Cisco XR 12000ã‚·ãƒªãƒ¼ã‚ºå…±æœ‰ãƒ�ãƒ¼ãƒˆã‚¢ãƒ€ãƒ—

(severity)

ã‚¢ãƒ‰ãƒ�ã‚¤ã‚¶ãƒªãƒ¼ID : cisco-sa-20110525-iosxrspa

å…¬é–‹æ—¥ : 2011-05-25 16:00

ãƒ�ãƒ¼ã‚¸ãƒ§ãƒ³ 1.0 : Final

å›žé�¿ç– : No Workarounds available

Cisco ãƒ�ã‚° ID :

æ—¥æœ¬èªžã�«ã‹ã‹æ‚…å ±ã�¯ã€�è‹±èªžã�«ã‹ã‹åŽŸæ–‡ã�®é�žå…¬å¼�ã‹

æ¦‚è¦�

Cisco IOS XRã‚½ãƒ•ãƒˆã‚¦ã‚§ã‚¢ãƒªãƒªãƒ¼ã‚¹3.9.0ã€�3.9.1ã€�3.9.2ã€�4.0.0ã€�4.0.1ã€�4.0.2ã€�ã�Šã‚ˆã�³4.1

ã‚·ã‚¹ã‚³ã�¯ã€�ã�"ã�®è„†å¼±æ€§ã�«å¯¾ã‚‹ç„¡å„Ÿã�®ã‚½ãƒ•ãƒˆã‚¦ã‚§ã‚¢ã‚¡ãƒ³ãƒ†ãƒŠãƒ³

ã�"ã‚Œã‰ã�®è„†å¼±æ€§ã�«å¯¾ã�—ã�¦ã�¯å›žé�¿ç–ã�Œã�ã‚Šã�¾ã�›ã‚“ã€�

ã�"ã�®ã‚¢ãƒ‰ãƒ�ã‚¤ã‚¶ãƒªã�¯ã€�
https://sec.cloudapps.cisco.com/security/center/content/CiscoSecurityAdvisory/cisco-sa-20110525-iosxrspa
ã�§å…¬é–‹ã�•ã‚Œã�¦ã�„ã�¾ã�™ã€�

è©²å½“è£½å“�

ã�"ã�®è„†å¼±æ€§ã�¯ã€�Cisco IOS XRã‚½ãƒ•ãƒˆã‚¦ã‚§ã‚¢ãƒªãƒªãƒ¼ã‚¹3.9.0ã€�3.9.1ã€�3.9.2ã€�4.0.0ã€�4.0.1ã€�4.0.2ã€�ã�¾ã�Ÿã‚

è„†å¼±æ€§ã�®ã�‚ã‚‹è£½å“�

ã�"ã�®è„†å¼±æ€§ã�¯ã€�Cisco XR 12000ã‚·ãƒªãƒ¼ã‚ºãƒ«ãƒ¼ã‚¿ä¸Šã�®ã�™ã�¹ã�¦ã�®ã¨ãƒ³ã‚¸ãƒ³5ãƒ©ã‚¤ãƒ³ã‚«ãƒ¼ãƒ‰ã�«å½±éŸ
600ã€�SIP-601ã€�SIP-501ã€�ã�Šã‚ˆã�³SIP-401ã�§ã�™ã€�

ã‚·ã‚¹ã‚³è£½å“�ã�§å®Ÿè¡Œã�•ã�¦ã�„ã‚‹Cisco IOS XRã‚½ãƒ•ãƒˆã‚¦ã‚§ã‚¢ãƒªãƒªãƒ¼ã‚¹ã‚’ç¢ºèª�ã�™ã‚‹ã�«ã�¯ã€�ç®¡ç�†è€…ã�Œãƒ‡ãƒ�ã‚¤ã‚¹ã�«
versionã‚³ãƒžãƒ³ãƒ‰ãƒ©ã‚¤ãƒ³ã‚¤ãƒ³ã‚¿ãƒ•ã‚§ã‚¤ã‚¹(CLI)ã‚³ãƒžãƒ³ãƒ‰ã‚’ç™ºè¡Œã�—ã€�ã‚·ã‚¹ãƒ†ãƒ�ã‚¤ã‚¹ã�«
IOS XR

Softwareã€�ã�«é¡žä¼¼ã�—ã�Ÿãƒ†ã‚¹ãƒˆã�Œè¡¨ç¤ºã�•ã‚Œã€�ãƒ‡ãƒ�ã‚¤ã‚¹ã�§Cisco
IOS
XRã‚½ãƒ•ãƒˆã‚¦ã‚¢ã�Œå®Ÿè¡Œã�•ã‚Œã�¦ã�"ã‚‹ã�"ã�¨ã'ç¢ºã�§ã��ã�¾ã�™ã€‚ã‚½
IOS XR Softwareã€�ã�¨ã�"ã�†ãƒ†ã‚¹ãƒˆã�®å¾Œã�«è¡¨ç¤ºã�•ã‚Œã�¾ã�™ã€‚

æ¬¡ã�®ä¾‹ã�¯ã€�Cisco IOS
XRã‚½ãƒ•ãƒˆã‚¦ã‚¢ãƒ�ãƒ¼ã‚¸ãƒ§ãƒ³3.9.1ã'å®Ÿè¡Œã�—ã�¦ã�"ã‚‹Cisco XR
12000ã‚·ãƒªãƒ¼ã‚ºãƒ«ãƒ¼ã‚¿ã'ç¤ºã�—ã�¦ã�"ã�¾ã�™ã€‚

```
RP/0/0/CPU0:example#show version
Wed Dec 15 10:16:47.117 singa

Cisco IOS XR Software, Version 3.9.1[00]
Copyright (c) 2010 by Cisco Systems, Inc.

ROM: System Bootstrap, Version 12.0(20090302:133850) [rtauro-sw30346-33S 1.23dev(0.36)] DEVELOPMENT S
Copyright (c) 1994-2009 by cisco Systems,  Inc.

example uptime is 26 minutes
System image file is "disk0:c12k-os-mbi-3.9.1/mbiprp-rp.vm"

cisco 12404/PRP (7457) processor with 3145728K bytes of memory.
7457 processor at 1266Mhz, Revision 1.2

1 Cisco 12000 Series Performance Route Processor
1 Cisco 12000 Series SPA Interface Processor-601/501/401
1 Cisco 12000 4 Port Gigabit Ethernet Controller (4 GigabitEthernet)
3 Management Ethernet
5 PLIM_QOS
8 FastEthernet
4 GigabitEthernet/IEEE 802.3 interface(s)
1019k bytes of non-volatile configuration memory.
982304k bytes of disk0: (Sector size 512 bytes).
62420k bytes of disk1: (Sector size 512 bytes).
65536k bytes of Flash internal SIMM (Sector size 256k).

!--- output truncated
```

SPAã‚¤ãƒ³ã‚¿ãƒ¼ãƒ•ã‚§ã‚¹ã‚¹ãƒ—ãƒã‚»ãƒƒãƒ�ã�Œãƒ‡ãƒ�ã‚¤ã‚¹ã�«ã‚¤ãƒ³ã‚¹ãƒˆãƒ¼ãƒ«ã�•ã‚Œã�¦ã�"
platformã‚³ãƒžãƒ³ãƒ‰ã'ç™ºè¡Œã�—ã�¦ã‚¹ãƒ†ãƒ ã�®ãƒ©ã‚¤ãƒ³ã‚«ãƒ¼ãƒ‰ã'è¡¨ç¤ºã�—ã�¾ã�
Eng
5ã€�ã�«é¡žä¼¼ã�—ã�Ÿãƒ†ã‚¹ãƒˆã�Œè¡¨ç¤ºã�•ã‚Œã€�ãƒ‡ãƒ�ã‚¤ã‚¹ã�«SPAã‚¤ãƒ³ã‚¿ãƒ¼ãƒ

æ¬¡ã�®ä¾‹ã�¯ã€�ã‚¨ãƒ³ã‚¸ãƒ³5ãƒ©ã‚¤ãƒ³ã‚«ãƒ¼ãƒ‰ã�Œã‚¤ãƒ³ã‚¹ãƒˆãƒ¼ãƒ«ã�•ã‚Œã�¦ã�"ã‚‹Ci
XR 12000ã‚·ãƒªãƒ¼ã‚ºãƒ«ãƒ¼ã‚¿ã'ç¤ºã�—ã�¦ã�"ã�¾ã�™ã€‚

```
RP/0/0/CPU0:example#show platform
```

```
Mon May  9 18:40:26.100 PST
Node            Type            PLIM            State           Config State
-------------------------------------------------------------------------------
0/0/CPU0        PRP(Active)     N/A             IOS XR RUN      PWR,NSHUT,MON
0/1/CPU0        L3LC Eng 5+     Jacket Card     IOS XR RUN      PWR,NSHUT,MON
0/1/0           SPA             SPA-8XFE-TX     READY           PWR,NSHUT
0/2/CPU0        L3LC Eng 3      GE-4            IOS XR RUN      PWR,NSHUT,MON
```

ã�¾ã�Ÿã�¯ã€�CLIã‚³ãƒžãƒ³ãƒ‰**show diag**ã'®Ÿè¡Œã�—ã�¾ã�™ | **include SPA Interface Processor**ã�¯ã€�**SPAã‚¤ãƒ³ã‚¿ãƒ¼ãƒ•**ã‚¤ã§ã'¹ãƒ—ãƒ»ãƒƒã‚µ�Œã‚¤ãƒ³ã'¹ãƒˆãƒ¼ãƒ«ã�•ã‚Œã�¦ã�

401ã�Œã‚¤ãƒ³ã'¹ãƒˆãƒ¼ãƒ«ã�•ã‚Œã�¦ã�„ã‚‹ãƒ�ã‚¤ã'¹ã'ç¤º�—ã�¦ã�„ã�¾ã�™ã€‚

```
RP/0/0/CPU0:example#show diag | include SPA Interface Processor
Mon May  9 18:44:23.069 PST
SLOT  1 (RP/LC 1): Cisco 12000 Series SPA Interface Processor- 401
RP/0/0/CPU0:example#
```

è„†å¼±æ€§ã'å�«ã'ã�§ã�„ã�ªã�„ã�¨ã�Œç¢ºèª�ã�•ã‚Œã�Ÿè£½å"�

Cisco IOS
XRã½ãƒ•ãƒˆã¦ã§ã¢ã�®ã��ã�®ä»–ã�®ãƒãƒ¼ãƒ«ã'¹ã�¯å½±éŸ¿ã'å�—ã'ã�¾ã�›ã"ã€‚

æ¬¡ã�®è£½å"�ã�¯ã€�ã�"ã�®è„†å¼±æ€§ã�®å½±éŸ¿ã'å�—ã'ã�¾ã�›ã"ã€‚

- Cisco IOSã½ãƒ•ãƒˆã¦ã§ã¢ã�Œç¨åƒ�ã�™ã‹Cisco
  12000ã·ãƒªãƒ¼ã'ºSPAã‚¤ãƒ³ã‚¿ãƒ¼ãƒ•ã§ã‚¤ã'¹ãƒ—ãƒ»ãƒƒãµ
- Cisco XR 12000ã·ãƒªãƒ¼ã'ã¨ãƒ³ã'ã f33ãƒ©ã‚¤ãƒ³ã«ãƒ¼ãƒ‰
- Cisco ASR 9000 ã·ãƒªãƒ¼ã' ã‚¢ã'°ãƒªã'²ãƒ¼ã·ãƒ§ãƒ³ ã'µãƒ¼ãƒ"ã'¹ ãƒ«ãƒ¼ã'¿
- Cisco Carrier Routing Systemã·ãƒªãƒ¼ã'ºãƒ«ãƒ¼ã'¿

ä»–ã�®ã·ã'¹ã'³è£½å"�ã�«ã�Šã'ã�¦ã€�ã�"ã�®ã‚ãƒ‰ãƒ�ã'¤ã'¶ãƒªã�®å½±éŸ¿ã'å�—ã

è©³ç´°

Cisco IOSã½ãƒ•ãƒˆã¦ã§ã¢ãƒ•ã'ãƒŸãƒªã�®ä¸€éƒ¨ã�§ã'ã‚‹Cisco IOS
XRã½ãƒ•ãƒˆã'¦ã§ã¢ã�¯ã€�ãƒžã‚¤ã'¯ãƒ¼ãƒ�ãƒ«ãƒ™ãƒ¼ãƒ«ã'¹ã�®å††æ•£ã'ªãƒšãƒ¬ãƒ¼ãƒ†ã£ãƒ³ã‚

IOS XRã½ãƒ•ãƒˆã'¦ã§ã¢ã�¯ã€�Cisco CRSã€�Cisco
12000ã·ãƒªãƒ¼ã'ºãƒ«ãƒ¼ã'¿ã€�ã�Šã'ˆã�³Cisco ASR
9000ã·ãƒªãƒ¼ã'ºã‚ã'°ãƒªã'²ãƒ¼ã'·ãƒ§ãƒ³ã'µãƒ¼ãƒ"ã'¹ãƒ«ãƒ¼ã'¿ä¸Šã'§å‹•ä½œã�—ã�¾ã�™ã€‚ã�"ã'

IOS XRã½ãƒ•ãƒˆã'¦ã§ã'¢ã'å®Ÿè¡Œã�—ã�¦ã�„ã‚‹Cisco
12000ã·ãƒªãƒ¼ã'ºãƒ«ãƒ¼ã'¿ä¸Šã�®SPAã‚¤ãƒ³ã‚¿ãƒ¼ãƒ•ã§ã'¤ã'¹ãƒ—ãƒ»ãƒƒãµ ã'�ã�'ã'§ã�™ã€‚

Cisco IOS
XRã‚½ãƒ•ãƒˆã‚¦ã‚¢ã�®è©³ç´°ã�«ã�¤ã�"ã�¦ã�¯ã€�æ¬¡ã�®ãƒªãƒ³ã‚¯ã'å�‚ç…§ã�—ã�¦ã�

ã�"ã�®è„†å¼±æ€§ã�¯ã€�è©²å½"ãƒªãƒªãƒ¼ã‚¹ã�®Cisco IOS
XRã‚½ãƒ•ãƒˆã‚¦ã‚¢ã'å®Ÿè¡Œã�—ã�¦ã�"ã�¦ã€�SPAã‚¤ãƒ³ã‚¿ãƒ¼ã‚¤ã‚¹ãƒ—ãƒã‚»ãƒƒã‚µã‚¤

SPAã‚¤ãƒ³ã‚¿ãƒ¼ã‚¤ã‚¹ãƒ—ãƒã‚»ãƒƒã‚µ�Œã€�è¨å®šã�•ã‚Œã�Ÿã‚¤ãƒ³ã‚¿ãƒ¼ã‚¤ã‚¹ã�®ãƒ�

```
RP/0/4/CPU0:Example#LC/0/1/CPU0:Apr 26 17:16:31.745 : tx_xbma[85]:
%L2-E5EGRESSQ-4-INTERRUPT : WIM error: reg 0x200000
```

ã�"ã�®è„†å¼±æ€§ã�¯ã€�Cisco Bug ID **CSCto45095**
(ç™»éŒ²ãƒ¦ãƒ¼ã‚¶å°‚ç'")ã�¨ã�—ã�¦æ–‡æ›¸åŒ–ã�•ã‚Œã€�Common Vulnerabilities and
Exposures(CVE)IDã�¨ã�—ã�¦CVE-2011-
1651ã�Œå‰²ã‚Šå½"ã�¦ã‰ã‚Œã�¦ã�"ã�¾ã�™ã€‚

å›žé�¿ç–

ã�"ã�®è„†å¼±æ€§ã�«å¯¾ã�™ã‚‹å›žé�¿ç–ã�¯ã�‚ã‚Šã�¾ã�›ã‚"ã€‚

ã‚¤ãƒ³ãƒ•ãƒ©ã‚¹ãƒˆãƒ©ã‚¯ãƒ�ãƒ£ã‚¢ã‚¯ã‚»ã‚¹ã‚³ãƒ³ãƒˆãƒãƒ¼ãƒ«ãƒªã‚¹ãƒˆ(iACL)ã'ä½¿ç"¨ã�™ã‚‹ã�¨ã€�ã
ãƒ‡ãƒ�ã‚¤ã‚¹ã'ã‚¿ãƒ¼ã‚²ãƒƒãƒˆã�¨ã�—ã�Ÿè¨±å�¯ã�™ã�¹ã��ã�§ã�¯ã�ªã�"ãƒˆãƒ©ãƒ•ã‚£ãƒƒ
RPF ã'ä½¿ç"¨ã�™ã‚‹ã�"ã�¨ã‚�Šå‹§ã�ã�—ã�¾ã�™ã€‚

iACLã�®è©³ç´°ã�«ã�¤ã�"ã�¦ã�¯ã€�æ¬¡ã�®å ´æ‰€ã�«ã�‚ã‚‹ã€ŽLimit Network
Access with Access Control
Listsã€�ã'å�‚ç…§ã�—ã�¦ã��ã� ã�•ã�"ã€‚http://www.cisco.com/web/about/security/intelligence/Cisc

ä¿®æ£æ¸ˆã�¿ã‚½ãƒ•ãƒˆã‚¦ã‚¢

ã‚¢ãƒƒãƒ—ã‚°ãƒ¬ãƒ¼ãƒ‰ã'æ¤œè¨Žã�™ã‚‹å ´å�ˆã�¯ã€�http://www.cisco.com/go/psirt
ã�¨å¾Œç¶šã�®ã‚ãƒ‰ãƒ�ã‚¤ã‚¶ãƒªã„ã'å�‚ç…§ã�—ã�¦ã€�å•�é¡Œã�®è§£æ±ºç¶æ³�ã�¨å®
ã‚½ãƒªãƒ¥ãƒ¼ã‚·ãƒ§ãƒ³ã'ç¢ºèª�ã�—ã�¦ã��ã� ã�•ã�"ã€‚

ã�"ã�šã‚Œã�®å ´å�ˆã‚‚ã€�ã‚¢ãƒƒãƒ—ã‚°ãƒ¬ãƒ¼ãƒ‰ã�™ã‚‹æ©Ÿå™¨ã�«å��å†ã�ªãƒ¡ãƒ¢ãƒ
Technical Assistance
Centerï¼ˆTACï‰‰ã�¾ãŸã�¯å¥'ç´„ã'çµ�ã�"ã�§ã�"ã‚‹ãƒ¡ãƒ³ãƒ†ãƒŠãƒ³ã‚¹
ãƒ—ãƒãƒ�ã‚¤ãƒ€ãƒ¼ã�«ã�Šå•�ã�"å�ˆã‚�ã�›ã��ã� ã�•ã�"ã€‚

ãƒ¡ã‚¸ãƒ£ãƒ¼ ãƒªãƒªãƒ¼ã‚¹		
è©²å½“ã�™ã‚‹3.2.X ï½ž 3.8.Xãƒªãƒªã‚¹ã�®ãƒªãƒªãƒ¼ã‚¹	**SMU ID**	**SMU å��**
	è©²å½“ã�™ã‚‹3.2.X ï½ž 3.8.Xãƒªãƒªã‚¹ã�®ãƒªãƒª	
è©²å½“ã�™ã‚‹3.9.Xãƒªãƒªã‚¹ã�®ãƒªãƒªãƒ¼ã‚¹	**SMU ID**	**SMU å��**
3.9.0	ã�ªã�—	å^©ç”¨å�¯èƒ½ã�ªSMUã�Œã�‚ã‚Šã�
3.9.1	AA04896	c12k-os-mbi-3.9.1.CSCto45095
3.9.2	AA04907	c12k-os-mbi-3.9.2.CSCto45095
è©²å½“ã�™ã‚‹4.0.xãƒªãƒªã‚¹ã�®ãƒªãƒªãƒ¼ã‚¹	**SMU ID**	**SMU å��**
4.0.0	ã�ªã�—	å^©ç”¨å�¯èƒ½ã�ªSMUã�Œã�‚ã‚Šã�
4.0.1	AA04884	c12k-4.0.1.CSCto45095
4.0.3	Not affected	
è©²å½“4.1.xãƒªãƒªã‚¹ã�®ãƒªãƒªãƒ¼ã‚¹	**SMU ID**	**SMU å��**
4.1.0	AA04976	c12k-4.1.0.CSCto45095
4.1.1	Not affected	

ä¸�æ£å^©ç”¨äº‹ä¾‹ã� ¨å…¬å¼�ç™ºè¡¨

Cisco PSIRT

ã�§ã�¯ã€�æœ¬ã‚¢ãƒ‰ãƒ�ã‚¤ã‚¶ãƒªã�«è¨˜è¼‰ã�•ã‚Œã�¦ã�"ã‚‹è„†å¼±æ€§ã�®ä¸�æ£ˆ©ç'

ã�"ã�®è„†å¼±æ€§ã�¯ã€�ã‚«ã‚¹ã‚¿ãƒžãƒ¼ã‚µãƒ�ãƒ¼ãƒˆã‚³ãƒ¼ãƒ«ã�®å‡¦ç�†æ™‚ã�«ç™ºè¦‹ã�•ã

URL

æ"¹è¨‚å±¥æ´

ãƒªãƒ"ã‚¸ãƒ§ãƒ³ 1.0	2011å¹´5æœ^25æ—¥	å^�å›žå…¬é-‹ãƒªãƒªãƒ¼ã‚¹

å^©ç"¨è¦¦ç´„

æœ¬ã‚¢ãƒ‰ãƒ�ã‚¤ã‚¶ãƒªã�¯ç„¡ä¿�è¨¼ã�®ã„ã�®ã�¨ã�—ã�¦ã�"æ��ä¾›ã�—ã�¦ã�Šã‚Šã€
æœ¬ã‚¢ãƒ‰ãƒ�ã‚¤ã‚¶ãƒªã�®æƒ…å ±ã�Šã‚ˆã�³ãƒªãƒ³ã‚¯ã�®ä½¿ç"¨ã�«é-¢ã�™ã‚‹è²¬ä»»ã�®ä¸€
ã�¾ã�Ÿã€�ã‚·ã‚¹ã‚³ã�¯æœ¬ãƒ‰ã‚ãƒ¥ãƒ¡ãƒ³ãƒˆã�®å†…å®¹ã‚'äºˆå‘Šã�ªã�—ã�«å¤‰æ›´ã�—ã
æœ¬ã‚¢ãƒ‰ãƒ�ã‚¤ã‚¶ãƒªã�®è¨˜è¿°å†…å®¹ã�«é-¢ã�—ã�¦æƒ…å ±å…�ä¿¡ã�® URL
ã‚'çœ�ç•¥ã�—ã€�å�˜ç‹¬ã�®è»¢è¼‰ã„æ„�è¨³ã‚'æ-½ã�—ã�Ÿå ´å^�ã€�å½"ç¤¾ã�Œç®¡ç
ã�"ã�®ãƒ‰ã‚ãƒ¥ãƒ¡ãƒ³ãƒˆã�®æƒ…å ±ã�¯ã€�ã‚·ã‚¹ã‚³è£½å"�ã�®ã¨ãƒ³ãƒ‰ãƒ¦ãƒ¼ã‚¶ã'å¯¾è±¡ã