

# ã·§ã!™ã «ç´°ã·¥ã•ã,Œã ÝIPã,ªãf—ã,·ãfšãf³ã



ã,çãf%ãfã,ã,¶ã,¶ãfªãf¼ID : cisco-sa-

[CVE-2007-](#)

20070124-crafted-ip-option

[0480](#)

â^ã...-é-œ—¥ : 2007-01-24 16:00

ãfãf¼ã,ãfšãf³ 2.0 : Final

CVSSã,1ã,3ã,ç : [10.0](#)

ã>žéç- : No Workarounds available

Cisco ãfã,° ID : [CSCec71950](#)

æ—¥ææ-èªžã «ã,^ã,œf...ã ±ã -ã€è±èªžã «ã,^ã,ãžÿæ-†ã ®éžã...-ã¼ã

æ!,è! ?

Cisco IOSã¼ãÝã Cisco IOS

XRã,½ãfãf^ã,|ã,šã,çã,'ã®ÿè;Œã—ã |ã,,ã,œCiscoãfãf¼ã,çã Šã,^ã³ã,1ã,¶ãffãfããã€ãfãf of

Service(DoS)æ»æ'fãã¼ã—ã |è,,†ã¼±æãã'ã^ãŒã,ã,šã¼ã™ã€,ã"ã®è,,†ã¼±æ

Control Message Protocol(ICMP)ãfã,±ãffãf^ã€Protocol Independent Multicast version

2(PIMv2)ãfã,±ãffãf^ã€Pragmatic General

Multicast(PGM)ãfã,±ãffãf^ã€ã¼ãÝããfã,±ãffãf^ã®IPãfãffãfãf¼ã«ç%ã¹ã®šã®ã·šã | Rendezvous

Directory(URD)ãfã,±ãffãf^ã,'ã†|ç†ã—ãÝã¼Œã«ã,æfã^ç"ãã,œã,ãèf½æ€šãŒã

ã,ã,1ã,3ãšãã€è²ã½"ã™ã,ãŠã®çæš~ç"ã«ã€ãã"ã®è,,†ã¼±æ€šã«ã¼ãçœã™ã,

ã"ã®è,,†ã¼±æ€šã«ã¼ã—ã |ãã€ã½±éÿçã,'ç·ã'Œã™ã,ãÝã,ãã®ã>žéç-ãŒã

ã"ã®è,,†ã¼±æ€šãã†...éfãfã,1ãf^ãšç™ºè|ãã,œã¼ã—ãÝã€,

ã"ã®ã,çãf%ãfã,ã,¶ã,¶ãfªããã

<https://sec.cloudapps.cisco.com/security/center/content/CiscoSecurityAdvisory/cisco-sa-20070124-crafted-ip-option>ãšã...-é-œã,œã |ã,,ã¼ã™ã€,

è²ã½"è£½ã

è,,†ã¼±æ€šã®ã,ã,è£½ã

ã"ã®ã·é;Œãã€Cisco IOSã¼ãÝã Cisco IOS

XRã,½ãfãf^ã,|ã,šã,çã,'ã®ÿè;Œã—ã€Internet Protocol version





2.ãf'ã,±ãffãf^ã-æ-¡ã®ã,,ãšã,Æã<ã®ãf-ãfãf^ã,³ãf«ãšã™ã€,

• ICMPi¼šã,,ã,³ãf¹/4i¹/4^ã,¿ã,ªãf-8i¼%:ã€Epingã

• ICMP â€“ã,¿ã,ªãfã,¹ã,¿ãf³ãf-i¼^ã,¿ã,ªãf-13i¼%

• ICMPi¼šæf...ã±è!æ±,i¼^ã,¿ã,ªãf-15i¼%

• ICMP:Address Mask Request(Type 17)

• PIMv2:IPãf-ãfãf^ã,³ãf«103

• PGM:IPãf-ãfãf^ã,³ãf«113

• URD:TCPãfãf¼ãf^465

AND

3.è©²ã½“ãf±ãfã,ª,¹ãšè`ã®šã•ã,Æã|ã,,ã,<ç%©çtã¼ãÿã-ã»®æf³IPv4ã,çãf%o

ã»-ã®ICMPãf;ãffã,»ãf¼ã,ã,¿ã,ªãf-ã-ã®ã•é;Æã®ã½±éÿ¿ã,ã-ã'ã¼ã»ã,“ã€,

ã»-ã®IPãf-ãfãf^ã,³ãf«ã-ã®ã•é;Æã®ã½±éÿ¿ã,ã-ã'ã¼ã»ã,“ã€,

ã»-ã®TCPã,ªãf¼ãf^ã,¹ã-ã®ã•é;Æã®ã½±éÿ¿ã,ã-ã'ã¼ã»ã,“ã€,

ã,æfãfã,±ãffãf^ã-ã€ãfãf¼ã,«ãf«ãf»ãfãffãf^ãfãf¼ã,ã€ãfãfçãf¼ãf^ãf»ãfãffãf^ãfãf¼ã

é€ä¿ã...f IP

ã,çãf%oãf-ã,¹ã-ã½è...ã•ã,Æã|ã,,ã,ã“ã”ã,,ã€ããããtãšããã,,ã“ã”ã,,ã,ã

æ©ÿã™ã, 'é€ééÿã™ã,<(æ©ÿã™ã®ã,,ãšã,Æã<ã® IP

ã,çãf%oãf-ã,¹ãÆã®ã...ãšãã,,ãfã,±ãffãf^ã-æœ-è,,tã¼±æ€šã«ã,ã,ã,ã•é;Æã®ãf^ãf

ã“ã®è,,tã¼±æ€šã-ã»¥ã,ã«è”è¿ã•ã,Æã|ã,,ã¼ã™ã€,





~¼~ÿ~

<#root>

router#

show running-config

```
interface FastEthernet0/0
ip address 192.0.2.1 255.255.255.0
ip mask-reply
```

af†af•ã,©ãf«ãf^ãšãã€ãã™ã¹ã!ã©Cisco IOS

XRãfãf¼ã,ãfšãf³ã,ã@ÿè;Eã™ã,ããf†ãfã,ãã,¹ãã€ICMPã,çãf%ããf-ã,¹ãfžã,¹ã,è!æ±,¼^ã,žã

mask-

replyãEè"ãšããã,ãEã¼ã™ã€ãã"ã,ãEããã€æ-;ãã¼ãã«çã°ã™ã,^ããfã«show  
running-configã,³ãfžãf³ãf%ãã,'ç™°è;Eã™ã,ãã"è;çã°ãšããã¼ã™ã€,

<#root>

RP/0/RP0/CPU0:router#

show running-config | include mask-reply

```
Building configuration...
ipv4 mask-reply
```

~¼~ÿ~

<#root>

RP/0/RP0/CPU0:router#

show running-config

```
interface POS0/1/3/0
ipv4 address 192.0.2.1 255.255.255.252
ipv4 mask-reply
```

## Protocol Independent Multicast Version

2(PIMv2)ç"ã«è"ãšããã,ãEãÿããf†ãfã,ãã,¹

Cisco IOS

```
PIMv2af'a,±affaf^a,'a‡!ç tã™ã,ã,^ã tã«è"å@šã•ã,Œã |ã,,ã, Cisco
IOSã,'å@ÿè;Œã—ã |ã,,ã,ã,ãf«ãf¼ã,¿ã«ãã€ip
pimãšãšã¼ã,ã,ããfã,¿ãf¼ãf•ã,šã,ãã,¹è"å@šæ-‡ãŒã,ã,šã¼ã™ã€ã"ã,Œãã€-ã€æ-;ã
running-configã,³ãfžãf³ãf%ã,'ç™°è;Œã™ã,ã€è;ç°ãšããã¼ã™ã€,
```

```
<#root>
```

```
router#
show running-config | include ip pim
ip pim sparse-mode
```

```
ã¼ãÿã-
```

```
<#root>
```

```
router#
show running-config
interface FastEthernet0/0
ip address 192.0.2.1 255.255.255.0
ip pim sparse-dense-mode
```

```
æ-;ã@ã¼ã«ç°ã™ã,^ã tã«ã€show ip pim
```

```
interfaceã,³ãfžãf³ãf%ã,'ã½ç"ã—ã |ã€ãf«ãf¼ã,¿ãŒPIMv2af'a,±affaf^a,'a‡!ç tã™ã,ã,^ã tã«è"å@šã•ã,Œã |ã,,ã,ã,ãf«ãf¼ã,¿ã«ãã€
```

```
<#root>
```

```
router#
show ip pim interface
```

Address	Interface	Mode	Ver/Count	Nbr Intvl	Query Prior	DR	DR
192.0.2.1	FastEthernet0/0		v1/S	0	30	1	0.0.0.0
192.168.1.1	FastEthernet1/0		v2/SD	0	30	1	0.0.0.0

```
PIMv2ã,'å@ÿè;Œã—ã |ã,,ã,ã,ããfã,¿ãf¼ãf•ã,šã,ãã,¹ãšãã€[Ver/Mode]
```

```
ã—ã«ã€Œv2/ã€ã€è;ç°ã•ã,Œã¼ã™ã€,PIMãŒè"å@šã•ã,Œã |ã,,ã,ã,ããfã,¿ãf¼ã,¿ã«ãã€
```

```
PIMv2ããf‡ãf•ã,©ãf«ãfããPIMãfãf¼ã,ãšãfãšãšã™ã€,PIMv1ãf;ãffã,»ãf¼ã,ãã@ã¿ã,'å‡!ç
```



PIMv2 [http://www.cisco.com/en/US/docs/ios\\_xr\\_sw/iosxr\\_r3.3/multicast/c](http://www.cisco.com/en/US/docs/ios_xr_sw/iosxr_r3.3/multicast/c)

## Cisco IOS XR

### show pim

```
interface Loopback0  
IOS
```

```
XR#show ip pim interface Loopback0
```

```
<#root>
```

```
RP/0/0/CPU0:router#
```

```
show ip pim interface
```

Address	Interface	PIM	Nbr	Hello	DR	DR
			Count	Intvl	Prior	
192.168.1.1	Loopback0	on	1	30	1	this system
192.168.2.1	MgmtEth0/0/CPU0/0	off	0	30	1	not elected
192.168.3.1	Loopback1	on	1	30	1	this system
192.168.4.1	Loopback3	on	1	30	1	this system
192.168.5.1	POS0/4/0/0	on	1	30	1	this system
192.0.2.1	POS0/4/0/1	on	1	30	1	this system

```
PIMv2 on Loopback0, Loopback1, Loopback3, POS0/4/0/0, POS0/4/0/1
```

```
Cisco IOS XR#show ip pim interface Loopback0
```

```
XR#show ip pim interface Loopback0
```

```
Cisco IOS
```

```
XR#show ip pim interface Loopback0 http://www.cisco.com/en/US/docs/ios\_xr\_sw/iosxr\_r3.3/multicast/c
```

## Pragmatic General Multicast (PGM) on Cisco IOS XR

```
PGM is supported on Cisco IOS XR routers. For more information, see the Cisco IOS XR PGM Configuration Guide.
```

### pgm

```
router#show ip pim interface Loopback0
```

```
running-config interface Loopback0
```

```
<#root>
```

```
router#
```

```
show running-config | include ip pgm
```

```
ip pgm router
```

ã¼ãÿ

<#root>

router#

show running-config

```
interface FastEthernet1/0
  ip address 192.0.2.1 255.255.255.0
  ip pim sparse-dense-mode
  ip pgm router
```

ã¼ãÿ

<#root>

router#

show running-config

```
interface FastEthernet1/0
  ip address 192.0.2.1 255.255.255.0
  ip pgm router
```

PGMâ€è"åšã•ã,ã€|ã,,ãªã,,ã«ã¼ã,ãªã€PGMâ,,ã,ã,ãf—ãfã,ããf^ã«ã¼ã—ã

PGMâ€è©³ç°ã«ãªã,,ã|ãªã€<http://www.cisco.com/en/US/docs/ios/ipmulti/configuration/guide/>

Cisco IOS

XRãªPGMâ,ã,ããfã¼ãf^ã—ã|ã,,ãªã,,ãÿã,ã€ãã"ã€è,,ã¼±æ€šã,ã,æ£ã^©ç"

URLãf©ãf³ãfãf-ãf¼ãfã,ããf-ã,ãf^ãfª(URD)ç"ã«è"åšã•ã,ã€ÿãfããfãã,ãã,

URDãf'ã,±ãffãf^ã,'ã¼çããªã,ã,ããããã«è"åšã•ã,ã€ÿãfããf¼ã,ãªã€ãªã€ã,ããf³ã,ããf¼ãf

urdã¼ãÿip urd

proxyã€è"åšã•ã,ã€ã¼ãªã€ã,ãã,ã€ãªã€ã€æ-ãª€ã¼ã«çªãªã,ãããããã,ããfããf³ã

running-configã,çªªª;ãªªã,ãã"è;çªªªªãªªã¼ãªªã€,

<#root>

router#

```
show running-config | include ip urd
ip urd
```

```
~^3/4~^Y~^-
```

```
<#root>
```

```
router#
```

```
show running-config | include ip urd
ip urd proxy
```

```
~^3/4~^Y~^-
```

```
<#root>
```

```
router#
```

```
show running-config

interface FastEthernet1/0
 ip address 192.0.2.1 255.255.255.0
 ip pim sparse-mode
 ip urd
```

```
~^3/4~^Y~^-
```

```
<#root>
```

```
router#
```

```
show running-config

interface FastEthernet1/0
 ip address 192.0.2.1 255.255.255.0
 ip pim sparse-dense-mode
 ip urd proxy
```

```
~^3/4~^Y~^-
```

```
<#root>
```

router#

show running-config

```
interface FastEthernet1/0
ip address 192.0.2.1 255.255.255.0
ip urd
```

URDã€È`ã®šã•ã,Œã|ã,,ãªã,,ãf«ãf¼ã,¿ã¬ã€URDã€®æ,ªç""ã«ã³¼ã—ã|è,,tã¼

URDã€®è©³ç°ã«ãªã,,ã|ã¬ã€[http://www.cisco.com/en/US/docs/ios/12\\_2/ip/configuration/guide](http://www.cisco.com/en/US/docs/ios/12_2/ip/configuration/guide)

Cisco IOS

XRã¬URDã,ã,µãfãf¼ãf^ã—ã|ã,,ãªã,,ãYã,ãã€ãã"ã®è,,tã¼±æ€šã,'ä,æ£ã^©ç""

### ã»žé¿ç-

Cisco æ©Yã™ã«é©ç""ã¬èf½ãªè¿½ãšã®è»½æ,¿ç-ã«ãªã,,ã|ã¬ã»¥ä,ã®  
"Cisco Applied Intelligence companion document"ã,ã,šã...¥æ%ã«ã¬èf½ãšã™ã€,

<https://sec.cloudapps.cisco.com/security/center/content/CiscoAppliedMitigationBulletin/cisco-amb-20070124-crafted-ip-option>

### IPã,ªãf—ã,ãfšãf³ã®é,æšžçš,,ã»fæ£,,

IPã,ªãf—ã,ãfšãf³ã®é,æšžçš,,ãf%ãfãffãf—æ©Yèf½ã,ã½¿ç""ã™ã,ã"ã€Ciscoãf«ãf¼ã,¿ã¬ã

ææ€ã,,ãš!æžœçš,,ãª»žé¿ç-ã¬ã€ã,ªãfãf¼ãfãf«ã,ªãfãfã,£ã,®ãf¥ãf-ãf¼ã,ãfšãf³ã,ªãfžãf³ãf%ã

### options

dropã€®ã€Œdropã€ã,ªãf—ã,ãfšãf³ã,ã½¿ç""ã™ã,ã"ã"ã"ãšã™ã€ã"ã®ã,ªãfžãf³ãf%ã

IPã,ªãf—ã,ãfšãf³ã®é,æšžçš,,ãf%ãfãffãf—æ©Yèf½ã¬ã€Cisco

IOSã,½ãfãfã,|ã,šã,çãfãf¼ã,ãfšãf³12.0(23)S(12000)ã€12.0(32)S(10720)ã€ãšã,ã³12.3(4)Tã

ã"ã®ã,ªãfžãf³ãf%ã,ã±é-ã¬ã™ã,ã¬ã"ã€IPã,ªãf—ã,ãfšãf³ã,ã«ã,æ£ã½"ãªãfã,±ãffãf^ã,,ãf

NetMeetingãšã½¿ç""i¼%ã€MPLS TEã€MPLS

OAMã€DVMRPã€IGMPv3ã€IGMPv2ã€ãšã,ã³æ£ã½"ãªãPGMãŒã«ã¼ã,Œã¼ã

### æ³i¼šã,ªãfãf¼ãfãf«ã,ªãfžãf³ãf%ãip options

ignoreã®ignoreã,ªãf—ã,ãfšãf³ã¬ã€12.0(23)Sã»¥é™ã®Cisco

12000ãf«ãf¼ã,¿ãšã®ã¿ã½¿ç""ã¬èf½ãšã,ãšã€ã"ã®ãª»é;Œã®ãžé¿ç-ãšã

IPã,ªãf—ã,ãfšãf³ã®é,æšžçš,,ãf%ãfãffãf—æ©Yèf½ã®è©³ç°ã«ãªã,,ã|ã¬ã€<http://www>

# ACL (ACL)

ACL (ACL)

- icmp any any echo
- icmp any any information-request
- icmp any any timestamp-request
- tcp any any eq 465
- 103 any any
- 113 any any
- ip any any

Internet Control Message Protocol (ICMP)

Protocol Independent Multicast (PIM)

Pragmatic General Multicast (PGM)

URL Rendezvous Directory (URD)

ACL

```
access-list 150 deny icmp any any echo
access-list 150 deny icmp any any information-request
access-list 150 deny icmp any any timestamp-request
access-list 150 deny icmp any any mask-request
access-list 150 deny tcp any any eq 465
access-list 150 deny 103 any any
access-list 150 deny 113 any any
access-list 150 permit ip any any
```

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

ACL

Cisco IOS XR

ACL

```
ipv4 access-list ios-xr-transit-acl
10 deny icmp any any echo
20 deny icmp any any information-request
30 deny icmp any any timestamp-request
```

```
40 deny icmp any any mask-request
50 deny tcp any any eq 465
60 deny 103 any any
70 deny 113 any any
80 permit ip any any
```

```
interface POS 0/2/0/
 ip4 access-group ios-xr-transit-acl ingress
```

### Cisco IOS

<http://www.cisco.com/en/US/docs>

### ACL

```
ACL deny icmp any any mask-request
ACL deny tcp any any eq 465
ACL deny 103 any any
ACL deny 113 any any
ACL permit ip any any
```

### Cisco IOS

```
access-list 150 deny icmp any INFRASTRUCTURE_ADDRESSES echo
access-list 150 deny icmp any INFRASTRUCTURE_ADDRESSES information-request
access-list 150 deny icmp any INFRASTRUCTURE_ADDRESSES timestamp-request
access-list 150 deny icmp any INFRASTRUCTURE_ADDRESSES mask-request
access-list 150 deny tcp any INFRASTRUCTURE_ADDRESSES eq 465
access-list 150 deny 103 any INFRASTRUCTURE_ADDRESSES
access-list 150 deny 113 any INFRASTRUCTURE_ADDRESSES
access-list 150 permit ip any any

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

### Cisco IOS XR

```
ipv4 access-list ios-xr-infrastructure-acl
10 deny icmp any INFRASTRUCTURE_ADDRESSES echo
20 deny icmp any INFRASTRUCTURE_ADDRESSES information-request
30 deny icmp any INFRASTRUCTURE_ADDRESSES timestamp-request
40 deny icmp any INFRASTRUCTURE_ADDRESSES mask-request
50 deny tcp any INFRASTRUCTURE_ADDRESSES eq 465
```

```
60 deny 103 any INFRASTRUCTURE_ADDRESSES
70 deny 113 any INFRASTRUCTURE_ADDRESSES
80 permit ip any any
```

```
interface POS 0/2/0/2
  ipv4 access-group ios-xr-infrastructure-acl ingress
```

## Protecting Your Core: Infrastructure Protection Access Control

Lists

Cisco IOS

XR <http://www.cisco.com/en/US/docs>

## ACL

Cisco

IOS 12.0(21)S2(12000(GSR)) 12.0(24)Si7500

ACL

ACL

12000, 7500, 10720 Receive ACL

ACL

IP "any"

IP

ACL

## GSR: Receive Access Control

Lists

ACL

```
access-list 101 deny icmp any any echo
access-list 101 deny icmp any any information-request
access-list 101 deny icmp any any timestamp-request
access-list 101 deny icmp any any mask-request
access-list 101 deny tcp any any eq 465
access-list 101 deny 103 any any
access-list 101 deny 113 any any
access-list 101 permit ip any any
!
ip receive access-list 101
```

ACL

IP  
IP

```
access-list 100 permit icmp any any echo
access-list 100 permit icmp any any information-request
access-list 100 permit icmp any any timestamp-request
access-list 100 permit icmp any any mask-request
access-list 100 permit tcp any any eq 465
access-list 100 permit 103 any any
access-list 100 permit 113 any any
access-list 100 deny ip any any
!
class-map match-all drop-options-class
  match access-group 100
!
!
policy-map drop-options-policy
  class drop-options-class
    drop
!
control-plane
  service-policy input drop-options-policy
```

Cisco IOS 12.0S 12.2S 12.2SX

```
policy-map drop-options-policy
  class drop-options-class
    police 32000 1500 1500 conform-action drop exceed-action drop
```

IP  
IP







<p>è©²â½“ã™ã, &lt; 12.0  ãf™ãf¼ã, ¹ã®ãfªãf¼ã,¹</p>	ãfªãf“ãf«ãf%o
12.0	è,,†â¼±æ€§ã,ã,Šã€,12.2(37)ä»¥é™ã«çš»è;ĈEã—ã ããã
12.0DA	è,,†â¼±æ€§ã,ã,Šã€12.2(10)DA5ä»¥é™ã«çš»è;ĈE
12.0DB	è,,†â¼±æ€§ã,ã,Šã€12.3(4)T13ä»¥é™ã«çš»è;ĈE
12.0DC	è,,†â¼±æ€§ã,ã,Šã€12.3(4)T13ä»¥é™ã«çš»è;ĈE
12.0S	12.0(27)S3
12.0SC	è,,†â¼±æ€§ã,ã,Šã€12.3(9a)BCä»¥é™ã«çš»è;ĈE
12.0SL	è,,†â¼±æ€§ã,ã,Šã€12.0(28)Sä»¥é™ã«çš»è;ĈE
12.0SP	è,,†â¼±æ€§ã,ã,Šã€12.0(28)Sä»¥é™ã«çš»è;ĈE
12.0ST	è,,†â¼±æ€§ã,ã,Šã€12.0(28)Sä»¥é™ã«çš»è;ĈE
12.0SX	12.0(25)SX11
12.0SY	
12.0SZ	
12.0T	è,,†â¼±æ€§ã,ã,Šã€,12.2(37)ä»¥é™ã«çš»è;ĈEã—ã ããã



12.0XM	è,,†â¼±æ€§ã,ã,Šã€,12.2(37)ä»¥é™ã«çš»è;ĈEä—ã ããã
12.0XN	è,,†â¼±æ€§ã,ã,Šã€,12.2(37)ä»¥é™ã«çš»è;ĈEä—ã ããã
12.0XQ	è,,†â¼±æ€§ã,ã,Šã€,12.2(37)ä»¥é™ã«çš»è;ĈEä—ã ããã
12.0XR	è,,†â¼±æ€§ã,ã,Šã€,12.2(37)ä»¥é™ã«çš»è;ĈEä—ã ããã
12.0XS	è,,†â¼±æ€§ã,ã,Šã€,12.1(23)Eä»¥é™ã«çš»è;ĈE
12.0XV	è,,†â¼±æ€§ã,ã,Šã€,12.2(37)ä»¥é™ã«çš»è;ĈEä—ã ããã
12.0XW	è,,†â¼±æ€§ã,ã,Šã€,12.0(5)WC15ä»¥é™ã«çš»è;ĈE
<b>è©²â½“ã™ã,&lt; 12.1 ãf™ãf¼ã,¹ã®ãfªãf¼ã,¹</b>	<b>ãfªãf“ãf«ãf%o</b>
12.1	è,,†â¼±æ€§ã,ã,Šã€,12.2(37)ä»¥é™ã«çš»è;ĈEä—ã ããã
12.1AA	è,,†â¼±æ€§ã,ã,Šã€,12.2(37)ä»¥é™ã«çš»è;ĈEä—ã ããã
12.1AX	è,,†â¼±æ€§i¼šc3750- MEä®â´â^ã€12.2(25)EYä»¥é™ã«çš»è;ĈEä—ã ããã
12.1AY	è,,†â¼±æ€§ã,ã,Šã€,12.1(22)EA8ã«çš»è;ĈE
12.1AZ	è,,†â¼±æ€§ã,ã,Šã€,12.1(22)EA8ã«çš»è;ĈE
12.1CX	è,,†â¼±æ€§ã,ã,Šã€,12.2(37)ä»¥é™ã«çš»è;ĈEä—ã ããã

12.1DA	è,,†â¼±æ€§ã,ã,Šã€ 12.2(10)DA5ä»¥é™ã«çš»è;€
12.1DB	è,,†â¼±æ€§ã,ã,Šã€ 12.3(4)T13ä»¥é™ã«çš»è;€
12.1DC	è,,†â¼±æ€§ã,ã,Šã€ 12.3(4)T13ä»¥é™ã«çš»è;€
12.1E	
12.1EA	12.1(22)EA8
12.1EB	
12.1EC	è,,†â¼±æ€§ã,ã,Šã€ 12.3(9a)BCä»¥é™ã«çš»è;€
12.1EO	12.1(19)EO6
	12.1(20)EO3
12.1EU	è,,†â¼±æ€§ã,ã,Šã€ 12.2(25)EWAä»¥é™ã«çš»è;€
12.1EV	è,,†â¼±æ€§ã,ã,Šã€,12.2(26)SV1ä»¥é™ã«çš»è;€ã—ã ãã
12.1EW	è,,†â¼±æ€§ã,ã,Šã€ 12.2(18)EW3ä»¥é™ã«çš»è;€
12.1EX	è,,†â¼±æ€§ã,ã,Šã€ 12.1(23)Eä»¥é™ã«çš»è;€
12.1EY	è,,†â¼±æ€§ã,ã,Šã€ 12.1(23)Eä»¥é™ã«çš»è;€
12.1EZ	è,,†â¼±æ€§ã,ã,Šã€ 12.1(23)Eä»¥é™ã«çš»è;€

12.1T	è,,†â¼±æ€§ã,ã,Šã€,12.2(37)ä»¥é™ã«çš»è;Ĉă—ã ããã
12.1XA	è,,†â¼±æ€§ã,ã,Šã€,12.2(37)ä»¥é™ã«çš»è;Ĉă—ã ããã
12.1XB	è,,†â¼±æ€§ã,ã,Šã€,12.2(37)ä»¥é™ã«çš»è;Ĉă—ã ããã
12.1XC	è,,†â¼±æ€§ã,ã,Šã€,12.2(37)ä»¥é™ã«çš»è;Ĉă—ã ããã
12.1XD	è,,†â¼±æ€§ã,ã,Šã€,12.2(37)ä»¥é™ã«çš»è;Ĉă—ã ããã
12.1XE	è,,†â¼±æ€§ã,ã,Šã€12.1(23)Eä»¥é™ã«çš»è;Ĉ
12.1XF	è,,†â¼±æ€§ã,ã,Šã€12.3(8)ä»¥é™ã«çš»è;Ĉ
12.1XG	è,,†â¼±æ€§ã,ã,Šã€12.3(8)ä»¥é™ã«çš»è;Ĉ
12.1XH	è,,†â¼±æ€§ã,ã,Šã€,12.2(37)ä»¥é™ã«çš»è;Ĉă—ã ããã
12.1XI	è,,†â¼±æ€§ã,ã,Šã€,12.2(37)ä»¥é™ã«çš»è;Ĉă—ã ããã
12.1XJ	è,,†â¼±æ€§ã,ã,Šã€12.3(8)ä»¥é™ã«çš»è;Ĉ
12.1XL	è,,†â¼±æ€§ã,ã,Šã€12.3(8)ä»¥é™ã«çš»è;Ĉ
12.1XM	è,,†â¼±æ€§ã,ã,Šã€12.3(8)ä»¥é™ã«çš»è;Ĉ
12.1XP	è,,†â¼±æ€§ã,ã,Šã€12.3(8)ä»¥é™ã«çš»è;Ĉ
12.1XQ	è,,†â¼±æ€§ã,ã,Šã€12.3(8)ä»¥é™ã«çš»è;Ĉ

12.1XR	è,,†â¼±æ€§ã,ã,Šã€ 12.3(8)ä»¥é™ã«çš»è;Ĉ
12.1XS	è,,†â¼±æ€§ã,ã,Šã€,12.2(37)ä»¥é™ã«çš»è;Ĉã—ã ããã
12.1XT	è,,†â¼±æ€§ã,ã,Šã€ 12.3(8)ä»¥é™ã«çš»è;Ĉ
12.1XU	è,,†â¼±æ€§ã,ã,Šã€ 12.3(8)ä»¥é™ã«çš»è;Ĉ
12.1XV	è,,†â¼±æ€§ã,ã,Šã€ 12.3(8)ä»¥é™ã«çš»è;Ĉ
12.1XW	è,,†â¼±æ€§ã,ã,Šã€,12.2(37)ä»¥é™ã«çš»è;Ĉã—ã ããã
12.1XX	è,,†â¼±æ€§ã,ã,Šã€,12.2(37)ä»¥é™ã«çš»è;Ĉã—ã ããã
12.1XY	è,,†â¼±æ€§ã,ã,Šã€,12.2(37)ä»¥é™ã«çš»è;Ĉã—ã ããã
12.1XZ	è,,†â¼±æ€§ã,ã,Šã€,12.2(37)ä»¥é™ã«çš»è;Ĉã—ã ããã
12.1YA	è,,†â¼±æ€§ã,ã,Šã€ 12.3(8)ä»¥é™ã«çš»è;Ĉ
12.1YB	è,,†â¼±æ€§ã,ã,Šã€ 12.3(8)ä»¥é™ã«çš»è;Ĉ
12.1YC	è,,†â¼±æ€§ã,ã,Šã€ 12.3(8)ä»¥é™ã«çš»è;Ĉ
12.1YD	è,,†â¼±æ€§ã,ã,Šã€ 12.3(8)ä»¥é™ã«çš»è;Ĉ
12.1YE	è,,†â¼±æ€§ã,ã,Šã€ 12.3(8)ä»¥é™ã«çš»è;Ĉ
12.1YF	è,,†â¼±æ€§ã,ã,Šã€ 12.3(8)ä»¥é™ã«çš»è;Ĉ





12.2DD	è,,†â¼±æ€§ã,ã,Šã€ 12.3(4)T13ä»¥é™ã«çš»è;€
12.2DX	è,,†â¼±æ€§ã,ã,Šã€ 12.3(4)T13ä»¥é™ã«çš»è;€
12.2EU	è,,†â¼±æ€§ã,ã,Šã€ 12.2(25)EWA5ä»¥é™ã«çš»è;€
12.2EW	12.2(18)EW3
	12.2(20)EW4
12.2EWA	12.2(20)EWA4
12.2EX	
12.2EY	ã™ã¹ã  ã®12.2EYãªãªãª¼ã,¹ã€ä:®æ£ã•ã,€ã  ã,,ã
12.2EZ	ã™ã¹ã  ã®12.2EZãªãªãª¼ã,¹ã€ä:®æ£ã•ã,€ã  ã,,ã
12.2FX	ã™ã¹ã  ã®12.2FXãªãªãª¼ã,¹ã€ä:®æ£ã•ã,€ã  ã,,ã
12.2FY	ã™ã¹ã  ã®12.2FYãªãªãª¼ã,¹ã€ä:®æ£ã•ã,€ã  ã,,ã
12.2FZ	ã™ã¹ã  ã®12.2FZãªãªãª¼ã,¹ã€ä:®æ£ã•ã,€ã  ã,,ã
12.2IXA	ã™ã¹ã  ã®12.2IXAãªãªãª¼ã,¹ã€ä:®æ£ã•ã,€ã  ã,,ã
12.2IXB	ã™ã¹ã  ã®12.2IXBãªãªãª¼ã,¹ã€ä:®æ£ã•ã,€ã  ã,,ã
12.2IXC	ã™ã¹ã  ã®12.2IXCãªãªãª¼ã,¹ã€ä:®æ£ã•ã,€ã  ã,,ã

12.2JA	è,,†â¼±æ€§ã,ã,Šã€12.3(8)JAä»¥é™ã«çš»è;Ĉã—ã ããã
12.2JK	è,,†â¼±æ€§ã,ã,Šã€12.4(4)Tä»¥é™ã«çš»è;Ĉ
12.2MB	è,,†â¼±æ€§ã,ã,Šã€12.2(25)SW1ä»¥é™ã«çš»è;Ĉ
12.2MC	12.2(15)MC2h
12.2S	
12.2SB	
12.2SBC	ã™ã¹ã ã®12.2SBCăfªăfªăf¼ã,¹ãĈä;®æfã•ã,Ĉã ã„ã
12.2SE	
12.2SEA	ã™ã¹ã ã®12.2SEAăfªăfªăf¼ã,¹ãĈä;®æfã•ã,Ĉã ã„ã
12.2SEB	ã™ã¹ã ã®12.2SEBăfªăfªăf¼ã,¹ãĈä;®æfã•ã,Ĉã ã„ã
12.2SEC	ã™ã¹ã ã®12.2SECăfªăfªăf¼ã,¹ãĈä;®æfã•ã,Ĉã ã„ã
12.2SED	ã™ã¹ã ã®12.2SEDăfªăfªăf¼ã,¹ãĈä;®æfã•ã,Ĉã ã„ã
12.2SEE	ã™ã¹ã ã®12.2SEEăfªăfªăf¼ã,¹ãĈä;®æfã•ã,Ĉã ã„ã
12.2SEF	ã™ã¹ã ã®12.2SEFăfªăfªăf¼ã,¹ãĈä;®æfã•ã,Ĉã ã„ã
12.2SEG	ã™ã¹ã ã®12.2SEGăfªăfªăf¼ã,¹ãĈä;®æfã•ã,Ĉã ã„ã

12.2SG	ã <sup>TM</sup> ã <sup>1</sup> ã  ã®12.2SGã <sup>f</sup> ã <sup>f</sup> ã <sup>f</sup> ¼ã,¹ã <sup>-</sup> ä¿@æfæ,^ã¿
12.2SGA	ã <sup>TM</sup> ã <sup>1</sup> ã  ã®12.2SGAã <sup>f</sup> ã <sup>f</sup> ã <sup>f</sup> ¼ã,¹ã¿Æä¿@æfã•ã,Æã  ã,,ã
12.2SO	12.2(18)SO7
12.2SRA	ã <sup>TM</sup> ã <sup>1</sup> ã  ã®12.2SRAã <sup>f</sup> ã <sup>f</sup> ã <sup>f</sup> ¼ã,¹ã¿Æä¿@æfã•ã,Æã  ã,,ã
12.2SRB	ã <sup>TM</sup> ã <sup>1</sup> ã  ã®12.2SRBã <sup>f</sup> ã <sup>f</sup> ã <sup>f</sup> ¼ã,¹ã¿Æä¿@æfã•ã,Æã  ã,,ã
12.2SU	è,,†ã¼±æ€§ã,ã,Šã€ 12.3(14)Tã»¥é <sup>TM</sup> ã«çš»è¿
12.2SV	
12.2SW	12.2(25)SW1
12.2SX	è,,†ã¼±æ€§ã,ã,Šã€ 12.2(17d)SXB11aã»¥é <sup>TM</sup> ã«çš»è¿
12.2SXA	è,,†ã¼±æ€§ã,ã,Šã€ 12.2(17d)SXB11aã»¥é <sup>TM</sup> ã«çš»è¿
12.2SXB	12.2(17d)SXB11a
12.2SXD	12.2(18)SXD7a
12.2SXE	ã <sup>TM</sup> ã <sup>1</sup> ã  ã®12.2SXEã <sup>f</sup> ã <sup>f</sup> ã <sup>f</sup> ¼ã,¹ã¿Æä¿@æfã•ã,Æã  ã,,ã
12.2SXF	ã <sup>TM</sup> ã <sup>1</sup> ã  ã®12.2SXFã <sup>f</sup> ã <sup>f</sup> ã <sup>f</sup> ¼ã,¹ã¿Æä¿@æfã•ã,Æã  ã,,ã
12.2SY	è,,†ã¼±æ€§ã,ã,Šã€ 12.2(17d)SXB11aã»¥é <sup>TM</sup> ã«çš»è¿

12.2SZ	è,,†â¼±æ€§ã,ã,Šã€ 12.2(25)Sä»¥é™ã«çš»è;Ĉ
12.2T	è,,†â¼±æ€§ã,ã,Šã€ 12.3(8)ä»¥é™ã«çš»è;Ĉ
12.2TPC	è,,†â¼±æ€§ã,ã,Šã€,TACã«ãŠã•ã„â^ã,ã»ããããã•ã
12.2XA	è,,†â¼±æ€§ã,ã,Šã€ 12.3(8)ä»¥é™ã«çš»è;Ĉ
12.2XB	è,,†â¼±æ€§ã,ã,Šã€ 12.3(8)ä»¥é™ã«çš»è;Ĉ
12.2XC	è,,†â¼±æ€§ã,ã,Šã€ 12.3(8)Tä»¥é™ã«çš»è;Ĉ
12.2XD	è,,†â¼±æ€§ã,ã,Šã€ 12.3(8)ä»¥é™ã«çš»è;Ĉ
12.2XE	è,,†â¼±æ€§ã,ã,Šã€ 12.3(8)ä»¥é™ã«çš»è;Ĉ
12.2XF	è,,†â¼±æ€§ã,ã,Šã€ 12.3(9a)BCä»¥é™ã«çš»è;Ĉ
12.2XG	è,,†â¼±æ€§ã,ã,Šã€ 12.3(8)ä»¥é™ã«çš»è;Ĉ
12.2XH	è,,†â¼±æ€§ã,ã,Šã€ 12.3(8)ä»¥é™ã«çš»è;Ĉ
12.2XI	è,,†â¼±æ€§ã,ã,Šã€ 12.3(8)ä»¥é™ã«çš»è;Ĉ
12.2XJ	è,,†â¼±æ€§ã,ã,Šã€ 12.3(8)ä»¥é™ã«çš»è;Ĉ
12.2XK	è,,†â¼±æ€§ã,ã,Šã€ 12.3(8)ä»¥é™ã«çš»è;Ĉ
12.2XL	è,,†â¼±æ€§ã,ã,Šã€ 12.3(8)ä»¥é™ã«çš»è;Ĉ

12.2XM	è,,†â¼±æ€§ã,ã,Šã€ 12.3(8)ä»¥é™ã«çš»è¡Œ
12.2XN	è,,†â¼±æ€§ã,ã,Šã€ 12.3(8)ä»¥é™ãã«çš»è¡Œ
12.2XQ	è,,†â¼±æ€§ã,ã,Šã€ 12.3(8)ä»¥é™ãã«çš»è¡Œ
12.2XR	è,,†â¼±æ€§ã,ã,Šã€ 12.3(8)ä»¥é™ãã«çš»è¡Œ
12.2XS	è,,†â¼±æ€§ã,ã,Šã€ 12.3(8)ä»¥é™ãã«çš»è¡Œ
12.2XT	è,,†â¼±æ€§ã,ã,Šã€ 12.3(8)ä»¥é™ãã«çš»è¡Œ
12.2XU	è,,†â¼±æ€§ã,ã,Šã€ 12.3(12)ä»¥é™ãã«çš»è¡Œ
12.2XV	è,,†â¼±æ€§ã,ã,Šã€ 12.3(8)ä»¥é™ãã«çš»è¡Œ
12.2XW	è,,†â¼±æ€§ã,ã,Šã€ 12.3(8)ä»¥é™ãã«çš»è¡Œ
12.2YA	è,,†â¼±æ€§ã,ã,Šã€ 12.3(8)ä»¥é™ãã«çš»è¡Œ
12.2YB	è,,†â¼±æ€§ã,ã,Šã€ 12.3(8)ä»¥é™ãã«çš»è¡Œ
12.2YC	è,,†â¼±æ€§ã,ã,Šã€ 12.3(8)ä»¥é™ãã«çš»è¡Œ
12.2YD	è,,†â¼±æ€§ã,ã,Šã€ 12.3(8)Tä»¥é™ãã«çš»è¡Œ
12.2YE	è,,†â¼±æ€§ã,ã,Šã€ 12.2(25)Sä»¥é™ãã«çš»è¡Œ
12.2YF	è,,†â¼±æ€§ã,ã,Šã€ 12.3(8)ä»¥é™ãã«çš»è¡Œ

12.2YG	è,,†â¼±æ€§ã,ã,Šã€ 12.3(8)ä»¥é™ã«çš»è;€
12.2YH	è,,†â¼±æ€§ã,ã,Šã€ 12.3(8)ä»¥é™ã«çš»è;€
12.2YJ	è,,†â¼±æ€§ã,ã,Šã€ 12.3(8)ä»¥é™ã«çš»è;€
12.2YK	è,,†â¼±æ€§ã,ã,Šã€ 12.3(8)Tä»¥é™ã«çš»è;€
12.2YL	è,,†â¼±æ€§ã,ã,Šã€ 12.3(8)Tä»¥é™ã«çš»è;€
12.2YM	è,,†â¼±æ€§ã,ã,Šã€ 12.3(8)Tä»¥é™ã«çš»è;€
12.2YN	è,,†â¼±æ€§ã,ã,Šã€ 12.3(8)Tä»¥é™ã«çš»è;€
12.2YO	è,,†â¼±æ€§ãªã—
12.2YP	è,,†â¼±æ€§ã,ã,Šã€ 12.3(8)ä»¥é™ã«çš»è;€
12.2YQ	è,,†â¼±æ€§ã,ã,Šã€ 12.3(4)T13ä»¥é™ã«çš»è;€
12.2YR	è,,†â¼±æ€§ã,ã,Šã€ 12.3(4)T13ä»¥é™ã«çš»è;€
12.2YS	è,,†â¼±æ€§ã,ã,Šã€ 12.3(8)Tä»¥é™ã«çš»è;€
12.2YT	è,,†â¼±æ€§ã,ã,Šã€ 12.3(8)ä»¥é™ã«çš»è;€
12.2YU	è,,†â¼±æ€§ã,ã,Šã€ 12.3(8)Tä»¥é™ã«çš»è;€
12.2YV	è,,†â¼±æ€§ã,ã,Šã€ 12.3(4)T13ä»¥é™ã«çš»è;€

12.2YW	è,,†â¼±æ€§ã,ã,Šă€ 12.3(8)Tă»¥é™ã«çš»è;Ĉ
12.2YX	è,,†â¼±æ€§ã,ã,Šă€ 12.3(14)Tă»¥é™ã«çš»è;Ĉ
12.2YY	è,,†â¼±æ€§ã,ã,Šă€ 12.3(4)T13ă»¥é™ã«çš»è;Ĉ
12.2YZ	è,,†â¼±æ€§ã,ã,Šă€ 12.2(25)Să»¥é™ã«çš»è;Ĉ
12.2ZA	è,,†â¼±æ€§ã,ã,Šă€ 12.2(17d)SXBaă»¥é™ã«çš»è;Ĉ
12.2ZB	è,,†â¼±æ€§ã,ã,Šă€ 12.3(8)Tă»¥é™ã«çš»è;Ĉ
12.2ZC	è,,†â¼±æ€§ã,ã,Šă€ 12.3(8)Tă»¥é™ã«çš»è;Ĉ
12.2ZD	è,,†â¼±æ€§ã,ã,Šă€,TACă«ãŠă•ã„ă^ã,ã>ããã•ã
12.2ZE	è,,†â¼±æ€§ã,ã,Šă€ 12.3(8)ă»¥é™ã«çš»è;Ĉ
12.2ZF	è,,†â¼±æ€§ã,ã,Šă€ 12.3(4)T13ă»¥é™ã«çš»è;Ĉ
12.2ZG	è,,†â¼±æ€§ã,ã,Šă€ 12.3(8)YG2ă»¥é™ã«çš»è;Ĉ
12.2ZH	è,,†â¼±æ€§ã,ã,Šă€,TACă«ãŠă•ã„ă^ã,ã>ããã•ã
12.2ZJ	è,,†â¼±æ€§ã,ã,Šă€ 12.3(8)Tă»¥é™ã«çš»è;Ĉ
12.2ZL	è,,†â¼±æ€§ã,ã,Šă€,TACă«ãŠă•ã„ă^ã,ã>ããã•ã
12.2ZN	è,,†â¼±æ€§ã,ã,Šă€ 12.3(4)T13ă»¥é™ã«çš»è;Ĉ



12.2ZP	è,,†â¼±æ€§ã,ã,Šã€12.3(8)XYä»¥é™ã«çš»è;Ĉă—ã ãã
è©²â½“ã™ã, < 12.3 ãf™ãf¼ã,¹ã®ãfªãfªãf¼ã,¹	ãªãf“ãf«ãf%o
12.3	
12.3B	è,,†â¼±æ€§ã,ã,Šã€12.3(8)T7ä»¥é™ãã«çš»è;Ĉ
12.3BC	
12.3BW	è,,†â¼±æ€§ã,ã,Šã€12.3(8)Tä»¥é™ãã«çš»è;Ĉ
12.3JA	
12.3JEA	ã™ã¹ã ã®12.3JEAãfªãfªãf¼ã,¹ãĈäç®æŁã•ã,Ĉă ã„ã
12.3JEB	ã™ã¹ã ã®12.3JEAãfªãfªãf¼ã,¹ãĈäç®æŁã•ã,Ĉă ã„ã
12.3JK	12.3(2)JK2
12.3JL	
12.3JX	12.3(7)JX6
12.3T	12.3(4)T13
	â^©ç”âèf½ãªãf—ãf©ãffãf^ãf•ã,©ãf¼ãfãé™ã®šã•ã,Ĉă
	12.4(1)ã»¥é™ãã«çš»è;Ĉă—ã ãããã•ã„ã€,

12.3TPC	12.3(4)TPC11b
12.3XA	12.3(2)XA6
12.3XB	è,,†â¼±æ€§ã,ã,Šã€ 12.3(8)Tä»¥é™ã«çš»è;Ē
12.3XC	è,,†â¼±æ€§ã,ã,Šã€,TACã«ãŠă•ã„ă^ã,ã»ããããã•ã
12.3XD	è,,†â¼±æ€§ã,ã,Šã€ 12.3(8)T7ä»¥é™ã«çš»è;Ē
12.3XE	è,,†â¼±æ€§ã,ã,Šã€,TACã«ãŠă•ã„ă^ã,ã»ããããã•ã
12.3XF	è,,†â¼±æ€§ã,ã,Šã€ 12.3(11)Tä»¥é™ã«çš»è;Ē
12.3XG	è,,†â¼±æ€§ã,ã,Šã€,TACã«ãŠă•ã„ă^ã,ã»ããããã•ã
12.3XH	è,,†â¼±æ€§ã,ã,Šã€ 12.3(11)Tä»¥é™ã«çš»è;Ē
12.3XI	12.3(7)XI8
12.3XJ	è,,†â¼±æ€§ã,ã,Šã€ 12.3(8)XWä»¥é™ã«çš»è;Ē
12.3XK	è,,†â¼±æ€§ã,ã,Šã€ 12.3(14)Tä»¥é™ã«çš»è;Ē
12.3XQ	è,,†â¼±æ€§ã,ã,Šã€ 12.4(1)ä»¥é™ã«çš»è;Ē
12.3XR	ã™ã¹ã ã®12.3XRăfăfăf¼ă,¹ăĒä;®æfă•ă,Ēă ã„ă
12.3XS	ã™ã¹ã ã®12.3XSăfăfăf¼ă,¹ă-ä;®æfă,ăă;ă

12.3XU	ã™ã¹ã  ã®12.3XUãfªãfªãf¼ã,¹ãĈEä¿®æ£ã•ã,ĈEã  ã,,ã
12.3XW	ã™ã¹ã  ã®12.3XWãfªãfªãf¼ã,¹ãĈEä¿®æ£ã•ã,ĈEã  ã,,ã
12.3XX	ã™ã¹ã  ã®12.3XXãfªãfªãf¼ã,¹ãĈEä¿®æ£ã•ã,ĈEã  ã,,ã
12.3XY	ã™ã¹ã  ã®12.3XRãfªãfªãf¼ã,¹ãĈEä¿®æ£ã•ã,ĈEã  ã,,ã
12.3YA	ã™ã¹ã  ã®12.3YAãfªãfªãf¼ã,¹ãĈEä¿®æ£ã•ã,ĈEã  ã,,ã
12.3YD	ã™ã¹ã  ã®12.3YDãfªãfªãf¼ã,¹ãĈEä¿®æ£ã•ã,ĈEã  ã,,ã
12.3YF	ã™ã¹ã  ã®12.3YFãfªãfªãf¼ã,¹ãĈEä¿®æ£ã•ã,ĈEã  ã,,ã
12.3YG	ã™ã¹ã  ã®12.3YGãfªãfªãf¼ã,¹ãĈEä¿®æ£ã•ã,ĈEã  ã,,ã
12.3YH	ã™ã¹ã  ã®12.3YHãfªãfªãf¼ã,¹ãĈEä¿®æ£ã•ã,ĈEã  ã,,ã
12.3YI	ã™ã¹ã  ã®12.3YIãfªãfªãf¼ã,¹ãĈEä¿®æ£ã•ã,ĈEã  ã,,ã
12.3YJ	ã™ã¹ã  ã®12.3YJãfªãfªãf¼ã,¹ãĈEä¿®æ£ã•ã,ĈEã  ã,,ã
12.3YK	ã™ã¹ã  ã®12.3YKãfªãfªãf¼ã,¹ãĈEä¿®æ£ã•ã,ĈEã  ã,,ã
12.3YM	ã™ã¹ã  ã®12.3YMãfªãfªãf¼ã,¹ãĈEä¿®æ£ã•ã,ĈEã  ã,,ã
12.3YQ	ã™ã¹ã  ã®12.3YQãfªãfªãf¼ã,¹ãĈEä¿®æ£ã•ã,ĈEã  ã,,ã
12.3YS	ã™ã¹ã  ã®12.3YSãfªãfªãf¼ã,¹ãĈEä¿®æ£ã•ã,ĈEã  ã,,ã





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## ā^©ç””è!ç´,,

æœ-ā, çāf%āfā, mā, ¶āfāā ç,, jâç è ¼ā @ā,, ā @ā ā -ā | ā "æ ä¼ā -ā | ā Šā, Šā  
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## 翻訳について

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