

Cisco IOSã,½ãf•ãf^ã,|ã,§ã,cãfžãf«ãf♦ãf—ãf- ãf^ã,³ãf«ãf©ãf™ãf«ã,¹ã,¤ãffãf♦ãf³ã,ºãf'ã,±ãf



ã,çãf‰ãf♦ã,¤ã,¶ãfãf%ID : cisco-sa-

[CVE-2010-](#)

20100324-ldp

[0576](#)

å^♦å...-é-æ-¥ : 2010-03-24 00:00

æœ€qæ>`æ-°æ—¥ : 2012-09-21 19:10

ãf♦ãf%ã,ãf§ãf³ 1.1 : Final

CVSSã,¹ã,³ã,¢ : [7.8](#)

å›é♦¿ç- : No Workarounds available

Cisco ãf♦ã,º ID : [CSCsz45567](#)

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æ!,è!

Cisco IOS®ã,½ãf•ãf^ã,|ã,§ã,cã€♦Cisco IOS XEã,½ãf•ãf^ã,|ã,§ã,cã€♦ã♦¾ã♦Ýã♦Cisco IOS XRã,½ãf•ãf^ã,|ã,§ã,cã,'å®Ýè;Œã♦—ã♦ |ã♦,,ã,<ãf‡ãf♦ã,¤ã,¹ã♦^-ã€♦Multiprotocol Label Switching(MPLS)ã♦Œè °å®šã♦•ã,Œã€♦Label Distribution

Protocol(LDP)ã♦Œã,µãf♦ãf%ãf^ã♦•ã,Œã♦ |ã♦,,ã,<å 'å♦^ã€♦ãf§ãf%ãf^ã♦®Denial of Service(DoS)çŠ¶æ...ã♦«å^-¾ã♦—ã♦ |è,,†å¼±ã♦§ã♦™ã€,

å·§å!TMã♦«ç°å·¥ã♦•ã,Œã♦ÝLDP UDPãf'ã,±ãffãf^ã♦«ã,^ã,Šã€♦Cisco IOSã,½ãf•ãf^ã,|ã,§ã,cã♦¾ã♦Ýã♦Cisco IOS

XEã,½ãf•ãf^ã,|ã,§ã,cã,'å®Ýè;Œã♦—ã♦ |ã♦,,ã,<ãf‡ãf♦ã,¤ã,¹ã♦§ãf§ãf%ãf‰ã♦Œç™oç'Ýã♦IOS

XRã,½ãf•ãf^ã,|ã,§ã,cã,'å®Ýè;Œã♦—ã♦ |ã♦,,ã,<ãf‡ãf♦ã,¤ã,¹ã♦§ã♦^-ã€♦ã♦"ã♦®ã,^ã♦†ã♦^ãf'ã,±

LDPã♦¾ã♦Ýã♦Tag Distribution

Protocol(TDP)ã♦Œè °å®šã♦•ã,Œã♦ |ã♦,,ã,<ã,¹ãftãf ã♦«ã♦^-è,,†å¼±æ€§ã♦Œå~åœ °ã♦—ã♦¾ã♦

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ã♦"ã♦®ã,cãf‰ãf♦ã,¤ã,¶ãfã♦^-ã€♦<https://sec.cloudapps.cisco.com/security/center/content/CiscoSecurityAlerts-20100324-ldp> ã♦§å...-é-ã♦•ã,Œã♦ |ã♦,,ã♦¾ã♦™ã€,

æ³"i/š2010å¹`3æœ^24æ—¥ã♦®Cisco

IOSã,½ãf•ãf^ã,|ã,§ã,çã,»ã,ãf¥ãf^ãf†ã,£ã,çãf%oãf♦ã,¤ã,¶ãf^ãf♦ãf%oãf«å...¬é-<ã♦«ã♦¬ã€♦7ä»¶ã
Cisco IOS

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IOSã,½ãf•ãf^ã,|ã,§ã,çã♦®è,,†å½±æ€§ã,'ä¿®æfã♦—ã♦Ýãf^ãf^ã,¹ã,'ç¤°ã♦—ã♦¾ã♦™ã€,

<https://sec.cloudapps.cisco.com/security/center/content/CiscoSecurityAdvisory/cisco-sa-20100324-bundle>

å€<ã€...♦®å...¬é-<ãf^ã,¬ã♦¬ã€♦æ¬jã♦®ãf^ã,¬ã♦®ã€ŒCisco Event Response:

Semiannual Cisco IOS Software Security Advisory Bundled

Publicationã♦ã♦«ã♦,ã,§ã♦¾ã♦™ã€,

http://www.cisco.com/web/about/security/intelligence/Cisco_ERP_mar10.html

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Cisco IOSã,½ãf•ãf^ã,|ã,§ã,çã♦Cisco IOS XEã,½ãf•ãf^ã,|ã,§ã,çã€♦ã♦§ã,^ã♦³Cisco IOS
XRã,½ãf•ãf^ã,|ã,§ã,çãf‡ãf♦ã,¤ã,¹ã♦¬ã€♦å¬¾è±jã♦”ã♦¤ã,helloãf^ãffã,»ãf^ã,ã,'ãf^ãffã,¹ãf^ã♦™ã,<ã♦<ã€♦LDP
helloãf^ãffã,»ãf^ã,ã,'ãf^ãf^ã,¬ã♦™ã,<ã♦^ã♦tã♦«è”å®šã♦•ã,Œã♦|ã♦,,ã,å’å♦^ã€♦è,,†å½±æ€§ã♦

MPLSã,’ã,µf♦ãf^ã,»ãf^ã♦™ã,XEã,½ãf•ãf^ã,|ã,§ã,çã♦®ã♦™ã♦¹ã♦|ã♦®ãf♦ãf^ã,ãf§ãf^ã♦Œå½±éÝ;ã,’å♦—ã♦’ã♦¾ã♦™ã€,Ci
IOS
XRã,½ãf•ãf^ã,|ã,§ã,çã♦¬ã€♦3.5.2ã,^ã,§ã%o♦ã♦®ãf^ãf^ã,¹ã♦§ã½±éÝ;ã,’å♦—ã♦’ã♦¾ã♦™ã€,

è,,†å½±æ€§ã♦®ã♦,ã,<è£¹/²å“♦

Cisco IOSã,½ãf•ãf^ã,|ã,§ã,çã♦Cisco IOS XEã,½ãf•ãf^ã,|ã,§ã,çã€♦ã♦§ã,^ã♦³Cisco IOS
XRã,½ãf•ãf^ã,|ã,§ã,çã♦®ã,€é”ã♦®æ©Ýè½ã♦§ã♦¬ã€♦ã,¿ãf^ã,²ãffãf^LDP
helloãf^ãffã,»ãf^ã,ã,'ãf^ãffã,¹ãf^ã♦™ã,<ã♦<ã€♦LDP
helloãf^ãffã,»ãf^ã,ã,'ãf^ãf^ã,¬ã♦™ã,<ã,å’...è|♦ã♦Œã♦,ã,§ã♦¾ã♦™ã€,ãf‡ãf♦ã,¤ã,¹ã♦ŒLDP
helloãf^ãffã,»ãf^ã,ã,'ãf^ãffã,¹ãf^ã♦™ã,<ã,^ã♦tã♦«è”å®šã♦•ã,Œã♦|ã♦,,ã,å’ã♦<ã♦tã♦<ã,’ç

1. MPLSe»çé”ã♦Œæœ%oåŠ¹ã♦«ã♦”ã♦fã♦|ã♦,,ã,<ã♦<ã♦Œã♦tã♦<ã,çç°è”ã♦—ã♦¾ã♦

MPLSãf^ã,©ãf^ãf^ã,£ãf^ã,ºã♦Œç,,jåŠ¹ã♦«ã♦”ã♦fã♦|ã♦,,ã,<ãf‡ãf♦ã,¤ã,¹ã♦¬è,,†å½±ã♦

Cisco IOS Software and Cisco IOS XE Software

Cisco IOSã,½ãf•ãf^ã,|ã,§ã,çã♦§ã,^ã♦³Cisco IOS
XEã,½ãf•ãf^ã,|ã,§ã,çã♦§ã♦¬ã€♦CLIã,³ãfžãf^ãf%ompls
ipã,’ä½ç””ã

♦—ã♦ |ã€♦MPLSã•ã,©ãƒ~ãf¼ãf‡ã,£ãf³ã,°ã♦CEãƒ‡ã•ã,©ãƒ«ãf^ã♦§æœ‰oåŠ¹ã♦«ã♦ã♦§
mpls ip♦CEå♦«ã♦¾ã,CEã♦¾ã♦™ã€,Cisco
 IOSã,½ãf•ãf^ã,|ã,§ã,çã♦®å`å♦^ã€♦**show mpls**
interface♦®å‡ºåŠ›ã«ã♦~ã€♦ãf‡ãf♦ã,¤ã,¹ã♦§ç„jåŠ¹ã♦«ã♦~ã♦£ã♦|ã„ã,<ã♦ã♦ã♦©ã?IOSã,½ãf•ãf^ã,|ã,§ã,çãƒ‡ãf♦ã,¤ã,¹ã,'ç¤ºã?—ã♦|ã„ã,ã♦¾ã♦™ã€,

<#root>

Router#

show mpls interface

IP MPLS forwarding is globally disabled on this router.

Individual interface configuration is as follows:

Interface	IP	Tunnel	Operational
Router#			

Cisco IOS XEã,½ãf•ãf^ã,|ã,§ã,çã♦®å`å♦~ã€♦**show running-config**♦®å‡ºåŠ›ã,'èª¿ã♦¹ã€♦ã,°ãfãf¼ãf♦ãf«ã,³ãfžãf³ãf‰no
mpls♦CEå~åœ~ã♦™ã,ã,ç¤ºã?—ã♦|ã€♦ãf‡ãf♦ã,¤ã,¹ã♦CELDP
helloãƒjãffã,»ãf¼ã,ã,'å‡!ç‡†ã?—ã♦~ã,ã,ç¤ºã?—ã♦|ã€♦ãf‡ãf♦ã,¤ã,¹ã♦CEIOS XEã,½ãf•ãf^ã,|ã,§ã,çãƒ‡ãf♦ã,¤ã,¹ã,'ç¤ºã?—ã♦|ã„ã,ã♦¾ã♦™ã€,

<#root>

Router#

show running-config | include mpls

no mpls ip
Router#

Cisco IOS XR ã,½ãf•ãf^ã,|ã,§ã,ç

Cisco IOS

XRã,½ãf•ãf^ã,|ã,§ã,çã♦§ã~ã€♦MPLSã•ã,©ãƒ~ãf¼ãf‡ã,£ãf³ã,°ã♦~ãf‡ãf•ã,©ãƒ«ãf^ã♦§ç„jåŠ¹ã♦«ã♦ã♦§

MPLSè»çé€♦ã♦CEæœ‰oåŠ¹ã♦«ã♦~ã♦£ã♦|ã„ã,<ãƒ‡ãf♦ã,¤ã,¹ã♦§ã~ã€♦è~å®šã♦«ã,°ã♦
ldp♦CEå♦«ã♦¾ã,CEã♦|ã„ã,ã♦¾ã♦™ã€,æ¬jã♦®ä¾ã?~ã€♦MPLSã•ã,©ãƒ~ãf¼ãf‡ã,£ãf³ã,°ã♦
 IOS XRã,½ãf•ãf^ã,|ã,§ã,çãƒ‡ãf♦ã,¤ã,¹ã,'ç¤ºã?—ã♦|ã„ã,ã♦¾ã♦™ã€,

```
RP/0/0/CPU0:Router-XR#show running-config mpls  
mpls ldp  
!
```

```
RP/0/0/CPU0:Router-XR#
```

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```
RP/0/0/CPU0:Router-XR#show running-config mpls  
% No such configuration item(s)
```

```
RP/0/0/CPU0:Router-XR#
```

MPLSäŒç„¡åŠ¹ã«ãã£ã|ã,,ã,<åå^ã€äf‡äf‡ã,¤ã,¹ãè,,†å¼±ã§ããã
2. äf‡äf‡ã,¤ã,¹ãŒELDP
helloäfjäffã,»äf½ã,ã,'å—ä¿;ã—ã|ã,,ã,<ã<ã©ã†ã<ã,'ç°èªã—ã¾ã™ã€,
äf‡äf‡ã,¤ã,¹ãŒELDP
helloäfjäffã,»äf½ã,ã,'äf¤äffã,¹äf³ã™ã,¤ã,^ã†ã«è ¨ å®šã•ã,Œã|ã,,ã,<åå^ã€ã

Cisco IOS Software and Cisco IOS XE Software

äf‡äf‡ã,¤ã,¹ãŒELDP

helloäfjäffã,»äf½ã,ã,'äf¤äffã,¹äf³ã™ã,¤ã,^ã†ã«è ¨ å®šã•ã,Œã|ã,,ã,<ã<ã©ã†ã
ip socketäshow udpäã¾ãÝãshow control-plane host open-
portsä®ã,,ãšã,Œã<ã,'ç™øè;Œã—ã¾ã™ã€,å±ºåŠ›ã«äfäf½äf^UDP
646ä§ãäffã,¹äf³ã—ã|ã,,ã,helloäfjäffã,»äf½ã,ã,'äf¤äffã,¹äf³ã™ã,¤ã,^ã†ã«è ¨ å®šã•ã,Œã|ã,,ã,<äf‡äf‡ã,¤ã,¹ã

```
<#root>
```

```
Router#
```

```
show ip socket
```

Proto	Remote	Port	Local	Port	In	Out	Stat	TTY	OutputIF
17	--listen--		192.168.0.1	67	0	0	1	0	
17	--listen--		192.168.0.1	68	0	0	1	0	
17	--listen--		192.168.0.1	711	0	0	1	0	
17	--listen--		192.168.0.1	646	0	0	1	0	
17	--listen--		192.168.0.1	3503	0	0	1	0	

```
Router#
```

```
<#root>

Router#  

show udp  
  

Proto      Remote          Port      Local          Port      In   Out  Stat  TTY  OutputIF  

 17    --listen--        192.168.0.1      123      0   0   1   0  

 17    --listen--        192.168.0.1      711      0   0   1   0  

 17    --listen--        192.168.0.1      646      0   0   1   0  

 17    --listen--        192.168.0.1      3503     0   0   1   0  

Router#
```

```
<#root>  

Router#  

show control-plane host open-ports  
  

Active internet connections (servers and established)
Prot      Local Address      Foreign Address      Service      State
  tcp      *:23            *:0                  Telnet      LISTEN
  udp      *:123           *:0                  NTP        LISTEN
  udp      *:646           *:0                  LDP Hello  LISTEN
  udp      *:711           *:0                  TDP Hello  LISTEN  

Router#
```

Cisco IOS XR あ,½あf•あf^あ,!あ,§あ,¢

あf†あf♦あ,¤あ,¹あ♦CELDP
helloあfjあffã,»あf¼あ,あ,'あf¤あffã,¹あf³あ♦TMあ,[あ,^あ♦tã♦«è](#) "あ®šã♦•あ,CEあ♦!あ♦,,あ,[あ♦](#)あ♦©あ♦tã♦
udp brief CLIあ,³あfžあf³あf%oあ,'çTMºè;CEあ♦—あ♦¾あ♦TMあ€,あ‡ºあŠあ♦«あf♦あf¼あf^UDP
646あ♦Sあf¤あffã,¹あf³あ♦—あ♦!あ♦,,あ,[IPあ,¢あf%oあf-あ,¹あ♦CEç¤ºあ♦•あ,CEあ♦!あ♦,,あ,\[あ'あ♦^あ€あ♦\]\(#\)
helloあfjあffã,»あf¼あ,あ,'あf¤あffã,¹あf³あ♦TMあ,\[あ,^あ♦tã♦«è\]\(#\) "あ®šã♦•あ,CEあ♦!あ♦,,あ,\[あf‡あf♦あ,¤あ,¹あ♦\]\(#\)](#)

```
<#root>  

RP/0/0/CPU0:Router-XR#  

show udp brief  
  

PCB      Recv-Q  Send-Q  Local Address      Foreign Address  

0x482609e8      0       0  ::::514          ::::0
```

```
0x482605f0      0      0  0.0.0.0:514      0.0.0.0:0
0x48260720      0      0  0.0.0.0:646      0.0.0.0:0
```

RP/0/0/CPU0:Router-XR#

af#af#ã,¤ã,¹ãŒUDPaf#ãf%4ãf^646ã,'af#ffã,¹af#—ã#|ã#,,ã#ã#,,å`å#^ã€#ã#“ã#
Reservation

Protocoli¼^RSVPi¼>ãf#ã,½ãf%4ã,¹ã#^ç‘,„f—ãf#f^ã,³ãf<i¼%oã#¾ã#Ýã#—Border
Gateway

Protocoli¼^BGPi¼>ãfœãf%4ãf#ã,²ãf%4ãf^ã,|ã,§ã,¤ãf—ãf#f^ã,³ãf<i¼%oã#®ã#¿ã,'ä½¿ç”“ã#

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ãf#ãf#ãf%4ã,¹ã,’çÇºèª#ã#™ã,<ã#«ã#—ã#€#ãf#ã,¤ã,¹ã#«ãfã,ºã,¤ãf#ã#—ã#| show
version ã,³ãf#ãf#ãf%oã,’ä½¿ã#£ã#|ã#€#ã,·ã,¹ãftãf

ãf#ãf#ãf%4ã,’è¡”çº#ã#—ã#¾ã#™ã€,"Internetwork Operating System Software"ã€#Cisco
IOS Software"ã#ã,ã,<ã#,,ã#—ã#”ã,Œã,%oã#«éžä¼¼ã#™ã,<ã,ã,·ã,¹ãftãf
ãf#ãf#ãf%4ã#«ã,^ã#£ã#|ãf#ãf#ã,¤ã,¹ã#§ Cisco IOS
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ã##ã#ã#®å¾Œã,♦ã#«ã,¤ãf#ãf%4ã,å#ã#ã#Œæ<-å¼§ã#®é—“ã#«è¡”çº#ã#•ã,Œã€#ç¶šã#,,ã#|
"Version"ã# Cisco IOS ã,½ãf#ãf^ã,|ã,·ã,ç
ãf#ãf#ãf%4ã,¹ã#ã#ã#Œè¡”çº#ã#•ã,Œã#¾ã#™ã€,ã»—ã#®ã,·ã,¹ã,³
ãf#ãf#ã,¤ã,¹ã#§ã#—ã#€#show version
ã,³ãf#ãf#ãf%oã#Œå~åœ”ã#—ã#ã#ã#£ã#Ýã,§ã€#å^¥ã#®å#åŠ,ã#Œè¡”çº#ã#•ã,Œã#Ýã

æ¬;ã#®å¾ã#—ã#€#Cisco
IOSã,½ãf#ãf^ã,|ã,§ã,çãf#ãf#ãf%4ã,¹12.3(26)ã,’å®Ýè¡Œã#—ã#€#ã,¤ãf#ã,¹ãf#ãf%4ãf<ã#•ã,Œã#|ã#,,ã
IS-Lã#§ã#ã,ã,<ã,·ã,¹ã,³è£½å“♦ã,’çº#ã#—ã#|ã#,,ã#¾ã#™ã€,

<#root>

Router#

show version

Cisco Internetwork Operating System Software
IOS (tm) 2500 Software (C2500-IS-L), Version 12.3(26), RELEASE SOFTWARE (fc2)
Technical Support: <http://www.cisco.com/techsupport>
Copyright) 1986-2008 by cisco Systems, Inc.
Compiled Mon 17-Mar-08 14:39 by dchih

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æ¬;ã®ä¾ã™ã€Cisco

IOSã½äf•äf^ã,|ã,§ã,çäfäfäf¼ã,¹12.4(20)Tã,’å®Yè;Œ—ã€ã,¤äf;äf¼ã,å♦ãœãŒC1841-ADVENTERPRISEK9-Mã®èf½å”♦ã,’ç¤ºã—ã♦|ã„ã¾ã™ã€,

<#root>

Router#

show version

Cisco IOS Software, 1841 Software (C1841-ADVENTERPRISEK9-M), Version 12.4(20)T, RELEASE SOFTWARE (fc3
Technical Support: <http://www.cisco.com/techsupport>
Copyright) 1986-2008 by Cisco Systems, Inc.
Compiled Thu 10-Jul-08 20:25 by prod_rel_team

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Cisco

IOSã½äf•äf^ã,|ã,§ã,çäfäfäf¼ã,¹ã®å½å”♦è|♦å‰‡ã®è;½åŠ æf...å±ã—ã€<http://www.cisco.com/techsupport/ref.html>ãœWhite Paper: Cisco IOS Reference
Guideã€ãœ§çÇ°èªãœ§ãœã¾ã™ã€,

è,,†å½±æ€§ã,’åœ«ã,”ãœ§ãœ,,ãœäœ„ãœ”ãœ“ãœŒçÇ°èªãœ•ã,CæœYèf½å”♦

- Cisco NX-OSã½äf•äf^ã,|ã,§ã,çäf—è©²å½”ã—ã¾ãœ»ã,“ã€,
- Cisco IOS

XRã½äf•äf^ã,|ã,§ã,çäfäfäf¼ã,¹3.5.2ä»¥é™♦ã—å½±éYçã,’åœ—ã¾ãœ»ã,“ã€,

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MPLS LDPã, ’æ½ç”“ãœ™ã,[ãœMPLSäf♦äffäf”äf—äf¼ã,“å±…ãœ®Peer Label Switch
Routerï¼^LSRï¼>äf”ã,çäf©äf™äf«ã,¹ã,¤äffäf♦äf“äf¼ã,¿ï¼‰œ§ã€♦MPLSäf♦äffäf”äf—äf¼ã,“å±…ãœ](http://www.cisco.com/techsupport/ref.html)

Cisco IOSã½äf•äf^ã,|ã,§ã,çä€œCisco IOS XEã½äf•äf^ã,|ã,§ã,çä€œãœ§ã,“ãœ³Cisco IOS
XRã½äf•äf^ã,|ã,§ã,çäœ«ãœ—ã€œç‰¹å^¥ãœ«å·§ã|™ãœ“ç‘°å·¥ãœ•ã,CæœYLDPäf”ã,±äffäf”ã,‘å‡|çœhelloäf;äffä,»äf¼ã,ã,’å‡|çœ†ãœ™ã,<ã,“ãœ†ãœ“è“å®šãœ•ã,Cæœ|ãœ„ã,“å‡…è|œãœŒãœ,ã,§ãœ¾ãœ

å·§ã|™ãœ“ç‘°å·¥ãœ•ã,CæœYLDPäf”ã,±äffäf”ã—ã€œäf!äfã,äf£ã,¹äf—äf¾ãœYãœ—äfžäf“äf♦ã,äf£ã646ãœ§ã—äjãœ§ãœãœ¾ãœ™ã€,é€šéœZäfäf©äf·ã,£äffä,“ãœ—ãœ“ãœ®è,,†å½±æ€§ã,’å¼•ãœ

æœï¼^TDPœŒè“å®šãœ•ã,CæœYäf‡äf♦ã,¤ã,¹ãœ—ã€œå·§ã|™ãœ“ç‘°å·¥ãœ•ã,CæœYLDPäf”ã,±äffäf

MPLSãš, ^ãš³LDPãš®è©³ç°ã«ãš¤ã„ãš—ã€æ¬jãš®ãƒ¤ãƒã, —ãš«ãš, ã, ã€Œãƒžãƒ«ã

http://www.cisco.com/en/US/products/ps6557/products_ios_technology_home.html

ã“ãš®è,, †å¼±æ€§ãš—ã€Cisco IOSã½ãf•ãf^ã, |ã, §ã, ¢ãš, ^ãš³Cisco IOS
XEã½ãf•ãf^ã, |ã, §ã, ¢ãš®å`åš—ãšCisco Bug ID
CSCsz45567(ç™»éŒ²ãf|ãf¼ã, ¶å°, ç”“)ã€Cisco IOS
XRã½ãf•ãf^ã, |ã, §ã, ¢ãš®å`åš—ãšCSCsj25893((ç™»éŒ²ãf|ãf¼ã, ¶å°, ç”“)ãš«è~è¼‰ãš•ã, ¢ãš|ã
Vulnerabilities and Exposures(CVE)IDãš—ãš|CVE-2010-
0576ã€Œå‰²ã, Šå½“ãš|ã, %oã, ¢ãš|ãš, ¢ãš¾ãš™ã€,

å›žéš¿ç-

ã“ãš®è,, †å¼±æ€§ãš®å½±é¥¿ã, ’æŠ’ãš^ã, <ãš¤ã«ã€¢ç·©å’Œç-ã, ’é¢¢ç”“ãš™ã, <ãš¤ã“ãš”“ã
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æ³ï¼šLDPãf“ã, ‘ãf-ãf¼ãf‰oãš¾ãš¤ãšYãš—MD5ãš—ãš·ãš§ãš—ãš¤ã“ãš®è,, †å¼±æ€§ãš«å—¾ãš™ã,
é€šéçžãf^ãf©ãf, ¤ãffã, —ãš—ãš“ãš®è,, †å¼±æ€§ã, ’ã, ¢æ£å`ç”“ãš—ãš¾ãš>ã, “ã€, ãš“ãš®è,, †å
ãf¤ãffãf^ãf-ãf¼ã, —åt...ãš®Ciscoãf¤ã, ¤ã, ¹ãš«é¢¢ç”“åš—èf½ãš¤ã—ãš®ç·ç·ã’Œç-ãš«ãš¤ã
IOSã½ãf•ãf^ã, |ã, §ã, ¢ãš®ãfžãf«ãf¤ã—ãfãf^ã, ³ãf«ãf©ãf™ãf«ã, ¹ã, ¤ãffãf¤ãf³ã, °ãfã, ±ãfãf^ãš®è,,
[amb-20100324-1dp](#))ã€,

ã¤ãf³ãf•ãf©ã, ‘ãf^ãf©ã, -ãf¤ãfFã, ¢ã, —ã, »ã, ¹ã, ³ãf³ãf^ãf¤ãf¼ãf«ãf¤ã, ¹ãf^
è!å•Šíï¼šã“ãš®è,, †å¼±æ€§ãš®æ©Yèf½ãš—ãf^ãf©ãf³ã, ¹ãf¤ãf¼ãf^ã“ãš—ãš|UDPã, ‘ä½ç”“ã
Reverse Path
Forwardingï¼^ãf|ãf<ã, ãf¤ã, ¹ãf^RPFï¼‰oã, , è€fæ...®ãš™ã, ¢...è|ãš¤ãŒãš, ã, Šãš¾ãš™ã€,
ãf¤ãffãf^ãf-ãf¼ã, —ã, ’é€šéçžãš™ã, <ãf^ãf©ãf•ã, ¤ãffã, —ã, ’ãf-ãfãffã, —ãš™ã, <ãš“ã“ãš—ãš“æ‰é›æ¤ã

!----

!---- Feature: Label Distribution Protocol (LDP)

!----

```
access-list 150 permit udp TRUSTED_SOURCE_ADDRESSES  
WILDCARD INFRASTRUCTURE_ADDRESSES WILDCARD eq 646
```

```
access-list 150 permit udp TRUSTED_SOURCE_ADDRESSES
```

```
WILDCARD host 224.0.0.2 eq 646
```

```
!----  
!---- Deny LDP traffic from all other sources destined  
!---- to infrastructure addresses, including multicast  
!---- and broadcast addresses.  
!----
```

```
access-list 150 deny udp any 224.0.0.0 0.0.0.255 eq 646  
access-list 150 deny udp any host 255.255.255.255 eq 646  
access-list 150 deny udp any  
    INFRASTRUCTURE_ADDRESSES WILDCARD eq 646
```

```
!----  
!---- Permit/deny all other Layer 3 and Layer 4 traffic in  
!---- accordance with existing security policies and  
!---- configurations. Permit all other traffic to transit the  
!---- device.  
!----
```

```
access-list 150 permit ip any any
```

```
!----  
!---- Apply access-list to all interfaces (only one example  
!---- shown)  
!----
```

```
interface fastEthernet 2/0  
ip access-group 150 in
```

Protecting Your Core: Infrastructure Protection Access Control

Lists the following access lists:

1. **192.168.1.0/24** (CoPP) - Protects against broadcast and multicast traffic.

2. **192.168.1.0/24** (LDP) - Protects against Label Distribution Protocol traffic.

3. **192.168.1.0/24** (12.0S) - Protects against Cisco IOS Software version 12.0S and later.

```
!----  
!---- Feature: Label Distribution Protocol (LDP)  
!----
```

```
access-list 150 deny udp TRUSTED_SOURCE_ADDRESSES  
    WILDCARD any eq 646
```

```
!----  
!---- Deny LDP traffic from all other sources destined  
!---- to the device control plane.  
!----
```

```
access-list 150 permit udp any any eq 646
```

```
!----  
!---- Permit (Police or Drop)/Deny (Allow) all other Layer3 and  
!---- Layer4 traffic in accordance with existing security policies  
!---- and configurations for traffic that is authorized to be sent  
!---- to infrastructure devices  
!---- Create a Class-Map for traffic to be policed by  
!---- the CoPP feature  
!----
```

```
class-map match-all drop-ldp-class  
    match access-group 150
```

```
!----  
!---- Create a Policy-Map that will be applied to the  
!---- Control-Plane of the device.  
!----
```

```
policy-map control-plane-policy  
    class drop-ldp-class  
        drop
```

```
!----  
!---- Apply the Policy-Map to the  
!---- Control-Plane of the device  
!----
```

```
control-plane  
    service-policy input control-plane-policy
```

ã,Šè~~ã◆®CoPPã◆®ä¾ã◆§ã◆~ã€◆æ,ºç”“ã◆®å◆~èf½æ€§ã◆Œã◆,ã,«ãf'ã,±ãffãf~ã◆~ã€Œpermit
mapã◆®æ§æ-‡ã◆~ã€◆12.2Sã◆~12.0Sã◆®Cisco
IOSã,½ãf•ãf^ã,|ã,§ã,çãf^ãf~ã,¤ãf³ã◆§ã◆~ç•ºã◆ªã,«ã◆~ã◆«æ³~æ,,?ã◆—ã◆|ã◆?ã◆ã◆ã◆•ã◆

```
policy-map control-plane-policy
```

```
class drop-udp-class
police 32000 1500 conform-action drop exceed-action drop
```

CoPPæ©Ýèf½ã♦®è „å®šã♦ “ä½ç””ã♦«ã♦¤ã♦,,ã♦|ã♦®è©³ç’°ã♦—ã€♦æ¬jã♦®ãƒ¤ãƒ³ã, —ã♦«ã♦,,
Plane Policing Implementation Best Practicesæ€♦ã♦Šã, ^ã♦³ã€ŽCisco IOS Software Releases

12.2 S - Control Plane

Policingæ€♦ã,’å♦,ç...§ã♦—ã♦|ã♦♦ã♦ã♦•ã♦,,ã€,http://www.cisco.com/web/about/security/intelligence/

å♦—ä¿¡ACL(rACL)

è!‘Ší¼šã♦“ã♦®è,,†å¼±æ€§ã♦®æ©Ýèf½ã♦—ãƒ^ãƒ©ãƒ³ã, ^ãƒ¤ãƒ¼ãƒ^ã♦ “ã♦—ã♦|UDPã,’ä½ç””ã

å^†æ•£åž<ã♦®ãƒ—ãƒ©ãffãƒ^ãƒ•ã, ©ãƒ¼ãƒ ã♦«ã♦Šã♦,,ã♦|ã♦—ã€♦Cisco12000
ã, ,ãƒ¤ãƒ¼ã, °(GSR) ã♦§ã♦— 12.0(21)S2ã♦ Cisco7500 ã, ·ãƒ¤ãƒ¼ã, °ã♦§ã♦—
12.0(24)Sã♦Cisco10720 ã, ·ãƒ¤ãƒ¼ã, °ã♦§ã♦— 12.0(31)S ã♦® IOS
ã, ½ãƒ•ãƒ^ã, |ã, §ã, Çã♦«ã♦|ã, µãƒ¤ãƒ¼ãƒ^ã♦•ã, ÇEã♦|ã♦,,ã,< Receive ACL
ã, ,é♦, æŠžè, Çã♦“ã♦¤ã, Šã♦¾ã♦™ã€, å♦—ä¿¡ ACL ã♦—ã€♦ãƒ¤ãƒ¼ãƒ^
ãƒ—ãƒã, »ãffã, µã♦ÇEæœ%oå®³ã♦¤ãƒ^ãƒ©ãƒ•ã, £ãffã, —ã♦®å½±éÝžã,’å♦—ã♦’ã, <å%oã♦ã♦«ã€♦ã♦¤ã♦
ACL

ã♦—ã€♦ã♦¤ã♦ã, ÇEã♦CEè „å®šã♦•ã, ÇEã♦Ýãftãf♦ã, , 1ã♦®ã♦¤ã, ’ä¿¡è·ã♦™ã, <è „^ã♦«ã♦¤ã♦£ã
12000, 7500, 10720 ã♦§ã♦—é€šé♦žãf^ãf©ãf•ã, £ãffã, —ã♦— Receive ACL
ã♦«ã, ^ã, <å½±éÝžã,’å♦—ã♦’ã♦¾ã♦>ã, ”ã€, ã♦“ã♦®ã♦Ýã, , ã€♦ä»¥ã, <ã♦® ACL
ã♦®¤¾ã♦«ã♦Šã♦,,ã♦|å®>å...^ IP ã, ,çãf%oãf¬ã, ^ "any"
ã♦ÇE””ã♦,,ã, %oã, ÇEã♦|ã, ,ã€♦è‡¤ãf¤¾ã, , ã♦®ç%oç♦†ã♦, ã, <ã♦,,ã♦—ä¿¡®æf³ IP
ã, ,çãf%oãf¬ã, ^ "any"
ã♦—ãf¤ãffãf^ãf¤¾ã, —ã, »ã, ,ãf¥ãf¤ãftã, £ã♦®ãf™ã, ^ "any"
ãf—ãf©ã, —ãftã, £ã, ^ "è€fã♦^ã, %oã, ÇEã♦|ã♦Šã, , ã€♦ä»“ã♦”ã♦§ã♦®ç%o^ "ã♦®å®šã♦®è,, †å¼±æ€§ã
ã, »ã, ,ãf¥ãf¤ãftã, £ã♦, ,ã♦®é•æœÝç„ã♦¤ã, ”åŠ æ©Ýèf½ã♦ “ã♦—ã♦|è€fæ...®ã♦™ã, <å¿...è| , ã♦ÇE
Receive Access Control

Listsæ€♦ã♦—ã€♦ãf¤ãf♦ã, , 1ã♦, ,ã♦®æf¤å½“ã♦¤ãf^ãf©ãf•ã, £ãffã, —ã, ,ç%o^ "ã♦®ã, ,çãf—ã♦®ãf¤ãf©ãf•ã, £ãffã, —ã♦| è „±å♦—ã♦

ã♦“ã, ÇEã♦—ã€♦ä¿¡é ¼ã♦§ã♦¤ã, <ãfã, ^ "any", ,ç%oã♦®ã, ”ã♦®ã, ,çãf—ã♦®ãf¤ãf©ãf•ã, £ãffã, —ã♦| è „±å♦—ã♦

!---

!--- Feature: Label Distribution Protocol (LDP)

!---

!---

```
!---- Permit LDP traffic from all trusted sources allowed
!---- to infrastructure addresses.
!----
```

```
access-list 150 permit udp TRUSTED_SOURCE_ADDRESSES WILDCARD
    any eq 646
```

```
!----
!---- Deny LDP traffic from all other sources destined
!---- to infrastructure addresses.
!----
```

```
access-list 150 deny udp any any eq 646
```

```
!----
!---- Permit all other traffic to the RP.
!---- according to security policy and configurations.
!----
```

```
access-list 150 permit ip any any
```

```
!----
!---- Apply this access list to the 'receive' path.
!----
```

```
ip receive access-list 150
```

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To contact the Cisco TAC, you can call the toll-free number or visit the Cisco website:

Telephone: +1 800 553 2902
Email: psirt@cisco.com
Website: <http://www.cisco.com/go/psirt>

The Cisco TAC is available 24 hours a day, 7 days a week, for urgent technical support. You can also submit a service request online through the Cisco website.

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1 ä¿®æ£æ,^ã♦¿ãƒ¤ãƒ¤ãƒ¼ã,¹ã€♦å^—ã♦«è „~è½‰ã♦•ã,Œã♦¾ã♦™ã€,ã€ŒFirst Fixed Release for all Advisories in 24 March 2010 Bundle Publicationã♦å^—ã♦—ã€♦ã♦“ã♦®Cisco IOSã»ã,ãƒ¥ãƒ¤ãƒ†ã,£ã,çãƒ‰ãƒ♦ã,¤ã,¶ãƒ¤ãƒ♦ãƒ³ãƒ‰ãƒ«å...¬é¬ã♦§å...¬é¬ã♦•ã,Œã♦!ã♦,ã,ã♦™ã

ãƒ¡ã,ãƒ¤ãƒ¼ãƒ¤ãƒ¤ãƒ¼ã,¹	
Affected 12.0-Based Releases	
12.0	è,,†å¼±æ€§ã♦ªã♦—
12.0DA	è,,†å¼±æ€§ã♦ªã♦—
12.0DB	è,,†å¼±æ€§ã♦ªã♦—
12.0DC	è,,†å¼±æ€§ã♦ªã♦—
12.0S	12.0(32)S15ï¼2010å¹‘3æœ^25æ—¥ã♦«å...¥æ‰oå♦—èf½i¼‰o 12.0(33)S6
12.0SC	è,,†å¼±æ€§ã♦ªã♦—
12.0SL	è,,†å¼±æ€§ã♦,ã,Š(æœ€å^♦ã♦®ä¿®æ£ã♦— 12.0S) 12.0(14)SL1ä»¥å‰oã♦ã♦®ãƒ¤ãƒ¤ãƒ¼ã,¹ã♦«ã♦—è,,†å¼±æ€§ã♦—ã♦,ã,Šä
12.0SP	è,,†å¼±æ€§ã♦ªã♦—
12.0ST	12.0(9)STä»¥å‰oã♦ã♦®ãƒ¤ãƒ¤ãƒ¼ã,¹ã♦«ã♦—è,,†å¼±æ€§ã♦—ã♦,ã,Šã♦
12.0SX	è,,†å¼±æ€§ã♦,ã,Š(æœ€å^♦ã♦®ä¿®æ£ã♦— 12.0S)

12.0SY	12.0(32)SY11 12.0(32)SY9b
12.0SZ	è,,†å¼±æ€§ãš,ãš(æœ€å^ãšãš®ä¿®æ£ãš— 12.0S)
12.0T	è,,†å¼±æ€§ãšãš—
12.0W	è,,†å¼±æ€§ãšãš—
12.0WC	è,,†å¼±æ€§ãšãš—
12.0WT	è,,†å¼±æ€§ãšãš—
12.0XA	è,,†å¼±æ€§ãšãš—
12.0XB	è,,†å¼±æ€§ãšãš—
12.0XC	è,,†å¼±æ€§ãšãš—
12.0XD	è,,†å¼±æ€§ãšãš—
12.0XE	è,,†å¼±æ€§ãšãš—
12.0XF	è,,†å¼±æ€§ãšãš—
12.0XG	è,,†å¼±æ€§ãšãš—
12.0XH	è,,†å¼±æ€§ãšãš—

12.0XI	è,,†å¼±æ€§ã¤ªã¤—
12.0XJ	è,,†å¼±æ€§ã¤ªã¤—
12.0XK	è,,†å¼±æ€§ã¤ªã¤—
12.0XL	è,,†å¼±æ€§ã¤ªã¤—
12.0XM	è,,†å¼±æ€§ã¤ªã¤—
12.0XN	è,,†å¼±æ€§ã¤ªã¤—
12.0XQ	è,,†å¼±æ€§ã¤ªã¤—
12.0XR	è,,†å¼±æ€§ã¤ªã¤—
12.0XS	è,,†å¼±æ€§ã¤ªã¤—
12.0XT	è,,†å¼±æ€§ã¤ªã¤—
12.0XV	è,,†å¼±æ€§ã¤ªã¤—
Affected 12.1-Based Releases	
12.1	è,,†å¼±æ€§ã¤ªã¤—
12.1AA	è,,†å¼±æ€§ã¤ªã¤—
12.1AX	è,,†å¼±æ€§ã¤ªã¤—,ãŠã€¢æœ€å^¢ã¤®ã¤—

[12.2SE](#)

	12.1(11)AXä»¥å‰¤ã♦®ãƒ¤ãƒ¤ãƒ¼ã,¹ã♦«ã♦¬è,,†å¼±æ€§ã♦¬ã♦,ã,Šã
12.1AY	è,,†å¼±æ€§ã♦ªã♦—
12.1AZ	è,,†å¼±æ€§ã♦ªã♦—
12.1CX	è,,†å¼±æ€§ã♦ªã♦—
12.1DA	è,,†å¼±æ€§ã♦ªã♦—
12.1DB	è,,†å¼±æ€§ã♦ªã♦—
12.1DC	è,,†å¼±æ€§ã♦ªã♦—
12.1E	è,,†å¼±æ€§ã♦,ã,Š(æœ€å^♦ã♦®ã¿®æ£ã♦¬ 12.2SXF) 12.1(8a)Eã♦¾ã♦§ã♦®ãƒ¤ãƒ¤ãƒ¼ã,¹ã♦«ã♦¬è,,†å¼±æ€§ã♦¬ã♦,ã,Šã
12.1EA	12.1(22)EA14i¼^2010å¹”æœ^27æ—¥ã♦«å...¥æ‰¤å♦¬èf½i¼‰
12.1EB	è,,†å¼±æ€§ã♦,ã,Šã€,ã♦“ã♦®ã,çãƒ‰¤ãƒ♦ã,¤ã,¶ãƒ¤ã♦®ã€Œä,®æ£æ,^
12.1EC	è,,†å¼±æ€§ã♦,ã,Š(æœ€å^♦ã♦®ã¿®æ£ã♦¬ 12.2SCB) 12.1(7)ECä»¥å‰¤ã♦®ãƒ¤ãƒ¤ãƒ¼ã,¹ã♦«ã♦¬è,,†å¼±æ€§ã♦¬ã♦,ã,Šã
12.1EO	12.1(19)EO6ä»¥å‰¤ã♦®ãƒ¤ãƒ¤ãƒ¼ã,¹ã♦«ã♦¬è,,†å¼±æ€§ã♦¬ã♦,ã,Šã
12.1EU	è,,†å¼±æ€§ã♦ªã♦—
12.1EV	è,,†å¼±æ€§ã♦ªã♦—

12.1EW	è,,†å¼±æ€§ãªã◊—
12.1EX	è,,†å¼±æ€§ã◊,ã,Šã€,12.2ã◊®ä»»æ,,ã◊®ãƒªãƒªãƒ¼ã,¹ã◊«ç§»è¡Œ 12.1(6)EXä»¥å‰◊ã◊®ãƒªãƒªãƒ¼ã,¹ã◊«ã◊—è,,†å¼±æ€§ã◊—ã◊,ã,Šã◊—
12.1EY	12.1(7a)EY3ä»¥å‰◊ã◊®ãƒªãƒªãƒ¼ã,¹ã◊«ã◊—è,,†å¼±æ€§ã◊—ã◊,ã,Šã◊—
12.1EZ	è,,†å¼±æ€§ãªã◊—
12.1GA	è,,†å¼±æ€§ãªã◊—
12.1GB	è,,†å¼±æ€§ãªã◊—
12.1T	è,,†å¼±æ€§ãªã◊—
12.1XA	è,,†å¼±æ€§ãªã◊—
12.1XB	è,,†å¼±æ€§ãªã◊—
12.1XC	è,,†å¼±æ€§ãªã◊—
12.1XD	è,,†å¼±æ€§ãªã◊—
12.1XE	è,,†å¼±æ€§ãªã◊—
12.1XF	è,,†å¼±æ€§ãªã◊—
12.1XG	è,,†å¼±æ€§ãªã◊—

12.1XH	è,,†å¼±æ€§ã¤ªã¤—
12.1XI	è,,†å¼±æ€§ã¤ªã¤—
12.1XJ	è,,†å¼±æ€§ã¤ªã¤—
12.1XL	è,,†å¼±æ€§ã¤ªã¤—
12.1XM	è,,†å¼±æ€§ã¤ªã¤—
12.1XP	è,,†å¼±æ€§ã¤ªã¤—
12.1XQ	è,,†å¼±æ€§ã¤ªã¤—
12.1XR	è,,†å¼±æ€§ã¤ªã¤—
12.1XS	è,,†å¼±æ€§ã¤ªã¤—
12.1XT	è,,†å¼±æ€§ã¤ªã¤—
12.1XU	è,,†å¼±æ€§ã¤ªã¤—
12.1XV	æ³·í¼š12.1(5)XV1ã,^ã,Šå‰¤ã¤®ã¤ªã¤—è,,†å¼±æ€§ã¤ªã¤—
12.1XW	è,,†å¼±æ€§ã¤ªã¤—
12.1XX	è,,†å¼±æ€§ã¤ªã¤—
12.1XY	è,,†å¼±æ€§ã¤ªã¤—

12.1XZ	è,,†å¼±æ€§ãªã—
12.1YA	è,,†å¼±æ€§ãªã—
12.1YB	è,,†å¼±æ€§ãª,ã,Šã€,12.2ã®ä»»æ,,ã®ãƒªãƒªãƒ¼ã,¹ã«ç§»è;Œ
12.1YC	è,,†å¼±æ€§ãªã—
12.1YD	è,,†å¼±æ€§ãª,ã,Šã€,12.2ã®ä»»æ,,ã®ãƒªãƒªãƒ¼ã,¹ã«ç§»è;Œ
12.1YE	12.1(5)YE1ã,^ã,Šå‰ã®ãƒªãƒªãƒ¼ã,¹ã«ã¯è,,†å¼±æ€§ãªŒã,ã
12.1YF	è,,†å¼±æ€§ãªã—
12.1YH	è,,†å¼±æ€§ãªã—
12.1YI	è,,†å¼±æ€§ãªã—
12.1YJ	è,,†å¼±æ€§ãªã—
Affected 12.2-Based Releases	
12.2	è,,†å¼±æ€§ãªã—
12.2B	è,,†å¼±æ€§ãª,ã,Šã€,15.0Mã¾ãŸã¯ä¿®æ£æ,^ã¿12.4ãƒªãƒªãƒ¼
12.2BC	è,,†å¼±æ€§ãª,ã,Šã€,15.0Mã¾ãŸã¯ä¿®æ£æ,^ã¿12.4ãƒªãƒªãƒ¼
12.2BW	è,,†å¼±æ€§ãª,ã,Šã€,15.0Mã¾ãŸã¯ä¿®æ£æ,^ã¿12.4ãƒªãƒªãƒ¼

12.2BX	è,,†å¼±æ€§ã♦,ã,Šã€,15.0Mã♦¾ã♦Ýã♦—ä¿®æ£æ,^ã♦¿12.4ãƒãƒãƒ¼
12.2BY	12.2(8)BYã,^ã,Šå‰♦ã♦®ãƒãƒãƒ¼ã,¹ã♦«ã♦—è,,†å¼±æ€§ã♦Œã♦,ã,Š
12.2BZ	è,,†å¼±æ€§ã♦,ã,Šã€,15.0Mã♦¾ã♦Ýã♦—ä¿®æ£æ,^ã♦¿12.4ãƒãƒãƒ¼
12.2CX	è,,†å¼±æ€§ã♦,ã,Šã€,15.0Mã♦¾ã♦Ýã♦—ä¿®æ£æ,^ã♦¿12.4ãƒãƒãƒ¼
12.2CY	è,,†å¼±æ€§ã♦,ã,Šã€,15.0Mã♦¾ã♦Ýã♦—ä¿®æ£æ,^ã♦¿12.4ãƒãƒãƒ¼
12.2CZ	è,,†å¼±æ€§ã♦ªã♦—
12.2DA	è,,†å¼±æ€§ã♦ªã♦—
12.2DD	è,,†å¼±æ€§ã♦,ã,Šã€,15.0Mã♦¾ã♦Ýã♦—ä¿®æ£æ,^ã♦¿12.4ãƒãƒãƒ¼
12.2DX	è,,†å¼±æ€§ã♦,ã,Šã€,15.0Mã♦¾ã♦Ýã♦—ä¿®æ£æ,^ã♦¿12.4ãƒãƒãƒ¼
12.2EW	è,,†å¼±æ€§ã♦ªã♦—
12.2EWA	è,,†å¼±æ€§ã♦ªã♦—
12.2EX	12.2(37)EX ã♦¾ã♦§ã♦®ãƒãƒãƒ¼ã,¹ã♦«ã♦—è,,†å¼±æ€§ã♦—ã♦,ã,Š ãƒãƒãƒ¼ã,¹12.2(44)EXä»¥é™♦ã♦«ã♦—è,,†å¼±æ€§ã♦—ã♦,ã,Šã♦¾ã♦
12.2EY	12.2(37)EYã,^ã,Šå‰♦ã♦®ãƒãƒãƒ¼ã,¹ã♦«ã♦—è,,†å¼±æ€§ã♦Œã♦,ã,
12.2EZ	è,,†å¼±æ€§ã♦ªã♦—

12.2FX	è,,†å¼±æ€§ãšªã—
12.2FY	è,,†å¼±æ€§ãšªã—
12.2FZ	è,,†å¼±æ€§ãšªã—
12.2IRA	è,,†å¼±æ€§ãšª,ãŠ(æœ€å^ãã®ä¿®æ£ã— 12.2SRC
12.2IRB	è,,†å¼±æ€§ãšª,ãŠ(æœ€å^ãã®ä¿®æ£ã— 12.2SRC
12.2IRC	è,,†å¼±æ€§ãšª,ãŠã€,ã"ã®ã,çãƒ‰oãƒã,¤ã,¶ãƒªã®ã€Œä¿®æ£æ,^
12.2IRD	è,,†å¼±æ€§i^/4š12.2(33)IREi^/4^2010å¹'4æœ^15æ—¥ã«å...¥æ‰oå—èf½i^
12.2IXA	è,,†å¼±æ€§ãšª,ãŠã€,ã"ã®ã,çãƒ‰oãƒã,¤ã,¶ãƒªã®ã€Œä¿®æ£æ,^
12.2IXB	è,,†å¼±æ€§ãšª,ãŠã€,ã"ã®ã,çãƒ‰oãƒã,¤ã,¶ãƒªã®ã€Œä¿®æ£æ,^
12.2IXC	è,,†å¼±æ€§ãšª,ãŠã€,ã"ã®ã,çãƒ‰oãƒã,¤ã,¶ãƒªã®ã€Œä¿®æ£æ,^
12.2IXD	è,,†å¼±æ€§ãšª,ãŠã€,ã"ã®ã,çãƒ‰oãƒã,¤ã,¶ãƒªã®ã€Œä¿®æ£æ,^
12.2IXE	è,,†å¼±æ€§ãšª,ãŠã€,ã"ã®ã,çãƒ‰oãƒã,¤ã,¶ãƒªã®ã€Œä¿®æ£æ,^
12.2IXF	è,,†å¼±æ€§ãšª,ãŠã€,ã"ã®ã,çãƒ‰oãƒã,¤ã,¶ãƒªã®ã€Œä¿®æ£æ,^
12.2IXG	è,,†å¼±æ€§ãšª,ãŠã€,ã"ã®ã,çãƒ‰oãƒã,¤ã,¶ãƒªã®ã€Œä¿®æ£æ,^
12.2IXH	è,,†å¼±æ€§ãšª,ãŠã€,ã"ã®ã,çãƒ‰oãƒã,¤ã,¶ãƒªã®ã€Œä¿®æ£æ,^

12.2JA	è,,†å¼±æ€§ã¤ªã¤—
12.2JK	è,,†å¼±æ€§ã¤ªã¤—
12.2MB	è,,†å¼±æ€§ã¤ªã¤—
12.2MC	è,,†å¼±æ€§ã¤ªã¤—,ã,Šã€,15.0Mã¤¾ã¤—ä¿®æ£æ,^ã¤—12.4ã¤—
12.2MRA	è,,†å¼±æ€§ã¤ªã¤—
12.2S	12.2(30)Sã, ^ã,Šå‰¤ã¤—®ã¤—ã¤—,^ã¤—è,,†å¼±æ€§ã¤—
12.2SB	12.2(31)SB18i¼^2010å¹’3æœ^24æ—¥ã¤—«å...¥æ‰¤—èf½i¼‰ 12.2(33)SB8
12.2SBC	è,,†å¼±æ€§ã¤—,ã,Šã€¤—æœ€å^—ã¤—®ä¿®æ£ã¤— 12.2SB
12.2SCA	è,,†å¼±æ€§ã¤—,ã,Š(æœ€å^—ã¤—®ä¿®æ£ã¤— 12.2SCB)
12.2SCB	12.2(33)SCB6
12.2SCC	12.2(33)SCC1
12.2SCD	è,,†å¼±æ€§ã¤ªã¤—
12.2SE	12.2(50)SE4i¼^2010å¹’3æœ^25æ—¥ã¤—«å...¥æ‰¤—èf½i¼‰
12.2SEA	è,,†å¼±æ€§ã¤ªã¤—

12.2SEB	è,,†å¼±æ€§ã¤ªã¤—
12.2SEC	è,,†å¼±æ€§ã¤ªã¤—
12.2SED	è,,†å¼±æ€§ã¤,ã,Šã€¤æœ€å^¤ã¤®ä¿®æ£ã¤— 12.2SE
12.2SEE	è,,†å¼±æ€§ã¤,ã,Šã€¤æœ€å^¤ã¤®ä¿®æ£ã¤— 12.2SE
12.2SEF	è,,†å¼±æ€§ã¤ªã¤—
12.2SEG	12.2(25)SEG4ã,^ã,Šå‰¤ã¤®äƒ¤äƒ¤äƒ¼ã,¹ã¤«ã¤—è,,†å¼±æ€§ã¤Œã¤
12.2SG	12.2(31)SG1ä»¥å‰¤ã¤®äƒ¤äƒ¤äƒ¼ã,¹ã¤«ã¤—è,,†å¼±æ€§ã¤—ã¤,ã,Šå‰¤äƒ¤äƒ¤äƒ¼ã,¹12.2(40)SGä»¥é™¤ã¤«ã¤—è,,†å¼±æ€§ã¤—ã¤,ã,Šã¤¾ã¤
12.2SGA	è,,†å¼±æ€§ã¤ªã¤—
12.2SL	è,,†å¼±æ€§ã¤ªã¤—
12.2SM	è,,†å¼±æ€§ã¤ªã¤—
12.2SO	è,,†å¼±æ€§ã¤,ã,Šã€,ã¤“ã¤®ã,çãƒ‰¤äƒ¤ã,¤ã,¶äƒ¤ã¤®ã€Œä,®æ£æ,^
12.2SQ	è,,†å¼±æ€§ã¤ªã¤—
12.2SRA	è,,†å¼±æ€§ã¤,ã,Šã€¤æœ€å^¤ã¤®ä¿®æ£ã¤— 12.2SRD
12.2SRB	è,,†å¼±æ€§ã¤,ã,Šã€¤æœ€å^¤ã¤®ä¿®æ£ã¤— 12.2SRD

12.2SRC	12.2(33)SRC5
12.2SRD	12.2(33)SRD3
12.2SRE	è,,†å¼±æ€§ã♦ªã♦—
12.2STE	è,,†å¼±æ€§ã♦ªã♦—
12.2SU	è,,†å¼±æ€§ã♦,ã,Šã€,15.0Mã♦¾ã♦Ýã♦—ä¿®æ£æ,^ã♦¿12.4ãƒªãƒªãƒ¼
12.2SV	p>12.2(18)SV2ä»¥ã‰♦ã♦®ãƒªãƒªãƒ¼ã,¹ã♦«ã♦—è,,†å¼±æ€§ã♦—ã♦,ã
12.2SVA	è,,†å¼±æ€§ã♦,ã,Šã€,ã♦“ã♦®ã,çãƒ‰oãƒ♦ã,¤ã,¶ãƒªã♦®ã€Œä,®æ£æ,^
12.2SVC	è,,†å¼±æ€§ã♦,ã,Šã€,ã♦“ã♦®ã,çãƒ‰oãƒ♦ã,¤ã,¶ãƒªã♦®ã€Œä,®æ£æ,^
12.2SVD	è,,†å¼±æ€§ã♦,ã,Šã€,ã♦“ã♦®ã,çãƒ‰oãƒ♦ã,¤ã,¶ãƒªã♦®ã€Œä,®æ£æ,^
12.2SVE	è,,†å¼±æ€§ã♦,ã,Šã€,ã♦“ã♦®ã,çãƒ‰oãƒ♦ã,¤ã,¶ãƒªã♦®ã€Œä,®æ£æ,^
12.2SW	12.2(25)SW12ã,^ã,Šå‰♦ã♦®ãƒªãƒªãƒ¼ã,¹ã♦«ã♦—è,,†å¼±æ€§ã♦Œã♦—
12.2SX	è,,†å¼±æ€§ã♦,ã,Š(æœ€å^♦ã♦®ä¿®æ£ã♦— 12.2SXF)
12.2SXA	è,,†å¼±æ€§ã♦,ã,Š(æœ€å^♦ã♦®ä¿®æ£ã♦— 12.2SXF)
12.2SXB	è,,†å¼±æ€§ã♦,ã,Š(æœ€å^♦ã♦®ä¿®æ£ã♦— 12.2SXF)

12.2SXD	è,,†å¼±æ€§ã,ã,Š(æœ€å^♦ã♦®ä¿®æ£ã♦— 12.2SXF)
12.2SXE	è,,†å¼±æ€§ã,ã,Š(æœ€å^♦ã♦®ä¿®æ£ã♦— 12.2SXF)
12.2SXF	12.2(18)SXF17a
12.2SXH	12.2(33)SXH6
12.2SXI	12.2(33)SXI2 12.2(33)SXI2a
12.2SY	è,,†å¼±æ€§ã,ã,Šã€♦æœ€å^♦ã♦®ä¿®æ£ã♦— 12.2SB
12.2SZ	è,,†å¼±æ€§ã,ã,Šã€♦æœ€å^♦ã♦®ä¿®æ£ã♦— 12.2SB
12.2T	è,,†å¼±æ€§ã,ã,Šã€,15.0M♦¾ã♦Ýã♦—ä¿®æ£æ,^ã♦¿12.4ãƒªãƒªãƒ¼
12.2TPC	12.2(8)TPC10aä»¥å‰♦ã♦®ãƒªãƒªãƒ¼ã,¹ã♦«ã♦—è,,†å¼±æ€§ã,ã,Šã€,15.0M♦¾ã♦Ýã♦—ä¿®æ£æ,^ã♦¿12.4ãƒªãƒªãƒ¼
12.2XA	è,,†å¼±æ€§ã,ã,Šã€,15.0M♦¾ã♦Ýã♦—ä¿®æ£æ,^ã♦¿12.4ãƒªãƒªãƒ¼ 12.2(1)XAä»¥å‰♦ã♦®ãƒªãƒªãƒ¼ã,¹ã♦«ã♦—è,,†å¼±æ€§ã,ã,Šã€,15.0M♦¾ã♦Ýã♦—ä¿®æ£æ,^ã♦¿12.4ãƒªãƒªãƒ¼
12.2XB	è,,†å¼±æ€§ã,ã,Šã€,15.0M♦¾ã♦Ýã♦—ä¿®æ£æ,^ã♦¿12.4ãƒªãƒªãƒ¼
12.2XC	è,,†å¼±æ€§ã♦^ã♦—
12.2XD	è,,†å¼±æ€§ã♦^ã♦—
12.2XE	è,,†å¼±æ€§ã♦^ã♦—

12.2XF	è,,†å¼±æ€§ã,ã,Šã€,15.0Mã¾ãÿã—ä¿®æ£æ,^ã¿12.4ãƒãƒãƒ¼
12.2XG	è,,†å¼±æ€§ã,ã,Šã€,15.0Mã¾ãÿã—ä¿®æ£æ,^ã¿12.4ãƒãƒãƒ¼
12.2XH	è,,†å¼±æ€§ãªã—
12.2XI	è,,†å¼±æ€§ãªã—
12.2XJ	è,,†å¼±æ€§ãªã—
12.2XK	è,,†å¼±æ€§ã,ã,Šã€,15.0Mã¾ãÿã—ä¿®æ£æ,^ã¿12.4ãƒãƒãƒ¼
12.2XL	è,,†å¼±æ€§ã,ã,Šã€,15.0Mã¾ãÿã—ä¿®æ£æ,^ã¿12.4ãƒãƒãƒ¼
12.2XM	è,,†å¼±æ€§ãªã—
12.2XN	12.2(33)XN1ã,^ã,Šå‰♦ã®ãƒãƒãƒ¼ã,¹ã«ã—è,,†å¼±æ€§ãŒã,
12.2XNA	Cisco IOS XE ã,½ãƒ•ãƒ^ã, ã,§ã,cã♦®ã—ç”“ æ€§ã,'å♦,ç...§ã—ã♦ ã♦
12.2XNB	Cisco IOS XE ã,½ãƒ•ãƒ^ã, ã,§ã,cã♦®ã—ç”“ æ€§ã,'å♦,ç...§ã—ã♦ ã♦
12.2XNC	Cisco IOS XE ã,½ãƒ•ãƒ^ã, ã,§ã,cã♦®ã—ç”“ æ€§ã,'å♦,ç...§ã—ã♦ ã♦
12.2XND	Cisco IOS XE ã,½ãƒ•ãƒ^ã, ã,§ã,cã♦®ã—ç”“ æ€§ã,'å♦,ç...§ã—ã♦ ã♦
12.2XNE	Cisco IOS XE ã,½ãƒ•ãƒ^ã, ã,§ã,cã♦®ã—ç”“ æ€§ã,'å♦,ç...§ã—ã♦ ã♦
12.2XNF	Cisco IOS XE ã,½ãƒ•ãƒ^ã, ã,§ã,cã♦®ã—ç”“ æ€§ã,'å♦,ç...§ã—ã♦ ã♦

12.2XO	è,,†å¼±æ€§ãªã—
12.2XQ	è,,†å¼±æ€§ãªã—
12.2XR	è,,†å¼±æ€§ãªã—
12.2XS	è,,†å¼±æ€§ãªã—
12.2XT	è,,†å¼±æ€§ãª,ã,Šã€,15.0Mã¾ãŸã—ã¿®æ£æ,^ã¿12.4ãƒªãƒªãƒ¼
12.2XU	è,,†å¼±æ€§ãª,ã,Šã€,15.0Mã¾ãŸã—ã¿®æ£æ,^ã¿12.4ãƒªãƒªãƒ¼
12.2XV	è,,†å¼±æ€§ãª,ã,Šã€,15.0Mã¾ãŸã—ã¿®æ£æ,^ã¿12.4ãƒªãƒªãƒ¼
12.2XW	è,,†å¼±æ€§ãªã—
12.2YA	è,,†å¼±æ€§ãªã—
12.2YB	è,,†å¼±æ€§ãªã—
12.2YC	è,,†å¼±æ€§ãªã—
12.2YD	è,,†å¼±æ€§ãª,ã,Šã€,ã"ã®ã,çãƒ‰ãƒã,¤ã,¶ãƒªã®ã€ä¸®æ£æ,^ã¿12.4ãƒªãƒªãƒ¼
12.2YE	è,,†å¼±æ€§ãªã—
12.2YF	è,,†å¼±æ€§ãªã—
12.2YG	è,,†å¼±æ€§ãªã—

12.2YH	è,,†å¼±æ€§ã¤ªã¤—
12.2YJ	12.2(8)YJ1ã,^ã,Šå‰¤ã¤®ãƒ¤ãƒ¤ãƒ¼ã,¹ã¤«ã¤—è,,†å¼±æ€§ã¤Œã¤,ã,
12.2YK	è,,†å¼±æ€§ã¤ªã¤—
12.2YL	è,,†å¼±æ€§ã¤ªã¤—
12.2YM	è,,†å¼±æ€§ã¤ªã¤—
12.2YN	12.2(8)YN1ã,^ã,Šå‰¤ã¤®ãƒ¤ãƒ¤ãƒ¼ã,¹ã¤«ã¤—è,,†å¼±æ€§ã¤Œã¤,ã,
12.2YO	è,,†å¼±æ€§ã¤ªã¤—
12.2YP	è,,†å¼±æ€§ã¤,ã,Šã€,15.0M¤¾ã¤Ýã¤—ä¿®æ£æ,^ã¤¿12.4ãƒ¤ãƒ¤ãƒ¼ 12.2(8)YPä»¥å‰¤ã¤®ãƒ¤ãƒ¤ãƒ¼ã,¹ã¤«ã¤—è,,†å¼±æ€§ã¤—ã¤,ã,Šã¤
12.2YQ	è,,†å¼±æ€§ã¤ªã¤—
12.2YR	è,,†å¼±æ€§ã¤ªã¤—
12.2YS	è,,†å¼±æ€§ã¤ªã¤—
12.2YT	è,,†å¼±æ€§ã¤,ã,Šã€,ã¤"ã¤®ã,çãƒ‰ãƒ¤ã¤,¤ã,¶ãƒ¤ã¤®ã€Œä¿®æ£æ,^
12.2YU	è,,†å¼±æ€§ã¤ªã¤—
12.2YV	è,,†å¼±æ€§ã¤ªã¤—

12.2YW	è,,†å¼±æ€§ãªã♦—
12.2YX	è,,†å¼±æ€§ã♦,ã,Šã€,ã♦“ã♦®ã,¢ãf‰oãf♦ã,¤ã,¶ãfªã♦®ã€Œä,®æ£æ,^
12.2YY	è,,†å¼±æ€§ã♦,ã,Šã€,ã♦“ã♦®ã,¢ãf‰oãf♦ã,¤ã,¶ãfªã♦®ã€Œä,®æ£æ,^
12.2YZ	è,,†å¼±æ€§ã♦,ã,Šã€,ã♦“ã♦®ã,¢ãf‰oãf♦ã,¤ã,¶ãfªã♦®ã€Œä,®æ£æ,^
12.2ZA	è,,†å¼±æ€§ã♦,ã,Š(æœ€å^♦ã♦®ä¿®æ£ã♦— 12.2SXF)
12.2ZB	è,,†å¼±æ€§ãªã♦—
12.2ZC	è,,†å¼±æ€§ãªã♦—
12.2ZD	è,,†å¼±æ€§ã♦,ã,Šã€,ã♦“ã♦®ã,¢ãf‰oãf♦ã,¤ã,¶ãfªã♦®ã€Œä,®æ£æ,^
12.2ZE	è,,†å¼±æ€§ã♦,ã,Šã€,15.0Mã♦¾ã♦Ýã♦— ä¿®æ£æ,^ã♦¿12.4ãfªãfªãf¼
12.2ZF	è,,†å¼±æ€§ãªã♦—
12.2ZG	è,,†å¼±æ€§ãªã♦—
12.2ZH	è,,†å¼±æ€§ãªã♦—
12.2ZJ	è,,†å¼±æ€§ã♦,ã,Šã€,ã♦“ã♦®ã,¢ãf‰oãf♦ã,¤ã,¶ãfªã♦®ã€Œä,®æ£æ,^
12.2ZL	è,,†å¼±æ€§ãªã♦—
12.2ZP	è,,†å¼±æ€§ãªã♦—

12.2ZU	è.,†å¼±æ€§ã,ã,Š(æœ€å^♦ã♦®ä¿®æ£ã♦— 12.2SXH)
12.2ZX	è.,†å¼±æ€§ã,ã,Šã€♦æœ€å^♦ã♦®ä¿®æ£ã♦— 12.2SB
12.2ZY	è.,†å¼±æ€§ã,ã,Šã€,ã♦“ã♦®ã,çãf‰oãf♦ã,¤ã,¶ãfªã♦®ã€Œä,®æ£æ,^
12.2ZYA	è.,†å¼±æ€§ã,ã,Šã€,ã♦“ã♦®ã,çãf‰oãf♦ã,¤ã,¶ãfªã♦®ã€Œä,®æ£æ,^
Affected 12.3-Based Releases	
12.3	è.,†å¼±æ€§ã,ã,Šã€,15.0M♦¾ã♦Ýã♦—ä¿®æ£æ,^ã♦¿12.4ãfªãfªãf¼
12.3B	è.,†å¼±æ€§ã,ã,Šã€,15.0M♦¾ã♦Ýã♦—ä¿®æ£æ,^ã♦¿12.4ãfªãfªãf¼
12.3BC	è.,†å¼±æ€§ã,ã,Š(æœ€å^♦ã♦®ä¿®æ£ã♦— 12.2SCB)
12.3BW	è.,†å¼±æ€§ã,ã,Šã€,15.0M♦¾ã♦Ýã♦—ä¿®æ£æ,^ã♦¿12.4ãfªãfªãf¼
12.3EU	è.,†å¼±æ€§ã^ã♦—
12.3JA	è.,†å¼±æ€§ã^ã♦—
12.3JEA	è.,†å¼±æ€§ã^ã♦—
12.3JEB	è.,†å¼±æ€§ã^ã♦—
12.3JEC	è.,†å¼±æ€§ã^ã♦—
12.3JED	è.,†å¼±æ€§ã^ã♦—

12.3JK	12.3(2)JK3 ã♦¾ã♦Ñã♦®ãƒªãƒªãƒ¼ã,¹ã♦«ã♦¬è,,†å¼±æ€Ñã♦¬ã♦,ã,Ñã♦½æ€Ñã♦¬ã♦,ã,Ñã♦¾ã♦
12.3JL	è,,†å¼±æ€§ã♦ªã♦—
12.3JX	è,,†å¼±æ€§ã♦ªã♦—
12.3T	è,,†å¼±æ€§ã♦,ã,Ñã€,15.0Mã♦¾ã♦Ýã♦¬ä¿®æ£æ,^ã♦¿12.4ãƒªãƒªãƒ¼
12.3TPC	12.3(4)TPC11a ã♦¾ã♦Ñã♦®ãƒªãƒªãƒ¼ã,¹ã♦«ã♦¬è,,†å¼±æ€Ñã♦¬ã♦,ã,Ñã♦¾ã♦
12.3VA	è,,†å¼±æ€§ã♦ªã♦—
12.3XA	12.3(2)XA3ä»¥å‰oã♦®ãƒªãƒªãƒ¼ã,¹ã♦«ã♦¬è,,†å¼±æ€Ñã♦¬ã♦,ã,Ñã♦½æ€Ñã♦¬ã♦,ã,Ñã♦¾ã♦
12.3XB	è,,†å¼±æ€§ã♦ªã♦—
12.3XC	è,,†å¼±æ€§ã♦,ã,Ñã€,15.0Mã♦¾ã♦Ýã♦¬ä¿®æ£æ,^ã♦¿12.4ãƒªãƒªãƒ¼
12.3XD	è,,†å¼±æ€§ã♦,ã,Ñã€,15.0Mã♦¾ã♦Ýã♦¬ä¿®æ£æ,^ã♦¿12.4ãƒªãƒªãƒ¼
12.3XE	è,,†å¼±æ€§ã♦,ã,Ñã€,15.0Mã♦¾ã♦Ýã♦¬ä¿®æ£æ,^ã♦¿12.4ãƒªãƒªãƒ¼
12.3XF	è,,†å¼±æ€§ã♦,ã,Ñã€,ã♦"ã♦®ã,çãƒ‰oãƒ♦ã,¤ã,¶ãƒªã♦®ã€Œä¿®æ£æ,^ã♦¿12.4ãƒªãƒªãƒ¼
12.3XG	è,,†å¼±æ€§ã♦ªã♦—

12.3XI	12.3(7)XI11, ^, Š‰%♦ã♦®ãƒªãƒªãƒ¼, 1ã♦«ã♦—è,, †å¼±æ€§ã♦Œã♦, ^
12.3XJ	12.3(7)XJ2, ^, Š‰%♦ã♦®ãƒªãƒªãƒ¼, 1ã♦«ã♦—è,, †å¼±æ€§ã♦Œã♦, ^
12.3XK	è,, †å¼±æ€§ã♦^ã♦—
12.3XL	è,, †å¼±æ€§ã♦, ^, Š‰€, 15.0M♦¾ã♦Ýã♦—ä¿®æŒæ, ^ã♦¿12.4Tãƒªãƒªãƒ¼
12.3XQ	è,, †å¼±æ€§ã♦^ã♦—
12.3XR	è,, †å¼±æ€§ã♦, ^, Š‰€, 15.0M♦¾ã♦Ýã♦—ä¿®æŒæ, ^ã♦¿12.4ãƒªãƒªãƒ¼
12.3XS	è,, †å¼±æ€§ã♦^ã♦—
12.3XU	è,, †å¼±æ€§ã♦^ã♦—
12.3XW	è,, †å¼±æ€§ã♦, ^, Š‰€, 12.4XNã♦®ä»»æ,, ♦ã♦®ãƒªãƒªãƒ¼, 1ã♦«ç§»èŒ
12.3XX	è,, †å¼±æ€§ã♦, ^, Š‰€, 15.0M♦¾ã♦Ýã♦—ä¿®æŒæ, ^ã♦¿12.4ãƒªãƒªãƒ¼
12.3XY	è,, †å¼±æ€§ã♦^ã♦—
12.3XZ	è,, †å¼±æ€§ã♦, ^, Š‰€, 15.0M♦¾ã♦Ýã♦—ä¿®æŒæ, ^ã♦¿12.4ãƒªãƒªãƒ¼
12.3YA	è,, †å¼±æ€§ã♦^ã♦—
12.3YD	è,, †å¼±æ€§ã♦^ã♦—
12.3YF	12.3(11)YF1, ^, Š‰%♦ã♦®ãƒªãƒªãƒ¼, 1ã♦«ã♦—è,, †å¼±æ€§ã♦Œã♦, ^

12.3YG	è,,†å¼±æ€§ã,ã,Šã€,15.0Mã¾ãÿã—ä¿®æ£æ,^ãÿ12.4Tãƒäƒãƒ¹
12.3YH	è,,†å¼±æ€§ã,ã,Šã€,15.0Mã¾ãÿã—ä¿®æ£æ,^ãÿ12.4Tãƒäƒãƒ¹
12.3YI	è,,†å¼±æ€§ã,ã,Šã€,15.0Mã¾ãÿã—ä¿®æ£æ,^ãÿ12.4Tãƒäƒãƒ¹
12.3YJ	è,,†å¼±æ€§ãªã—
12.3YK	è,,†å¼±æ€§ã,ã,Šã€,15.0Mã¾ãÿã—ä¿®æ£æ,^ãÿ12.4Tãƒäƒãƒ¹
12.3YM	è,,†å¼±æ€§ãªã—
12.3YQ	è,,†å¼±æ€§ãªã—
12.3YS	è,,†å¼±æ€§ã,ã,Šã€,15.0Mã¾ãÿã—ä¿®æ£æ,^ãÿ12.4Tãƒäƒãƒ¹
12.3YT	è,,†å¼±æ€§ã,ã,Šã€,15.0Mã¾ãÿã—ä¿®æ£æ,^ãÿ12.4Tãƒäƒãƒ¹
12.3YU	è,,†å¼±æ€§ã,ã,Šã€,12.4XBã®ä»»æ,,ã®ãƒäƒãƒ¼ã,¹ã«ç§»è;Œ 12.3(14)YUä»¥å‰oã®ãƒäƒãƒ¼ã,¹ã«ã—è,,†å¼±æ€§ã—ã,ã,Šã€
12.3YX	12.3(14)YX10ã,ã,Šå‰oã®ãƒäƒãƒ¼ã,¹ã«ã—è,,†å¼±æ€§ãŒã
12.3YZ	è,,†å¼±æ€§ã,ã,Šã€,ã“ã®ã,çãƒ‰oãƒã,¤ã,¶ãƒã®ã€Œä,®æ£æ,^
12.3ZA	è,,†å¼±æ€§ã,ã,Šã€,15.0Mã¾ãÿã—ä¿®æ£æ,^ãÿ12.4Tãƒäƒãƒ¹
Affected 12.4-Based Releases	

12.4	12.4(25c)
12.4GC	è,,†å¼±æ€§ãš,ãŠã€,ã“ã®ã,çãƒ‰õãƒã,¤ã,¶ãƒªã®ã€Œä,®æƒæ,^
12.4JA	è,,†å¼±æ€§ãšªã—
12.4JDA	è,,†å¼±æ€§ãšªã—
12.4JDC	è,,†å¼±æ€§ãšªã—
12.4JDD	è,,†å¼±æ€§ãšªã—
12.4JHA	è,,†å¼±æ€§ãšªã—
12.4JK	è,,†å¼±æ€§ãšªã—
12.4JL	è,,†å¼±æ€§ãšªã—
12.4JMA	è,,†å¼±æ€§ãšªã—
12.4JMB	è,,†å¼±æ€§ãšªã—
12.4JX	è,,†å¼±æ€§ãšªã—
12.4MD	è,,†å¼±æ€§ãšªã—
12.4MDA	è,,†å¼±æ€§ãšªã—

12.4MR	12.4(20)MR2
12.4SW	è,,†å¼±æ€§ã¤ªã¤—
12.4T	12.4(15)T10ã¢12.4(20)T4ã¢12.4(22)T3ã¢12.4(24)T2
12.4XA	è,,†å¼±æ€§ã¤ªã¤,ã,Šã€,15.0Mã¤¾ã¤Ýã¤—ä¿®æ£æ,^ã¤¿12.4Tã¤ã¤ã¤
12.4XB	è,,†å¼±æ€§ã¤ªã¤—
12.4XC	è,,†å¼±æ€§ã¤ªã¤,ã,Šã€,15.0Mã¤¾ã¤Ýã¤—ä¿®æ£æ,^ã¤¿12.4Tã¤ã¤ã¤
12.4XD	è,,†å¼±æ€§ã¤ªã¤,ã,Šã€,15.0Mã¤¾ã¤Ýã¤—ä¿®æ£æ,^ã¤¿12.4Tã¤ã¤ã¤
12.4XE	è,,†å¼±æ€§ã¤ªã¤,ã,Šã€,15.0Mã¤¾ã¤Ýã¤—ä¿®æ£æ,^ã¤¿12.4Tã¤ã¤ã¤
12.4XF	è,,†å¼±æ€§ã¤ªã¤—
12.4XG	è,,†å¼±æ€§ã¤ªã¤—
12.4XJ	è,,†å¼±æ€§ã¤ªã¤,ã,Šã€,15.0Mã¤¾ã¤Ýã¤—ä¿®æ£æ,^ã¤¿12.4Tã¤ã¤ã¤
12.4XK	è,,†å¼±æ€§ã¤ªã¤,ã,Šã€,15.0Mã¤¾ã¤Ýã¤—ä¿®æ£æ,^ã¤¿12.4Tã¤ã¤ã¤
12.4XL	è,,†å¼±æ€§ã¤ªã¤—

12.4XM	è,,†å¼±æ€§ãªã—
12.4XN	è,,†å¼±æ€§ãªã—
12.4XP	è,,†å¼±æ€§ãªã—
12.4XQ	è,,†å¼±æ€§ã,ã,Šã€,15.0Mã¾ãŸã—ä¿®æ£æ,^ã¿12.4Tãƒaãƒaãƒ
12.4XR	12.4(22)XR3
12.4XT	è,,†å¼±æ€§ã,ã,Šã€,15.0Mã¾ãŸã—ä¿®æ£æ,^ã¿12.4Tãƒaãƒaãƒ
12.4XV	è,,†å¼±æ€§ã,ã,Šã€,ã“ã®ã,çãƒ‰oãƒã,¤ã,¶ãƒaã®ã€ä¿®æ£æ,^
12.4XW	è,,†å¼±æ€§ã,ã,Šã€,15.0Mã¾ãŸã—ä¿®æ£æ,^ã¿12.4Tãƒaãƒaãƒ
12.4XY	è,,†å¼±æ€§ã,ã,Šã€,15.0Mã¾ãŸã—ä¿®æ£æ,^ã¿12.4Tãƒaãƒaãƒ
12.4XZ	è,,†å¼±æ€§ã,ã,Šã€,15.0Mã¾ãŸã—ä¿®æ£æ,^ã¿12.4Tãƒaãƒaãƒ
12.4YA	è,,†å¼±æ€§ã,ã,Šã€,15.0Mã¾ãŸã—ä¿®æ£æ,^ã¿12.4Tãƒaãƒaãƒ
12.4YB	è,,†å¼±æ€§ã,ã,Šã€,ã“ã®ã,çãƒ‰oãƒã,¤ã,¶ãƒaã®ã€ä¿®æ£æ,^
12.4YD	è,,†å¼±æ€§ã,ã,Šã€,ã“ã®ã,çãƒ‰oãƒã,¤ã,¶ãƒaã®ã€ä¿®æ£æ,^
12.4YE	12.4(22)YE2

12.4YG	è,,†å½±æ€§ã•ã—
å½±éŸ¿ã,’å•—ã•’ã,< 15.0 ãƒ™ãƒ¼ã,¹ã•®ãƒããƒãƒ¼ã,¹	
å½±éŸ¿ã,’å•—ã•’ã,< 15.0 ãƒ™ãƒ¼ã,¹ã•®ãƒããƒãƒ¼ã,¹	å½±éŸ¿ã,’å•—ã•’ã,< 15.0 ãƒ™ãƒ¼ã,¹ã•®ãƒããƒãƒ¼ã,¹ã•—ã•,ã,Šã•¾ã•>ã,”ã€,
å½±éŸ¿ã,’å•—ã•’ã,< 15.1 ãƒ™ãƒ¼ã,¹ã•®ãƒããƒãƒ¼ã,¹	å½±éŸ¿ã,’å•—ã•’ã,< 15.1 ãƒ™ãƒ¼ã,¹ã•®ãƒããƒãƒ¼ã,¹ã•—ã•,ã,Šã•¾ã•>ã,”ã€,

Cisco IOS XE å½ãƒ•ãƒ^ã,|ã,§ã,¢

Cisco IOS XE å½ãƒ•ãƒ^ã, ã,§ã,¢ ãƒããƒãƒ¼ã,¹	First Fixed Releaseï½æ®æ£ã•ã,CEã•Ýæœ€å^ã•ã•®ãƒããƒãƒ¼ã,¹ï¼‰
2.1.x	è,,†å½±æ€§ã•,ã,Šã€• 2.3.2 ä»¥é™ã•ã•«æ›’æ-°
2.2.x	è,,†å½±æ€§ã•,ã,Šã€• 2.3.2 ä»¥é™ã•ã•«æ›’æ-°
2.3.x	2.3.2
2.4.x	è,,†å½±æ€§ã•ã—
2.5.x	è,,†å½±æ€§ã•ã—
2.6.x	è,,†å½±æ€§ã•ã—

Cisco IOS XR å½ãƒ•ãƒ^ã,|ã,§ã,¢

ã¢“ã¢®è,,†å¼±æ€§ã¢“ã€¢æ¬;ã¢®è;”ã¢«å¾“ã¢£ã¢|é¢©å^‡ã¢°Software

Maintenance

Upgrade(SMU)ã¢,é¢©ç“ã¢™ã¢,<ã¢“ã¢”ã¢§å“¾å‡|ã¢§ã¢?ã¢¾ã¢™ã¢€,é¢©å^‡ã¢°SMUã¢®ã¢,IOS

XRã¢,½ã¢•ã¢f^ã¢,|ã¢§ã¢,çã¢Šã¢,^ã¢³SMUã¢®è©³ç‘°ã¢«ã¢¤ã¢,,ã¢|ã¢“ã¢æ¬;ã¢®ã¢fã¢³ã¢,“ã¢«ã¢

for Cisco IOS XR

Softwareã¢“ã¢,’å¢,ç...§ã¢—ã¢|ã¢?ã¢ã¢ ã¢•ã¢,,ã¢,<http://www.cisco.com/en/US/prod/collateral/iosswrel478699.htm>

Cisco IOS	SMU ID
XRã¢,½ã¢•ã¢f^ã¢, ã¢§ã¢,çã¢Šã¢,^ã¢³	
3.2.X	è,,†å¼±æ€§ã¢,ã¢Šã¢,3.5.2ä»¥é¢™ã¢«ç§»è;Œã¢—ã¢ ã¢?
3.3.X	è,,†å¼±æ€§ã¢,ã¢Šã¢,3.5.2ä»¥é¢™ã¢«ç§»è;Œã¢—ã¢ ã¢?
3.4.0	è,,†å¼±æ€§ã¢,ã¢Šã¢,3.5.2ä»¥é¢™ã¢«ç§»è;Œã¢—ã¢ ã¢?
3.4.1	AA03710 AA03707
3.4.2	AA03711 AA03708
3.4.3	AA03712 AA03709

3.5.2	è,,†å¼±æ€§ã¤ª—
3.5.3	è,,†å¼±æ€§ã¤ª—
3.5.4	è,,†å¼±æ€§ã¤ª—
3.6.X	è,,†å¼±æ€§ã¤ª—
3.7.X	è,,†å¼±æ€§ã¤ª—
3.8.X	è,,†å¼±æ€§ã¤ª—
3.9.X	è,,†å¼±æ€§ã¤ª—

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Cisco PSIRT

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URL

<https://sec.cloudapps.cisco.com/security/center/content/CiscoSecurityAdvisory/cisco-sa-20100324-lp>

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ãf¤ãf“ã, „ãf§ãf³ 1.1	2010å¹’3æœ^26æ—¥	iACLã¤«å—¾ã¤™ã, <æ’æ–°ã¤®ä¾<ä€,
ãf¤ãf“ã, „ãf§ãf³ 1.0	2010 å¹’ 3 æœ^ 24 æ—¥	å^ã¤å›žå...¬é-<ãf¤ãf½ã, 1

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ã,'çœ♦ç•¥ã♦—ã€♦å♦~ç<-ã♦®è»çè½‰oã,,æ,,♦è „³ã, 'æ-½ã♦—ã♦Ýã 'å♦^ã€♦å½"ç¤¾ã♦Œç®jç?ã♦"ã♦®ãf‰oã, ãf¥ãf;ãf³ãf^ã♦®æf...å ±ã♦¬ã€♦ã, ·ã, ¹ã, ³è£½å"♦ã♦®ã, „ãf³ãf‰oãf'ãf½ã, ¶ã, 'å¬¾è±íã

翻訳について

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