

Cisco IOS, ¹/₂ af·af^ã, |ã, §ã, ç IPS

ã Šã, ^ã ^3ã, ¾ãf¹¼ãf³ã ^ãf·ã, ¡ã, ¢ã, |ã, ©ãf¹¼



ã, çãf%ãfã, ¢ã, ¶ã, ¶ãf³ãf¹¼ID : cisco-sa-20110928-zbfbw

[CVE-2011-3281](#)

ã^ã...-é-ã—¥ : 2011-09-28 16:00

[CVE-2011-](#)

æœ€gæ>´æ-°æ—¥ : 2012-09-21 19:24

[3273](#)

ãfãf¹¼ã, ãfšãf³ 1.2 : Final

CVSSã, ¹ã, ³ã, ç : [7.8](#)

ã>žéçç- : No Workarounds available

Cisco ãfã, ° ID : [CSCto68554](#) [CSCti79848](#)

æ—¥æœ-èªžã «ã, ^ã, <æf...ã ±ã ^ã€è<±èªžã «ã, ^ã, <ãŽŸæ-#ã ®éžã...-ã¹¼ã

æ!, è!?

Cisco IOSã, ½ãf·af^ã, |ã, §ã, çã ^ Cisco IOS ã¾ãµã...¥é²ã¾ã, ·ã, ¹ãftãf ï¹¼IPSï¹¼%ãŠã, ^ã³ Cisco IOS ã, ¾ãf¹¼ãf³ ãf™ãf¹¼ã, ¹ã®ãf·ã, ¡ã, ¢ã, |ã, ©ãf¹¼ãfç%ã¹æ€šã «é-çã™ã, < 2 è,, tã¹¼±æ€šã ÇEã «ã¾ã, ÇEã |ã, ã¾ã™ã€, ã"ã, ÇEã, %ã®è,, tã¹¼±æ€šã æ-¡ã®ã ãŠã, Šãšã™:

- Cisco IOSã, ½ãf·af^ã, |ã, §ã, çã ®ãfãfçãfªãfªãf¹¼ã,
- ç%ã¹ã^Ÿã «ã·šã |™ã «ç°ã·Ÿã·ã, ÇEãŸ HTTP ãfã, ±ãffãf^ã, 'ã‡|çã—ãŸã 'ã^ Cisco IOSã, ½ãf·af^ã, |ã, §ã, ç Denial of Serviceï¹¼DoS/DDoSï¹¼%ã

ã, ·ã, ¹ã, ³ã ^ã "ã, ÇEã, %ã®è,, tã¹¼±æ€šã «ã³ã‡|ã™ã, <ã, ½ãf·af^ã, |ã, §ã, ç ã, çãffãf—ãf‡ãf¹¼ãf^ã, 'æã¾ã—ã |ã, ã¾ã™ã€,

ã"ã, ÇEã, %ã®è,, tã¹¼±æ€šã, è»½æ, >ã™ã, <ã>žéçç-ã ^ã, ã, Šã¾ã>ã, "ã€,

ã"ã®ã, çãf%ãfã, ¢ã, ¶ã, ¶ãf³ã

<http://tools.cisco.com/security/center/content/CiscoSecurityAdvisory/cisco-sa-20110928-zbfbw>

ãšæž²çªã·ã, ÇEã¾ã™ã€,

æ³: 2011 ã¹' 9æœ^ 28 æ—¥ã€ Cisco IOSã, ½ãf·af^ã, |ã, §ã, ç Security Advisory ã «ã, ^ã£ã |çµ,, ãçè¾¼ã¾ã, ÇEã, <æ>ã ^ 10 Cisco Security Advisory ãÇEã «ã¾ã, ÇEã |ã, ã¾ã™ã€, ã, çãf%ããfã, ¢ã, ¶ã, ¶ãf³ã® 9 ãª^ Cisco IOSã, ½ãf·af^ã, |ã, §ã, çã®è,, tã¹¼±æ€šã «ã³ã‡|ã—ã€ 1 ãªã®ã, çãf%ããfã, ¢ã, ¶ã, ¶ãf³ã ^ Cisco Unified Communications Manager

ã@è,,tã±æ€šã«ã¼ã|ã—ã¾ã™ã€,ã,,ã,çãf%ãfã,ã,ã,ãfãæfã—ã,,
2011 å' 9

æce^ã@ã™ãã|ã@è,,tã±æ€šã—ãfãf-ãfã,±ãf¼ã,ãfšãfã,'çµ,,ã:è¾¼ã,"ãã"ãã,ç
Cisco IOSã,½ãfãfã,|ã,šã,çãfãfãf¼ã,1ãšè³è:ã°ã,ã,ã,ã,çãfãfãfã,èšfæ±°ã™ã,
Cisco IOSã,½ãfãfã,|ã,šã,çãfãfãf¼ã,1ã,ãfã,1ãfã—ã¾ã™ã€,

"Cisco Event Response: Cisco IOSãšã,ã³ IOSã,½ãfãfã,|ã,šã,çã@ã,»ã,ãfãfãfãfã,£
ã,çãf%ãfã,ã,ã,ãfã

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http://www.cisco.com/web/about/security/intelligence/Cisco_ERP_sep11.html

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Cisco IOSã,½ãfãfã,ã,šã,ã@è,,tã±æ€šããfãf¼ã,ãfšãfã,ã@ÿè;ã™ã,ç Cisco
IOSãfãfãfã,ã,1ã Cisco IOS IPSãšã,ã³ Cisco IOSã,¾ãf¼ãf³
ãf™ãf¼ã,1ã@ãfã,ã,ã,çã,|ã,ããf¼ãf«ã® 2
è,,tã±æ€šããã,ã,ã½±éÿã,ã—ã'ã¾ã™ã€, 2
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ã½±éÿã,ã—ã'ãÿã,³ãfãfã,£ã,ãfãfãfãfã,ãfšãfã,'çç°èãã™ã,è©³ç°ãã,èããã«æ

- Cisco IOSã,½ãfãfã,ã,šã,ã@ãfãfãfãfãfãfã,™
Cisco IOS IPSã Cisco IOSã,¾ãf¼ãf³
ãf™ãf¼ã,1ã@ãfã,ã,ã,çã,|ã,ããf¼ãf«èã@šãã,ã,ã,ãfãfãfã,ã,1ã,èéš
ãfãfãfã,ã,1ã Cisco IOS IPS
ãšèã@šãã,ã,ã,ãÿãããããçç°èãã™ã,ããÿã,ãã«ããfãfãfã,ã,1ããã
ã—ã€ãç° IP IPSã,ããfã,çãf¼ãfã,šã,ã,¹ CLI
ã,³ãfžãfãfã,ç™è;ã—ã|ã,ããã,,ã€,ããšããçç°ãããã¾ãÿã
ç™ãããæ-¹ã'ã,»ãfãfãfã IPS
ãfãf¼ãf«ããããã,ã,çç°ã—ãÿã,,ã®ãšãã'ããããfãfãfã,ã,1ãã,è,tã
ããã¾ããã—ããæ-¹ã'ãšããã,ããfã,çãf¼ãfã,šã,ã,¹ 0/0ã® IPS
ãfãf¼ãf«ã,»ãfãfãfããfãfãfã,ã,1ã,ã,ã,ãfãfãfã
ã,ããf¼ã,ãfãfãfãi¼ã802.3zi¼%ãç°ã—ãÿã,,ã®ãšãã™:

```
Router#show ip ips interfaces
Interface Configuration
Interface GigabitEthernet0/0
  Inbound IPS rule is example_ips_rule
  Outgoing IPS rule is not set
Router#
```

Cisco IOS IPS `show zone self`
Description: System defined zone

```
Router#show ip ips interfaces
```

```
Router#
```

```
show zone self
```

Description: System defined zone

```
show zone self
```

Description: System defined zone

```
show zone self
```

Description: System defined zone

```
show zone self
```

Description: System defined zone

```
Router#show zone security
```

```
zone self
```

```
Description: System defined zone
```

```
zone inside
```

```
Description: *** Inside Network ***
```

```
Member Interfaces:
```

```
GigabitEthernet0/0
```

```
zone outside
```

```
Description: *** Outside Network ***
```

```
Member Interfaces:
```

```
GigabitEthernet0/1
```

```
Router#
```

```
show zone self
```

```
Description: System defined zone
```

```
show zone self
```

```
Description: System defined zone
```

```
show zone self
```

```
Description: System defined zone
```

- HTTP af-ã, pãf7 ã, çãf—ãfã, ±ãf¼ã, ·ãf§ãf³
ã,³ãf³ãf^ãfãf¼ãf«ã Šã,^ã³ã, pãf³ã,¹ãfšã,¬ã,·ãfšãf³ã Šã,^ã³ Cisco IOS IPS
ã æœ%ãŠ¹ã «ã ãã,Šã¼ã™ã€,
-ä,€è:á¼•æ° regexãf'ãf©ãfjãf¼ã,çã® HTTP
ã,³ãf³ãf^ãfãf¼ãf«ã Šã,^ã³ã, pãf³ã,¹ãfšã,¬ã,·ãfšãf³ã HTTP
ã,¬ãf©ã,¹ãfžãfãf—ã ®ã¼•æ° regexãf'ãf©ãfjãf¼ã,çã,è|æ±,ã—ã¼ã™ã€,
ã"ã®è"ãŠã Cisco IOS IPSãæœ%ãŠ¹ã«
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ãfãfã, pã,¹ãè,,tä¼±ãš
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ã"ã®è,,tä¼±æ€šã«ã,^ã,ç,°ãã,æšæ^ãŠã,^ã³ã½±éÿã®è|ç,,ãã,è~ã

ãfãfã, pã,¹ã®è"ãŠ	ã½±éÿã,ã,ã—ã'ãÿããã½±éÿ
æœ%ãŠ¹ã «ã ãã, Cisco IOSãã' IPS	Not affected
æœ%ãŠ¹ã «ã ãã, Cisco IOS IPSã® HTTP ãf-ã, pãf7 ã,¹ãfãf¼ãf^ãfãf« ç,¹æœ	Not affected
ç,,jãŠ¹ã «ã ãã, Cisco IOS IPSã® HTTPãf-ã, pãf7 ã,¹ãfãf¼ãf^ãfãf« ç,¹æœ	Not affected
æœ%ãŠ¹ã «ã ãã, Cisco IOS IPSã® HTTP ãf-ã, pãf7 ã, çãf—ãfã, ±ãf¼ã, ·ãfšãf³ ã,³ãf³ãf^ãfãf¼ãf«ã Šã,^ã³ã, pãf³ã,¹ãfšã,¬ã,·ãfšãf³	ã½±éÿãã,ãš
ä,€è:á¼•æ° regexãf'ãf©ãfjãf¼ã,çã® HTTP ãf-ã, pãf7 ã, çãf—ãfã, ±ãf¼ã, ·ãfšãf³ ã,³ãf³ãf^ãfãf¼ãf«ã Šã,^ã³ã, pãf³ã,¹ãfšã,¬ã,·ãfšãf³ã€, æœ%ãŠ¹ã «ã ãã, Cisco IOS IPS ã®æœ%ãç,,jã «ãããã,ãã,%ããšã€,	ã½±éÿãã,ãš
ä,€è:á¼•æ° regexãf'ãf©ãfjãf¼ã,çã®ããã,, HTTP ãf-ã, pãf7 ã, çãf—ãfã, ±ãf¼ã, ·ãfšãf³ ã,³ãf³ãf^ãfãf¼ãf«ã Šã,^ã³ã, pãf³ã,¹ãfšã,¬ã,·ãfšãf³ã€, æœ%ãŠ¹ã «ã ãã, Cisco IOS IPS ã®æœ%ãç,,jã «ãããã,ãã,%ããšã€,	Not affected

æ¬ã®ã¼ã HTTPãf-ã, pãf7 ã, çãf—ãfã, ±ãf¼ã, ·ãfšãf³

ã,³ãf³ãf^ãfãf¼ãf«ã Sã Šã,^ã³ã,ªãf³ã,¹ãfšã,¯ã,ãfšãf³è¨ã@šã•ã,Œã,ã½±éÿ;ã,ã—ã'ã
ããã,ããfããfãã,ªã,¹ãŠã,^ã³ Cisco IOS IPS çªã—ãÿã,,ã®ãšã™:

<#root>

```
!  
ip ips name myips  
!  
ip ips signature-category  
  category all  
  retired true  
  category ios_ips basic  
  retired false  
!  
!  
class-map type inspect match-any layer4-classmap  
  match protocol http  
!  
class-map type inspect http match-any layer7-classmap  
  match request arg length gt 15  
!  
!  
policy-map type inspect http layer7-policymap  
  class type inspect http layer7-classmap  
  reset  
  log  
policy-map type inspect layer4-policymap  
  class type inspect layer4-classmap  
  inspect  
  
  service-policy http layer7-policymap  
  
class class-default  
  drop  
!  
zone security inside  
  description ** Inside Network **  
zone security outside  
  description ** Outside Network **  
zone-pair security in2out source inside destination outside  
  description ** Zone Pair - inside to outside **  
  service-policy type inspect layer4-policymap  
!  
!  
interface GigabitEthernet0/0  
  ip address 192.168.0.6 255.255.255.0  
  
  ip ips myips in  
  
  zone-member security inside  
!  
interface GigabitEthernet0/1  
  ip address 192.168.1.1 255.255.255.0  
  zone-member security outside  
!
```

æ¬ã®ã¼ã¯ HTTP ã,ãfãã,¹ãfžãffãf—ã®ã,€è‡`èæ±,ã¼•æ° regex

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<#root>

```
!  
parameter-map type regex example  
  pattern [^\x00-\x80]  
!  
class-map type inspect match-any layer4-classmap  
  match protocol http  
!  
class-map type inspect http match-any layer7-classmap  
  
  match request arg regex example  
  
!  
!  
policy-map type inspect http layer7-policymap  
  class type inspect http layer7-classmap  
  reset  
  log  
policy-map type inspect layer4-policymap  
  class type inspect layer4-classmap  
  inspect  
  
  service-policy http layer7-policymap  
  
class class-default  
  drop  
!  
zone security inside  
  description ** Inside Network **  
zone security outside  
  description ** Outside Network **  
zone-pair security in2out source inside destination outside  
  description ** Zone Pair - inside to outside **  
  service-policy type inspect layer4-policymap  
!  
interface GigabitEthernet0/0  
  ip address 192.168.0.6 255.255.255.0  
  zone-member security inside  
!  
interface GigabitEthernet0/1  
  ip address 192.168.1.1 255.255.255.0  
  zone-member security outside  
!
```

```
~# show version  
Cisco IOS Software, C3750E Software (C3750E-K9S), Version 15.2(2)M, Release  
"Internet Operating System Software" (Cisco IOS Software)  
Cisco IOS
```


- Cisco IOS Firewall `show processes memory`
- Cisco IOS XR `show processes memory`
- Cisco IOS XE `show processes memory`
- Cisco IPS `show processes memory`
- Cisco Catalyst 6500 `show processes memory`

`show processes memory`

show processes memory

Cisco IOS Firewall `show processes memory`

Cisco IOS XR `show processes memory`

Cisco IOS XE `show processes memory`

Cisco IPS `show processes memory`

Cisco Catalyst 6500 `show processes memory`

`show processes memory`

Cisco IOS IPS

`show processes memory`

Cisco IOS `show processes memory`

`show processes memory`

show processes memory

`show processes memory`

`show processes memory`

`show processes memory`

show processes memory

`show processes memory`

`show processes memory`

`show processes memory`

Router#show processes memory sorted
Processor Pool Total: 930768768 Used: 90497932 Free: 840270836
I/O Pool Total: 12582912 Used: 6138704 Free: 6444208

PID	TTY	Allocated	Freed	Holding	Getbufs	Retbufs	Process
1	0	130499156	72333476	58304964	0	0	Chunk Manager

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ãf™ãf¼ã,¹ã®ãfãfªã,ãf¼ãfª,ã,ã,çã,|ã,©ãf¼ãf«ã,µãf¼ãf"ã,¹æ'ã|
ã:è-ã,é€©ç"ã™ã,ãã"ã"ã- Ciscoãfã,° ID [CSCtq28732](#)
i¼^ç™»éÇ²ãf¼ãf¼ã,¶ã®ãã;¼%ã«ã,^ã,ãf¼ãfçãfªãfªãf¼ã,ãã<ã,%ãã:è-ã—ã¾ã>ã,"ã€,

ã"ã®è,,tä¼±æ€š Ciscoãfã,° ID [CSCti79848](#) i¼^
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ID CVE-2011-3273ã-ã%0²ã,šã½"ã|ã,%ãã,Çã¾ã—ããŸã€,

ç%0¹ãŸã«ã·šã|™ã«ç'ã·Ÿãã,ÇãŸ HTTPãfã,±ãfãf^ã,'ã‡|ç†ã—ããŸã'ã^
Cisco IOSã,½ãfãf^ã,|ã,šã,ç Denial of Service¼^DoS/DDoS¼%0

ã½±éŸ;ã,'ã—ãã'ãŸã,³ãfªãfªã,£ã,®ãfŸãf-ãf¼ã,ãfšãfªã®ãf†ãfã,ã,¹ãç%0¹ãŸã«
ã·šã|™ã«ç'ã·Ÿãã,ÇãŸ HTTP
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ã,³ãfžãfªãf%ã«é-çã™ã,è©³ç'ã«ããã,,ã|ã-æ-ãã®ãfªãfªã,ãš Cisco
IOSè"ã®šã®ãŸçžã,³ãfžãfªãf%ããf-ãfª,ãf-ãfªã,¹ã,'ã,ç...šã—ãã|ã,ããã,,:
http://www.cisco.com/en/US/docs/ios/fundamentals/command/reference/cf_r1.html#wp1079401

ã"ã®è,,tä¼±æ€šã- Ciscoãfã,° ID [CSCto68554](#) i¼^
ç™»éÇ²ãf¼ãf¼ã,¶ã®ãã;¼%ãšæ-†æ,ãÇ-ãã,Çãã|ã,,ã¾ãã™ã€ã CVE ID CVE-
2011-3281ã,'ã%0²ã,šã½"ã|ã,%ãã,Çã¾ã—ããŸã€,

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ã"ã,Çã,%ãã®è,,tä¼±æ€šã,'è»½æ,ãã™ã,ã>žéç-ã-ã-ã,ã,šã¾ã>ã,"ã€,

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12.1E	è,,†â¼±æ€§ãªã—
Affected 12.2-Based Releases	ãª“ãª®ã,çãf%ããfã,ã,¶ã,¶ãfªãª®æœ€ã^ãª®ä¿æ£ãfªãfªf
12.2	è,,†â¼±æ€§ãªã—
12.2B	è,,†â¼±æ€§ãªã—
12.2BC	è,,†â¼±æ€§ãªã—
12.2BW	è,,†â¼±æ€§ãªã—
12.2BX	è,,†â¼±æ€§ãªã—
12.2BY	è,,†â¼±æ€§ãªã—
12.2BZ	è,,†â¼±æ€§ãªã—
12.2CX	è,,†â¼±æ€§ãªã—
12.2CY	è,,†â¼±æ€§ãªã—
12.2CZ	è,,†â¼±æ€§ãªã—
12.2DA	è,,†â¼±æ€§ãªã—
12.2DD	è,,†â¼±æ€§ãªã—
12.2DX	è,,†â¼±æ€§ãªã—

12.2EU	è,,†â¼±æ€§ãªã—
12.2EW	è,,†â¼±æ€§ãªã—
12.2EWA	è,,†â¼±æ€§ãªã—
12.2EX	è,,†â¼±æ€§ãªã—
12.2EY	è,,†â¼±æ€§ãªã—
12.2EZ	è,,†â¼±æ€§ãªã—
12.2FX	è,,†â¼±æ€§ãªã—
12.2FY	è,,†â¼±æ€§ãªã—
12.2FZ	è,,†â¼±æ€§ãªã—
12.2IRA	è,,†â¼±æ€§ãªã—
12.2IRB	è,,†â¼±æ€§ãªã—
12.2IRC	è,,†â¼±æ€§ãªã—
12.2IRD	è,,†â¼±æ€§ãªã—

12.2IRE	è,,†â¼±æ€§ãªã—
12.2IRF	è,,†â¼±æ€§ãªã—
12.2IRG	è,,†â¼±æ€§ãªã—
12.2IXA	è,,†â¼±æ€§ãªã—
12.2IXB	è,,†â¼±æ€§ãªã—
12.2IXC	è,,†â¼±æ€§ãªã—
12.2IXD	è,,†â¼±æ€§ãªã—
12.2IXE	è,,†â¼±æ€§ãªã—
12.2IXF	è,,†â¼±æ€§ãªã—
12.2IXG	è,,†â¼±æ€§ãªã—

12.2IXH	è,,†â¼±æ€§ãªã—
12.2JA	è,,†â¼±æ€§ãªã—
12.2JK	è,,†â¼±æ€§ãªã—
12.2MB	è,,†â¼±æ€§ãªã—
12.2MC	è,,†â¼±æ€§ãªã—
12.2MRA	è,,†â¼±æ€§ãªã—
12.2MRB	è,,†â¼±æ€§ãªã—
12.2S	è,,†â¼±æ€§ãªã—
12.2SB	è,,†â¼±æ€§ãªã—
12.2SBC	è,,†â¼±æ€§ãªã—
12.2SCA	è,,†â¼±æ€§ãªã—

12.2SCB	è,,†â¼±æ€§ãªãª—
12.2SCC	è,,†â¼±æ€§ãªãª—
12.2SCD	è,,†â¼±æ€§ãªãª—
12.2SCE	è,,†â¼±æ€§ãªãª—
12.2SCF	è,,†â¼±æ€§ãªãª—
12.2SE	è,,†â¼±æ€§ãªãª—
12.2SEA	è,,†â¼±æ€§ãªãª—
12.2SEB	è,,†â¼±æ€§ãªãª—
12.2SEC	è,,†â¼±æ€§ãªãª—
12.2SED	è,,†â¼±æ€§ãªãª—
12.2SEE	è,,†â¼±æ€§ãªãª—
12.2SEF	è,,†â¼±æ€§ãªãª—
12.2SEG	è,,†â¼±æ€§ãªãª—

12.2SG	è,,†â¼±æ€§ãªãª—
12.2SGA	è,,†â¼±æ€§ãªãª—
12.2SL	è,,†â¼±æ€§ãªãª—
12.2SM	è,,†â¼±æ€§ãªãª—
12.2SO	è,,†â¼±æ€§ãªãª—
12.2SQ	è,,†â¼±æ€§ãªãª—
12.2SRA	è,,†â¼±æ€§ãªãª—
12.2SRB	è,,†â¼±æ€§ãªãª—
12.2SRC	è,,†â¼±æ€§ãªãª—
12.2SRD	è,,†â¼±æ€§ãªãª—
12.2SRE	è,,†â¼±æ€§ãªãª—
12.2STE	è,,†â¼±æ€§ãªãª—
12.2SU	è,,†â¼±æ€§ãªãª—

12.2SV	è,,†â¼±æ€§ãªãª—
12.2SVA	è,,†â¼±æ€§ãªãª—
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12.2SVD	è,,†â¼±æ€§ãªãª—
12.2SVE	è,,†â¼±æ€§ãªãª—
12.2SW	è,,†â¼±æ€§ãªãª—
12.2SX	è,,†â¼±æ€§ãªãª—
12.2SXA	è,,†â¼±æ€§ãªãª—
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12.2SXJ	è,,†â¼±æ€§ãªã—
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12.2XL	è,,†â¼±æ€§ãªãª—
12.2XM	è,,†â¼±æ€§ãªãª—
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12.2XNB	Cisco IOS XE 3.12af-af~ã.lã.šã.c 3.12.1 ç"™ æ€§ãª,ãª,ç...šãª—ãª ä,ãª•ãª
12.2XNC	Cisco IOS XE 3.12af-af~ã.lã.šã.c 3.12.1 ç"™ æ€§ãª,ãª,ç...šãª—ãª ä,ãª•ãª
12.2XND	Cisco IOS XE 3.12af-af~ã.lã.šã.c 3.12.1 ç"™ æ€§ãª,ãª,ç...šãª—ãª ä,ãª•ãª
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12.2XT	è,,†â¼±æ€§ãªã—
12.2XU	è,,†â¼±æ€§ãªã—
12.2XV	è,,†â¼±æ€§ãªã—
12.2XW	è,,†â¼±æ€§ãªã—
12.2YA	è,,†â¼±æ€§ãªã—
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12.2YR	è,,†â¼±æ€§ãªãª—

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12.2YW	è,,†â¼±æ€§ãªãª—
12.2YX	è,,†â¼±æ€§ãªãª—
12.2YY	è,,†â¼±æ€§ãªãª—
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	<p>ã® 15.1(1)T4;Available</p> <p>15.1(2)T4</p> <p>15.1(3)T2</p>
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翻訳について

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