

Recover the Missing Interface from the Power Saving Mode

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Introduction

This document describes how to bring up the interface from the power saving mode on the ASR 9000 line card A99-32X100GE-X-SE.

Prerequisites

Requirements

Cisco recommends that you have knowledge of these topics:

- Power consumption optimization on ASR 9000 line card
- Power saving mode configuration on ASR 9000 line card

Components Used

The information in this document is based on these software and hardware versions:

- ASR9000 Router Line Card - A99-32X100GE-X-SE
- Cisco IOS® XR release 7.7.X or earlier

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, ensure that you understand the potential impact of any command.

Problem

When you remove the power saving mode configuration for a slice on the line card A99-32X100GE-X-SE, unlike other types of line cards, the corresponding physical interface(s) and optic(s) can go down regardless of the layer one connection.

The Syslog messages for it are similar to:

RP/0/RP0/CPU0:May 31 10:00:41.518 CEST: psm[451]: %PLATFORM-APM-6-INFO :

LC/0/1/CPU0:May 31 10:00:55.041 CEST: ifmgr[297]: %PKT_INFRA-LINK-5-CHANGED : Interface Optics0/1/0/12, changed state to Down

LC/0/1/CPU0:May 31 10:00:57.025 CEST: ifmgr[297]: %PKT_INFRA-LINK-5-CHANGED : Interface HundredGigE0/1/0/12, changed state to Administ

If you verify the port status via the command `show controllers np all loc 0/1/CPU0`, the slice or Network Processor (NP) is missing.

Node: 0/1/CPU0:

```
-----  
NP Bridge Fia          Ports  
-----  
0 -- 0 HundredGigE0/0/0/0 - HundredGigE0/0/0/3  
1 -- 1 HundredGigE0/0/0/4 - HundredGigE0/0/0/7  
2 -- 2 HundredGigE0/0/0/8 - HundredGigE0/0/0/9  
3 -- 3  
4 -- 4 HundredGigE0/0/0/16 - HundredGigE0/0/0/19  
5 -- 5 HundredGigE0/0/0/20 - HundredGigE0/0/0/23  
6 -- 6 HundredGigE0/0/0/24 - HundredGigE0/0/0/27  
7 -- 7 HundredGigE0/0/0/28 - HundredGigE0/0/0/31
```

Solution

Reloading the line card can recover the interface(s) on this slice or NP in such situations.

In the later release with the fix of Cisco bug ID [CSCwb93350](#), the line card reload is no longer required.

Related Information

- [ASR 9000 Optimize Power Consumption](#)
- [ASR 9000 Power Saving Mode Configuration Reference](#)
- [Saving Energy and Money with ASR 9000 Advanced Power Management \(APM\)](#)
- [Cisco Technical Support & Downloads](#)