

Cisco IOS 1/2af•af^ã, |ã, šã, çãfžãf«ãf ♦ãf—ãf-ãf^ã, ³ãf«ãf©ãf™ãf«ã, ¹ã, ¢ãffãf ♦ãf³ã, °ãf'ã, ±ãf



ã, çãf%ãf ♦ã, ¢ã, ¶ã, ¶ãfªãf¼ID : cisco-sa-20100324-ldp
ã^ ♦ã...-é-ãæ—¥ : 2010-03-24 00:00
æœ€gæ>æ-°æ—¥ : 2012-09-21 19:10
ãf ♦ãf¼ã, ãfšãf³ 1.1 : Final
CVSSã, ¹ã, ³ã, ç : 7.8
ã>žé ♦çç- : No Workarounds available
Cisco ãf ♦ã, ° ID : [CSCsz45567](#)

[CVE-2010-0576](#)

æ—¥æœ-èªžã ♦«ã, ^ã, çãf...ã ±ã ♦ã-ã€ ♦è±èªžã ♦«ã, ^ã, çãžÿæ-#ã ♦®é ♦žã...-ã¼ ♦ã
æi, èi ♦

Cisco IOS®ã, ½ãf•ãf^ã, |ã, šã, çã€ ♦Cisco IOS XEã, ½ãf•ãf^ã, |ã, šã, çã€ ♦ã¾ã ♦ÿã ♦Cisco IOS XRã, ½ãf•ãf^ã, |ã, šã, çã, 'ã®ÿè; CEã ♦—ã ♦|ã ♦,,ã, çãf#ãfã, ¢ã, ¹ã ♦ã€ ♦Multiprotocol Label Switching (MPLS)ã ♦CEè "ã®šã ♦ã, CEã€ ♦Label Distribution Protocol (LDP)ã ♦CEã, ¶ãf ♦ãf¼ãf^ã ♦ã, CEã ♦|ã ♦,,ã, çã 'ã ♦^ã€ ♦ãfãfçãf¼ãf^ã ♦®Denial of Service (DoS)çš¶æ...ã ♦«ã¾ã ♦—ã ♦|è, ¶ã¼±ã ♦šã ♦™ã€,

ã·šã!™ã ♦«ç'°ã·¥ã ♦ã, CEã ♦ÿLDP UDPãfã, ±ãffãf^ã ♦ã, ^ã, šã€ ♦Cisco IOSã, ½ãf•ãf^ã, |ã, šã, çã¾ã ♦ÿã ♦Cisco IOS XEã, ½ãf•ãf^ã, |ã, šã, çã, 'ã®ÿè; CEã ♦—ã ♦|ã ♦,,ã, çãè²ã½"ãf#ãfã, ¢ã, ¹ã ♦šãfãfãf¼ãf%ã ♦CEç™°ç"ÿã ♦IOS XRã, ½ãf•ãf^ã, |ã, šã, çã, 'ã®ÿè; CEã ♦—ã ♦|ã ♦,,ã, çãè²ã½"ãf#ãfã, ¢ã, ¹ã ♦šã¾ã ♦ã ♦ã"ã®ã, ^ã ♦ã ♦ãfã, ±ã

LDPã¾ã ♦ÿã ♦Tag Distribution Protocol (TDP)ã ♦CEè "ã®šã ♦ã, CEã ♦|ã ♦,,ã, çã, ¹ãftãfã ♦ã ♦ã-è, ¶ã¼±æ€šã ♦CEã~ãœ"ã ♦—ã¾ã ♦ã, ã, ¹ã, ³ã ♦ã ♦ã®è, ¶ã¼±æ€šã ♦ã¾ã¶|ã ♦™ã, çã, ½ãf•ãf^ã, |ã, šã, çã, çãffãf—ãf#ãf¼ãf^ã, 'ãfªãfãfã

ã"ã®è, ¶ã¼±æ€šã, è»½æ, >ã ♦™ã, çã>žé ♦çç-ã ♦CEã ♦ã, šã¾ã ♦™ã€,
ã"ã®ã, çãf%ãfã, ¢ã, ¶ã, ¶ãfªã ♦ã ♦<https://sec.cloudapps.cisco.com/security/center/content/CiscoSecurityAlerts-20100324-ldp>ã ♦šã...-é-ã ♦ã, CEã ♦|ã ♦,,ã¾ã ♦™ã€,

IOSă,½ăf•ăf^ă,|ă,šă,ćă»ă,ăf¥ăf^ăf†ă,Ēă,ćăf%ăăf♦ă,ă,ă,ăf^ăăf♦ăăf^ăăf%ăăf«ă...-é-ă♦ă«ă♦ă-ă♦ă7ă»ă»ă

Cisco IOS
ă,½ăf•ăf^ă,|ă,šă,ćă♦ă@è,,†ă¼±æ€šă♦ăĒă♦ă-ă,šă,šă♦ă'ă,%ăă,Ēă♦ă|ă♦ă,,ă♦ă¾ă♦ă™ă€,ă♦ă,,ă,ćăf%ăăf♦ă
IOSă,½ăf•ăf^ă,|ă,šă,ćă♦ă@è,,†ă¼±æ€šă,ăž♦ăæĒă♦ă—ă♦ăŸăf^ăăf^ăăf^ăă,1ă,'ć^ă♦ă—ă♦ă¾ă♦ă™ă€,

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

ă€ăă€...ă♦ă@ă...-é-ăf^ăăf^ăă,ă♦ă-ă♦ăæ-ă♦ă@ăf^ăăf^ăă,ă♦ă@ă€ĒCisco Event Response:
Semiannual Cisco IOS Software Security Advisory Bundled
Publicationă♦ă♦ă«ă♦ă,ă,šă♦ă¾ă♦ă™ă€,

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

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Cisco IOSă,½ăf•ăf^ă,|ă,šă,ćă€♦ăCisco IOS XEă,½ăf•ăf^ă,|ă,šă,ćă♦ăă♦ăšă,^ă♦ă³Cisco IOS
XRă,½ăf•ăf^ă,|ă,šă,ćăf†ăăf♦ăă,ă,1ă♦ă-ă♦ăă³ă€±ă♦ă”ă♦ăă,ă<LDP
helloăfjăăffă,»ăf^ăă,ă,'ăf^ăăf^ă,1ăf^ă♦ă™ă,ă<ă€♦ăLDP
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MPLSă,'ă,ăf♦ăăf^ăăf^ă♦ă™ă,ăCisco IOSă,½ăf•ăf^ă,|ă,šă,ćă♦ăšă,^ă♦ă³Cisco IOS
XEă,½ăf•ăf^ă,|ă,šă,ćă♦ă@ă♦ă™ă♦ă¹ă♦ă|ă♦ă@ăf♦ăăf^ăă,ăfšăăf^ă♦ăĒă½±éŸă,ă♦ă—ă♦ă'ă♦ă¾ă♦ă™ă€,Ci
IOS
XRă,½ăf•ăf^ă,|ă,šă,ćă♦ă-ă♦ă3.5.2ă,ă,šă%ă♦ăă♦ă@ăf^ăăf^ăăf^ăă,1ă♦ăšă½±éŸă,ă♦ă—ă♦ă'ă♦ă¾ă♦ă™ă€,

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Cisco IOSă,½ăf•ăf^ă,|ă,šă,ćă€♦ăCisco IOS XEă,½ăf•ăf^ă,|ă,šă,ćă♦ăă♦ăšă,^ă♦ă³Cisco IOS
XRă,½ăf•ăf^ă,|ă,šă,ćă♦ă@ă€é”ă♦ă@ă€Ÿèf^ăăšă♦ă-ă♦ăă,ăf^ăă,²ăffăăf^LDP
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helloăfjăăffă,»ăf^ăă,ă,'ăf^ăăf^ă,1ăf^ă♦ă™ă,ă,ă♦ă†ă♦ă«è”ă@šă♦ăă,Ēă♦ă|ă♦ă,,ă,ă<ă♦ă©ă♦ă†ă♦ă<ă,

- 1. MPLSè»ă€€♦ă♦ăĒăœ%ăăšă¹ă♦ă«ă♦ăăă€ă♦ă|ă♦ă,,ă,ă<ă♦ă©ă♦ă†ă♦ă<ă,'ć^ă€♦ăă—ă♦ă¾ă♦ă™ă€
MPLSăf^ă,©ăf^ăăf^ăăf^ăă,ăăf^ăă,ă♦ăĒă,,ăšă¹ă♦ă«ă♦ăăă€ă♦ă|ă♦ă,,ă,ăf†ăăf♦ăă,ă,1ă♦ă-è,,†ă¼±æ€šă♦ă

Cisco IOS Software and Cisco IOS XE Software

Cisco IOSă,½ăf•ăf^ă,|ă,šă,ćă♦ăšă,^ă♦ă³Cisco IOS
XEă,½ăf•ăf^ă,|ă,šă,ćă♦ăšă♦ă-ă♦ăCLIă,³ăfžăăf^ăăf%ompls
ipă,'ă½ăžă”ă

```
—ã |ã€ MPLSãf•ã,©ãfãf¼ãfã,£ãf³ã,°ã€ãfãf•ã,©ãf«ãf^ã Sæœ%ãŠ¹ã «ãªã€  
mpls ipã€ã€ã¾ã,ã€¾ã™ã€,Cisco  
IOSã,½ãf•ãf^ã,|ã,šã,çã€ã'ã^ã€show mpls  
interfaceã€ãŠ>ã«ã^-ã€ãfãfãfã,ã,1ã Sç,,jãŠ¹ã«ãªã€ã€ã |ã,,ã,ã<ã€ã€ã€  
IOSã,½ãf•ãf^ã,|ã,šã,çãfãfãfã,ã,1ã,çœã€—ã |ã,,ã¾ã™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,šã,çã€ã'ã^ã^-ã€show running-  
configã€ãŠ>ã,èªã€¹ã€ã,°ãfãf¼ãfãfã«ã,³ãfãf³ãf%ono  
mplsã€ãœã™ã,ã€ã"ã€ã,çç°èãã€—ã |ã€ãfãfãfã,ã,1ã€ãLDP  
helloãfjãffã,»ãf¼ã,ã,ã†|ç€tã€—ãªã,,ã€ã"ã€ã,çç°èãã€—ã¾ã™ã€,æ¬ã€ã€ã¾ã€  
IOS XEã,½ãf•ãf^ã,|ã,šã,çãfãfãfã,ã,1ã,çœã€—ã |ã,,ã¾ã™ã€,
```

<#root>

Router#

```
show running-config | include mpls
```

```
no mpls ip  
Router#
```

Cisco IOS XR ã,½ãf•ãf^ã,|ã,šã,ç

Cisco IOS

```
XRã,½ãf•ãf^ã,|ã,šã,çã€ã^-ã€MPLSãf•ã,©ãfãf¼ãfã,£ãf³ã,°ã^-ãfãfã,©ãf«ãf^ã Sç,,jãŠ¹ã  
MPLSè»çé€ã€ãœœ%ãŠ¹ã«ãªã€ã€ã€ã |ã,,ã,ãfãfãfã,ã,1ã Sã^-ã€è"ãŠã«ã,°  
ldpã€ã€ã¾ã,ã€ã |ã,,ã¾ã™ã€,æ¬ã€ã€ã¾ã€^-ã€MPLSãf•ã,©ãfãf¼ãfã,£ãf³ã  
IOS XRã,½ãf•ãf^ã,|ã,šã,çãfãfãfã,ã,1ã,çœã€—ã |ã,,ã¾ã™ã€,
```

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

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

```
RP/0/0/CPU0:Router-XR#show running-config mpls
mpls ldp
!
Cisco IOS XR Software, Copyright (C) 2005-2013 Cisco and/or its affiliates. All rights reserved. Cisco Confidential
```

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

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

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

2. Configuring LDP

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

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

Cisco IOS Software and Cisco IOS XE Software

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

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

```
RP/0/0/CPU0:Router-XR#show ip socket
```

```
RP/0/0/CPU0:Router-XR#show ip socket
646
```

```
<#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 7.6.1.1, 7.6.1.1, 7.6.1.1, 7.6.1.1

show ldp

```

hello
udp brief CLI
646
hello

```

<#root>

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

show udp brief

PCB	Recv-Q	Send-Q	Local Address	Foreign Address
0x482609e8	0	0	:::514	:::0

æ¬;ã®ä¾¼ã¬ã€Cisco

IOSã,½ãf•ãf^ã,|ã,šã,çãf^ãf^ãf¼ã,¹¹2.4(20)Tã,'ã®ÿè;Eã—ã€ã,ããf;ãf¼ã,,ããã€CEC1841-ADVENTERPRISEK9-Mã®è£½ã"ã,çã°ã—ã|ã,,ã¾¾ã™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

<output truncated>

Cisco

IOSã,½ãf•ãf^ã,|ã,šã,çãf^ãf^ãf¼ã,¹ã®ã'½ãè|ãã%ãã®è;½ãš æf...ã ±ã¬ã€<http://www.cisco.com/whitepapers/whitepaper/cisco-ios-reference-guide.html>ã®ã€White Paper: Cisco IOS Reference Guideã€ããšç°èããšãã¾¾ã™ã€,

è,,†ã¼±æ€šã,'ã«ã,"ãšã,,ãªã,,ã"ã"ã€çç°èãã•ã,CEãÿè£½ã"

- Cisco NX-OSã,½ãf•ãf^ã,|ã,šã,çã¬è©²ã½"ã—ã¾¾ã>ã,"ã€,
- Cisco IOS

XRã,½ãf•ãf^ã,|ã,šã,çãf^ãf^ãf¼ã,¹3.5.2ã»¥é™ã¬ã½±éÿã,'ã—ã'ã¾¾ã>ã,"ã€,

ã>¬ã®ã,ã,¹ã,³è£½ã"ã«ãšã,,ã|ã€ã"ã®ã,çãf%ããã,ãã,¶ããã®ã½±éÿã,'ã—ã

è©³ç°

MPLS LDPã,'ã½ç°ã™ã,ã¬ã€MPLSãfãffãf^ãf^ãf¼ã,¬ãt...ã®Peer Label Switch

Routeri¼^LSRi¼ãf'ã,çãf©ãf™ãf«ã,¹ã,ããffãfãf«ãf¼ã,çi¼%ãšã€MPLSãfãffãf^ãf^ãf¼ã,¬ãt...ã

Cisco IOSã,½ãf•ãf^ã,|ã,šã,çã€Cisco IOS XEã,½ãf•ãf^ã,|ã,šã,çã€ãšã,^ã³Cisco IOS

XRã,½ãf•ãf^ã,|ã,šã,çã«ã¬ãç°ã¹ã^¥ã«ã·šã!™ã«ç°ã·¥ã·ã,CEãÿLDPãf'ã,±ãffãf^ã,'ã†|çãhelloãf;ãffã,»ãf¼ã,ã,ã†|çãtã™ã,ã,^ãtã«è·ã®šãã,CEã|ã,,ã,ã¿...è|ã€CEã,ã,šã¾¾ã

ã·šã!™ã«ç°ã·¥ã·ã,CEãÿLDPãf'ã,±ãffãf^ã¬ã€ãf|ãfã,ãf£ã,¹ãf^ã¾¾ãÿã¬ãfžãf«ãfã,ãf£ã646ãšã—ã¿ãšãã¾¾ã™ã€,é€šéŽãf^ãf©ãf·ã,£ãffã,¬ã¬ã"ã®è,,†ã¼±æ€šã,'ã¼ã

æ³T¼šTDPã€Eè·ã®šãã,CEãÿãfãfã,ã,¹ã¬ã€ã·šã!™ã«ç°ã·¥ã·ã,CEãÿLDPãf'ã,±ãffãf

MPLS... Cisco IOS... Cisco Bug ID

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

Cisco IOS... Cisco Bug ID... Cisco IOS... Cisco IOS... CVE-2010-0576

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```
!---
!--- 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

3

UDP

(CoPP)

IOS

!---
!--- 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
```

```
CoPP
class-map match-all drop-ldp-class
match access-group 150
policy-map control-plane-policy
class drop-ldp-class
drop
control-plane
service-policy input control-plane-policy
```

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

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

CoPPæ©ÿèf½ã "ã @šã " ä½ç" " ã «ã ¢ã „ã |ã @è³ç'°ã -ã æ¬ã @ãªã³ã, -ã «ã ,
Plane Policing Implementation Best Practicesã ã Šã, ^ã ³ã ŽCisco IOS Software Releases
12.2 S - Control Plane
Policingã æ, 'ã ,ç...šã —ã |ã ã ã ã „ã, <http://www.cisco.com/web/about/security/intelligence/>

ã —ã ç;ACL(rACL)

èä Š½šã "ã @è, tã½±æšã @æ©ÿèf½ã -ã ^ã f©ãªã, 1ã ã ã½ã ^ã "ã —ã | UDPã, 'ã½ç" "ã

ã †æ•£ãžã @ã -ã f—ã f©ãªãªã ^ã f•ã, ©ã½ã ã ã «ã Šã „ã |ã -ã æ Cisco12000
ã, ãªã½ã, °(GSR) ã šã - 12.0(21)S2ã æ Cisco7500 ã, ãªã½ã, °ã šã -
12.0(24)Sã æ Cisco10720 ã, ãªã½ã, °ã šã - 12.0(31)S ã @ IOS
ã, ½ã f•ã ^ã, |ã, šã, çã «ã |ã, µã ã ã½ã ^ã •ã, Çã |ã „ã, < Receive ACL
ã, éã, æŠžè, çã "ã ã Šã ¾ã TMã æ, å —ã ç; ACL ã -ã æ ã ã½ã ^ã
ã f—ã fã, »ã fã, µã Çæœ%ã @³ã ã ã f©ã fã, £ã fã, -ã @ã½±éÿã, 'ã —ã 'ã, <ã%ã ã «ã æ ã æ
ACL

ã -ã æ ã æ ã, Çã Çè "ã @šã •ã, Çã ÿã fªã fã, ¢ã, 1ã @ã çã, 'ã ç èã TMã, <è è "ã «ã ã ã ã
12000, 7500, 10720 ã šã - éšé Žã ^ã f©ã fã, £ã fã, -ã - Receive ACL
ã «ã, ^ã, <ã½±éÿã, 'ã —ã 'ã ¾ã ã, "ã æ, ã "ã @ã ÿã, ã æ ã »ã, <ã @ ACL
ã @ã¾ã çã «ã Šã „ã |ã @ã ^ã IP ã, çã f%ã fã, 1 "any"
ã Çç "ã „ã, %ã, Çã |ã, ã èªã fã ã½ã, çã @ç%ã Çã ¢ã, ã, <ã „ã -ã »ã æ IP
ã, çã f%ã fã, 1ã @ã çã Çã æ, ç...šã •ã, Çã ¾ã TMã æ, å —ã ç; ACL
ã -ã fã ã fã ^ã fã ã½ã, -ã, »ã, ã fã fã fã, £ã @ã TMã, 1ã fã
ã f—ã f©ã, -ã fã, £ã, 1ã è fã ^ã, %ã, Çã |ã Šã, Šã æ ã "ã "ã šã @ç%ã 1ã @šã @è, tã½±æšã
ã, »ã, ã fã fã fã, £ã @ã é•æœÿçš, ã ã »ã Š æ©ÿèf½ã "ã —ã | è fæ...@ã TMã, <ã;...è | æ Ç

Receive Access Control
Listsã æ -ã æ ã fªã fã, ¢ã, 1ã ,ã @æ£ã½ã ã ã fã f©ã fã, £ã fã, -ã, ç%ã 1ã @šã —ã | è ±ã -ã

ã "ã, Çã -ã æ ç; é ¾ã šã ã, <ã fã, 1ã ^ã <ã, %ã @ã "ã @ã, çã, ¢ã f—ã @ã fã f©ã fã, £ã fã, -ã

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!---
!--- Feature: Label Distribution Protocol (LDP)
!---
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1 ä;®æ£æ,^ã;ãfãfãfãf¼ã,¹ã€ã^—ã«è`~è¼%ã•ã,æã¼ã™ã€ã€First Fixed
 Release for all Advisories in 24 March 2010 Bundle
 Publicationã€ã^—ãã€ãã“ã®Cisco
 IOSã,»ã,ãfãfãfãfã,£ã,çãf%ãfã,ã,¶ã,¶ãfãfãfãfãf%ãfã«...-é-ãšã...-é-ãã,æã|ã,,ã,ã™ã

ãfã,ãfãf¼ãfãfãf¼ã,¹	
Affected 12.0-Based Releases	
12.0	è,,†ã¼±æ€§ãã—
12.0DA	è,,†ã¼±æ€§ãã—
12.0DB	è,,†ã¼±æ€§ãã—
12.0DC	è,,†ã¼±æ€§ãã—
12.0S	12.0(32)S15i¼^2010ã¹³æœ^25æ—ã«ã...ã%ã«~èf½i¼% 12.0(33)S6
12.0SC	è,,†ã¼±æ€§ãã—
12.0SL	è,,†ã¼±æ€§ãã,š(æœ€ã^ã®ä;®æ£ã 12.0S) 12.0(14)SL1ã»ã%ãã®ãfãfãfãf¼ã,¹ã«ã~è,,†ã¼±æ€§ããã,šã
12.0SP	è,,†ã¼±æ€§ãã—
12.0ST	12.0(9)STã»ã%ãã®ãfãfãfãf¼ã,¹ã«ã~è,,†ã¼±æ€§ããã,šã
12.0SX	è,,†ã¼±æ€§ãã,š(æœ€ã^ã®ä;®æ£ã 12.0S)

12.0SY	12.0(32)SY11 12.0(32)SY9b
12.0SZ	è,,†â¼±æ€§ã,ã,Š(æœ€â^ã®ä¿®æfã ⁻ 12.0S)
12.0T	è,,†â¼±æ€§ã ^a ã—
12.0W	è,,†â¼±æ€§ã ^a ã—
12.0WC	è,,†â¼±æ€§ã ^a ã—
12.0WT	è,,†â¼±æ€§ã ^a ã—
12.0XA	è,,†â¼±æ€§ã ^a ã—
12.0XB	è,,†â¼±æ€§ã ^a ã—
12.0XC	è,,†â¼±æ€§ã ^a ã—
12.0XD	è,,†â¼±æ€§ã ^a ã—
12.0XE	è,,†â¼±æ€§ã ^a ã—
12.0XF	è,,†â¼±æ€§ã ^a ã—
12.0XG	è,,†â¼±æ€§ã ^a ã—
12.0XH	è,,†â¼±æ€§ã ^a ã—

12.0XI	è,,†â¼±æ€§ãªã—
12.0XJ	è,,†â¼±æ€§ãªã—
12.0XK	è,,†â¼±æ€§ãªã—
12.0XL	è,,†â¼±æ€§ãªã—
12.0XM	è,,†â¼±æ€§ãªã—
12.0XN	è,,†â¼±æ€§ãªã—
12.0XQ	è,,†â¼±æ€§ãªã—
12.0XR	è,,†â¼±æ€§ãªã—
12.0XS	è,,†â¼±æ€§ãªã—
12.0XT	è,,†â¼±æ€§ãªã—
12.0XV	è,,†â¼±æ€§ãªã—
Affected 12.1-Based Releases	
12.1	è,,†â¼±æ€§ãªã—
12.1AA	è,,†â¼±æ€§ãªã—
12.1AX	è,,†â¼±æ€§ãªã,Šã€æœ€â^ªã®ä¿®æfã 12.2SE

	12.1(11)AXä»¥å%ã@ãfãfãf¼ã,1ã«ã-è,,†å¼±æ€§ã-ã,ã,Šã
12.1AY	è,,†å¼±æ€§ãã—
12.1AZ	è,,†å¼±æ€§ãã—
12.1CX	è,,†å¼±æ€§ãã—
12.1DA	è,,†å¼±æ€§ãã—
12.1DB	è,,†å¼±æ€§ãã—
12.1DC	è,,†å¼±æ€§ãã—
12.1E	è,,†å¼±æ€§ã,ã,Š(æœ€åá^ã@ä¿@æfã- 12.2SXF) 12.1(8a)Eã¼ãšã@ãfãfãf¼ã,1ã«ã-è,,†å¼±æ€§ã-ã,ã,Šã
12.1EA	12.1(22)EA14i¼^2010å¹7æœ^27æ—¥ã«ã...¥æ%ãã-èf½¼%
12.1EB	è,,†å¼±æ€§ã,ã,Šã€ã,ã"ã@ã,ćãf%ãfã,ã,ã,¶ã,¶ãfãã@ã€€ä¿@æfã^
12.1EC	è,,†å¼±æ€§ã,ã,Š(æœ€åá^ã@ä¿@æfã- 12.2SCB) 12.1(7)ECä»¥å%ã@ãfãfãf¼ã,1ã«ã-è,,†å¼±æ€§ã-ã,ã,Šã
12.1EO	12.1(19)EO6ä»¥å%ã@ãfãfãf¼ã,1ã«ã-è,,†å¼±æ€§ã-ã,ã,Šã
12.1EU	è,,†å¼±æ€§ãã—
12.1EV	è,,†å¼±æ€§ãã—

12.1EW	è,,†â¼±æ€§ãªã—
12.1EX	è,,†â¼±æ€§ãªã,Šă€€,12.2ă®ă»æ,,ªã®ăªăªăªă,¹ăª«ç§»è;Œ 12.1(6)EXă»¥å%ªã®ăªăªăªă,¹ăª«ăè,,†â¼±æ€§ãªã,ă,Šă
12.1EY	12.1(7a)EY3ă»¥å%ªã®ăªăªăªă,¹ăª«ăè,,†â¼±æ€§ãªã,ă,Šă
12.1EZ	è,,†â¼±æ€§ãªã—
12.1GA	è,,†â¼±æ€§ãªã—
12.1GB	è,,†â¼±æ€§ãªã—
12.1T	è,,†â¼±æ€§ãªã—
12.1XA	è,,†â¼±æ€§ãªã—
12.1XB	è,,†â¼±æ€§ãªã—
12.1XC	è,,†â¼±æ€§ãªã—
12.1XD	è,,†â¼±æ€§ãªã—
12.1XE	è,,†â¼±æ€§ãªã—
12.1XF	è,,†â¼±æ€§ãªã—
12.1XG	è,,†â¼±æ€§ãªã—

12.1XH	è,,†â¼±æ€§ãªã—
12.1XI	è,,†â¼±æ€§ãªã—
12.1XJ	è,,†â¼±æ€§ãªã—
12.1XL	è,,†â¼±æ€§ãªã—
12.1XM	è,,†â¼±æ€§ãªã—
12.1XP	è,,†â¼±æ€§ãªã—
12.1XQ	è,,†â¼±æ€§ãªã—
12.1XR	è,,†â¼±æ€§ãªã—
12.1XS	è,,†â¼±æ€§ãªã—
12.1XT	è,,†â¼±æ€§ãªã—
12.1XU	è,,†â¼±æ€§ãªã—
12.1XV	æ³ˆ¼š12.1(5)XV1ã,^ã,Šã%ãªª®ãfªãfªãf¼ã,¹ãª«ãª—è,,†â¼±æ€§ãªã—C
12.1XW	è,,†â¼±æ€§ãªã—
12.1XX	è,,†â¼±æ€§ãªã—
12.1XY	è,,†â¼±æ€§ãªã—

12.1XZ	è,,†â¼±æ€§ãªã—
12.1YA	è,,†â¼±æ€§ãªã—
12.1YB	è,,†â¼±æ€§ãª,Šă€€,12.2ã®ă»æ,,ã®ăfăfăfăfă,1ă«çš»è;Œ
12.1YC	è,,†â¼±æ€§ãªªã—
12.1YD	è,,†â¼±æ€§ãª,Šă€€,12.2ã®ă»æ,,ã®ăfăfăfăfă,1ă«çš»è;Œ
12.1YE	12.1(5)YE1ă,^ă,Šă‰ªª®ăfăfăfăfă,1ă«ă-è,,†â¼±æ€§ăŒŒă,ă
12.1YF	è,,†â¼±æ€§ãªªã—
12.1YH	è,,†â¼±æ€§ãªªã—
12.1YI	è,,†â¼±æ€§ãªªã—
12.1YJ	è,,†â¼±æ€§ãªªã—
Affected 12.2-Based Releases	
12.2	è,,†â¼±æ€§ãªªã—
12.2B	è,,†â¼±æ€§ãª,Šă€€,15.0Mă¼ăYă-ăç@æfæ,^ăç12.4ăfăfăfăfă
12.2BC	è,,†â¼±æ€§ãª,Šă€€,15.0Mă¼ăYă-ăç@æfæ,^ăç12.4ăfăfăfăfă
12.2BW	è,,†â¼±æ€§ãª,Šă€€,15.0Mă¼ăYă-ăç@æfæ,^ăç12.4ăfăfăfăfă

12.2BX	è,,†â¼±æ€§ã,ã,Šã€,15.0Mã¼ãYã-äç@æfæ,^ãç12.4ãfãfãf¼
12.2BY	12.2(8)BYã,^ã,Šã%ã@ãfãfãf¼ã,1ã«ã-è,,†â¼±æ€§ãÇã,ã,Š
12.2BZ	è,,†â¼±æ€§ã,ã,Šã€,15.0Mã¼ãYã-äç@æfæ,^ãç12.4ãfãfãf¼
12.2CX	è,,†â¼±æ€§ã,ã,Šã€,15.0Mã¼ãYã-äç@æfæ,^ãç12.4ãfãfãf¼
12.2CY	è,,†â¼±æ€§ã,ã,Šã€,15.0Mã¼ãYã-äç@æfæ,^ãç12.4ãfãfãf¼
12.2CZ	è,,†â¼±æ€§ãã—
12.2DA	è,,†â¼±æ€§ãã—
12.2DD	è,,†â¼±æ€§ã,ã,Šã€,15.0Mã¼ãYã-äç@æfæ,^ãç12.4ãfãfãf¼
12.2DX	è,,†â¼±æ€§ã,ã,Šã€,15.0Mã¼ãYã-äç@æfæ,^ãç12.4ãfãfãf¼
12.2EW	è,,†â¼±æ€§ãã—
12.2EWA	è,,†â¼±æ€§ãã—
12.2EX	12.2(37)EXã¼ãšã@ãfãfãf¼ã,1ã«ã-è,,†â¼±æ€§ãã,ã,Šãfãfãf¼ã,12.2(44)EXä»¥é™ã«ã-è,,†â¼±æ€§ãã,ã,Šã¼ã
12.2EY	12.2(37)EYã,^ã,Šã%ã@ãfãfãf¼ã,1ã«ã-è,,†â¼±æ€§ãÇã,ã,Š
12.2EZ	è,,†â¼±æ€§ãã—

12.2FX	è,,†â¼±æ€§ãªã—
12.2FY	è,,†â¼±æ€§ãªã—
12.2FZ	è,,†â¼±æ€§ãªã—
12.2IRA	è,,†â¼±æ€§ãªã,Š(æœƒă^ªã®ä¿®æƒă— 12.2SRC
12.2IRB	è,,†â¼±æ€§ãªã,Š(æœƒă^ªã®ä¿®æƒă— 12.2SRC
12.2IRC	è,,†â¼±æ€§ãªã,Šă€„ăª“ă®ă,ćăƒ%ăăă,ăă,¶ăăă®ă€ƒă;®ăăă^
12.2IRD	è,,†â¼±æ€§ãªãš12.2(33)IREi¼^2010â¼4æœ^15æ—Ÿă«ă...Ÿæ%ăăă—èƒ½i¼
12.2IXA	è,,†â¼±æ€§ãªã,Šă€„ăª“ă®ă,ćăƒ%ăăă,ăă,¶ăăă®ă€ƒă;®ăăă^
12.2IXB	è,,†â¼±æ€§ãªã,Šă€„ăª“ă®ă,ćăƒ%ăăă,ăă,¶ăăă®ă€ƒă;®ăăă^
12.2IXC	è,,†â¼±æ€§ãªã,Šă€„ăª“ă®ă,ćăƒ%ăăă,ăă,¶ăăă®ă€ƒă;®ăăă^
12.2IXD	è,,†â¼±æ€§ãªã,Šă€„ăª“ă®ă,ćăƒ%ăăă,ăă,¶ăăă®ă€ƒă;®ăăă^
12.2IXE	è,,†â¼±æ€§ãªã,Šă€„ăª“ă®ă,ćăƒ%ăăă,ăă,¶ăăă®ă€ƒă;®ăăă^
12.2IXF	è,,†â¼±æ€§ãªã,Šă€„ăª“ă®ă,ćăƒ%ăăă,ăă,¶ăăă®ă€ƒă;®ăăă^
12.2IXG	è,,†â¼±æ€§ãªã,Šă€„ăª“ă®ă,ćăƒ%ăăă,ăă,¶ăăă®ă€ƒă;®ăăă^
12.2IXH	è,,†â¼±æ€§ãªã,Šă€„ăª“ă®ă,ćăƒ%ăăă,ăă,¶ăăă®ă€ƒă;®ăăă^

12.2SEB	è,,†â¼±æ€§ãªã—
12.2SEC	è,,†â¼±æ€§ãªã—
12.2SED	è,,†â¼±æ€§ãª,Šã€æœƒâ^ªª@äj@æfã 12.2SE
12.2SEE	è,,†â¼±æ€§ãª,Šã€æœƒâ^ªª@äj@æfã 12.2SE
12.2SEF	è,,†â¼±æ€§ãªã—
12.2SEG	12.2(25)SEG4â,^ã,Šã%ªª@ãƒªãƒªãƒ¼ã,1ãªª«ã^-è,,†â¼±æ€§ãªªæãª
12.2SG	12.2(31)SG1â»¥ã%ªª@ãƒªãƒªãƒ¼ã,1ãªª«ã^-è,,†â¼±æ€§ãªªãª,Šã,Šã ãƒªãƒªãƒ¼ã,12.2(40)SGâ»¥é™ªªªª«ã^-è,,†â¼±æ€§ãªªãª,Šã,Šãªãª
12.2SGA	è,,†â¼±æ€§ãªã—
12.2SL	è,,†â¼±æ€§ãªã—
12.2SM	è,,†â¼±æ€§ãªã—
12.2SO	è,,†â¼±æ€§ãª,Šã€ãªª«ãª@ã,ćãƒ%ãƒªªã,ªã,¶ãªãªª@ã€œæj@æfæ^
12.2SQ	è,,†â¼±æ€§ãªã—
12.2SRA	è,,†â¼±æ€§ãª,Šã€æœƒâ^ªª@äj@æfã 12.2SRD
12.2SRB	è,,†â¼±æ€§ãª,Šã€æœƒâ^ªª@äj@æfã 12.2SRD

12.2SRC	12.2(33)SRC5
12.2SRD	12.2(33)SRD3
12.2SRE	è,,†â¼±æ€§ãªã—
12.2STE	è,,†â¼±æ€§ãªã—
12.2SU	è,,†â¼±æ€§ãª,Šă€€,15.0Măª¼ăªŸăªªäç®æ£æ,^ãç12.4ăªăªăªăª
12.2SV	p>12.2(18)SV2ăªª%ªª®ăªăªăªăªăª,1ăªªªè,,†â¼±æ€§ãªªª,ăª
12.2SVA	è,,†â¼±æ€§ãª,ă,Šă€€,ăªªª®ăª,çăª%ăªăªăª,ăª,®ăªăª®ăª€Făª,®ăªæ,^
12.2SVC	è,,†â¼±æ€§ãª,ă,Šă€€,ăªªª®ăª,çăª%ăªăªăª,ăª,®ăªăª®ăª€Făª,®ăªæ,^
12.2SVD	è,,†â¼±æ€§ãª,ă,Šă€€,ăªªª®ăª,çăª%ăªăªăª,ăª,®ăªăª®ăª€Făª,®ăªæ,^
12.2SVE	è,,†â¼±æ€§ãª,ă,Šă€€,ăªªª®ăª,çăª%ăªăªăª,ăª,®ăªăª®ăª€Făª,®ăªæ,^
12.2SW	12.2(25)SW12ă,^ă,Šă%ªª®ăªăªăªăªăª,1ăªªª«ăªªè,,†â¼±æ€§ãªªª€ăª
12.2SX	è,,†â¼±æ€§ãª,ă,Š(æœ€ăª^ªª®ăªç®æ£ăªª12.2SXF)
12.2SXA	è,,†â¼±æ€§ãª,ă,Š(æœ€ăª^ªª®ăªç®æ£ăªª12.2SXF)
12.2SXB	è,,†â¼±æ€§ãª,ă,Š(æœ€ăª^ªª®ăªç®æ£ăªª12.2SXF)

12.2SXD	è,,†â¼±æ€§ã,ã,Š(æœ€â^ã@ä¿@æfã 12.2SXF)
12.2SXE	è,,†â¼±æ€§ã,ã,Š(æœ€â^ã@ä¿@æfã 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,,†â¼±æ€§ã,ã,Šã€æœ€â^ã@ä¿@æfã 12.2SB
12.2SZ	è,,†â¼±æ€§ã,ã,Šã€æœ€â^ã@ä¿@æfã 12.2SB
12.2T	è,,†â¼±æ€§ã,ã,Šã€,15.0Mã¾ãÿã-ä¿@æfæ,^ã¿12.4ãfãfãf¼
12.2TPC	12.2(8)TPC10aã»¥ã%ã@ãfãfãf¼ã,1ã«ã-è,,†â¼±æ€§ãã-ã,ã
12.2XA	è,,†â¼±æ€§ã,ã,Šã€,15.0Mã¾ãÿã-ä¿@æfæ,^ã¿12.4ãfãfãf¼ 12.2(1)XAã»¥ã%ã@ãfãfãf¼ã,1ã«ã-è,,†â¼±æ€§ãã-ã,ã,Šã
12.2XB	è,,†â¼±æ€§ã,ã,Šã€,15.0Mã¾ãÿãÿã-ä¿@æfæ,^ã¿12.4ãfãfãf¼
12.2XC	è,,†â¼±æ€§ãã-ã-
12.2XD	è,,†â¼±æ€§ãã-ã-
12.2XE	è,,†â¼±æ€§ãã-ã-

12.2XF	è,,†â¼±æ€§ã,ã,Šã€,15.0Mã¾ãÿã-äç@æfæ,^ãç12.4ãfãfãf¼
12.2XG	è,,†â¼±æ€§ã,ã,Šã€,15.0Mã¾ãÿã-äç@æfæ,^ãç12.4ãfãfãf¼
12.2XH	è,,†â¼±æ€§ãªã—
12.2XI	è,,†â¼±æ€§ãªã—
12.2XJ	è,,†â¼±æ€§ãªã—
12.2XK	è,,†â¼±æ€§ã,ã,Šã€,15.0Mã¾ãÿã-äç@æfæ,^ãç12.4ãfãfãf¼
12.2XL	è,,†â¼±æ€§ã,ã,Šã€,15.0Mã¾ãÿã-äç@æfæ,^ãç12.4ãfãfãf¼
12.2XM	è,,†â¼±æ€§ãªã—
12.2XN	12.2(33)XN1ã,^ã,Šã%ã@ãfãfãf¼ã,1ã«ã-è,,†â¼±æ€§ãçã
12.2XNA	Cisco IOS XE ã.½ãfãfã.ã.šã.çã@ã-ç" æ€§ã,ã.ç...šã—ã ã
12.2XNB	Cisco IOS XE ã.½ãfãfã.ã.šã.çã@ã-ç" æ€§ã,ã.ç...šã—ã ã
12.2XNC	Cisco IOS XE ã.½ãfãfã.ã.šã.çã@ã-ç" æ€§ã,ã.ç...šã—ã ã
12.2XND	Cisco IOS XE ã.½ãfãfã.ã.šã.çã@ã-ç" æ€§ã,ã.ç...šã—ã ã
12.2XNE	Cisco IOS XE ã.½ãfãfã.ã.šã.çã@ã-ç" æ€§ã,ã.ç...šã—ã ã
12.2XNF	Cisco IOS XE ã.½ãfãfã.ã.šã.çã@ã-ç" æ€§ã,ã.ç...šã—ã ã

12.2XO	è,,†â¼±æ€§ãªã—
12.2XQ	è,,†â¼±æ€§ãªã—
12.2XR	è,,†â¼±æ€§ãªã—
12.2XS	è,,†â¼±æ€§ãªã—
12.2XT	è,,†â¼±æ€§ãª,Šă€,,15.0Mă¼ãªªãª—äç@æfæ,^ãç12.4ăfªăfªăf¼
12.2XU	è,,†â¼±æ€§ãª,Šă€,,15.0Mă¼ãªªãªª—äç@æfæ,^ãç12.4ăfªăfªăf¼
12.2XV	è,,†â¼±æ€§ãª,Šă€,,15.0Mă¼ãªªãªª—äç@æfæ,^ãç12.4ăfªăfªăf¼
12.2XW	è,,†â¼±æ€§ãªªã—
12.2YA	è,,†â¼±æ€§ãªªã—
12.2YB	è,,†â¼±æ€§ãªªã—
12.2YC	è,,†â¼±æ€§ãªªã—
12.2YD	è,,†â¼±æ€§ãª,Šă€,,ãªª“ãª@ã,çăf%ãfã,ã,ã,¶ăfãªª@ã€CFäç@æfæ,^
12.2YE	è,,†â¼±æ€§ãªªã—
12.2YF	è,,†â¼±æ€§ãªªã—
12.2YG	è,,†â¼±æ€§ãªªã—

12.2ZU	è,,†â¼±æ€§ã,ã,Š(æœƒâ^ã®ä®æfã 12.2SXH)
12.2ZX	è,,†â¼±æ€§ã,ã,Šæœƒâ^ã®ä®æfã 12.2SB
12.2ZY	è,,†â¼±æ€§ã,ã,Šã€,"ã®ã,çãf%ãã,ã,¶ã,¶ãã®ã€€ä,®æfã,^
12.2ZYA	è,,†â¼±æ€§ã,ã,Šã€,"ã®ã,çãf%ãã,ã,¶ã,¶ãã®ã€€ä,®æfã,^
Affected 12.3-Based Releases	
12.3	è,,†â¼±æ€§ã,ã,Šã€,15.0Mã¾ãÿã®ä®æfã,^ã;12.4ãfããfããfã
12.3B	è,,†â¼±æ€§ã,ã,Šã€,15.0Mã¾ãÿã®ä®æfã,^ã;12.4ãfããfããfã
12.3BC	è,,†â¼±æ€§ã,ã,Š(æœƒâ^ã®ä®æfã 12.2SCB)
12.3BW	è,,†â¼±æ€§ã,ã,Šã€,15.0Mã¾ãÿã®ä®æfã,^ã;12.4ãfããfããfã
12.3EU	è,,†â¼±æ€§ãã—
12.3JA	è,,†â¼±æ€§ãã—
12.3JEA	è,,†â¼±æ€§ãã—
12.3JEB	è,,†â¼±æ€§ãã—
12.3JEC	è,,†â¼±æ€§ãã—
12.3JED	è,,†â¼±æ€§ãã—

12.3JK	12.3(2)JK3 ā ¼ā Šā ®āfāāfāāf¼ā, 1ā «ā è,, t¼±æ€Šā ā, Šā āfāāfāāf¼ā, 12.3(8)JK1ā»¥é™ ā «ā è,, t¼±æ€Šā ā, Šā ¼ā
12.3JL	è,, t¼±æ€Šā ā —
12.3JX	è,, t¼±æ€Šā ā —
12.3T	è,, t¼±æ€Šā ā, Šā€, 15.0Mā ¼ā Ÿā ä ç@æ£æ, ^ā ç12.4āfāāfāāf¼
12.3TPC	12.3(4)TPC11a ā ¼ā Šā ®āfāāfāāf¼ā, 1ā «ā è,, t¼±æ€Šā ā,
12.3VA	è,, t¼±æ€Šā ā —
12.3XA	12.3(2)XA3ā»¥ā% ā ®āfāāfāāf¼ā, 1ā «ā è,, t¼±æ€Šā ā, Šā āfāāfāāf¼ā, 12.3(2)XA7ā»¥é™ ā «ā è,, t¼±æ€Šā ā, Šā ¼ā
12.3XB	è,, t¼±æ€Šā ā —
12.3XC	è,, t¼±æ€Šā ā, Šā€, 15.0Mā ¼ā Ÿā ä ç@æ£æ, ^ā ç12.4āfāāfāāf¼
12.3XD	è,, t¼±æ€Šā ā, Šā€, 15.0Mā ¼ā Ÿā ä ç@æ£æ, ^ā ç12.4āfāāfāāf¼
12.3XE	è,, t¼±æ€Šā ā, Šā€, 15.0Mā ¼ā Ÿā ä ç@æ£æ, ^ā ç12.4āfāāfāāf¼
12.3XF	è,, t¼±æ€Šā ā, Šā€, ā "ā ®ā, çāf%āf ā, ¢ā, ¶ā, ¶āfā ®ā€€ä ç@æ£æ, ^
12.3XG	è,, t¼±æ€Šā ā —

12.3XI	12.3(7)XI1ã, ^ã, Šã%o ◊ã◊ @ãfããfãfãfã, 1ã◊ «ã◊ ^è,, †ã¼±æ€Šã◊ Ćã◊, ã,
12.3XJ	12.3(7)XJ2ã, ^ã, Šã%o ◊ã◊ @ãfããfãfãfã, 1ã◊ «ã◊ ^è,, †ã¼±æ€Šã◊ Ćã◊, ã,
12.3XK	è,, †ã¼±æ€Šã◊ ^ã◊ —
12.3XL	è,, †ã¼±æ€Šã◊, ã, Šã€, 15.0Mã◊ ¾ã◊ Ÿã◊ ^äç@æfæ, ^ã◊ ç12.4Tãfããfããfãfã
12.3XQ	è,, †ã¼±æ€Šã◊ ^ã◊ —
12.3XR	è,, †ã¼±æ€Šã◊, ã, Šã€, 15.0Mã◊ ¾ã◊ Ÿã◊ ^äç@æfæ, ^ã◊ ç12.4ãfããfããfãfã
12.3XS	è,, †ã¼±æ€Šã◊ ^ã◊ —
12.3XU	è,, †ã¼±æ€Šã◊ ^ã◊ —
12.3XW	è,, †ã¼±æ€Šã◊, ã, Šã€, 12.4XNã◊ @ä»»æ,, ◊ã◊ @ãfããfããfãfã, 1ã◊ «çš»èçĆ
12.3XX	è,, †ã¼±æ€Šã◊, ã, Šã€, 15.0Mã◊ ¾ã◊ Ÿã◊ ^äç@æfæ, ^ã◊ ç12.4ãfããfããfãfã
12.3XY	è,, †ã¼±æ€Šã◊ ^ã◊ —
12.3XZ	è,, †ã¼±æ€Šã◊, ã, Šã€, 15.0Mã◊ ¾ã◊ Ÿã◊ ^äç@æfæ, ^ã◊ ç12.4ãfããfããfãfã
12.3YA	è,, †ã¼±æ€Šã◊ ^ã◊ —
12.3YD	è,, †ã¼±æ€Šã◊ ^ã◊ —
12.3YF	12.3(11)YF1ã, ^ã, Šã%o ◊ã◊ @ãfããfããfãfã, 1ã◊ «ã◊ ^è,, †ã¼±æ€Šã◊ Ćã◊, ã,

12.3YG	è,,†â¼±æ€§ã,ã,Šă€,15.0Mă¼ãYă-äç@æfæ,^ãç12.4Tăfăăfăăf
12.3YH	è,,†â¼±æ€§ã,ã,Šă€,15.0Mă¼ãYă-äç@æfæ,^ãç12.4Tăfăăfăăf
12.3YI	è,,†â¼±æ€§ã,ã,Šă€,15.0Mă¼ãYă-äç@æfæ,^ãç12.4Tăfăăfăăf
12.3YJ	è,,†â¼±æ€§ãªã—
12.3YK	è,,†â¼±æ€§ã,ã,Šă€,15.0Mă¼ãYă-äç@æfæ,^ãç12.4Tăfăăfăăf
12.3YM	è,,†â¼±æ€§ãªã—
12.3YQ	è,,†â¼±æ€§ãªã—
12.3YS	è,,†â¼±æ€§ã,ã,Šă€,15.0Mă¼ãYă-äç@æfæ,^ãç12.4Tăfăăfăăf
12.3YT	è,,†â¼±æ€§ã,ã,Šă€,15.0Mă¼ãYă-äç@æfæ,^ãç12.4Tăfăăfăăf
12.3YU	è,,†â¼±æ€§ã,ã,Šă€,12.4XBă®ä»æ,,ã®ăfăăfăăf¼ă,1ă«çš»èjCE 12.3(14)YUä»¥ă%ã®ăfăăfăăf¼ă,1ă«ã-è,,†â¼±æ€§ã-ã,ã,Šă
12.3YX	12.3(14)YX10ă,^ă,Šă%ã®ăfăăfăăf¼ă,1ă«ã-è,,†â¼±æ€§ãCEă
12.3YZ	è,,†â¼±æ€§ã,ã,Šă€,ã"ã®ă,çăf%ăăfăăfăăf¼ă,1ă«ã-è,,†â¼±æ€§ãCEă
12.3ZA	è,,†â¼±æ€§ã,ã,Šă€,15.0Mă¼ãYă-äç@æfæ,^ãç12.4Tăfăăfăăf
Affected 12.4-Based Releases	

12.4	12.4(25c)
12.4GC	è,,†â¼±æ€§ã,ã,Šã€ã"ã®ã,ćãf%oãfã,ã,ã,¶ã,¶ãfã®ã€€ä,®ãfã,ã
12.4JA	è,,†â¼±æ€§ã ^a ã—
12.4JDA	è,,†â¼±æ€§ã ^a ã—
12.4JDC	è,,†â¼±æ€§ã ^a ã—
12.4JDD	è,,†â¼±æ€§ã ^a ã—
12.4JHA	è,,†â¼±æ€§ã ^a ã—
12.4JK	è,,†â¼±æ€§ã ^a ã—
12.4JL	è,,†â¼±æ€§ã ^a ã—
12.4JMA	è,,†â¼±æ€§ã ^a ã—
12.4JMB	è,,†â¼±æ€§ã ^a ã—
12.4JX	è,,†â¼±æ€§ã ^a ã—
12.4MD	è,,†â¼±æ€§ã ^a ã—
12.4MDA	è,,†â¼±æ€§ã ^a ã—

12.4YG	è,,†â¼±æ€§ãªã—
<p>â¼±éÿ;ã,'â—ã'ã,< 15.0 ãf™ãf¼ã,¹ã®ãfªãfªãf¼ã,¹</p>	
<p>â¼±éÿ;ã,'â—ã'ã,< 15.0 ãf™ãf¼ã,¹ã®ãfªãfªãf¼ã,¹ã—ã,ã,Šã¼ã>ã,"ã€,</p>	
<p>â¼±éÿ;ã,'â—ã'ã,< 15.1 ãf™ãf¼ã,¹ã®ãfªãfªãf¼ã,¹</p>	
<p>â¼±éÿ;ã,'â—ã'ã,< 15.1 ãf™ãf¼ã,¹ã®ãfªãfªãf¼ã,¹ã—ã,ã,Šã¼ã>ã,"ã€,</p>	

Cisco IOS XE â¼±ãfªãfªã,lä,šã,ç

Cisco IOS XE ã¼±ãfªãfªã,lä,šã,ç ãfªãfªãf¼ã,¹	First Fixed Release¼^ä;®æfãª•ã,œãÿæœ€ã^ã®ãfªãfªãf¼ã,¹¼%o
2.1.x	è,,†â¼±æ€§ãªã,ã,Šã€2.3.2 ä»¥é™ãª«æ'æ-°
2.2.x	è,,†â¼±æ€§ãªã,ã,Šã€2.3.2 ä»¥é™ãªª«æ'æ-°
2.3.x	2.3.2
2.4.x	è,,†â¼±æ€§ãªãª—
2.5.x	è,,†â¼±æ€§ãªãª—
2.6.x	è,,†â¼±æ€§ãªãª—

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Maintenance

Upgrade(SMU) for Cisco IOS XR

for Cisco IOS XR

Software for Cisco IOS XR
<http://www.cisco.com/en/US/prod/collateral/iosswrel/478699.htm>

Cisco IOS XR 3.5.2	SMU ID
3.2.X	3.5.2
3.3.X	3.5.2
3.4.0	3.5.2
3.4.1	AA03710 AA03707
3.4.2	AA03711 AA03708
3.4.3	AA03712 AA03709

翻訳について

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