

ASR 5000系列机箱PSC放置和配置要求适当的线路卡功能的

目录

[简介](#)

[PSC配置和放置需求](#)

[相关信息](#)

简介

本文关于放置和配置描述信息包服务卡(PSC)需求，必须满足为了保证所有线路卡是可用的在Cisco聚合服务路由器(ASR) 5000系列机箱。

PSC配置和放置需求

有PSC放置和配置的一些需求关于线路卡作用。您也许发现，当您尝试配置一个线路卡端口用端口以太网时，您遇到失败：没有这样Port错误信息。

为了请是的线路卡能在它后可用的，PSC必须物理的安排其模式配置作为激活。如果PSC配置作为备用模式，即使有足够的PSCs配置同能连接到它的激活模式，则线路卡不是可用的并且报告READY状态。这适用于大型的XGLC (万兆以太网线路卡)和半尺寸线路卡。这是最佳解释与使用示例。

在本例中，起点是七出于作为激活模式配置的八个PSCs，并且PSC 16配置作为备用模式。另外，PSC 16通过更早的迁移做激活。注释线路卡32的状态在下输出中，物理的连接对PSC 16 (16 + 16 = 32)并且在READY状态。这是因为PSC 16配置作为备用模式。

```
card 4
  mode active
#exit
card 5
  mode active
#exit
card 6
  mode active
#exit
card 11
  mode active
#exit
card 12
  mode active
#exit
card 13
  mode active
#exit
```

```

card 14
  mode active
#exit

port ethernet 28/1
  link-aggregation member global group 40
  no shutdown
#exit
port ethernet 29/1
  link-aggregation master global group 40
  link-aggregation redundancy standard hold-time 10 preferred slot 28
  no shutdown
vlan 2016
  no shutdown
#exit
vlan 2020
  no shutdown
#exit
vlan 2019
  no shutdown
#exit
vlan 2021
  no shutdown
#exit
vlan 2010
  no shutdown
  bind interface 28/1_gn ivan_gn
#exit
vlan 2011
  no shutdown
  bind interface 28/1_internet ivan_gi
#exit
vlan 2012
  no shutdown
  bind interface 28/1_gy ivan_gy
#exit
#exit
port ethernet 30/1
  no shutdown
#exit
port ethernet 37/1
  no shutdown
#exit
port ethernet 37/2
  no shutdown
#exit
port ethernet 37/3
  no shutdown
#exit

```

[local]ASR5000-2# **show card table all**

| Slot | Card Type | Oper State | SPOF | Attach |
|---------|------------------------|------------|------|--------|
| 1: PSC | None | - | - | - - |
| 2: PSC | None | - | - | - - |
| 3: PSC | None | - | - | - - |
| 4: PSC | Packet Services Card 2 | Standby | - | - - |
| 5: PSC | Packet Services Card 2 | Active | No | - 37 |
| 6: PSC | Packet Services Card 2 | Active | No | - - |
| 7: PSC | None | - | - | - - |
| 8: SMC | System Management Card | Standby | No | - - |
| 9: SMC | System Management Card | Active | No | 24 25 |
| 10: PSC | None | - | - | - - |

| | | | | | |
|---------------|----------------------------------|--------------|----------|----------|----------|
| 11: PSC | Packet Services Card 2 | Active | No | 27 | - |
| 12: PSC | Packet Services Card 2 | Active | No | 28 | - |
| 13: PSC | Packet Services Card 2 | Active | No | 29 | - |
| 14: PSC | Packet Services Card 2 | Active | No | 30 | - |
| 15: PSC | None | - | - | - | - |
| 16: PSC | Packet Services Card 2 | Active | No | - | - |
| 17: LC | None | - | - | - | - |
| 18: LC | None | - | - | - | - |
| 19: LC | 10/100 Ethernet Line Card | Ready | - | - | - |
| 20: LC | None | - | - | - | - |
| 21: LC | None | - | - | - | - |
| 22: LC | None | - | - | - | - |
| 23: LC | 1000 Ethernet Line Card | Ready | - | - | - |
| 24: SPIO | Switch Processor I/O (BNC) Card | Standby | - | 9 | - |
| 25: SPIO | Switch Processor I/O (BNC) Card | Active | No | 9 | - |
| 26: LC | None | - | - | - | - |
| 27: LC | 10/100 Ethernet Line Card | Standby | - | 11 | - |
| 28: LC | 10 Gig Ethernet Line Card | Active | Yes | 12 | - |
| 29: LC | 10 Gig Ethernet Line Card | Active | Yes | 13 | - |
| 30: LC | 10 Gig Ethernet Line Card | Standby | - | 14 | - |
| 31: LC | None | - | - | - | - |
| 32: LC | 10 Gig Ethernet Line Card | Ready | - | - | - |
| 33: LC | None | - | - | - | - |
| 34: LC | None | - | - | - | - |
| 35: LC | 10/100 Ethernet Line Card | Ready | - | - | - |
| 36: LC | None | - | - | - | - |
| 37: LC | Quad 1000 Ethernet Line Card | Standby | - | 5 | - |
| 38: LC | None | - | - | - | - |
| 39: LC | 1000 Ethernet Line Card | Ready | - | - | - |
| 40: RCC | Redundancy Crossbar Card | Standby | - | - | - |
| 41: RCC | Redundancy Crossbar Card | Standby | - | - | - |
| 42: LC | None | - | - | - | - |
| 43: LC | None | - | - | - | - |
| 44: LC | None | - | - | - | - |
| 45: LC | None | - | - | - | - |
| 46: LC | None | - | - | - | - |
| 47: LC | None | - | - | - | - |
| 48: LC | None | - | - | - | - |

之后，PSC 16配置对激活模式：

```
[local]ASR5000-2(config)# card 16
[local]ASR5000-2(config-card-16)# mode active
[local]ASR5000-2(config-card-16)# end
```

这造成PSC 4过渡到激活模式，因为由设计系统尝试激活是配置的活跃的许多个PSCs。它也造成线路卡32过渡到备用状态，允许它将配置/使用和连接对PSC 16：

```
Thu Jun 11 17:59:40 2015 Internal trap notification 55 (CardActive) card 4 type
Packet Services Card 2
Thu Jun 11 17:59:40 2015 Internal trap notification 55 (CardActive) card 32 type
10 Gig Ethernet Line Card
Thu Jun 11 17:59:41 2015 Internal trap notification 93 (CardStandby) card 32 type
10 Gig Ethernet Line Card
```

```
[local]ASR5000-2# show card table all
```

| Slot | Card Type | Oper State | SPOF | Attach |
|----------------|----------------------------------|----------------|------------|-----------|
| 1: PSC | None | - | - | - |
| 2: PSC | None | - | - | - |
| 3: PSC | None | - | - | - |
| 4: PSC | Packet Services Card 2 | Active | Yes | - |
| 16: PSC | Packet Services Card 2 | Active | Yes | 32 |
| 32: LC | 10 Gig Ethernet Line Card | Standby | - | 16 |

在下输出中，PSC 16然后配置回到备用模式和已连接线路卡32转变回到READY状态。作为在避免无计划的会话丢失的系统的一注意事项，当PSC配置对备用模式时，它保持活动，除非强迫重新启动：

```
[local]ASR5000-2(config)# card 16
[local]ASR5000-2(config-card-16)# mode standby
[local]ASR5000-2(config-card-16)# end
```

```
Thu Jun 11 18:02:05 2015 Internal trap notification 60 (CardDown) card 32 type 10
Gig Ethernet Line Card
Thu Jun 11 18:02:06 2015 Internal trap notification 5 (CardUp) card 32 type 10
Gig Ethernet Line Card
```

```
[local]ASR5000-2# show card table all
```

| Slot | Card Type | Oper State | SPOF | Attach |
|----------|---------------------------------|------------|------|--------|
| 1: PSC | None | - | - | - - |
| 2: PSC | None | - | - | - - |
| 3: PSC | None | - | - | - - |
| 4: PSC | Packet Services Card 2 | Active | Yes | - - |
| 5: PSC | Packet Services Card 2 | Active | Yes | - 37 |
| 6: PSC | Packet Services Card 2 | Active | Yes | - - |
| 7: PSC | None | - | - | - - |
| 8: SMC | System Management Card | Standby | No | - - |
| 9: SMC | System Management Card | Active | No | 24 25 |
| 10: PSC | None | - | - | - - |
| 11: PSC | Packet Services Card 2 | Active | Yes | 27 - |
| 12: PSC | Packet Services Card 2 | Active | Yes | 28 - |
| 13: PSC | Packet Services Card 2 | Active | Yes | 29 - |
| 14: PSC | Packet Services Card 2 | Active | Yes | 30 - |
| 15: PSC | None | - | - | - - |
| 16: PSC | Packet Services Card 2 | Active | Yes | - - |
| 17: LC | None | - | - | - |
| 18: LC | None | - | - | - |
| 19: LC | 10/100 Ethernet Line Card | Ready | - | - |
| 20: LC | None | - | - | - |
| 21: LC | None | - | - | - |
| 22: LC | None | - | - | - |
| 23: LC | 1000 Ethernet Line Card | Ready | - | - |
| 24: SPIO | Switch Processor I/O (BNC) Card | Standby | - | 9 |
| 25: SPIO | Switch Processor I/O (BNC) Card | Active | No | 9 |
| 26: LC | None | - | - | - |
| 27: LC | 10/100 Ethernet Line Card | Standby | - | 11 |
| 28: LC | 10 Gig Ethernet Line Card | Active | Yes | 12 |
| 29: LC | 10 Gig Ethernet Line Card | Active | Yes | 13 |
| 30: LC | 10 Gig Ethernet Line Card | Standby | - | 14 |
| 31: LC | None | - | - | - |
| 32: LC | 10 Gig Ethernet Line Card | Ready | - | - |
| 33: LC | None | - | - | - |
| 34: LC | None | - | - | - |
| 35: LC | 10/100 Ethernet Line Card | Ready | - | - |
| 36: LC | None | - | - | - |
| 37: LC | Quad 1000 Ethernet Line Card | Standby | - | 5 |
| 38: LC | None | - | - | - |
| 39: LC | 1000 Ethernet Line Card | Ready | - | - |
| 40: RCC | Redundancy Crossbar Card | Standby | - | - |
| 41: RCC | Redundancy Crossbar Card | Standby | - | - |
| 42: LC | None | - | - | - |
| 43: LC | None | - | - | - |
| 44: LC | None | - | - | - |
| 45: LC | None | - | - | - |
| 46: LC | None | - | - | - |
| 47: LC | None | - | - | - |

如果线路卡配置(未关闭)，并且连接的PSC配置对备用模式，线路卡的配置永久丢失：

```
show config
```

```
...
port ethernet 32/1
  no shutdown
  vlan 30
  #exit
#exit
```

```
[local]ASR5000-2# config
[local]ASR5000-2(config)# card 16
[local]ASR5000-2(config-card-16)# mode standby
[local]ASR5000-2(config-card-16)# end
```

```
show config
```

```
...
no config for port 32/1
```

在READY状态的尝试配置端口导致失败：没有这样端口错误：

```
[local]ASR5000-2# config
[local]ASR5000-2(config)# port ethernet 32/1
Failure: no such port
[local]ASR5000-2(config)#
```

相关信息

- [ASR 5000安装指南- Cisco系统](#)
- [技术支持和文档 - Cisco Systems](#)