         RedState   PartnerName
-------------------------------------------------------------
RP(0)      0/RSP0/CPU0 IOS XR RUN        Active     0/RSP1/CPU0
RP(0)      0/RSP1/CPU0 NOT_PRESENT       Standby    0/RSP0/CPU0
LC(2)      0/1/CPU0   IOS XR RUN        NONE       NONE
LC(2)      0/4/CPU0   IOS XR RUN        NONE       NONE
LC(2)      0/6/CPU0   IOS XR RUN        NONE       NONE
```

***Table 1: show sdr Field Descriptions***

| Field | Description |
|---|---|
| Type | Type of card, which can be Linecard, RP, or DRP. |
| NodeName | Name of the node, expressed in the *rack*/*slot*/*module* notation. |
| NodeState | Run state of the card, which can be failure, present, booting, running, and so on. |
| RedState | Redundancy state of the card, which can be active, standby, or none. |
| PartnerName | Partner of the card, expressed in the *rack*/*slot*/*module* notation. |

This example shows sample output from the **show sdr** command in administration EXEC

System Admin EXEC

mode with the **summary** keyword:

```
RP/0/RSP0/CPU0:router(admin)# show sdr summary
Thu Feb 15 04:13:27.508 PST

SDRs Configured:
SDR-Names   SDRid dSDRSC      StbydSDRSC  Primary1    Primary2    MacAddr
-------------------------------------------------------------------------
Owner       0     0/RSP0/CPU0 NONE        0/RSP0/CPU0 0/RSP1/CPU0  001d.e5eb.c0ae
```

*Table 2: show sdr summary Field Descriptions*

| Field | Description |
|---|---|
| SDRid | Identifier of the SDR. |
| dSDRSC | Designated secure domain router shelf controller. This refers to the controller of the SDR. |
| StbydSDRSC | Standby DSDRSC. This refers to the standby controller of the SDR. |
| Primary1 | Configured primary node. |
| Primary2 | Configured primary node pair. |
| MacAddr | MAC address associated with the SDR. |