

SSL **af'ã,±ãffãf^å†!ç** **tä,ã** «ã Šã'ã, < **Cisco IOS** **ã** **®** è **æ±æ°ã** **®** è,, **tå¼±æ€š**



ã,çãf%ãfã,ã,ã,ãfãf^å†!ç ID : cisco-sa-20070522-SSL

[CVE-2007-2813](#)

ã^ã...-é-çæ—¥ : 2007-05-22 13:00

ãfãf^å†!ç,ãfšãf³ 1.4 : Final

CVSSã,¹ã,³ã,ç : [3.3](#)

ã>žéç- : No Workarounds available

Cisco **ãfã,° ID** : [CSCsb12598](#) [CSCsb40304](#)
[CSCsd92405](#)

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Cisco IOS **ãfãf^å†!çã,ã,¹ã** -ã€ã,æ£å½çå¼ã **®** Secure Sockets

Layeri¼^SSLi¼%ãfã,±ãffãf^å†!ç **tã** **TMã**,ã **ã**,ãfãfã,ãfãfã **TMã**,ã **è** f½æ€šã **CEã**,ã,Šã **SSL**

ãf—ãfãf^å†!çã,³ãf«ã°æã,ã «ã,æ£å½çå¼ã **®**ãfã,±ãffãf^å†!ç,é€ã çã **TMã**,ã ç...è |ã **CEã**,ã,Šã

ã "ã,CEã,%ãã **®**è,,**tå¼±æ€šã** **CEç¹ã**,Šèç"ã —æ,ªç"ã •ã,CEã,ã "ã€æCEç||šçš,,ã^a

Denial-of-Servicei¼^DoS;

ã,µãf¼ãf"ã,¹æ'ã |i¼%ã **CEçTMç"ÿã** **TMã**,ã **è** f½æ€šã **CEã**,ã,Šã **¾ã** **TMã**ã,ã **ÿã**ã —ã€

Cisco IOS **ã** «è²å½"ã **TMã**,çè,,**tå¼±æ€šã** -æ-ãã **®**ã,,ã **®**ã **šã** **TMã**€,

- ClientHelloãf;ãffã,»ãf¼ã,ã **®**ã†!ç **t**(Cisco Bug ID [CSCsb12598](#)(çTM»€CE?ãfãf¼ã,¶ã°,ç"")ã «è""è¼%ø)
- ChangeCipherSpecãf;ãffã,»ãf¼ã,ã **®**ã†!ç **t**(Cisco Bug ID [CSCsb40304](#)(çTM»€CE?ãfãf¼ã,¶ã°,ç"")ã «è""è¼%ø)
- Processing Finishedãf;ãffã,»ãf¼ã,(Cisco Bug ID [CSCsd92405](#)(çTM»€CE?ãfãf¼ã,¶ã°,ç"")ã «è""è¼%ø)

Cisco

ã **šã** -ã€è²å½"ã **TMã**,ã **šã** **®** çæš~ç"ã «ã€ãã "ã,CEã,%ãã **®**è,,**tå¼±æ€šã** «ã¾ã çã **TMã**

ã "ã **®**ã,çãf%ãfã,ã,ã,ãfãf^å†!ç -ã€ <https://sec.cloudapps.cisco.com/security/center/content/CiscoSecurityA sa-20070522-SSL> **ã** **šã**...-é-çæ±æ°ã,ã,CEã |ã,ã¾ã **TMã**€,

IOS

sa-20070522-crypto

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ã“ã,CEã,%ã«è,†á½±æ€§ã-ã€Cisco IOS
ã,½ãfãf^ã,|ã,šã,çã«CEç¼ãfãã-ã|ã,,ã|ã€SSL
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Cisco è£½ãfãf^ã,ã,¹ã«è©²á½”ã-ã³ãã™ã€Cisco IOS
ã«ã,çãf-ãfã,±ãf¼ã,ãfšãf³ã±ãf-ãfãf^ã,³ãf«ã«ãtã|ã€SSL
ã,ã½ççç”ã™ã,ã,ã«ã-ã-ã«ãŠã,šãšã™ã€

- Hyper Text Transfer Protocol over SSLi¼^HTTPSi¼%ã€ã“ã,CEã-ã€SSL
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- SSL ã,ãfãf¼ãf^ã»ã Cisco Network Securityi¼^CNSi¼%ã,,ãf¼ã,ã,šãf³ãf^
- HTTPS èãè¼ãf-ãfã,ã,ã«ãfã,ã,ã,çã,|ã,©ãf¼ãf«ã,ãfãf¼ãf^
- Cisco IOS ã,ãfã,ãf³ãf^ãf-ã,¹SSL VPNi¼^WebVPNi¼%ã,ãfãf¼ãf^

ã,»ã,ãfãfãf^ã,£ã@ÿè£...ã«æš-ã•ãCE-ã,ã½ççç”ã-ã|ã,,ã|ã,,SSL
ã,ã½ççç”ã-ã|ã,,ãªã,,ã«ã«ã»-ã«ãf-ãfãf^ã,³ãf«ã-ã«ãã”ã,CEã,%ã«è,†á½±æ€
ã” Secure Shelli¼^SSH; ã,»ã,ãfã,çã,ã,šãf«i¼%ã-è©²á½”ã-ã³ãã”ã,ã€

Cisco IOS

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version ã,³ãfžãf³ãf%ã,ç™ºè;CEã-ã|ã,ã,¹ãftãf
ãfãfšãf¼ã,è;çºã-ã³ãã™ã€Cisco IOS ã,½ãfãf^ã,|ã,šã,çã-ã€Internet network
Operating System
Softwareã€ã³ãÿã-ã-ã«ã€IOSã€ã”è;çºãã•ã,CEã³ãã™ã€,
ãºãšã«ã-ã-ã«ã€ã,ãfãfã,³ã«ã²ã³ã,CEãÿã,ãfãf¼ã,ã«ã€ã€ã€ã€çºã
Cisco IOS ãfãfãf¼ã,¹ããã€ççšãã³ãã™ã€,ã«ã«ã»-ã«ã Cisco
ãfãf^ã,ã,¹ã«ã- show version
ã,³ãfžãf³ãf%ã«ãªã,,ã«ã€çºãã,ãºãšã€è”ã•ã,CEã³ãã™ã€,

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Cisco IOS ã,ãfãf¼ã,ã«ãçãšã™ã€,æš-ã•ãCE-ã,ãfãf¼ãf^ã,ã«ã,€IOS
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à❖"ã❖@ã,³ãfzãf³ãf%ã,ã®ÿè;CEã❖—ã❖|ã,,ã#°ãš>ã❖CEç"ÿæ^❖ã❖•ã,CEã❖ªã❖,,ã'ã❖^ã€❖HTTP
ã❖®èª❖è¨¼ãf—ãfã,ã,ã❖¯æœ%ãš¹ã❖«ã❖ªã❖£ã❖|ã❖,,ã❖¾ã❖>ã,"ã€,

Cisco IOS ã, ¯ãf©ã,ªãf³ãf^ãf-ã,¹ SSL VPNi¼^WebVPNi¼%ã<ª¼µã,µãf❖ãf¼ãf^ã❖CEæœ%ãš¹ã❖«ã❖ªã❖£ã❖|ã❖,,ã<ã❖<ã❖©ã❖†ã❖

ãf‡ãf❖ã,ªã,¹ã❖S Cisco IOS ã, ¯ãf©ã,ªãf³ãf^ãf-ã,¹ SSL
VPNi¼^WebVPNi¼%ã<ª¼µã,µãf❖ãf¼ãf^ã❖CEæœ%ãš¹ã❖«ã❖ªã❖£ã❖|ã❖,,ã<ã❖<ã❖©ã❖†ã❖
webvpn gateway ã,³ãfzãf³ãf%ã,ã...¥ãš>ã❖—ã❖¾ã❖™ã€,æ¬;ã❖®ã¾ã❖¯ã€❖Cisco IOS
ã, ¯ãf©ã,ªãf³ãf^ãf-ã,¹ SSL
VPNi¼^WebVPNi¼%ã<ª¼µã,µãf❖ãf¼ãf^ã❖CEæœ%ãš¹ã❖«ã❖ªã❖£ã❖|ã❖,,ã<ãf‡ãf❖ã,ªã,¹ã❖

<#root>

```
Router#  
show webvpn gateway
```

Gateway Name	Admin	Operation
-----	-----	-----
web-server	up	up

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IOS ã, ¯ãf©ã,ªãf³ãf^ãf-ã,¹ SSL

VPNi¼^WebVPNi¼%ã<ª¼µã,µãf❖ãf¼ãf^ã❖¯æœ%ãš¹ã❖«ã❖ªã❖£ã❖|ã❖,,ã❖¾ã❖>ã,"ã€,

è,,†ã¼±æ€šã,'ã❖«ã,"ã❖šã❖,,ã❖ªã❖,,ã❖"ã❖"ã❖CEçç°èª❖ã❖•ã,CEã❖ÿè£½ã❖

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è©³ç'°

SSL ã❖"ã❖¯ã€❖2

ã❖ªã❖®ãfã,¹ãf'é-ã❖šã❖®æž¥ç¶šã❖®ã®%ã...¨æ€šã,'é«ã,ã<è¨è¨ã❖«ã❖ªã❖£ã❖|ã❖,,ã<ã
ãf—ãfãf^ã,³ãf«ã❖¯ã€❖RFC4346

ã❖šã®šç¾ã❖•ã,CEã❖|ã❖,,ã❖¾ã❖™ã€,ã❖"ã❖®ã,çãf%ããf❖ã,ªã,¶ãfªã,'çç†èš£ã❖™ã<ã❖ÿã,ã❖ã
ã❖®ã,»ã,¯ã,ãfšãf³ã€CE7.3 handshake Protocol

Overviewã❖ã❖šã,^ã❖³ã❖CEã,»ã,¯ã,ãfšãf³ã†...ã❖®ã³ 1

ã,'çç°èª❖ã❖™ã<ã❖"ã❖"ã❖'æž¨¨ã¥¨ã❖,,ã❖ÿã❖—ã❖¾ã❖™ã€,RFC4346ã❖®ã†ã,ã,¹ãf^ã❖¯ã€❖[http://7.3ã❖šã...¥æ%ã❖šã❖ã❖¾ã❖™ã€,](#)

æ'»æ'fè€...ã™ TCP

æŽŸçŸšã®çç°ç««ã¼CEã€ãf|ãf¼ã,Ÿã°/ãfã,¹ãfãf¼ãf%ã¼ãŸã™è¼æ~Žæ>ãªã©ã®

TCP ã,¹ãfãf¼ã,|ã,šã,ª
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IP
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SSL
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ã-ã"ã®ã,^ãtãªæ³"ã...Ÿã<ã,%ããfãfã,ã,¹ã,'ãçè-ã—ã¼ã™ã€ã,ãŸãã—ã€ã

TCP RST
ãªã©ã,ã»ã«ã—ã|ç°ã,çµ,ã°tã™ã,ã'ã^ãCEã,ã,šã¼ã™ã€ã,ã"ã®ã'ã^ã€æ"»æ

SSL ã,»ãffã,ãfšãf³ãCEçç°ç««ã•ã,CEã,ã¼ãšã¼...æ©Ÿã—ã€æ-ã—ã,, SSL
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ClientHello

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è,,tã¼±æ€šã®ã,ã,ãfãfãfã,ã,¹ã-ã€ã,æ£ã½çã¼ã® ClientHello
ãf;ãffã,»ãf¼ã,ã,ã#|çtã™ã,ã"ã,ãfãffã,ãfãã™ã,ãèf½æ€šãCEã,ã,šã¼ã™ã€ã,Clie
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ã"ã®è,,tã¼±æ€šã-ã€Cisco Bug ID

[CSCsb12598](#)(ç™>€Eãfãf¼ã,Ÿã°,ç"")ã«è¼æ°ã•ã,CEã|ã,,ã¼ã™

ChangeCipherSpec

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è,,tã¼±æ€šã®ã,ã,ãfãfãfã,ã,¹ã-ã€ã,æ£ã½çã¼ã® ChangeCipherSpec
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ãf;ãffã,»ãf¼ã,ã-ã€Cisco Hello ãf;ãffã,»ãf¼ã,ãšã,^ã³ ServerHello
ãf;ãffã,»ãf¼ã,ã®ãªæ»ã¼CEã«ã®ãçjã€ãçjãšã¼ã™ã€ã,ã»ã"ã"ã®ã
ãf;ãffã,»ãf¼ã,ã-æš—ããCE-ã•ã,CEãŸãfãfãfãfã«ãt...ãš€ãçjãã•ã,CEã¼ã™ã€ã,

ã"ã®è,,tã¼±æ€šã-ã€Cisco Bug ID

[CSCsb40304](#)(ç™>€Eãfãf¼ã,Ÿã°,ç"")ã"ã—ã|æ-ªæ>ãCE-ã•ã,CEã|ã,,ã¼ã™

Finished

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Finished

CSCsd92405

Cisco Bug ID

CSCsd92405

Cisco Common Vulnerability Scoring

Systemi14^CVSSI14%0

Systemi14^CVSSI14%0

Cisco

Environmenti14^Environmental Scorei14%

Environmenti14^Environmental Scorei14%

Cisco PSIRT

Cisco PSIRT

CVSS

CVSS

<http://www.cisco.com/web/about/security/intelligence/cvss-gandas.html>

<http://www.cisco.com/web/about/security/intelligence/cvss-gandas.html>

<https://sec.cloudapps.cisco.com/security/center/cvssCalculator.x>

CSCsb12598i14sProcessing ClientHello

CSCsb12598a

CVSS

æ'»æ'fâ...fâCEâ^†	æ'»æ'fæ;ä»¶ã®èè†é'ã®	[Authentication]	æ©Yâ†æ€šã®,ã®â½±éY; â®CEâ.
Remote	ä½Zã,,	ä,®è ®	ã®aã®—

ç ¼ç Š ¶ã, 1ã, 3ã, ç ¶¼š 2.7		
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[CSCsb40304 ¶¼š Processing Change Cipher S](#)
[CSCsb40304ã ®ç°ãçfã, 1ã, 3ã, çã, è”^ç](#)

CVSS åÿ°æœ-ã, 1ã, 3ã, ç ¶¼š 3.3				
æ”»æ’fã...fãÇ°ã†	æ”»æ’fã ¯ã»¶ã ®èç†é’ã •	[Authentication]	æ©ÿã†æ€šã,ã ®ã½±éÿ; å®Çã.	
Remote	ã½žã,,	ã, è	ãªã—	ãªã

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[CSCsd92405 ¶¼š Processing Finished r](#)
[CSCsd92405ã ®ç°ãçfã, 1ã, 3ã, çã, è”^ç](#)

CVSS åÿ°æœ-ã, 1ã, 3ã, ç ¶¼š 3.3				
æ”»æ’fã...fãÇ°ã†	æ”»æ’fã ¯ã»¶ã ®èç†é’ã •	[Authentication]	æ©ÿã†æ€šã,ã ®ã½±éÿ; å®Çã.	

Remote	ä/žZä,,	ä, è	ãªã—	ãªã
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ã»žé ç-

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amb-20070522-SSL

ã, 3ãfãf^ãfãf¼ãf«ãf—ãf-ãf¼ãf³ãfãfã, ãf³ã, °¼^CoPP¼%

ã, 3ãf³ãf^ãfãf¼ãf«ãf—ãf-ãf¼ãf³ãfãfã, ãf³ã, °¼šã, 3ãf³ãf^ãfãf¼ãf«ãf—ãf-ãf¼ãf³ãfãfã, ãf³ã, °(CoPP
 ãã€Cisco IOSãfãfãf¼ã, 1ãf^ãf-ã, mãf³
 12.0Sã€12.2SXã€12.2Sã€12.3Tã€12.4ã€ãšã, ^ã³ 12.4T
 ãšã½ç'ãšããã¼ã™ã€,

æ-ã® CoPPã®ã¼ãšããã€permit
 ã, çã, ã, ãfšãf³ãÇãã, ã, šã, ªç'ãfã, ±ãffãfãã, ã, èã'ã™ã, <ACL
 ã, ãf³ãf^ãfããÇããããã, ãf¼ãfžãffãf—ã®drop
 æ©ÿèf½ã«ã, ^ã£ã|ã»fæ£, ã•ã, Çã¼ã™ãÇããã€ã€ã€ã€denyã€ã, çã, ã, ãfšãf³i¼^èjçªãã
 ãfžãffãf—dropæ©ÿèf½ã«ã`è²ã½"ã—ã¼ãã, ã, ã€,

! Include deny statements up front for any protocols/ports/IP addresses that
 !-- should not be impacted by CoPP

! Include permit statements for the protocols/ports that will be governed by CoPP
 access-list 100 permit tcp any any eq 443

!-- 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-SSL-class
match access-group 100

!
!-- Create a Policy-Map that will be applied to the
!-- Control-Plane of the device.
!
policy-map drop-SSL-policy
class drop-SSL-class
drop

!-- Apply the Policy-Map to the Control-Plane of the
!-- device.
!
control-plane
service-policy input drop-SSL-policy

```

Cisco IOS 12.0S 12.2S 12.2SX

```

policy-map drop-SSL-policy
class drop-SSL-class
police 32000 1500 1500 conform-action drop exceed-action drop

```

CoPP

<http://www.cisco.com>

Access Control List

```

access-list 101 permit tcp host <legitimate_host_IP_address> host <router_IP_address> port 443
access-list 101 deny tcp any any port 443

```

```

access-list 101 permit tcp host <legitimate_host_IP_address> host <router_IP_address> port 443
access-list 101 deny tcp any any port 443

```


12.0XI	è,,†â¼±æ€§ã,ã,Šã€ 12.2(46)ä»¥é™ã«çš»è;€	
12.0XK	è,,†â¼±æ€§ã,ã,Šã€ 12.2(46)ä»¥é™ãã«çš»è;€	
12.0XL	è,,†â¼±æ€§ã,ã,Šã€ 12.2(46)ä»¥é™ãã«çš»è;€	
12.0XN	è,,†â¼±æ€§ã,ã,Šã€ 12.2(46)ä»¥é™ãã«çš»è;€	
12.0XQ	è,,†â¼±æ€§ã,ã,Šã€ 12.2(46)ä»¥é™ãã«çš»è;€	
12.0XR	è,,†â¼±æ€§ã,ã,Šã€ 12.2(46)ä»¥é™ãã«çš»è;€	
12.0XV	è,,†â¼±æ€§ã,ã,Šã€ 12.2(46)ä»¥é™ãã«çš»è;€	
è²â½“ã™ã, < 12.1 ãª™ãª¼ã,¹ã®ãªãª¼ã,¹	ãªãª“ãª<ãª% ãª;ãª³ãª†ãªŠãª³ã,¹	
12.1	è,,†â¼±æ€§ã,ã,Šã€ 12.2(46)ä»¥é™ãã«çš»è;€	
12.1AY	è,,†â¼±æ€§ã,ã,Šã€ 12.1(22)EA9ä»¥é™ãã«çš»è;€	
12.1CX	è,,†â¼±æ€§ã,ã,Šã€ 12.2(46)ä»¥é™ãã«çš»è;€	
12.1E	12.1(26)E8	
	12.1(27b)E2ã€,2007 â¹ 6 æœ^ 25 æ—¥ã...—é—	
12.1EA	12.1(22)EA9	

12.1EB	12.1(26)EB2ã€¸,2007 å¹ 7 æœ^ 30 æ—¥ã…-é<	
12.1EC	è,,†å¼±æ€§ã€¸,ã,Šã€ 12.3(21)BCä»¥é™ã€¸ã€¸«ç§»è;€	
12.1EW	è,,†å¼±æ€§ã€¸,ã,Šã€ 12.2(25)EWA9ä»¥é™ã€¸ã€¸«ç§»è;€	
12.1EX	è,,†å¼±æ€§ã€¸,ã,Šã€ 12.1(26)E8ä»¥é™ã€¸ã€¸«ç§»è;€	
12.1EY	è,,†å¼±æ€§ã€¸,ã,Šã€ 12.1(26)E8ä»¥é™ã€¸ã€¸«ç§»è;€	
12.1T	è,,†å¼±æ€§ã€¸,ã,Šã€ 12.2(46)ä»¥é™ã€¸ã€¸«ç§»è;€	
12.1XC	è,,†å¼±æ€§ã€¸,ã,Šã€ 12.2(46)ä»¥é™ã€¸ã€¸«ç§»è;€	
12.1XD	è,,†å¼±æ€§ã€¸,ã,Šã€ 12.2(46)ä»¥é™ã€¸ã€¸«ç§»è;€	
12.1XF	è,,†å¼±æ€§ã€¸,ã,Šã€ 12.3(22)ä»¥é™ã€¸ã€¸«ç§»è;€	
12.1XG	è,,†å¼±æ€§ã€¸,ã,Šã€ 12.3(22)ä»¥é™ã€¸ã€¸«ç§»è;€	
12.1XH	è,,†å¼±æ€§ã€¸,ã,Šã€ 12.2(46)ä»¥é™ã€¸ã€¸«ç§»è;€	
12.1XI	è,,†å¼±æ€§ã€¸,ã,Šã€ 12.2(46)ä»¥é™ã€¸ã€¸«ç§»è;€	
12.1XJ	è,,†å¼±æ€§ã€¸,ã,Šã€ 12.3(22)ä»¥é™ã€¸ã€¸«ç§»è;€	
12.1XL	è,,†å¼±æ€§ã€¸,ã,Šã€ 12.3(22)ä»¥é™ã€¸ã€¸«ç§»è;€	
12.1XM	è,,†å¼±æ€§ã€¸,ã,Šã€ 12.3(22)ä»¥é™ã€¸ã€¸«ç§»è;€	

12.1XP	è,,†â¼±æ€§ã,ã,Šã€ 12.3(22)ä»¥é™ã«çš»è;Ĉ	
12.1XQ	è,,†â¼±æ€§ã,ã,Šã€ 12.3(22)ä»¥é™ãã«çš»è;Ĉ	
12.1XT	è,,†â¼±æ€§ã,ã,Šã€,12.3(22)ä»¥é™ãã«çš»è;Ĉã—ã ããã	
12.1XU	è,,†â¼±æ€§ã,ã,Šã€,12.3(22)ä»¥é™ããã«çš»è;Ĉã—ã ãããã	
12.1YB	è,,†â¼±æ€§ã,ã,Šã€,12.3(22)ä»¥é™ããã«çš»è;Ĉã—ã ãããã	
12.1YC	è,,†â¼±æ€§ã,ã,Šã€ 12.3(22)ä»¥é™ããã«çš»è;Ĉ	
12.1YD	è,,†â¼±æ€§ã,ã,Šã€,12.3(22)ä»¥é™ããã«çš»è;Ĉã—ã ãããã	
12.1YE	è,,†â¼±æ€§ã,ã,Šã€ 12.3(22)ä»¥é™ããã«çš»è;Ĉ	
12.1YF	è,,†â¼±æ€§ã,ã,Šã€ 12.3(22)ä»¥é™ããã«çš»è;Ĉ	
12.1YI	è,,†â¼±æ€§ã,ã,Šã€,12.3(22)ä»¥é™ããã«çš»è;Ĉã—ã ãããã	
è²â½“ã™ã, < 12.2 ãf™ãf¼ã,¹ã®ãfªãf¼ã,¹	ãfªãf“ãf«ãf% ãfªãf³ãf†ãfŠãf³ã,¹	ãfªãf³ãf†ãfŠãf³ã,¹
12.2	12.2(40a)	12.2(46)
12.2B	è,,†â¼±æ€§ã,ã,Šã€ 12.4(10)ä»¥é™ããã«çš»è;Ĉ	
12.2BC	è,,†â¼±æ€§ã,ã,Šã€ 12.3(21)BCä»¥é™ããã«çš»è;Ĉ	
12.2BW	è,,†â¼±æ€§ã,ã,Šã€ 12.3(22)ä»¥é™ãã,çš»è;Ĉ	

12.2BY	è,,†â¼±æ€§ã,ã,Šă€ 12.4(10)ä»¥é™ã«çš»è;Ĉ	
12.2BZ	è,,†â¼±æ€§ã,ã,Šă€,TACã«ãŠă•ã,,â^ã,ã»ãããã•ã	
12.2CX	è,,†â¼±æ€§ã,ã,Šă€ 12.3(21)BCä»¥é™ã«çš»è;Ĉ	
12.2CY	è,,†â¼±æ€§ã,ã,Šă€ 12.3(21)BCä»¥é™ã«çš»è;Ĉ	
12.2CZ	è,,†â¼±æ€§ã,ã,Šă€,TACã«ãŠă•ã,,â^ã,ã»ãããã•ã	
12.2DD	è,,†â¼±æ€§ã,ã,Šă€ 12.4(10)ä»¥é™ã«çš»è;Ĉ	
12.2EW	è,,†â¼±æ€§ã,ã,Šă€ 12.2(25)EWA9ä»¥é™ã«çš»è;Ĉ	
12.2EWA	12.2(25)EWA9	
12.2EX	è,,†â¼±æ€§ã,ã,Šă€ 12.2(25)SEE3ä»¥é™ã«çš»è;Ĉ	
12.2EY	è,,†â¼±æ€§ã,ã,Šă€ 12.2(25)SEE3ä»¥é™ã«çš»è;Ĉ	
12.2EZ	è,,†â¼±æ€§ã,ã,Šă€ 12.2(25)SEE3ä»¥é™ã«çš»è;Ĉ	
12.2FX	è,,†â¼±æ€§ã,ã,Šă€ 12.2(25)SEE3ä»¥é™ã«çš»è;Ĉ	
12.2FY	è,,†â¼±æ€§ã,ã,Šă€ 12.2(25)SEG2ä»¥é™ã«çš»è;Ĉ	
12.2FZ	è,,†â¼±æ€§ã,ã,Šă€ 12.2(35)SEä»¥é™ã«çš»è;Ĉ	
12.2JA	è,,†â¼±æ€§ã,ã,Šă€,12.3(11)JAä»¥é™ã«çš»è;Ĉä—ã ãã	

12.2JK	è,,†â¼±æ€§ã,ã,Šã€ 12.4(11)Tä»¥é™ã«çš»è;€	
12.2S	12.2(14)S13a	12.2(25)S12
	12.2(18)S0a	
	12.2(20)S9a	
12.2SB	12.2(28)SB4b	
	12.2(31)SB2	
12.2SBC	è,,†â¼±æ€§ã,ã,Šã€,12.2(31)SB2ä»¥é™ã«çš»è;€ã—ã ãã	
12.2SE		12.2(35)SE
12.2SEA	è,,†â¼±æ€§ã,ã,Šã€ 12.2(25)SEE3ä»¥é™ã«çš»è;€	
12.2SEB	è,,†â¼±æ€§ã,ã,Šã€ 12.2(25)SEE3ä»¥é™ã«çš»è;€	
12.2SEC	è,,†â¼±æ€§ã,ã,Šã€ 12.2(25)SEE3ä»¥é™ã«çš»è;€	
12.2SED	è,,†â¼±æ€§ã,ã,Šã€ 12.2(25)SEE3ä»¥é™ã«çš»è;€	
12.2SEE	12.2(25)SEE3	
12.2SEF	è,,†â¼±æ€§ã,ã,Šã€ 12.2(35)SEä»¥é™ã«çš»è;€	
12.2SEG	12.2(25)SEG2	

12.2SG	12.2(37)SG	
12.2SGA	12.2(31)SGA2ã€²,2007 á¹´ 6 æœ^ 11 æ—¥á...-é-«	
12.2SRA	12.2(33)SRA2	
12.2SU	è,,†â¼±æ€§ã€š,ã,Šã€ 12.4(10)ä»¥é™ã€šã€«çš»è;€	
12.2SV	12.2(28)SV2	
	12.2(29)SV3	
12.2SW	12.2(25)SW9	
12.2SX	è,,†â¼±æ€§i¼š12.2(18)SXE6aä»¥é™ã€šã€«çš»è;€	
12.2SXA	è,,†â¼±æ€§i¼š12.2(18)SXE6aä»¥é™ã€šã€«çš»è;€	
12.2SXB	è,,†â¼±æ€§i¼š12.2(18)SXE6aä»¥é™ã€šã€«çš»è;€	
12.2SXD	è,,†â¼±æ€§ã€š,ã,Šã€ 12.2(18)SXE6aã€šã€«çš»è;€	
12.2SXE	12.2(18)SXE6a	
12.2SXF	12.2(18)SXF8	
12.2SY	è,,†â¼±æ€§i¼š12.2(18)SXE6aä»¥é™ã€šã€«çš»è;€	
12.2T	è,,†â¼±æ€§ã€š,ã,Šã€ 12.3(22)ä»¥é™ã€šã€«çš»è;€	

12.2TPC	12.2(8)TPC10b	
12.2XA	è,,†â¼±æ€§ã,ã,Šã€ 12.3(22)ä»¥é™ã«ç§»è;€	
12.2XB	è,,†â¼±æ€§ã,ã,Šã€ 12.3(22)ä»¥é™ã«ç§»è;€	
12.2XD	è,,†â¼±æ€§ã,ã,Šã€ 12.3(22)ä»¥é™ã«ç§»è;€	
12.2XE	è,,†â¼±æ€§ã,ã,Šã€ 12.3(22)ä»¥é™ã«ç§»è;€	
12.2XF	è,,†â¼±æ€§ã,ã,Šã€ 12.3(21)BCä»¥é™ã«ç§»è;€	
12.2XG	è,,†â¼±æ€§ã,ã,Šã€ 12.3(22)ä»¥é™ã«ç§»è;€	
12.2XH	è,,†â¼±æ€§ã,ã,Šã€ 12.3(22)ä»¥é™ã«ç§»è;€	
12.2XI	è,,†â¼±æ€§ã,ã,Šã€ 12.3(22)ä»¥é™ã«ç§»è;€	
12.2XJ	è,,†â¼±æ€§ã,ã,Šã€ 12.3(22)ä»¥é™ã«ç§»è;€	
12.2 XK	è,,†â¼±æ€§ã,ã,Šã€ 12.3(22)ä»¥é™ã«ç§»è;€	
12.2XL	è,,†â¼±æ€§ã,ã,Šã€ 12.3(22)ä»¥é™ã«ç§»è;€	
12.2XM	è,,†â¼±æ€§ã,ã,Šã€ 12.3(22)ä»¥é™ã«ç§»è;€	
12.2XN	è,,†â¼±æ€§ã,ã,Šã€ 12.3(22)ä»¥é™ã«ç§»è;€	
12.2XQ	è,,†â¼±æ€§ã,ã,Šã€ 12.3(22)ä»¥é™ã«ç§»è;€	

12.2XR	è,,†â¼±æ€§ã,ã,Šă€ 12.3(22)ä»¥é™ã«çš»è;€
12.2XS	è,,†â¼±æ€§ã,ã,Šă€ 12.3(22)ä»¥é™ã«çš»è;€
12.2XT	è,,†â¼±æ€§ã,ã,Šă€ 12.3(22)ä»¥é™ã«çš»è;€
12.2XU	è,,†â¼±æ€§ã,ã,Šă€ 12.3(22)ä»¥é™ã«çš»è;€
12.2XV	è,,†â¼±æ€§ã,ã,Šă€ 12.3(22)ä»¥é™ã«çš»è;€
12.2XW	è,,†â¼±æ€§ã,ã,Šă€ 12.3(22)ä»¥é™ã«çš»è;€
12.2YA	è,,†â¼±æ€§ã,ã,Šă€ 12.3(22)ä»¥é™ã«çš»è;€
12.2YB	è,,†â¼±æ€§ã,ã,Šă€ 12.3(22)ä»¥é™ã«çš»è;€
12.2YC	è,,†â¼±æ€§ã,ã,Šă€ 12.3(22)ä»¥é™ã«çš»è;€
12.2YD	è,,†â¼±æ€§ã,ã,Šă€ 12.4(10)ä»¥é™ã«çš»è;€
12.2YE	è,,†â¼±æ€§ã,ã,Šă€ 12.2(25)S12ä»¥é™ã«çš»è;€
12.2YF	è,,†â¼±æ€§ã,ã,Šă€ 12.3(22)ä»¥é™ã«çš»è;€
12.2YJ	è,,†â¼±æ€§ã,ã,Šă€ 12.3(22)ä»¥é™ã«çš»è;€
12.2YL	è,,†â¼±æ€§ã,ã,Šă€ 12.4(10)ä»¥é™ã«çš»è;€
12.2YM	è,,†â¼±æ€§ã,ã,Šă€ 12.4(10)ä»¥é™ã«çš»è;€

12.2YN	è,,†â¼±æ€§ã,ã,Šã€ 12.4(10)ä»¥é™ã«çš»è;Ĉ
12.2YQ	è,,†â¼±æ€§ã,ã,Šã€ 12.4(10)ä»¥é™ãã«çš»è;Ĉ
12.2YR	è,,†â¼±æ€§ã,ã,Šã€ 12.4(10)ä»¥é™ãã«çš»è;Ĉ
12.2YU	è,,†â¼±æ€§ã,ã,Šã€ 12.4(10)ä»¥é™ãã«çš»è;Ĉ
12.2YV	è,,†â¼±æ€§ã,ã,Šã€ 12.4(10)ä»¥é™ãã«çš»è;Ĉ
12.2YW	è,,†â¼±æ€§ã,ã,Šã€ 12.4(10)ä»¥é™ãã«çš»è;Ĉ
12.2YX	è,,†â¼±æ€§ã,ã,Šã€ 12.4(10)ä»¥é™ãã«çš»è;Ĉ
12.2YY	è,,†â¼±æ€§ã,ã,Šã€ 12.4(10)ä»¥é™ãã«çš»è;Ĉ
12.2YZ	è,,†â¼±æ€§ã,ã,Šã€,TACã«ãŠã•ã„ã^ã,ã»ããããã•ã
12.2ZA	è,,†â¼±æ€§i¼š12.2(18)SXE6aä»¥é™ãã«çš»è;Ĉ
12.2ZB	è,,†â¼±æ€§ã,ã,Šã€ 12.4(10)ä»¥é™ãã«çš»è;Ĉ
12.2ZD	è,,†â¼±æ€§ã,ã,Šã€,TACã«ãŠã•ã„ã^ã,ã»ããããããã•ã
12.2ZE	è,,†â¼±æ€§ã,ã,Šã€ 12.3(22)ä»¥é™ãã«çš»è;Ĉ
12.2ZF	è,,†â¼±æ€§ã,ã,Šã€ 12.4(10)ä»¥é™ãã«çš»è;Ĉ
12.2ZH	è,,†â¼±æ€§ã,ã,Šã€,TACã«ãŠã•ã„ã^ã,ã»ããããããã•ã

12.2ZJ	è,,†â¼±æ€§ã,ã,Šã€12.4(10)ä»¥é™ã«çš»è;Ĉ	
12.2ZL	è,,†â¼±æ€§ã,ã,Šã€,TACã«ãŠã•ã„,â^ã,ã>ããããã•ã	
12.2ZN	è,,†â¼±æ€§ã,ã,Šã€12.4(10)ä»¥é™ã«çš»è;Ĉ	
12.2ZU	è,,†â¼±æ€§ã,ã,Šã€,TACã«ãŠã•ã„,â^ã,ã>ããããã•ã	
12.2ZV	è,,†â¼±æ€§ã,ã,Šã€,TACã«ãŠã•ã„,â^ã,ã>ããããã•ã	
12.2ZW	è,,†â¼±æ€§ã,ã,Šã€,TACã«ãŠã•ã„,â^ã,ã>ããããã•ã	
12.2ZX	è,,†â¼±æ€§ã,ã,Šã€,TACã«ãŠã•ã„,â^ã,ã>ããããã•ã	
è©²â½“ã™ã,< 12.3 ãƒ™ãƒ¼ã,¹ã®ãƒªãƒ¼ã,¹	ãƒªãƒ“ãƒ«ãƒ%°	ãƒ;ãƒ³ãƒ†ãƒŠãƒ³ã,¹
12.3	12.3(21a)	12.3(22)
12.3B	è,,†â¼±æ€§ã,ã,Šã€12.4(10)ä»¥é™ã«çš»è;Ĉ	
12.3BC	12.3(17b)BC5	12.3(21)BC
12.3JA		12.3(11)JA
12.3JEA		12.3(8)JEA
12.3JK	è,,†â¼±æ€§ã,ã,Šã€,TACã«ãŠã•ã„,â^ã,ã>ããããã•ã	
12.3JX	è,,†â¼±æ€§ã,ã,Šã€,TACã«ãŠã•ã„,â^ã,ã>ããããã•ã	

12.3T	è,,†â¼±æ€§ã,ã,Šã€ 12.4(10)ä»¥é™ã«çš»è;Ĉ	
12.3TPC	12.2(8)TPC10b	
12.3XA	è,,†â¼±æ€§ã,ã,Šã€,TACã«ãŠã•ã„ã^ã,ã»ããããã•ã	
12.3XB	è,,†â¼±æ€§ã,ã,Šã€ 12.4(10)ä»¥é™ãã«çš»è;Ĉ	
12.3XC	è,,†â¼±æ€§ã,ã,Šã€,TACã«ãŠã•ã„ã^ã,ã»ããããããã•ã	
12.3XD	è,,†â¼±æ€§ã,ã,Šã€ 12.4(10)ä»¥é™ãã«çš»è;Ĉ	
12.3XE	è,,†â¼±æ€§ã,ã,Šã€,TACã«ãŠã•ã„ã^ã,ã»ããããããã•ã	
12.3XF	è,,†â¼±æ€§ã,ã,Šã€ 12.4(10)ä»¥é™ãã«çš»è;Ĉ	
12.3XG	è,,†â¼±æ€§ã,ã,Šã€,TACã«ãŠã•ã„ã^ã,ã»ããããããã•ã	
12.3XH	è,,†â¼±æ€§ã,ã,Šã€ 12.4(10)ä»¥é™ãã«çš»è;Ĉ	
12.3XI	è,,†â¼±æ€§ã,ã,Šã€,TACã«ãŠã•ã„ã^ã,ã»ããããããã•ã	
12.3XJ	è,,†â¼±æ€§ã,ã,Šã€ 12.4(11)Tä»¥é™ãã«çš»è;Ĉ	
12.3XK	è,,†â¼±æ€§ã,ã,Šã€,TACã«ãŠã•ã„ã^ã,ã»ããããããã•ã	
12.3XQ	è,,†â¼±æ€§ã,ã,Šã€ 12.4(10)ä»¥é™ãã«çš»è;Ĉ	
12.3XR	è,,†â¼±æ€§ã,ã,Šã€,TACã«ãŠã•ã„ã^ã,ã»ããããããã•ã	

12.3XS	è,,†â¼±æ€§ã,ã,Šă€ 12.4(10)ä»¥é™ã«çš»è;Ĳ	
12.3XU	è,,†â¼±æ€§ã,ã,Šă€ 12.4(11)Tä»¥é™ã«çš»è;Ĳ	
12.3XW	è,,†â¼±æ€§ã,ã,Šă€ 12.4(11)Tä»¥é™ã«çš»è;Ĳ	
12.3XX	12.3(8)XX2d	
12.3YA	è,,†â¼±æ€§ã,ã,Šă€,TACã«ãŠă,ã„,â^ã,ã>ããããã•ã	
12.3YD	è,,†â¼±æ€§ã,ã,Šă€ 12.4(11)Tä»¥é™ã«çš»è;Ĳ	
12.3YF	è,,†â¼±æ€§ã,ã,Šă€ 12.4(11)Tä»¥é™ã«çš»è;Ĳ	
12.3YG	è,,†â¼±æ€§ã,ã,Šă€ 12.4(11)Tä»¥é™ã«çš»è;Ĳ	
12.3YH	è,,†â¼±æ€§ã,ã,Šă€ 12.4(11)Tä»¥é™ã«çš»è;Ĳ	
12.3YI	è,,†â¼±æ€§ã,ã,Šă€ 12.4(11)Tä»¥é™ã«çš»è;Ĳ	
12.3YK	è,,†â¼±æ€§ã,ã,Šă€ 12.4(11)Tä»¥é™ã«çš»è;Ĳ	
12.3YQ	è,,†â¼±æ€§ã,ã,Šă€ 12.4(11)Tä»¥é™ã«çš»è;Ĳ	
12.3YS	è,,†â¼±æ€§ã,ã,Šă€ 12.4(11)Tä»¥é™ã«çš»è;Ĳ	
12.3YT	è,,†â¼±æ€§ã,ã,Šă€ 12.4(11)Tä»¥é™ã«çš»è;Ĳ	
12.3YU	è,,†â¼±æ€§ã,ã,Šă€,TACã«ãŠă,ã„,â^ã,ã>ããããã•ã	

12.3YX	è,,†â¼±æ€§ã,ã,Šã€ 12.4(11)Tä»¥é™ã«çš»è;Ě	
12.3YZ	è,,†â¼±æ€§ã,ã,Šã€,TACã«ãŠă•ã„â^ã,ã»ãããã•ã	
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12.4	12.4(3h)	12.4(10)
	12.4(7d)	
	12.4(8c)	
12.4T	12.4(4)T6	12.4(11)T
	12.4(6)T7	
	12.4(9)T3	
12.4XA	è,,†â¼±æ€§ã,ã,Šã€ 12.4(11)Tä»¥é™ã«çš»è;Ě	
12.4XB	è,,†â¼±æ€§ã,ã,Šã€,TACã«ãŠă•ã„â^ã,ã»ãããããã•ã	
12.4XC	12.4(4)XC4	
12.4XD	12.4(4)XD5	
12.4XE	è,,†â¼±æ€§ã,ã,Šã€,TACã«ãŠă•ã„â^ã,ã»ãããããã•ã	

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翻訳について

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