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applying to a line3
16127: Section: arp>0ARP (Address Resolution Protocol):SMDS, enabling?
arp commandHauthentication (L2TP) commandI02a authentication (L2TP)0
R53833: TC_TableCap: Table5 Compatibility Matrix for L2TPv3 Authentication
MethodsTauto-route-target commandU33SRBa auto-route-target X13a
backup active interfaceYbackup active interface command_(11a backup delay
(L2VPN local switching)`++33SRBa backup delay (L2VPN local switching)a(11a
backup delay (L2VPN local switching)^11a backup peerc33SRBa backup
peerh
bfe commandi
%89340: CRC_CmdRefCommand: bridge-vlanjbridge-domain commandkbridge-
domain commandn7PVST and PVST+ interoperability:ignore-bpdu-pid
keywordpDPVST and PVST+ interoperability:pvst-tlv keyword; pvst-tlv keyword;
w1PVST and PVST+ interoperability:L2PT topologies; y(bridge-domain
(service instance) commandz%SRDb bridge-domain (service instance)€
'connect (L2VPN local switching) command++bump (Frame Relay VC-bundle-
member) command€
&49147: CRC_CmdRefCommand: cell-packing€11a cell-
packing€33SRb€11a cell-packing€cell-packing command€
class command€ 13b class€
.20994: Section: class (map-list configuration)€class (map-list)
command€1Frame Relay:map class:routing protocols supported€Frame
Relay:SVC support€
'17296: Section: clear frame-relay-inarp€-cInverse ARP (Inverse Address
Resolution Protocol):Frame Relay:clearing maps;Frame Relay:Inverse ARP€clear
frame-relay-inarp command€"clear l2tun counters command€&(clear l2tun
counters tunnel l2tp command€*clear vpdn tunnel pppoe command€-
.22670: Section: clear x25€clear x25 command€2
.32549: Section: clear xot€3€clear xot command;XOT (X.25 over
TCP):clearing/terminating;SVCs (switched virtual circuits): clearing XOT;PVC
(permanent virtual circuit):X.25:resetting XOT€7
.355990: CRC_CmdRefCommand: clp-bit (FRF.5 and FRF.8)€80clp-bit
command;ATM:CLP field, setting for FRF.5€<
.30866: Section: cmns enable€=cmns enable command€>/CMNS (Connection
Mode Network Service):enabling€?LCMNS (Connection Mode Network Service):local
X.25 routing on nonserial media€Bconnect (Frame Relay) command€C
/87090: CRC_CmdRefCommand: connect (Frame Relay)€D15b connect (Frame
Relay)€G-Frame Relay:switching:switched PVCs, creating€I
.32777: CRC_CmdRefCommand: connect (FRF.5)€Jconnect (FRF.5)
command€K02b connect (FRF.5)€L:Frame Relay:FRF.5 Network
Interworking:connections, making€P
*40729: CRC_CmdRefCommand: connect (FR/ATM)€QRconnect (FRF.8) command;Frame
Relay:FRF.8 Service Interworking:connections, making€
#11a connect (L2VPN local switching)€

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member) X ,Frame Relay:PVC bundles:bumping, configuring | FBF:Blacker
Emergency Mode:entering;BFE:Blacker Emergency Mode:leaving [Blacker Emergency
Mode:entering l BBlacker Emergency Mode:address translation;BFE:address
translation m -Blacker Emergency Mode:leaving p
.67915: CRC_CmdRefCommand: encapsulation l2tpv3 t class-map type waas x
clear waas |
cpu-threshold
37695: Section: aps group aps group command aps group command
collect waas command
180666: BL_BlockLabel: Cisco CMTS Routers: Example

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+R53833: TC_TableCap: Table5 Compatibility Matrix for L2TPv3 Authentication
MethodsB


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RevisedDateMonth day, year

switch/routerCatalyst6500 series switchCisco IOS ReleaseCisco IOS Release

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v v p ` # Examples p © €) p a € p « p - € p - €
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p ã p Æ ò ó u ò õ ò ÷ v v ò ù v v ò ù v
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Commands Ó l Ó m v Ó n B Ó o B Ó p € Ó q B Ó r
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Command
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j€ql€vqmqy€Syntax
DescriptionqnDefaultsqovqp
Command
Modesqqvvqtuqvquqxvqzqvq|vvq~v
q€vq, vq,,vq†vq‡tvCommand
Historyq^"Usage Guidelinesq%€v€qŠ€vvq<€vvqŒv€-
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q~€%q™qš€%q>qæ€€%q
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rv4€#vExamplesrv5v€
rv6rv7rv8rv9rv:r:rv;rv<rv
rv=rv>vvrv?rv@rvArBrvCrv
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Description Defaults ?r € v œ v ð

Command

Modes $\tilde{0}$ $\tilde{v}$ $\tilde{0}_1$ $\tilde{u}$ $\tilde{f}$ $\tilde{u}$ $\tilde{y}$ $\tilde{v}$ $\tilde{s}$ $\tilde{v}$ $\tilde{c}$ $\tilde{v}$ $\tilde{\ll}$ $\tilde{v}$
 $\tilde{-}$ $\tilde{v}$ $\tilde{-}$ $\tilde{v}$ $\tilde{\pm}$ $\tilde{v}$ $\tilde{^3}$ $\tilde{v}$ $\tilde{\mu}$ $\tilde{v}$ $\tilde{\cdot}$ $\tilde{v}$ $\tilde{^1}$ $\tilde{v}$

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    00000000: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00  Command History
    00000010: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00  "Usage

```

Guidelines: À, Á, Â, Ã, Ä, Å, Æ, Ç, È, É, Ê, Ë, Ì, Í, Î, Ï, Ð, Ñ, Ò, Ó, Ô, Õ, Ö, ×, Ø, Ù, Ú, Û, Ü, Ý, Þ, ß, à, á, â, ã, ä, å, €
 Examples: À, Á, Â, Ã, Ä, Å, Æ, Ç, È, É, Ê, Ë, Ì, Í, Î, Ï, Ð, Ñ, Ò, Ó, Ô, Õ, Ö, ×, Ø, Ù, Ú, Û, Ü, Ý, Þ, ß, à, á, â, ã, ä, å, €

$$s(\epsilon v s^* \epsilon)$$

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Command
ModesAsDusFusHvJsLvNs
vPsRvTsVvswtCommand
HistorysX"Usage
GuidelinesYv[##Examples\€v]€vv^s_
s`sa sb€vscsdsg€u si€
u sk€smvso€sqv sr4Related
Commands ssvÃôvvÉsÄ

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v Syntax Description v
Command
Modes v -
" $ % t Command
History & # Examples ' v ( , + -
 / 1 3 5 6 4 Related
Commands 7 v sß€ sa€ v sá€ B sæ v
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Command Modes t v t u t u t v t
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Usage Guidelines
v

#Examples t v t t t t t v t t t t u
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4 Related
Commands t . v v t V t W t X B t [t] v
t _ t v t a v t b y Syntax Description t c
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History t to " Usage
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Commands t ± t ² t ³ t ? t ´ t y Syntax
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Modes t . v t ° u t ¼ u t ¾ v t À v t Â v t Ä v
t Æ v t È v t É t Command History t Ê " Usage
Guidelines t Ë t Ì # Examples t Í v t Î t Ñ u t Ó
u t Õ t × v t Ø 4 Related
Commands t % E v t ô t ö t ù t ú v t ý t
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Guidelinesu"€vv#vvu$€vv%vv&€>Examplesu
'vv(u)vv*u+vvu, vv-u-
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vvu:vvv<vv>vv@vvBvvDvvFvv
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CommandsLuLvMvvvruse€vvute€vw€vv
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Modesu€vvufuu...uu‡vv%vv<vvuvv
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ed
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vvvvvvvvvv4 Related Commandsvv
vvv4vvv7€vvv8€vvv9€vvv:yy Syntax
Descriptionvv;vv<vv Defaultsvv=vv>
Command
Modesvv?vBvuVDFvHVJVLV
vNvvvPvvvQvt Command HistoryvRv"" Usage
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vu€vvv^€vvv`vvvva4 Related
Commandsvbvvvcvvvæ€vvvf€vvv„€vvv...€vv
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Syntax
Description Defaults w-v
Command Modes w-v
w"u w\$ u w& v w(v w* v w, v w.
w0 v w2 v w4 v w6 v w8 v w9 t Command
History w: " Usage
Guidelines w; € v w< € v v w= € v v w> # Examples w? € v
w@ € wA € wB € wC € wD € wE € wF €
wG € wH € wI € wJ €
wK € v wL € wM € wN €
wO € wP € wQ € wR € wS € wT €
wU € wV € wW € wX € wY €
wZ € w[€ w^ u w` u wb wd v wf
wh v wj wlv wn wp v wr wt v
wv wx v wy 4 Related
Commands wz vv w- € w- € v w® € w- € w² €

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$\square\square\square\square\square w, \square\square v\square\square\square\square\square w^\circ \in \square\square$

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	wǎ	v		wæ		wè	v	wé	y	Syntax		
Description	wē		Defaults	wě	v	wì						
Command Modes	wí	v-										
	wđ	u	wò	u	wô	v	wö	v	wø	v		
	wú	v	wü	v								
	wþ	v	wß	t	Command History	wà	"	Usage				
Guidelines	wá	v	wâ	vv	wã	€5	Examples	wä	v	wå		
	wæ		wç		wè		wé		wê		wî	u
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Note Syntax Description F Command
Default
Command Modes
v ! v # v % v ' v) v + v -
v / v 1 v 3 v 5 v 7 v 9 v ; v
v = v ? v @

Command

History **ÔA** # Examples **ÔC** v **ÔD**, **ÔE**, **ôc** **ôd** **ôe** | **ôf** **ôg** **ôh** **ôi** **ôj** **ôk** **ôl** **ôæ**, **ô€** v **ô€** **B** **ô€** **B** **ôF**, **ôG**, **ôH**, **ôI**, **ôJ**, **±æ** v **±ž** v **ô** v **ô** u **ô** ' **ô** " v **ô** -

v **ô** ~ v **ôš** v **ôæ** v **ôž** v **ô** v **ô¢** v **ô£** t
Command History **ô** " Usage

Guidelines **ô¥** v **ô!** v **ôš** v **ô** " ' Note **ô©** # Examples **ô^a** v **ô«**, **ô¬**, **ô-**, **ô®**, **ô**, **ô°**, **ô±**, **ô²** v **ô³**, **ô´**, **ôµ** (**ô¶** (**ô¹** u **ô»** u **ôV** **ô€** / **ôX** **ô€** v **ôg** 4 v Related Commands **±ÿ** y Syntax

Description **±** Defaults **±;** v **±¢**

Command

Modes **±£** v **±!** u **±** " u **±^a** v **±¬** v **±®** v **±°** v **±±** t Command

History **±²** # Examples **±³** v **±´** **ô@** **±·** **ô** u **±¹** **ô** u **±¼** **ô** v **±À** v **±Ä** **ô** v **±Ç** v **±Ï** v **±Î** v **±İ** 4 Related

Commands **æ€** v **æ€** **B** **æ€** **æ** v **æ€** **æ-** v **æ!** **æ#** v **æ%€** **æ'** v **æ)** **æ+** v **æ,** y Syntax Description **æ-**

Command

Modes **æ.** v **æ1** u **æ3** u **æ5** v **æ7** v **æ9** v **æ;** v **æ<** t Command

History **æ=** # Examples **æ>** | **æ?** **æB** u **æD** u **æF** **æH** v **æJ** **æL** v **Ã** **æM** 4 Related

Commands **æN** v **Ã** v **Ç**

ÁY **B** **ÁZ** **B** **Á]** **Á_** **Á`** Note **Áa** y Syn
tax Description **Áb** **F** Command Default **Ác** v **Ád**

Command

Modes **Áe** v **Áh** **Áj** **Ál** **Án** **Áo** t Command

History **Áp** " Usage

Guidelines **Áq** v **Ár** # Examples **Ás** v **Át**, **Áu**, **Áv**, **Áw**, **Áz** **Á|** **Á~** **Á€** **Á,**, **Á†** **Á^** **Á%** 4 Related Commands **ôi** **Ç** v **Ç**

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Description#####ä@#####F#####Command Default#####ä-#####vv#####ä°#####
Command
Modes#####ä+#####v#####ä´#####u#####ä¶#####u#####ä,#####v#####ä°#####v#####ä»#####t#####Command
History#####ä%#####"#####Usage
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4#####Related Commands#####î#####î#####y#####Syntax Description#####î#####F#####Command
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Commands#####ôn#####€,#####ôo#####v#####ôp#####ôq#####ôr#####ôs#####ôt#####
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Commands#####ô#####v#####ôç#####,#####ôè#####,#####ôé#####,#####ôê#####,#####ôî€#####u#####ôî
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†aa%ja`access-list-number

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TMTM ÂĐ //

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this anchored frame for illustrations that align with text.

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'…UT-US¢¢",l¢¢À¢¢¢¢ ¢¢This is Ex1¢¢ í¢_¢¢ ¢¢Example1 with first-level
arrow indicator graphic in an anchored frame. Use ¢(UQ¢¢¢¢]this para. tag for
all ¢¢ ¢¢new¢¢ ¢¢ Example text. Use non-breaking space characters for
the ¢¢;UP¢¢¢D

indentations.



UP

'",iÀ This is Ex2 í_ íExample2 with second-level arrow indicator graphic in an anchored frame. (Use this para. tag only for íexisting Example2 text that has been converted í, or for *D-numbered list or step sublist Examples í.


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(\d
'',"aÀ    iThis is Ex3    í_    iExample3 with third-level arrow
indicator graphic in an anchored \(\Mframe. Use this para. tag only for 
    iexisting Example3 text that has been \*D<converted    i, or for 
    inumbered sublist Examples    i.
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TM TM Á£...ÀWÿî... , R.....'...UT...UT...", v...À..... îThis is
ExW1_ExampleWide1 with first-level arrow indicator graphic in an anchored frame.
Use this para. tag (UR...Dafor all înew î wide Example text. Use
non-breaking space characters for the indentations.

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"ÿü", s...À..... îThis is ExW2_ExampleWide2 with second-level arrow
indicator graphic in an anchored frame. Use this para. (DKtag only for î
existing ExampleWide2 text that has been converted î.

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'", l...À@..... îThis is ExW3_ExampleWide3 with third-level arrow indicator
graphic in an anchored frame. Use this (DQpara. tag only for î
existing ExampleWide3 text that has been converted î.

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€=€¥^f(...ÿè,,TIFF<u><u><u><u><u><c>i<c>templates<c>Arrow4.tif0
001FRAMTIFFWIN3 €}ÄöäÄ¹/Á7Ää?ÿm,,WÄöäÄ¹/Á7Ää?ÿ?ÿ-
&W2†ªa`DAn integer that identifies the access list. Range is from 1 to
199.
€}ÄTÄÈoAu7K>?p,,WÄTÄÈoAu7K>?p?ÿ-& W3
†ªa`in
€}ÄöäÄÈoÁ7Ää>?p,,WÄöäÄÈoÁ7Ää>?p>?p-& 4†ªa`
JRestricts incoming connections between a particular access server and the
P.j@addresses in the access list.
€}ÄT¼^j?ÿm,,WÄT¼^j?ÿ?ÿ4'
W:†ªa`Release
€}ÄT¼^ÁD?ÿm,,WÄT¼^ÁD?ÿ?ÿ4'
W;†ªa`
Modification
€}ÄT¼^ÁD?ÿm,,WÄT¼^ÁD?ÿ?ÿ4'
W<†ªa`10.3
€}ÄT¼^ÁD?ÿm,,WÄT¼^ÁD?ÿ?ÿ4'
W=†ªa`This command was introduced.
€}ÄT¼^ÁD?ÿm,,WÄT¼^ÁD?ÿ?ÿ4'

W>†aa%ja`

12.2(33)SRA

€}ÀTMÁs<\ÁD□□□?ÿ□□□m□□□„w□□□□□ÀTMÁs<\ÁD□□□?ÿ□?ÿ□□4'□

W?†aa%ja`@This command was integrated into Cisco IOS Release 12.2(33)SRA.
€}À™™Á,|[jS?ým„WÀ™™Á,|[jS?ý?ý4'
W@†aa%ja`12.2SX
€}Ä™™Á,|[ÁDSS?ým„WÀ™™Á,|[ÁDSS?ýS?ý4'
A†aa%ja` IThis command is supported in the Cisco IOS Release 12.2SX train.
Support p•j©H in a specific 12.2SX release of this train depends on your
feature set, @!platform, and platform hardware.
€}À™™Á'É~j?ým+„W-À™™Á'É~j?ý?ý[2

WK9†aa%ja`Command
€}Àë™™™Â'É~ÁD???ÿmm-,,wÀë™™™Â'É~ÁD???ÿ?ÿ[2

WL9†aa%ja`

Description

€}À^{TMTM}Âi -j>?p^{mm}/^W- ^À^{TMTM}Âi -j>?p[?]ÿ[?][2^{WM}:†^a%j^a[?]`

access-list

€}À^{TMTM}Â; -Á□□>?p□□□m1□□„w"□□□À^{TMTM}Â; -Á□□>?p>?p□□[2□□□□N□†^aa%j^a□□□
NConfigures the access list mechanism for filtering frames by protocol type or
P•j©□□□@
vendor code.

À"Û/Á/õ^ £†;3□□□„)□ □□'□□□ÿÿ~„.□□ß&&□ □□□
□□□□€}À™™™Â¼I•j□?ÿ□□□m3□□„W #□□□À™™™Â¼I•j□?ÿ□?ÿ□□[2□□□W0:†ªªjª□□□`□x29 access-
list
€}À™™™Â¼I•ÁD□□□?ÿ□□□m5□□„W"□□□□À™™™Â¼I•ÁD□□□?ÿ□?ÿ□□[2□□□WP†ªªjª□□□`<Limits
access to the access server from certain X.25 hosts.

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haccess-class (X.25) À-

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lates<c>Arrow4.tif0001FRAMTIFFWIN3□□□□□□
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hÁÁapÁs group

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configure an incoming access class on virtual terminals, use the □□ Ê□□□À□□□
Ê□access-class□□ ß□ (X.25) command in line □'a@□□□@□configuration mode.
S□ “a”□□□`-access-class □□ Î□access-list-number □□ Ñ□in

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 „W.1À^{TMTM}Àÿ°íí„YW7†^aŠTMÄ`%No incoming access
 class is defined.

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ÀTMÁ)ž,Á°ïé"„w13ÀTMÁ)ž,Á°ïï„Y
w9†^aaŠÄ`Line configuration

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WB †^{aa} ŠTM Ä @h À '

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ÀTMÁ¼XÁ°ÀSié&„w58ÀTMÁ¼XÁ°ÀSiÀSi„Y
D†^aŠTMÄ PThe access list number is used for both incoming TCP access
and incoming packet -TMÄ@%assembler/disassembler (PAD) access.
ESTMÄ`uIn the case of TCP access, the access server uses the IP access list
defined with the ùaccess-list ß command.
F dFor incoming PAD connections, the same numbered X.29 access list is
referenced. If you only want to pÄTMÄkhave access restrictions on one of
the protocols, you can create an access list that permits all addresses @for
the other protocol.

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 fThe following example configures an incoming access class on virtual terminal
 line 4. For information [°]-TMÄ[°]on the [°]û[°]line vty[°]ß[°] command,
 see the publication [°]Î[°]Configuring the Route Processor for the Catalyst 8540
 and [°]
[°]@Using Flash Memory Cards[°]ß[°].
[°]I(...UT²Dk[°]`
 line vty 4
 QJ¼Di[°]`[°]access-class 4 in
[°]²ffQÂ
^{TMTM}Â[°]mS[°];[°]²ffQÂ
^{TMTM}Â[°]„Y?)i[°][°]ŠììÀRìí[°]

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ip-address

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>BÉÀØÀÛ/ÁV?ÿŽEWX†ªjª`!IP address of the remote router.
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smds-address

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```
>ÉGÀØÀèòÁV?ÿ?ÿŽE WZ†ªjª`j12-digit SMDS address in the
```

$$\text{dotted notation} \quad \hat{\mathbf{I}}_{nnnn} \quad \beta_{.} \hat{\mathbf{I}}_{nnnn} \quad \beta_{.} \hat{\mathbf{I}}_{nnnn} \quad \beta \quad (48)$$

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AdÃ€Bv€}ÀØÀùÁV?ÿmo
>GÀØÀùÁV?ÿ?ÿŽEw\†aa%ja`Enables ARP for SMDS.
€}ÀTMTMÁyü\j?ÿmw>KÀTMTMÁyü\j?ÿ?ÿŽ

Fwbt†aa%ja`Release
€}Àë™™™Áyü\ÁD??ÿmy>JLÀë™™™Áyü\ÁD??ÿ?ÿŽ

Fwctaaaja`
Modification
€}ÀÁ<[j?ym{>KMÀÁ<[j?y?yŽ

F -Wd†aaj`10.3
€}ÀëÁ%<[ÁD?ÿm}>LNÀëÁ%<[ÁD?ÿŽ

F-We†a%ja`This command was introduced.
€}À™™Á~|Zj?ÿm>M0À™™Á~|Zj?ÿ?ÿŽ

F□□Wf□†^a⊗j^a□□□`

12.2(33)SRA

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F Wg † a a j a ` @ This command was integrated into Cisco IOS Release 12.2(33)SRA.
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F Wh†^aaj`12.2SX

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```

F0 00i+^aa%ja IThis command is supported in the Cisco IOS Release 12.2SX
train. Support p.j@H in a specific 12.2SX release of this train depends on
your feature set, @!platform, and platform hardware.
€jA^TMTM^Aq >jj?ÿmm>U^TMTM^Aq >jj?ÿ?ÿÿŽG!WE9+^aa%ja`Command
€jAe^TMTM^Aq >AD^ÿ?ÿmm'>TV^Ae^TMTM^Aq >AD^ÿ?ÿ?ÿÿŽG!WE9+^aa%ja`

```

Description

€}À^{TMTM}Â€İšj>?p⁰⁰⁰⁰m“⁰⁰>UX⁰⁰⁰⁰À^{TMTM}Â€İšj>?p⁰⁰?ÿ⁰⁰⁰Ž⁰⁰G⁰⁰"⁰⁰W€⁰⁰:†^{a a%}j^a⁰⁰⁰⁰`⁰⁰smds enable-arp

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R⁰⁰⁰⁰⁰⁰€⁰⁰=€⁰⁰¥⁰⁰^f(...ÿè⁰⁰⁰⁰,⁰⁰⁰⁰⁰⁰TIFF⁰⁰,<u><u><u><u><u><u><c>i<c>templates<c>Arrow4.tif⁰⁰0001FRAMTIFFWIN3

⁰⁰⁰⁰⁰⁰⁰⁰€}À^{TMTM}Â€İšÁD⁰⁰>?p⁰⁰⁰⁰m•⁰⁰>VY⁰⁰⁰⁰À^{TMTM}Â€İšÁD⁰⁰>?p>?p⁰⁰⁰Ž⁰⁰G⁰⁰"⁰⁰€⁰⁰⁰†^{a a%}j^a⁰⁰⁰⁰

KEnables dynamic ARP. The multicast address for ARP must be set before this

P•j⁰⁰⁰⁰@⁰⁰command is issued.

€}À^{TMTM}Â>%~j>?p⁰⁰⁰⁰m—⁰⁰>XZ⁰⁰⁰⁰À^{TMTM}Â>%~j>?p⁰⁰?ÿ⁰⁰⁰Ž⁰⁰G⁰⁰#⁰⁰W€⁰⁰:†^{a a%}j^a⁰⁰⁰⁰`⁰⁰smds static-map

€}À^{TMTM}Â>%~ÁD⁰⁰>?p⁰⁰⁰⁰m^{TMTM}⁰⁰>Y⁰⁰⁰⁰À^{TMTM}Â>%~ÁD⁰⁰>?p>?p⁰⁰⁰Ž⁰⁰G⁰⁰#⁰⁰€⁰⁰⁰†^{a a%}j^a⁰⁰⁰⁰

AConfigures a static map between an individual SMDS address and a P•j⁰⁰⁰⁰@-higher-level protocol address.

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ÀÿÿpÁ°Àÿÿûé-;)]ÀÿÿpÁ°ÀÿÿûÀÿÿû=====É†aa†aa bTo
 allow more than one protect and working interface and Access Circuit Redundancy
 (ACR) group to 0'a@be supported on a router, use the É aps group
 ß command in interface configuration or controller @Rconfiguration
 mode. To remove a group, use the
 no ß form of this command.
 É 'a\$`laps group ß [ß Ñacr ß] ß Ìgroup-number
 CÉ:``>no ß ß Íaps group ß [ß Íacr ß] ß
 Ìgroup-number

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$\frac{2}{f} \frac{\partial f}{\partial x} - \frac{\partial^2 f}{\partial x^2} = \frac{1}{x} \left(\frac{\partial f}{\partial x} + \frac{\partial^2 f}{\partial x^2} \right) = \frac{1}{x} \frac{\partial}{\partial x} \left(x \frac{\partial f}{\partial x} \right)$

No groups exist.

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ᵀᵀᵀᵀᵀᵀŸ£Ÿ£=====W£"†ªª~M½`0 is a valid group number.

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\$Interface configuration (config-if) P-™Ä@-Controller configuration
(config-controller)

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 kUse the Æaps group Æ Æcommand to specify more than one working
 and protect interface on a routerÑfor 0-™Ä`example, working channel for
 group 0 and protect channel for group 1 on one router, and working @Gchannel
 for group 1 and protect channel for group 0 on another router.
 2³™Ä`fThe default group number is 0. The Æ Æaps group 0 Æ Æ command
 does not imply that no groups exist.
 3`_The Æ Æaps group Æ Æ command must be configured on both the
 protect and working interfaces.
 4`PUse the Æ Æacr Æ Æ keyword to configure an ACR working or
 protect interface.

[illegible]

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dThe following example shows how to configure two working/protect interface
pairs. Working interface 0-™Ä(3/0/0) is configured in group 10 (the
protect interface for this working interface is configured on another
@Brouter), and protect interface (2/0/1) is configured in group 20.
WÆ7(...UT²Dk` Router# ùconfigure terminal

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µøPÂga@ÀLlžžŒ000„¼0#lmo000µøPÂga@ÀLlžžŒµøPÂsbµøPÂsb00
CmdRefTopRule
µøPÂÉ%€¥RðžžŒ000„¼0#lnp000µøPÂÉ%€¥RðžžŒµøPÂÕ(çµøPÂÕ(ç00Caution
µøP\$ÇÀÔžžŒ000„¿0#loq000µøP\$ÇÀÔžžŒµøP`ÿ"µøP`ÿ"00Warning
µøPÁVÄ²°FžžŒ000„Å0#lpr000µøPÁVÄ²°FžžŒµøPÁ,câµøPÁ,câ0 Timesaver
µøPÁ'Ž°XžžŒ000„Å0#lqs000µøPÁ'Ž°XžžŒµøP«ÆBµøP«ÆB00Tip
µøPÀðèæ!úžžŒ000„Å0"lrt000µøPÀðèæ!úžžŒµøPà<µøPà<00Note1
µøPÁN@æ!úžžŒ000„Å0"lsu000µøPÁN@æ!úžžŒµøPÁ'íbµøPÁ'íb00Note2
µøPÁo00æ!úžžŒ000„Å0"ltv000µøPÁo00æ!úžžŒµøPÁz²"µøPÁz²"00Note3
µøPÁ=pà«ddžžŒ000„Å0#luw000µøPÁ=pà«ddžžŒµøPÁIžµøPÁIž00 TitleRule
µøPÁÁ×A·vÖžžŒ000„Æ0#lvx000µøPÁÁ×A·vÖžžŒµøPÁÍvâµøPÁÍvâ10Rule
µøPÁE°²¥ížžŒ000„Ç0"lwy000µøPÁE°²¥ížžŒµøPÁQOÂµøPÁQOÂ0 Note2Rule
µøPÁ~u²¥ížžŒ000„È0"lxz000µøPÁ~u²¥ížžŒµøPÁσ,µøPÁσ,00 Note3Rule
µøPÁé: <yèžžŒ000„È0#ly{000µøPÁé: <yèžžŒµøPÁÜBµøPÁÜB00StepRule
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300 dpi; other icons copied in at 600dpi, scaled 50%.

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12.0(23)S
€}ÀüÿÿÁh<^Á@fg?ÿm0,)€c€eÀüÿÿÁh<^Á@fg?ÿ?ÿ'J%W€%†aa%ja`This
command was introduced.
€}ÀüÿÿÁw|]l?ÿm0,)€d€fÀüÿÿÁw|]l?ÿ?ÿ'J&W€&†aa%ja` 12.3(2)T
€}ÀüÿÿÁw|]Á@fg?ÿm0,)€e€gÀüÿÿÁw|]Á@fg?ÿ?ÿ'J&W€'†aa%ja`=This
command was integrated into CiscoIOS Release 12.3(2)T.
€}ÀüÿÿÁ†¼\l?ÿmÜ,)€f€hÀüÿÿÁ†¼\l?ÿ?ÿ'J'W€(†aa%ja`
12.2(25)S
€}ÀüÿÿÁ†¼\Á@fg?ÿmÜ,)€g€iÀüÿÿÁ†¼\Á@fg?ÿ?ÿ'J'W€)†aa%ja`>This
command was integrated into CiscoIOS Release 12.2(25)S.
€}ÀüÿÿÁ•ü[l>?pmp,)€h€jÀüÿÿÁ•ü[l>?p?ÿ'J(W€*†aa%ja`

12.2(27)SBC

€}ÀüÿÿÁ•ü[Á@fg>?pà,)€iÀüÿÿÁ•ü[Á@fg>?p>?p'J(€+†^{aa}%j^a ?Support
for this command was integrated into Cisco IOS Release P•j©@

12.2(27)SBC.

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TMTM mē, H€o\$ÀwÿÿÂ

TMTM , kN)w€0- h<À0Compatibility Matrix for L2TPv3

Authentication Methods

€}ÀtÿóÀwÿÿÂ

TMTM mí, HÀtÿóÀwÿÿÂ

TMTM , kN)w€1- e

€}ÀáÀwÿÿÂ

TMTM mï, HÀáÀwÿÿÂ

TMTM , kN)w€2- e

€}ÁR?ýÀwÿÿÂ

TMTM mñ, HÁR?ýÀwÿÿÂ

TMTM , kN)w€3- e

€}À^{TMTM}ÀjÿÿÀPÿó"ýmó, H€k€pÀ^{TMTM}ÀjÿÿÀPÿó"ý"ý, kN*€4†^{aa}Š^{aa} PE1 p-
a©Authentication @

Configuration
€}À0™ÆÀjÿÿÀl□

“ýmõ, H€eqÀ™ÆjÿÿÀl

“ýæp, kN*€5†aa-a@\$\$\$PE2 Supporting Old Pç^“\$\$\$LAuthenticationAP
€~ÀTMTMÁ÷!ÁŽ€;~mø, H€p€rÀTMTMÁ÷!ÁŽ€;~Šj~, kP€W€6A...UT†öîdLAny PE
software that supports only the old CHAP-like authentication system.
€}Á>TMŠÀjÿÿÀq?ü“ýmú, H€q€sÁ>TMŠÀjÿÿÀq?ü“ýæp, kN*€7†aa-a@\$\$\$PE2
Supporting New Pç^“\$\$\$LAuthenticationAQ
€~ÀTMTMÁ#ÁŽÿ;“mý, H€t€vÀTMTMÁ#ÁŽÿ;“i“, kQ€8A...UT†öî\$wAny PE
software that supports only the new message digest authentication and integrity
checking authentication system, p’vibut does not understand the old CHAP-
like authentication system. This type of software may be implemented by other
@*vendors based on the latest L2TPv3 draft.
€}Á`Ü-ÀjÿÿÀoÀ“ým, H€s€uÁ`Ü-ÀjÿÿÀoÀ“ýæp, kN*€9†aa-a@\$\$\$PE2
Supporting Old and Pç^“\$\$\$LNew AuthenticationAR
€~ÀTMTMÁ#d«ÁŽ-!-n, H€t€vÀTMTMÁ#d«ÁŽ-!-“!-, kR€:A...UT†öî\$RAny PE
software that supports both the old CHAP-like authentication and the new message
digest authentication and P’vib@Yintegrity checking authentication system,
such as Cisco IOS 12.0(29)S or later releases.
€}ÀTMTMÁ“üÄPÿó;pbnn, H€u€wÀTMTMÁ“üÄPÿó;pbÿ, kN+€;†aaŠaa`None
€}ÄTMTMÁ“üÄl

i p n , H € v € x À Ò ¢ Ä “ ü À l

i p p y , k N + w € < † a a Š a a ` None
€ } Á > ™ š À " ü À q ? ü i p p n p p , H € w € y p p Á > ™ š À " ü À q ? ü i p i p p , k N + p p € = † a a Š a a ` None
Q € > > a @ p p ` New integrity check
€ } Á ¯ Û - À " ü À o À i p p n
p p , H € x € z p p Á ¯ Û - À " ü À o À i p i p p , k N + p p € ? † a a Š a a ` None
Q € @ > a @ p p ` New integrity check
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,H€y€{À™™À´ÿúÀPÿóÀJûæp,kN,€A†ªªŠªª Old P-ª©@authentication
 €}Àð™™À´ÿúÀl

ÀJûnn,H€z€|Àð™ÆÀ´ýúÀl

ÀJûÿ,KN,WEB†aaŠaa`Old authentication
€}Á>™ŠÀ´ÿúÀq?ùÀJûnn,H€{€}Á>™ŠÀ´ÿúÀq?ùÀJûÿ,KN,WE†aaŠaa`Ñ
€}Á`Û-À´ÿúÀoÀAJûnn,H€|€~Á`Û-À´ÿúÀoÀAJûAJû,KN,€D†aaŠaa`Old
authentication
€E:>ª@ &Old ß pauthentication ß and §ª@new
authentication
€F:,ª@ &Old ß pauthentication ß and RÀDª|@new integrity
check
€}À™™™ÀÿõÀPÿó-ÿnn,H€}€À™™™ÀÿõÀPÿó-ÿæp,KN-€G†aaŠaa New P-
ª@ª@authentication
€}ÀÒ™™ÀÿõÀl

-ýn, H€~À™ËÿöÀl

-ýý, kN-wEH†aaŠaa`Ñ
€}Á>™šÄÿððÀq?ü-ýnn, H€Á>™šÄÿððÀq?ü-ýý, kN-wEI†aaŠaa`New
authentication
€}Á`Û-ÄÿððÀoÀ-ýn-, HÁ`Û-ÄÿððÀoÀ-ý-ý, kN-€J†aaŠaa`New
authentication
€K>a© Old authentication and R:ša``@new ß pauthentication
€}À™™Á, ÿðÀPÿó;þnn!n, HÀ™™Á, ÿðÀPÿó;þæþ, kN.€L†aaŠaa

New integrity P-a©□□□@□check
€}Àð™ŒÁ,ÿòÀl□

i p n # , H À™ Á, ÿ Ò À l

i p y , kN . w M t aa Š aa ` None
€ } Á >™ Š Á , ÿ ò À q ? ü i p n % , H Á >™ Š Á , ÿ ò À q ? ü i p i p , kN . € N t aa Š aa ` None
Q € 0 > a @ ` New integrity check
€ } Á Ò - Á , ÿ ò À o À i p n (, H Á Ò - Á , ÿ ò À o À i p i p , kN . € P t aa Š aa ` None
Q € Q > a @ ` New integrity check
€ } Á Ò™™ Á Ò ð À P ÿ ó À [ú n + , H Á Ò™™ Á Ò ð À P ÿ ó À [ú æ p , kN / € R t aa Š aa

Old and new P-^a©□□□@□authentication
€}ÀÒ™ŒÁN□ðÀl□

À[únn-HÀ™ΕΑΝðÀl

À[úÿ,KN/WS†aaŠaa`Old authentication
€}Á>™ŠANðÀq?üÀ[únn/,H
 Á>™ŠANðÀq?üÀ[úÿ,KN/WS†aaŠaa`New authentication
€}Á`Ù-ÁNðÀoÀÀ[únn1,H
 Á`Ù-ÁNðÀoÀÀ[úÀ[ú,KN/€U†aaŠaa`Old authentication
€V>ª@`New authentication
€W:

Old and new $\square^a$ $\S$ $\square\square\square$ $\square$ authentication

$\square\epsilon X\grave{\text{A}}\text{I}^a\text{!}$ $\square\square\square$ Old authentication $\square\square$ β and $R\grave{\text{A}}\text{U}^a\pounds\square\square\square$ $\square$ new integrity check

$\epsilon\}\grave{\text{A}}\square^{\text{TMTM}}\acute{\text{A}}\text{C}\grave{\text{y}}\grave{\text{e}}\grave{\text{A}}\text{P}\acute{\text{y}}\acute{\text{o}}\grave{\text{A}}\text{J}\square\acute{\text{u}}\square\square\square\square 6\square\square, \text{H}\square\square$

$\square\square\square\grave{\text{A}}\square^{\text{TMTM}}\acute{\text{A}}\text{C}\grave{\text{y}}\grave{\text{e}}\grave{\text{A}}\text{P}\acute{\text{y}}\acute{\text{o}}\grave{\text{A}}\text{J}\square\acute{\text{u}}\text{'}\square\ddot{\text{u}}\square\square, \text{kN}\square\theta\square\square\epsilon^\wedge\square\text{†}^a\text{S}^a\square\square\square$ Old p^{-a} $\square\square\square\square\square\square\square$ authentication

$\square\square\square\square$ and new integrity $\square\square\square$ $\square$ check

$\epsilon\}\grave{\text{A}}\theta^{\text{TM}}\text{E}\acute{\text{A}}\text{C}\grave{\text{y}}\grave{\text{e}}\grave{\text{A}}\text{l}\square$

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ÀJûÿ,KNΘw€_†ªŠª`Old authentication
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0000ÁÛ-Á©ÿêÀoÀAJÛÀJÛû,KN0000€a†aašaa`0Old authentication
0€b:>a@0000 0Old authentication00  ß and 0$^`0000@new authentication
0€c:,a$0000 0Old authentication00  ß and RADa|0000@new integrity check
€}ÀÿÿÄR/0l?ÿ0000nF
,V0000000ÀÿÿÄR/0l?ÿ?ÿ0000:S1wEi†aa%ja0000`0Command
€}ÀÿÿÄR/0Á@fg?ÿ0000nH
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□□□□ÀûÿÿÀR/□Á@fg□?ÿ□?ÿ□□□: S□1□w€j□†^aa%j^a□□□`

Description

€}ÀüÿÿÀao l?ÿÿÿÿnJ, VÿÿÿÿÿÿÀüÿÿÀao l?ÿÿ?ÿÿÿÿ: S2W€k:†aa%ja`digest
€}ÀüÿÿÀao Á@fg?ÿÿÿÿnL, VÿÿÿÿÿÿÀüÿÿÀao Á@fg?ÿÿ?ÿÿÿÿ: S2W€l†aa%ja`EEnable
s L2TPv3 control channel authentication or integrity checking.

€}ÀüÿÿÀp lS?ÿÿÿÿnN

, VÿÿÿÿÿÿÀüÿÿÀp lS?ÿÿ?ÿÿÿÿ: S3W€m:†aa%ja`
l2tp-class

€}ÀüÿÿÀp Á@fgS?ÿÿÿÿnP

, VÿÿÿÿÿÿÀüÿÿÀp Á@fgS?ÿÿ?ÿÿÿÿ: S3€n†aa%ja LCreates a template of L2TP
control plane configuration settings that can be p•j@inherited by
different pseudowire classes and enters L2TP class @configuration mode.

€}ÀüÿÿÀ-ïl>?pÿÿÿÿnR, VÿÿÿÿÿÿÀüÿÿÀ-ïl>?p?ÿÿÿÿ: S4W€o:†aa%ja` password

€}Àm°³Á&=d¥ïÿÿÿÿ,,†k€UÿÿÿÿÿÀm°³Á&=d¥ïÿÿÿÿÿÿ€9Kwq†aaŠaaee

€}ÀüÿÿÀ-ïÁ@fg>?pÿÿÿÿnT, VÿÿÿÿÿÿÀüÿÿÀ-ïÁ@fg>?p>?pÿÿÿÿ: S4€p†aa%ja

BConfigures the password used by a PE router for CHAP-style L2TPv3

P•j@authentication.

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CH1_CellHead1

€}Á*2)Á&=dÁ€öö„ŠkÁ*2)Á&=dÁ€öö€9KWr†^{aa}Š^{aa}e

CH1_CellHead1

€}À^{°3}Á6½c¥ÌÏ^ÿ„€^ÿÿk^ÿÀ^{°3}Á6½c¥ÌÏ^ÿ€€9K^ÿWs

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€}À“†Á6½cÀ-^{aa}ÿ^ÿ„Ž^ÿÿk^ÿÀ“†Á6½cÀ-^{aa}ÿ^ÿ€9K^ÿwt†^{aa}Š^{aa}€€€€This is
B1_Body1

€}Á*2)Á6½cÁ€^ÿÿ^ÿ„^ÿÿk^ÿÁ*2)Á6½cÁ€^ÿÿ^ÿ€9K^ÿwu†^{aa}Š^{aa}€€€€Body1

€}À^{°3}ÁG=b¥ÌÏ^ÿ„'€^ÿÿk^ÿÀ^{°3}ÁG=b¥ÌÏ^ÿ€€€€9K^ÿwv

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€}À“†ÁG=bÀ-^{aa}ÿ^ÿ„"€^ÿÿk^ÿ-€€À“†ÁG=bÀ-^{aa}ÿ^ÿ€9K^ÿww†^{aa}Š^{aa}€€€€

€}Á*2)ÁG=bÁ€^ÿÿ^ÿ„-€^ÿÿk^ÿÁ*2)ÁG=bÁ€^ÿÿ^ÿ€9K^ÿwx†^{aa}Š^{aa}€€€€

€}À^{°3}ÁW½a¥ÌÏ^ÿ„~€^ÿÿk^ÿ-€€À^{°3}ÁW½a¥ÌÏ^ÿ€€€€9K^ÿwy

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€}À“†ÁW½aÀ-^{aa}ÿ^ÿ„š€^ÿÿk^ÿ!€€À“†ÁW½aÀ-^{aa}ÿ^ÿ€9K^ÿwz†^{aa}Š^{aa}€€€€

€}Á*2)ÁW½aÁ€^ÿÿ^ÿ„œ€^ÿÿk^ÿ€€"€€Á*2)ÁW½aÁ€^ÿÿ^ÿ€9K^ÿw{†^{aa}Š^{aa}€€€€

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TMTM €€„€€k^ÿÁ_~Á„=_Â

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CH1_CellHead1

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□89□UR□□□`:Router(config-if)# □□ Ù□ip address 10.7.7.6 255.255.255.0

□8:□□□`□Router(config-if)# □□ Ù□exit

□8;□□□`)Router(config)# □□ Ù□interface pos 3/0/0

□8<□□□`%Router(config-if)# □□ Ù□aps group 10

□8=□□□`&Router(config-if)# □□ Ù□aps working 1

□8>□□□`□Router(config-if)# □□ Ù□exit

□8?□□□`)Router(config)# □□ Ù□interface pos 2/0/1

□8@□□□`%Router(config-if)# □□ Ù□aps group 20

□8A□□□`/Router(config-if)# □□ Ù□aps protect 1 10.7.7.7

□8B□□□`□Router(config-if)# □□ Ù□end

□8C□□□`□

□8D□†^{aa}Ä~a'□□□ iOn the second router, protect interface (4/0/0) is configured in group 10, and working interface (5/0/0) 0ÄŠ^a'□□□□□eis configured in group 20 (the protect interface for this working interface is configured on another □□□@ router).

□8E(...UTÄ|U9□□□`,Router(config)# □□ Ù□interface ethernet 0/0

□8FÄ°U7□□□`:Router(config-if)# □□ Ù□ip address 10.7.7.7 255.255.255.0

□8G□□□`□Router(config-if)# □□ Ù□exit

□8H□□□`)Router(config)# □□ Ù□interface pos 4/0/0

□8I□□□`%Router(config-if)# □□ Ù□aps group 10

□8J□□□`/Router(config-if)# □□ Ù□aps protect 1 10.7.7.6

□8K□□□`□Router(config-if)# □□ Ù□exit

□8L□□□`)Router(config)# □□ Ù□interface pos 5/0/0

□8M□□□`%Router(config-if)# □□ Ù□aps group 20

□8N□□□`&Router(config-if)# □□ Ù□aps working 1

A8O□□□`□Router(config-if)# □□ Ù□end

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ide-Area Networking Commands
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TMTMÀÿÿ,,Y66 ŠìÀRìÍ

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Command Reference

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qTo enable the automatic generation of a route target (RT), use the `auto-`
`route-target` command in L2 VFI `'a@j` configuration mode. To remove
the automatically generated RTs, use the `no` form of this
command.
`auto-route-target`
`no auto-route-target`
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%%DocumentProcessColors: Black
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%%PageOrigin:12 12
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%FD36FFFD11F827FD26FF27FD10F827A8FD34FF27FD11F87DFD26FF7DFD11
%F852FD33FFA8FD12F8FD28FF27FD11F8A8FD32FF27FD11F87DFD28FF52FD
%11F827FD31FFA8FD12F8A8FD29FFFD12F87DFD30FFFD12F827FD2AFF27FD
%12F8A8FD2EFF52FD12F87DFD2AFF52FD12F852FD2DFFA8FD13F87DFD2AFF
%7DFD13F8A8FD2CFF52FD13F8A8FD2AFFA8FD13F827FD2BFFA8FD14F8A8FD
%2AFFA8FD14F87DFD2AFF27FD14F8FD2CFFFD14F827FD29FF52FD15F8FD2C
%FFFD15F87DFD28FF27FD15F8FD2CFFFD16F8FD27FF52FD16F8A8FD2AFFA8
%FD16F827FD25FFA8FD17F8A8FD2AFFA8FD17F8A8FD24FF27FD17F852FD2A
%FF7DFD17F827FD23FF7DFD18F852FD2AFF52FD18F8A8FD22FF27FD19F8FD
%2AFF27FD19F8FD21FF7DFD1AF8A8FD28FFA8FD1AF852FD1FFFA8FD1BF852
%FD28FF52FD1BF8A8FD1EFF52FD1CF8FD28FF27FD1BF852FD1DFF7DFD1DF8
%52FD26FF7DFD1DF8A8FD1CFF52FD1DF827A8FD25FFFD1EF827FD1BFF7DFD
%1FF852FD24FF52FD1FF87DFD1AFFFD21F8A8FD22FF7DFD20F827FD19FF52
%FD22F8A8FD20FFA8FD22F87DFD17FFA8FD24F8FD1FFFA827FD23F8FD17FF
%52FD25F8FD1DFFA827FD24F827FD15FFA8FD27F8A8FD1AFFA827FD26F8A8
%FD14FF27FD28F87DFD18FF52FD28FF27FD13FF7DFD2AF827A8FD14FFA827
%FD2AF87DFD11FFA8FD2DF827A8FD10FF7D27FD2DF8FD11FF7DFD2FF82752
%A8FD0AFF7D7D27FD2FF852FD10FFFD35F8FD0727FD34F8A8FD0EFF27FD70
%F852FD0DFF7DFD72F8A8FD0CFF27FD72F827FD0BFF7DFD74F852FD0AFFFD
%75F827FD09FF27FD76F852FD07FFA8FD78F8A8FD06FF27FD78F827FD05FF
%A8FD7AF87DFD04FFFD7BF827A8FFFF52FD7CF87DFFA827FD7DF8A852FD7E
%F852FD7CF87DFD7CF87DFD08F827FD7EF852FF7D7D275227522752275227
%52275227522752275227522752275227522752275227522752275227
%52275227522752275227522752275227522752275227522752275227
%52275227522752275227522752275227522752275227522752275227
%52275227522752275227522752275227522752275227522752275227
%%EndData
%%EndComments
%%BeginProlog
%%BeginResource: procset Adobe_level2_AI5 1.2 0
%%Title: (Adobe Illustrator (R) Version 5.0 Level 2 Emulation)
%%Version: 1.2 0
```

```

%%CreationDate: (04/10/93) ( )
%%Copyright: ((C) 1987-1996 Adobe Systems Incorporated All Rights Reserved)
userdict /Adobe_level2_AI5 26 dict dup begin
  put
  /packedarray where not
  {
    userdict begin
    /packedarray
    {
      array astore readonly
    } bind def
    /setpacking /pop load def
    /currentpacking false def
  end
  0
} if
pop
userdict /defaultpacking currentpacking put true setpacking
/initialize
{
  Adobe_level2_AI5 begin
} bind def
/terminate
{
  currentdict Adobe_level2_AI5 eq
  {
    end
  } if
} bind def
mark
/setcustomcolor where not
{
  /findcmykcustomcolor
  {
    (AI8_CMYK_CustomColor)
    6 packedarray
  } bind def
  /findrgbcustomcolor
  {
    (AI8_RGB_CustomColor)
    5 packedarray
  } bind def
  /setcustomcolor
  {
    exch
    aload pop dup
    (AI8_CMYK_CustomColor) eq
    {
      pop pop
      4
      {
        4 index mul
        4 1 roll
      } repeat
      5 -1 roll pop
      setcmykcolor
    }
    {
      dup (AI8_RGB_CustomColor) eq
      {
        pop pop

```

```

        3
        {
            1 exch sub
            3 index mul
            1 exch sub
            3 1 roll
        } repeat
        4 -1 roll pop
        setrgbcolor
    }
    {
        pop
        4
        {
            4 index mul 4 1 roll
        } repeat
        5 -1 roll pop
        setcmykcolor
    } ifelse
} ifelse
} def
} if
/setAIseparationgray
{
    false setoverprint
    0 setgray
    /setseparationgray where{
        pop setseparationgray
    }{
        /setcolorspace where{
            pop
            [/Separation (All) /DeviceCMYK {dup dup dup}]
setcolorspace
            1 exch sub setcolor
        }{
            setgray
        }ifelse
    }ifelse
} def

/gt38? mark {version cvr cvx exec} stopped {cleartomark true} {38 gt exch
pop} ifelse def
userdict /deviceDPI 72 0 matrix defaultmatrix dtransform dup mul exch dup
mul add sqrt put
userdict /level2?
systemdict /languagelevel known dup
{
    pop systemdict /languagelevel get 2 ge
} if
put
/level2ScreenFreq
{
    begin
        60
        HalftoneType 1 eq
        {
            pop Frequency
        } if
        HalftoneType 2 eq
        {

```



```

        pop GrayFrequency
    } if
    HalftoneType 5 eq
    {
        pop Default level2ScreenFreq
    } if
end
} bind def
userdict /currentScreenFreq
    level2? {currenthalftone level2ScreenFreq} {currentscreen pop pop} ifelse
put
level2? not
{
    /setcmykcolor where not
    {
        /setcmykcolor
        {
            exch .11 mul add exch .59 mul add exch .3 mul add
            1 exch sub setgray
        } def
    } if
    /currentcmykcolor where not
    {
        /currentcmykcolor
        {
            0 0 0 1 currentgray sub
        } def
    } if
    /setoverprint where not
    {
        /setoverprint /pop load def
    } if
    /selectfont where not
    {
        /selectfont
        {
            exch findfont exch
            dup type /arraytype eq
            {
                makefont
            }
            {
                scalefont
            } ifelse
            setfont
        } bind def
    } if
    /cshow where not
    {
        /cshow
        {
            [
                0 0 5 -1 roll aload pop
            ] cvx bind forall
        } bind def
    } if
} if
cleartomark
/anyColor?
{
    add add add 0 ne

```

```

    } bind def
    /testColor
    {
        gsave
        setcmykcolor currentcmykcolor
        grestore
    } bind def
    /testCMYKColorThrough
    {
        testColor anyColor?
    } bind def
    userdict /composite?
    1 0 0 0 testCMYKColorThrough
    0 1 0 0 testCMYKColorThrough
    0 0 1 0 testCMYKColorThrough
    0 0 0 1 testCMYKColorThrough
    and and and
    put
    composite? not
    {
        userdict begin
        gsave
        /cyan? 1 0 0 0 testCMYKColorThrough def
        /magenta? 0 1 0 0 testCMYKColorThrough def
        /yellow? 0 0 1 0 testCMYKColorThrough def
        /black? 0 0 0 1 testCMYKColorThrough def
        grestore
        /isCMYKSep? cyan? magenta? yellow? black? or or or def
        /customColor? isCMYKSep? not def
        end
    } if
end defaultpacking setpacking
%%EndResource
%%BeginResource: procset AGM_Gradient_Sep 1.0 0
%%Title: (AGM Gradient Procset)
%%Version: 1.0 0
%%CreationDate: (4/26/96) ( )
%%Copyright: ((C) 1987-1996 Adobe Systems Incorporated All Rights Reserved)
userdict /defaultpacking currentpacking put true setpacking
userdict /AGM_Gradient_Sep 5 dict dup begin put
/AGM_Gradient_Sep_private 100 dict def
/initialize{
    AGM_Gradient_Sep begin
    AGM_Gradient_Sep_private begin
    _compositeJob{
        initializeSinglePassSeps
    }{
        initializeMultiPassSeps
    }ifelse
    initializeSeps
    AGM_Gradient_private begin
        /_fillSD newSpotDict def
        /_rampSD newSpotDict def
        /_nCustomColorSD nd
    end
    AGM_Gradient_Sep_private
    {
        dup xcheck 1 index type /arraytype eq and
        {
            bind
        }if
    }

```

```

        pop pop
    }forall
    AGM_Gradient_Sep
    {
        dup xcheck 1 index type /arraytype eq and
        {
            bind
        }if
        pop pop
    }forall
end

currentdict readonly pop
end
}def
/terminate{
    currentdict AGM_Gradient_Sep eq{
        end
    }if
}def
AGM_Gradient_Sep_private begin
/initializeSeps{
    /currentoverprint { _of } def
    _noImage not _level2PS not and{
        /linealFill{
            currentoverprint{
                0 0 1 1 rectfill
            }{
                mySave
                8 setImageParms
                _color{
                    _nCustomColorSD begin
                        cyan magenta yellow black

                        _spotColor{
                            spot1/tintImage spot1/tintValue get 1
                            spot2/tintImage spot2/tintValue get 1
                        }if
                    end

                    4{
                        makeByte8 4 1 roll
                    }repeat
                    true 4 _nCustomColorSD ncolorimage
                }{
                    _nCustomColorSD/black get 1 exch sub makeByte8
                    _nCustomColorSD bwImage
                }ifelse
                myRestore
            }ifelse
        }def
    }if
    /_whiteBytes 1 makeByte8 pt
    /knockOut{
        _noImage _level2PS or currentoverprint or{
            gsave
            false setoverprint
            1 setgray
            0 0 1 1 rectfill

```

```

        grestore
    }{
        8 setImageParms _whiteBytes /_image load 5 execImage
    }ifelse
}def
/newSpotDict{
    11 dict dup begin
        /nSpots 2 def
        /spot1 7 dict def
        /spot2 7 dict def
    end
}def
/initSpotData
{
    begin
        /name nd
        /tintImage nd
        /tintValue nd
        /spot_C nd
        /spot_M nd
        /spot_Y nd
        /spot_K nd
    end
}def
/initSpotDict{
    begin
        /cyanInk nd
        /magentaInk nd
        /yellowInk nd
        /blackInk nd
        /cyan nd
        /magenta nd
        /yellow nd
        /black nd
        spot1 initSpotData
        spot2 initSpotData
    end
}def
/copySpotDict{
    /_dst xp
    begin
        cyanInk magentaInk yellowInk blackInk
        cyan magenta yellow black
        spot1 spot2
    end
    _dst begin
        /spot1 spot1 maxlength dict def
        /spot2 spot2 maxlength dict def
        spot2 copy pop
        spot1 copy pop
        /black xd
        /yellow xd
        /magenta xd
        /cyan xd
        /blackInk xd
        /yellowInk xd
        /magentaInk xd
        /cyanInk xd
    end
}def
/setCustomColor

```

```

{
    1 index /Black eq{
        6 1 roll 5 npop
        1 exch sub
        setgray
    }{
        6 1 roll _ccAry1 astore exch
        dup null eq{
            pop 0
        }if
        setcustomcolor
    }ifelse
}def
/setCStop{
    /_colorStyle exch pt

    _colorStyle 0 eq{
        0 0 0
        4 -1 roll
        1 exch sub
        _spotColor{
            /_colorStyle 3 pt
            /Black
            1 index
            1 exch sub
        }if
    }if
    _colorStyle 2 eq{
        3 npop
    }if
    _rampSD _fillSD copySpotDict

    _colorStyle 4 eq{
        pop
        9 2 roll 3 npop 6 -2 roll
    } if

    _colorStyle 3 eq _colorStyle 4 eq or{
        _fillSD begin
            /_spot1 spot1 pt
            /_spot2 spot2 pt
        end

        exch dup _spot1/name get eq{
            _spot1 _spot2
        }{
            _spot2 _spot1
        }ifelse
    }begin
        begin
            /name xd
            1 exch sub /tintValue xd
            4{
                tintValue mul 4 1 roll
            }repeat
            _spotColor not{
                /tintValue null def
            }if
        end
        /tintValue 0 def
    }

```

```

        end
    }if
    _fillSD nsetcustomcolor
}def
/renderCMYK{
    spot1/name get null eq
    spot2/name get null eq and
    dup not{
        pop
        spot1 spotConverted
    }if
    dup not{
        pop
        spot2 spotConverted
    }if
}def
/currentInk{
    true
    _inRipSep{
        currentcolorspace 0 get
        dup /DeviceGray eq
        1 index /DeviceCMYK eq or{
            pop
            currentcmykcolor add add add 0 eq{
                pop false
            }if
        }{
            /Separation eq{
                currentcolor 0 eq{
                    pop false
                }if
            }if
        }ifelse
    }{
        currentgray 1 eq{
            pop false
        }if
    }ifelse
}def
/currentInkN{
    _nCustomColorSD begin
        /_spot1 spot1 pt
        /_spot2 spot2 pt
        renderCMYK
    end
    {
        currentInk
    }{
        gsave
        _spot1 begin
            name null ne{
                spot_C spot_M spot_Y spot_K name tintValue
            }{
                currentInk
            }{
                false
            }ifelse
        end
        _spot2 begin
            name null ne{

```

```

                                spot_C spot_M spot_Y spot_K name tintValue
setCustomColor
                                currentInk
                                {{
                                false
                                }ifelse
                                end
                                grestore

                                or
                                } ifelse
}def
/fill_ /fill load def
/fillOvp{
    currentoverprint{
        _inRipSep{
            currentcolorspace 0 get
            dup /DeviceGray eq
            1 index /DeviceCMYK eq or{
                pop
                currentcmkcolor add add add 0 eq{
                    newpath
                }if
            }{
                /Separation eq{
                    currentcolor 0 eq{
                        newpath
                    }if
                }if
            }ifelse
        }{
            currentgray 1 eq{
                newpath
            }if
        }ifelse
    }if
    fill_
}def
/fill{
    _nCustomColorSD begin
        /_spot1 spot1 pt
        /_spot2 spot2 pt
        renderCMYK
    end

    {
        fillOvp
    }{
        _spot1 begin
            gsave
            name null ne{
                spot_C spot_M spot_Y spot_K name tintValue
setCustomColor
            }{
                1 setgray
            }ifelse
            fillOvp
            grestore
        end
        _spot2 begin
            name null ne{

```

```

                                gsave
                                true setoverprint
                                spot_C spot_M spot_Y spot_K name tintValue
setCustomColor
                                fillOvp
                                grestore
                                }if
                                end
                                newpath
                                }ifelse
}def
/expandSpot{
    _spotColor{
        /_len xp
        _rampSD begin
            spot1 begin
                tintImage null ne{
                    tintImage _len expandOne /tintImage xd
                }if
            end
            spot2 begin
                tintImage null ne{
                    tintImage _len expandOne /tintImage xd
                }if
            end
        end
    end
}{}
    pop
}ifelse
}def
/rampImage{
    currentoverprint{
        rectImage
    }{
        _enabledSmoothShade{
            fillRamp
        }{
            _color{
                _rampSD begin
                    /cyanInk _cyanData 0 ne def
                    /magentaInk _magentaData 0 ne def
                    /yellowInk _yellowData 0 ne def
                    /blackInk _blackData 0 ne def
                end
                _nSamples setImageParms
                _nSamples expandSpot
                _cyanData _magentaData _yellowData _blackData
_nSamples 4 expandColor
            }{
                _rampSD begin
                    /cyanInk false def
                    /magentaInk false def
                    /yellowInk false def
                    /blackInk true def
                end
                _nSamples setImageParms
                _blackData _rampSD bwImage
            }ifelse
        }ifelse
    }ifelse
}ifelse

```



```

    }ifelse
  }def
  /nsetcustomcolor where{
    pop
  }{
    /nsetcustomcolor
    {
      /_nCustomColorSD xp
      _nCustomColorSD begin
        4 copy
        /black xd
        /yellow xd
        /magenta xd
        /cyan xd
        4 copy
        0 ne /blackInk xd
        0 ne /yellowInk xd
        0 ne /magentaInk xd
        0 ne /cyanInk xd
      end
      setcmykcolor
    }def
  }ifelse
  /nsetcustomcolorend where{
    pop
  }{
    /nsetcustomcolorend
    {
      /_nCustomColorSD null pt
    }def
  }ifelse
}def
/initializeSinglePassSeps{
  /_decodeNorm      [0 1] pt
  /_decodeInvert    [1 0] pt
  /spotConverted
  {
    begin
      name null eq{
        false
      }{
        tintValue null eq tintImage null eq and{
          true
        }{
          _inDistiller{
            false
          }{
            false
            currentpagedevice/SeparationColorNames
            get{name eq or}forall
            not
          }ifelse
        }ifelse
      }ifelse
    end
  }def
  /dictImage
  {
    20 dict dup begin
      /Dict xd
      /Decode xd

```

```

        /DataSource xd
        /ImageMatrix xd
        /BitsPerComponent xd
        /Height xd
        /Width xd
        /ImageType 1 def
        Dict
    end
    /_image load 1 execImage
}def
/bwImage{
    begin
        gsave
        currentoverprint{
            blackInk{
                [/Separation /Black /DeviceGray{}] setcolorspace
                _decodeInvert dictImage
            }{
                5 npop
            }ifelse
        }{
            /DeviceGray setcolorspace
            _decodeNorm dictImage
        }ifelse
        grestore
    end
}def
/ncolorimage where{
    pop
}{
    /ncolorimage{
        begin
            renderCMYK{
                cyanInk
                magentaInk and
                yellowInk and
                blackInk and
                not
                currentoverprint
                and{
                    pop pop
                    gsave
                    cyanInk{
                        8 copy
                        [/Separation /Cyan /DeviceGray{}]
setcolorspace
                        3 npop
                        _decodeNorm dictImage
                    }if
                    magentaInk{
                        8 copy
                        [/Separation /Magenta /DeviceGray{}]
setcolorspace
                        4 -1 roll
                        3 npop
                        _decodeNorm dictImage
                    }if
                    yellowInk{
                        8 copy
                        [/Separation /Yellow /DeviceGray{}]
setcolorspace

```

```

4 -2 roll
3 npop
_decodeNorm dictImage
}if
blackInk{
4 -3 roll
[/Separation /Black /DeviceGray{}}]
setcolorspace

3 npop
_decodeNorm dictImage
}{
8 npop
}ifelse
grestore
}{
/_colorimage load 10 execImage
}ifelse
}{
6 npop
gsave
spot1 begin
name null ne tintImage null ne and{
[/Separation name /DeviceGray{}}]
setcolorspace

4 copy
tintImage
name /Black eq{
_decodeNorm
}{
_decodeInvert
}ifelse
dictImage
}{
1 setgray fill
}ifelse
end
spot2 begin
true setoverprint
name null ne tintImage null ne and{
[/Separation name /DeviceGray{}}]
setcolorspace

tintImage
name /Black eq{
_decodeNorm
}{
_decodeInvert
}ifelse
dictImage
}{
4 npop
1 setgray fill
}ifelse
end
grestore
}ifelse
end
}def
}ifelse
/getRampColorSpace{
/_renderCMYK _rampSD begin renderCMYK end pt

```

```

_renderCMYK not{
  _rampSD begin
    [/DeviceN
      [
        spot1 begin
          name null ne tintImage null ne and{
            name
          }if
        end
        spot2 begin
          name null ne tintImage null ne and{
            name
          }if
        end
      ]
      _inDistiller {
        /DeviceCMYK [
          spot1 begin
            name null ne tintImage null ne
            spot_C spot_M spot_Y
          }{
            0 0 0 0 0
          }ifelse
        end
        spot2 begin
          name null ne tintImage null ne
          spot_C spot_M spot_Y
        }{
          0 0 0 0 0
        }ifelse
      end
      5 1 roll 6 -2 roll add
      dup 1 eq {
        pop
        8 /index cvx 1 /exch cvx /sub
      }{
        2 eq {
          8 /index cvx 1 /exch cvx
        }
        10 1 /roll cvx
      }if
    }ifelse
    4 1 /roll cvx 5 -2 /roll cvx
    8 /index cvx /mul cvx /exch cvx 9
  /index cvx /mul cvx /add cvx 7 1 /roll cvx
    3 1 /roll cvx 4 -2 /roll cvx
    7 /index cvx /mul cvx /exch cvx 8
  /index cvx /mul cvx /add cvx 6 1 /roll cvx
    2 1 /roll cvx 3 -2 /roll cvx
    6 /index cvx /mul cvx /exch cvx 7
  /index cvx /mul cvx /add cvx 5 1 /roll cvx
    5 /index cvx /mul cvx /exch cvx 6
  /index cvx /mul cvx /add cvx 4 1 /roll cvx
    6 -2 /roll cvx /pop cvx /pop cvx
  /sub cvx
cvx

```

```

        ] cvx bind
    }{
        /DeviceCMYK {}
    }ifelse
] setcolorspace
end
/_nColorSpace currentcolorspace pt
}if

_nSamples 1 gt{
    /_ndx 0 pt
    [blendColor] cvx exec
}if
_renderCMYK{
    /_C0 [currentcolor] pt
    /_C0_Space currentcolorspace pt
}{
    /_C0 [
        _nCustomColorSD begin
            spot1 begin
                name null ne{
                    tintValue
                }if
            end
            spot2 begin
                name null ne{
                    tintValue
                }if
            end
        end
    ] pt
    /_C0_Space _nColorSpace pt
}ifelse

_nSamples 1 gt{
    /_ndx _nSamples 1 sub pt
    [blendColor] cvx exec
}if
_renderCMYK{
    /_C1 [currentcolor] pt
    /_C1_Space currentcolorspace pt
}{
    /_C1 [
        _nCustomColorSD begin
            spot1 begin
                name null ne{
                    tintValue
                }if
            end
            spot2 begin
                name null ne{
                    tintValue
                }if
            end
        end
    ] pt
    /_C1_Space _nColorSpace pt
}ifelse

/_rampColorSpace _C0_Space pt
_spotColor{

```

```

nsetcustomcolorend
    }if
  }def
}def
/initializeMultiPassSeps{
  /invertXfer{
    [
      {
        1 exch sub
      }/exec load systemdict /currenttransfer get exec /exec load
    ] cvx systemdict /settransfer get exec
  }def
  /ccThrough{
    gsave
    1 setCustomColor
    currentcmykcolor
    grestore
    add add add 0 ne
  }def
  /spotConverted
  {
    begin
      _isCMYKSep not{
        false
      }{
        name null eq{
          false
        }{
          tintValue null eq tintImage null eq and{
            true
          }{
            spot_C spot_M spot_Y spot_K name ccThrough
          }ifelse
        }ifelse
      }ifelse
    end
  }def
  /spotChannel
  {
    _isCMYKSep{
      pop false
    }{
      /_spotDict xp
      _spotDict/name get null eq{
        false
      }{
        _spotDict/spot_C get
        _spotDict/spot_M get
        _spotDict/spot_Y get
        _spotDict/spot_K get
        _spotDict/name get
        ccThrough
      }ifelse
    }ifelse
  }def
  /getChannelData
  {
    _isCMYKSep dup{
      pop renderCMYK
    }if
    {

```

```

        _blackPlate{
            4 1 roll 3 npop blackInk
        }{
            _yellowPlate{
                4 2 roll 3 npop yellowInk
            }{
                _magentaPlate{
                    4 3 roll 3 npop magentaInk
                }{
                    3 npop cyanInk
                }ifelse
            }ifelse
        }ifelse
    {
        true /nonZeroData
    }{
        true /zeroData
    }ifelse
}{
    4 npop
    spot1/name get null ne
    spot1 spotChannel and{
        spot1/tintImage get dup null ne{
            false /nonZeroData
        }{
            pop false /noData
        }ifelse
    }{
        spot2/name get null ne
        spot2 spotChannel and{
            spot2/tintImage get dup null ne{
                false /nonZeroData
            }{
                pop false /noData
            }ifelse
        }{
            false /noData
        }ifelse
    }ifelse
}ifelse
}def
/renderChannelData
{
    /_tmp xp
    _tmp /nonZeroData ne currentoverprint and{
        pop
        _tmp /zeroData eq{pop}if
        4 npop
    }{
        _tmp /nonZeroData eq{
            {
                invertXfer
            }if
            systemdict/image
            get 5 execImage
        }{
            pop
            _tmp /zeroData eq{pop}if
            4 npop
            knockOut
        }ifelse
    }
}

```

```

    }elseifelse
}def
/bwImage{
  begin
    gsave
    dup dup dup
    getChannelData
    exch pop false exch
    renderChannelData
    grestore
  end
}def
/ncolorimage{
  begin
    pop pop
    gsave
    spot2/name get null ne spot2 spotChannel and{
      true setoverprint
    }if
    getChannelData
    renderChannelData
    grestore
  end
}def
/getRampColorSpace{
  /_renderCMYK _rampSD begin renderCMYK end pt
  _nSamples 1 gt{
    /_ndx 0 pt
    [blendColor] cvx exec
  }if
  _renderCMYK{
    /_C0 [currentcolor] pt
    /_C0_Space currentcolorspace pt
  }{
    /_C0 [
      _nCustomColorSD begin
        0
        spot1 begin
          name null ne
          tintValue null ne and
          spot1 spotChannel and{
            pop tintValue
          }if
        end
        spot2 begin
          name null ne
          tintValue null ne and
          spot2 spotChannel and{
            pop tintValue
          }if
        end
        1 exch sub
      end
    ] pt
    /_C0_Space /DeviceGray pt
  }elseifelse
  _nSamples 1 gt{

```



```

        /_ndx _nSamples 1 sub pt
        [blendColor] cvx exec
    }if
    _renderCMYK{
        /_C1 [currentcolor] pt
        /_C1_Space currentcolorspace pt
    }{
        /_C1 [
            _nCustomColorSD begin
                0
                spot1 begin
                    name null ne
                    tintValue null ne and
                    spot1 spotChannel and{
                        pop tintValue
                    }if
                end
                spot2 begin
                    name null ne
                    tintValue null ne and
                    spot2 spotChannel and{
                        pop tintValue
                    }if
                end
                1 exch sub
            end
        ] pt
        /_C1_Space /DeviceGray pt
    }ifelse

    /_rampColorSpace _C0_Space pt
    _spotColor{
        nsetcustomcolorend
    }if
}def

}def
end
end
defaultpacking setpacking
%%EndResource
%%BeginResource: procset AGM_Gradient 1.0 0
%%Title: (AGM Gradient Procset)
%%Version: 1.0 0
%%CreationDate: (4/26/96) ( )
%%Copyright: ((C) 1987-1996 Adobe Systems Incorporated All Rights Reserved)
userdict /defaultpacking currentpacking put true setpacking
userdict /AGM_Gradient 20 dict dup begin put
/AGM_Gradient_private 201 dict def
/initialize
{
    AGM_Gradient begin
    AGM_Gradient_private begin
    initializeVars

    /bd systemdict/mark get def
    /ed

        _level2PS
        {
            (>>)
        }{

```

```

        (counttomark 2 idiv dup dict begin {def} repeat pop
currentdict end)
    } ifelse
    cvx def

    _level2PS{
        initializeLev2
    }{
        initializeLev1
    }ifelse

    queryDevice

    initializeRectFill
    initializeShading
    initializeOps
    _producingSeps{
        AGM_Gradient_Sep/initialize get exec
    }{
        initializeComposite
    }ifelse
    _illustrator{
        /f{}def
        /F{}def
        /s{}def
        /S{}def
        /b{}def
        /B{}def
    }if
    /image where{
        /image get /_image xd
    }if
    /colorimage where{
        /colorimage get /_colorimage xd
    }if
    AGM_Gradient_private
    {
        dup xcheck 1 index type /arraytype eq and
        {
            bind
        }if
        pop pop
    }forall
    AGM_Gradient
    {
        dup xcheck 1 index type /arraytype eq and
        {
            bind
        }if
        pop pop
    }forall
end

    currentdict readonly pop
end
}def
/initializeAI
{
    pop pop
    AGM_Gradient/AGM_Gradient_private get /_illustrator true put
    AGM_Gradient/initialize get exec

```

```

        AGM_Gradient begin
    }def
    /unload{
        systemdict/languagelevel known{
            systemdict/languagelevel get 2 ge{
                userdict/AGM_Gradient_Sep 2 copy known{
                    undef
                }{
                    pop pop
                }ifelse
                userdict/AGM_Gradient 2 copy known{
                    undef
                }{
                    pop pop
                }ifelse
            }if
        }if
    }def
    /terminate{
        currentdict AGM_Gradient eq{
            end
        }if
    }def

    AGM_Gradient_private begin
    /initializeVars{
        /_d255 256 array def
        0 1 255{
            _d255 exch dup 255 div put
        }bind for
        /_d255- 256 array def
        0 1 255{
            _d255- exch 1 _d255 2 index get sub put
        }bind for
        /_sSave nd
        /_dUserSpace matrix defaultmatrix def
        /_bUMatrix matrix def
        /_imageMatrix matrix def
        /_saveMatrix matrix def
        /_xm matrix def
        /_ccAry1 5 array def
        /_bbox 4 array pt
        /_level2PS
            systemdict/languagelevel known dup{
                pop systemdict/languagelevel get 2 ge
            }if
        def
        /_level3PS
            _level2PS systemdict/shfill known and
        def
        currentdict /_illustrator known not{
            /_illustrator false def
        }if
    }def
    /initializeOps
    {
        AGM_Gradient begin
        currentdict/Bc known not{
            /Bc{

```

```

        _renderFlag 2 eq _enabledSmoothShade or{
            6 npop
        }{
            pushBSpace
            _rampIndex 0 eq{
                pop pop
                setCStop
            }if
            linealFill
            popBSpace
        }ifelse
    }def
}if

currentdict/Bg known not{
    /Bg{
        10 npop
        /_gradName xp
        /_renderFlag xp
        /_enabledSmoothShade false pt

        _renderFlag 2 ne{
            _illustrator{
                _of setoverprint
            }if

            /_enabledSmoothShade
            _level3PS{
                _usingSmoothShade
                _producingSeps not
                currentoverprint not or and
                _noImage not and
            }{
                false
            }ifelse
        pt

        _illustrator _eo and _renderFlag 3 eq or{
            eoclip
        }{
            clip
        }ifelse

        _gradNames _gradName 2 copy known{
            get
            mark exch aload pop
            /_gradType xp
            1 sub dup /_rampIndex xp
            /_maxRampIndex xp
            mark exch aload pop
            0 0
        }if
        pop pop
        getRampData
    }{
        mark mark
    }ifelse
}def
}if

```

```

currentdict/Bm known not{
  /Bm{
    _renderFlag 2 ne{
      _gradType 0 eq{
        linealRamp
      }{
        radialGrad
      }ifelse
    }{
      6 npop
    }ifelse
  }def
}if

currentdict/Bh known not{
  /Bh{
    2 npop
    /_yHi xp
    /_xHi xp
    /_radHilite _xHi 0 ne _yHi 0 ne or pt
  }def
}if

currentdict/Bn known not{
  /Bn{
    AGM_Gradient_private begin
      dict /_gradNames xp
    end
  }def
}if

currentdict/Bd known not{
  /Bd{
    AGM_Gradient begin
    AGM_Gradient_private begin
      /_nColorsBd xp
      /_gradType xp
      /_gradName xp
    }def
  }if

currentdict/BD known not{
  /BD{
    currentdict/_gradNames known not{
      /_gradNames 20 dict def
    }if
    ] _nColorsBd _gradType
    ] _gradName exch /_gradNames xput
  end
  end
}def
}if

currentdict/Bb known not{
  /Bb{
    AGM_Gradient/AGM_Gradient_private get /_illustrator get not{
      AGM_Gradient begin
    }if
    AGM_Gradient_private begin

```

```

        _producingSeps{
            AGM_Gradient_Sep/AGM_Gradient_Sep_private get begin
        }if
        mySave
    }def
}if

currentdict/BB known not{
    /BB{

        /_tmp xp
        cleartomark cleartomark

        _tmp dup
        _renderFlag

        myRestore

        _producingSeps{
            end
        }if

        _illustrator dup
    end
    not {
        end
    }if

    {
        2 ne exch 0 gt and{
            2 eq{
                s
            }{
                s
            }ifelse
        }{
            pop newpath
        }ifelse
    }{
        pop newpath
    }ifelse

}def

}if

currentdict/Xm known not{
    /Xm{
        _xm astore pop
    }def
}if

end
}def
/queryDevice{
    /_inDistiller
        systemdict /currentdistillerparams known
    def
    /_inRipSep
        _level2PS{
            currentpagedevice/Separations 2 copy known{

```

```

        get
    }{
        pop pop false
    }ifelse
}{
    false
}ifelse
_inDistiller or
def
/_noImage /lv1Fix where{
    pop lv1Fix
}{
    false
}ifelse
def
/_useShells where{
    /_useShells get /_usingShells xp
}{
    /_usingShells false def
}ifelse

/_useSmoothShade where{
    pop
}{
    /_useSmoothShade false def
}ifelse
/_forceToCMYK where{
    pop
}{
    /_forceToCMYK false def
}ifelse
/_cyanPlate 1 0 0 0 testCMYKColorThrough def
/_magentaPlate 0 1 0 0 testCMYKColorThrough def
/_yellowPlate 0 0 1 0 testCMYKColorThrough def
/_blackPlate 0 0 0 1 testCMYKColorThrough def
/_compositeJob
    _cyanPlate _magentaPlate and _yellowPlate and _blackPlate and
def
/_isCMYKSep
    _cyanPlate _magentaPlate or _yellowPlate or _blackPlate or
def
/_compositeSpotDevice where{
    pop
}{
    /_compositeSpotDevice _compositeJob not _inRipSep or{
        1
    }{
        0
    }ifelse
    def
}ifelse
/_producingSeps _compositeSpotDevice 0 ne def
/_deviceDPI 72 0 matrix defaultmatrix dtransform dup mul exch dup mul add
sqrt def
/_dpiThreshold where{
    pop
}{
    /_dpiThreshold 600 def
}ifelse
/_screenFreqThreshold where{
    pop

```

```

    }{
        /_screenFreqThreshold 150 def
    }ifelse
    /_contoneDevice where{
        pop
    }{
        /_contoneDevice false def
    }ifelse
    /_subSampleOK
        _deviceDPI _dpiThreshold le
        currentScreenFreq _screenFreqThreshold le and
        _contoneDevice not and
    def
}def
/initializeRectFill{
    /rectfill where dup{
        exch pop not _producingSeps or
    }{
        not
    }ifelse
    {
        /rectfill{
            gsave
            newpath
            4 2 roll moveto
            1 index 0 rlineto
            0 1 index rlineto
            1 index neg 0 rlineto
            pop pop
            closepath
            fill
            grestore
        }def
    }if
}def
/initializeLev1{
    /currentScreenFreq{
        currentscreen pop pop
    }def
    /_byte 1 string def
    /colorimage where{
        pop
    }{
        /colorimage{
            pop pop
            /_blackTmp xp
            /_yellowTmp xp
            /_magentaTmp xp
            /_cyanTmp xp
            /_cnt 0 pt
            [
                _byte dup 0
                _cyanTmp
                /_cnt cvx /get cvx _d255 /exch cvx /get cvx .3 /mul cvx
                _magentaTmp
                /_cnt cvx /get cvx _d255 /exch cvx /get cvx .59 /mul cvx
                _yellowTmp
                /_cnt cvx /get cvx _d255 /exch cvx /get cvx .11 /mul cvx
                _blackTmp
                /_cnt cvx /get cvx _d255 /exch cvx /get cvx
            ]
            /add cvx /add cvx /add cvx 1 /exch cvx /sub cvx
        }def
    }if
}def

```



```

        /dup cvx 0 /lt cvx{
            pop 0
        }/if cvx
        /dup cvx 1 /gt cvx{
            pop 1
        }/if cvx
        255 /mul cvx /cvi cvx
        256 /mod cvx
        /dup cvx 0 /lt cvx{
            pop 0
        }/if cvx
        /put cvx
        /_cnt dup cvx 1 /add cvx /pt cvx
        ] cvx
        bind
        /_image load 5 execImage
    }def
}ifelse
}def
/initializeLev2{
    /level2ScreenFreq{
        begin
            60
            HalftoneType 1 eq{
                pop Frequency
            }if
            HalftoneType 2 eq{
                pop GrayFrequency
            }if
            HalftoneType 5 eq{
                pop Default level2ScreenFreq
            }if
        end
    }def
    /currentScreenFreq{
        currenthalftone level2ScreenFreq
    }def
}def
/initializeShading{
    _useSmoothShade _level3PS and{
        /_usingSmoothShade true pt
        initializeLev3_Ops
    }{
        /_usingSmoothShade false pt
    }ifelse
}def
/initializeLev3_Ops
{
    /initShFill{
        /_index _gradType 0 eq {0}{_maxRampIndex 1 sub} ifelse pt
        /_rampFuncsArray _maxRampIndex array pt
        /_boundsArray _maxRampIndex 1 sub array pt
        /_encodeArray _maxRampIndex 2 mul array pt
        /_beginCoord _rampPoint pt
        /_colorSpace null pt
        /_firstFill _rampIndex _maxRampIndex eq pt
        /_lastFill false pt
    }def
    /linealShFill{
        popBSpace
        _xm aload pop pushBSpace
    }def
}

```

```

/_size _index 1 add pt
_size _maxRampIndex lt {
    /_rampFuncsArray _rampFuncsArray 0 _size getinterval pt
    /_boundsArray _boundsArray 0 _size 1 sub getinterval pt
    /_encodeArray _encodeArray 0 _size 2 mul getinterval pt
}if
bd
    /ShadingType 2
    /ColorSpace _colorSpace
    _rgbInCMYK{
        /Function [
            _cData sampFunc
            _mData sampFunc
            _yData sampFunc
            _kData sampFunc
        ]
    }{
        /Function
        bd
            /FunctionType 3
            /Domain [0 1]
            /Functions _rampFuncsArray
            /Bounds _boundsArray
            /Encode _encodeArray
        ed
    }ifelse
    /Extend [_firstFill _lastFill]
    /Domain [0 1]
    /Coords [_beginCoord 0 _endCoord 0]
ed
shfill
}def

/radialShFill{
    /_size _maxRampIndex _index sub pt
    _size _maxRampIndex lt {
        /_rampFuncsArray _rampFuncsArray _index _size getinterval pt
        /_boundsArray _boundsArray _index _size 1 sub getinterval pt
        /_encodeArray _encodeArray _index 2 mul _size 2 mul
getinterval pt
    }if

    /_rampLen _beginCoord _endCoord sub pt
    bd
        /ShadingType 3
        /ColorSpace _colorSpace
        _rgbInCMYK{
            /Function [
                _cData sampFunc
                _mData sampFunc
                _yData sampFunc
                _kData sampFunc
            ]
        }{
            /Function
            bd
                /FunctionType 3
                /Domain [0 1]
                /Functions _rampFuncsArray

```

```

                                /Bounds _boundsArray
                                /Encode _encodeArray
                                ed
                                }ifelse
                                /Extend [_lastFill _firstFill]
                                /Domain [0 1]
                                /Coords [_xHi _rampLen mul _yHi _rampLen mul _endCoord 0 0
_beginCoord]
                                ed
                                shfill

                                _radHilite{
                                _xHi _rampLen mul _yHi _rampLen mul translate
                                }if
                                }def

                                %
                                /sampFunc{
                                /_tmp exch pt
                                bd
                                _tmp length 1 eq {
                                _tmp 0 get
                                /_tmp 2 string pt
                                dup _tmp 0 3 -1 roll put
                                _tmp 1 3 -1 roll put
                                }if
                                /FunctionType 0
                                /Order 1
                                /Size [_tmp length]
                                /Domain [0 1]
                                /BitsPerSample 8
                                /DataSource _tmp
                                /Range [0 1]
                                ed
                                }def

                                /fillRamp{

                                /_invert _midPoint 0.5 lt pt
                                _rampIndex _maxRampIndex eq {
                                initShFill
                                }if

                                getRampColorSpace

                                _colorSpace null eq{
                                /_colorSpace _rampColorSpace pt
                                }{
                                _colorSpace _rampColorSpace ne _rgbInCMYK or{
                                /_index _index 1
                                _gradType 0 eq{
                                sub pt
                                linealShFill
                                }{
                                add pt
                                radialShFill
                                }ifelse
                                initShFill
                                /_colorSpace _rampColorSpace pt
                                } if

```

```

    }elseifelse
    /_endCoord _endPoint pt
    /_rgbInCMYK false pt
    _producingSeps _forceToCMYK or _rgbRamp and {
        _spotColor{
            _renderCMYK
        }{
            _isCMYKSep
        }elseifelse
    }{
        false
    }elseifelse
    {
        _compositeJob{
            /_rgbInCMYK true pt
            _cyanData _magentaData _yellowData _blackData _nSamples
4 expandColor
            dup length string copy /_kData exch pt
            dup length string copy /_yData exch pt
            dup length string copy /_mData exch pt
            dup length string copy /_cData exch pt
        }{
            _rampFuncsArray _index
            _cyanPlate{_cyanData}if
            _magentaPlate{_magentaData}if
            _yellowPlate{_yellowData}if
            _blackPlate{_blackData}if
            _nSamples expandOne
            sampFunc
            dup begin /Decode [1 0] def end
            put
            /_invert false pt
        }elseifelse
    }{
        _rampFuncsArray _index
        bd
        /FunctionType 2
        /Domain [0 1]
        /N 0.5 log _invert{1 _midPoint
sub}{_midPoint}ifelse log div
        _gradType 0 eq{
            _invert{/C1}{/C0}ifelse _C0
            _invert{/C0}{/C1}ifelse _C1
        }{
            _invert{/C0}{/C1}ifelse _C1
            _invert{/C1}{/C0}ifelse _C0
        }ifelse
        ed
        put
    }elseifelse
    _rampIndex 1 ne{
        _boundsArray _index _gradType 1 eq{1 sub}if _endCoord put
    } if
    0 1 _invert {exch}if
    _encodeArray _index 2 mul 1 add 3 -1 roll put
    _encodeArray _index 2 mul 3 -1 roll put
    _rampIndex 1 eq {
        /_lastFill true pt
        _gradType 0 eq{

```

```

        linealShFill
    }{
        radialShFill
    }ifelse
}if
/_index _index 1
_gradType 0 eq{
    add pt
}{
    sub pt
}ifelse
}def
}def
/initializeComposite{
    /bwImage{
        pop /_image load 5 execImage
    }def
    /rampImage{
        _enabledSmoothShade{
            fillRamp
        }{
            _color{
                _nSamples setImageParms

                _rgbRamp _forceToCMYK not and{
                    _redData _greenData _blueData _nSamples 3
expandColor
                }{
                    true 3 null ncolorimage
                    _cyanData _magentaData _yellowData _blackData
_nSamples 4 expandColor
                }{
                    true 4 null ncolorimage
                }ifelse
            }{
                _nSamples setImageParms _blackData null bwImage
            }ifelse
        }ifelse
    }def
    /setCStop{
        /_colorStyle exch pt
        _colorStyle 0 eq{
            1 exch sub
            0 0 0
            4 -1 roll
        }if
        _colorStyle 2 eq{
            _forceToCMYK{
                3 npop setcmykcolor
            }{
                setrgbcolor 4 npop
            }ifelse
        }if
        _colorStyle 3 eq{
            1 exch sub /_tmp xp
            pop
            4{
                _tmp mul 4 1 roll
            }repeat
        }if
    }def
}

```

```

    }if
    _colorStyle 4 eq{
        _forceToCMYK{
            6 npop setcmykcolor
        }{
            3 -1 roll pop pop
            1 exch sub /_tmp xp
            3{
                1 exch sub _tmp mul 1 exch sub 3 1 roll
            }repeat
            setrgbcolor
            4 npop
        }ifelse
    }if
    _colorStyle 2 ne _colorStyle 4 ne and{
        null nsetcustomcolor
    }if
}def
/nsetcustomcolor
{
    pop setcmykcolor
}def
/nsetcustomcolorend
{
}def
/ncolorimage{
    pop
    /_colorimage load 10 execImage
}def
_noImage not _level2PS not and{
    /linealFill{
        8 setImageParms
        _color{
            currentcmykcolor
            4{
                makeByte8 4 1 roll
            }repeat
            true 4 null ncolorimage
        }{
            currentgray makeByte8 null bwImage
        }ifelse
    }def
}if
/getRampColorSpace{
    _nSamples 1 gt{
        /_ndx 0 pt
        [blendColor] cvx exec
    }if
    /_C0 [currentcolor] pt
    /_C0_Space currentcolorspace pt

    _nSamples 1 gt{
        /_ndx _nSamples 1 sub pt
        [blendColor] cvx exec
    }if
    /_C1 [currentcolor] pt
    /_C1_Space currentcolorspace pt

    /_rampColorSpace _C0_Space pt

```

```

        _spotColor{
            nsetcustomcolorend
        }if
    }def
}def
/npop{
    {pop}repeat
}def
/xd{
    exch def
}def
/nd{
    null def
}def
/pt{
    AGM_Gradient_private 3 1 roll put
}def
/xp{
    exch pt
}def
/xput{
    dup load dup length exch maxlength eq{
        dup dup load dup
        length 2 mul dict copy def
    }if
    load begin
        def
    end
}def
/mySave{
    save /_sSave xp
}def
/myRestore{
    _sSave type /savetype eq{
        _sSave restore
    }if
}def
/gMark{
    counttomark 2 add -1 roll
}def
/execImage{
    /_tmp xp
    {
        exec
    }stopped{
        $error /errorname get /undefinedresult ne{
            stop
        }{
            _tmp npop
        }ifelse
    }if
}def
/pushBspace{
    newpath gsave
    _bUMatrix astore concat
}def
/popBspace{
    grestore
}def
/makeByte8{
    /_tmp 0 pt

```

```

        255 mul cvi
        8 string 8{
            dup _tmp 3 index put
            /_tmp _tmp 1 add pt
        }repeat
        exch pop
    }def
    /setImageParms{
        1 8 2 index 0 0 1 0 0 _imageMatrix astore
    }def
    /linealFill{
        0 0 1 1 rectfill
    }def
    /testCMYKColorThrough{
        gsave
        setcmykcolor currentcmykcolor
        grestore
        add add add 0 ne
    }def
    /expandOne {
        /_tmp xp
        dup type /stringtype ne{
            _tmp string
            exch
            dup 0 ne{
                255 mul cvi
                0 1 _tmp 1 sub{
                    3 copy
                    exch put pop
                }for
            }if
            pop
        }if
    }def
    /expandColor{
        /_channels xp
        /_len xp
        _channels{
            _len expandOne _channels 1 roll
        }repeat
    }def
    /blendColor{
        _color{
            _rgbRamp _producingSeps not and _forceToCMYK not and{
                _redData dup type /stringtype eq{
                    /_ndx cvx /get cvx _d255 /exch cvx /get cvx
                }if
                _greenData dup type /stringtype eq{
                    /_ndx cvx /get cvx _d255 /exch cvx /get cvx
                }if
                _blueData dup type /stringtype eq{
                    /_ndx cvx /get cvx _d255 /exch cvx /get cvx
                }if
                /setrgbcolor cvx
            }{
                _cyanData dup type /stringtype eq{
                    /_ndx cvx /get cvx _d255 /exch cvx /get cvx
                }if
                _magentaData dup type /stringtype eq{
                    /_ndx cvx /get cvx _d255 /exch cvx /get cvx
                }if
            }
        }
    }

```



```

    }if
    _yellowData dup type /stringtype eq{
        /_ndx cvx /get cvx _d255 /exch cvx /get cvx
    }if
    _blackData dup type /stringtype eq{
        /_ndx cvx /get cvx _d255 /exch cvx /get cvx
    }if
    _spotColor{
        _rampSD begin
            /_rampSD cvx /begin cvx

            spot1 begin
                tintImage dup type /stringtype eq{
                    /_ndx cvx /get cvx _d255- /exch cvx
                }{
                    dup null ne{
                        name type /nametype ne{
                            1 exch sub
                        }if
                    }if
                }ifelse
            end
            /spot1 cvx /tintValue 3 -1 /roll cvx /put cvx

            spot2 begin
                tintImage dup type /stringtype eq{
                    /_ndx cvx /get cvx _d255- /exch cvx
                }{
                    dup null ne{
                        name type /nametype ne{
                            1 exch sub
                        }if
                    }if
                }ifelse
            end
            /spot2 cvx /tintValue 3 -1 /roll cvx /put cvx
            /end cvx
        end
        /_rampSD cvx
        /nsetcustomcolor cvx
    }{
        /setcmykcolor cvx
    }ifelse
}ifelse
}{
    _blackData dup type /stringtype eq{
        /_ndx cvx /get cvx _d255 /exch cvx /get cvx
    }if
    _enabledSmoothShade{
        1 /exch cvx /sub cvx 0 0 0 4 -1 /roll cvx /setcmykcolor cvx
    }{
        /setgray cvx
    }ifelse
}ifelse
}def
/useRectImage{
    _subSampleOK _enabledSmoothShade not and{

```

```

        {
            mark
            0 1 dtransform atan cvi 90 mod 0 eq
            1 0 dtransform atan cvi 90 mod 0 eq
        } stopped
        {
            cleartomark
            false
        }
        {
            and exch pop
        } ifelse
    }{
        false
    }ifelse
}def
/linealImage{
    _noImage{
        rectImage
    }{
        _producingSeps{
            AGM_Gradient_Sep/AGM_Gradient_Sep_private get
            /rampImage get exec
        }{
            useRectImage{
                rectImage
            }{
                rampImage
            }ifelse
        }ifelse
    }ifelse
}def
/linealRamp{
    pushBSpace
    _ramp{
        linealImage
    }{
        linealFill
    }ifelse
    popBSpace
    /_rampIndex _rampIndex 1 sub pt
    _rampIndex 0 gt{
        getRampData
    }if
}def
/radialGrad{
    /_usingShells currentoverprint _producingSeps and _usingShells or pt
    /_firstShell true pt
    _enabledSmoothShade not{
        currentoverprint _producingSeps and{

            newpath
            clippath pathbbox
            1 add 4 1 roll
            1 add 4 1 roll
            1 sub 4 1 roll
            1 sub 4 1 roll
            _bbox astore pop

            newpath
            _bbox 0 get _bbox 1 get moveto

```

```

        _bbox 2 get _bbox 1 get lineto
        _bbox 2 get _bbox 3 get lineto
        _bbox 0 get _bbox 3 get lineto
        closepath
        6 copy
        gsave _bUMatrix astore concat
        1 0 moveto 0 0 1 0 360 arc closepath
        eoclip fill
        popBSpace
    }{
        fill
    }ifelse
}if
pushBSpace

_radHilite{
    _xHi _yHi _bUMatrix idtransform /_yHi xp /_xHi xp
    _rampPoint 1 lt{
        1 _rampPoint sub dup _xHi mul exch _yHi mul translate
    }if
}if
_rampIndex{
    radialRamp
    /_rampIndex _rampIndex 1 sub pt
    _rampIndex 0 gt{
        getRampData
    }if
}repeat
popBSpace

}def
/getNSamples{
    0 exch
    {
        dup type /stringtype eq{
            length exch pop exit
        }if
        pop
    }forall
    dup 0 eq{
        pop 1
    }if
}def
/getRampData{
    /_rampType gMark pt
    /_color _rampType 0 gt pt
    /_ccRGB _rampType 5 eq _rampType 6 eq or pt
    /_rgbRamp _rampType 4 eq _ccRGB or pt
    /_ccProcess _rampType 2 eq _rampType 3 eq or pt
    _producingSeps{
        _rampSD initSpotDict
        /_spotColor _ccProcess _ccRGB or pt
    }{
        /_spotColor false pt
    }ifelse
    /_ramp true pt
    100 div /_rampPoint xp
    100 div /_midPoint xp

    dup /_colorStyle xp

```

```

_colorStyle 0 eq{
  2
}{
  _colorStyle 1 eq{
    5
  }{
    _colorStyle 2 eq{
      8
    }{
      _colorStyle 3 eq{
        _producingSeps{
          _rampSD /spot1 get begin
            /name 3 index def
            /spot_K 4 index def
            /spot_Y 5 index def
            /spot_M 6 index def
            /spot_C 7 index def
          end
        }if
        7
      }{
        _producingSeps{
          _rampSD/spot1 get begin
            /name 4 index def
            /spot_K 8 index def
            /spot_Y 9 index def
            /spot_M 10 index def
            /spot_C 11 index def
          end
        }if
        11
      } ifelse
    }ifelse
  }ifelse
}ifelse
/_tmp xp
_tmp index 100 div /_endPoint xp

_gradType 1 eq{
  _tmp 1 add index 100 div /_midPoint xp
}if

_producingSeps{
  _tmp 2 add index /_nextColorStyle xp
  _nextColorStyle 3 eq{
    /_tmp _tmp 4 add pt
    _tmp index dup
    _rampSD/spot1 get /name get ne{
      _rampSD /spot2 get begin
        /name xd
        /spot_K _tmp 2 add index def
        /spot_Y _tmp 3 add index def
        /spot_M _tmp 4 add index def
        /spot_C _tmp 5 add index def
      end
    }{
      pop
    }ifelse
  }if
  _nextColorStyle 4 eq{
    /_tmp _tmp 5 add pt
  }
}

```

```

        _tmp index dup
        _rampSD/spot1 get /name get ne{
            _rampSD /spot2 get begin
                /name xd
                /spot_K _tmp 5 add index def
                /spot_Y _tmp 6 add index def
                /spot_M _tmp 7 add index def
                /spot_C _tmp 8 add index def
            end
        }{
            pop
        }ifelse
    }if
    _rampType 3 eq _rampType 6 eq or{
        /_tint2Data gMark pt
    }if
    _ccProcess _ccRGB or{
        /_tint1Data gMark pt
    }if
    _rgbRamp{
        /_blueData gMark pt
        /_greenData gMark pt
        /_redData gMark pt
    }if
    _producingSeps{
        _ccProcess _ccRGB or{
            _rampType 3 eq _rampType 6 eq or{
                _rampSD /spot2 get begin
                    /tintImage _gradType 0 eq{
                        _tint2Data
                    }{
                        _tint1Data
                    }ifelse
                    def
                    name null eq{
                        /name /Black def
                    }if
                end
            }if
            _rampSD /spot1 get begin
                /tintImage _gradType 0 eq _rampType 2 eq or _rampType 5
eq or{
                    _tint1Data
                }{
                    _tint2Data
                }ifelse
                def
                _rampType 2 eq _rampType 5 eq or{
                    name null eq{
                        /name _rampSD/spot2 get /name get def
                        /spot_C _rampSD/spot2 get /spot_C get def
                        /spot_M _rampSD/spot2 get /spot_M get def
                        /spot_Y _rampSD/spot2 get /spot_Y get def
                        /spot_K _rampSD/spot2 get /spot_K get def
                        _rampSD/spot2 get /name null put
                    }if
                }{
                    name null eq{
                        /name /Black def

```

```

        }if
    }ifelse
end
}if
}if
/_blackData gMark pt
_rampType 0 gt{
    counttomark 4 add -3 roll
    /_yellowData xp
    /_magentaData xp
    /_cyanData xp
}if
_ramp{
    /_nSamples
    [
        _rampType 0 eq {_blackData}if
        _rampType 1 eq {_cyanData _magentaData _yellowData
_blackData}if
        _rampType 2 eq {_cyanData _magentaData _yellowData _blackData
_tint1Data}if
        _rampType 3 eq {_cyanData _magentaData _yellowData _blackData
_tint1Data _tint2Data}if
        _rampType 4 eq {_cyanData _magentaData _yellowData _blackData
_redData _greenData _blueData}if
        _rampType 5 eq {_cyanData _magentaData _yellowData _blackData
_redData _greenData _blueData _tint1Data}if
        _rampType 6 eq {_cyanData _magentaData _yellowData _blackData
_redData _greenData _blueData _tint1Data _tint2Data}if
    ] getNSamples pt
    _enabledSmoothShade not {/_ramp _nSamples 1 gt pt} if
} if

setCStop
}def
/rectImage{
    gsave
    /_sInc 1 pt
    /_bInc 1 _nSamples div pt
    /_nSubSamples _nSamples pt
    /_optimize false pt

    _subSampleOK{
        /_uRampLen 1 0 dtransform _dUserSpace idtransform dup mul exch dup
mul add sqrt pt
        /_pChange _uRampLen 0 eq{0}{_nSamples _uRampLen div}ifelse pt

        _pChange .5 gt dup /_optimize xp{
            /_nSubSamples _uRampLen 2 div round cvi dup 1 le{pop 2}if pt
            /_bInc 1 _nSubSamples div pt
            /_sInc _nSamples 1 sub _nSubSamples 1 sub div pt
        }if
    }if
    0
    _nSubSamples
    [
        /dup cvx
        _optimize {
            /round cvx /cvi cvx
        } if
        /_ndx /exch cvx /pt cvx
        blendColor

```

```

    0 0 _bInc 1 /rectfill cvx
    _bInc 0 /translate cvx
    _sInc /add cvx
  ] cvx
  bind
  repeat
  pop
  _spotColor{
    nsetcustomcolorend
  }if
  grestore
}def
/radialInit{
  /_nRadSamples _nSamples dup 0 eq{pop 1}if pt
  /_sInc -1 pt
  /_rampLen _rampPoint _endPoint sub pt
  /_bInc _rampLen _nSamples div neg pt
  /_optimize false pt
  _subSampleOK{
    /_uRampLen
    _rampLen 0 dtransform _dUserSpace idtransform dup mul exch dup
mul add sqrt
    0 _rampLen dtransform _dUserSpace idtransform dup mul exch dup
mul add sqrt
    2 copy lt{
      exch
    }if pop
    pt
    /_pChange
    _uRampLen 0 eq{
      0
    }{
      _nSamples _uRampLen div
    }ifelse
    pt
    _pChange .5 gt dup /_optimize xp{
      /_nRadSamples _uRampLen 2 div round cvi dup 1 le{pop 2}if pt
      /_bInc _rampLen _nRadSamples div neg pt
      /_sInc _nSamples 1 sub _nRadSamples 1 sub div neg pt
    }if
  }if
  _radHilite{
    /_xBCInc _xHi _rampLen mul _nRadSamples div pt
    /_yBCInc _yHi _rampLen mul _nRadSamples div pt
  }if
}def
/radialRamp{
  _enabledSmoothShade{
    fillRamp
  }{
    /_saveMatrix _saveMatrix currentmatrix def

    radialInit

    %
    %
    true
    _producingSeps _rgbRamp not and{
      _nSamples 1 gt{
        pop
        /_ndx 0 pt

```

```

        [blendColor] cvx exec
        currentInkN
        /_ndx _nSamples 1 sub pt
        [blendColor] cvx exec
        currentInkN
        or
    }if
}if
{
    _rampPoint
    _nSamples 1 sub
    _nRadSamples
    [
        /dup cvx
        _optimize{
            /round cvx /cvi cvx
        }if
        /_ndx /exch cvx /pt cvx
        _usingShells{
            /_firstShell cvx{
                /_firstShell false pt
            }{
                0 0 3 index 360 0 arcn fill
            }/ifelse cvx
        }if
        blendColor
        _usingShells{
            0 0 3 /index cvx 0 360 /arc cvx
        }{
            0 0 3 /index cvx 0 360 /arc cvx /fill cvx
        }ifelse
        /exch cvx _bInc /add cvx /exch cvx
        _sInc /add cvx
        _radHilite{
            _xBCInc _yBCInc /translate cvx
        }if
    ] cvx bind
    repeat
        pop pop
    }{
        _usingShells{
            0 0 _rampPoint 360 0 arcn fill
        }if
    }ifelse
    _saveMatrix setmatrix
    _radHilite{
        _xHi _rampLen mul _yHi _rampLen mul translate
    }if

```



```

        _usingShells _rampIndex 1 eq and{
            fill
        }if
        _spotColor{
            nsetcustomcolorend
        }if
    }ifelse
}def
end
end
defaultpacking setpacking
%%EndResource
%%BeginProcSet: Adobe_ColorImage_AI6 1.2 0
userdict /Adobe_ColorImage_AI6 known not
{
    userdict /Adobe_ColorImage_AI6 50 dict put
} if
userdict /Adobe_ColorImage_AI6 get begin
/initialize {
    Adobe_ColorImage_AI6 begin
    Adobe_ColorImage_AI6 {
        dup type /arraytype eq {
            dup xcheck {
                bind
            } if
        } if
        pop pop
    } forall
} def
/terminate { end } def
currentdict /Adobe_ColorImage_AI6_Vars known not {
    /Adobe_ColorImage_AI6_Vars 40 dict def
} if
Adobe_ColorImage_AI6_Vars begin
    /plateindex -1 def
    /_newproc null def
    /_proc1 null def
    /_proc2 null def
    /channelcount 0 def
    /sourcecount 0 def
    /sourcearray 4 array def
    /_ptispace null def
    /_ptiname null def
    /_pti0 0 def
    /_pti1 0 def
    /_ptiproc null def
    /_ptiscale 0 def
    /_pticomps 0 def
    /_ptibuf 0 string def
    /_gtigray 0 def
    /_cticmyk null def
    /_rtirgb null def
    /XIEnable true def
    /XIType 0 def
    /XIEncoding 0 def
    /XICompression 0 def
    /XIChannelCount 0 def
    /XIBitsPerPixel 0 def
    /XIImageHeight 0 def

```

```

/XIImageWidth 0 def
/XIImageMatrix null def
/XIRowBytes 0 def
/XIFile null def
/XIBuffer1 null def
/XIBuffer2 null def
/XIDataProc null def
/XIVersion 6 def
/XIColorSpace /DeviceGray def
/XIColorValues 0 def
end
currentdict /_colorimage known not {
  /colorimage where {
    /colorimage get /_colorimage exch def
  }{
    /_colorimage null def
  } ifelse
} if
/_image systemdict /image get def
/_currenttransfer systemdict /currenttransfer get def
/FourEqual {
  4 index ne {
    pop pop pop false
  }{
    4 index ne {
      pop pop false
    }{
      4 index ne {
        pop false
      }{
        4 index eq
      } ifelse
    } ifelse
  } ifelse
} ifelse
} def
/TestPlateIndex {
  Adobe_ColorImage_AI6_Vars begin
    /plateindex -1 def
    /setcmykcolor where {
      pop
      gsave
      1 0 0 0 setcmykcolor systemdict /currentgray get exec 1 exch
sub
      0 1 0 0 setcmykcolor systemdict /currentgray get exec 1 exch
sub
      0 0 1 0 setcmykcolor systemdict /currentgray get exec 1 exch
sub
      0 0 0 1 setcmykcolor systemdict /currentgray get exec 1 exch
sub
      grestore
      1 0 0 0 FourEqual {
        /plateindex 0 def
      }{
        0 1 0 0 FourEqual {
          /plateindex 1 def
        }{
          0 0 1 0 FourEqual {
            /plateindex 2 def
          }{
            0 0 0 1 FourEqual {
              /plateindex 3 def
            }
          }
        }
      }
    }
  }

```

```

                                }{
                                0 0 0 0 FourEqual {
                                /plateindex 5 def
                                } if
                                } ifelse
                                } ifelse
                                } ifelse
                                } ifelse
                                pop pop pop pop
                                } if
                                plateindex
end
} def
/concatprocs {
    /packedarray where {
        pop dup type /packedarraytype eq 2 index type
        /packedarraytype eq or
    }{
        false
    } ifelse
    {
        /_proc2 exch cvlit def
        /_proc1 exch cvlit def
        _proc1 aload pop
        _proc2 aload pop
        _proc1 length
        _proc2 length add
        packedarray cvx
    }{
        /_proc2 exch cvlit def
        /_proc1 exch cvlit def
        /_newproc _proc1 length _proc2 length add array def
        _newproc 0 _proc1 putinterval
        _newproc _proc1 length _proc2 putinterval
        _newproc cvx
    } ifelse
} def
/clrspaceissepn {
    type /arraytype eq
} def
/clrspacegetname {
    dup clrspaceissepn {dup length 2 sub get}{pop ()} ifelse
} def
/clrspacegetalt {
    aload pop pop pop colormake
} def
/clrspacegetcomps {
    dup /DeviceGray eq {
        pop 1
    }{
        dup /DeviceRGB eq {
            pop 3
        }{
            /DeviceCMYK eq {
                4
            }{
                1
            } ifelse
        } ifelse
    } ifelse
} def
} def

```

```

/clrspacemarksplate {
  dup /DeviceGray eq {
    pop plateindex 3 eq
  }{
    dup /DeviceRGB eq {
      pop plateindex 5 ne
    }{
      dup /DeviceCMYK eq {
        pop plateindex 5 ne
      }{
        /findcmykcustomcolor where {
          pop
          dup length 2 sub get
          0.1 0.1 0.1 0.1 5 -1 roll
          findcmykcustomcolor 1 setcustomcolor
          systemdict /currentgray get exec
          1 ne
        }{
          pop plateindex 5 ne
        } ifelse
      } ifelse
    } ifelse
  } ifelse
} def
/colormake {
  dup clrspacegetcomps
  exch 1 index 2 add 1 roll
  dup 1 eq {pop}{array astore} ifelse
  exch
} def
/colorexpand {
  dup clrspacegetname exch
  dup clrspaceissep {
    clrspacegetalt
    exch 4 1 roll
  }{
    1 3 1 roll
  } ifelse
} def
/colortint {
  dup /DeviceGray eq {
    3 1 roll 1 exch sub mul 1 exch sub exch
  }{
    dup /DeviceRGB eq {
      3 1 roll {1 exch sub 1 index mul 1 exch sub exch} forall pop 3
    array astore exch
  }{
    dup /DeviceCMYK eq {
      3 1 roll {1 index mul exch} forall pop 4 array astore
    exch
  }{
    3 1 roll mul exch
  } ifelse
} ifelse
} def
/colortocmyk {
  dup /DeviceGray eq {
    pop 1 exch sub 0 0 0 4 -1 roll 4 array astore
  }{
    dup /DeviceRGB eq {

```

```

        pop aload pop _rgbtocmyk 4 array astore
    }{
        dup /DeviceCMYK eq {
            pop
        }{
            clrspacegetalt colortint colortocmyk
        } ifelse
    } ifelse
} def
/makeimagedict {
    7 dict begin
        /ImageType 1 def
        /Decode exch def
        /DataSource exch def
        /ImageMatrix exch def
        /BitsPerComponent exch def
        /Height exch def
        /Width exch def
        currentdict end
    } def
/stringinvert {
    0 1 2 index length 1 sub {
        dup 2 index exch get 255 exch sub 2 index 3 1 roll put
    } for
} def
/stringknockout {
    0 1 2 index length 1 sub {
        255 2 index 3 1 roll put
    } for
} def
/stringapply {
    0 1 4 index length 1 sub {
        dup
        4 index exch get
        3 index 3 1 roll
        3 index exec
    } for
    pop exch pop
} def
/WalkRGBString {
    0 3 index
    dup length 1 sub 0 3 3 -1 roll {
        3 getinterval {} forall
        5 index exec
        3 index
    } for
    5 {pop} repeat
} def
/WalkCMYKString
{
    0 3 index
    dup length 1 sub 0 4 3 -1 roll {
        4 getinterval {} forall

        6 index exec

        3 index
    } for

```

```

        5 { pop } repeat
    } def
/StuffRGBIntoGrayString
{
    .11 mul exch
    .59 mul add exch
    .3 mul add
    cvi 3 copy put
    pop 1 add
} def
/StuffCMYKIntoGrayString
{
    exch .11 mul add
    exch .59 mul add
    exch .3 mul add
    dup 255 gt { pop 255 } if
    255 exch sub cvi 3 copy put
    pop 1 add
} def
/RGBToGrayImageProc {
    Adobe_ColorImage_AI6_Vars begin
        sourcearray 0 get exec
        dup length 3 idiv string
        dup 3 1 roll

        /StuffRGBIntoGrayString load exch
        WalkRGBString
    end
} def
/CMYKToGrayImageProc {
    Adobe_ColorImage_AI6_Vars begin
        sourcearray 0 get exec
        dup length 4 idiv string
        dup 3 1 roll

        /StuffCMYKIntoGrayString load exch
        WalkCMYKString
    end
} def
/SeparateCMYKImageProc {
    Adobe_ColorImage_AI6_Vars begin
        sourcecount 0 ne {
            sourcearray plateindex get exec
        }{
            sourcearray 0 get exec

            dup length 4 idiv string

            0 2 index

```



```

        systemdict /settransfer get exec
    } if
    _colorimage
    Adobe_ColorImage_AI6_Vars /plateindex get 5 eq {
        grestore
    } if
    } ifelse
} ifelse
}{}
dup 1 eq {
    pop pop
    image
}{}
    pop pop
    Adobe_ColorImage_AI6_Vars begin
        sourcecount -1 0 {
            exch sourcearray 3 1 roll put
        } for
    /SeparateCMYKImageProc load
end
    systemdict /image get exec
} ifelse
} ifelse
} def
/proctintimage {
    /_ptispace exch store /_ptiname exch store /_pti1 exch store /_pti0 exch
    store /_ptiproc exch store
    /_pticomps _ptispace clrspacegetcomps store
    /_ptiscale _pti1 _pti0 sub store
    level2? {
        _ptiname length 0 gt version cvr 2012 ge and {
            [/Separation _ptiname _ptispace {_ptiproc}] setcolorspace
            [_pti0 _pti1] makeimagedict _image
        }{
            [/Indexed _ptispace 255 {255 div _ptiscale mul _pti0 add
_ptiproc}] setcolorspace
            [0 255] makeimagedict _image
        } ifelse
    }{}
        _pticomps 1 eq {
            {
                dup
                {
                    255 div _ptiscale mul _pti0 add _ptiproc 255 mul
cvi put
                } stringapply
            } concatprocs _image
        }{}
            {
                dup length _pticomps mul dup _ptibuf length ne {/_ptibuf
exch string store}{pop} ifelse
                _ptibuf {
                    exch _pticomps mul exch 255 div _ptiscale mul
_pti0 add _ptiproc
                    _pticomps 2 add -2 roll
                    _pticomps 1 sub -1 0 {
                        1 index add 2 index exch
                        5 -1 roll

```



```

                255 mul cvi put
            } for
            pop pop
        } stringapply
    } concatprocs false _pticomps
    /_colorimage load null eq {7 {pop} repeat}{_colorimage} ifelse
} ifelse
} ifelse
} def
/graytintimage {
    /_gtigray 5 -1 roll store
    {1 _gtigray sub mul 1 exch sub} 4 1 roll
    /DeviceGray proctintimage
} def
/cmyktintimage {
    /_cticmyk 5 -1 roll store
    {_cticmyk {1 index mul exch} forall pop} 4 1 roll
    /DeviceCMYK proctintimage
} def
/rgbtintimage {
    /_rtirgb 5 -1 roll store
    {_rtirgb {1 exch sub 1 index mul 1 exch sub exch} forall pop} 4 1 roll
    /DeviceRGB proctintimage
} def
/tintimage {
    TestPlateIndex -1 eq {
        colorexpan
        3 -1 roll 5 -1 roll {0}{0 exch} ifelse 4 2 roll
        dup /DeviceGray eq {
            pop graytintimage
        }{
            dup /DeviceRGB eq {
                pop rgbtintimage
            }{
                pop cmyktintimage
            } ifelse
        } ifelse
    }{
        dup clrspacemarksplate {
            plateindex 5 lt {
                colortocmyk plateindex get 1 exch sub
                exch {1 0}{0 1} ifelse () graytintimage
            }{
                pop exch {0}{0 exch} ifelse 0 3 1 roll () graytintimage
            } ifelse
        }{
            pop pop pop
            {pop 1} 0 1 () /DeviceGray proctintimage
        } ifelse
    } ifelse
} def
/XI_NULLImage {
} def
/XI_ImageMask {
    XIImageWidth XIImageHeight false
    [XIImageWidth 0 0 XIImageHeight neg 0 0]
    /XIDataProc load
    imagemask
} def
/XI_ImageTint {
    0 setgray

```

```

        XIImageWidth XIImageHeight XIBitsPerPixel
        [XIImageWidth 0 0 XIImageHeight neg 0 0]
        /XIDataProc load
        XIType 3 eq XIColorValues XIColorSpace tintimage
    } def
/XIImage {
    0 setgray
    XIImageWidth XIImageHeight XIBitsPerPixel
    [XIImageWidth 0 0 XIImageHeight neg 0 0]
    /XIDataProc load
    XIChannelCount 1 eq {image}{false XIChannelCount colorimage} ifelse
} def
/XG {
    pop pop
} def
/XF {
    13 {pop} repeat
} def
/Xh {
    Adobe_ColorImage_AI6_Vars begin
        gsave
        /XIType exch def
        /XIImageHeight exch def
        /XIImageWidth exch def
        /XIImageMatrix exch def
        0 0 moveto
        XIImageMatrix concat
        XIImageWidth XIImageHeight scale

        XIType 1 eq {
            /_lp /null ddef
            _fc
            /_lp /imagemask ddef
        }
        if
        /XIVersion 7 def
    end
} def
/XH {
    Adobe_ColorImage_AI6_Vars begin
        /XIVersion 6 def
        grestore
    end
} def
/XIEnable {
    Adobe_ColorImage_AI6_Vars /XIEnable 3 -1 roll put
} def
/XC {
    Adobe_ColorImage_AI6_Vars begin
        colormake
        /XIColorSpace exch def
        /XIColorValues exch def
    end
} def
/XI
{
    Adobe_ColorImage_AI6_Vars begin
        gsave
        /XIType exch def
        cvi dup
        256 idiv /XICompression exch store

```

```

256 mod /XIEncoding exch store
pop pop
/XIChannelCount exch def
/XIBitsPerPixel exch def
/XIImageHeight exch def
/XIImageWidth exch def
pop pop pop pop
/XIImageMatrix exch def
XIBitsPerPixel 1 eq {
    XIImageWidth 8 div ceiling cvi
}{
    XIImageWidth XIChannelCount mul
} ifelse
/XIRowBytes exch def
XIEncoding 0 ne XIVersion 6 le and {
    currentfile 128 string readline pop pop
} if
XICompression 0 eq {
    /XIBuffer1 XIRowBytes string def
    XIEncoding 0 eq {
        {currentfile XIBuffer1 readhexstring pop}
    }{
        {currentfile XIBuffer1 readstring pop}
    } ifelse
}{
    /XIBuffer1 256 string def
    /XIBuffer2 XIRowBytes string def
    {currentfile XIBuffer1 readline pop (%) anchorsearch {pop} if}
    /ASCIIHexDecode filter /DCTDecode filter
    /XIFile exch def
    {XIFile XIBuffer2 readstring pop}
} ifelse
/XIDataProc exch def

XIVersion 6 le {
    0 0 moveto
    XIImageMatrix concat
    XIImageWidth XIImageHeight scale
    XITYPE 1 eq {
        /_lp /null ddef
        _fc
        /_lp /imagemask ddef
    } if
} if
XIEnable {
    XITYPE 1 eq {
        XIImageMask
    }{
        XITYPE 2 eq XITYPE 3 eq or {
            XIImageTint
        }{
            XIImage
        } ifelse
    } ifelse
}{
    XINullImage
} ifelse
grestore

```

```

end
} def
end

```

```

%%EndProcSet
%%BeginResource: procset Adobe_Illustrator_AI5 1.2 0
%%Title: (Adobe Illustrator (R) Version 7.0 Full Prolog)
%%Version: 1.2 0
%%CreationDate: (3/7/1994) ( )
%%Copyright: ((C) 1987-1996 Adobe Systems Incorporated All Rights Reserved)
currentpacking true setpacking
userdict /Adobe_Illustrator_AI5_vars 107 dict dup begin
put
/_eo false def
/_lp /none def
/_pf
{
} def
/_ps
{
} def
/_psf
{
} def
/_pss
{
} def
/_pjsf
{
} def
/_pjss
{
} def
/_pola 0 def
/_doClip 0 def
/cf currentflat def
/_lineorientation 0 def
/_charorientation 0 def
/_yokoorientation 0 def
/_tm matrix def
/_renderStart
[
/e0 /r0 /a0 /o0 /e1 /r1 /a1 /i0
] def
/_renderEnd
[
null null null null /i1 /i1 /i1 /i1
] def
/_render -1 def
/_shift [0 0] def
/_ax 0 def
/_ay 0 def
/_cx 0 def
/_cy 0 def
/_leading
[
0 0
] def
/_ctm matrix def
/_mtx matrix def
/_sp 16#020 def
/_hyphen (-) def
/_fontSize 0 def
/_fontAscent 0 def
/_fontDescent 0 def

```

```
/_fontHeight 0 def
/_fontRotateAdjust 0 def
/Ss 256 string def
Ss 0 (fonts/) putinterval
/_cnt 0 def
/_scale [1 1] def
/_nativeEncoding 0 def
/_useNativeEncoding 0 def
/_tempEncode 0 def
/_pntr 0 def
/_tDict 2 dict def
/_hfname 100 string def
/_hffound false def
/Tx
{
} def
/Tj
{
} def
/CRender
{
} def
/_AI3_savepage
{
} def
/_gf null def
/_cf 4 array def
/_rgbf 3 array def
/_if null def
/_of false def
/_fc
{
} def
/_gs null def
/_cs 4 array def
/_rgbs 3 array def
/_is null def
/_os false def
/_sc
{
} def
/_pd 1 dict def
/_ed 15 dict def
/_pm matrix def
/_fm null def
/_fd null def
/_fdd null def
/_sm null def
/_sd null def
/_sdd null def
/_i null def
/_lobyte 0 def
/_hibyte 0 def
/_cproc null def
/_cscript 0 def
/_hvax 0 def
/_hvay 0 def
/_hvwb 0 def
/_hvcx 0 def
/_hvcy 0 def
/_bitfont null def
```

```

/_bitlobyte 0 def
/_bithibyte 0 def
/_bitkey null def
/_bitdata null def
/_bitindex 0 def
/discardSave null def
/buffer 256 string def
/beginString null def
/endString null def
/endStringLength null def
/layerCnt 1 def
/layerCount 1 def
/perCent (%) 0 get def
/perCentSeen? false def
/newBuff null def
/newBuffButFirst null def
/newBuffLast null def
/clipForward? false def
end
userdict /Adobe_Illustrator_AI5 known not {
    userdict /Adobe_Illustrator_AI5 95 dict put
} if
userdict /Adobe_Illustrator_AI5 get begin
/initialize
{
    Adobe_Illustrator_AI5 dup begin
    Adobe_Illustrator_AI5_vars begin
    discardDict
    {
        bind pop pop
    } forall
    dup /nc get begin
    {
        dup xcheck 1 index type /operatortype ne and
        {
            bind
        } if
        pop pop
    } forall
    end
    newpath
} def
/terminate
{
    end
    end
} def
/_
null def
/ddef
{
    Adobe_Illustrator_AI5_vars 3 1 roll put
} def
/xput
{
    dup load dup length exch maxlength eq
    {
        dup dup load dup
        length 2 mul dict copy def
    } if
    load begin

```

```

    def
    end
} def
/npop
{
    {
        pop
    } repeat
} def
/hswj
{
    dup stringwidth 3 2 roll
    {
        _hvw b eq { exch _hvcx add exch _hvcy add } if
        exch _hvax add exch _hvay add
    } cforall
} def
/vswj
{
    0 0 3 -1 roll
    {
        dup 255 le
        _charorientation 1 eq
        and
        {
            dup cstring stringwidth 5 2 roll
            _hvw b eq { exch _hvcy sub exch _hvcx sub } if
            exch _hvay sub exch _hvax sub
            4 -1 roll sub exch
            3 -1 roll sub exch
        }
    }
    {
        _hvw b eq { exch _hvcy sub exch _hvcx sub } if
        exch _hvay sub exch _hvax sub
        _fontHeight sub
    } ifelse
} cforall
} def
/swj
{
    6 1 roll
    /_hvay exch ddef
    /_hvax exch ddef
    /_hvw b exch ddef
    /_hvcy exch ddef
    /_hvcx exch ddef
    _lineorientation 0 eq { hswj } { vswj } ifelse
} def
/sw
{
    0 0 0 6 3 roll swj
} def
/vjss
{
    4 1 roll
    {
        dup cstring
        dup length 1 eq
        _charorientation 1 eq
        and
        {

```

```

        -90 rotate
        currentpoint
        _fontRotateAdjust add
        moveto
        gsave
        false charpath currentpoint
        5 index setmatrix stroke
        grestore
        _fontRotateAdjust sub
        moveto
        _sp eq
        {
            5 index 5 index rmoveto
        } if
        2 copy rmoveto
        90 rotate
    }
    {
        currentpoint
        _fontHeight sub
        5 index sub
        3 index _sp eq
        {
            9 index sub
        } if

        currentpoint
        exch 4 index stringwidth pop 2 div sub
        exch _fontAscent sub
        moveto

        gsave
        2 index false charpath
        6 index setmatrix stroke
        grestore

        moveto pop pop
    } ifelse
} cforall
6 npop
} def
/hjss
{
    4 1 roll
    {
        dup cstring
        gsave
        false charpath currentpoint
        5 index setmatrix stroke
        grestore
        moveto
        _sp eq
        {
            5 index 5 index rmoveto
        } if
        2 copy rmoveto
    } cforall
    6 npop
} def
/jss
{

```



```

        _lineorientation 0 eq { hjss } { vjss } ifelse
    } def
    /ss
    {
        0 0 0 7 3 roll jss
    } def
    /vjsp
    {
        4 1 roll
        {
            dup cstring
            dup length 1 eq
            _charorientation 1 eq
            and
            {
                -90 rotate
                currentpoint
                _fontRotateAdjust add
                moveto
                false charpath
            }
            currentpoint
            _fontRotateAdjust sub
            moveto
            _sp eq
            {
                5 index 5 index rmoveto
            } if
            2 copy rmoveto
            90 rotate
        }
        {
            currentpoint
            _fontHeight sub
            5 index sub
            3 index _sp eq
            {
                9 index sub
            } if
            currentpoint
            exch 4 index stringwidth pop 2 div sub
            exch _fontAscent sub
            moveto
            2 index false charpath
            moveto pop pop
        } ifelse
    } cforall
    6 npop
} def
/hjsp
{
    4 1 roll
    {
        dup cstring
        false charpath
        _sp eq
        {
            5 index 5 index rmoveto
        } if
    }

```

```

        2 copy rmoveto
    } cforall
    6 npop
} def
/jsp
{
    matrix currentmatrix
    _lineorientation 0 eq {hjsp} {vjsp} ifelse
} def
/sp
{
    matrix currentmatrix
    0 0 0 7 3 roll
    _lineorientation 0 eq {hjsp} {vjsp} ifelse
} def
/pl
{
    transform
    0.25 sub round 0.25 add exch
    0.25 sub round 0.25 add exch
    itransform
} def
/setstrokeadjust where
{
    pop true setstrokeadjust
    /c
    {
        curveto
    } def
    /C
    /c load def
    /v
    {
        currentpoint 6 2 roll curveto
    } def
    /V
    /v load def
    /y
    {
        2 copy curveto
    } def
    /Y
    /y load def
    /l
    {
        lineto
    } def
    /L
    /l load def
    /m
    {
        moveto
    } def
}
{
    /c
    {
        pl curveto
    } def
    /C
    /c load def

```

```

    /v
    {
        currentpoint 6 2 roll pl curveto
    } def
/V
/v load def
/y
{
    pl 2 copy curveto
} def
/Y
/y load def
/l
{
    pl lineto
} def
/L
/l load def
/m
{
    pl moveto
} def
} ifelse
/d
{
    setdash
} def
/cf
{
} def
/i
{
    dup 0 eq
    {
        pop cf
    } if
    setflat
} def
/j
{
    setlinejoin
} def
/J
{
    setlinecap
} def
/M
{
    setmiterlimit
} def
/w
{
    setlinewidth
} def
/XR
{
    0 ne
    /_eo exch ddef
} def
/H
{

```

```

} def
/h
{
    closepath
} def
/N
{
    _pola 0 eq
    {
        _doClip 1 eq
        {
            _eo {eoclip} {clip} ifelse /_doClip 0 ddef
        } if
        newpath
    }
    {
        /CRender
        {
            N
        } ddef
    } ifelse
} def
/n
{
    N
} def
/F
{
    _pola 0 eq
    {
        _doClip 1 eq
        {
            gsave _pf grestore _eo {eoclip} {clip} ifelse newpath /_lp
        }
        /none ddef _fc
        {
            _doClip 0 ddef
        }
        {
            _pf
        } ifelse
    }
    {
        /CRender
        {
            F
        } ddef
    } ifelse
} def
/f
{
    closepath
    F
} def
/S
{
    _pola 0 eq
    {
        _doClip 1 eq
        {
            gsave _ps grestore _eo {eoclip} {clip} ifelse newpath /_lp
        }
        /none ddef _sc
        {
            _doClip 0 ddef
        }
    }
    {
        /CRender
        {
            F
        } ddef
    } ifelse
} def

```

```

        }
        {
            _ps
        } ifelse
    }
    {
        /CRender
        {
            S
        } ddef
    } ifelse
} def
/s
{
    closepath
    S
} def
/B
{
    _pola 0 eq
    {
        _doClip 1 eq
        gsave F grestore
        {
            gsave S grestore _eo {eoclip} {clip} ifelse newpath /_lp /none
            /_doClip 0 ddef
        }
        {
            S
        } ifelse
    }
    {
        /CRender
        {
            B
        } ddef
    } ifelse
} def
/b
{
    closepath
    B
} def
/W
{
    /_doClip 1 ddef
} def
/*
{
    count 0 ne
    {
        dup type /stringtype eq
        {
            pop
        } if
    } if
    newpath
} def
/u
{

```

```

} def
/U
{
} def
/q
{
    _pola 0 eq
    {
        gsave
    } if
} def
/Q
{
    _pola 0 eq
    {
        grestore
    } if
} def
/*u
{
    _pola 1 add /_pola exch ddef
} def
/*U
{
    _pola 1 sub /_pola exch ddef
    _pola 0 eq
    {
        CRender
    } if
} def
/D
{
    pop
} def
/*w
{
} def
/*W
{
} def
/\
{
    /_i save ddef
    clipForward?
    {
        nulldevice
    } if
    6 1 roll 4 npop
    concat pop
    userdict begin
    /showpage
    {
    } def
    0 setgray
    0 setlinecap
    1 setlinewidth
    0 setlinejoin
    10 setmiterlimit
    [] 0 setdash
    /setstrokeadjust where {pop false setstrokeadjust} if
    newpath

```

```

        0 setgray
        false setoverprint
    } def
    /~
    {
        end
        _i restore
    } def
    /0
    {
        0 ne
        /_of exch ddef
        /_lp /none ddef
    } def
    /R
    {
        0 ne
        /_os exch ddef
        /_lp /none ddef
    } def
    /g
    {
        /_gf exch ddef
        /_fc
        {
            _lp /fill ne
            {
                _of setoverprint
                _gf setgray
                /_lp /fill ddef
            } if
        } ddef
        /_pf
        {
            _fc
            _eo {eofill} {fill} ifelse
        } ddef
        /_psf
        {
            _fc
            hvashow
        } ddef
        /_pjsf
        {
            _fc
            hvawidthshow
        } ddef
        /_lp /none ddef
    } def
    /G
    {
        /_gs exch ddef
        /_sc
        {
            _lp /stroke ne
            {
                _os setoverprint
                _gs setgray
                /_lp /stroke ddef
            } if
        } ddef
    }

```

```

/_ps
{
    _sc
    stroke
} ddef
/_pss
{
    _sc
    ss
} ddef
/_pjss
{
    _sc
    jss
} ddef
/_lp /none ddef
} def
/k
{
    _cf astore pop
    /_fc
    {
        _lp /fill ne
        {
            _of setoverprint
            _cf aload pop setcmykcolor
            /_lp /fill ddef
        } if
    } ddef
    /_pf
    {
        _fc
        _eo {eofill} {fill} ifelse
    } ddef
    /_psf
    {
        _fc
        hvashow
    } ddef
    /_pjsf
    {
        _fc
        hvawidthshow
    } ddef
    /_lp /none ddef
} def
/K
{
    _cs astore pop
    /_sc
    {
        _lp /stroke ne
        {
            _os setoverprint
            _cs aload pop setcmykcolor
            /_lp /stroke ddef
        } if
    } ddef
    /_ps
    {
        _sc

```



```

        stroke
    } ddef
/_pss
{
    _sc
    ss
} ddef
/_pjss
{
    _sc
    jss
} ddef
/_lp /none ddef
} def
/Xa
{
    _rgbf astore pop
/_fc
{
    _lp /fill ne
    {
        _of setoverprint
        _rgbf aload pop setrgbcolor
        _lp /fill ddef
    } if
} ddef
/_pf
{
    _fc
    _eo {eofill} {fill} ifelse
} ddef
/_psf
{
    _fc
    hvashow
} ddef
/_pjsf
{
    _fc
    hvawidthshow
} ddef
/_lp /none ddef
} def
/XA
{
    _rgbs astore pop
/_sc
{
    _lp /stroke ne
    {
        _os setoverprint
        _rgbs aload pop setrgbcolor
        _lp /stroke ddef
    } if
} ddef
/_ps
{
    _sc
    stroke
} ddef
/_pss

```

```

        {
            _sc
            ss
        } ddef
        /_pjss
        {
            _sc
            jss
        } ddef
        /_lp /none ddef
    } def
    /_rgbtocmyk
    {
        3
        {
            1 exch sub 3 1 roll
        } repeat
        3 copy 1 4 1 roll
        3
        {
            3 index 2 copy gt
            {
                exch
            } if
            pop 4 1 roll
        } repeat
        pop pop pop
        4 1 roll
        3
        {
            3 index sub
            3 1 roll
        } repeat
        4 -1 roll
    } def
    /Xx
    {
        exch
        /_gf exch ddef
        0 eq
        {
            findcmykcustomcolor
        }
        {
            /findrgbcustomcolor where not {
                4 1 roll _rgbtocmyk
                5 -1 roll
                findcmykcustomcolor
            }
            {
                pop
                findrgbcustomcolor
            } ifelse
        } ifelse
        /_if exch ddef
        /_fc
        {
            _lp /fill ne
            {
                _of setoverprint
                _if _gf 1 exch sub setcustomcolor
            }
        }
    }

```

```

        } if
    } ddef
/_pf
{
    _fc
    _eo {eofill} {fill} ifelse
} ddef
/_psf
{
    _fc
    hvashow
} ddef
/_pjsf
{
    _fc
    hvawidthshow
} ddef
/_lp /none ddef
} def
/XX
{
    exch
/_gs exch ddef
0 eq
{
    findcmykcustomcolor
}
{
    /findrgbcustomcolor where not {
        4 1 roll _rgbtocmyk
        5 -1 roll
        findcmykcustomcolor
    }
    {
        pop
        findrgbcustomcolor
    } ifelse
} ifelse
/_is exch ddef
/_sc
{
    _lp /stroke ne
    {
        _os setoverprint
        _is _gs 1 exch sub setcustomcolor
        _lp /stroke ddef
    } if
} ddef
/_ps
{
    _sc
    stroke
} ddef
/_pss
{
    _sc
    ss
} ddef
/_pjss
{

```

```

        _sc
      jss
    } ddef
  /_lp /none ddef
} def
/X
{
  /_gf exch ddef
  findcmykcustomcolor
  /_if exch ddef
  /_fc
  {
    _lp /fill ne
    {
      _of setoverprint
      _if _gf 1 exch sub setcustomcolor
      /_lp /fill ddef
    } if
  } ddef
  /_pf
  {
    _fc
    _eo {eofill} {fill} ifelse
  } ddef
  /_psf
  {
    _fc
    hvashow
  } ddef
  /_pjsf
  {
    _fc
    hvawidthshow
  } ddef
  /_lp /none ddef
} def
/X
{
  /_gs exch ddef
  findcmykcustomcolor
  /_is exch ddef
  /_sc
  {
    _lp /stroke ne
    {
      _os setoverprint
      _is _gs 1 exch sub setcustomcolor
      /_lp /stroke ddef
    } if
  } ddef
  /_ps
  {
    _sc
    stroke
  } ddef
  /_pss
  {
    _sc
    ss
  } ddef
  /_pjss

```

```

        {
            _sc
            jss
        } ddef
        /_lp /none ddef
    } def
    /A
    {
        pop
    } def
    /annotatepage
    {
        userdict /annotatepage 2 copy known {get exec} {pop pop} ifelse
    } def
    /XT {
        pop pop
    } def
    /discard
    {
        save /discardSave exch store
        discardDict begin
        /endString exch store
        gt38?
        {
            2 add
        } if
        load
        stopped
        pop
    end
        discardSave restore
    } bind def
    userdict /discardDict 7 dict dup begin
    put
    /pre38Initialize
    {
        /endStringLength endString length store
        /newBuff buffer 0 endStringLength getinterval store
        /newBuffButFirst newBuff 1 endStringLength 1 sub getinterval store
        /newBuffLast newBuff endStringLength 1 sub 1 getinterval store
    } def
    /shiftBuffer
    {
        newBuff 0 newBuffButFirst putinterval
        newBuffLast 0
        currentfile read not
        {
            stop
        } if
        put
    } def
    0
    {
        pre38Initialize
        mark
        currentfile newBuff readstring exch pop
        {
            {
                newBuff endString eq
                {
                    cleartomark stop

```

```

        } if
        shiftBuffer
    } loop
}
{
    stop
} ifelse
} def
1
{
    pre38Initialize
    /beginString exch store
    mark
    currentfile newBuff readstring exch pop
    {
        {
            newBuff beginString eq
            {
                /layerCount dup load 1 add store
            }
            {
                newBuff endString eq
                {
                    /layerCount dup load 1 sub store
                    layerCount 0 eq
                    {
                        cleartomark stop
                    } if
                } if
            } ifelse
        } if
        shiftBuffer
    } loop
} if
} def
2
{
    mark
    {
        currentfile buffer readline not
        {
            stop
        } if
        endString eq
        {
            cleartomark stop
        } if
    } loop
} def
3
{
    /beginString exch store
    /layerCnt 1 store
    mark
    {
        currentfile buffer readline not
        {
            stop
        } if
        dup beginString eq
        {
            pop /layerCnt dup load 1 add store

```

```

    }
    {
        endString eq
        {
            layerCnt 1 eq
            {
                cleartomark stop
            }
            {
                /layerCnt dup load 1 sub store
            } ifelse
        } if
    } ifelse
} loop
} def
end
userdict /clipRenderOff 15 dict dup begin
put
{
    /n /N /s /S /f /F /b /B
}
{
    {
        _doClip 1 eq
        {
            /_doClip 0 ddef _eo {eoclip} {clip} ifelse
        } if
        newpath
    } def
} forall
/Tr /pop load def
/Bb {} def
/BB /pop load def
/Bg {12 npop} def
/Bm {6 npop} def
/Bc /Bm load def
/Bh {4 npop} def
end
/Lb
{
    4 npop
    6 1 roll
    pop
    4 1 roll
    pop pop pop
    0 eq
    {
        0 eq
        {
            (%AI5_BeginLayer) 1 (%AI5_EndLayer--) discard
        }
        {
            /clipForward? true def

            /Tx /pop load def
            /Tj /pop load def

            currentdict end clipRenderOff begin begin
        } ifelse
    }
}

```

```

        {
            0 eq
            {
                save /discardSave exch store
            } if
        } ifelse
    } bind def
/LB
{
    discardSave dup null ne
    {
        restore
    }
    {
        pop
        clipForward?
        {
            currentdict
            end
            end
            begin

                /clipForward? false ddef
            } if
        } ifelse
    } bind def
/Pb
{
    pop pop
    0 (%AI5_EndPalette) discard
} bind def
/Np
{
    0 (%AI5_End_NonPrinting--) discard
} bind def
/Ln /pop load def
/Ap
/pop load def
/Ar
{
    72 exch div
    0 dtransform dup mul exch dup mul add sqrt
    dup 1 lt
    {
        pop 1
    } if
    setflat
} def
/Mb
{
    q
} def
/Md
{
} def
/MB
{
    Q
} def
/nc 4 dict def
nc begin

```



```

/setgray
{
    pop
} bind def
/setcmykcolor
{
    4 npop
} bind def
/setrgbcolor
{
    3 npop
} bind def
/setcustomcolor
{
    2 npop
} bind def
currentdict readonly pop
end
end
setpacking
%%EndResource
%%BeginResource: procset Adobe_cshow 2.0 8
%%Title: (Writing System Operators)
%%Version: 2.0 8
%%CreationDate: (1/23/89) ( )
%%Copyright: ((C) 1992-1996 Adobe Systems Incorporated All Rights Reserved)
currentpacking true setpacking
userdict /Adobe_cshow 14 dict dup begin put
/initialize
{
    Adobe_cshow begin
    Adobe_cshow
    {
        dup xcheck
        {
            bind
        } if
        pop pop
    } forall
end
    Adobe_cshow begin
} def
/terminate
{
currentdict Adobe_cshow eq
{
    end
} if
} def
/cforall
{
    /_lobyte 0 ddef
    /_hibyte 0 ddef
    /_cproc exch ddef
    /_cscript currentfont /FontScript known { currentfont /FontScript get } {
-1 } ifelse ddef
    {
        /_lobyte exch ddef
        _hibyte 0 eq
        _cscript 1 eq
        _lobyte 129 ge _lobyte 159 le and
    }

```

```

        _lobyte 224 ge _lobyte 252 le and or and
        _cscript 2 eq
        _lobyte 161 ge _lobyte 254 le and and
        _cscript 3 eq
        _lobyte 161 ge _lobyte 254 le and and
    _cscript 25 eq
        _lobyte 161 ge _lobyte 254 le and and
    _cscript -1 eq
        or or or or and
        {
            /_hibyte _lobyte ddef
        }
        {
            _hibyte 256 mul _lobyte add
            _cproc
            /_hibyte 0 ddef
        } ifelse
    } forall
} def
/cstring
{
    dup 256 lt
    {
        (s) dup 0 4 3 roll put
    }
    {
        dup 256 idiv exch 256 mod
        (hl) dup dup 0 6 5 roll put 1 4 3 roll put
    } ifelse
} def
/clength
{
    0 exch
    { 256 lt { 1 } { 2 } ifelse add } cforall
} def
/hawidthshow
{
    {
        dup cstring
        show
        _hvax _hvay rmoveto
        _hwb eq { _hvcx _hvcy rmoveto } if
    } cforall
} def
/vawidthshow
{
    {
        dup 255 le
        _charorientation 1 eq
        and
        {
            -90 rotate
            0 _fontRotateAdjust rmoveto
            cstring
            _hvcx _hvcy _hwb _hvax _hvay 6 -1 roll awidthshow
            0 _fontRotateAdjust neg rmoveto
            90 rotate
        }
        {
            currentpoint
            _fontHeight sub
        }
    }
}

```

```

        exch _hvay sub exch _hvax sub
        2 index _hvw b eq { exch _hvcy sub exch _hvcx sub } if
        3 2 roll
        cstring
        dup stringwidth pop 2 div neg _fontAscent neg rmoveto
        show
        moveto
    } ifelse
} cforall
} def
/hvawidthshow
{
    6 1 roll
    /_hvay exch ddef
    /_hvax exch ddef
    /_hvw b exch ddef
    /_hvcy exch ddef
    /_hvcx exch ddef
    _lineorientation 0 eq { hawidthshow } { vawidthshow } ifelse
} def
/hvwidthshow
{
    0 0 3 -1 roll hvawidthshow
} def
/hvashow
{
    0 0 0 6 -3 roll hvawidthshow
} def
/hvshow
{
    0 0 0 0 0 6 -1 roll hvawidthshow
} def
currentdict readonly pop end
setpacking
%%EndResource
%%EndProlog
%%BeginSetup
userdict /_useSmoothShade true put
Adobe_level2_AI5 /initialize get exec
Adobe_cshow /initialize get exec
Adobe_Illustrator_AI5_vars Adobe_Illustrator_AI5 AGM_Gradient /initializeAI get
exec
Adobe_ColorImage_AI6 /initialize get exec
Adobe_Illustrator_AI5 /initialize get exec
%AI5_Begin_NonPrinting
Np
1 Bn
%AI5_BeginGradient: (Unnamed gradient 1)
(Unnamed gradient 1) 0 2 Bd
[
<
FFFEFD FCFBFAF9F8F7F6F5F4F3F2F1F0E FEEDECEBEAE9E8E7E6E5E4E3E2E1E0DFDEDDDCDBDAD9D8
D7D6D5D4D3D2D1D0CFCECDCCCBCAC9C8C7C6C5C4C3C2C1C0BFBEBDBCBAB9B8B7B6B5B4B3B2B1B0
AFAEADACABAAA9A8A7A6A5A4A3A2A1A09F9E9D9C9B9A999897969594939291908F8E8D8C8B8A8988
87868584838281807F7E7D7C7B7A797877767574737271706F6E6D6C6B6A69686766656463626160
5F5E5D5C5B5A595857565554535251504F4E4D4C4B4A494847464544434241403F3E3D3C3B3A3938
37363534333231302F2E2D2C2B2A292827262524232221201F1E1D1C1B1A19181716151413121110
0F0E0D0C0B0A09080706050403020100
>
0 %_Br
[

```

```
0 0 50 100 %_Bs
1 0 50 0 %_Bs
BD
%AI5_EndGradient
%AI5_End_NonPrinting--
%AI5_BeginPalette
0 0 Pb
1 1 1 1 k
([Registration]) Pc
1 1 1 1 k
([Registration]) Pc
([Registration]) Pc
([Registration]) Pc
([Registration]) Pc
([Registration]) Pc
([Registration]) Pc
([Registration]) Pc
0 0 0 0 k
(C=0 M=0 Y=0 K=0) Pc
0 0 0 1 k
(C=0 M=0 Y=0 K=100) Pc
PB
%AI5_EndPalette
%%EndSetup
%AI5_BeginLayer
1 1 1 1 0 0 0 79 128 255 Lb
(Layer 1) Ln
0 A
0 0
0 0 0 1 k
0 J 0 j 1 w 4 M []0 d
0 XR
37.9021 694.1587 m
35.835 694.1587 34.991 695.6238 36.0237 697.4133 c
69.8486 756 l
70.8794 757.7896 72.5708 757.7896 73.6033 756 c
107.4297 697.4133 l
108.4609 695.6238 107.6172 694.1587 105.5518 694.1587 c
37.9021 694.1587 l
f
1 Ap
0 0 0 0 k
83.9766 717.25 m
83.9766 710.4844 78.4917 705 71.7263 705 c
64.9609 705 59.4763 710.4844 59.4763 717.25 c
59.4763 724.0156 64.9609 729.5 71.7263 729.5 c
78.4917 729.5 83.9766 724.0156 83.9766 717.25 c
f
LB
%AI5_EndLayer--
%%PageTrailer
gsave annotatepage grestore showpage
%%Trailer
Adobe_Illustrator_AI5 /terminate get exec
Adobe_ColorImage_AI6 /terminate get exec
AGM_Gradient /terminate get exec
Adobe_cshow /terminate get exec
Adobe_level2_AI5 /terminate get exec
%%EOF
```

[illegible]

[illegible]

AdÃnt,J,J€}À™ÁXü_l?ýnn,w,MÀ™ÁXü_l?ý
?ý,dV5w€}†ªjª`Release
\$QÂ
™Ánw,H\$QÂ
™Á,1,X,k,Z ŠìÀRìÍ

[illegible]

2ffÁ·ü\ÀRİfıï□□□□ñE□□f□,+,}□□□²ffÁ·ü\ÀRİfıï□□□□□□□□□□□□□□□□f□q□□□□W?□†aaŠ™Ä□□□
`□
€Jäİ¹™™ÄXü_ÄD□□□□?ÿ□□□n□□□, W, I, N□□□Äİ¹™™ÄXü_ÄD□□□□?ÿ□?ÿ□□, dV□5□W€~□†aa%jªa□□□ `

Modification
€JÄ□¹™™Äh<^l□?ÿ□□□n' □□, W, M, O□□□Ä□¹™™Äh<^l□?ÿ□?ÿ□□, dV□6□W€□□†aa%jªa□□□ `

12.2(33)SRB

€}Àí^{TMTM}Áh<^ÁD□□□?ÿ□□□n“□□,w,N□□□□Àí^{TMTM}Áh<^ÁD□□□?ÿ□?ÿ□□, dV□6□W□□□†^{a a%}j^a□□□`□This
command was introduced.

€}À^{TMTM}Â[%]□l□?ÿ□□□næ□

,w□,Q□□□À^{TMTM}Â[%]□l□?ÿ□?ÿ□□Ž□W□7□W□□□†^{a a%}j^a□□□`□Command

€}Àí^{TMTM}Â[%]□ÁD□□□?ÿ□□□nž□

,W,P,R□□□Àí^{TMTM}Â[%]□ÁD□□□?ÿ□?ÿ□□Ž□W□7□W□□□†^{a a%}j^a□□□`

Description

€}À^{TMTM}Â-É£l>?p□□□□ □
,W,Q,S□□□À^{TMTM}Â-É£l>?p□?ÿ□□Ž□W□8□W□ †^{a a%}j^a□□□`□l2 vfi autodiscovery
€}Á^{TMTM}Â-É£ÁD□□>?p□□□□¢□
,W,R,T□□□Á^{TMTM}Â-É£ÁD□□>?p□?p□□Ž□W□8□□□
□†^{a a%}j^a□□□ KEnables the VPLS PE router to automatically discover other PE
routers that P•j©□□□@ "are part of the same VPLS domain.
€}À^{TMTM}Â: i l□?ÿ□□□□□□,W,S,U□□□À^{TMTM}Â: i l□?ÿ□?ÿ□□Ž□W□9□W□
†^{a a%}j^a□□□`□route-target (VPLS)
€}Á^{TMTM}Â: i ÁD□□□?ÿ□□□□!□□,W,T□□□□Á^{TMTM}Â: i ÁD□□□?ÿ□?ÿ□□Ž□W□9□W□

`rt=aa.jaa`` Specifies an RT for a VPLS VFI.

□□Âd□□Ã□□□□□□n⁻□□□□□□□□□□,X,X□□□□□□□□□□

AdÃnÅ, l, l²ffQÂ
TMTMÂ²n², V²ffQÂ
TMTMÂ, J, l9, ŠììÀRìí

[illegible]

À™™™ÂU†AÁ°Àzyçîm,H8À™™™ÂU†AÁ°Àzyç²ï,JS€f†^aaŠ™Ä
`The following example enables CHAP-style authentication for L2TPv3
pseudowires configured using -™Ä@the L2TP class configuration named l2tp
class1:
€gB...UT!Dl`1Router(config)ï#
l2tp-class l2tp-class1
Q€h°Dj`4Router(config-l2tp-class)ï#
authentication

ÀÿÿÂ\$ëmÁ°À«“ñFf,ÀÿÿÂ\$ëmÁ°À«“ÀiüfotC†aaš™
Ä bThe following partial example shows how to configure a primary and backup
X.25 interface for dual -™Ä@;serial line management of the Lucent 5ESS
switch in a DCN:

```

D(...UT!Dl`interface serial 1/0
E°Dj`description SCC0
F`$ backup active interface serial 1/1
G`encapsulation x25 dce
H`x25 address 66666666
I`
  x25 ltc 8
J`
  x25 ips 256
K`
  x25 ops 256
L`clockrate 9600
M`!
N`interface serial 1/1
O`description SCC1
P`encapsulation x25 dce
AQ`x25 address 66666666
```

ÀTMÀ÷iÁ°TMiñ#TM,w,Y,^ÀTMÀ÷iÁ°TMiTMi, l\€z†^aŠTMÄTM
_The VPLS Autodiscovery feature automatically generates an RT, so you do not
need to enter this P-TMÄTM@)command when you configure the feature.

À^{TMTM}ÀáîÁ°ÁîøñP*f*
*f*SÀ^{TMTM}ÀáîÁ°Áîøšýp*f*
x`†aa†aa`
Qa^a@`

[illegible]

²ffQÂ

TM™ñ\ff.f. ,a²ffQÂ

TM™ff0yW€Y

h4_ backup d`elay (L2VP`a N local switching)

ÀTMÁ-Þ-Á°TMïTMñ'w,^,cÀTMÁ-Þ-
Á°TMïTMl^w€|†^{aa}ŠTMÄ`L2 VFI configuration

ÀÿÿpÁ°·ÿüñ]f.,_fRÀÿÿpÁ°·ÿü·ÿüf0z€Z†aa†aa cTo
specify how long a backup pseudowire virtual circuit (VC) should wait before
resuming operation 0'a@after the primary pseudowire VC goes down, use the
Íbackup delay ß command in interface configuration @@%mode or
xconnect configuration mode.
S€['a§[backup delay ß ß Íenable-delay ß {Ídisable-
delay ß ß|Í ß ß Ñnever ß}

™ŠÛ¼aHŠíÁŒZ€`

‘
“ŒDÀÁ&PÁŒŠí‡ÿp, !W5"...UT...UTlÀâMarch 2011Àă

[illegible]

\$ÁXü_Â

TMTMžpñ* ,w,c,g\$ÁXü_Â

TMTMžpžp

□□,I,O,l`□□□,I,N□□□

²ffQÂ

™™™ÀkøéÍ„)f-²ffQÂ

™™™ÀkøÀkøfwfz„+€-fwfy

\$QÂ

TMTM□□□□î{□□, w□□p□□□\$QÂ

TMTM□□□□□□□□□□□□, lW□□□□□W€s□

hauto-ÀTroute-ÀUtarget

[illegible]

ÀTMÁ | .öÁ°ÁÑ
ööö

f3,,!À™Á|.öÁ°ÁŠŇ
 %ÿf5€W,†aa†aa`

[illegible]

ÀÿÿÁÍ<YÁ°ÁÃ§éa,) -ÀÿÿÁÍ<YÁ°ÁÃ§ÀÆi
 ,1P€.†^aŠ™Ä eTwo methods of control channel authentication
 are available in Cisco IOS Release 12.0(29)S and later 0-™Ä releases. The
 L2TPv3 Control Message Hashing feature (enabled with the `ídigest`
`command`) introduces a more robust authentication method than the
 older CHAP-style method of authentication enabled with the `í`
`authentication` `command`. You may choose to enable both methods
 of authentication to ensure interoperability with peers that support only
 one of these methods of authentication, but this configuration will yield
 control of which authentication method is used to the peer PE router. Enabling
 both methods of authentication should be considered an interim solution to
 solve backward-compatibility issues during software upgrades.
 €/TM4(yÄ
 Table 1 shows a compatibility matrix for the different L2TPv3
 authentication methods. PE1 is running pA{™»_a Cisco IOS software release
 that supports the L2TPv3 Control Message Hashing feature, and the different
 possible authentication configurations for PE1 are shown in the first column.
 Each remaining column represents PE2 running software with different
 available authentication options, and the intersections indicate the
 different compatible configuration options for PE2. If any PE1/PE2
 authentication configuration poses ambiguity on which method of
 authentication will be used, the winning authentication method is indicated
 in bold. If both the old and new authentication methods are enabled on PE1
 and PE2, both types of authentication will occur.

\$QÂ
TM TM Àè†A□□□éd□□, H□□8□□□\$QÂ
TM TM Áè†AÁè†A□□□□□□□

□□€k□
, JQ□□□□□W€d&,,^{aa},^{aa}□□@h□□□□ÀN□
□\$QÂ
^{TMTM}Â□□□□□□□□nÈ□□, w□□□□□□\$QÂ
^{TMTM}Â□□□□, Xf□, fŽ□ □□□□□□□□ŠììÀRìí□□□□€}ÀüÿÿÀÛ/□l□?ÿ□□□□nÓ□
f□□, n□□□□ÀüÿÿÀÛ/□l□?ÿ□?ÿ□□□□€?Z□:□w□□
†^{aa}‰j^a□□□□`□X.25-interface number
€}ÀüÿÿÀÛ/□ÁD&h□?ÿ□□□□nÕ□
f□, m□□□□□ÀüÿÿÀÛ/□ÁD&h□?ÿ□?ÿ□□□□€?Z□:□w□□□†^{aa}‰j^a□□□□`4X.25 interface type and number,
such as serial 1/3.
€}ÀüÿÿÁ[|^l□?ÿ□□□□Y□□f□□, p□□□□ÀüÿÿÁ[|^l□?ÿ□?ÿ□□□, +[□;□w□:□†^{aa}‰j^a□□□□`□Release
€}ÀüÿÿÁ[|^ÁFfh□?ÿ□□□□nß□□f□, o, q□□□□ÀüÿÿÁ[|^ÁFfh□?ÿ□?ÿ□□□, +[□;□w□;□†^{aa}‰j^a□□□□`
Modification
€}ÀüÿÿÁj¼]l□?ÿ□□□□ná□□f□, p, r□□□□ÀüÿÿÁj¼]l□?ÿ□?ÿ□□□, +[□<□w□<□†^{aa}‰j^a□□□□`
12.2(13)T
€}ÀüÿÿÁj¼]ÁFfh□?ÿ□□□□ñ□□f□, q□□□□ÀüÿÿÁj¼]ÁFfh□?ÿ□?ÿ□□□, +[□<□w□=□†^{aa}‰j^a□□□□`□This
command was introduced.
€}À^{TMTM}Â²/
l□?ÿ□□□□□□
f
□, t□□□□À^{TMTM}Â²/
l□?ÿ□?ÿ□□fS\□=□w□Y□†^{aa}‰j^a□□□□`□Command
€}Àí^{TMTM}Â²/
Á@fg□?ÿ□□□□□□
f
, s, u□□□□Àí^{TMTM}Â²/
Á@fg□?ÿ□?ÿ□□fS\□=□w□Z□†^{aa}‰j^a□□□□`

Description

€}À^{TMTM}ÀÁo

l[?]ÿ[?]o[?]o[?]o[?]

f

,t,v[?]o[?]o[?]À^{TMTM}ÀÁo

l[?]ÿ[?]o[?]ÿ[?]o[?]fS\o>oW[:†^aa%j^ao[?]o[?]o[?]`

debug backup

€}À^{TMTM}ÀÁo

Á@fg[?]o[?]ÿ[?]o[?]o[?]o[?]

f

,u,w[?]o[?]o[?]À^{TMTM}ÀÁo

Á@fg[?]o[?]ÿ[?]o[?]ÿ[?]o[?]fS\o>oW\o†^aa%j^ao[?]o[?]o[?]`FMonitors the transitions of an interface going down and then back up.

€}À^{TMTM}ÀÐ⁻ l[?]ÿ[?]o[?]o[?]o[?]o[?] □

f

,v,x[?]o[?]o[?]o[?]À^{TMTM}ÀÐ⁻ l[?]ÿ[?]o[?]ÿ[?]o[?]fS\o?oW]:†^aa%j^ao[?]o[?]o[?]`

show backup

€}Àí™™™ÀÐ Á@fg?ÿooo

□

f

,woooÀí™™™ÀÐ Á@fg?ÿ?ÿoofS\?w^†ª%ja`"Displays interface backup
status.

À°™™Á“|]Á°°¥i°°°°ñ-

°°,w,gZ°°°°À°™™Á“|]Á°°¥i°¥i°°°°°°°°°°°°,lb°°°°°°°°°°°°†aaš™Ä°°° oThis command works with the °° Í°l2 vfi autodiscovery°° °° command, which automatically creates route targets. p-™Ä°°°°°°lThe °° Ê°no°° °° version of the command allows you to remove the automatically generated route targets. You °°°@Ucannot enter this command if route targets have not been automatically created yet.

²ffÁVï

ÀRÌÍïïïïñ_ïï*f*.*fcf*ïïïï²ffÁVï

[illegible]

ÀÿŸÁ0^,Á°íîf,K,|ÀÿŸÁ0^,Á°íîïfñw9†ªŠÄ
`Interface configuration

[illegible]

A0ÿÿÁ·ü\Á° **Äri** **f**, **L**, **ÀÿÿÁ·ü\Á°** **ÄriÄri** **B** **command** is available only on serial interfaces configured for the X.25 **0-™Ä** **bprotocol**. Use this command to activate dual serial lines (a primary and a backup) to maintain the **dredundancy** and monitoring capability available from the SCC0 and SCC1 links on a Lucent 5ESS switch **[in a telco data communication network (DCN). The DCN provides telco service providers with @4communications for network management applications.**

AAK™, **j**This configuration requires that both serial interfaces be on the same Cisco router. Once the **Íbackup** **ÀW™¼** **nactive interface** **B** **command** is configured, the router will bring up leads on the backup X.25 interface, but **b** **will ignore Set Asynchronous Balanced Mode (SABM)** messages from the Lucent 5ESS switch until the **@primary** interface fails.

\$QÂ
TM TM □□□□ñõ□□„C□f

h+bÄyridgÄze-domain (service instance)

[illegible]

²ffQÂ

TMTM□□□□ñ~□□fZ□f□□□□²ffQÂ

TMTM□□□□□□□□□□□□f\€ □□□□W,□□

lback^up pAcceer

²ffQÂ

TM™□□□□èè□□f□□f□□□□²ffQÂ

TM™□□□□□□□□□□□□f□g□□□□□W□

h"backup AXactive AYinterface

ÀÿÿpÁ°ÀMÿûëéff,&ÀÿÿpÁ°ÀMÿûÀMÿûfhh†aa†aa
lTo activate primary and backup lines on specific X.25 interfaces, use the
Íbackup active interface ß 0'a@command in interface
configuration mode. To disable active backup behavior on the X.25 interface, use
@'the pno ß form of this command.
`a\$`3backup active interface ÎX.25-interface number
C`no Íbackup active interface ÎX.25-interface number

À□ÿÿÁVİ

Á°[™]ĩñaf.,zf ÀÿÿÁVĩ

Á°□□™i□™i□□□□□□□□□□f0~□□□□□□h□†aaŠ™Ä□□□ hIf a failover occurs, the xconnect
redundancy algorithm will immediately switchover or fall back to the P-
™Ä□□□@2backup or primary member in the redundancy group.
€}ÀûÿÿÁE□AÁD□□□?ÿ□□□Ò0□□,,)f□f{□□□ÀûÿÿÁE□AÁD□□□?ÿ□?ÿ□□,,Hm□a□W,o□†aa%ja□□□`
Modification

AdÃo%ff

ÀÿÿpÁ°ÀMÿûñfZf,,.ÀÿÿpÁ°ÀMÿûÀMÿûf\€
,†aa†aa%lTo specify a redundant peer for a pseudowire virtual circuit
(VC), use the backup peer command in 0'a@pinterface
configuration mode or xconnect configuration mode. To remove the redundant peer,
use the pno command in Eform of this command.
, ^asbackup peer peer ippeer-router-ip-addr vcid [peer Ñp
Ñw-class peer ippw-class-name [ip ipriority peer
value peer]
A,e8no backup peer peer ippeer-router-ip-addr vcid peer
^2ffQÂ
TMTMÂo(f^2ffQÂ
TMTMÂ,l f
f,[ŠiìÀRìí

```

2ffÁĈP$ÀRÌííiñcfff.f"2ffÁĈP$ÀRÌííiíiif0Wí†aašTÄ
`
€}ÀTMTMÄÛ/Ä†yyyõ-†…XÄTMTMÄÛ/Ä†yy?y…C€€W,,r
†aa%jaaname

```

□□Âd□□Ã□□□□□□o-□□□□□□□□□f

f

□□□□□□□□□

À^{TMTM}pÁ°Àžöñö„C,~„gÀ^{TMTM}pÁ°ÀžöÀžö
„b€Bf5†^a†^a hTo bind a service instance or a MAC tunnel to
a bridge domain instance, use the Í bridge-domain p 0'^a@bcommand
in either service instance configuration mode or MAC-in-MAC tunnel configuration
mode. To iunbind a service instance or MAC tunnel from a bridge domain
instance, use the Êno ß form of this @ command.
f6 À^a!`abridge-domain

```

❏ ❏   óbridge-id❏   ❏ [❏   Ñsplit-horizon ❏   ❏[❏ Ñgroup ❏
        îgroup-id❏   ❏]]
❏f7❏❏❏`_no bridge-domain ❏   îbridge-id ❏   ❏[❏ Ñsplit-horizon ❏
        ❏[❏ Ñgroup ❏   îgroup-id❏   ❏]]
❏f8+†UTÄoUN❏❏❏,$Syntax on the Cisco ASR 1000 Router
❏f9   †aaÄ... *¢❏❏❏`Ubridge-domain❏❏

```

```

0 0 6bridge-id  B [  Nsplit-horizon group  Igroup-id
B]
Qf:À*`i[ Sno bridge-domain  Ibridge-id  B[Nsplit-horizon
group  Igroup-id  B]
$QÂ
TMTMÂoof
$QÂ
TMTMÂffof$,]  ŠiîARif€}ÀÿÿAA/ls?ýô!
f.fAÿÿAA/ls?ý?ýfcba@wE\
†aa%jaa
enable-delay
€}AÿÿAA/AdS?ýô"
f.f

```


fÀÛÿÿÄÄ/ÁD\$?ý\$?ýfcb@€]†ªjª!HNumber of seconds that elapse
after the primary pseudowire VC goes down p•j@Ibefore the Cisco IOS
software activates the secondary pseudowire VC. The A2range is from 0 to 180
seconds. The default is 0.
€}ÀÛÿÿÄìl\$?ýâªf.ffÀÛÿÿÄìl\$?ý?ÿfcbAWb
†ªjªª

disable-delay

€}ÀüÿÿÀioÁDSS?ýô-ff.fÀüÿÿÀioÁDSS?ýS?ýfcbAccc†ªa!GNumber of seconds that elapse after the primary pseudowire VC comes up p•j©Gbefore the Cisco IOS software deactivates the secondary pseudowire VC. A6The range is from 0 to 180 seconds. The default is 0.

€}ÀüÿÿÁlS?ýô@

f.fÀüÿÿÁlS?ý?ýfcbBwD

†ªaªaªnever

€}ÀüÿÿÁÁDSS?ýô°

f.fÀüÿÿÁÁDSS?ýS?ýfcbBccc†ªaªa!RSpecifies that the s

Bsecondary pseudowire VC will not fall back to the primary p•j©Cpseudowire VC if the primary pseudowire VC becomes available again A*unless the secondary pseudowire VC fails.

€}ÀüÿÿÁüUll?ýô,ff.fÀüÿÿÁüUll?ý?ýf&xCwkl†ªaªaªRelease

€}ÀüÿÿÁüUÁDSS?ýô°ff.fÀüÿÿÁüUÁDSS?ý?ýf&xCwll†ªaªaªa Modification

€}ÀüÿÿÁÓ<Tll?ýô¼ff.fÀüÿÿÁÓ<Tll?ý?ýf&xDwml†ªaªaªa

12.0(31)S

€}ÀüÿÿÁÓ<TÁDSS?ýô¼ff.fÀüÿÿÁÓ<TÁDSS?ý?ýf&xDwnl†ªaªaªaThis command was introduced.

€}ÀüÿÿÁâ|Sll?ýôÀff.fÀüÿÿÁâ|Sll?ý?ýf&xEwoll†ªaªaªa

12.2(28)SB

€}ÀüÿÿÁâ|SÁDSS?ýôÂff.fÀüÿÿÁâ|SÁDSS?ý?ýf&xEwoll†ªaªaªa?This command was integrated into Cisco IOS Release 12.2(28)SB.

€}ÀüÿÿÁñ¼Rll?ýôÄff.fÀüÿÿÁñ¼Rll?ý?ýf&xFwql†ªaªaªa

12.4(11)T

€}ÀüÿÿÁñ¼RÁDSS?ýôÆff.fÀüÿÿÁñ¼RÁDSS?ý?ýf&xFwoll†ªaªaªa>This command was integrated into Cisco IOS Release 12.4(11)T.

€}ÀüÿÿÁüQll?ýôËff.fÀüÿÿÁüQll?ý?ýf&xGwoll†ªaªaªa

12.2(33)SRB

€}ÀüÿÿÂüQÁD??ÿôÊf.f-f-ÀüÿÿÂüQÁD??ÿ?ÿf&xGWt†ªjªa@This
command was integrated into Cisco IOS Release 12.2(33)SRB.
€}ÀüÿÿÂ<Pl?ÿôÏf.f-f-ÀüÿÿÂ<Pl?ÿ?ÿf&xHWu†ªjªa

12.2(33)SXI

€}ÀüÿÿÂ<PÁD???ÿ???ôÎ??f.f-f ???ÀüÿÿÂ<PÁD???ÿ?ÿ??f&xHwv†ªªja???a@This
command was integrated into Cisco IOS Release 12.2(33)SXI.

€}ÀüÿÿÂ|Ol>?p???ôĐ??f.ff!???ÀüÿÿÂ|Ol>?p>?p??f&xI???w†ªªja???!

Cisco IOS XE P•j@???ARelease 3.?? ß3S

€}ÀüÿÿÂ|OÁD??>?p???ôĐ??f.f ‡@???ÀüÿÿÂ|OÁD??>?p?ÿ??f&xIwxx†ªªja???a@This
command was integr??? ßated into Cisco IOS XE Release 3.3S.

ÀÿÿÁ£\$°™iñe.f.f
f%ÀÿÿÁ£\$°™i™i f0€j†^{aa}Š™Ä \$Interface
configuration (config-if) P-™Ä@)Xconnect configuration (config-if-xconn)

²ffÁo
ÀRÌÍiñfZ,,/f*²ffÁo
ÀRÌÍii f\€
w, †ªŠÄa

ÀTMQÁ°ÀCÿòî-*f*
fQÀTMQÁ°ÀCÿòÀCÿòf
uR(...UT...UT`
x25 ltc 8
S^{UR}`
x25 ips 256
T`
x25 ops 256
U` clockrate 9600
V`.
W`.
AX`.

[illegible]

²ffÁÃüUÂ

™™™À...ÿ÷□□□ñh□□f.f%f'□□□²ffÁÃüUÂ

™™™À...ÿ÷À...ÿ÷□□□□□□□□□f□^□fθ€□□□□f□f□f□f□f□f-f‡@□□□

[illegible]

ÀTMÂVñÁ°Àyâñ>f_„6ÀTMÂVñÁ°Àyâ%ÿÿfa€wŽ†aa†a
a`

ÀÿÿÄeüLÁ°Àj'ñkff.f'ÀÿÿÄeüLÁ°Àj'Àfï
f0€}†^{aa}Š™Ä _The following example shows a
Multiprotocol Label Switching (MPLS) xconnect with one redundant 0-™Ägpeer.
When a switchover to the secondary VC occurs, there will be no fallback to the
primary VC unless @the secondary VC fails.
~(...UT²Dk`+Router(config)#

```
□pseudowire-class mpls
□□□%Di□□□`1Router(config-pw-class)#□□□
```

```
encapsulation mpls
, <Router(config)#
```

```
connect frpw1 serial0/1 50 l2transport
,;Router(config-if)#
```

```
xconnect 10.0.0.1 50 pw-class mpls
,6Router(config-if-xconn)#
```



```
□backup peer 10.0.0.2 50
A,□□□□`3Router(config-if-xconn)#□□□
```

☐ backup delay 0 never

ÀÿÿÁo
Á°iñffZf#f,ÀÿÿÁo
Á°ii f\€

□□□□w,!□†^aŠ[™]Ä□□□a"No redundant peer is established.

²ffQÂ

TMTM%£ñ¥„„0²ffQÂ

TMTM%£%£„„€„I

h bAhfe

W,J†^{aa}.M½`iEffective with Cisco IOS Release 12.2, the
command is not available in Cisco IOS Software.

Ñbfe

ß

²ffÁ©^#ÀRÌÍïïïïñ...fZf*f/²ffÁ©^#ÀRÌÍïïïïïïïïïïïf\€ïïïïïW,"†ªŠ™Ä
a

[illegible]

□□Âd□□Ã□□□□□□o'□□□□□□□□□f0f0□□□□□□□□□

ÀöÿÁ©^#Á°iñ‡fZf,f2ÀöÿÁ©^#Á°i i f\€ ,#†aaŠÄ
!\$Interface configuration (config-if) P-Ã(A)Xconnect configuration
(config-if-xconn)
²ffQÂ
TMÄo•ff.²ffQÂ
TMÄf
f5,-f) ŠìÀRìÍ

²f f Á... Ò-À RÌ Í i n š „ „ Q f P ²f f Á... Ò-À RÌ Í i i w š ħ †^a ā Š^m Ä ` €-

²ffÁßM;ÀRÌÍïïïïñ%ïfZf/fLïïï²ffÁßM;ÀRÌÍïïïïïïïïïïïïïïïf\€ïïïïïf@fBfDfFfHfJ^
Y%ïïf@fBfDfFfHfJ^Y%ïW,4ï†ªªŠ™Äïï@ïïïÄfï

Adošf5f5

ÀTMQÁ°ÀíPí-f3,,ÀTMQÁ°ÀíPÀíP5€,,†aa†aa

^The following example shows an MPLS xconnect with one redundant peer. The switchover will not 0'a@`begin unless the Layer 2 Tunnel Protocol (L2TP) pseudowire has been down for 3 seconds. After a eswitchover to the secondary VC occurs, there will be no fallback to the primary until the primary VC @1has been reestablished and is up for 10 seconds.
,(...UT°UP`+Router(config)#

```
␣pseudowire-class mpls
␣,␣ADUN␣␣␣`1Router(config-pw-class)#␣␣␣
```



```
encapsulation mpls
, <Router(config)#
```

```
connect frpw1 serial0/1 50 l2transport
,      ;Router(config-if)#
```

```
xconnect 10.0.0.1 50 pw-class mpls
,
6Router(config-if-xconn)#
```

```
□backup peer 10.0.0.2 50
```

```
□,
```

```
□□□`0Router(config-if-xconn)#□□□
```

□backup delay 3 10
□,

□□□□
□,

+†UTÀŽUB□□□h!□□Àf□Cisco CMTS Routers: Example

□,□□†^{aa}À□*-□□□ cThe following example sets a 2-second delay before resuming operation after the primary pseudowire □À©*•□□□@

VC goes down.

```
□<#(...UTÀ,Õ>□□□`□cable l2vpn 0011.0011.0011
□Ž□ÂÂÕ<□□□`□ service instance 1 ethernet
□Ž□□□□`□ encapsulation default
□Ž□□□□`+ xconnect 10.2.2.2 22 encapsulation mpls
□Ž□□□□`□ backup delay 1 2
AŽ□□□□`□
□$QÂ
TMTMÂ□□□□□□□□□f3□□□□□$QÂ
TMTMÂ□□□□f0f\4,h □□□□□□□ŠÌÀRÌÍ□□□□€}ÀüÿÿÀÛ/□l?ÿ□□□□ō□□
fZf7f8□□□□ÀüÿÿÀÛ/□l?ÿ□?ÿ□□□□/e□J□W,□
†ªªjª□□□□□peer-router-ip-addr
€}ÀüÿÿÀÛ/□Á□□□□?ÿ□□□□ō□□
fZf6f8□□□□ÀüÿÿÀÛ/□Á□□□□?ÿ□?ÿ□□□□/e□J□W,□□†ªªjª□□□□□IP address of the remote peer.
€}ÀüÿÿÀê□l?>?p□□□□ō□□□fZf7f9□□□□ÀüÿÿÀê□l?>?p□?ÿ□□□□/e□K□W,□
†ªªjª□□□□□vcid
€}ÀüÿÿÀê□Á□□□>?p□□□□ō□□□fZf8f:□□□□ÀüÿÿÀê□Á□□□>?p>?p□□□□/e□K□□,□□†ªªjª□□□□!N3□□
    □2-bit identifier of the VC between the routers at each end of the layer
P•j©□□□□□control channel.
€}ÀüÿÿÁ□□l?>?p□□□□ō□□
fZf9f;□□□□ÀüÿÿÁ□□l?>?p□?ÿ□□□□/e□L□W,□
†ªªjª□□□□□pw-class
€}ÀüÿÿÁ□□Á□□□>?p□□□□ō□□
fZf:f<□□□□ÀüÿÿÁ□□Á□□□>?p>?p□□□□/e□L□□,□□†ªªjª□□□□!U(Optional) □□ □□ Specifies
the ps□□ □□ pseudowire type. If not specified, the pseudowire P•j©□□□□□, type is
inherited from the parent xconnect.
€}ÀüÿÿÁ i□l?>?p□□□□ō!□□fZf;f=□□□□ÀüÿÿÁ i□l?>?p□?ÿ□□□□/e□M□W,□
†ªªjª□□□□□
```


pw-class-name

€}ÀûÿÿÁ ïÁD>?p#fZf<f>ÀûÿÿÁ

ïÁD>?p>?p//eM,†^aaj^a!G(Optional) Name of the pseudowire you created when you established the P•j©A pseudowire class.

€}ÀûÿÿÁ</

l\$?ý%#fZf=f?ÀûÿÿÁ</

l\$?ý?ý//eNw,†^aaj^aa priority

value

€}ÀûÿÿÁ</

ÁD\$?ý%#fZf>ÀûÿÿÁ</

ÁD\$?ý\$?ý//eN,-†^aaj^a!R(Optional) Specifies the priority of the backup pseudowire in instances p•j©R where multiple backup pseudowires exist. The default is 1. The range is from 1 to 100.

€}ÀûÿÿÁà|Tà|€?ý%#fZfAÀûÿÿÁà|Tà|€?ý?ýfLf0w,\$†^aaj^aaRelease
€}Á

€Áà|TÁ3ý?ÿö1fZf@fBÁ

€À|TÁ3ý?ý?ýfLfOw,%†ª%ja

Modification

€}ÀÿÿÁi¼SÀ|€?ýöö3fZfAfCÀÿÿÁi¼SÀ|€?ý?ýfLfPw,&†ª%ja

12.0(31)S

€}Á

€Áİ¼SÁ3ý?ÿööö5fZfBfDÁ

€Áî¼SÁ3ý?ý?ýfLfPw,'†ª%jaThis command was introduced.
€}ÀýýÁpùRÀ|€?ýõ7fZfCfEÀýýÁpùRÀ|€?ý?ýfLfQw,(†ª%ja
12.2(28)SB
€}Á

€ÁpüRÁ3ý?ÿö9fZfDfFÁ

€ÁpüRÁ3ý?ý?ýfLfQw,)†^a%j^a??a?This command was integrated into
CiscoIOS Release 12.2(28)SB.
€}ÀýÿÂ

<QÀ|€?ÿö;fZfEfGÀÿÿÂ

<QÀ|€?ÿ?ÿfLfRw,*†ªjª
12.4(11)T
€}Á

€ □ Â

<QÁ3ý?ÿö=ffZfFfHÁ

€ □ Â

<QÁ3ý?ÿ?ÿfLfRW,+†ªjª>This command was integrated into Cisco IOS
Release 12.4(11)T.
€}ÀÿÿÂ|PÀ|€?ÿ?ÿfLfSW,,†ªjª

12.2(33)SRB
€}Á

€Â|PÁ3ý?ÿöAfhfJÁ

€Â|PÁ3ý?ý?ýfLfSW,-†ªjªa@This command was integrated into Cisco
IOS Release12.2(33)SRB.
€}ÀÿÿÂ,¼0À|€?ý?ýfLfTW,.†ªjªa

12.2(33)SXI
€}Á

€Â,¼0Á3ý?ÿööEƒZfJ^YÁ

€Â,¼0Á3ý?ÿ?ÿfLfTW,/†ªjªa@This command was integrated into Cisco
IOS Release12.2(33)SXI.

²ffÁà|TÂ

TMTMÀ'ÿöñŠfZf2fM²ffÁà|TÂ

TMTMÀ'ÿöÀ'ÿöf@%7f\€f@fBfDfFfHfJ^Y%□□□□

[illegible]

ÀÿÿÁ°¥ïñÍ,,)„MfTÀÿÿÁ°¥ï¥ï,,+€1S†aaŠ™Ä
Frame Relay DLCI configuration p-™ÄInterface configuration @PVC
range configuration

ÀÿÿŽ|JÁ°ÀAf¶ñfZfMÀÿÿŽ|JÁ°ÀAf¶aïf\€6†aaŠ™
ÄapThe combination of the peer-router-ip-addr ß and ïvcid
ß arguments must be unique on the router.
,7>™Ä!bIn Cisco IOS XE Release 2.3, only one backup pseudowire is supported.
In Cisco IOS XE Release 2.4 PŠ™ÄACand later releases, up to three backup
pseudowires are supported.

ÀÿÿÁ...ò-Á°ïïïïñ©,,f1fUÀÿÿÁ...ò-Á°ïïïïïïïïïïïïïï,,€
ïïïïwŠI†^{aa}Š™Äïïï`None

[illegible]

²ffÄÿüÀRÌÍïé—f.,afc²ffÄÿüÀRÌÍïïfθ{f

$f \square f \square \square f$

f f w f †^{a a} Š Ä @ h À b

\$\hat{A}^2/\$

$\hat{A}$

$\text{TMTM}-\zeta\dot{y}\square\square\square\square\acute{e}\square\square\square f$

$fQ,]\square\square\square\hat{A}^2/$$

$\hat{A}$

$\text{TMTM}-\zeta\dot{y}-\zeta\dot{y}\square\square\square\square\square\square\square\square\square,s,xf$

$w\square\square\square,s,u,w\square\square\square$

[illegible] $f \square f \{f\} f \square \square \square \square \square \square$

Wf□□†^aŠTMÄ□□@h□□□Àm□

²ffÁ⁻Á7ÀRÌÍïïïïïñ«ïï,,ïPfXïïï²ffÁ⁻Á7ÀRÌÍïïïïïïïïïïïïïïï,,ï€!ïïïïïwŠJï†ªŠ™Äïï
ï`ï

ÀTMQÁ°TMÁEÿèTMñÕTM„1fbTMÀTMQÁ°TMÁEÿèTMÁEÿèTM„3€6TMfTM†aa†aaTM
bThe Cisco 7600 router can transmit BPDUs with a PID of either 0x00-0E or 0x00-07. When the router 0^a@TMconnects to a device that is fully compliant with RFC 1483 Appendix B, in which the IEEE BPDUs are TMsent and received by the other device using a PID of 0x00-0E, you must not use the TM TMignore-bpdu-pid TM@ TM keyword.

TMf TM»^a!TM(sIf you do not enter tTMÀTMhe TM TMignore-bpdu-pidTM TM TM keyword, the PVC between the devices operates in compliance 0À^a¥TMwith RFC 1483 Appendix B. This is referred to as TM

TMstrict modeTM TM TM. Entering the TM TMignore-bpdu-pidTM TM TM keyword TM@Ccreates TM

TMloose modeTM TM TM. Both modes are described as follows:

TMf À^a£TM fWithout the TM TMignore-bpdu-pid TM TM keyword, in strict mode, IEEE BPDUs are sent out using a PID of TMÀ^a¢TM@'0x00-0E, which complies with RFC1483.

TMf À^a¡TM bWith the TM TMignore-bpdu-pid TM TM keyword, in loose mode, IEEE BPDUs are sent out using a PID of TMÀ^a TM@70x00-07, which is normally reserved for RFC1483 data.

TMf

ÀŽªŸ Cisco proprietary PVST+ BPDUs are always sent out on data frames using a PID of 0x00-07, regardless of whether you enter the `ignore-bpdu-pid` keyword.

»ª Use the `ignore-bpdu-pid` keyword when connecting to devices such as ATM digital subscriber line (DSL) modems that send PVST (or 802.1D) BPDUs with a PID of 0x00-07.

f

`A0>aaa(mThe aa p-pvst-tlv aa B aaAp-keyword enables BPDU translation`
 when the router interoperates with devices that 0Ääš understand only PVST
 or IEEE Spanning Tree Protocol. Because the aaÄqCatalyst6500 series
 switchaaÄr ATM aaakmodules support PVST+ only, you must use the aa p-pvst-
 tlv aa B keyword when connecting to a Catalyst 5000 aaafamily switch that
 understands only PVST on its ATM modules, or when connecting with other Cisco
 aa@.IOS routers that understand IEEE format only.
`afÄa-a-aa k`When the router or switch is transmitting, the aa p-pvst-tlv aa
 B keyword translates PVST+ BPDUs into IEEE Äa•aa@BPDUs.
`afÄ6a"aa h`When the router or switch is receiving, the aa p-pvst-tlv aa B
 keyword translates IEEE BPDUs into PVST+ PÄB"a"aa@BPDUs.
`€}ÄTÄD/`
`l?ýaaÓiaaE, %PaaÄTÄD/`
`l?ýaaýaaE`
`aa)lW%\`
`†aa%jaaa`aaconnection-name`

User EXEC (>)

[illegible]

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TM™-¿ý-¿ý□□□□□□M□□Š:ŠV„□€\$□□□Š:ŠGŠU□□□

²f fÂ\$ŸfÀRÌÍïï□□□□ñ±□□„□f]„□□□²f fÂ\$ŸfÀRÌÍïïï□□□□□□□□□□□□□□„□€%□□□□WŠS□†^aš™Ä□□□□

AdÃp
fafa}ÀTMTMÄy/l>?p,p,
-fdÀTMTMÄy/l>?p?y„KlUw,P
†aa%ja`

vlan-id 3
\$QÂ
TMTMÂpff\$QÂ
TMTMÂf\"4f(ŠììÀRìí

\$ÁÿèÂ

TMTM«£ñÖ„1fV„\$ÁÿèÂ

TMTM«£«£„3€7f†^{aa}~M½ kThe pbridge-domain
ßand pbre-connectß commands are mutually exclusive. You
cannot use both P¼@Dcommands on the same PVC for concurrent RFC 1483 and
BRE bridging.

${}^2ff\mathbb{A}/\square\hat{A}$
 $\overset{\text{TMTM}}{\mathbb{A}u\zeta}\div\square\square\square\acute{e}\sim\square\square f.fR,z\square\square\square{}^2ff\mathbb{A}/\square\hat{A}$
 $\overset{\text{TMTM}}{\mathbb{A}u\zeta}\div\mathbb{A}u\zeta\div\square\square\square\square\square\square\square\square f$

$$f \square f \mathbf{0} | \square \square \square f$$

```

f{f{€}ÀTMÄ/□Á□□>?p□□p.□
„-f?fe□□□ÄTMÄ/□Á□□>?p>?p□□„KlU□□,Q†aaja□□□ LThe number of the VLAN to be
used in this bridging configuration. The valid P·j□□□□@range is from 2 to 4094.
€}ÄTMÄ□□□□>?p□□□p0□□„-fdff□□□ÄTMÄ□□□□>?p?ÿ□□„KlV□W,R:†aaja□□□`
access□□      ß□
€}ÄTMÄ□□□Á□□>?p□□□p2□□„-fefg□□□ÄTMÄ□□□Á□□>?p>?p□□„KlV□□,S†aaja□□□
I(Optional) Enables bridging access mode, in which the bridged connection
P·j□□□□@I does not transmit or act upon bridge protocol data unit (BPDU) packets.
€}ÄTMÄ5-
l¿?û□□□p4□□„-fffh□□□ÄTMÄ5-
l¿?û□?ÿ□□„KlW□W,T:†aaja□□□`

```

dot1q *bridge*

€}Àí™™Á5

ÁD¿?ûp6"-fgfiÀí™™Á5

ÁD¿?û?û,"KlW,U†ªªa K(Optional) Enables Institute of Electrical and Electronic Engineers (IEEE) p•j©K802.1Q tagging to preserve the class of service (CoS) information from the JEthernet frames across the ATM network. If this keyword is not specified, the ingress side assumes a CoS value of 0 for quality of service (QoS) purposes.

€}Àí™™Áti¿?ûp8"-fhfjÀí™™Áti¿?û?ÿ,"KlXW,V

†ªªaªa`tag

€}Àí™™ÁtiÁD¿?ûp:,"-fifkÀí™™ÁtiÁD¿?û?û,"KlX,W†ªªaªa

F(Optional~ATM PVCs only) Specifies the 802.1Q value in the range 1 to

•j©M4095. You can specify up to 32 *bridge-domain* *bridge* command

entries using ":0dot1q *bridge* *bridge* *bridge* for a single PVC. The highest tag value in a group of 0*bridge-domain* *bridge* commands must be greater than the first tag entered (but no *bridge* more than 32 greater).

€}Àí™™Á´/l³?ûp<,"-fjflÀí™™Á´/l³?û?ÿ,"KlYW,X:†ªªaªa`dot1q-tunnel *bridge*

€}Àí™™Á´/ÁD³?ûp>,"-fkfmÀí™™Á´/ÁD³?û³?û,"KlY,Y†ªªaªa

I(Optional) Enables IEEE 802.1Q tunneling mode, so that service providers p•j©Dcan use a single VLAN to support customers who have multiple VLANs, while preserving customer VLAN IDs and segregating traffic in different customer VLANs.

€}Àí™™Áçnyls?ýp@,"-flfnÀí™™Áçnyls?ý?ÿ,"KlZW,Z

†ªªaªa`

broadcast

€}Àí™™ÁçnyÁD\$?ýpB,"-fmfoÀí™™ÁçnyÁD\$?ý\$?ý,"KlZ,[†ªªaªa

K(Optional) Enables bridging broadcast mode on this PVC. This option is not p•j©Jsupported for multipoint bridging. Support for this option was removed in ©Cisco IOS Release 12.2(18)SXF2 and Cisco IOS Release 12.2(33)SRA.

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®ü¹³?ü□□□pD□□,, -fnfp□□□À□™™™Â

@üł³?ü?ÿ,,Kl[w,\:†ªj`ignore-bpdu-pid ß
€}Àí™™™Â

®üÁD ³?ü pF,, -fofqÀí™™Â

®ÜÁÐ³?Ü³?Ü,,Kl[,,]†ª%ja E(Optional for ATM interfaces only) Ignores
BPDU protocol identifiers p•j©K(PIDs) and treats all BPDU packets as data
packets to allow interoperation with ATM customer premises equipment (CPE)
devices that do not @-distinguish BPDU packets from data packets.
€}À™™™ÄÄîl,?ÜpH,,-fpfrÀ™™™ÄÄîl,?Ü?ÿ,,Kl\W,^:†ª%ja` pvst-tlv
€}Ä¹™™™ÄÄîÁÐ,?ÜpJ,,-fqfsÄ¹™™™ÄÄîÁÐ,?Ü,?Ü,,Kl\,,_†ª%ja
J(Optional) When the router or switch is transmitting, translates Per-VLAN
•j©@2Spanning Tree Plus (PVST+) BPDUs into IEEE BPDUs.
,,`|j` IWhen the router or switch is receiving, translates IEEE BPDUs into
PVST+ P²j\$@BPDUs.
€}À™™™Äz.ôl\$?ÿpM,,-frftÀ™™™Äz.ôl\$?ÿ?ÿ,,Kl]W,aK†ª%ja`CE-vlan
€}Ä¹™™™Äz.ôÁÐ\$?ÿp0,,-fsfuÄ¹™™™Äz.ôÁÐ\$?ÿ\$?ÿ,,Kl],,b†ª%ja
?Customer-edge VLAN in the Shared Spanning Tree Protocol (SSTP) p•j©Ftag-
length-value (TLV) to be inserted in an IEEE BPDU @

conversion.

€}ÀTMÂ;nñl>?pQTM„-ftfvTMÀTMÂ;nñl>?p?ÿTM„KlTM^W,c:†^aaj^a„`incrementTM
ß

€}ÀTMÂ;nñÁD>?pTMpSTM„-fuTMÀTMÂ;nñÁD>?p>?pTM„KlTM^TM,d†^aaj^a„ E(PVC
range configuration mode only) (Optional) Increments the bridge P•jTM@@)domain
number for each PVC in the range.

€}ÀÿÿQLÀP?úTMpUTM„)fxTMÀÿÿQLÀP?ú?ÿTM,elTM_W,e:†^aaj^a„`lan-fcs

€}ÀÿÿQÁDTMÀP?úTMpWTM„)fwfyTMÀÿÿQÁDTMÀP?úÀP?úTM,elTM_TM,f†^aaj^a„

I(Optional) Specifies that the VLAN bridging should preserve the Ethernet

0•jTM@@?LAN frame checksum (FCS) of the Ethernet frames across the ATM TM@@
network.

□,g²jSTM <This option applies only to routers using a FlexWAN module.

p%j!TMSupport for this option was removed in Cisco IOS

TM@8ReleaseTM12.2(18)SXF2 and Cisco IOS Release 12.2(33)SRA.

€}ÀÿÿÀi?úTMl>?pTMpZTM„)fxTMfzTMÀÿÿÀi?úTMl>?p?ÿTM,elTM`W,h:†<sup>a</sup>aj<sup>a</sup>„`split-
horizonTM ß

€}ÀÿÿÀi?úÁD>?pTMp\TM„)fyTMÀÿÿÀi?úÁD>?p>?pTM,elTM`TM,i†^aaj^a„

C(Optional) Enables RFC 1483 split horizon mode to globally prevent

P•jTM@@(bridging between PVCs in the same VLAN.

€}ÀÿÿÁÍ@lS?ÿTMQTM„)fTMf|TMÀÿÿÁÍ@lS?ÿ?ÿTM„HmTMbW,p†^aaj^a„`

12.1(13)E

€}ÀÿÿÁÍ@ÁDTMS?ÿTMQTM„)f{f}TMÀÿÿÁÍ@ÁDTMS?ÿS?ÿTM„HmTMbTM,q†^aaj^a„ PThis
command was introduced as the TM pTMbridge-vlanTM ß command for the 2-port
p•jTM@@COC-12 ATM WAN Optical Services Modules (OSMs) on CiscoTM7600 series
TM@@,routers and CatalystTM6500 series switches.

€}ÀÿÿÁ|

=lTM?ÿTMQTM„)f|f~TMÀÿÿÁ|

=lTM?ÿ?ÿTM„HmTMcW,r†^aaj^a„`

12.1(12c)E

€}ÀûÿÿÁ|

=ÁÐ□□□?ÿ□□□ð□□□,„)f}f□□□□ÀûÿÿÁ|

=ÁÐ□□□?ÿ□?ÿ□□,„Hm□c□W,s□†^{aa%}j^a□□□`@This command was integrated into Cisco IOS Release 12.1(12c)E.

€}ÀûÿÿÁ<M<l>?p□□□ðY□□□,„)f~„□□□□ÀûÿÿÁ<M<l>?p□?ÿ□□,„Hm□d□W,t□†^{aa%}j^a□□□`

12.1(14)E1

€}ÀûÿÿÁ<M<ÁÐ□□>?p□□□ð[□□□,„)f□□□□□□□□ÀûÿÿÁ<M<ÁÐ□□>?p>?p□□,„Hm□d□□,□†^{aa%}j^a□□□ CThis command was integrated into Cisco IOS Release 12.1(14)E1. The R

•j□□□□@%dot1q-tunnel□□ B□ keyword was added.

€}ÀûÿÿÁ|□:l>?p□□□ð]□□□,„)□□□□□□□□ÀûÿÿÁ|□:l>?p□?ÿ□□,„Hm□e□W,v□†^{aa%}j^a□□□`

12.2(14)SX

€}ÀûÿÿÁ|□:ÁÐ□□>?p□□□ð_□□□,„)□□□□□□□□ÀûÿÿÁ|□:ÁÐ□□>?p>?p□□,„Hm□e□□,□†^{aa%}j^a□□□ CThis command was integrated into Cisco IOS Release 12.2(14)SX. The R

•j□□□□@<dot1q-tunnel□□ B□ keyword is not supported in this release.

€}ÀûÿÿÁÁÍ8l□?ÿ□□□ð□□□,„)□□□□□□□□ÀûÿÿÁÁÍ8l□?ÿ□?ÿ□□,„Hm□f□W,x□†^{aa%}j^a□□□`

12.1(19)E

€}ÀûÿÿÁÁÍ8ÁÐ□□□?ÿ□□□ðc□□□,„)□□□□□□□□ÀûÿÿÁÁÍ8ÁÐ□□□?ÿ□?ÿ□□,„Hm□f□W,y□†^{aa%}j^a□□□`/The □□ Ñ□split-horizon□□ B□ keyword was added.

€}ÀûÿÿÁÑ

7l>?p□□□ðe□□□,„)□□□□□□□□ÀûÿÿÁÑ

7l>?p□?ÿ□□,„Hm□g□W,z□†^{aa%}j^a□□□`

12.2(18)S

€}ÀûÿÿÁÑ

7ÁÐ□□>?p□□□ðg□□□,„)□□□□□□□□ÀûÿÿÁÑ

7ÁÐ□□>?p>?p□□,„Hm□g□□,{□†^{aa%}j^a□□□ BThis command was integrated into Cisco IOS Release 12.2(18)S. The R

•j□□□□@Vdot1q-tunnel□□ B□ and □□ Ñ□split-horizon□□ B□ keywords are supported in this release.

€}ÀûÿÿÁìM5l>?p□□□ði□□□,„)□□□□□□□□ÀûÿÿÁìM5l>?p□?ÿ□□,„Hm□h□W,|□†^{aa%}j^a□□□`

Àÿÿ"Í1l>?p?ÿ,,HmjWf†aa%ja`

12.2(18)SXF2

€}Àÿÿ"Í1ÁD>?pòs,,)

"

Àÿÿ"Í1ÁD>?p>?p,,Hmjf†aa%ja TSupport for the lan-fcs ß

and broadcast ß ßkeywords was removed. The R

•j@Aignore-bpdu-pid ß ßand ß ßpvst-tlv ß ßkeywords were added.

€}Àÿÿ>

/l?ÿòu,,)

ÀÿÿÂ>
/ℓ?ÿ?ÿ,,HmκWf†^aaj^a`

12.2(33)SRA

€}ÀûÿÿÂ>

/ÁD□□□?ÿ□□□Òw□□,,)„

□□□□ÀûÿÿÂ>

/ÁD□□□?ÿ□?ÿ□□„Hm□k□Wf□□†^a‰j^a□□□`@This command was integrated into Cisco□IOS

Release 12.2(33)SRA.

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„B□„□□□□ÀûÿÿÁæ-□l□?ÿ□?ÿ□□„, d□l□Wf□□†^a‰j^a□□□`□Command

ÀÿÿÂ\$ŸfÁ°æïñ³„f^„ÀÿÿÂ\$ŸfÁ°æïæï„€&Š†ªŠ™Ä
`QThe following example enables an interface to participate in BFE emergency
mode:
wŠU(...UTšDm`bfe enter serial 0
€}ÀÿÿÁæ-ÁD?ÿò
„B„„ÀÿÿÁæ-ÁD?ÿÿ„,dlwf.ªªja`

Description

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„B„ „ ÀÿŸÃ^l?ÿ?ÿ„, d mWf/:†^a_%j^a

```
bre-connect
```

€}ÀûÿÿÁõ^□ÁD□□□?ÿ□□□òö□

```

,,B,,,""ÀûÿÿÁó^"ÁD"?"ÿ?"ÿ,,,d"m"Wf0"+aa%j"$$$Enables the BRE over a PVC or
SVC.

```

€}À□ÿÿÂ□ž□ł□?ÿ□□□òø□

"B" "ÀÿŸŽł?ÿ?ÿ,, dñwf1:†ªjª`show atm pvc ß

€}ÀûÿÿÂ□Ž□ÁD□□□?ÿ□□□òú□

„B„ÄÿÿÄžÄD?ÿ?ÿ„,dñwf2†ªjª`1Displays the configuration of a particular PVC.

€}À□^{TMTM}Á+⁻□ÀG"Ž, ?ü□□□Ót□□,,C□,, \$□□□À□^{TMTM}Á+⁻□ÀG"Ž, ?ü□?ÿ□□,,&{□o□Wf;

```
† a a % j a          `
bridge-id
```

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[illegible]

À^{TMM}ÀŒçùÁ°ÀJÿúñ×„1fb„À^{TMM}ÀŒçùÁ°ÀJÿúÀJÿú„3€8f†^{aa}
 †^{aa} lTo preserve class of service (CoS) information across the ATM network,
 use the p_dot1q B option. This 0'^a@^configuration uses IEEE 802.1Q
 tagging to preserve the VLAN ID and packet headers as they are @%transported
 across the ATM network.
 f^a\$ fTo enable service providers to use a single VLAN to support customers
 that have multiple VLANs, while »^a|Zpreserving customer VLAN IDs and
 segregating traffic in different customer VLANs, use the B:@wdot1q-tunnel
 B option on the service provider router. Then use the p_dot1q B
 option on the customer routers.

\$Â'¢óÂ

TMTM.£ñ0,,1,,,\$Â'¢óÂ

TMTM.£.£,,3€9f†aa~M½€The Ñaccess ß, Ñdot1q ß, and Ñdot1q-tunnel ß options are mutually

exclusive. If you do not specify any of these pM%hoptions, the connection operates in òrawó bridging access mode, which is similar to access, except that ðð@8the connection does act on and transmit BPDUs. □

ÀTMÂkFÁ°-ÿüñÛ„1„„#ÀTMÂkFÁ°-ÿü-ÿü„3€:f†aa†aa
RFC 1483 bridging is supported on AAL5-MUX and AAL5-LLC Subnetwork Access
Protocol (SNAP) p^a@^encapsulated PVCs. RFC-1483 bridged PVCs must
terminate on the ATM interface, and the bridged otraffic must be forwarded
over an Ethernet interface, unless the psplit-horizon ß option is used,
which @1allows bridging of traffic across bridged PVCs.

Adãpá,, ”

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□\$QA

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TM™ŽpžpŠŒRf5€ŠŒN

$2ff\hat{A}^{\wedge\frac{1}{2}}-\hat{A}$

^{TMTM}ÀqBj□□□ñ¶□□„□„□□□□ $2ff\hat{A}^{\wedge\frac{1}{2}}-\hat{A}$

^{TMTM}ÀqBjÀTÿú□□□□□□N□□ŠwŠ^„□€(□□□ŠwŠYŠ[Š]□□□

\$Â EÿÂ

TMTM^o 0000ñÚ00,,1,,0000\$Â EÿÂ

TMTM^o 0«£000000000000,,3€;000000f00†^{aa}~M½000 fRFC 1483 bridging is not supported for switched virtual circuits (SVCs). It also cannot be configured P▯M¼000@!for PVCs on the main interface.

€}ÀÉ-7Á+▯Á_00,?ü000Óv00,,C,,0,,2000ÀÉ-7Á+▯Á_00,?ü,?ü00,,&{0000f<0†^{aa}%j^a000
QIdentifier for the bridge domain instance. The range is an integer from 1 to the 0•j©00000Rplatform-specific upper limit, where platform-specific upper limit is the maximum 000@0allowed by the platform.
Qf=²j\$000`2Upper limit on the Cisco ASR 1000 router is 4096.

²f fÄvÿyÀRİÍïïïïïñçïï„B„j„'ïïï²f fÄvÿyÀRÌÍïïïïïïïïïïïïïïï„D€=ïïïïïWfïï†^aŠ™Ăïï
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ÀÿÿÀÿÿÁ°ÁQíiñé„B„%„*ÀÿÿÀÿÿÁ°ÁQíiÁQíi„D€>f†^{aa}
Š™Á ^The following example shows a PVC being configured for IEEE 802.1Q VLAN
bridging using a VLAN -™Á@
ID of 99:

```
f(...UT¡Dl`&Router#  
configure terminal i  
f°Dj`,Router(config)#  
interface ATM6/2 i  
f`(`Router(config-if)#  
pvc 2/101 i  
f`<Router(config-if-atm-vc)#  
bridge-domain 99 dot1q i  
f-` )Router(config-if-atm-vc)#  
end i  
f`
```

f †^{aa}À™¶(kThe following example shows how to enable BPDU translation when
a ÁCatalyst 6500 series switch Á is Ào™µ@Zconnected to a device that
understands only IEEE BPDUs in an RFC 1483-compliant topology:

```
f!(...UTÀD^`HRouter(config-if-atm-vc)#  
bridge-domain  
  

```

```
100 pvst-tlv 150
```

```
f"À%D\`
```

f#†^{aa}À™° gThe p ignore-bpdu-pid ß keyword is not used because
the device operates in an RFC 1483-compliant À™¶@topology for IEEE BPDUs.

f\$À±™@`The following example shows how to enable BPDU translation when a
Catalyst 5500 ATM module is a 0À½™-device that understands only PVST BPDUs
in a non-RFC1483-compliant topology. When a HpÀuCatalyst 6500 series
switch Áv is connected to a Catalyst 5500 ATM module, you must enter both
keywords.

```
f%(...UTÀUDU`bRouter(config-if-atm-vc)#  
bridge-domain  
  

```

```
100
```

```
ignore-bpdu-pid
```

```
pvst-tlv 150
```

```
f&ÃDS`
```

f'†^{aa}Ài™\$ (hTo enable BPDU translation for the Layer 2 Protocol Tunneling
(AwL2PT) topologies, use the following ÁÚ™!@ command:

```
f((...UTÁ  
D0`oRouter(config-if-atm-vc)#  
bridge-domain  
  

```

```
100
```

```
dot1q-tunnel ignore-bpdu-pid pvst-tlv
```

```
150
```

```
f)ÁDM`
```

f*†^{aa}À™¡ bThe following example shows a range of PVCs being configured,
with the bridge domain number being Á+™ @ (incremented for each PVC in the
range:

```
f+(...UTÁ;DI`1Router(config)#  
interface atm 8/0.100 i  
f,ÁEDG`5Router(config-subif)#  
range pvc 102/100 102/199  
Af-`>Router(config-if-atm-range)#  
bridge-domain 102 increment
```

$$\begin{aligned} & \left(\frac{1}{\sqrt{2\pi}} \int_{-\infty}^{\infty} e^{-\frac{1}{2}t^2} dt \right)^2 = 1, \quad \text{and} \quad \int_{-\infty}^{\infty} e^{-\frac{1}{2}t^2} dt = \sqrt{2\pi}, \\ & \text{and} \quad \int_{-\infty}^{\infty} e^{-\frac{1}{2}t^2} dt = \sqrt{2\pi}, \quad \text{and} \quad \int_{-\infty}^{\infty} e^{-\frac{1}{2}t^2} dt = \sqrt{2\pi}, \end{aligned}$$

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ÀTMÂ'žÁ°TMïTMñùTM„C„e„0TMÀTMÂ'žÁ°TMïTMïTM„b€HTMŠ#†aaŠTMÄ
 /Service instance configuration (config-if-svc) P-TMÄTM@5MAC-in-MAC tunnel
configuration (config-tunnel-minm)

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split-horizon

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TMTMÂ "+,DfV,# ŠìàRìí

The Cisco IOS Release 12.2(33)SCF supports up to three backup pseudowires for a primary pseudowire. The `priority` keyword is optional when only one backup pseudowire is configured. This keyword is a required choice when multiple backup pseudowires are configured.

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TMTMa \$\hat{y}\epsilon^2 f_{-} - f(\hat{A})\hat{O}\hat{A}\$
TMTMa \$\hat{y}^a\hat{y}\%Gfa\epsilon\%G\$

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TM_{TM} . £ . £ € M Š Š †^a ~ M_{1/2} pThe Ê û bridge-domain

The `bridge(config)` command allows a user to configure components on a bridge domain. For example, the MAC Address Limiting security component can be configured on a bridge domain using `mac-limit`.

this command.

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Á_□□-?ý-?ý□□„&{□p□□f?□†^{a a%}j^a□□□ P(Optional) Configures a port or service instance as a member of a split-horizon □•j©□□□@□group.

Qf@!j`□□□`GThis keyword is not supported in MAC-in-MAC tunnel configuration mode.

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†^{a a%}j^a□□□`□group

€}ÀÉ-7Á□/□Á_□□ ?p□□□Ó€□□„C„:„<□□□ÀÉ-

7Á□/□Á_□□ ?p ?p□□„&{□q□□fB□†^{a a%}j^a□□□`, (Optional) Defines the split-horizon group.

QfCšj©□□□`GThis keyword is not supported in MAC-in-MAC tunnel configuration mode.

€}À^{TMTM}Á°□□ÀG“ž±?ý□□□Óf□□„C„;„=□□□À^{TMTM}Á°□□ÀG“ž±?ý□?ý□□„&{□□?□WfD

†^{a a%}j^a□□□` □group-id

€}ÀÉ-7Á°□□Á_□□±?ý□□□Ó...□□„C„<□□□□ÀÉ-

7Á°□□Á_□□±?ý±?ý□□„&{□□?□□fE□†^{a a%}j^a□□□`H(Optional) Identifier for the split-horizon group. Range is 1 to 65533.

□fFšj©□□□`HThis argument is not supported in MAC-in-MAC tunnel configuration mode.

AfG□□□`WOn the Cisco ASR 1000 router, the range for the □□ Í□group-id□□ □□ □ argument is 0 to 1.

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†^{a a%}j^a□□□`□enter

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KCauses the Cisco IOS software to send a special address translation packet p•j©□□□□□Qthat includes an □□

□□enter emergency mode□□ □□□□ command to the Blacker Front End □□□□J(BFE) if the emergency mode window is open. □□Àû□□If the BFE is already in □□□□Memergency mode, this command enables the sending of □□Ài□□address translation □□□@

information.

€}ÀÿÿÁ0"Àj_ì>?p±'„„„?„AÀÿÿÁ0"Àj_ì>?p?ÿ„Q€ZsWfM

†^{aa}%j^a„„`leave

€}Àú_ěÁ0"ÁBíe>?p±"„„@^PÀú_ěÁ0"ÁBíe>?p>?p„Q€Zs„fN†^{aa}%j^a„„(PDisab
les the „Áísending of address translation information from the CiscoIOS

P•j©„„@7software to the BFE when the BFE is in emergency mode.

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AdÃqR,,b,b ²ffQÂ
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□bridge-domain 200

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```
„MÀÿÿÀøøÁ°ïï„+€/W,l†aŠ™Ä` Bridging is disabled.
```

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h.bump (Frame Relay VC-bundle-member×r)

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]To enable RFC 1483 ATM bridging or RFC 1490 Frame Relay bridging to map a
 bridged VLAN to an 'a@ATM permanent virtual circuit (PVC) or Frame Relay
 data-link connection identifier (DLCI), use the jÀkbridge-domain
 command in Frame Relay DLCI configuration, interface configuration,
 interface ATM "jVC configuration, or PVC range configuration mode. To
 disable bridging, use the pno form of this @ command.
 ,N À^a¥ € bridge-domain Îvlan-id [Ñaccess |
 Ñdot1q [Îtag] | Ñdot1q-tunnel [
 Ñbroadcast] [Ñignore-bpdu-pid] ÀX^a□@q[
 Êpvst-tlv

□ □
□□CE-vlan□□

```

]  B[  Nincrement  B] [  Nlan-fcs  B] [  psplit-
horizon  B]
S,0  An^£`$no bridge-domain  Ivlan-id  B

```

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WŠ\$□†^aa₉j^a□□□`□Release

Modification

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(iTo allow the router to participate in À|emergency mode or to end
participation in emergency mode when 0'a@the interface is configured for
x25 bfe-emergency decision and
x25 bfe-decision ask, use the bfe @command in
user EXEC mode.
SfJ 'a\$`Hbfe

{ } Ñenter

□ | □ □ Ō □ □ Ñ □ leave □ □

□}□□ Ê□ □□ Î□type number

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™™™™Àxÿ÷Àxÿ÷□□□□□□-□□„>Š9„□€-□□□„>„@^PŠ*□□□

\$ÀýÿøÀRìÍïéÄ,, - „J„K\$ÀýÿøÀRìÍïï€+

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f`fefgfifkfmfofqfsfufwfyw,j†^{aa}Š[™]Ä@hÀl

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ÀTMÁ¢TM#Á°TMïTMò
TM„UTMÀTMÁ¢TM#Á°TMïTMïTM...TM€YTMWf_†TMŠTMÄTM`,Frame Relay VC-
bundle-member configuration

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□□□□□□□□□□...?€_□□□□□□ft□†aa~M½□□□ fWhen no alternative PVC can be found to handle bumped traffic, even when there are no packets of that □¤M¼□□□□etraffic type present, the bundle brings itself down. No messages are displayed unless the □□ □□□□□□debug " □□□□□□lframe-relay vc-bundle □□ □□□□□□□□command is enabled or the interface-level command □□ □□□□□□logging event frame-relay □□□□□□hvc-bundle status □□ □□□□□□□□is enabled. When default (implicit) bumping is used for all PVCs, the PVC that is b□□□□□□□□□□handling the lowest service level can be configured to bump explicitly to a PVC handling a higher service □□□□@□□level.

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eThe following examples show the alerts that appear during configuration.
They describe configuration 0'^a@[problems that might prevent the bundle
from coming up or might cause the bundle to go down @

unexpectedly:

`fv^as`j` The following example shows an alert that appears when the `no bump explicit` command is configured:

`fw(...UT&UP 1%DLCI 300` could end up bumping traffic to itself `AIUN@`
`fx^aaA^a` It warns that PVC 300 may be configured to bump to a PVC that will in turn bump back to PVC 300, `A`a;@` in which case the bundle will go down.

`fyAq^` The following example shows an alert that appears when a PVC that is explicitly bumped to is `A}^Y@7` configured with the `no bump traffic` command:

`fz(...UT&UH 7%DLCI 306` is configured for bumping traffic to level 7 `A-UF@`

`f{^aaA^a` The following example shows an alert that appears when the service levels handled by a PVC are `0A@a^m` changed, which leaves other PVCs explicitly configured to bump to levels that are no longer being `@` handled by that PVC:

`f|(...UT&EU @%DLCI(s)` configured for explicitly bumping traffic to DLCI 300 `AOU?@`

`f}^aaA^a` The following example shows an alert that appears when a PVC is configured to explicitly bump to `Aë^'@` a level that is not yet handled by any PVCs:

`f~(...UT&U; /%` Presently no member is configured for level 3 `AU9@`

`f^aaA^a` [The following example shows an alert that appears when you attempt to explicitly configure `A^a@` bumping to a PVC that is already configured with the `no bump traffic`

command:

`W, (...UT&, U5`5%DLCI` configured for level 0 does not accept bumping

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TMTM□□□□□□□□□□□□...T€f□□□□□W,,□□

h!À,,À...cell-paÀ†ckinÀ†g
€}À™™™ÂmüLl?ÿó”,,C,,N,,^À™™™ÂmüLl?ÿ?ÿ...}AwŠ&†ª%ja`

12.2(33)SRB

€}ÀíTMÂüLÁ@ff?ÿó•„C„]^6ÀíTMÂüLÁ@ff?ÿ?ÿ...}AŤŠ'†^a%j^a`This
command was introduced.

\$QÀRÌÍï(□□...L□,,a□□□\$QÀRÌÍï□□ï□□□□□□□□□□□□...N€a□□□□□W,,□□†^aaŠ™Ä□□□`□

The following example shows cell packing enabled on an interface set up for VP mode. The `cell-packing` command specifies that ten ATM cells be packed into each MPLS packet. The command also specifies that the second maximum cell-packing timeout (MCPT) timer be used.

```

G((UT^Dk Router>

```

```

enable
H%D Router#

```

```

configure terminal
I`&Router(config)#

```

```

interface atm1/0
J`5Router(config-if)#

```

```

atm mcpt-timers 1000 800 500
K`0Router(config-if)#

```

```

atm pvp 100 l2transport
L`QRouter(config-if-atm-l2trans-pvp)#

```

```

xconnect 10.0.0.1 234 encapsulation mpls
M`ERouter(config-if-atm-l2trans-pvp)#

```

```

cell-packing 10 mcpt-timer 2
N`
O^af^XThe following example configures ATM cell relay over MPLS with
cell packing in VC class A^@Bconfiguration mode. The VC class is then
applied to an interface.
P((UT^DY Router>

```

```

enable
Q^CDW Router#

```

```

configure terminal
R`.Router(config)#

```

```

vc-class atm cellpacking
S`1Router(config-vc-class)#

```

```

encapsulation aal0
T`;Router(config-vc-class)#

```

```

cell-packing 10 mcpt-timer 1
U`#Router(config-vc-class)#

```

```

exit
V`&Router(config)#

```

```

interface atm1/0
W`4Router(config-if)#

```

```

atm mcpt-timers 100 200 250
X`/Router(config-if)#

```

```

class-int cellpacking
Y`.Router(config-if)#

```

```

pvc 1/200 l2transport
Z`TRouter(config-if-atm-l2trans-pvc)#

```

```

xconnect 10.13.13.13 100 encapsulation mpls
[ ]
[ ] The following example configures ATM AAL5 over L2TPv3 in VC
class configuration mode. The VC 'class is then applied to an
interface.
[ ] (...UTÁ4D?, Router(config)#
vc-class atm aal5class
[ ] ^Á>D=1Router(config-vc-class)#
encapsulation aal5
[ ] -!
[ ] `&Router(config)#
interface atm1/0
[ ] a, Router(config-if)#
class-int aal5class
[ ] b.Router(config-if)#
pvc 1/200 l2transport
A, cVRRouter(config-if-atm-l2trans-pvc)#
xconnect 10.13.13.13 100 encapsulation l2tpv3

```

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Àfï

°° °°°° °°°°...N€b°°°°°°„°°†ªªŠ™Ä°°° ZThe following example configures PVC 101 in the Frame Relay PVC bundle named bundle1 with 0-™Ä°°°°°°°°explicit bumping to the PVC bundle member having a precedence level of 7. PVC 101 is also configured °°°°@=to prohibit traffic from other PVCs from being bumped to it:

°„°(...UT²Dk°°°°`-frame-relay vc-bundle bundle1

°„°¼Di°°°°`°°match precedence

°„°°°°` °pvc 101

°„°°°°`

precedence 5
,"`no bump traffic
A,"`bump explicit 7
\$QÂ
TMTMÂqU,"C\$QÂ
TMTMÂ"D... , ~... ŠÌÀRÌÍ

```

ÀTMÁTMÁ°□□□i□□□iû□□„C„(„e□□□ÀTMÁTMÁ°□□□i□□i□□□□□□□□□□□□„b€F□□□□wƒQ□†ašTMÁ
□□□MService instances and MAC tunnels are not bound to a bridge domain
instance.
€}ÀTMÀÛ/□Àzfgç?û□□□qa□□...□□„i□□□ÀTMÀÛ/□Àzfgç?û□?ÿ□□...
€□□t□wƒU
†a‰‰ja□□□`□explicit□□ Ê□ □□ î□level

```

[illegible]

$^2f\bar{f}\bar{A}g^-$

ÀRÌÍïïïïïò9ïï...R...V...

□□□²ffÁg[−]

ÀRÌÍïïïïïïïïïï...T€jïïïïW,,%†^aŠ™Äïïï`ï

\$Á*öÀRÌÍïïïïïY„Cf

[illegible]

[illegible]

```

AöÿYQÁ°□□%ÿÿ□□éY□□„B□„%□□ÀöÿYQÁ°□□%ÿÿ%ÿÿ□□□□□□□□□□„DE<□□□□Wf□□†aa†aa□□`tIn
interface configuration mode, only the □□ p□dot1q□□ β□ and □□ p□dot1q-
tunnel□□ β□ keyword options are supported.
€}Ä□TMÄ□□Äzfg$?ý□□□qe□□...„i„m□□□Ä□TMÄ□□Äzfg$?ý□□?ÿ□□...
€□□u□WfW
†aa%j□□□` implicit

```

\$ÀÓİ

ÀRÌÍíïïïïïò, ïï...L,,a...ïïïïï\$ÀÓí

[illegible]

€}Àü□□Á□o□Á5™šš?ý□□□qg□□...□,,k,,n□□□Äü□□Á□o□Á5™šš?ýš?ý□□...

$\epsilon \square \square u \square \square f X \uparrow^{a a \% j^a \square \square \square}$ Applies the implicit bumping rule, which is the default, to

a single PVC p.jcIbundle member. The implicit bumping rule is that bumped traffic is to be @7carried by a PVC that has the lower precedence level.

$$\epsilon \} \tilde{A} \square^{\text{TMTM}} \tilde{A} A^-$$

Àzfg>?p□□□qi□□...□,,m,,o□□□À□™™™ÁA[—]

Àzfg>?p□?ÿ□□...
€□□v□WfY
†ªªjª□□□`□traffic
€}Àü□□ÁA⁻

Á5™Š›?p□□□qk□□...□,,n□□□□Àü□□ÁA[−]

Á5™Š>?p>?p...

€vffZ†ª JSpecifies that the PVC accept bumped traffic (the default condition). The R:•j@Eno Bform stipulates that the PVC does not accept bumped traffic.

€}À™ÁíüUÀzfg?ÿq...„qÀ™ÁíüUÀzfg?ÿ?ÿ...€wWf`†ª`Releas
e

€}Àü™ÁíüUÁ5™Š?ÿqu...„p„rÀü™ÁíüUÁ5™Š?ÿ?ÿ...€wWfa†ª`
Modification

€}À™ÁÝ<TÀzfg?ÿqw...„q„sÀ™ÁÝ<TÀzfg?ÿ?ÿ...€xWfb†ª`
12.2(13)T

€}Àü™ÁÝ<TÁ5™Š?ÿqy...„r„tÀü™ÁÝ<TÁ5™Š?ÿ?ÿ...€xWfc†ª`This
command was introduced.

€}À™Áì|SÀzfg?ÿq{...„s„uÀ™Áì|SÀzfg?ÿ?ÿ...€yWfd†ª`
12.2(16)BX

€}Àü™Áì|SÁ5™Š?ÿq}...„t„vÀü™Áì|SÁ5™Š?ÿ?ÿ...€yWfe†ª`@This
command was integrated into CiscoIOS Release 12.2(16)BX.

€}À™Áû¼RÀzfg?ÿq...„u„wÀ™Áû¼RÀzfg?ÿ?ÿ...€zWff†ª`
12.0(26)S

€}Àü™Áû¼RÁ5™Š?ÿq...„v„xÀü™Áû¼RÁ5™Š?ÿ?ÿ...€zWfg†ª`>This
command was integrated into CiscoIOS Release 12.0(26)S.

€}À™Á

üQÀzfg?ÿqf...„w„yÀ™Á

üQÀzfg?ÿ?ÿ...€{Wfh†ª`

12.2(28)SB

€}Àü™Á

üQÁ5™Š?ÿq...„xÀü™Á

üQÁ5™Š?ÿ?ÿ...€{Wfi†ª`?This command was integrated into CiscoIOS
Release 12.2(28)SB.

€}À™ÁŒ-\$ĂŽ?ÿq`...L„{À™ÁŒ-\$ĂŽ?ÿ?ÿ...€|W„
9†ª`Command

€}Á™ÁŒ-\$Á!ň?ÿqa...L„Z„|À™ÁŒ-\$Á!ň?ÿ?ÿ...€|W„
9†ª`

Description

€}À^{™™™}Ää^#Ž□□□?ÿ□□□q¬□□...L„{„}□□□À^{™™™}Ää^#Ž□□□?ÿ□?ÿ□□...□€□□}□W„

†aa%ja`class
€}ÁÄ^#A!ñ?ÿq@...L,,|,,~ÁÄ^#A!ñ?ÿ?ÿ...€}W,,
†aa%ja`.Associates a map class with a specified DLCI.
€}À"Ž"Ž>?p°...L,,},,À"Ž"Ž>?p>?p...€~,,

†aa%ja dscp (Frame Relay P•j©@VC-bundle-member)
€}Á™™™™Áóž"Á!ñ>?pqq²...L„~...Á™™™™Áóž"Á!ñ>?p?p...€~„„†aa%ja
BSpecifies the DSCP value or values for a specific Frame Relay PVC
P•j©@bundle member.
€}Á™™™™Á

▷ ÀŽ□□▷?p□□□q´□□...L,,□...□□□□À□™™™Á

▷ ÀŽ□□>?p□?ÿ□□...□€□□□□W,,□
€}Á□™™™Á

†^aa%j^a□□□`□exp

▷ Á!ñ>?pqq¶...L...Á™™Á

```

p Á!ñ>?p>?p...€...,,†aa%ja 8Configures MPLS EXP levels for a Frame Relay
PVC bundle P•j@member.
€}ÀTMTMÁ*- -ÀŽ>?pqq, ...L...ÀTMTMÁ*- -ÀŽ>?p>?p...€€...,, †aa%ja
precedence (Frame Relay P•j@VC-bundle-member)
€}ÁTMTMÁ*- -Á!ñ>?pqq°...L...ÁTMTMÁ*- -Á!ñ>?p>?p...€€...,,†aa%ja
>Configures the precedence levels for a Frame Relay PVC bundle P•j@member.
€}ÀTMTMÁE^ÀŽ>?pqq¼...L...ÀTMTMÁE^ÀŽ>?p>?p...€€...,, †aa%ja
protect (Frame Relay P•j@VC-bundle-member)
€}ÁTMTMÁE^Á!ñ>?pqq¼...L...ÁTMTMÁE^Á!ñ>?p>?p...€€...,,†aa%ja
:Configures a Frame Relay PVC bundle member with protected P•j@group or
protected PVC status.
€}ÀTMTMÁ`ŽÀŽ>?pqqÀ...L...ÀTMTMÁ`ŽÀŽ>?p>?p...€€W,, †aa%ja`pvc
(Frame Relay VC-bundle)
€}ÁTMTMÁ`ŽÁ!ñ>?pqqÁ...L...ÁTMTMÁ`ŽÁ!ñ>?p>?p...€€...,,†aa%ja
;Creates a PVC and PVC bundle member and enters Frame Relay P•j@%VC-bundle-
member configuration mode.

```

\$ÀÕ-\$Â
™™™À|¿ô□□□ò-□□...L,,l...

\$ÀÕ-\$Â
™™™™À|¿ôÀ|¿ô!„z...N€d„z„|„~...

\$Áxĭ
ÀRĬÍĭĭĭĭĭĭĭlĭĭ...
...ĭĭĭĭ\$Áxĭ
ÀRĬÍĭĭĭĭĭĭĭĭĭĭĭĭĭĭ...€VĭĭĭĭWf\ĭ†^aaŠTMÄĭĭĭ`ĭ

²ffÀR/□Â

™™™À`ÿù□□□ò[□□†□...□...□□□²ffÀR/□Â

™™™À`ÿùÀ`ÿù□□□□□□\$□□...5...<†□€v□□□...5...7...9...;□□□

\$ÀÛ/□Â

TMÏMÀ□¿Ö□□□i

□□...□„S... □□□\$ÀÛ/□Â

TMÏMÀ□¿ÖÀ□¿Ö□□□□□□□□„d„o...□€U□□□„d„k„n□□□

ÀTMÁ}pÁ°ÁR!è/...L...ÀTMÁ}pÁ°ÁR!è%ÿÿ...N€eW,,†aa†a
a`

²ffÁ¢°@Â

™™™Á-0À□□□î`□□...□„F□□□□²ffÁ¢°@Â

™™™Á-0ÀÀÿú□□□□□□L□□‰Š!...€Q□□□‰ŠŠ-Š □□□

À□ÿÿÁg[−]

Á°□□□İ□□□□ò;□□...R,,f...□□□□À□ÿÿÁg[−]

Á°ïï...T€kW,,&†^aŠTMÄ`Cell packing is disabled.

ÀÿÿÀµ/Á°ÂĐîò\†...
ÀÿÿÀµ/Á°ÂĐî%ÿ†€wW,,m†aa†aa`

\$ÁíüUÂ

^{TMTM}ÀL?ûim...„U„X\$ÁíüUÂ

^{TMTM}ÀL?ûÀL?û „p„y...€[„p„r„t„v„x

²ffÁ'ž%ÀRÌÍï□□□□ò=□□...R...

...□□□□²ffÁ'ž%ÀRìÍí□□□□□□□□□□□□□□□□...T€l□□□□□W,, '□†ªaš™Ä□□□□□

À°pÁ°Àÿûò_††\$...A°À°pÁ°ÀÿûÀÿû†€y„o†aa†aa
%rTo associate a map class with a specified data-link connection identifier
(DLCI), use the ùclass ß command 0'a@^in Frame Relay DLCI
configuration mode or Frame Relay VC-bundle-member configuration mode. To
remove the association between the DLCI and the map class, use the
no ß form of this command.
p ^asclass î name
C,qeno ß íclass ß îname

\$Â^¼MÂ

TM™™ÀqC³éí„C„0\$Â^¼MÂ

TM™™ÀqC³Àd?ù„L‰|„b€J„L„]^6‰x‰{

AdÃqø.....!

ÀTMÁxï
Á°i

□□...□... ...□□□□À□™™™Áxï
Á°□□□ï□□□ï□□□□□□□□□□...□€w□□□□wf]□†ªªŠ™™Ä□□□`>The PVC accepts bumped traffic,
and implicit bumping is used.
□²ffQÂ
™™™™Ä□□□□□□qû□□...□□□□□²ffQÂ
™™™™Ä□□□□„b...□„7...
□ □□□□ŠììÀRìí□□□

[illegible]

AdÃqß... "€}ÀÿÿÀÛ/À_fgÀU?úqö...R...
ÀÿÿÀÛ/À_fgÀU?ú?ÿ...V€ €w,, -3†ªjª`cells
\$QÂ
TMTMÂqâ...\$QÂ
TMTMÂ...?„I„[ŠìàRìí

ÀÿÿÁ'ž%Á°±ïò?R...-ÀÿÿÁ'ž%Á°±ï±ï...T€m„(†aaŠ™Ä
Interface configuration p-™Ä(L2transport VC configurationÑfor ATM VC
 (L2transport VP configurationÑfor ATM VP @VC class
configuration

ÀTMÁ

Á°iíó^‡\$‡ ÀTMÁ

Á°iíi^[]W†=†^aŠTMÄdPrivileged EXEC

²ffQÂ

TMTMö\$tr...E²ffQÂ

TMTMtt

W...5


```
l__class__ (ma__p-list)
```

²f f Áß ;ÀRÌÍ ì □□□□òA □□...R...>□□²f f Áß ;ÀRÌÍ ì □□ì □□□□□□□□□□...T€n □□
#.#%...'...) + + - ./ /1..3 #.#%...'...) + + - ./ /1..3W,,;†^aa Š™Ä □□@h □□À □□

ÀÿÿQÁ°ÀGiéô...„7„8ÀÿÿQÁ°ÀGiÀGi...€LŠ0†aaŠ™Ä
mUse the `bridge-domain` `(service instance)` command to bind either
a service instance or a MAC tunnel `-™Ä@` to a bridge domain.
Š1S™Ä XBridge domains cannot be configured under a service instance under a
MAC tunnel without `™Ä@&encapsulation` also being configured.
QŠ2AD™Ä`8The Cisco ASR 1000 router does not support MAC tunnels.
€}ÀiffÀÛ/ÁMÀU?úqø...R...!ÀiffÀÛ/ÁMÀU?úÁU?ú...V€ €€„-
†^aa%j^a„L(Optional) The number of cells to be packed into an MPLS or L2TPv3
packet.
„ šj© LThe range is from 2 to the maximum transmission unit (MTU) of the
interface 0|j``Jdivided by 52. The default number of ATM cells to be packed
is the MTU of @-the interface divided by 52.
„!ÀCj| LIf the number of cells packed by the peer provider edge router
exceeds this PÀOj¥@limit, the packet is dropped.
€}ÀÿÿÁ0o

À_fg>?p□□□qû□□...R... ..."□□□À□ÿÿÁ0o

À_fg>?p□?ÿ□□...V€ □€□□W,, " †^aa%j^a□□□`□mcpt-timer□□ ß□ □□ ÷□timer
€}ÀïffÁ0o

ÁM□□>?p□□□qp□□...R...!□□□□ÀïffÁ0o

ÁM□□>?p>?p□□...V€ □€□□□„#□†^a‰j^a□□□ R(Optional) Specifies which timer to use.
Valid values are 1, 2, or 3. The default P•j©□□□@
value is 1.
€}ÀÿÿÁà¼Tl□?ÿ□□□r□□□...R...\$□□□ÀÿÿÁà¼Tl□?ÿ□?ÿ□□...>€□□€□□W„)□†^a‰j^a□□□`□Release
€}ÀÿÿÁà¼TÁ@fg□?ÿ□□□r□□□...R...#...%□□□ÀÿÿÁà¼TÁ@fg□?ÿ□?ÿ□□...>€□□€□□W„*□†^a‰j^a□□□`
Modification
€}ÀÿÿÁiüSl□?ÿ□□□r
□□...R...\$...&□□□ÀÿÿÁiüSl□?ÿ□?ÿ□□...>€□□€□□W„+□†^a‰j^a□□□`
12.0(25)S
€}ÀÿÿÁiüSÁ@fg□?ÿ□□□r

...R...%...'ÀÛÿÿÁîÜSÁ@fg?ÿ?ÿ...>€€€W,,†ªjª`This command was
introduced.
€}ÀÿÿÁÿ<Rl?ÿr

□□...R...&...(□□□ÀûÿÿÁÿ<Rl□?ÿ□?ÿ□□...>€□□€□□W,, -□†^a‰j^a□□□`
12.0(29)S
€}ÀûÿÿÁÿ<RÁ@fg□?ÿ□□r□□□...R...'...)(□□□ÀûÿÿÁÿ<RÁ@fg□?ÿ□?ÿ□□...>€□□€□□W,,.□†^a‰j^a□□□` 'Supp
ort for L2TPv3 sessions was added.
€}ÀûÿÿÂ

|Ql>?p□□□r□□□...R...(*□□□À□ÿÿÂ

|Ql>?p□?ÿ□□...>€□□€□□w,,/□†^aa%j^a□□□`
12.0(30)S
€}ÀûÿÿÂ

|QÁ@fg>?p□□□r□□□...R...)...+□□□ÀûÿÿÂ

|QÁ@fg>?p>?p...>€€,,0†ªjª MThis command was updated to enable cell
packing as part of a virtual circuit P•j©@

(VC) class.

€}ÀüÿÿÂ)¼0l?ÿÿÿÿrÿÿÿÿ...R...*, ÿÿÿÿÀüÿÿÂ)¼0l?ÿÿ?ÿÿÿÿ...>€ÿÿÿÿ W,,1†ªªjªÿÿÿÿ`

12.0(31)S

€}ÀüÿÿÂ)¼0Á@fg?ÿÿÿÿrÿÿÿÿ...R...+...-ÿÿÿÿÀüÿÿÂ)¼0Á@fg?ÿÿ?ÿÿÿÿ...>€ÿÿÿÿ W,,2†ªªjªÿÿÿÿ`>This command was integrated into Cisco IOS Release 12.0(31)S.

€}ÀüÿÿÂ8üNl?ÿÿÿÿrÿÿÿÿ...R..., ...ÿÿÿÿÀüÿÿÂ8üNl?ÿÿ?ÿÿÿÿ...>€ÿÿÿÿ

W,,3†ªªjªÿÿÿÿ`

12.2(28)SB

€}ÀüÿÿÂ8üNÁ@fg?ÿÿÿÿrÿÿÿÿ...R...-.../ÿÿÿÿÀüÿÿÂ8üNÁ@fg?ÿÿ?ÿÿÿÿ...>€ÿÿÿÿ

W,,4†ªªjªÿÿÿÿ`?This command was integrated into Cisco IOS Release 12.2(28)SB.

€}ÀüÿÿÂH<Ml?ÿÿÿÿr-ÿÿÿÿR...0ÿÿÿÿÀüÿÿÂH<Ml?ÿÿ?ÿÿÿÿ...>€ÿÿÿÿ

W,,5†ªªjªÿÿÿÿ`

12.4(11)T

€}ÀüÿÿÂH<MÁ@fg?ÿÿÿÿr ÿÿÿÿR.../...1ÿÿÿÿÀüÿÿÂH<MÁ@fg?ÿÿ?ÿÿÿÿ...>€ÿÿÿÿ

W,,6†ªªjªÿÿÿÿ`>This command was integrated into Cisco IOS Release 12.4(11)T.

€}ÀüÿÿÂW|Ll?ÿÿÿÿr"ÿÿÿÿR...0...2ÿÿÿÿÀüÿÿÂW|Ll?ÿÿ?ÿÿÿÿ...>€ÿÿÿÿ

W,7†aa%ja`

12.2(33)SRB

€}ÀûÿÿÂW|LÁ@fg□?ÿ□□□r\$□□...R...1...3□□□ÀûÿÿÂW|LÁ@fg□?ÿ□?ÿ□□...>€□□€

W,,8†ªja`@This command was integrated into CiscoIOS Release 12.2(33)SRB.
€}ÀÿÿÂf¼Kl?ÿr&...R...2...4ÀÿÿÂf¼Kl?ÿ?ÿ...>€€
W,,9†ªja`

12.2(33)SXH

€}ÀüÿÿÂf¼KÁ@fg□?ÿ□□□r(□□...R...3□□□□ÀüÿÿÂf¼KÁ@fg□?ÿ□?ÿ□□...>€□□€

□W„:□†ªª%jª□□□`@This command was integrated into Cisco□IOS Release 12.2(33)SXH.

€}ÀüÿÿÀR/□l□?ÿ□□□rT□□†□□...6□□□ÀüÿÿÀR/□l□?ÿ□?ÿ□□...

€□□€

W„d†aa%ja` Command
€}ÀüÿÿÀR/Á@fg?ÿrV†...5...7ÀüÿÿÀR/Á@fg?ÿ?ÿ...
€€€

□w,,e□†^aaa%j^a□□□`

Description

```
€}ÀÿÿÀao l>?p rX t...6...8ÀÿÿÀao l>?p?ÿ...
€€W,,f:t^aj`atm mcpt-timers
€}ÀÿÿÀao Á@fg>?p rZ t...7...9ÀÿÿÀao Á@fg>?p>?p...
€€,,g:t^aj` KCreates cell-packing timers, which specify how long the PE
router can wait P•j@6for cells to be packed into an MPLS or L2TPv3 packet.
€}ÀÿÿÀ| l>?p r\ t...8...:ÀÿÿÀ| l>?p>?p...
€€,,h:t^aj`
debug atm P•j@
cell-packing
€}ÀÿÿÀ| Á@fg>?p r^ t...9...;ÀÿÿÀ| Á@fg>?p?ÿ...
€€W,,i:t^aj`<Displays ATM cell relay cell packing debugging information.
€}ÀÿÿÀ- i l>?p r` t...:...<ÀÿÿÀ- i l>?p?ÿ...
€€W,,j:t^aj`show atm cell-packing
€}ÀÿÿÀ- i Á@fg>?p r b t...;ÀÿÿÀ- i Á@fg>?p>?p...
€€,,k:t^aj` FDisplays information about the VCs and VPs that have ATM
cell packing P•j@ enabled.
```


AdÃrl...?..?#

²ffÁà¼TÂ

TMTMÀ•?öB...R...-...@²ffÁà¼TÂ

TMTMÀ•?öÀ•?ö#...#...4...T€o...#...%...'...)+...-.../...1...3²ffQÂ

TMTMÂro...=²ffQÂ

TMTMÂ...N...H,,Z ŠììÀRìÍ

[illegible]

[illegible]

ÀÿÿÂ'ÛJÁ°¼¶èE...R...@ÀÿÿÂ'ÛJÁ°¼¶¥ï...T€q,,=†ªŠÄ
kThe Êcell-packing ßcommand is available only if you configure the
ATM VC or virtual path (VP) with p-™ZATM adaptation layer 0 (AAL0)
encapsulation. If you specify ATM adaptation layer 5 (AAL5) @*encapsulation,
the command is not valid.

\$ÀÛ/□Â

^{TMTM}□?ÿ□□□òb□□†□...A...D□□□\$ÀÛ/□Â

^{TMTM}□?ÿ□?ÿ□□□□□□□%□□*f*

...X†□€{□□□*f*

□□□

[illegible]

ÀÿÿpÁ°«ÿÿö%†r...†{ÀÿÿpÁ°«ÿÿ«ÿÿ†t

6. To associate a map class with a protocol-and-address combination, use the `map-class` command in map-list configuration mode.

S...

`map-class protocol protocol-address map-class`

□ [□□ Ñ□broadcast□□

□] [□□ Ñ□trigger□□

□] [□□

Ñ□ietf□□

□]

À Á Á ° ì è † ...D...J À Á Á ° ì ì † € } W „ w † a a Š Ä
e No map class is defined.

\$QÂ

^{TMTM}1 ٭ü٭٭٭٭ðf٭٭٭7٭٭†.٭٭٭\$QÂ

^{TMTM}1 ٭ü¹٭ü٭٭٭٭٭٭٭٭ ' ٭٭...o٭٭٭†9٭

٭٭٭...o...q٭٭٭

ÀÿÿQÁ°Àÿ÷ìx...=„VÀÿÿQÁ°Àÿ÷Àÿ÷ ?€^fq†aa†aa
 lExplicit bumping: If you configure a PVC with the `Íbump explici` `Ñt` `ß`
 command, you can specify the `0'a@` service level to which traffic is bumped
 when that PVC goes down, and the traffic is directed to a `Þ`PVC mapped with
 that level. If the PVC that picks up and carries the traffic goes down, the
 traffic `Þ`uses the bumping rules for that PVC. You can specify only one
 service level for bumping.
`fr»a|` ZPermit bumping: The PVC accepts bumped traffic by default. If the PVC
 has been previously `0AGª` configured to reject bumped traffic, you must use
 the `Íbump traffic` `ß` command to return the PVC to `Þ`its default
 condition.
`fsÀª£` eReject bumping: To configure a discrete PVC to reject bumped traffic
 when traffic is directed to it, `PÀª¢`, use the `Íno bump traffic` `ß`
 command.

À^{TMTM}pÁ°^{ÀMÿû}ê...^I,^SÀ^{TMTM}pÁ°^{ÀMÿû}...^{€S}ŠE†aa†aa
(iTo ^ÀØ configure the bumping rules for a Frame Relay permanent virtual
circuit (PVC) bundle member, use 0'a@^gthe ^Íbump^ß command in
Frame Relay VC-bundle-member configuration mode. To specify that the PVC
^{@Y}bundle member does not accept bumped traffic, use the ^Íno
^ßform of this command.
^{fS} 'a\$^{bbump} Ê

$\{ \tilde{N}_{\text{explicit}} \hat{E} \hat{I}_{\text{level}} \hat{E} \}$

| `~implicit`

□ | □□

Ñ□traffic□□

}
AfT`no bump Ê Ñtraffic

[illegible]

AdÃr | ...N...N\$

[illegible]

□□□□□ŠÌÀRÌÍ□□□

²ffÁl⁻

ÀRÌÍïïïïïï&ïï†r†|...Kïïï²ffÁl⁻

ÀRÌÍïïïïïïïïïïïïïïïï†tïïïïïïïïW...Eï†ªªŠ™Äïïïdï

[illegible]

[illegible]

AdÃr...T...T%

AdÃr...w.w&²ffQÂ
TMTMÂr^...R²ffQÂ
TMTMÂ...N...W,,\...B ŠììÀRìí

ÀÿÿpÁ°ÀMÿûi%...R,\...PÀÿÿpÁ°ÀMÿûÀMÿû...T€g,,†aa†aa
 `To enable ATM over Multiprotocol Label Switching (MPLS) or Layer 2 Tunneling
 Protocol Version 3 0'a@l(L2TPv3) to pack multiple ATM cells into each MPLS
 or L2TPv3 packet, use the cell-packing ßcommand @lin the
 appropriate configuration mode. To disable cell packing, use the ßno
 ßform of this command.
 ,,`a\$KÀ^cell-packing ß[
 cells ß] [ßmcpt-timer ß ÷timer ß]
 A,,`no cell-packing

2ffÀÛ/□Â
TMTMÀp0000iŠ000...R...P„f0002ffÀÛ/□Â
TMTMÀp00Àp000000000000"00...0..."...T€i000...0...!0000\$QÂ
TMTMÂ000000r'00...S00000\$QÂ
TMTMÂ0000...T†0...s„`00000000ŠÌÀRÌÍ000€}Á0TMTMÀÛ/□Á(ì0?ÿ00000~00†0f
0000Á0TMTMÀÛ/□Á(ì0?ÿ0?ÿ00...C€00€00W„s†a%j a000a<Name of the map class to
associate with the specified DLCI.
€}À0TMTMÁg|]j0?ÿ00000 00†00...Z000À0TMTMÁg|]j0?ÿ0?ÿ00...r€00€00W„z†a%j a000aRelease
€}À0TMTMÁg|]ÁEÄÄ0?ÿ00000000†0...Y...[000À0TMTMÁg|]ÁEÄÄ0?ÿ0?ÿ00...r€00€00W„{†a%j a000a
Modification
€}À0TMTMÁv¼\j0?ÿ00000000†0...Z...\000À0TMTMÁv¼\j0?ÿ0?ÿ00...r€00€00W„|†a%j a000a11.2
€}À0TMTMÁv¼\ÁEÄÄ0?ÿ00000000†0...[...][000À0TMTMÁv¼\ÁEÄÄ0?ÿ0?ÿ00...r€00€00W„}†a%j a000aThis
command was introduced.
€}À0TMTMÁ...ü[j>?p00000~00†0...^000À0TMTMÁ...ü[j>?p0?ÿ00...r€00€00W„~†a%j a000a
12.2(13)T
€}À0TMTMÁ...ü[ÁEÄÄ>?p00000000†0...][...][000À0TMTMÁ...ü[ÁEÄÄ>?p>?p00...r€00€000„0†a%j a000!@This
command was made available in Frame Relay VC-bundle-member
P•j©000A0configuration mode.
€}À0TMTMÁi<Yj0?ÿ000000~00†0...^...`000À0TMTMÁi<Yj0?ÿ0?ÿ00...r€00€00W...0†a%j a000a
12.2(28)SB
€}À0TMTMÁi<YÁEÄÄ0?ÿ00000000†0..._...a000À0TMTMÁi<YÁEÄÄ0?ÿ0?ÿ00...r€00€00W...0†a%j a000a?This
command was integrated into CiscoIOS Release 12.2(28)SB.
€}À0TMTMÁ°|Xj0?ÿ00000000†0...`...b000À0TMTMÁ°|Xj0?ÿ0?ÿ00...r€00€00W...0†a%j a000a

€|Àè^{TTTT}Á°|XÁÈÃÀ?ÿ□□□ð²□□†□...a...c□□□Àè^{TTTT}Á°|XÁÈÃÀ?ÿ?ÿ□□...r€□□€□□W...□□†a^a%j^a□□□a@This
command was integrated into Cisco IOS Release 12.2(33)SRA.

command is supported in the Cisco IOS Release 12.2SX train. Support for a specific 12.2SX release of this train depends on your feature set,

€)ÀèTMÁæüTÁÉÄÄ?ý□□□ö°□□†□...e□□□□ÀèTMÁæüTÁÉÄÄ?ý□?ý□□...r€□□€□W...□†a%□j^a□□□aEThis
command was □□ B□ integrated into Cisco IOS Release 12.2(33)SCF.

€}Á□ÿÿÂd.ĚÁ, â□□?ÿ□□□ôî□□†2...g...i□□□Á□ÿÿÂd.ĚÁ, â□□?ÿ□?ÿ□□†J€□□€□□WŽ□9†ªª%jª□□□`

Description

€}ÀÿÿÂsnÊÀ,,>?pööðö+2...h...jÀÿÿÂsnÊÀ,,>?p?ÿ+J€€WŽ

†^{aa%}j^aframe-relay interface-dlci

€}ÁÿÿÂsnÊÀ,â>?pööðö+2...i...kÁÿÿÂsnÊÀ,â>?p>p+J€€Ž-†^{aa%}j^a!EAssigns a DLCI to a specified Frame Relay subinterface on the router P•j@Aor access server.

€}ÀÿÿÂŽ®ÊÀ,,>?pööðö+2...j...lÀÿÿÂŽ®ÊÀ,,>?p?ÿ+J€€WŽ

†^{aa%}j^aframe-relay map

€}ÁÿÿÂŽ®ÊÀ,â>?pööðö+2...k...mÀÿÿÂŽ®ÊÀ,â>?p>p+J€€Ž

†^{aa%}j^a!DDefines mapping between a destination protocol address and the DLCI P•j@A,used to connect to the destination address.

€}ÀÿÿÂ©îÊÀ,,>?pööðö+2...l...nÀÿÿÂ©îÊÀ,,>?p?ÿ+J€€WŽ!

†^{aa%}j^aframe-relay vc-bundle

€}ÁÿÿÂ©îÊÀ,â>?pööðö+2...mÀÿÿÂ©îÊÀ,â>?p>p+J€€Ž"†^{aa%}j^a!BCreates a Frame Relay PVC bundle and enters Frame Relay VC-bundle P•j@Aconfiguration mode.

€}À^{TMTM}À`?ÿÀ,,>?ÿööðü+7...pÀ<sup>TMTM</sup>À`?ÿÀ,,>?ÿ?ÿ...G€€-WŽ#

†^{aa%}j^amap-class frame-relay

€}Á^{TMTM}À`?ÿÀ,â>?ÿööð+7...o...qÀ<sup>TMTM</sup>À`?ÿÀ,â>?ÿ?ÿ...G€€-WŽ\$†^{aa%}j^a`ACreates a map class for which unique QoS values can be assigned.

€}À^{TMTM}ÀöpÀ,,>?pööðö+7...pÀ^{TMTM}ÀöpÀ,,>?p?ÿ...G€€,LWŽ% †^{aa%}j^a`pvc (frame-relay vc-bundle)

\$Ág↓]Â

TMTM ÄŽčö□□□òl□□†□...Q...t□□□\$Ág|]Â

TM™ ÄẀȳÖÄẀȳÖ□□□□□□&□□...Y...f†□□□□□□...Y...[...]..._...a...c...e□□□

À^{TM™}QÁ°ÀÁÿñï6...S...~À^{TM™}QÁ°ÀÁÿñÀÁÿñ

□□□□

Only cells from the same VC or VP can be packed into one MPLS or L2TPv3 packet. Cells from different connections cannot be concatenated into the same packet.

When you change, enable, or disable the cell-packing attributes, the ATM VC or VP and the MPLS or L2TPv3 emulated VC are reestablished.

If a provider edge (PE) router does not support cell packing, the PE routers send only one cell per MPLS or L2TPv3 packet.

The number of packed cells need not match between the PE routers. The two PE routers agree on the lower of the two values. For example, if PE1 is allowed to pack 10 cells per MPLS or L2TPv3 packet and PE2 is allowed to pack 20 cells per MPLS or L2TPv3 packet, the two PE routers would agree to send no more than 10 cells per packet.

If the number of cells packed by the peer PE router exceeds the limit, the packet is dropped.

If you issue the `cell-packing` command without first specifying the `atm mcpt-timers` command, you get the following error:

Please set mcpt values first

□†^a aŠ™Ä□□□e□

²ffÀĬ/□Â

TMTM ?p□□□ö>□□‡□‡>†□□□²ffÀĬ/□Â

TMTM ?p ?p□□□□□□R□□ŠDŠM‡□□ □□□ŠD□□□

ATM_MÂ<SÁ°ÂkiÂki...t!ÂTM_MÂ<SÁ°ÂkiÂki...
 □†aaSTM_MÂ□□%iUse this command with DLCIs that were created using the □ □ iframe-
 relay interface-dlci □ □ B □ command and 0-TM_MÂ□□□□bwith DLCIs that were created as
 permanent virtual circuit (PVC) bundle members within a specified □□□□iFrame
 Relay PVC bundle. The PVC bundle is created using the □ □ iframe-relay vc-
 bundle □ □ B □ command. The □□□□gFrame Relay PVC bundle member DLCIs are then
 created by using the □ □ ifpvcs □ □ B □ command in Frame Relay □□□E-VC-bundle
 configuration mode.

A class applied to the interface is applied to all PVC members in a PVC bundle. A class applied to an individual PVC bundle member supersedes the class applied at the interface level.

Àh™½□□□elThe map class is created by using the □□
β□ command in global configuration mode.

Í□map-class frame-relay□□

2ffÁçž#ÀRİíïîö'ïr...K...x²ffÁçž#ÀRİÍíïîïtww...G†ªš™Ä
d

ÀöÿŸÁčŽ#Á°□□□□i□□□□ö(□□†r...w...{□□□□ÀöÿŸÁčŽ#Á°□□□□i□□□□i□□□□□□□□□□□□†t□□□□□□□□w...H†^aŠ™Ä
□□□□d□Map-list configuration

```
A[TMTM]QÄ°[ ]Ägÿñ[ ]d-[ ][ ]! [ ]Ä[TMTM]QÄ°[ ]ÄgÿñÄgÿñ[ ] [ ] [ ]
[ ] [ ] [ ] [ ] [ ] [ ] [ ]...X[ ]†aa†aa[ ]$[ ]Two maps are set up because these protocol-
and-address combinations are heading for the same [ ]'a[ ]D{destination, as
defined by the [ ]
[ ]dest-addr[ ] [ ] keyword and the values following it in the [ ] ümap-
list[ ] [ ] keyword.
[ ]...Y([...]UTcUR[ ]dJmap-list maplist1 source-addr E164 14085551212 dest-addr E164
15085551212
[ ]...Z~UP[ ]d"[ ]ip 131.108.177.100 class classip
[ ]...[ ][ ]d#[ ]appletalk 1000.2 class classapple
[ ]...\[ ]d[ ]
[ ]...][ ]†aaÄK^a [ ]doIn the following example, the [ ]
[ ]trigger[ ] [ ] keyword allows AppleTalk broadcast packets to trigger an SVC:
[ ]...^(...)UTÄ[UI[ ]d,[ ]ip 172.21.177.1 class class1 broadcast ietf
Q..._ÄeUG[ ]d5appletalk 1000.2 class class1 broadcast trigger ietf
```

ÀÿÿÁ½üZÁ°™iđ&‰~Š, <ÀÿÿÁ½üZÁ°™i™iŠ, =^
†^aŠ™Ä\$After this command is processed on the LAN interfaces Ethernet,
Fiber Distributed Data Interface P-™ÄDa(FDDI), and Token Ring™all the X.25-
related interface configuration commands are made available.

²f f Ā Ì □ < À R Ĩ í ſ i □ □ □ ö) □ □ † r ... x ... } □ □ □² f f Ā Ì □ < À R Ĩ Í ſ i □ □ i □ □ □ □ □ □ □ □ □ □ t □ □ □ □ □ □ □ □ □ □ t □ □ □ □ □ □ W ... S □ + a a Š™ Á □ □ @ l □ □ □ Å š □

ÀÿÿÁ

oÁ°iòÐ‡††ÀÿÿÁ

oÁ°i"W<

†^{aa}Š™Äd, WAAS Express class maps are not configured.

²ffÁÍ¼UÂ

TM™™Àp?ø□□□ö*□□†r...{†□□□□²ffÁÍ¼UÂ

TM™™Àp?øÀp?ø□□□□□□□)□□†□□†□†t□□□□□†□†□†□†□†□□□□

[illegible]

2ffQÀRÌÍïïïïïAïï†ïï...

□□□²ffQÀRÌÍîï□□□□□□□□□□†€û□□□...5..7..9...;□...5..7..9...;W,,l□†ªªŠ™Ä□□@h□□□À□□

AdÃs††'

²ffÁ
oÀRÌÍiöö?‡u...|²ffÁ
oÀRÌÍiööi‡!W< ‡ªŠ™Äd
²ffQÂ
™™™Äs‡²ffQÂ
™™™ÄW‡... ŠiàRìí

[illegible]

[illegible]

AdÃs††(

[illegible]

```

    Åä Åö ÁM ?ÿ | €  W...; †ªª`bProtocol address. The
bridge  B and
clns  B keywords do not use protocol addresses.
€}À™Àä_Á_fg,?pss-††
†
À™Àä_Á_fg,?p?ÿ† | €!W...<
ªªªª`
map-class
€}Àä_ÁM,?pss/††

```

†

DName of the map class from which
to derive quality of service (QoS) P•j©@@
information.

€}À^{TMTM}ÀpïÀ_fg?ÿs1††
†^{TMTM}À^{TMTM}ÀpïÀ_fg?ÿ?ÿ†|€€"w...>
†^{aa}j^a~
broadcast
€}À^{aa}ÀpïÁM?ÿs3††

†ÁÀîÁ?ÿ|€€"W...?†ªj`F(Optional) Allows broadcasts on
this switched virtual circuit (SVC).
€}À™Á

/À_fg\$?ýsss5trttÀ™™Á

/À_fg\$?ý?ÿ†|€€€#w...@
†aa%jª`trigger
€}ÀáÁ

/ÁM§?ýs7†r†ÀáÁ

/[ÁM\$?ý\$?ý|€€#...A†ªªª M(Optional) Enables a broadcast packet to trigger an SVC. If an SVC that uses p•j@Nthis map class already exists, the SVC will carry the broadcast. This keyword @Bcan be configured only if Ñ broadcast Ñ is also configured.

€}À™Á5o

À_fg>?psss9†††À™Á5o

À_fg>?p?ý|€€\$W...B

†ªªªª`ietf

€}ÁÁÁ5o

ÁM>?psss;†††ÁÁÁ5o

ÁM>?p>?p†|€€\$...C†ªªª B(Optional) Specifies RFC 1490 encapsulation. The default is Cisco P•j@encapsulation.

€}À™Á¼Uj?ýsssC†††À™Á¼Uj?ý?ý...}€€€W...I†ªªªª`Release

€}Ä™Á¼UAG?ýsssE†††Ä™Á¼UAG?ý?ý...}€€€W...J†ªªªª`

Modification

€}À™ÁÜÜTj?ýsssG†††À™ÁÜÜTj?ý?ý...}€€€&W...K†ªªªª`11.2

€}Ä™ÁÜÜTAG?ýsssI†††Ä™ÁÜÜTAG?ý?ý...}€€€&W...L†ªªªª`This command was introduced.

€}À™Ái<Sj>?psssK†††À™Ái<Sj>?p?ý...}€€€'W...M†ªªªª`

12.2(13)T

€}Ä™Ái<SÁG>?psssM†††Ä™Ái<SÁG>?p>?p...}€€€'...N†ªªªª VThe

Ñ vines Ñ and Ñ xns Ñ arguments were removed because

Banyan VINES and P•j@IXerox Network Systems are no longer available in the Cisco IOS software.

€}À™Á|Qj?ýsssO†††À™Á|Qj?ý?ý...}€€€(W...O†ªªªª`

12.2(33)SRA

€}Àè™™™Â|QÁG???ý???sQ??†r†?†????Àè™™™Â|QÁG???ý??ý?...}€???€(w...P†ªªªjª???`@This command was integrated into Cisco IOS Release 12.2(33)SRA.

€}À™™™Â¼PjS?ý???sS??†r†?†????À™™™Â¼PjS?ý??ý?...}€???€)w...Q†ªªªjª???`12.2SX

€}Àè™™™Â¼PÁG??S?ý???sU??†r†????Àè™™™Â¼PÁG??S?ýS?ý?...}€???€)??...R†ªªªjª??? IThis command is supported in the Cisco IOS Release 12.2SX train. Support p•j©????Hin a specific 12.2SX release of this train depends on your feature set, ???@!platform, and platform hardware.

€}ÀüÿÿÄÖ/

j??ý???sf??‡??†???ÀüÿÿÄÖ/

j??ý??ý??†S€???€*w...`9†ªªªjª???`Command

€}ÀüÿÿÄÖ/

ÁD???ý???sh??‡†-† ???ÀüÿÿÄÖ/

ÁD???ý??ý??†S€???€*w...a9†ªªªjª???`

Description

€}ÀÿÿÀå j?ÿsjs!ÀÿÿÀå j?ÿ?ÿ†S€€+W...b:†ªj`map-
class frame-relay

€}ÀÿÿÀå ÁD?ÿsl††"ÀÿÿÀå

ÁD?ÿ?ÿ†S€€+W...c†ªj`7Specifies a map class to define QoS
values for an SVC.

€}ÀÿÿÀå_j>?pssn††!†#ÀÿÿÀå_j>?p?ÿ†S€€,W...d:†ªj` map-list

€}ÀÿÿÀå AD>?pssp††"ÀÿÿÀå AD>?p?p†S€,...e†ªj`

LSpecifies a map group and links it to a local E.164 or X.121 source address

P•j@Fand a remote E.164 or X.121 destination address for Frame Relay SVCs.

\$QÂ

TMTM□□□□iI□□†□□...□□□□\$QÂ

TMTM□□□□□□□□□□□□†□€x□□□□□W,,n□

†^{aa}llc lÀ'asÀ's

```
ÄÿÿÄYÜMÁ°™iööö,ötr†&°ÄÿÿÄYÜMÁ°™i™iööööööööööttööööö...U†aaŠTMÄ
ö$eThis command is used for Frame Relay SVCs; the parameters within the map
class are used to negotiate P-™ÄLLfor network resources.°Ä, The class is
associated with a static map that is configured under a map list.
```

²ffÂëeÀRÌÍiöö-
tr†%†(²ffÂëeÀRÌÍiitw...V†ªªŠ™Äd

ÀÿŸÁ5^,Á°□□□ï□□□□ò0††††+□□□ÀÿŸÁ5^,Á°□□□ï□□□□□□□□□□□□□□□□†□□\$□□□□□W<

□†^{aa}Š[™]Ä□□□d-Global configuration (config)

ÀÿÿÂëeÁ°À@>ö.††&ÀÿÿÂëeÁ°À@>±i†t...W†aaŠ™
Ä\$eIn the following example, if IP triggers the call, the SVC is set up with
the QoS parameters defined p-™Äwithin the class òclassipÓ. However, if
AppleTalk triggers the call, the SVC is set up with the QoS ¶¶¶¶eparameters
defined in the class òclassappleÓ. An SVC triggered by either protocol results
in two SVC ¶¶¶D(maps, one for IP and one for AppleTalk.

[illegible]

ÀTMÁïÁ°Á¼úöö‡†SÀTMÁïÁ°Á¼úšÿp‡...g†aa†a
aTMdTM
Q...h-^a@TMdTM

[illegible]

ÀTMÀ.ÿÿÁ°TMïTMöCTM‡'‡l‡-
TMÀTMÀ.ÿÿÁ°TMïTMïTM)0TMW...nTM†TMŠTMÄTMd+This command has no
arguments or keywords.

\$ÀáìÀRÌÍìööD‡'†,†/‡‡\$ÀáìÀRÌÍììöööööööööö‡)1‡‡‡‡w...o†^aŠ™Ä‡‡d

ÀTMÀÆ¿üÁ°[°]ÂC@[°]î¿[°]†7...G[°]ÀTMÀÆ¿üÁ°[°]ÂC@[°]%ÿÿ[°]†9[°]
WZ([°]†aa†aa[°]`[°]

ÀTMÀáíÁ°TMïTMöETM†'†-
†1TMÀTMÀáíÁ°TMïTMïTM†)2TMW...p†^aŠTMÄTMdPrivileged EXEC (#)

²ffÂ ¨ Ä
TMTMÀ²öaööòôöþö†)ööö²ffÂ ¨ Ä
TMTMÀ²öaÄHÿûööööööTöŠcŠkþö, öööŠcŠeŠhŠjööö

\$Á

Þ/ÀRÌÍïööFþ'†/†6\$Á

[illegible]

□□Âd□□Ã□□□□□□s%□□□□□□□□□†4†4)□□□□□□□□

ÀTMÁçëoÁ°Àè'öG‡'†NÀTMÁçëoÁ°Àè'‰ÿö‡)9W††aa†a
a²ffQÂ
TMÂsE†2²ffQÂ
TMÂ††9†H†J ŠìÀRìÍ

²ffÁèknÂ

™™™ÀQ¿úöM‡`‡g†u²ffÁèknÂ

™™™ÀQ¿úÀQ¿úQŠyŠ~‡bEŠyŠ{Š}

\$Á

HÂ
TMTM ÀTÿú□□□òÝ□□‡'†1†L□□□\$Á

HÂ
TMTM ÄTÿùÄTÿú□□□□□□+□□†:†A‡)□4□□□†:†<†>†@□□□

AdÃ's'99*€}ÀTMTMÄÄ/Àu>?pssã
‡n†UÀTMTMÄÄ/Àu>?p?ÿ†M€#€4W†
†aa%ja`session
\$QÂ
TMTMÄs"†7\$QÂ
TMTMÄ†4†t...G†. ŠÌÀRÌÍ€}ÀTMTMÄ

HÀiÿð?ÿÄ†'†;ÄTMTMÄ

HÀiÿð?ÿ?ÿ†6€ €€-W...q†aa%ja`Release
€}ÀëTMTMŽÁ

HÁD?ÿÄ†'†:†<ÄëTMTMŽÁ

HÁD?ÿ?ÿ†6€ €€-W...r†aa%ja`
Modification

€}ÀTMTMÄMGÀiÿð?ÿÄ†'†;†=ÄTMTMÄMGÀiÿð?ÿ?ÿ†6€ €€.W...s†aa%ja`10.0
€}ÀëTMTMŽÁMGÁD?ÿÄ†'†<†>ÄëTMTMŽÁMGÁD?ÿ?ÿ†6€ €€.W...t†aa%ja`This
command was introduced.
€}ÀTMTMÄ+FAiÿð?ÿÄ†'†=†?ÄTMTMÄ+FAiÿð?ÿ?ÿ†6€ €€/W...u†aa%ja`

12.2(33)SRA

€}Àè™ŽÁ+□FÁD□□□?ý□□□Ä□□‡'†>†@□□□Àè™ŽÁ+□FÁD□□□?ý□?ý□□†6€ □€/□W...v□†ªªjª□□□`@This command was integrated into Cisco IOS Release 12.2(33)SRA.

€}À□™™™Á:ÍÈÀiÿö\$?ý□□□Ä!□□‡'†?†A□□□À□™™™Á:ÍÈÀiÿö\$?ý□?ý□□†6€

□€0□W...w□†ªªjª□□□`□12.2SX

€}Àè™ŽÁ:ÍÈÁD□□\$?ý□□□Ä#□□‡'†@□□□□Àè™ŽÁ:ÍÈÁD□□\$?ý\$?ý□□†6€ □€0□□□...x□†ªªjª□□□ IThis command is supported in the Cisco IOS Release 12.2SX train. Support □•j©□□□□Hin a specific 12.2SX release of this train depends on your feature set, P–
ÿp□□□@!platform, and platform hardware.

€}À□™™™Á,+rÀqff□?ý□□□Ä*□□‡'□†C□□□À□™™™Á,+rÀqff□?ý□?ý□□†N€!□€1□W...}9†ªªjª□□□`□Comma
nd

€}ÀòÿÿÁ,+rÁ;□□□?ý□□□Ä,□□‡'†B†D□□□ÀòÿÿÁ,+rÁ;□□□?ý□?ý□□†N€!□€1□W...~9†ªªjª□□□`

Description

€}ÀTMÁÇkqÀqff?ÿÄ.Ç'†C†ETMÀTMÁÇkqÀqff?ÿ?ÿ†N€!€2W...:†^aaj^a``fram
e-relay inverse-arp

€}ÀöÿÁÇkqÁ;Ç?ÿÄ0Ç'†D†FTMÀöÿÁÇkqÁ;Ç?ÿ?ÿ†N€!€2W††^aaj^a``@Reen
ables Inverse ARP on a specified interface or subinterface.

€}ÀTMÁÖ«pÀqff?ÿÄ2Ç'†E†GTMÁÖ«pÀqff?ÿ?ÿ†N€!€3W†:†^aaj^a``show
frame-relay map

€}ÀöÿÁÖ«pÁ;Ç?ÿÄ4Ç'†FTMÀöÿÁÖ«pÁ;Ç?ÿ?ÿ†N€!€3W††^aaj^a``HDispl
ays the current map entries and information about the connections.

```

AbyyQÁ° Áÿ2 é3 2 I ÁÿyQÁ° Áÿ2 Áÿ2 + + 4 ( ...UT...
□
□...UR a map-class frame-relay slow-vcs
□... a frame-relay cir out 9600
□... a
□... †aa@a!eThe following example shows how to apply a map class to a DLCI
for which a  frame-relay map  B °a; AVstatement exists. The 
    frame-relay interface-dlci  B command must also be used.
□... (...UTAJUJ a)interface serial 0.2 point-to-multipoint
□... ATUH a$ frame-relay map ip 172.16.13.2 100
□... a frame-relay interface-dlci 100
□... a class slow-vcs
□... a
□... a map-class frame-relay slow_vcs
□... a' frame-relay traffic-rate 56000 128000
□... - a frame-relay idle-timer 30
□... a
□... †aaÄ×aŽ!eThe following example creates a Frame Relay map class named
class1 and shows how to assign it to PVC Ä±a A3300 in a Frame Relay PVC
bundle named MP-3-static:
□...! (...UTAAU6 a map-class frame-relay class1
□... "ÄU4 a interface serial 1/4
□... # a3 frame-relay map ip 10.2.2.2 vc-bundle MP-3-static
□... $ a# frame-relay vc-bundle MP-3-static
□... & a pvc 300
□... ' a
□class HI
□... (+†UTÁ
U* !Example of the class Command for Defining Traffic Classes Inside a 802.1p
Domain in ÄÖ( A-Cisco IOS Release 12.2(33)SCF
□... ) †aaÄ%a| !`The following example shows how to define traffic classes for
the 8021.p domain with packet CoS Ä1a{ A values:
□... * (...UTAAU$ a enable
□... +AKU" a configure terminal
□... , a policy-map cos7
□... - a
□class cos2
□... . a

```

```

set cos 2
/
end
0+†UTÁ<U!SExample of the class Command for Defining Traffic Classes Inside
an MPLS Domain in Á-ŮA-CiscoIOSRelease12.2(33)SCF
1†ªªÁ¥ªj!^The following example shows how to define traffic classes for
the MPLS domain with packet EXP Á±ªiAvalues:
2(...UTÁÁUenable
ŠÄËUconfigure terminal
Žaapolicy-map exp7
Ža
class exp7
Ža"set mpls experimental topmost 2
AŽaend

```

[illegible]

²ffÂd.ËÂ

™™™ÀkÑ5□□□ê5□□†2†I□□□□²ffÂd.ËÂ

™™™ÀkÑ5À<□ö□□□□□□'□□...g...n†4□□□□□...g...i...k...m□...o...q□□

\$ÄÿüÀRÌÍïïïïïöNïïïn^ïïMïïï\$ÄÿüÀRÌÍïïïïïïïïïïïïïïïpïIïïïïï8ïVïXïZï\ï^ï`ï8
ïVïXïZï\ï^ï`wïïïïaaŠ™Äïïï@lïïïÀ£ï

\$Á~
BÀRÌÍiïòp‡'†6†y\$Á~
BÀRÌÍiïi‡)5w...z†^{aa}Š™Äd

\$ÀÂ/□Â

^{TMTM}À%¿ò□□□ö0□□‡n†K†0□□\$ÀÂ/□Â

^{TMTM}À%¿òÀ%¿ò□□□□□□-□□†8†a‡p□J□□□†8†V†X†Z†\†^†`□□□

\$Á, +rÂ

^{TMTM}-¿ý□□□òß□□‡'†z†3□□□\$Á, +rÂ

^{TMTM}-¿ý-¿ý□□□□□□, □□†B†G‡)□8□□□†B†D†F□□□

\$ÄÿìÀRÌÍìööPñM†P\$ÄÿìÀRÌÍììööööööööööööötpKöööW††^aŠ™Äööd

[illegible]

²ffÁ`|^Â

TMTMžp□□□i...□□‡□†+†T□□□²ffÁ`|^Â

TMTMžpžp□□□□□□S□□Š0Šb‡□□&□□□Š0ŠR□□□

\$ÁÉþ ÀRÌÍïïïïïÖRïï†n†P†sïïï\$ÁÉþ
ÀRÌÍïïïïïïïïïïïïïïï†pMïïïï†b†dï†b†dW†ïï†^aaŠ™Äïï@lïïïÀ▯

†ªªjª` tunnel
€}Àö™šÀû Á; >?p s i n†X†ZÀö™šÀû Á; >?p>?p†M€#€6†
ªªªjª H(Optional) Specifies that L2TP session counters for sessions
associated P•j©@*with a particular tunnel will be cleared.
€}Àö™šÀû Á; >?p s i n†Y†[Àö™šÀû Á; >?p>?p†M€#€7†

†aa%ja id Îlocal-id R•j@[@ Îlocal-session-id β]
€}Àö™šÁiÁ; >?psssñ†n†Z†\Àö™šÁiÁ; >?p>?p†M€#€7†††aa%ja
H(Optional) Specifies the tunnel for which L2TP session counters will be
P•j@Hcleared using the local tunnel ID, and optionally the local session ID.
€}Àö™šÁ2/
Àu>?pssó†n†[†]Àö™šÁ2/
Àu>?p>?p†M€#€8††
†aa%ja

remote-name R

•j@remote-name local-name

€}Àö™šÁ2/

Á;[]>?p[]s[]n[]\[]^[]Àö™šÁ2/

Á;[]>?p[]?p[]M€#[]€8[]t[]t[]a[]j[]a[] H(Optional) Specifies the tunnel for which L2TP session counters will be P•j@<cleared using the remote tunnel name and local tunnel name.

€}Àö™šÁMo

Àu[]>?p[]s÷[]n[]]t[]_[]Àö™šÁMo

Àu[]>?p[]?y[]t[]M€#[]€9[]w[]t[]

t[]a[]j[]a[]`[]username [] î[]username

€}Àö™šÁMo

Á;[]>?p[]sù[]n[]^t[]`[]Àö™šÁMo

Á;[]>?p[]?p[]M€#[]€9[]t[]t[]a[]j[]a[] L(Optional) Specifies that L2TP session counters for the sessions associated P•j@,with a particular username will be cleared.

€}Àö™šÁh- Àu[]>?p[]sù[]n[]_t[]a[]Àö™šÁh- Àu[]>?p[]?y[]t[]M€#[]€:[]w[]t[]

t[]a[]j[]a[]`[]vcid [] î[]vcid

€}Àö™šÁh- Á;[]>?p[]sý[]n[]`[]Àö™šÁh- Á;[]>?p[]?p[]M€#[]€:[]t[]t[]a[]j[]a[] L(Optional) Specifies that L2TP session counters for the sessions associated P•j@=with a particular virtual circuit ID (VCID) will be cleared.

€}Àö™šÁË

9l[]?y[]t[]n[]c[]Àö™šÁË

9l[]?y[]?y[]t[]s€\$[]€;[]w[]t[]t[]a[]j[]a[]`[]Release

€}Àí™šÁË

9ÁD[]?y[]t[]n[]b[]d[]Àí™šÁË

9ÁD[]?y[]?y[]t[]s€\$[]€;[]w[]t[]t[]a[]j[]a[]`[]

Modification

€}Àö™šÁÚM8l[]?y[]t[]n[]t[]c[]t[]Àö™šÁÚM8l[]?y[]?y[]t[]s€\$[]€<[]w[]t[]t[]a[]j[]a[]`[]

12.2(28)SB

€}Àí™šÁÚM8ÁD[]?y[]t[]

[]n[]d[]Àí™šÁÚM8ÁD[]?y[]?y[]t[]s€\$[]€<[]w[]t[]t[]a[]j[]a[]`[]This command was introduced.

€}Àö™šÁR/[]l[]?y[]t[]

^[]t[]g[]Àö™šÁR/[]l[]?y[]?y[]t[]E-€%[]€=[]w[]t[]&[]t[]a[]j[]a[]`[]Command

€}Àí™šÁR/[]ÁD[]?y[]t[]

^[]t[]f[]h[]Àí™šÁR/[]ÁD[]?y[]?y[]t[]E-€%[]€=[]w[]t[]'[]t[]a[]j[]a[]`[]

Description

€}ÀTMÀao□l>?p□□□t□□□^□†gti□□□ÀTMÀao□l>?p>?p□□E-€%□€>□□†(:†^aa%j^a□□□ □clear
l2tun counters P•j©□□□@

tunnel l2tp

€}Ài^{TMTM}ÀaoÁD>?p⁰⁰⁰⁰t⁰⁰⁰⁰^⁰†h†j⁰⁰⁰⁰Ài^{TMTM}ÀaoÁD>?p?ÿ⁰⁰⁰⁰€-€%€>W†)⁰†^aa%⁰⁰j^a⁰⁰⁰⁰`IClears global or per-tunnel control message statistics for L2TP tunnels.

€}À^{TMTM}À|⁰l⁰?ÿ⁰⁰⁰⁰t⁰⁰⁰⁰^⁰†i†k⁰⁰⁰⁰À^{TMTM}À|⁰l⁰?ÿ⁰⁰?ÿ⁰⁰⁰⁰€-€%€?W†*:†^aa%⁰⁰j^a⁰⁰⁰⁰`

show l2tun

€}Ài^{TMTM}À|⁰ÁD⁰⁰⁰⁰?ÿ⁰⁰⁰⁰t-

⁰⁰^⁰†j†l⁰⁰⁰⁰Ài^{TMTM}À|⁰ÁD⁰⁰⁰⁰?ÿ⁰⁰?ÿ⁰⁰⁰⁰€-€%€?W†+⁰†^aa%⁰⁰j^a⁰⁰⁰⁰`ADisplays general information about Layer 2 tunnels and sessions.

€}À^{TMTM}À<ï⁰⁰l>?p⁰⁰⁰⁰t!⁰

^⁰†k†m⁰⁰⁰⁰À^{TMTM}À<ï⁰⁰l>?p>?p⁰⁰⁰⁰€-€%€@⁰⁰†,:†^aa%⁰⁰j^a⁰⁰⁰⁰ show l2tun counters P•j©⁰⁰⁰⁰@

tunnel l2tp

€}Ài^{TMTM}À<iÁD>?p⁰⁰⁰⁰t#

^⁰†††n⁰⁰⁰⁰Ài^{TMTM}À<iÁD>?p>?p⁰⁰⁰E-€%€@⁰⁰†-†^aa%j^a⁰⁰⁰ NDisplays global or per-tunnel control message statistics for L2TP tunnels, or P•j⁰⁰⁰⁰@Ftoggles the recording of per-tunnel statistics for a specific tunnel.

€}À⁰^{TMTM}ÀS/0l>?p⁰⁰⁰⁰t%⁰⁰^⁰†††o⁰⁰⁰⁰À⁰^{TMTM}ÀS/0l>?p>?y⁰⁰⁰E-€%€A⁰W†.:†^aa%j^a⁰⁰⁰`⁰show l2tun session

€}Ài^{TMTM}ÀS/0ÁD>?p⁰⁰⁰⁰t'00^⁰†††p⁰⁰⁰⁰Ài^{TMTM}ÀS/0ÁD>?p>?p⁰⁰⁰E-€%€A⁰⁰†/†^aa%j^a⁰⁰⁰ NDisplays the current state of Layer 2 sessions and protocol information about P•j⁰⁰⁰⁰@L2TP control channels.

€}À⁰^{TMTM}ÀÂo0l\$?y⁰⁰⁰⁰t)00^⁰†††q⁰⁰⁰⁰À⁰^{TMTM}ÀÂo0l\$?y>?y⁰⁰⁰E-€%€B⁰W†0:†^aa%j^a⁰⁰⁰`⁰show l2tun tunnel

€}Ài^{TMTM}ÀÂo0ÁD0\$?y⁰⁰⁰⁰t+00^⁰†††p⁰⁰⁰⁰Ài^{TMTM}ÀÂo0ÁD0\$?y\$?y⁰⁰⁰E-€%€B⁰⁰†1†^aa%j^a⁰⁰⁰ DDisplays the current state of Layer 2 tunnels and information about

p•j⁰⁰⁰⁰⁰⁰Iconfigured tunnels, including local and remote L2TP hostnames, aggregate ⁰⁰⁰@0packet counts, and control channel information.

Adt5ttt+

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9Â

TMTMžpööS‡n†R†~\$ÁĚ

9Â

TMTMžpžp.....‡b†e†pN‡b†d²ffQÂ

TMTMÂ.....t8‡r²ffQÂ

TMTMÂ.....†9‡...‡(ŠììÀRìí

ÀÿÿÂ<+hÁ°À"Ô~òç‡`†5ÀÿÿÂ<+hÁ°À"Ô~%ÿÿ‡bFw<†aa†a
a d

[illegible]

\$QÂ

TMTM□□□□êq□□‡'□‡j□□□\$QÂ

TMTM□□□□□□□□□□□□‡)□-□□□□W...j□

l"ÀcÄlear frame-relay-inarp

²ffQÂ

TMTM□□□□êc□□‡□□‡<□□□²ffQÂ

TMTM□□□□□□□□□□□□‡□□□□□□□□wŠ~□

lclass-map type waas

À°™™Á~

BÁ°æiŠ†L†zÀ°™™Á~

BÁ°æiæi)6...{†ªŠ™ÄdCThe following example clears
dynamically created Frame Relay maps:

w...|(...UTŠDm dclear frame-relay-inarp

\$A¶üYÀRiÍi□□□□i<□□‡'ty†N□□\$A¶üYÀRiÍi□□i□□□□□□□□□□‡)□7□□□□†B†D†F□†B†D†FW†□□
†^{aa}S^mÄ□□@l□□□Ài□

[illegible]

†

† □ † □ □ † □ †
†

†

†□†□w...D□†^aŠ[™]Ä□□@l□□□Ä~□

2ffÀ¹/□Â
TMTMÀ-□ô□□□êG□□†r†{...0□□□²ffÀ¹/□Â
TMTMÀ-□ôÀ-□ô□□□□□□(□□†□†□†t□

□□□†□†
†

†

† □ † □ □ □ □

\$Á-ÍFÂ

TMÀTÿúö³C<^0\$Á-ÍFÂ

TMÀTÿúÀTÿú9‡w‡~%E,‡w‡y‡{‡}‡‡

\$Â7ÀRÌÍïöT†n†s†\$Â7ÀRÌÍïïïïïïïïïïïïïïïp0ïïïïW†-†^aŠ™Äd

[illegible]

[illegible]


```

ATMA°7Á°TMi°öU°†n†~†°ÀTMA°7Á°TMiTMi°†pP°†-
†+a°5TMA°$qUse the ° Íclear l2tun counters ° ßcommand to clear the
counters for all sessions. Use the additional syntax P-TMÄ°DIoptions to clear
the counters for only the specified subset of sessions.

```

\$QÂ

TMTM □□□□òí□□‡n□^□□□□\$QÂ

TMTM □□□□□□□□□□□□‡p□G□□□□W†□□

lcclear l2tun counters

00Âd00Ã000000tG0000000000‡0‡0,00000000€}À0TMTMÀ¹/0l>?p000tZ0
^00‡0000À0TMTMÀ¹/0l>?p0?ÿ00‡"€'0€C0W†7
†aa%ja000`0authentication
0\$QÂ
TMTMÀ000000tJ00‡000000\$QÂ
TMTMÀ0000†t‡0...y†*00000000ŠÌÌÀRÌÍ0000€}À¹TMTMÀ¹/0ÁD00>?p000t\0
^0‡0‡0000À¹TMTMÀ¹/0ÁD00>?p>?p00‡"€'0€C00†80†aa%ja000J(Optional) Clears the L2TP
control channel authentication attribute-value P•j©000@0(AV) pair counters.
€}À0TMTMÀ000l>?p000t^0
^0‡0‡0000À0TMTMÀ000l>?p0?ÿ00‡"€'0€D0W†9
†aa%ja000`0id00Î0local-id
€}À¹TMTMÀ000ÁD00>?p000t`0
^0‡00000À¹TMTMÀ000ÁD00>?p>?p00‡"€'0€D00†:0†aa%ja000G(Optional) Clears the per-
tunnel control message counters for the L2TP P•j©000@\$tunnel with the specified
local ID.
€}À0TMTMÀ6ÍDl0?ÿ000tf00^00‡
000À0TMTMÀ6ÍDl0?ÿ0?ÿ00‡%€(0€E0W†>0†aa%ja000`0Release
€}À¹TMTMÀ6ÍDÁD000?ÿ000th00^0‡‡
000À¹TMTMÀ6ÍDÁD000?ÿ0?ÿ00‡%€(0€E0W†?0†aa%ja000`
Modification
€}À0TMTMÁF
Cl0?ÿ000tj00^0‡
‡

À^{TMTM}ÁF
C l?ý?ý%€(€Fw†@†a%j a`
12.2(28)SB
€}À^{TMTM}ÁF
CÁD??ýt l^†
À^{TMTM}ÁF
CÁD??ý?ý%€(€Fw†A†a%j a` This command was introduced.
€}À^{TMTM}ÁeZ| l?ýt}
^†

ÀTMÄZ| l?ÿ?ÿ‡?€)€Gw†P†^a%j^a Command
€}À¹TMÄZ|ÁD??ÿ‡t
^‡
‡À¹TMÄZ|ÁD??ÿ?ÿ‡?€)€Gw†Q†^a%j^a

Description

€}ÀTMÂtš{l>?p⁰⁰⁰t⁰⁰⁰^⁰‡

‡□□□À^{™™™}Âtš{l>?p>?p□□‡?€)□€H□□†R:†^aa%j^a□□□

monitor l2tun P•j©@@counters tunnel l2tp

€}Ài^{TMTM}Âtš{ÁD□>?p□□tf□□~□#□#□□□□Ài^{TMTM}Âtš{ÁD□>?p>?p□□#?€)□€H□□†S□†^{a a%}j^a□□□

PEnables or disables the collection of per-tunnel control message statistics for

P•j©@@

L2TP tunnels.

€}À^{TMTM}ÂÛyl>?p^{□□□}t...[□]

^^{□□}‡^{□□□□}Â^{TMTM}ÂÛyl>?p>?p^{□□}‡?€)[□]€I^{□□}†T:†^aa%j^a^{□□□} □show l2tun counters P•j©^{□□□}@

tunnel_l2tp

€}Àí^{TMTM}Â□ÚyÁD□□>?p□□□t‡□

`^[\t\ ]*\A[TM\ ]*\A[u\y\A]\>?p[\t\ ]*\Y[\t\ ]*\{?\}\(\)\[\]I[WtU]+^\+a%j[a\ ]*\`KDisplays global or per-tunnel control message statistics for L2TP tunnels.`

```
€)À«TMTMÂ«wL>?p□□t%□□~□#‡□□□À«TMTMÂ«wL>?p□?ÿ□‡?€)□EJ□W†V:†aa%j□a□□`□show l2tun  
tunnel
```

€}Àí^{TMTM}Â«□wÁD□□>?p□□□t<□□^□‡□□□□□Àí^{TMTM}Â«□wÁD□□>?p>?p□□‡?€)□€J□□†W□†^a‰_‰j^a□□□

LDisplays the current state of L2TP tunnels and information about configured

P•j©□□□@ tunnels.

AdÃt"t-€}ÀÁ

Hl?ýt1^;t&ÀÁ

Hl?ýt?ýttd€+€Kwt`ttaj`Release

2ffQÂ

Át-t-2ffQÂ

Átt)txt0 ŠììÀrìí

\$Â;|OÀRÌÍïïïïïöVïï‡n‡‡mïïï\$Â;|OÀRÌÍïïïïïïïïïïïïïïï‡pQïïïïïW‡ ï‡^aaŠ™Äïïïdï

À□ÿÿÀë[−]

Á° ÁäPò òù ^€- ÀÿÿÀë

Á°ÁäPò%ÿÿ^Uw†3†aa†aad

²ffÀ·ÿÿÀRÌÍïïïïïèïï‡`^

‡□□□²ffÀ·ÿýÀRÌÍ□ï□ï□□□□□□□□□□‡b□<□□□‡=Š_ŠaŠoŠq□‡=Š_ŠaŠoŠqwŠk□†ªªŠ™Ä□□@l□□
ÀÙ□

²ffÀ¹/□Â

™™™™ÀX?ú□□□□ié□□‡`‡□‡□□□□²ffÀ¹/□Â

™™™™ÀX?úÀX?ú□□□□□□□0□□‡=Šr‡b□=□□□‡=Š_ŠaŠoŠq□□□

²f f Á £ À Ò Í Î ï ë Š < 9 ²f f Á £ À Ò Í Î ï ï -
 , d w] † ^aŠ ^mÄ e

²f fÁ-o ÀRİí i i e t`t -²f fÁ-
o ÀRİí i i b> wšl†aa Š™Ä d

```
ÀÿÿÁ-óÁ°ííë‡‡‡ÀÿÿÁ-
óÁ°íí‡b?wŠm‡ªŠ™ÄdPrivileged EXEC (#)
```

[illegible]

W†B□†ªªŠ™Ä□□@l□□□À¨□

\$ÂÿñÀRÍíïîëw†…y†S\$ÂÿñÀRÍíïîï††-† †"-†-†
†"W...f†ªaS™Ä@LÀæ

[illegible]

\$Á

— ºÀRÌÍºiºººººömºº^º‡"…ºººº\$Á

— ºÀRÌÍºiººiºººººººººººººººº^ººZºººººW†<º†ªªŠ™Äºººdº

\$Á6ÍDÂ
TMTMžpönn^‡ ‡5\$Á6ÍDÂ
TMTMžpžp1‡ ‡

^[]{}‡ ‡
{€}Àí™™Á

HÁD{}?ÿ{}t»{}^;‡‡*{}Àí™™Á

HÁD{}?ÿ?ÿ{}‡d€+{}€Kw‡a‡ªªjª{}`
Modification

AdÃtS(†).}ÀÿÿÃ/À" "ÿtø%
†CÀÿÿÃ/À" "ÿÿÿ< €/EQW†v
†aa%ja`serial Î number
\$QÂ
TMTMÂt a†' \$QÂ
TMTMÂ††b†w†3
ŠiÀRiÍ}ÀTMTMÁMGl?ÿt½^;†&†+ÀTMTMÁMGl?ÿ?ÿ†d€+€LW†
b†aa%ja` 12.1(1)T
€}ÀiTMTMÁMGÁDÿt¿^;†*†, ÀiTMTMÁMGÁDÿ?ÿ?ÿ†d€+€LW†c†aa%ja` This
command was introduced.
€}ÀTMTMÁ+Fl?ÿtÁ^;†††-ÀTMTMÁ+Fl?ÿ?ÿ†d€+€Mw†d†aa%ja`

12.2(33)SRA

€}Àí^{TMTM}Á+□FÁD□□□?ý□□□tÃ□□^;‡,‡.□□□Àí^{TMTM}Á+□FÁD□□□?ý□?ý□□‡d€+□€M□W†e□†^aa%j^a□□□`@This command was integrated into Cisco IOS Release 12.2(33)SRA.

€}À^{TMTM}Á:ÍEls?ý□□□tÅ□□^;‡-‡/□□□À^{TMTM}Á:ÍEls?ý□?ý□□‡d€+□€N□W†f□†^aa%j^a□□□`□12.2SX

€}Àí^{TMTM}Á:ÍEÁD□□\$?ý□□□tÇ□□^;‡.□□□Àí^{TMTM}Á:ÍEÁD□□\$?ý\$?ý□□‡d€+□€N□□†g□†^aa%j^a□□□ IThis command is supported in the Cisco IOS Release 12.2SX train. Support p•j©□□□□Hin a specific 12.2SX release of this train depends on your feature set, □□□@!platform, and platform hardware.

€}À^{TMTM}Áí□Šl□?ý□□□tÐ□

^;□‡1□□□À^{TMTM}Áí□Šl□?ý□?ý□□^4€,□€O□W†n□†^aa%j^a□□□`□Command

€}Àí^{TMTM}Áí□ŠÁD□□□?ý□□□tÒ□

^;‡0‡2□□□Àí^{TMTM}Áí□ŠÁD□□□?ý□?ý□□^4€,□€O□W†o□†^aa%j^a□□□`

Description

€}À^{TMTM}ÁyZ%l?ÿtô
^;‡1‡3À^{TMTM}ÁyZ%l?ÿ?ÿ^4€,€Pw†p:†^aa%j^a

clear pppoe

€}Ài^{TMTM}ÁýZ%ÁD□□□?ÿ□□□tÖ□

^;‡2□□□Ài^{TMTM}ÁýZ%ÁD□□□?ÿ□?ÿ□□^4€,□€P□W†q□†^aa%j^a□□□`□Clears PPPoE sessions.

ÀTMÁqMBÁ°^oÀGi^oó^o~^o5^o6^oÀTMÁqMBÁ°^oÀGi^oÀGi^o~^o_^o†D^o†^{aa}
ŠTMÄ^odnUse the ^o ^o Í^oclear l2tun counters tunnel l2tp ^o ^o ß^ocommand to
clear the global L2TP control message counters.
†E>TMÄ^o\$qUse the ^o ^o Í^oclear l2tun counters tunnel l2tp id ^o ^o Î^olocal-id ^o
ß^ocommand to clear the per-tunnel L2TP control ^oŠTMÄ^oDBmessage counters
for the L2TP tunnel with the specified local ID.
†F,TMÄ^o\$eUse the ^o ^o Í^oclear l2tun counters tunnel l2tp authentication ^o
ß^ocommand to globally clear only the PÄTMÄ^oD^oauthentication counters.

[illegible]

[illegible]

ÀTMÁÕ<wÁ°Ärï

ö p ^ ‡ 6 ‡ 9 À º Á Õ < w º À r i

Àrì

□□ □□□□ □□□□^□□a□□□□□□†H□†aaŠ™Ä□□□dGThe following example clears the global L2TP control message counters:

□†I(...UTŠDm□□□□!clear l2tun counters tunnel l2tp

□†J□Dk□□□□d□

□†K□†aa™¿□□□\$hThe following example clears the per-tunnel L2TP control message counters for the tunnel with the local □»™%□□□D

ID 38360:

□†L(...UTÀKDg□□□□d*clear l2tun counters tunnel l2tp id 38360

□†MÄUDe□□□□d□

□†N□†aaÄ`™1□□□□dYThe following example clears the L2TP control channel authentication counters globally:

w†O(...UTÀpDb□□□□d0clear l2tun counters tunnel l2tp authentication

\$QÀRìíï÷0/I\$QÀRìíïïHf"W%q†aaŠ™Äd

[illegible]

```
ÄÿyÄ·ÿýÁ°ïöx^;^2†AÄÿyÄ·ÿýÁ°ïï= gWt]†aS™Ä  
d+This command has no arguments or keywords.
```

²ffÁX□BÂ

TM1TM1¿ü□□□îí□□‡`‡‡e□□□²ffÁX□BÂ

TM1TM1¿ü¹¿ü□□□□□□P□□ŠsŠx‡b□A□□□ŠsŠuŠw□□□

```

AÿÿpÁ°  ÅÄyü  éd  ‡  †x‡>  ÅÿÿpÁ°  ÅÄyüÅÄyü  ‡  <  †aa†aa
$RTo configure a WAAS Express class map, use the  Íclass-map type waas  p
  Bcommand in global configuration  'a@  DUmode. To remove a WAAS Express
class map, use the  pno  B form of this command.
<  "a"  d-class-map type waas  B  Íclass-map-name
Q<  ¹UR  dno class-map type waas  B  Íclass-map-name
€}Ä  Å¹/  ‡p  æ
‡  ŠN  Å¹/  ‡p>?p‡?p  €Y  Q  Ša  †aa%j  a
l2tp-class R
•j©  @  l2tp-class-name

```

²f f Ā i ŷ ü À R Ī Ĭ ī ē e † ‡ † ... u † ‡ f f Ā i ŷ ü À R Ī Ĭ ī ī Š D Š D W < † a a Š T M Ä @ l Å ð

\$ÂeZ|Â

^{TMTM}Àj¥„□□□i³□□^□‡9□□□\$ÂeZ|Â

^{TMTM}Àj¥„À`ÿù□□□□□□2□□‡

‡□^□□c□□□‡

‡□‡□‡□□□€}À□ÿÿÂ:¼Ml□?ÿ□□ôô□□f.f!^□□□À□ÿÿÂ:¼Ml□?ÿ□?ÿ□□f&x□□9□w□y□†^a‰j^a□□□a□12

.2(33)S□□ ß□CF

²f fÄáíÀRİÍïïöy^;†:‡B²f fÄáíÀRİÍïïï= h w†^†^aŠ™Ă d

[illegible]

□ | □□

Ñ□fastethernet□□

□ | □
•j@□□□□(tokenring□| fddi□□ ß□}□□ Ñ□ □□ Î□number B
□□□@

mac-address

€}Á# !ÀàÁÿÿS?ýtþ% ‡D‡FÁ# !ÀàÁÿÿS?ýS?ý< €/€Rty†ªja
>Local CMNS interface (Ethernet, Fast Ethernet, Token Ring, or p•j©;FDDI
interface) and MAC address of the remote device; this @'information
identifies a CMNS service.

€}ÀÿÿÁ" "S?ýu% ‡E‡GÀÿÿÁ" "S?ý?ý< €/€Swtz
†ªja`

vc-number

€}Á# !ÁÁÿÿS?ýu% ‡F‡HÁ# !ÁÁÿÿS?ýS?ý< €/€S†{†ªja
9(Optional) SVC or PVC number, in the range 1 to 4095. If p•j©Especified,
the SVC is cleared or the PVC is reset. If not specified, @ (the X.25 or CMNS
service is restarted.

€}ÀÿÿÁ.ì

À" ">?þu% ‡G‡IÀÿÿÁ.ì

À" ">?þ?ý< €/€Twt|

†ªja`

dlci-number

€}Á# !Á.İ

Á□ÿÿ>?p□□□u□□□% ‡H□□□Á# !Á.İ

Á□ÿÿ>?p>?p□□< €/□€T□□†}□†^a%j^a□□□ <(Optional) When combined with a serial interface number, it P•j©□□□@9triggers a restart event for an Annex G logical X.25 VC.

€}À□ÿÿÁ'M=j□?ÿ□□□u

□□% □‡K□□□À□ÿÿÁ'M=j□?ÿ□?ÿ□□^5€0□€U□W‡□□†^a%j^a□□□`□Release
€}ÀùÿÿÁ'M=ÁD□□□?ÿ□□□u

¶J¶LÀüÿÿÁ'M=ÁD¶¶?ÿ¶?ÿ¶~5€0€U¶W¶¶¶†aa%ja¶¶¶`

Modification

€}ÀüÿÿÁ ¶<j¶?ÿ¶¶¶u¶¶¶% ¶K¶M¶¶¶ÀüÿÿÁ ¶<j¶?ÿ¶?ÿ¶~5€0€V¶W¶¶¶†aa%ja¶¶¶`¶11.2

€}ÀüÿÿÁ ¶<ÁD¶¶¶?ÿ¶¶¶u¶¶¶%

¶L¶N¶¶¶ÀüÿÿÁ ¶<ÁD¶¶¶?ÿ¶?ÿ¶~5€0€V¶W¶¶¶†aa%ja¶¶¶`-This command was introduced.

€}ÀüÿÿÁ-Í;j¶?ÿ¶¶¶u¶¶¶% ¶M¶0¶¶¶ÀüÿÿÁ-Í;j¶?ÿ¶?ÿ¶~5€0€W¶W¶¶¶†aa%ja¶¶¶` 12.0(3)T

€}ÀüÿÿÁ-Í;ÁD¶¶¶?ÿ¶¶¶u¶¶¶% ¶N¶P¶¶¶ÀüÿÿÁ-Í;ÁD¶¶¶?ÿ¶?ÿ¶~5€0€W¶W¶¶¶†aa%ja¶¶¶`-Annex G restart or clear options were added.

€}ÀüÿÿÁ¿

:j¶?ÿ¶¶¶u¶¶¶% ¶0¶Q¶¶¶ÀüÿÿÁ¿

:j¶?ÿ¶?ÿ¶~5€0€X¶W¶¶¶†aa%ja¶¶¶`

12.2(33)SRA

€}ÀùÿÿÁ¿

:ÁÐ???ÿ????u???% ‡P‡R???ÀùÿÿÁ¿

:ÁÐ???ÿ??ÿ??^5€0€XW‡???†^{a%}j^a???`@This command was integrated into Cisco IOS Release 12.2(33)SRA.

€}ÀùÿÿÁÎM9j\$?ÿ????u???% ‡Q‡S???ÀùÿÿÁÎM9j\$?ÿ??ÿ??^5€0€YW‡ ‡†^{a%}j^a???`12.2SX

€}ÀùÿÿÁÎM9AD??\$?ÿ????u-??% ‡R???ÀùÿÿÁÎM9AD??\$?ÿ\$?ÿ??^5€0€Y??‡

‡†^{a%}j^a??? IThis command is supported in the Cisco IOS Release 12.2SX train.

Support p•j©?????Hin a specific 12.2SX release of this train depends on your feature set, ???@!platform, and platform hardware.

€}À^{TMTM}Àé/

Àffg??ÿ????u3??%6‡U???À^{TMTM}Àé/

Àffg??ÿ??ÿ??<&€1€ZW‡9†^{a%}j^a???`Command

€}Á???Àé/

Á)???ÿ????u5??%6‡T‡V???Á???Àé/

Á)???ÿ??ÿ??<&€1€ZW‡-9†^{a%}j^a???`

Description

```

€}ÀTMÀøø  Àffg?ÿTMu7TM%6†U†WTMÀøø  Àffg?ÿ?ÿTM&€1€[□W†
:†aa%jaTM□□□□`
clear xot
€}ÁTMÀøø  ÁTM□□□?ÿTMu9TM%6†V†XTMÁTMÀøø  ÁTM□□□?ÿ?ÿTM&€1€[□W†
□†aa%jaTM□□□□(Clears an XOT SVC or resets an XOT PVC.
€}ÀTMÁTM□Àffg>?pTM□□□□u;□□□%6†W†YTMÀTMÁTM□Àffg>?p?ÿTM□□□<&€1€\□W†!:†aa%jaTM□□□□□fram
e-relay interface-dlci
€}ÁTMÁTM□ÁTM□□□>?pTM□□□u=□□□%6†X†ZTMÁTM□□□ÁTM□ÁTM□□□>?p>?pTM□□□<&€1€\□□†"□†aa%jaTM□□□□
EAssigns a DLCI to a specified Frame Relay subinterface on the router
P.jTM□□□□@□□□or access server.
€}ÀTMÁTM□ÁTM□i□Àffg?ÿTM□□□□u?□□□%6†Y†[□□□ÀTMÁTM□i□Àffg?ÿ?ÿTM□□□<&€1€[□W†#:†aa%jaTM□□□□□show
x25 context
€}ÁTMÁTM□ÁTM□i□ÁTM□□□?ÿTM□□□□u□□□%6†Z†\□□□ÁTM□□□ÁTM□i□ÁTM□□□?ÿ?ÿTM□□□<&€1€[□W†$□†aa%jaTM□□□□□*Disp
lays details of an Annex G DLCI link.
€}ÀTMÁTM□ÁTM2/□Àffg?ÿTM□□□□u□□□%6†[†]□□□ÀTMÁTM2/□Àffg?ÿ?ÿTM□□□<&€1€^□W†%:†aa%jaTM□□□□□show
x25 services
€}ÁTMÁTM□ÁTM2/□ÁTM□□□?ÿTM□□□□u□□□%6†\†^□□□ÁTM□□□ÁTM2/□ÁTM□□□?ÿ?ÿTM□□□<&€1€^□W†&□†aa%jaTM□□□□□*Disp
lays information about X.25 services.
€}ÀTMÁTM□ÁTM□Àffg?ÿTM□□□□u□□□%6†[†]†□□□ÀTMÁTM□ÁTM□Àffg?ÿ?ÿTM□□□<&€1€_□W†':†aa%jaTM□□□□□`

```

show x25 vc

€}ÁÁÁÁÁ)??uI%6‡^ÁÁÁÁÁ)???<&€1€_W‡(†^a%j^a`9Displ
ays information about active X.25 virtual circuits.

AduTb/b/

$2ffA$

ٻ/ÀRÌÍïïïïö{ïï^;‡B‡dïïï²ffÁ

[illegible] $\square^2 f f Q \hat{A}$

TMTM Â□□□□□ uW□□ ‡ ` □□□□ ² ffQÂ

$$\hat{A}_{\text{TMTM}}(\hat{A}_{\text{TM}} \pm \hat{p}) \pm \hat{p}$$

†u □ □□□□ŠÌÌÀRÌÍ□□□

À^{TMTM}pÁ°□□.ÿü□□□ö€□□^<^□□‡h□□□À^{TMTM}pÁ°□□.ÿü.ÿü□□□□□□□□□□^?□s□□□□□□<\$□†aa†aa□□□\$pT
o clear information about WAAS Express closed connections, statistics, or
tokens, use the □□ Í□clear waas□□ ß□ □'a@□□□D!command in privileged EXEC
mode.

□<% "a"□□□\$€2clear waas□□ ß□ {□□ Ñ□closed-connections□□ ß□ | □□
Ñ□connection□□ ß□ □□ Í□conn-id□□ Ñ□ □□ ß□[□□ Ñ□forced□□ ß□] | □□
Ñ□token□□ ß□ | □□ Ñ□statistics□□ ß□ [□□ Ñ□auto-discovery□□
ß□ R□'a\$□□□D€□[□□ Ñ□blacklist□□ ß□] | □□ Ñ□aoim□□ ß□ | □□
Ñ□class□□ ß□ | □□ Ñ□dre□□ ß□ | □□ Ñ□global□□ ß□ | □□
Ñ□lz□□ ß□ | □□ Ñ□pass-through□□ ß□ | □□ Ñ□peer□□ ß□]}

²ffÁ

HÂ
TMTMÀTÿúó"^^;†a†i²ffÁ

HÂ
TMTMÀTÿúÀTÿú3††/^=k††*†,†.††

²f fÁ@M>ÀRİÍïï□□□□îî□□‡`‡;‡f□□²f fÁ@M>ÀRİÍïïï□□□□□□□□□□‡b□B□□□□wŠu□†^aaš™Ä□□
□d□

[illegible]

[illegible]

\$ÄÿüÀRİİîïö~<†c‡k\$ÄÿüÀRİİîïï?t
ŠLšm< <
<

<□<□<-< <"<=<I<K
ŠLŠm<□<
<

<□<□<-< <"<=<I<KW<@†^aŠ[™]Ä□□@l□□□Àù□

²ffÁ~

BÀRÌÍiíó#;‡d^+²ffÁ~

BÀRÌÍiíi^=lW†i†ªªŠ™Äd

À°«ÿÿê†'†w†lÀ°«ÿÿ«ÿÿ)....k†aa†aa\$ _T
o clear dynamically created Frame Relay maps, which are created by the use of
Inverse Address 'a@LrResolution Protocol (ARP), use the Ëclear frame-
relay-inarp ß command in privileged EXEC mode. ÀŽ ì
S...l "a"ddclear frame-relay-inarp

\$ÀÂ/□Â
TMTMÀp?ñ□□□ö,□□^<‡h‡o□□□\$ÀÂ/□Â
TMTMÀp?ñÀp?ñ□□□
□□□U□□ŠL<L^?□u□□
ŠLŠm<□<
<

<□<□<-< <"<=<I<K□□□

[illegible]

```

A|0A°f±öwtn±Ä°A|0A°A"f±ÄiR!|t^aa$
TMÄdThe following example clears the session counters for all sessions:
t"(...UT$Dm"d"Router# 
clear l2tun counters
t#Dk"d
t$|^aa^TM;D$The following example clears the session counters for only those
sessions associated with the peer at IP »TM3/4Daddress 10.1.1.1:
Wt%(...UTAKDg;d;Router# 
clear l2tun counters session ip-addr 10.1.1.1

```

AdÃueþþpþ0

\$Á¿oÀRìíïöf<†k‡q\$Á¿oÀRìíïï?vW<A†aaŠ™Äd
\$QÂ
_{TMTM} Âuh‡n\$QÂ
_{TMTM} Â‡b^‡‡m ŠìîÀRìí

ÀTMÁ¿oÁ°iö,,^<‡o^
ÀTMÁ¿oÁ°iöi^?wW<B†^{aa}ŠÄdLInformation about
closed connections, statistics, or tokens is not cleared.

2 ffQÀRÌÍ□ï□□□□öŽ□□^x□□

```
00000000000000000000000000000000^z,00000<Q<S<U<W<Y<[<>_<a<c<e<g<i<k<m<o<q<s0000<Q<S<U<W<Y<[<>_<a<c<e<g<i<k<m<o<q<sW<t†aaš™Ä00@l000Äû00  
€)Ä0ÿÿÄ¹/Ä†000?ÿ000uv00%Ç†t000Ä0ÿÿÄ¹/Ä†000?ÿ00ÿÿ00<0€40€`W‡/T†aa%ja000`"remot  
e00    Î0 ip-address port00
```

□

€}ÁÿÿÀ¹/Á&ÆÎ?ÿux%C‡s‡uÁÿÿÀ¹/Á&ÆÎ?ÿ?ÿ<€4€`W‡0†ªªjª` ;Remo
te IP address and port number of an XOT connection ID.

€}ÀÿÿÀÈoÀ‡?ÿuz%C‡t‡vÀÿÿÀÈoÀ‡?ÿ?ÿ<€4€aW‡1T†ªªjª`
local□

□ □ □ Īip-address port

€}ÁöÿÿÀÈoÁ&ÆÎ?ÿ□□□□|□□%C‡u□□□□ÁöÿÿÀÈoÁ&ÆÎ?ÿ□?ÿ□□<□€4□€a□W‡2□†^{aa%}j^{a□□□}`:Local
IP address and port number of an XOT connection ID.

€}ÀöÿÿÁ-ÍFj□?ÿ□□□□,□□%C‡x□□□□ÀöÿÿÁ-ÍFj□?ÿ□?ÿ□□†}€5□€b□W‡6□†^{aa%}j^{a□□□}`□Release

€}ÀùÿÿÁ-ÍFÁD□□□?ÿ□□□□,,□□%C‡w‡y□□□□ÀùÿÿÁ-ÍFÁD□□□?ÿ□?ÿ□□†}€5□€b□W‡7□†^{aa%}j^{a□□□}`
Modification

€}ÀöÿÿÁ.

Ej□?ÿ□□□□†□□%C‡x‡z□□□□ÀöÿÿÁ.

Ej□?ÿ□?ÿ□□†}€5□€c□W‡8□†^{aa%}j^{a□□□}`□11.2

€}ÀùÿÿÁ.

EÁD□□□?ÿ□□□□^□□%C‡y‡{□□□□ÀùÿÿÁ.

EÁD□□□?ÿ□?ÿ□□†}€5□€c□W‡9□†^{aa%}j^{a□□□}`□This command was introduced.

€}ÀöÿÿÁ=MDj□?ÿ□□□□Š□□%C‡z‡|□□□□ÀöÿÿÁ=MDj□?ÿ□?ÿ□□†}€5□€d□W‡:□†^{aa%}j^{a□□□}`

12.2(33)SRA

€}ÀüÿÿÁ=MDÁD□□□?ÿ□□□u€□□%C‡{‡}□□□ÀüÿÿÁ=MDÁD□□□?ÿ□?ÿ□□†}€5□€d□W‡;□†^{aa}%j^a□□□`@This command was integrated into Cisco IOS Release 12.2(33)SRA.

€}ÀüÿÿÁL□CjS?ÿ□□□uŽ□□%C‡|‡~□□□ÀüÿÿÁL□CjS?ÿ□?ÿ□□†}€5□€e□W‡<□†^{aa}%j^a□□□`□12.2SX

€}ÀüÿÿÁL□CÁD□□S?ÿ□□□u□□□%C‡}□□□ÀüÿÿÁL□CÁD□□S?ÿS?ÿ□□†}€5□€e□□†=□†^{aa}%j^a□□□ IThis command is supported in the Cisco IOS Release 12.2SX train. Support p•j©□□□□Hin a specific 12.2SX release of this train depends on your feature set, □□□@!platform, and platform hardware.

€}ÀüÿÿÁ@Úfj□?ÿ□□□uš□□%C□^□□□□ÀüÿÿÁ@Úfj□?ÿ□?ÿ□□ŠA€6□€f□W‡E9†^{aa}%j^a□□□`□Command

€}ÀüÿÿÁ@ÚfÁD□□□?ÿ□□□uæ□□%C‡□^□□□□ÀüÿÿÁ@ÚfÁD□□□?ÿ□?ÿ□□ŠA€6□€f□W‡F9†^{aa}%j^a□□□`

Description

€}ÀÿÿÂ, j?ÿÿÿÿžÿÿ%C^~^ÿÿÿÿÀÿÿÂ, j?ÿ?ÿÿÿÿŠA€6€gW‡G:†ª%jª`show x25 services

€}ÀÿÿÂ, ÁDÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÀÿÿÂ, ÁDÿÿÿÿÿ?ÿÿÿÿŠA€6€gW‡H†ª%jª`6Displays information pertaining to the X.25 services.

AdÃu«^1

AdÃu¿^2ffQÂ
TM™Âu@^2ffQÂ
TM™Â‡p^†v‡ ŠììÀRìí

\$QÂ

TMTM□□□□ó'□□^<□‡c□□□\$QÂ

TMTM□□□□□□□□□□□□□□^?□r□□□□□W<□□

l c Å lear waas

À^{TMTM}Áf/
Á°iíóR% ^~/À^{TMTM}Áf/
Á°iíi%
,iW††^aŠTMÄdPrivileged EXEC
€}À^{TMTM}Äï/l?ýÉxES^RÀ^{TMTM}Äï/l?ý?ý€^€},W<x
†^a_j^a `maximum-threshold

\$QÂ

TMTM□□□□öæ□□% □^□□□□\$QÂ

TMTM□□□□□□□□□□□□□□%□

,□□□□□□W□□

lÀ-clear x25

\$Áé^ÀRÌÍï□□□□ö...□□^<‡q^

[illegible]

ÀTMÁé^Á°TMïTMö†TM^<^

^-TMÀTMÁé^Á°TMïTMïTM^?yTMW<D†TMaTMŠTMÄTMdTMPrivileged EXEC (#)

²ffQÂ
TM™□□□□ēf□□‡`□^

□□□²ffQÂ

TM™□□□□□□□□□□□□□□#b□:□□□□□W^□□

l2tun

\$QÂ

TMTM□□□□ê▣□□^□□^X□□□\$QÂ

TMTM□□□□□□□□□□□□□□^□□V□□□□□W†4□

l&cÀ!lear l2tun counters tunnel l2tp

ÀÿÿpÁ°«ÿÿê,,‡`^

‡ÀÿÿpÁ°«ÿÿ«ÿÿ‡b;Š_†aa†aafTo clear the specified Layer 2 tunnel, use the Íclear l2tun ß command in privileged EXEC mode.

```
Š` æ©$€+clear l2tun ß { ß Ñl2tp-class
! ß Ìl2tp-class-name ß | ß Ñtunnel id
! ß Ìtunnel-id ß | ß Ñlocal ip
! ß Ìip-address ß | ß Ñremote ip
! ß R
"a" ÌD"ip-address ß ß | ß Ñall ß }
```

²ffQÂ

TM™ÀE¿ûP%Æ²ffQÂ

TM™ÀE¿ûÀE¿ûD%\$%'%If%\$&

```

À°pÁ°·ÿüê††††KÀ°pÁ°·ÿü·ÿü†pH††††aa†aa$LT
o clear session counters for Layer 2 tunnels, use the  Íclear l2tun
counters  ßcommand in privileged  'a@D
EXEC mode.
†  "a"$€#clear l2tun counters  ß[ ß Ñsession  ß { ß Ñip-
addr  ß  ß Íip-address  ß |  ß Ñtunnel  ß { ß Ñid  ß
Ílocal-id  ß [ ß Ílocal-session-id  ß] | R
'a$Dtremote-name  ß Íremote-name local-name  ß} |  Í  ß
Ñusername  ß Íusername  ß |  ß Ñvcid  ß Ívcid  ß
}]

```

ÀÿÿQÁ°Azÿñó]6<%ÀÿÿQÁ°AzÿñAzÿñ
8,

The following example forces an X.25 restart, which implicitly clears all SVCs and resets all PVCs using the interface:

```
clear x25 serial 0
```

```
-UP
```

The following example restarts the specified CMNS service (if active), which implicitly clears all SVCs using the service:

```
clear x25 ethernet 0 0001.0002.0003
```

```
]UJ
```

The following example clears the specified DLCI Annex G connection (40) from the specified interface:

```
clear x25 serial 1 40
```

This command was integrated into Cisco IOS Release 12.2(33)S BCF.

ÀTMÁÍ@Á°ÀÑi{C^0^3ÀTMÁÍ@Á°ÀÑiÀÑi%_E,@†^a
ŠTMÄ\$`Each SVC or PVC supported by the XOT service uses a TCP connection to
communicate X.25 packets. 0-TMÄgA TCP connection is uniquely identified by
the data quartet: remote IP address, remote TCP port, local gIP address, and
local TCP port. This command form is used to forcibly disrupt service on an
individual D
XOT circuit.
†ATMÄ\$FXOT connections are sent to TCP port 1998, so XOT connections
originated by the router will have that PÄTMÄ]remote port number, and
connections received by the router will have that local port number.

```

A[TMTM]pÁ°[TMTM]Àÿü[TMTM]ö[TMTM]%, ^ <[TMTM]À[TMTM]pÁ°[TMTM]ÀÿüÀÿü[TMTM]%,
,[TMTM]t[TMTM]t[TMTM]aa[TMTM]aa[TMTM]$bTo restart an X.25 service or Connection-Mode Network
Service (CMNS), to clear a switched virtual 0'a@[TMTM]pcircuit (SVC), or to reset
a permanent virtual circuit (PVC), use the [TMTM] íclear x25[TMTM] ß command in
privileged [TMTM]D
EXEC mode.
[TMTM]t[TMTM]u[TMTM]'a[TMTM]s[TMTM],€6[TMTM]À@[TMTM] íclear x25 [TMTM]

```

$\{ \hat{\epsilon}_{\text{serial}} \hat{\epsilon}_{\text{number}}$

□ | {□□ Ñ□ethernet□□

□ | □□

Ñ□fastethernet□□

□ | □□

Ñ□tokenring□□

□ | □□

Ñ□fddi□□

} ̂number

□ □ Î □ mac-address □ □

} RJÀ@a!D0[Îvc-number

□] | [□□ î□dlci-number□□

□]

```

$Áf/
ÀRÌÍiööž% < ^ö$Áf/
ÀRÌÍiöööööööööööööööööööö%
,ööööw†ö†aa$™Äööd
$QÂ
TMTMÄööööuÄö^öööö$QÂ
TMTMÄööö^ö^=^
‡? öööööö$ììÀRÌÍöö€}ÀüýÄí/öl?ýööuí
%L^ööööÀüýÄí/öl?ýö?ýö~€9€hW†P
†aa%jaöö`0
€}ÀüýÄí/öÁ@fg?ýööuí
%L^ööööÀüýÄí/öÁ@fg?ýö?ýö~€9€hW†Q†aa%jaöö`9The CLP field in the ATM
cell header is always set to 0.
€}ÀüýÄööl?ýööüN
%L^ööööÀüýÄööl?ýö?ýö~€9€iW†R
†aa%jaöö`1
€}ÀüýÄööÁ@fg?ýööü0
%L^ööööÀüýÄööÁ@fg?ýö?ýö~€9€iW†S†aa%jaöö`9The CLP field in the ATM
cell header is always set to 1.
€}ÀüýÄíöl>?pööüö
%L^ööööÀüýÄíöl>?pö?ýö~€9€jW†T
†aa%jaöö`map-de
€}ÀüýÄíöÁ@fg>?pööüx
%L^ööööÀüýÄíöÁ@fg>?p>?pö~€9€jöö†U†aa%jaöö KThe discard eligible (DE)
field in the Frame Relay header is mapped to the P•jööö@"CLP field in the ATM
cell header.
€}ÀüýÄ...ü[öl?ýööüö%L^ -öööÀüýÄ...ü[öl?ýö?ýöö$)€:€kW†[†aa%jaöö`Release
€}ÀüýÄ...ü[Á@fg?ýööüáö%L^ööööÀüýÄ...ü[Á@fg?ýö?ýöö$)€:€kW†\†aa%jaöö`
Modification
€}ÀüýÄ•<Zöl?ýööüäö%L^ ^öööÀüýÄ•<Zöl?ýö?ýöö$)€:€lW†]†aa%jaöö` 12.1(2)T
€}ÀüýÄ•<ZÁ@fg?ýööüäö%L^ ^!öööÀüýÄ•<ZÁ@fg?ýö?ýöö$)€:€lW†^†aa%jaöö`This
command was introduced.
€}ÀüýÄ|Yöl?ýööüçö%L^ ^"öööÀüýÄ|Yöl?ýö?ýöö$)€:€mW†_†aa%jaöö`

```

12.2(33)SRA

€}ÀÛÿÿÁ|YÁ@fg?ÿÿÿÿué%L^!^#ÿÿÿÀÛÿÿÁ|YÁ@fg?ÿÿ?ÿÿŠ)€:€mW†`†ªªjª`@This command was integrated into Cisco IOS Release 12.2(33)SRA.

€}ÀÿÿÁ¾XLS?ÿÿÿÿü%L^"~\$ÿÿÿÀÿÿÁ¾XLS?ÿÿ?ÿÿŠ)€:€nW†a†ªªjª`12.2SX

€}ÀÛÿÿÁ¾XÁ@fg\$?ÿÿÿÿuí%L^#ÿÿÿÀÛÿÿÁ¾XÁ@fg\$?ÿÿ?ÿÿŠ)€:€n†b†ªªjª` IThis command is supported in the Cisco IOS Release 12.2SX train. Support •j©Hin a specific 12.2SX release of this train depends on your feature set, P–ÿp@!platform, and platform hardware.

€}À™™™ÀR/ll?ÿÿÿÿü

%M^&ÿÿÿÀ™™™ÀR/ll?ÿÿ?ÿÿ<€;€oW†o†ªªjª`Command

€}Àí™™™ÀR/Á@fg?ÿÿÿÿü

%M^%`'ÿÿÿÀí™™™ÀR/Á@fg?ÿÿ?ÿÿ<€;€oW†p†ªªjª`

Description

€}À^{TMTM}Àao□l□?ÿ□□□v□□

%M^&^(□□□À^{TMTM}Àao□l□?ÿ□?ÿ□□<□€;□€p□w†q:†^aa%j^a□□□`□connect (FRF.5)

€}À^{TMTM}Àao□Á@fg□?ÿ□□□v□□

%M^'^(□□□À^{TMTM}Àao□Á@fg□?ÿ□?ÿ□□<□€;□€p□w†r□†^aa%j^a□□□`7Connects a Frame Relay DLCI or VC group to an ATM PVC.

€}À^{TMTM}Àp⁻□l□?ÿ□□□v□□

%M^(^*□□□À^{TMTM}Àp⁻□l□?ÿ□?ÿ□□<□€;□€q□w†s:†^aa%j^a□□□`□de-bit map-clp

€}À^{TMTM}Àp⁻□Á@fg□?ÿ□□□v□□

%M^)(□□□À^{TMTM}Àp⁻□Á@fg□?ÿ□?ÿ□□<□€;□€q□w†t□†^aa%j^a□□□`BSets the Frame Relay DE bit field in the Frame Relay cell header.

ÀÿÿÁ~

BÁ°™iü;‡i^,ÀÿÿÁ~

BÁ°™i™i^=m†j†^{aa}Š™Ä\$Use this command to clear all PPPoE sessions on the device. To clear a specific PPPoE session or set of P-™ÄD1sessions, use the Íclear ppoe ß command.

[illegible]

\$Â | QÂ
TMTMžpö^<^ - ^N\$Â | QÂ
TMTMžpžpV<M<P^? {<M<0

[illegible]

\$ÁÍ@ÀRİíïïööö´%%C†}^%%%%\$ÁÍ@ÀRİíïïïïïïïïïïïïïï%E, %%%W#?†aaŠ™Äd

ÀÿÿpÁ°«ÿÿí;Š\$^2ÀÿÿpÁ°«ÿÿ«ÿÿ^=e†Z†aa†aa\$ft
o clear all PPP over Ethernet (PPPoE) sessions, use the Íclear vpdn tunnel
pppoe command in 'a@D%privileged EXEC configuration mode.
S†["a"dclear vpdn tunnel pppoe

[illegible]

\$ÁÚ¼TÀRÌÍïïó|%%C^9\$ÁÚ¼TÀRÌÍïïïïïïïïïï%E,ïïïïïW†B†ªªŠ™Äd

²ffÁîŠÂ

™™™Àåâví;^8²ffÁîŠÂ

™™™Àåâvžp4‡0‡3^=q‡0‡2

\$Á'M=Â
TMTMÀd?ùöö % ^/^:\$\$\$Á'M=Â
TMTMÀd?ùÀd?ùö6J+S%
, J+L+N+P+R€}ÀTMTMÂ}<Kl?ÿööÓ-
ö„C„^%HöÀTMTMÂ}<Kl?ÿ?ÿö...ö}öBwŠ(†ªªjªö`

12.2(33)SRD


```

AöÿÿÄ³ÜZÁ°öäiööööiÄöö^;^,^8öööÄöÿÿÄ³ÜZÁ°öäiöäiöööööööööööö^=ööööööööföföaaŠ™Ä
ööö?The following example clears all PPPoE sessions on the device:
W†m(...UTŠDmöööd%Router# öö
ööclear vpdn tunnel pppoe

```

[illegible]

ÀTMÁú¼TÁ°TMïTMöμTMC^3^yTMÀTMÁú¼TÁ°TMïTMïTM%E,TM†C†^aŠTMÄTM
\$aThe following command will clear or reset, respectively, the SVC or PVC
using the TCP connection -TMÄTMD

identified:

W#D(...UT|Dl□□□d4clear xot remote 10.1.1.1 1998 local 172.2.2.2 2000

[illegible]

† a a Š Ä d

□□Âd□□Ã□□□□□v □□□□□□□□^=^=3□□□□□□□□

AdÃv+^??4^ffQÂ

TMTMÂv#^;^ffQÂ

TMTMÂ^~?Š\$^4

ŠİİÀRİÍ€}ÀÿÿÀİ/ł?ÿv‡Š8^]ÀÿÿÀİ/ł?ÿ?ÿ€P€E€xW^

†aa%ja`connection-name

\$QÂ

TMTMÂv.^^<\$QÂ

TMTMÂ^=^z^T

ŠİİÀRİÍ€}ÀÿÿÀLü`j?ÿvA%~^AÀÿÿÀLü`j?ÿ?ÿŠ"€@€rW^

†aa%ja`Release

€}ÀÿÿÀLü`ÁD??ÿvC%~^@BÀÿÿÀLü`ÁD??ÿ?ÿŠ"€@€rW^†aa%ja`

Modification

€}ÀÿÿÀ\<_j?ÿvE%~^A^CÀÿÿÀ\<_j?ÿ?ÿŠ"€@€sW^†aa%ja`10.0

€}ÀÿÿÀ\<_ÁD??ÿvG%~^B^DÀÿÿÀ\<_ÁD??ÿ?ÿŠ"€@€sW^†aa%ja`This
command was introduced.

€}ÀÿÿÀk|^j?ÿvI%~^C^EÀÿÿÀk|^j?ÿ?ÿŠ"€@€tW^†aa%ja`

12.2(33)SRA

€}ÀùÿÿÁk|^ÁD□□□?ÿ□□□vK□□%~^D^F□□□ÀùÿÿÁk|^ÁD□□□?ÿ□?ÿ□□Š"€@□□€t□W^□□†^aa%ja□□□`@This command was integrated into Cisco IOS Release 12.2(33)SRA.

€}ÀùÿÿÁz¼]jS?ÿ□□□vM□□%~^E^G□□□ÀùÿÿÁz¼]jS?ÿ□?ÿ□□Š"€@□□€u□W^□□†^aa%ja□□□`□12.2SX

€}ÀùÿÿÁz¼]ÁD□□\$?ÿ□□□vO□□%~^F□□□ÀùÿÿÁz¼]ÁD□□\$?ÿ\$?ÿ□□Š"€@□□€u□□^□□†^aa%ja□□□ IThis command is supported in the Cisco IOS Release 12.2SX train. Support □•j©□□□□Hin a specific 12.2SX release of this train depends on your feature set, P–ÿp□□□@!platform, and platform hardware.

€}ÀùÿÿÁ8 j□?ÿ□□□vY□□%~^I□□□ÀùÿÿÁ8

j□?ÿ□?ÿ□□<'€A□€v□W^□9†^aa%ja□□□`□Command

€}ÀùÿÿÁ8 ÁD□□□?ÿ□□□v[□□%~^H^J□□□ÀùÿÿÁ8

ÁD□□□?ÿ□?ÿ□□<'€A□€v□W^□9†^aa%ja□□□`

Description

€}ÀüÿÿÂGIÿj>?püüv]üü%~^I^KüüüÀüÿÿÂGIÿj>?pü?ÿüü<'€Aü€wüW^ü:†aü%jüaüüü`
x25 route

€}ÀüÿÿÂGIÿÿÁüüü>?püüüv_üüü%~^JüüüüÀüÿÿÂGIÿÿÁüüü>?pü>?püüü<'€Aü€wüüü^üüü†aü%jüaüüü
KCreates an entry in the X.25 routing table (to be consulted for forwarding
P•j@üüüü@Lincoming calls and for placing outgoing PAD or protocol translation
calls).

ÀTMÂ6Á°Àpïöç%

^:~MÀTMÂ6Á°ÀpïÀpï%

/
□□□□†

†^aŠTMÂdiThis command replaces the `clear x25-vc` command, which first appeared in Cisco IOS Release 8.3.

†

>™Ã□□□\$eThis command is used to disrupt service forcibly on an individual circuit or on all circuits using a □\$™Ã□□□D'specific X.25 service or CMNS service.

□‡□,™Ã□□□\$uIf this command is used without the □□ Î□vc-number□□ ß□ value, a restart event is initiated, which implicitly clears □Ã™Ã□□□D-all SVCs and resets all PVCs.

□‡□ÀU™¿□□□\$gThis command allows the option of restarting an Annex G connection per data-link connection identifier pÃa™¼□□□□□i(DLCI) number, clearing all X.25 connections, or clearing a specific X.25 logical circuit number on that □□□D

Annex G link.

□□□□w†□□†^aŠ[™]Ä□□□d□

[illegible]

ÀTMÄNüOÁ°TM¥iTMöŠTM^<^N^STMÀTMÄNüOÁ°TM¥iTM¥iTM^?}TM◁K†aaŠTMÄ
`Use this command to clear any information about WAAS Express on the router.
The TMÍclear waas TM–ÄTMjconnection conn-idTM ßTM command resets
the connection and is provided to kill a particular connection for R–ÿpTMD

some reason.

€}Ài™™™Àİ/□ÁD□□□?ÿ□□□Éz□□€S^□□□□□Ài™™™Àİ/□ÁD□□□?ÿ□?ÿ□□€^€}□,□□W<y□†^aa%j^a□□□`GThe
maximum limit. The range is 1 to 100. The default threshold is 80.

\$ÂëfÀRÍíïïö<^<Q^T\$ÂëfÀRÍíïïï~W<L†aaŠ™Äd

```
A^TMÄëfÁ°¿šöÖ~<^SÄ^TMÄëfÁ°¿š!ï?<M†aaŠ™Ä
dVThe following example shows how to clear WAAS Express closed connections
information:
<N(...UT$Dm dRouter>   enable
Q<O Dk d+Router#   clear waas closed-connections

6ÀÅaJÀ]°~Žž¶...![" ,.,D6ÀÅaJÀ]°~Žž¶6ÀÌl6ÀÌl0Nonsafety Warning
```

\$QÀRÎîï□□□□öí□□%M<□□□\$QÀRÎÍîï□□ï□□□□□□□□□□□□□□□%Q,/□□□□^%'^(^)^%'^(^)W‡u□†^a^aS™Ä
□@l□□□À»□

The following example clears the SVC or resets the PVC specified:

Q# Dk d

[illegible]

[illegible]

ÀÿÿÁR°Á}Pýö!%6<&ÀÿÿÁR°Á}Pýšÿp%8,†*†aa†a
a
Q†+—ª©d

À@\\-
ÀÍ?Àwø€|%%%%€}ÀÿÿÀİ/Á@fg?ÿv%Š8^>^ÀÿÿÀİ/
Á@fg?ÿ?ÿ€€€€xW^†aa%ja`A name for this connection.
€}ÀÿÿÀpoł?ÿv<Š8^]_ÀÿÿÀpoł?ÿ?ÿ€€€€yW^
†aa%ja`
interface
€}ÀÿÿÀpoÁ@fg?ÿvŠ8^`ÀÿÿÀpoÁ@fg?ÿ?ÿ€€€€yW^-†aa%ja`5Inter-
face on which a PVC connection will be defined.
€}ÀÿÿÀİł?p vŠ8^_aÀÿÿÀİł?p?ÿ€€€€zW^
†aa%ja`dlci
€}ÀÿÿÀİÁ@fg>p v'Š8^`bÀÿÿÀİÁ@fg>p>p€€€€zW^†aa%ja`
FData-link connection identifier (DLCI) number of the PVC that will be P•j©@
connected.
€}ÀÿÿÀİł?p v"Š8^a^cÀÿÿÀİł?p?ÿ€€€€{W^!
†aa%ja`

l2transport

€}ÀÛÿÿÁiÁ@fg>?pvv•Š8^bÀÛÿÿÁiÁ@fg>?p>?pPPEE€{^"†aa%ja
GSpecifies that the PVC will not be a locally switched PVC, but will be
P.j@%tunneled over the backbone network.

€}ÀÛÿÿÁ•<Zl?ÿvvŠ8^eÀÛÿÿÁ•<Zl?ÿ?ÿ<|F€|W^(†aa%ja`Release
€}ÀÛÿÿÁ•<ZÁ@fg?ÿvvŸŠ8^d^fÀÛÿÿÁ•<ZÁ@fg?ÿ?ÿ<|F€|W^†aa%ja`
Modification

€}ÀÛÿÿÁ|Yl?ÿv;Š8^e^gÀÛÿÿÁ|Yl?ÿ?ÿ<|F€}W^*†aa%ja` 12.1(2)T
€}ÀÛÿÿÁ|YÁ@fg?ÿvv£Š8^f^hÀÛÿÿÁ|YÁ@fg?ÿ?ÿ<|F€}W^+†aa%ja`This
command was introduced.

€}ÀÛÿÿÁ¾Xl?ÿv¥Š8^g^iÀÛÿÿÁ¾Xl?ÿ?ÿ<|F€~W^,†aa%ja`
12.0(23)S

€}ÀÛÿÿÁ¾XÁ@fg?ÿvv\$Š8^h^jÀÛÿÿÁ¾XÁ@fg?ÿ?ÿ<|F€~W^-†aa%ja`.The
l2transport Bkeyword was added.

€}ÀÛÿÿÁÄüWl?ÿvv©Š8^i^kÀÛÿÿÁÄüWl?ÿ?ÿ<|F€W^†aa%ja`
12.2(14)S

€}ÀÛÿÿÁÄüWÁ@fg?ÿvv«Š8^j^lÀÛÿÿÁÄüWÁ@fg?ÿ?ÿ<|F€W^/†aa%ja`?This
command was integrated into Cisco IOS Release 12.2(14)S.

€}ÀÛÿÿÁØ<Vl?ÿvv-Š8^k^mÀÛÿÿÁØ<Vl?ÿ?ÿ<|F€W^Ø†aa%ja`
12.2(15)T

€}ÀÛÿÿÁØ<VÁ@fg?ÿvv¯Š8^l^nÀÛÿÿÁØ<VÁ@fg?ÿ?ÿ<|F€W^1†aa%ja`?This
command was integrated into Cisco IOS Release 12.2(15)T.

€}ÀÛÿÿÁÁ|Ul?ÿvv±Š8^m^oÀÛÿÿÁÁ|Ul?ÿ?ÿ<|F€W^2†aa%ja`

12.2(33)SRA

€}ÀÛÿÿÁá|UÁ@fg?ÿv³Š8^n^pÀÛÿÿÁá|UÁ@fg?ÿ?ÿ<|€FW^3†ªjª`@This command was integrated into Cisco IOS Release 12.2(33)SRA.

€}ÀÿÿÁđ%TlS?ývµŠ8^o^qÀÿÿÁđ%TlS?ý?ÿ<|€Fw^4†ªjª`12.2SX

€}ÀÛÿÿÁđ%TÁ@fgS?ýv.Š8^pÀÛÿÿÁđ%TÁ@fgS?ýS?ÿ<|€F^5†ªjª` IThis command is supported in the Cisco IOS Release 12.2SX train. Support p•j©Hin a specific 12.2SX release of this train depends on your feature set, @!platform, and platform hardware.

€}ÀÿÿÁ/ÀÆfg?ÿvÁÆ^sÀÿÿÁ/ÀÆfg?ÿ?ÿÆEHw^@†ªjª`Comma nd

€}ÁffÀ/Á%fg?ÿvÇÆ^r^tÁffÀ/Á%fg?ÿ?ÿÆEHw^A†ªjª`

Description

€}ÀÿÿÀ-oÀÆfg?ÿvÉ€^s^uÀÿÿÀ-oÀÆfg?ÿ?ÿ€€HWW^B:†ªja`fram
e-relay switching

€}ÁffÀ-oÁ%fg?ÿvĚ€^t^vÁffÀ-oÁ%fg?ÿ?ÿ€€HWW^C†ªja`3Enab
les PVC switching on a Frame Relay DCE or NNI.

€}ÀÿÿÀ»ÀÆfg?ÿvÍ€^u^wÀÿÿÀ»ÀÆfg?ÿ?ÿ€€HWW^D:†ªja`mpls
l2transport route

€}ÁffÀ»Á%fg?ÿvĚ€^vÁffÀ»Á%fg?ÿ?ÿ€€HWW^E†ªja`<Enabl
es routing of Frame Relay packets over a specified VC.

□□Âd□□Ã□□□□□vÙ□□□□□□□□□^z^z5□□□□□□□□

[illegible]

ÀTMÂaZÁ°Àñö·%CŠAÀTMÂaZÁ°Àñšÿp%E,
J†^{aa}†^{aa}dd
Q‡K^a@dd

2ffÄÿüÀRİİİiöö¼%%L<7~2ffÄÿüÀRİİİiööi%%N,#^ ^ ^ ^ ^ ^
W†V†a a S™Äö@lööÀ¹
€JÀ™™™ÁO|_l?ÿöœÉ,öCS%%öÄ™™™ÁO|_l?ÿö?ÿöL€~,,öW<ö†a a %j a `öRelease

²ffÀİ/□Â

™™™¹¸ü□□□ö½□□%L^|%□□□²ffÀİ/□Â

™™™¹¸ü¹¸ü□□□□□□;□□^□^□%N,\$□□□^□^□^□□□€}Á

€Â;üNÁ3ýŒ?ýöIƒZ^Y%Á

€Â;üNÁ3ý\$?ý\$?ýLf:1†ªja!AThis command was modified. The ability to add up to three backup p•j@Jpseudowires was added. The Ípriority keyword was added to assign A%priority to the backup pseudowires. €}Àí™™™ÁO|_ÁD??É,,œS^}%Àí™™™ÁO|_ÁD??L€~,œW€†ªja` Modification

²ffÁ\$îÀRİÍïïöö¼%%L^~%9²ffÁ\$îÀRİÍïïïïïïïïïïïïïïï%N,%ïïïïW†W†ªªŠ™Äïïdï

□□ÀÍE;Àw...-□□□€}ÿ□

^\AAAAAAAAÀÍE;Àw...-AA€AAAAAAAATIFF, <u><u><u><u><c>i<c>templates<c>b2006c.tif00
01FRAMTIFFWIN3 AAAAAAAA^2ffÀ´AA
TMTMÂÿÿAAA€~AA^\%AAAAAAAA^2ffÀ´AA
TMTMÂÿÿAAA%AA%AA* AAAAŠiìÀRìíAA

ÄÿÿÀ´°Äÿÿ€ÀÿÿÀ´°Äÿÿžp%W66`
 ²ff¼·«Ä
 TMTM €€%%
 ²ff¼·«Ä
 TMTM %
 %
 +l

□□Âd□□Ã□□□□□□vë□□□□□□□□□□%

%

6□□□□□□□□

2ff¾·«Â

TMTM□□□□□□€□□□□□□□□2ff¾·«Â

TMTM□□

□□□□□□□□□□%□□□□□□□□w7!□□□□□h

ÀäÀå

\$QÂ

TMTMÂvî%
TMTMÂ^z%8^

\$QÂ

W ŠìÀRìí

²ffQÂ

TMTM□□□□ó□□□%L□<7□□□²ffQÂ

TMTM□□□□□□□□□□□□%N,!□□□□W‡L□

lÀ·À, clp-bit
Â^"ÃU@;ÝEbM€, %:%D%:Â^"ÃU@;ÝEbM}À™Àó/ l?ýv
ŠB%À™Àó/ l?ý?ý<}€M^L
†ªªjª`connection-name
€}Àí™Àó/Á@fg?ýw
ŠB%

%À^{TMTM}Á/Á@fg?ÿ?ÿ<}€M^{TMTM}W^M†^a_aj^a=Connection name. Enter as a
 string of 15 characters maximum.
 €}À^{TMTM}Á^l3?ü^w
 ŠB%^lÀ^{TMTM}Á^l3?ü?ÿ<}€M^{TMTM}W^N
 †^a_aj^a`^{vc-group} ^Îgroup-name
 €}À^{TMTM}Á^lÁ@fg³?ü^w
 ŠB%^lÀ^{TMTM}Á^lÁ@fg³?ü³?ü<}€M^{TMTM}^0†^a_aj^a JVC group name for a many-to-
 one FRF.5 connection. Enter as a string of 11 •j©Icharacters maximum. (If
 the ^{pvc-group} keyword ^ßis specified, the ^{–ÿp}Iinterworking
 type is always network-interworking and does not need to be P–ÿp@

set as such.)

€}À^{TMTM}Á5[—]

l□?ÿ□□□w□□

ŠB%□%□□□□À^{TMTM}Á5[—]

l□?ÿ□?ÿ□□<}€M□□□□W[^]P

†^aa%_oj^a□□□`

fr-interface

€}À^{TMTM}Á5[—]

Á@fg□?ÿ□□□w □

ŠB%□%□□□□À^{TMTM}Á5[—]

Á@fg□?ÿ□?ÿ□□<}€M□□□□W[^]Q□†^aa%_oj^a□□□`IFrame Relay interface type and number; for example, □□ p□serial1/0□□ □□. ß□.

€}À^{TMTM}ÁDï

l>?p□□□w

□

ŠB%□%□□□□À□™™ÁDï

l>?p□?ÿ□□<}€M□□ □W^R
†aa%ja□□□`□fr-dlci
€}Àí^{TMTM}ÁDî

Á@fg>?p□□□w

□

ŠB%□%□□□□Àı™™ÁDı

Á@fg>?p>?p<>}€M ^S†ªja KFrame Relay data-link connection
identifier (DLCI) in the range from 16 to P•j©@1007.
€}À™Á`/
l?ÿw
ŠB%À™Á`/
l?ÿ?ÿ<>}€M
W^T
†ªja`

atm-interface

€}Àí^{TMTM}Á`/

Á@fg?ÿ⁰⁰⁰⁰w⁰⁰

ŠB⁰⁰₀₀⁰⁰⁰⁰Àí^{TMTM}Á`/

Á@fg?ÿ?ÿ⁰⁰<}€M⁰⁰

□W[^]U□†^aa⁰⁰j^a⁰⁰⁰`>ATM interface type and number; for example, □□ p□atm1/0□□
ß.

€}À⁰^{TMTM}Áoo l>?p⁰⁰⁰⁰w⁰⁰

ŠB⁰⁰₀₀⁰⁰⁰⁰À⁰^{TMTM}Áoo l>?p?ÿ⁰⁰<}€M⁰⁰

□W[^]V

†^aa⁰⁰j^a⁰⁰⁰`□atm-vpi□□ p□/□□ î□vci

€}Àí^{TMTM}Áoo Á@fg>?p⁰⁰⁰⁰w⁰⁰

ŠB⁰⁰₀₀⁰⁰⁰⁰Àí^{TMTM}Áoo Á@fg>?p>?p⁰⁰<}€M⁰⁰

□□[^]W□†^aa⁰⁰j^a⁰⁰⁰ NATM virtual path identifier/virtual channel identifier (VPI/VCI). If a VPI is P•j©□□□@%not specified, the default VPI is 0.

€}À⁰^{TMTM}ÁŠ⁻□l³?ü⁰⁰⁰⁰w⁰⁰

ŠB⁰⁰₀₀⁰⁰⁰⁰À⁰^{TMTM}ÁŠ⁻□l³?ü?ÿ⁰⁰<}€M⁰⁰

W^X
†aa%ja`network-interworking
€}Àí™™ÁŠ Á@fg³?üw
ŠB%Àí™™ÁŠ Á@fg³?ü³?ü<}€M

□□^Y□†^aa%ja□□□ HFRF.5 network interworking connection. This keyword is not valid if the □

- j@□□□□Yvc-group□□ □□ keyword is specified. (If the □□ Ñ□vc-group□□ □□ keyword is specified, the □□-ÿp□□□□Iinterworking type is always network-interworking and does not need to be P-ÿp□□□@

set as such.)

€}ÀüÿÿÂ.üNl?ÿw!ŠB%ÀüÿÿÂ.üNl?ÿ?ÿ€€N

W^_†aa%ja`Release

€}ÀüÿÿÂ.üNÁ@fg?ÿw#ŠB%-ÀüÿÿÂ.üNÁ@fg?ÿ?ÿ€€N

W^_†aa%ja`

Modification

€}ÀüÿÿÂ>Ml?ÿw%ŠB%ÀüÿÿÂ>Ml?ÿ?ÿ€€N

W^a†aa%ja` 12.1(2)T
€}ÀüÿÿÂ><MÁ@fg?ÿw'ŠB%- % ÀüÿÿÂ><MÁ@fg?ÿ?ÿ€€N

W^b^a%ja`This command was introduced.
€}ÀÿÿÂM|LLS?ýw)ŠB%%!ÀÿÿÂM|LLS?ý?ý€€N^c^a%ja`
12.2(8)YN
€}ÀÿÿÂM|LÁ@fgS?ýw+ŠB% %"ÀÿÿÂM|LÁ@fgS?ýS?ý€€N^d^a%ja`
CEnhanced QoS features were added for Cisco1720, Cisco 1750, Cisco
p•j@D1751, Cisco1760, Cisco2610XM-2651XM, Cisco3640, Cisco3640A, and
@@

Cisco 3660.

€}ÀüÿÿÂt¼Il³?üw-ŠB%!%#ÀüÿÿÂt¼Il³?üÿÿ€€NWW^e†ªªjª` 12.3(2)T
€}ÀüÿÿÂt¼IÁ@fg³?üw/ŠB%"ÀüÿÿÂt¼IÁ@fg³?ü³?üÿÿ€€N^f†ªªjª DThis
feature was integrated into Cisco IOS Release 12.3(2)T for the
p•j©Efollowing platforms: Cisco 1720, Cisco 1721, Cisco 1750, Cisco 1751,
>Cisco 1760, Cisco 2610-2651, Cisco 2610XM-2651XM, Cisco 2691,
@5Cisco 3620, Cisco 3640, Cisco 3640A, and Cisco 3660.
€}À™™™À`?ÿl?ÿw1%>%%À™™™À`?ÿl?ÿ?ÿ^€NWW^g†ªªjª`

12.2(33)SRA

€}Àí^{TMTM}À`?ÿÁ@fg□?ÿ□□w3□□%□%\$%&□□□Àí<sup>TMTM</sup>À`?ÿÁ@fg□?ÿ□?ÿ□□^□€N□□□□W^h□†aa%ja□□□`@This command was integrated into Cisco IOS Release 12.2(33)SRA.

€}À^{TMTM}À□□pls?ÿ□□□w5□□%□%□%'□□□À^{TMTM}À□□pls?ÿ□?ÿ□□^□€N□□□□W^i□†aa%ja□□□`□12.2SX

€}Àí^{TMTM}À□□pÁ@fg\$?ÿ□□□w7□□%□%&□□□Àí^{TMTM}À□□pÁ@fg\$?ÿ\$?ÿ□□^□€N□□□□^j□†aa%ja□□□ IThis command is supported in the Cisco IOS Release 12.2SX train. Support p•j©□□□□Hin a specific 12.2SX release of this train depends on your feature set, □□□@!platform, and platform hardware.

€}À^{TMTM}À}Í l□?ÿ□□□w]□

%□□%□)□□□À^{TMTM}À}Í l□?ÿ□?ÿ□□□(€0□□□□W%□

␣†ªªjª␣␣␣`␣Command
€}Àí^{TMTM}Â}Í Á@fg␣?ÿ␣␣w_␣
%␣%␣(%*␣␣␣Àí^{TMTM}Â}Í Á@fg␣?ÿ␣?ÿ␣␣(€0␣␣␣w%␣␣†ªªjª␣␣␣`

Description

€}À^{TMTM}Â

l?ÿwa%%)%+À^{TMTM}Â

l?ÿ?ÿ(€0W%:†^aa%j^aclp-bit

€}À^{TMTM}Â

À@fg?ÿwc%*%, À^{TMTM}Â

À@fg?ÿ?ÿ(€0W%†^aa%j^a/Sets the ATM CLP field in the ATM cell header.

€}À^{TMTM}ÂæMl>?pwe%+%-%-À^{TMTM}ÂæMl>?p?ÿ(€0W%:†^aa%j^ade-bit

€}À^{TMTM}ÂæMÀ@fg>?pwg%%, À^{TMTM}ÂæMÀ@fg>?p>?p(€0%†^aa%j^a KSets the Frame Relay DE bit field in the Frame Relay cell header for FRF.5 P•j©@@ and FRF.8 service interworking.

€}ÀÿÿÀ`?ÿl>?pwi

EF%/ÀÿÿÀ`?ÿl>?p?ÿÆ€0W%:†^aa%j^aencapsulation aal5

€}ÀÿÿÀ`?ÿÀ@fg>?pwk

EF%.%0ÀÿÿÀ`?ÿÀ@fg>?p>?pÆ€0%†^aa%j^a BConfigures the AAL and encapsulation type for an ATM PVC, SVC, VC P•j©@@class, or VC bundle.

€}ÀÿÿÀ{ÿl>?pwmEF%/1ÀÿÿÀ{ÿl>?p>?pÆ€0%:†^aa%j^a

```

frame-relay P•j@interface-dlci switched
€}ÀÛÿÿÀ{ÿÁ@fg>?pwoEF%0%2ÀÛÿÿÀ{ÿÁ@fg>?p?ÿEW€0W%:†aa%ja`/Indi
cates that a Frame Relay DLCI is switched.
€}ÀÛÿÿÀ-¿ûl>?pwwq
EF%1%3ÀÛÿÿÀ-¿ûl>?p?ÿEW€0W%:†aa%ja`pvc
€}ÀÛÿÿÀ-¿ûÁ@fg>?pws
EF%2%4ÀÛÿÿÀ-¿ûÁ@fg>?p?pEW€0%†aa%ja JCreates or assigns a name to
an ATM PVC, specifies the encapsulation type P•j@>on an ATM PVC, or enters
interface-AMT-VC configuration mode.
€}ÀÛÿÿÀ±ÿûl?ÿwwu
EF%3%5ÀÛÿÿÀ±ÿûl?ÿ?ÿEW€0W%:†aa%ja`      vc-group
€}ÀÛÿÿÀ±ÿûÁ@fg?ÿww
EF%4ÀÛÿÿÀ±ÿûÁ@fg?ÿ?ÿEW€0W%†aa%ja`2Assigns multiple Frame Relay
DLCIs to a VC group.

```


AdÃw%8%87€}Á

€Âc<KÁ3ý?ÿMfZ%Á

€Âc<KÁ3ý?ÿ?ÿfLf;W,3†ªjªaJThis command was integrated into Cisco
IOS Release 12.2(33)S ßCF. ß
²ffQÂ
TMTMÂw,,%6²ffQÂ
TMTMÂ%
%E^^[ŠÌÀRÌÍ

[illegible]

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<ÕT%ÿÿ%;;W,\$†aa†aaLÀæWAN-3Àç
²ffÂñ``ÄÄ
¹€†
%;%>%D%;%>²ffÂñ``ÄÄ
¹Ä>xÂñ``Ä²ffÂñ``Ä²ffÂñÀ´j^~€‡
 %=%?%D%=%?²ffÂñÀ´j^~%÷bÂé33ÁÀÌŠ%i€^

%>%A%D%>%A %÷bÂé33ÁÂÏŠ%i %%%@%@- %l %

%÷bÂé33ÁÂÌŠ%ï€%
%÷bÂé33ÁÂÌŠ%ï‡ÿp%?W,
"...UT...UTh;ÀCisco IOS Wide-Area Networking Command ReferenceÀé
»q9Âô, QÁk‡ï€Š

%?%D%D%?»q9Âô, QÁk†%ï%B%B. l

»q9Âô, QÁk†%i€<
»q9Âô, QÁk†%i‡ÿp%A W, : "...UT...UThÀêMarch 2011Àë

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TMTMÂ□□□□□□w'□□□□%C□□□□□□\$QÂ

TMTMÂ□□□□□□%8%N<3^{

□□□□□□□□□□ŠİİÀRİİ□□□□€}Àİ^{TMTM}Â^¼^ÂD□□□□?ÿ□□□□É^□□□□€S%□□□□□□Àİ^{TMTM}Â^¼^ÂD□□□□?ÿ□□?ÿ□□□□L€~□

,□□w€□□□†a a%j a□□□□`□This command was introduced.

€}À□^{TMTM}Â)□ôl□?ÿ□□□□ö v□

f_□%J□□□□À□^{TMTM}Â)□ôl□?ÿ□□?ÿ□□„6g□□<□wŽ□□†a a%j a□□□□`□Command

€}Àİ^{TMTM}Â}<KÁ@ff□?ÿ□□□□Ó^{TMTM}□□„C^6%□x□□□□Àİ^{TMTM}Â}<KÁ@ff□?ÿ□□?ÿ□□□□...□}□□B□wŠ)□†a a%j a□□□□`JThis command was modified. The □□ Ñ□split-horizon□□ ß□ keyword was added.

□²ffQÂ

TMTMÂ□□□□□□□□□□Î□□□□□%□□□□□□□²ffQÂ

TMTMÂ□□□□□□€#€H^□□(□□□□□□□□□□ŠİİÀRİİ□□□□€}Àİ^{TMTM}Â)□ôÁD□□□□?ÿ□□□□ö x□

f_□%G□□□□□□Àİ^{TMTM}Â)□ôÁD□□□□?ÿ□□?ÿ□□„6g□□<□wŽ□□†a a%j a□□□□`

Description

À^{TMTM}ÀïÁ°ÂNêó%M<À^{TMTM}ÀïÁ°ÂNê%ÿÿ%Q,1W†v†a†a
a□□d□

AdÃw>N%N9

□□Âd□□Ã□□□□□w£□□□□□□□□□□%Q%Q:□□□□□□□□□²ffQÂ
TMTMÂ□□□□□□wž□□%L□□□□□²ffQÂ
TMTMÂ□□□□%E%Q%

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      £l□?ÿ□?ÿ□□□T€□□,□□W€
□†a□a□j□□□□`□Command
€}ÀíTMTMÂD/
Á@ff□?ÿ□□□Óí□□€ ,fw%p□□□ÀíTMTMÂD/
Á@ff□?ÿ□?ÿ□□□Eİ€
□□)□W%□]□†a□a□j□□□□`,A name for this local switching connection.
□$QÂ
TMTMÂ□□□□□w!□□%M□□□□$QÂ
TMTMÂ□□□□%NŠ□~V%K      □□□□□□ŠİİÀRİİ□□□€}À□TMTMÂó/□l□?ÿ□□□w±□
€(□%S□□□À□TMTMÂó/□l□?ÿ□?ÿ□□□+€R□□□□W%□"
†a□a□j□□□□`□connection-name
€}ÀíTMTMÂó/□Á@fg□?ÿ□□□w3□
€(%R%T□□□ÁíTMTMÂó/□Á@fg□?ÿ□?ÿ□□□+€R□□□□W%#□†a□a□j□□□□`ESpecifies a connection name.
Enter as a 15-character maximum string.
€}À□TMTMÂ□□□l>?p□□□wμ□
€(%S%U□□□À□TMTMÂ□□□l>?p□?ÿ□□□+€R□□□□W%$
†a□a□j□□□□`
FR-interface
€}ÀíTMTMÂ□□□Á@fg>?p□□□w.□
€(%T%V□□□ÁíTMTMÂ□□□Á@fg>?p>?p□□□+€R□□□□□%□†a□a□j□□□□ BSpecifies the Frame Relay
interface type and number, for example, R:•j©□□□@□serial1/0□□      ß□.
€}À□TMTMÂ□□□l>?p□□□w1□
€(%U%W□□□À□TMTMÂ□□□l>?p□?ÿ□□□+€R□□□□W%&
†a□a□j□□□□`□FR-DLCI
€}ÀíTMTMÂ□□□Á@fg>?p□□□w»□
€(%V%X□□□ÁíTMTMÂ□□□Á@fg>?p>?p□□□+€R□□□□□%'□†a□a□j□□□□ HSpecifies the Frame Relay
data-link connection identifier (DLCI) in the P•j©□□□@□range 16 to 1007.
€}À□TMTMÂ8İ
l□?ÿ□□□w½□
€(%W%Y□□□À□TMTMÂ8İ
l□?ÿ□?ÿ□□□+€R□□□□W%(
†a□a□j□□□□`

```

ATM-interface

€}À^{TMTM}Á8i

Á@fg□?ÿ□□w¿□

Ɖ(%X%Z□□□À^{TMTM}Á8i

Á@fg□?ÿ□?ÿ□□+€R□□□W%)□†^aa%j^a□□□`K Specifies the ATM interface type and number,
for example □□ þ□atm1/0□□ ß□.

€}À^{TMTM}ÁH/

l > ?p□□□wÁ□
Ɖ(%Y%[□□□À□™™™ÁH/

l>?p□?ÿ□□□+€R□□-□W%*
†aa%j a□□□`

ATM-VPI/VCI
€}Àí™™ÁH/

Á@fg>?p□□□wÃ□
Ɖ(%Z%\\□□□Àı^{TM™}ÁH/

Á@fg>?p>?p□□□+€R□□-□□%+□†ªªja□□□ ES pecifies the ATM virtual path identifier/virtual channel identifier P•j©□□□@<(VPI/VCI). If a VPI is not specified, the default VPI is 0.

€}À□^{TMTM}Áco

l□?ÿ□□□wÃ□

€(%[□]□□□À□^{TMTM}Áco

l□?ÿ□?ÿ□□□+€R□□□W%□,

†ªªja□□□`□service-interworking

€}Áí^{TMTM}Áco

Á@fg□?ÿ□□□wÇ□

€(%\□□□□Áí^{TMTM}Áco

Á@fg□?ÿ□?ÿ□□□+€R□□□W%□-□†ªªja□□□`&Specifies FRF.8 service interworking.

€}À□^{TMTM}Áã¼Tl□?ÿ□□□wİ□□€(□%□□□À□^{TMTM}Áã¼Tl□?ÿ□?ÿ□□€)€S□□ □W%3□†ªªja□□□`□Release

€}Áí^{TMTM}Áã¼TÁ@fg□?ÿ□□□wŃ□□€(%^%□`□□□Áí<sup>TMTM</sup>Áã¼TÁ@fg□?ÿ□?ÿ□□€)€S□□ □W%4□†ªªja□□□`

Modification

€}À□^{TMTM}ÁòüSl□?ÿ□□□wÓ□□€(%_%a□□□À□^{TMTM}ÁòüSl□?ÿ□?ÿ□□€)€S□□!□W%5□†ªªja□□□` 12.1(2)T

€}Áí^{TMTM}ÁòüSÁ@fg□?ÿ□□□wÕ□□€(%`%b□□□Áí<sup>TMTM</sup>ÁòüSÁ@fg□?ÿ□?ÿ□□€)€S□□!□W%6□†ªªja□□□`□This command was introduced.

€}À□^{TMTM}Á<Rl□?ÿ□□□w×□□€(%a%□□□À□^{TMTM}Á<Rl□?ÿ□?ÿ□□€)€S□□"□W%7□†ªªja□□□`

12.2(33)SRA

`€}Äï¹™™™Â<RÁ@fg?ÿ□□□wÜ□□£(%b%ð□□□Äï¹™™™Â<RÁ@fg?ÿ?ÿ□□£)€$□□"□w%8□†aa%jª□□`_@This
command was integrated into Cisco IOS Release 12.2(33)SRA.`

€}À^{TMTM}Â|Ql\$?ý□□wŮ□□€(%c‰e□□À^{TMTM}Â|Ql\$?ý?ÿ□□€)€\$□□#□W‰9†^{a a‰}j^a□□□`□12.2SX

This command is supported in the Cisco IOS Release 12.2SX train. Support in a specific 12.2SX release of this train depends on your feature set, platform, and platform hardware.

€}À□ÿÿÀÇ-\$l□?ÿ□□□wí□

Ex%gÀÿÿÀÇ-\$l?ÿ?ÿ"€T\$W%H†ª%jª`Command

€}ÀûÿÿÀÇ-\$Á@fg□?ÿ□□□wİ□

ÆX%fhÀûÿÿÃÇ-\$Á@fg?ÿ?ÿ"€T\$W%I†ªjª`

```

€}ÄÿÿÄÖ^#l?ÿÿwü
EX%g%lÄÿÿÄÖ^#l?ÿ?ÿ"ET%W%J:†aa%ja`clp-bit
€}ÄÿÿÄÖ^#Ä@fg?ÿÿwö
EX%h%jÄÿÿÄÖ^#Ä@fg?ÿ?ÿ"ET%W%K†aa%ja`/Sets the ATM CLP field in
the ATM cell header.
€}ÄÿÿÄäz"l?ÿÿwö
EX%i%kÄÿÿÄäz"l?ÿ?ÿ"ET%W%L:†aa%ja`de-bit map-clp
€}ÄÿÿÄäz"Ä@fg?ÿÿw÷
EX%j%lÄÿÿÄäz"Ä@fg?ÿ?ÿ"ET%W%M†aa%ja`0Sets the EFCI bit field in
the ATM cell header.
€}ÄÿÿÄöP!l?pÿwü
EX%k%lÄÿÿÄöP!l?p?ÿ"ET%'W%N:†aa%ja`encapsulation aal5
€}ÄÿÿÄöP!Ä@fg>p?pÿwü
EX%l%lÄÿÿÄöP!Ä@fg>p>p"ET%'%O†aa%ja EConfigures the AAL and
encapsulation type for an ATM PVC, SVC, or VC P.j@@class.
€}ÄÿÿÄ-l?pÿwý
EX%l%lÄÿÿÄ-l?p?ÿ"ET%(W%P:†aa%ja`pvc
€}ÄÿÿÄ-Ä@fg>pÿwý
EX%nÄÿÿÄ-Ä@fg>p?p"ET%(Q%†aa%ja ?Creates an ATM PVC on a main
interface or subinterface; enters P.j@%interface-ATM-VC configuration mode.
€}ÄTMTMÄSo

```

€}À□^{TMTM}ÁSo

l>?pÓđŒ,%PqÀ™™ÁSo

l>?p□?ÿ□□€I€
□□*□W%^3†^{aa}%j^a□□□`□type
€}Àí^{TMTM}ÁSo

Á@ff>?pÓò€,‰p‰rÀí™™ÁSo

Á@ff>?p>?p€I€

□□*□□%_□†^{aa}%j^a□□□ NSString that identifies the type of interface used to create a local switching P•j©□□□@5connection; for example, serial or Gigabit Ethernet.

€}À^{TMTM}Án[—]

l>?p□□□Óô□□□€, %q%□□□À^{TMTM}Án[—]

l>?p□?ÿ□□€I€

□□+□W%`3†<sup>aa</sup>%j<sup>a</sup>□□□`□number

€}À^{TMTM}Án[—]

Á@ff>?p□□□Óö□□□€, %r%t□□□À^{TMTM}Án[—]

Á@ff>?p>?p€I€

□□+□□%a□†^{aa}%j^a□□□ NInteger that identifies the number of the interface; for example, 0/0/0.1 for P•j©□□□@-a Gigabit Ethernet interface.

€}À^{TMTM}Á%ï□□l□?ÿ□□□Óø□□□€, %s%u□□□À^{TMTM}Á%ï□□l□?ÿ□?ÿ□□€I€

□□, □W%b3†^{aa}%j^a□□□`

circuit-id

€}À^{TMTM}Á%ï□Á@ff□?ÿ□□□Óú□□□€, %t%v□□□À^{TMTM}Á%ï□Á@ff□?ÿ□?ÿ□□€I€

□□, □W%c□†^{aa}%j^a□□□`9CEM group ID. This option is used for CEM circuits only.

€}À^{TMTM}ÁTM/□l>?p□□□Óü□□□€, %u%y□□□À^{TMTM}ÁTM/□l>?p□?ÿ□□€I€

□□-□W%d

†^{aa}%j^a□□□`□dlci

[illegible]

12.2(33)SRE

€}Àí™™Á™/□Á@ff>?p□□□Óp□□€,%v%}□□□Àí™™Á™/□Á@ff>?p>?p□□€I€

□□-□□%e□†ªªja□□□ F(Optional) The data-link connection identifier (DLCI)
assigned to the P•j©□□□@
interface.

€}Àí™™Á€|JÁ@ff>?p□□□Ó□□□,,C%x%{□□□Àí™™Á€|JÁ@ff>?p>?p□□...□}□□C□□Š+□†ªªja□□□ AThis
command was modified. Support for this command was added in P•j©□□□@&MAC-in-MAC
tunnel configuration mode.

€}À□™™™Á\$¼Hl>?p□□□ÓŸ□□,,C%z%|□□□À□™™™Á\$¼Hl>?p>?p□□...□}□□D□□Š,□†ªªja□□□

Cisco IOSXE P•j©□□□@

Release□3.2S

€}Àí™™™Á\$¼HÁ@ff>?p□□□Ó;□□,,C%{□□□□Àí™™™Á\$¼HÁ@ff>?p□?Ÿ□□...□}□□D□WŠ-□†ªªja□□□`<This
command was integrated into Cisco IOS XE Release 3.2S.

€}À□™™™Á´o□l>?p□□□Ó□□□€,%yŠ□□□□À□™™™Á´o□l>?p□?Ÿ□□€I€

□□.□W%f

†ªªja□□□`□pvc

00Âd00Ã000000x0000000000Š0Š0;00000000€}ÀûÿÿÁ¢°@l0?ÿ000Ó, 00...00Š0000ÀûÿÿÁ¢°@l0?ÿ0
?ÿ00...
~00E0WŠB0†ªªjª000`0Command
0²ffQÂ
TMTMÂ000000x000%~00000²ffQÂ
TMTMÂ0000%QŠ2<B<) 0 00000ŠÌÌÀRÌÍ000€}À0TMTMÁ[®÷l0?ÿ000ôó0
f30Š1000Â0TMTMÁ[®÷l0?ÿ0?ÿ00,,!000,C0WŽ00†ªªjª000`0Command
€}ÀÍ0TMTMÁ´o0Á@ff>?p000Ô000€,%}Š0000ÀÍ0TMTMÁ´o0Á@ff>?p>?p00€I€
00.00%g0†ªªjª000 J(Optional) The permanent virtual circuit (PVC) assigned to
the interface, P•j©000@Iexpressed by its vpi/vci (virtual path and virtual
channel identifiers).
€}À0TMTMÁÍ0l0?ÿ000Ô000€Š,Š0Š0000À0TMTMÁÍ0l0?ÿ0?ÿ00€I€
00/0W%h
†ªªjª000`0pvp
€}ÀûÿÿÁ¢°@ÁEWÁ0?ÿ000Ó°00...0%0Š0000ÀûÿÿÁ¢°@ÁEWÁ0?ÿ0?ÿ00...
~00E0WŠC0†ªªjª000`

Description

Description
 €]ÀÿÿÁ±ð?l>?p□□□0¼□□...ŠŠ□□□ÀÿÿÁ±ð?l>?p>?p□□...
 ~□□F□□EW:†^aa_‰j^a□□□

```

bridge-domain R•j©@@(  pconfig  B)
€}Ài™™™Ái~Á@ff?ÿ@@@ô@@@€,ŠŠ@@@Ài™™™Ái~Á@ff?ÿ?ÿ@@€I€
  /W%i†ªªjª`H(Optional) The permanent virtual path (PVP) assigned to the
interface.
€}Ài™™™ÁpïlÀ\?ù@@@ô@@@€,ŠŠ@@@Ài™™™ÁpïlÀ\?ù?ÿ@@€I€
  0W%j
ªªªjª`interworking ip
€}Ài™™™ÁpïlÀ@ffÀ\?ù@@@ô
  €,ŠŠ  Ài™™™ÁpïlÀ@ffÀ\?ùÀ\?ù@@€I€
  000%kªªª L(Optional) Specifies that this local connection enables
different transport 0•j©@@@Vtypes to be switched locally

```


and causes IP packets to be extracted from the attachment circuit and sent over the pseudowire. Attachment circuit frames that do not contain IPv4 packets are dropped.

This keyword is not necessary for configurations that locally switch the same transport type, such as ATM to ATM, or Frame

Relay to Frame Relay.

€}À^{TMTM}Â;.ûlÀt?÷^Ô

€Š, ŠŠ

€}À^{TMTM}Â;.ûlÀt?÷?ÿ€€

1W_m

†^{aa}_j^a ethernet

€}À^{TMTM}Â;.ûÁ@ffÀt?÷^Ô€,Š €}À^{TMTM}Â;.ûÁ@ffÀt?÷Àt?÷€€

1ⁿ†^{aa}_j^a L(Optional) Specifies that this local connection enables different transport types to be switched locally and causes Ethernet frames to be extracted from the attachment circuit and sent over the pseudowire. Ethernet end-to-end transmission is assumed. Attachment circuit frames that do not contain Ethernet frames are dropped. In the case of VLAN, the VLAN tag is @ (removed, leaving a pure Ethernet frame).

oÀVj E This keyword is not necessary for configurations that locally switch the same transport type, such as ATM to ATM, or Frame

Relay to Frame Relay.

€}ÀÿÿÀ!

Kl?ÿ^Ô/Š

ÀÿÿÀ!
Kl?ÿ?ÿœ€

2w%u†^a%j^a Release
€}ÀüÿÿÀ!
KÁ@ff?ÿô/Š
Š
ÀüÿÿÀ!
KÁ@ff?ÿ?ÿ€€

2W%v†a%ja`

Modification

€}ÀÿÿÀµMJl?ÿô/Š

ÀÿÿÀµMJl?ÿ?ÿ€€

3W%w†ªaj`
12.0(27)S
€}ÀûÿÿÀµMJÁ@ff?ÿô- /Š
ŠÀûÿÿÀµMJÁ@ff?ÿ?ÿ€E€

3W%xtaa%ja`2This command was introduced for local switching.
€}ÀyyÄÄIl?yô /š

Š□□□À□ÿÿÄÄ□I l□?ÿ□?ÿ□□Œ€

4w%y†ª%ja`
12.2(25)S
€}ÀûÿÿÄÄIA@ff?ÿ" /ŠŠÀûÿÿÄÄIA@ff?ÿ?ÿED€

4W%z†a%ja`>This command was integrated into Cisco IOS Release 12.2(25)S.
€}ÀÿÿÀÓÍHl?ÿô\$Ÿ/ŠŠÀÿÿÀÓÍHl?ÿ?ÿ€€

5W%{†aa%ja`
12.0(30)S
€}ÀûÿÿÀÓÍHÁ@ff?ÿô&/ŠŠÀûÿÿÀÓÍHÁ@ff?ÿ?ÿED€

5W%|†ªjª`>This command was integrated into Cisco IOS Release 12.0(30)S.
€}ÀÿÿÀã
Gl?ÿÿÿÿÔ(ÿÿÿ/ŠŠÿÿÿÿÀÿÿÿÀã
Gl?ÿÿ?ÿÿÿ€€€

6W%}†ªjª`
12.2(28)SB
€}ÀÛÿÿÀã
GÁ@ff?ÿÔ*/ŠŠÀÛÿÿÀã
GÁ@ff?ÿ?ÿED€

6W%~†ªjª`?This command was integrated into Cisco IOS Release
12.2(28)SB.
€}ÀÿÿÀòMFł?ÿô, /ŠŠÀÿÿÀòMFł?ÿ?ÿ€€

7W%†aa%ja`
12.4(11)T
€}ÀûÿÿÀòMFÁ@ff?ÿô.Š/ŠŠÀûÿÿÀòMFÁ@ff?ÿ?ÿED€


```

7WŠ†aa%ja`>This command was integrated into Cisco IOS Release 12.4(11)T.
€JÀÿÿÁEl?ÿÿÿô0/ŠŠÀÿÿÁEl?ÿ?ÿÿ€€

```

8wŠ†ªj`

12.2(33)SRB

€}ÀüÿÿÁ□□EÁ@ff□?ÿ□□□ô2□□□/Š□Š□□□□ÀüÿÿÁ□□EÁ@ff□?ÿ□?ÿ□□€D€

8wŠ†ªja`@This command was integrated into Cisco IOS
Release12.2(33)SRB.
€}ÀÿÿÁÍDl?ÿô4/ŠŠÀÿÿÁÍDl?ÿ?ÿ€€

□□=□wŠ□□†^aa%j^a□□□`

12.2(33)SXH

€}ÀüÿÿÁÍÁ@ff?ÿô6/ŠŠÀüÿÿÁÍÁ@ff?ÿ?ÿ€DE€

==wŠ†ªja`@This command was integrated into Cisco IOS
Release12.2(33)SXH.
€}ÀÿÿÁ
Cl>?p08/ŠŠÀÿÿÁ
Cl>?p>?pœœ

<Š†ªja
 Cisco IOS XE P•j@

Release 2.5

€}ÀüÿÿÁ

CÁ@ff>?pô:ŠŠQÀüÿÿÁ

CÁ@ff>?pÿED€

```

>wS t a%j a `;This command was integrated into Cisco IOS XE Release 2.5.
}ÀÛÿÿÁ±ð?ÁEWÁ>?p Ó%...ŠŠ-ÀÛÿÿÁ±ð?ÁEWÁ>?p?ÿ...
~FwE t a%j a `;Enables a user to configure components on a bridge domain.
}ÀÛÿÿÁÍØ=l?ÿ ÓÀ...ŠŠÀÛÿÿÁÍØ=l?ÿ?ÿ...
~GwEY: t a%j a `
ethernet evc
}ÀÛÿÿÁÍØ=ÁEWÁ?ÿ ÓÂ...ŠŠ-ÀÛÿÿÁÍØ=ÁEWÁ?ÿ?ÿ...
~GwEZ t a%j a `2Defines an EVC and enters EVC configuration mode.
}ÀÛÿÿÁÜp<l>?p ÓÀ...ŠŠ!ÀÛÿÿÁÜp<l>?p>?p...
~,E[: t a%j a Kethernet service P.j@ instance
}ÀÛÿÿÁÜp<ÁEWÁ>?p ÓÆ...ŠŠÀÛÿÿÁÜp<ÁEWÁ>?p>?p...
~,E] t a%j a KConfigures an Ethernet service instance on an interface and
enters service P.j@ instance configuration mode.

```

²ffÁLü`Â

™™™ÀŸŸúó¹%~<Š, ²ffÁLü`Â

™™™ÀŸŸúÀŸŸú>@^GŠ,; @^B^D^F

ÀÿÿÁÑþ*Á° º™iööÁ%L%wŠ'ÀÿÿÁÑþ*Á° º™iº™i%N,(Z†ªaŠÄ
\$FRF.5 connect configuration P-™ÄDFRF.8 connect configuration

²ffQÂ

TMTM□□□□e´□□^;□^1□□□²ffQÂ

TMTM□□□□□□□□□□□□^=□d□□□□□w†Y□


```
clear vpdn ^a tunnel pppoe
```

AdÃÁBSŠFŠ<€}Àú_ěÁKR ÁBíe?ÿ±™„^PŠ*Àú_ěÁKR
ÁBíe?ÿ?ÿ„QEZHwfP†ª%jª`Interface type.

2ffÁ,,ÍBÀRÌÍïïïïïöÂïï%LŠ#Š)ïïï2ffÁ,,ÍBÀRÌÍïïïïïïïïïïïïïïï%N,)ïïïï^ï^ï!^#^ï^ï-
^!^#W‡cï†aaŠ™Äïï@lïïïÄ°ï

ÀÿÿÀÍÿüÁ°ïïïïïößïï%~<{Š3ïïïÀÿÿÀÍÿüÁ°ïïïïïïïïïïïïïïïïŠ,5ïïïïïW‡|ï†^{aa}Š™Ä
ïïïd+This command has no arguments or keywords.

2 ffÁ...ü [Â

TMTMÀTÿú□□□öÃ□□%LŠ' Š+□□□²ffÁ...ü[Â

TM™ÀTÿúÀTÿú□□□□□□□□<□□^□^\$%N,*□□□^□^!^#□□□€}À□ÿÿÁZ' -

Àj_ì?ÿ±>„Š&Š9ÀÿÿÁZ'Àj_ì?ÿ?ÿ„Q€ZIŸ!

$$t^{aa} j^{a\Box\Box\Box} \Box \text{number}$$

²ffÁöüUÀRÌÍïïïïïöÄïï%LŠ)Š-
ïïï²ffÁöüUÀRÌÍïïïïïïïïïïïïïïï%N,+ïïïïïW‡dï†ªªŠ™Äïïïdï

²ffÁ½ÜZÀRÌÍïïïïïó°ïï%~Š"...zïïï²ffÁ½ÜZÀRÌÍïïïïïïïïïïïïïïïŠï,<ïïïïïW^
ï†ªªŠ™Äïïïïdï

ÄÿÿÄöüUÄ°□□□□i□□□□öÄ□□%LŠ+ŠI□□□ÄÿÿÄöüUÄ°□□□□i□□□□□□□□□□□□%N,,□□□□w†e□†aaŠ™Ä
 □□□□d+This command maps from Frame Relay to ATM.
 €}Äi™™Ä□£ÁD□□□?ÿ□□□É"□□□□ES%0Š0□□□□Äi™™™Ä□£ÁD□□□?ÿ□?ÿ□□□T€□□,□□w€
 □†aa%ja□□□`

Description

Ad - , Š2Š2=€}À™™ÂIϕl?ÿÉ-
ESŠ.Š5À™™ÂIϕl?ÿ?ÿT€,w

†aa%ja`
lz entropy
€}Àí™™Á[®÷ÁD?ÿôõ
f3Š€NÀí™™Á[®÷ÁD?ÿ?ÿ,,! ,CwŽ†aa%ja`

Description

␣\$QÂ
TMTMÂ␣␣␣␣␣␣-...␣␣Š/␣␣␣␣␣\$QÂ
TMTMÂ␣␣␣␣Š␣<
<+<␣ ␣␣␣␣␣␣ŠÌÌÀRÌÍ␣␣

²f fÄ÷ïÀRİÍïïööà%%~Š(Šl²f fÄ÷ïÀRİÍïïïïïïïïïïïŠ,6w†}†^aš™Ä
d

□□Âd□□Ã□□□□□□³

□□□□□□□□□□ <

<

>□□□□□□□□□□€}Àí^{TMTM}Â□IϕÁD□□□□?ÿ□□□É~□□€Š0Š6□□□Àí^{TMTM}Â□IϕÁD□□□□?ÿ□?ÿ□□□T€□□, □□W€

□†^a□^a□j^a□□□`1Enables LZ compression through entropy checking.

€}À□^{TMTM}Â"‰;l>?p□□□ÉŠ□□€Š5Š7□□□À□^{TMTM}Â"‰;l>?p>?p□□□T€□□, □□€

```
:†aa%ja parameter-map type P•j©@waas
€}Äi™™Äi%jÁD>?pÉœESS6$;Äi™™Äi%jÁD>?pÿT€,
WE†aa%ja`&Defines a WAAS Express parameter map.
```

AdÃÈ8ŠŠ@A}Àú_ëÁZ'ÁBíe?ý±„Š*Àú_ëÁZ' -
ÁBíe?ý?ý„QEZIWŠ"†ªjª`Interface number.
€}ÀÿÿÁÚßij?ý±¥„ŠEÀÿÿÁÚßij?ý?ýf]€nJWŠL†ªjª`Release
€}À^{TMTM}Â=ÉŸl?ýÉŽŸŸ<À^{TMTM}Â=ÉŸl?ý?ýT€,
W€ †ªjª`policy-map type waas
€}À^{TMTM}Â=ÉŸAD?ýÉ ŸŸŸ;Š=À^{TMTM}Â=ÉŸAD?ý?ýT€,
W€†ªjª`\$Configures WAAS Express policy map.
€}À^{TMTM}Â žl?ýÉŸŸŸ<Š>À^{TMTM}Â žl?ý?ýT€,
W€ †ªjª`tfo auto-discovery
€}À^{TMTM}Â žAD?ýÉŸŸŸŸŸ=ŠCÀ^{TMTM}Â žAD?ý?ýT€,
W€†ªjª`+Configures autodiscovery for WAAS Express.

²ffQÀRÌÍïïïïïöñïïŠ4<Eïïï²ffQÀRÌÍïïïïïïïïïïïïïïï<
,IïïïïïWïïïï†ªªŠ™Äïïïïdï
ï\$QÂ
™™™™ÄïïïïïïïÈ;ïïŠ8ïïïïï\$QÂ
™™™™Äïïïïï<-Œï<<ŒJïïïïïïïŠÌÌÀRÌÍïïïï

\$Â@ÚfÂ

TMTMžp|üü%C^y^{üü\$Â@ÚfÂ

TMTMžpžp:üü‡^%E,üüü‡^üüüü

□□Â□□□□□□□□□□Ëæ□□□□□□□□□□€#€#?□□□□□□□□□□€}ÀTMÂ\I□l□?ÿ□□□□É|□□□□€Š>ŠH□□□□ÀTMÂ\I□l□?ÿ
 □?ÿ□□□□T€□□,

W taa%ja`
tfo optimize
€}ÀÿÿÀĬ/Àlè ?pÁ\ ŠMÀÿÿÀĬ/Àlè ?p?ÿ...u€u\W<
taa%ja`class-map-name
€}ÀÿÿÁÚİÁD?ÿ±\$„ Š:ŠGÀÿÿÁÚİÁD?ÿ?ÿf]€nJwŠM taa%ja`
Modification
\$QÂ
TMTM Â ÁE Š% \$QÂ
TMTM Â <
<-<<2 ŠİİÀRİÍ€}ÀÿÿÂêh?ÿ±©„ ŠEŠTÀÿÿÂê-
hj?ÿ?ÿf]€nKwŠN taa%ja`10.3
€}Àİ TMTM Â\I ÁD?ÿÉ“ ĞEŠCÀİ TMTM Â\I ÁD?ÿ?ÿT€,

WE†aa%ja`)Configures compression for WAAS Express.

[illegible]

ÀÿÿÂ ënÁ°À'öÇ%LŠIÀÿÿÂ

ënÁ°À'ÀvDb%N,.g+†UTŠ™ÄFRF.5: Example

†h†^{aa™}oKThe following example sets the CLP field in the ATM header to 1 for FRF.5:

†i(...UT©ÁFRouter(config)#

connect network-1 vc-group network-1 ATM3/0 1/35

†j³¿\$Router(config-frf5)#

clp-bit 1

†k+†UTÀK½FRF.8: Example

†l†^{aa}ÀYiKThe following example sets the CLP field in the ATM header to 1 for FRF.8:

†m(...UTÀi™oTC3640(config)#

connect service-1 Serial1/0 16 ATM3/0 1/32 service-interworking

Q†nÀs™, #C3640(config-frf8)#

clp-bit 1

AdÃt<-<-@€}À™™À/Àlèæ?ÿÇ

^<ŠfÀ^{TMTM}Ä/Àlèæ?ÿ?ÿ‡k€yccW<&
†^{aa%}ja`closed-connections
€}Àüè>ÄĬ/ÁC ?pÁ^‡ŠDÀüè>ÄĬ/ÁC ?p ?p...u€u\<†^{aa%}ja`Name
of the class map.
Q<šj©`=The only class-map type supported is Íwaas_global ß.
€}Ä¹^{TMTM}Ä¹/ÁD>?pæ
‡‡=Š_Ä¹^{TMTM}Ä¹/ÁD>?p?ÿ‡€YQWŠb†^{aa%}ja`Ball tunnels with the
specified L2TP class name will be torn down.
€}ÀÿÿÁ`|^l?ÿÁg‡ŠPÀÿÿÁ`|^l?ÿ?ÿ‡Q€v]W<
†^{aa%}ja`Release
€}ÀÿÿÁ`^ÁDæf?ÿÁi‡ŠÖSRÀÿÿÁ`^ÁDæf?ÿ?ÿ‡Q€v]W<

␣†aa%ja␣␣␣`

Modification

€}À␣ÿÿÁ;MAL␣?ÿ␣␣␣ô<␣␣␣/Š␣ŠS␣␣␣À␣ÿÿÁ;MAL␣?ÿ␣?ÿ␣␣ŒĐ€

□,□□wŠ□□†^{aa%}j^a□□□` 15.1(1)S

€}À□ÿÿÁo%]l□?ÿ□□□Ák□□‡□ŠPŠb□□□Á□ÿÿÁo%]l□?ÿ□?ÿ□□†Q€v□□^□W<□□†^{aa%}j^a□□□` 15.1(2)T

€}ÀûÿÿÁ;MAÁ@ff□?ÿ□□□ô>□□□/ŠQ□□□ÁûÿÿÁ;MAÁ@ff□?ÿ□?ÿ□□œ€

□,□□wŠ□□†^{a%}j^a□□□`HThis command was modified. The □□ Î□circuit-id□□ ß□
argument was added.
€}ÀùÿÿÁêhÁD□□□?ÿ□□□±«□□„□ŠGŠU□□□ÀùÿÿÁêhÁD□□□?ÿ□?ÿ□□f]€n□□K□wŠ0□†^{a%}j^a□□□`□This
command was introduced.
€}À□ÿÿÁù_gj□?ÿ□□□±-□□„□ŠTŠV□□□À□ÿÿÁù_gj□?ÿ□?ÿ□□f]€n□□L□wŠP□†^{a%}j^a□□□`□12.2
€}ÀùÿÿÁù_gÁD□□□?ÿ□□□±□□„□ŠU□□□□ÀùÿÿÁù_gÁD□□□?ÿ□?ÿ□□f]€n□□L□wŠQ□†^{a%}j^a□□□`!This
command became unsupported.
€}À□ÿÿÁ[^]₂-j□?ÿ□□□±¶□□„□□ŠX□□□À□ÿÿÁ[^]₂-j□?ÿ□?ÿ□□„"€o□□M□wŠV9†^{a%}j^a□□□`□Command
€}ÀùÿÿÁ[^]₂-ÁD□□□?ÿ□□□±, □□„□ŠwŠY□□□ÀùÿÿÁ[^]₂-ÁD□□□?ÿ□?ÿ□□„"€o□□M□wŠW9†^{a%}j^a□□□`

Description

€}ÀüÿÿÂmý•j¿?ÿ±°„ŠXŠZÀüÿÿÂmý•j¿?ÿ¿ÿ„"€oNwŠX
†ªªjª`encapsulation x25
€}ÀüÿÿÂmý•ÁD¿¿?ÿ±¿„ŠYS[ÀüÿÿÂmý•ÁD¿¿?ÿ¿?ÿ„"€oNwŠY†ªªjª`=Spec
ifies operation of a serial interface as an X.25 device.
€}ÀüÿÿÂ}="j¿?p±Á„ŠZ\ÀüÿÿÂ}="j¿?p¿?ÿ„"€o0wŠZ:†ªªjª`x25 bfe-
decision
€}ÀüÿÿÂ}="ÁD¿¿?p±Æ„Š[Š]ÀüÿÿÂ}="ÁD¿¿?p¿?p„"€o0Š[†ªªjª`
GSpecifies how a router configured for X.25 BFE emergency decision will
P•j@participate in emergency mode.
€}ÀüÿÿÂ~}'j¿?p±È„Š\Š^ÀüÿÿÂ~}'j¿?p¿?ÿ„"€oPwŠ\:†ªªjª`x25 bfe-
emergency
€}ÀüÿÿÂ~}'ÁD¿¿?p±Í„Š]ÀüÿÿÂ~}'ÁD¿¿?p¿?p„"€oPŠ[†ªªjª`
DConfigures the circumstances under which the router participates in
P•j@emergency mode.
€}À^{TMTM}ÀOol¿?ÿ±æ
‡`ŠNŠ`À^{TMTM}ÀOol¿?ÿ¿?ÿ±€YRwŠc †ªªjª`tunnel id Ítunnel-id
€}À^{TMTM}ÀOolÁD¿¿?ÿ±æ-
‡`Š\_ŠaÀ<sup>TMTM</sup>ÀOolÁD¿¿?ÿ¿?ÿ±€YRwŠd†ªªjª`;The tunnel with the
specified tunnel ID will be torn down.
€}À^{TMTM}Àã_l¿?ÿ±æ
‡`Š`ŠnÀ^{TMTM}Àã_l¿?ÿ¿?ÿ±€YSwŠe †ªªjª`local ip Íip-address
€}ÀüÿÿÁo%]ÁDæf¿?ÿ±Ám±ŠRÀüÿÿÁo%]ÁDæf¿?ÿ¿?ÿ±QEv^W<†ªªjª`This
command was introduced.
€}ÀüÿÿÂ Ÿl¿?ÿ±Áy±ŠdÀüÿÿÂ
Ÿl¿?ÿ¿?ÿ±0€w_w<†ªªjª`Command
€}ÀüÿÿÂ ŸÁÇÀ
¿?ÿ±Á{±ŠÇSeÀüÿÿÂ ŸÁÇÀ
¿?ÿ¿?ÿ±0€w_w<†ªªjª`

Description

```
€}ÀÛÿÿÂ, Ižł?ÿ...Á}...‡ŠdŠg...ÀÛÿÿÂ, Ižł?ÿ...?ÿ...†0€w...`W<...†aa%ja...`  
class-map  
€}Âî, 5ÀÀ/AC...c?ÿ...Ç...^<ŠLŠm...Âî, 5ÀÀ/AC...c?ÿ...?ÿ...‡k€y...cW<'†aa%ja...` -  
Clears information about closed connections.  
€}ÀÛÿÿÂ, IžÁÀ  
...?ÿ...Á...‡ŠeŠh...ÀÛÿÿÂ, IžÁÀ  
...?ÿ...?ÿ...†0€w...`W<...†aa%ja...`?Defines a class map for matching packets to a  
specified class.  
€}ÀÛÿÿÂ;%łł?ÿ...Á...‡ŠgŠi...ÀÛÿÿÂ;%łł?ÿ...?ÿ...†0€w...aW<-...†aa%ja...`  
match tcp  
€}ÀÛÿÿÂ;%ÁÀ  
...?ÿ...Áf...‡ŠhŠj...ÀÛÿÿÂ;%ÁÀ  
...?ÿ...?ÿ...†0€w...aW<...†aa%ja...`9Matches traffic based on the IP address or port  
options.  
€}ÀÛÿÿÂJÉæł>?p...Á...‡ŠiŠk...ÀÛÿÿÂJÉæł>?p>?p...†0€w...b...< †aa%ja...  
parameter-map type P•j©...@waas  
€}ÀÛÿÿÂJÉæÁÀ  
>?p...Á‡...‡Šj...ÀÛÿÿÂJÉæÁÀ  
>?p...?ÿ...†0€w...bW<!...†aa%ja...`+Configures WAAS Express global parameters.
```

```

A0ÿÿÄ-+iÁ°□□□□□□□□äá%~š3<□□□□□□□□Šö,70Ä□□W†~□†aaš™Ä
□□□□dEEach nonserial interface must be explicitly configured to use CMNS.
€}Ä°TMTMÄÖ□□Älèæ?ý□□□□Ç□□□^<Šf<□□□□Ä°TMTMÄÖ□□Älèæ?ý?ý□□‡kEy□□□W<(
    †aa%jª□□□□□conn-id□□    B□ □□ İ□conn-id
€}Äi°TMTMAā°AD□□□?ý□□□æ"□
‡·ŠaŠo□□□Äi°TMTMAā°AD□□□?ý?ý□□‡€Y□□S□WŠf□†aa%jª□□□`CALL tunnels with the
specified local IP address will be torn down.
€}Ä°TMTMÄöi□□□?ý□□□æ$□
‡·ŠnŠp□□□Ä°TMTMÄöi□□□?ý?ý□□‡€Y□□T□WŠg    †aa%jª□□□`remote ip □□ İ□ip-address
€}Äi°TMTMÄöi□□AD□□□?ý□□□æ&□
‡·ŠoSq□□□Äi°TMTMÄöi□□AD□□□?ý?ý□□‡€Y□□T□WŠh□†aa%jª□□□`DAll tunnels with the
specified remote IP address will be torn down.
€}Ä°TMTMÄö/□□□?ý□□□æ(□
‡·ŠpŠr□□□Ä°TMTMÄö/□□□?ý?ý□□‡€Y□□U□WŠi    †aa%jª□□□`all
€}Äi°TMTMÄö/□□AD□□□?ý□□□æ*□
‡·Šq□□□Äi°TMTMÄö/□□AD□□□?ý?ý□□‡€Y□□U□WŠj□†aa%jª□□□`All tunnels will be torn down.
€}Äi°TMTMÄX□B□□?ý□□□æ0□□‡·Št□□□Ä°TMTMÄX□B□□?ý?ý□□‡;€q□□V□WŠn□†aa%jª□□□`Release
€}Äi°TMTMÄX□BÁD□□□?ý□□□æ2□□‡·ŠsŠu□□□Äi°TMTMÄX□BÁD□□□?ý?ý□□‡;€q□□V□WŠo□†aa%jª□□□`
Modification
€}Ä°TMTMÄgíAl□□?ý□□□æ4□□‡·ŠtŠv□□□Ä°TMTMÄgíAl□□?ý?ý□□‡;€q□□W□WŠp□†aa%jª□□□`
12.0(30)S
€}Äi°TMTMÄgíAA□□□?ý□□□æ6□□‡·ŠuŠw□□□Äi°TMTMÄgíAA□□□?ý?ý□□‡;€q□□W□WŠq□†aa%jª□□□`This
command was introduced.
€}Ä°TMTMÄw
@l>?p□□□æ8□□‡·ŠvŠx□□□Ä°TMTMÄw
@l>?p>p□□‡;€q□□X□□Šr□†aa%jª□□□
Cisco IOS XE P•j©□□□@

```

Release 2.6

€}Àí™™Áw

@ÁD>?pæ:‡`ŠwÀí™™Áw

@ÁD>?p?ÿ‡;€qXWŠs†ªªjª;This command was integrated into Cisco IOS
XE Release 2.6.

€}À™™Áèknł?ÿæA

‡`ŠzÀ™™Áèknł?ÿ?ÿ†5€rYwŠx†ªªjªaCommand

€}Àí™™ÁèknÁD>?ÿæC

‡`ŠyŠ{Àí™™ÁèknÁD>?ÿ?ÿ†5€rYwŠy†ªªjªa

Description

€}À^{TMTM}Á÷«ml>?p^{æE}

‡`ŠzŠ|^{À^{TMTM}Á÷«ml>?p}?ÿ^{5€r}00Z0WŠz:†^{a%j}a^{000a}show l2tun session

€}À^{1^{TMTM}Á÷«mÁD}00>?p^{æG}

‡`Š{Š}^{À^{1^{TMTM}Á÷«mÁD}00>?p}>?p^{5€r}00Z00Š{^{†^{a%j}a}000!EDisplays the current state of Layer 2 sessions and displays protocol P•j©000A+information about an L2TP control channel.

€}À^{TMTM}Âëklš?ý^{æI}00‡`Š|Š~<sup>À<sup>TMTM</sup>Âëklš?ý</sup>?ÿ<sup>5€r</sup>00[0WŠ|:†<sup>a%j</sup>a<sup>000`</sup>show l2tun tunnel

€}À^{1^{TMTM}ÂëkÁD}00\$?ý^{æK}00‡`Š}^{À^{1^{TMTM}ÂëkÁD}00\$?ý}\$?ý^{5€r}00[00Š}^{†^{a%j}a}000

IDisplays the current state of a Layer 2 tunnels and displays information p•j©00000Dabout currently configured tunnels, including local and remote L2TP 000@?hostnames, aggregate packet counts, and L2TP control channels.

\$\mu\$ĩÃÀRÌÍï□□□óÉ□Š/Æ

< \$ÄuîõÀRĪĪ ĩ ĩ Š2, G W †^{aa} ŠTM Ä e

```

€}A1,5A0o`AC`c?ý`Ç`~<Šm<`A1,5A0o`AC`c?ý?ý`‡k€y`d`W` )†^a%j^a` `;Clea
rs connection information based on the connection ID.

```

²ffÁ!ᵑ.ÀRÌÍïïïïïöâïï%~Šl<ïïïï²ffÁ!ᵑ.ÀRÌÍïïïïïïïïïïïïïïïŠ,8ïïïïïW†ïï†ªŠ™Äïï
ïdï

```

ATMpÁTMÀMyüÀMyüS%<E%ÀTMpÁTMÀMyüÀMyüŠF,U6†aa†aa
$Mto collect Wide Area Application Services (WAAS) metrics, use the
    ĩcollect waas ĩ command in Flexible 0'a©mNetFlow flow record
configuration mode. To disable the collecting of WAAS metrics, use the
    ĩno ĩ form of this command.
07  'asdecollect waas ĩ { ĩ ĩall ĩ ĩ | ĩ ĩconnection
mode ĩ ĩ| { ĩ ĩbytes ĩ ĩ| ĩ ĩdre ĩ ĩ | ĩ ĩlz
    ĩ} { ĩ ĩinput ĩ ĩ | ĩ ĩoutput ĩ}
A8deĩno collect waas ĩ { ĩ ĩall ĩ ĩ | ĩ ĩconnection
    ĩ ĩ| { ĩ ĩbytes ĩ ĩ | ĩ ĩdre ĩ ĩ | ĩ ĩlz
    ĩ} { ĩ ĩinput ĩ ĩ | ĩ ĩoutput ĩ ĩ}

```

ÀTMÂµîõÁ°TMŠTM
óĚŠ/ŠTMÀTMÂµîõÁ°TMŠTM
iTMŠ2,HTMWTM†TMŠTMÄTMe-No ART metrics are collected.
€}ÀTMÄTMÀTMlèTM?ÿTMÇTM^<<TMÀTMÄTMÀTMlèTM?ÿTM?ÿTM‡k€yTMeTMw< *
†TM‰jTMaTMforced

ÀÿŸÁ!Þ.Á°íïöã%~<◻◻◻◻ÀÿŸÁ!Þ.Á°íïï◻◻◻◻◻◻◻◻◻◻Š,9◻◻◻◻W^◻†^aš™Ä
◻◻◻dInterface configuration

\$Q\hat{A}

TMTM □□□□ óì□□ Š%□ < □□□□ \$QÂ

TMTM □□□□□□□□□□□□□□ ŠF, T□□□□□ W□5□

lccÁ collect waas

[illegible]

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TMTMÀxÿ÷□□□éÉ□□%<□^□□□□\$ÀÑ/□Â
TMTMÀxÿ÷Àxÿ÷□□□□□□5□□‡(‡I%
,□□□□‡(‡D‡F‡H□□□€}À□TMTMÀòï□Àlèœ>?p□□□Ç□□□^<□<
□□□À□TMTMÀòï□Àlèœ>?p□?ÿ□□‡k€y□□f□w<,
†a a%oj a□□□`□token
€}Àî,5Àòï□ÁC□c>?p□□□Ç□□□^<<
<

EClears the WAAS Express configuration token used by the WAAS Central P•j©@Manager (WCM).

ÀÿÿÁñkiÁ°Àp"—ööŠ4€ ÀÿÿÁñkiÁ°Àp"—þp<
,S w3(...UT...UTd
²ffQÂ
TMTMÂ³Š4²ffQÂ
TMTMÂŠ2ŠFŠ?<

□ □□□ŠììÀRìí□□€}À□™™Á

/Àlèæ?ÿÇ-^<<
<À^{TMTM}Á

/Àlèæ?ÿ?ÿ‡k€yggW<.
†aa%ja`
statistics

[illegible]

\$À¹/□Â

TMTMž□p□□□1W□□%C<□<□□□□\$À¹/□Â

TMTMž□pž□p□□□□□□8□□†s†v%E,□□□□†s†u□□□

2ffÄÄÿøÂ

TMTM.£÷ŠK<8‡2ffÄÄÿøÂ

TMTM.£.£<-,c\†aaÀø`%yAll the metrics that are configured as part of the `Ícollect` `ß` command are collected and exported `×` `ß` to the `Àø_` collector or IP address mentioned in the flow exporter, even if WAAS is not enabled. If WAAS is not PÀ<sup>a</sup>;`ß`E-enabled, the value of these metrics is zero.

\$ÀÖ-ÀRİíîïïïïïïïïïïïX%%C<◁◁◁◁\$ÁÓ-ÀRİíîïïïïïïïïïïï%E,◻◻◻◻W‡4†ªāŠ™Ǻ◻◻d◻

ÀTMÀ^óÁ°^íY[%]C<<ÀTMÀ^óÁ°^íí[%]E, W†5†^aŠTMÄ
dPrivileged EXEC

[illegible]

/ÁCcc?ÿÇ ^<<

<□□□□Àî,5Á

/ACc?y?y?k€yggW</†aa%ja`%Clears all WAAS Express statistics.
€}À™™™ÁoÀlèæ>?pÇ"^^<<<À™™™ÁoÀlèæ>?p>?p?k€yh<0
†aa%ja auto-discovery ß [ß ÑblackP•j@
list ß
€}Àî,5ÁoACc>?pÇ\$^^<<<Àî,5ÁoACc>?p>?p?k€yh<1†aa%ja
JCclears autodiscovery and autodiscovery blacklist information for the WAAS
P•j@Express device.

\$ÀR/□Â

^{TMTM}-¿ý□□□öÎ□□%M^V%K□□□\$ÀR/□Â

^{TMTM}-¿ý-¿ý□□□□□□□=□□^%^*%Q,0□□□^%^' ^)□□□

²ffÁKÍGÀRÌÍïïïïïäïï%~<Š"ïïï²ffÁKÍGÀRÌÍïïïïïïïïïïïïïïŠ, :ïïïï^@^B^D^F^@^B
^D^FW^ï†aaŠ™Äïï@lïïïÀÀï

²ffÁóërÀRÌÍïïïïïöåïï%~...z<#ïïï²ffÁóërÀRÌÍïïïïïïïïïïïïïïïŠ,>ïïïïïW^

† a a Š Ä d

\$ÀÛ/□Â

^{TMTM}À'ÿö□□□öù□□Š%Æ%<(□□□\$ÀÛ/□Â

^{TMTM}À'ÿöÀ'ÿö□□□□□□□□a□□ÆY□>ŠF,W□□□□ÆY□1□3□5□7□9□;□=□□□□€}À□^{TMTM}Á8[—]

Àlèæ□?ÿ□□□Ç&□□^<□<□□□□À□^{TMTM}Á8[—]

Àlèæ□?ÿ□?ÿ□□‡k€y□□i□W<2

†^aa_‰j^a□□□`□aoim

€}Àî,5Á8[—]

ÁC□c□?ÿ□□□Ç(□□^<□<-□□□Àî,5Á8[—]

ÁC□c□?ÿ□?ÿ□□‡k€y□□i□W<3□†^aa_‰j^a□□□`FClears statistics for WAAS Express peers and negotiated capabilities.

€}A□^{TMTM}ÁGi

Àlèæ?ÿÇ*^<<À™™ÁĠ

Àlèæ?ÿ?ÿk€y jW<4
†^aa%j^aclass
€}Àî,5ÁGî

ÁC□c□?ÿ□□□Ç, □□^<-< □□□Àî,5ÁGï

ÁC□c□?ÿ□?ÿ□□‡k€y□□j□W<5□†ªªjª□□□`&Clears the statistics for each class.
€}À□™™™ÁW/
Àlèæ□?ÿ□□□Ç.□□^<<<!□□□À□™™™ÁW/
Àlèæ□?ÿ□?ÿ□□‡k€y□□k□W<6
†ªªjª□□□`□dre
€}Àî,5ÁW/
ÁC□c□?ÿ□□□Ç0□□^<< <"□□□Àî,5ÁW/
ÁC□c□?ÿ□?ÿ□□‡k€y□□k□W<7□†ªªjª□□□`5Clears Data Redundancy Elimination (DRE)
statistics.
€}À□™™™Áfo
Àlèæ□?ÿ□□□Ç2□□^<<<!<5□□□À□™™™Áfo
Àlèæ□?ÿ□?ÿ□□‡k€y□□l□W<8
†ªªjª□□□`□global

ÀÿÿÁöërÁ°|ïöæ%~<<\$ÀÿÿÁöërÁ°|ï|ïŠ,?^
†^{aa}Š™Äd<The following example enables CMNS on Ethernet interface 0:
^

(...UTŠDm□□□d□interface ethernet 0
Q^□□Dk□□□d
□cmns enable

[illegible]

[illegible]

²ffÀé/

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™™™ÀgùùÀgùùùùùùùù7ùù‡T‡_‰8,ùùùù‡T‡V‡X‡Z‡\‡^ùùù

\$Á%/
ÀRÌÍïïïïïöúïïŠ%<ï<*ïïï\$Á%/
ÀRÌÍïïïïïïïïïïïïïïïïŠF,XïïïïïWïJï†ªªŠ™Äïïïdï

ÀÿÿÂd%Á°Àkvcööé%~<'ÀÿÿÂd%Á°ÀkvcšÿpŠ,B^†aa†a
a
Q^—ª©d

À ☐ TMTM Á₀₀/

$$\dot{A}^\circ \square \square \square \ddot{i} \square \square \square \square \acute{o} \acute{i} \square \square \check{S} \% < (< 4 \square \square \square \grave{A} \square^{\text{TMTM}} \acute{A} \%_{\text{‰}} /$$

Á°üïïŠ, YW K[†]aŠTMÄdNo WAAS metrics are collected.

\$QÂ

TMTM□□□□öê□□Š/□Œ□□□\$QÂ

TMTM□□□□□□□□□□□□Š2,C□□□□WŒe□

lccÀ collect art

ÀTMÁ³-#Á°TMïTMöTMŠ%<4<.TMÀTMÁ³-#Á°TMïTMïTMŠF,[TMWTMMTM†^aŠTMÄTM
d@Flexible NetFlow flow record configuration (config-flow-record)
²ffQÂTMÂTMAwTMŠKTM²ffQÂTMÂTMŠŠ@<8<: ŠììÀRìÍ

\$ÁÝ

<ÀRÌÍïööŠ%< , <D\$ÁÝ

[illegible]

9

\$Â¼SÀRÌÍïïïïïöýïïŠ%<D<0ïïïï\$Â¼SÀRÌÍïïïïïïïïïïïïïïïïŠF,^ïïïïïWïSï†^aaŠ™Äïïïdï

ÀTMÀ¼SÁ°ÀBİöŞ%</<1ÀTMÀ¼SÁ°ÀBİÀBİŞF,_T†^{aa}
ŠTMÄdbUse the Ícollect waas x ßcommand to collect the various
metrics associated with WAAS.
U>TMÄ\$^The Measurement, Aggregation, and Correlation Engine (MACE) measures
TCP and non-TCP traffic. pŠTMÄ_WAAS performs operations like compression on
the matched packet and stores the statistics in a database. MACE uses a
poll mechanism to receive the statistics collected by WAAS each time it needs
D'to prepare the records for exporting.

\$Âb«hÂ

TMTM.£öÿŠ%<0<2\$Âb«hÂ

TMTM.£.£ŠF,`V†aa~M½\$UIf a flow matches both global WAAS and MACE policies, MACE exports both pre-WAAS and pM¼`post-WAAS metrics for the flow. If a flow matches the global MACE policy and does not match the D@global WAAS policy, MACE does not export the post-WAAS metrics.

ÀTMÂ!NxÁ°[©]±[^]÷^Š%<1ÀTMÂ!NxÁ°[©]±[^]•ÿpŠF,aW†^{aa}†^{aa}
\$bOnce the required measurement metrics are collected, MACE exports the
necessary information in an P'^a©D0FNF-v9 format to an external NetFlow
collector.

\$QÂ

TMTM□□□□êê□□%C□<6□□□\$QÂ

TMTM□□□□□□□□□□□□□□%E,□□□□□□W‡,□

$\text{clear } xot \mathbb{A}^3$

\$Á³-#ÀRÌÍïïïïïóïïïŠ%<*<,ïïï\$Á³-#ÀRÌÍïïïïïïïïïïïïïïïŠF,ZïïïïïWïLï†ªªŠ™Äïïïdï
€}Àî,5Áfo
ÁCïcï?ÿïïïïÇ4ïï^<<"<=ïïïïÀî,5Áfo
ÁCïcï?ÿïï?ÿïï‡k€yïïlW<9ïï†ªªïïjªïïïï`'Clears global WAAS Express statistics.

ÀTMpÁ°«ÿÿêë%C<3<ÀTMpÁ°«ÿÿ«ÿÿ%_E,
†^{aa}†^{aa}\$aTo clear an X.25 over TCP (XOT) switched virtual circuit (SVC) or
reset an XOT permanent virtual ^a@DLcircuit (PVC), use the Êclear xot
ß command in privileged EXEC mode.
S†. “a”dUclear xot remote Ê Ì Îip-address port

□ □
□ □ local □ □

□ □ □ Î □ ip-address port

ÀÿÿpÁ°AAÿüêî%L%

^|ÀÿÿpÁ°ÀÄÿüÀÄÿü%N,"M†aa†aa\$To set the ATM cell
loss priority (CLP) field in the ATM cell header, use the Íclp-bit
command in FRF.5 'a@Dbor FRF.8 connect mode. To disable ATM CLP bit
mapping, use the pno form of this command.
†N "a"Acclp-bit Ê ß{ Ñ00 Î | Ñ100 Î | Ñmap-
de ß}
S†0¹URdIno Íclp-bit Ê ß{ Ñ00 Î | Ñ100 Î | Ñmap-
de ß}

ÀÿÿQÁ°ÀÿøóúŠK<ÀÿÿQÁ°ÀÿøÀÿø<-

,bX†^{aa}†^{aa}eBMetrics that are collected by MACE can be categorized as follows:

Y-^a@%Metrics that are provided by the MACE engine, for example, the number of packets and bytes, £^aApplication ID, Differentiated Services Code Point (DSCP), System Resource Check (SRC), and ¥UR£E

MACE address.

Metrics that are provided by the ART engine, for example, network delay. These metrics are available only for TCP flows.

Metrics that are provided by WAAS, for example, DRE input bytes. These metrics are available only when WAAS is configured and MACE is monitoring the WAAS traffic.

ÀÿÿÁ£Á°|ï÷ŠK‡<;ÀÿÿÁ£Á°|ï|ï<-
,e^†^aŠ™Äe=The following example shows how to collect all WAAS
metrics:
_(...UTŠDm;Router(config)#
flow record type mace my-waas-record
Q`¤Dk2Router(config-flow-record)#
collect waas all

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™™™Ás>ÊóôŠK<;²ffÁ\Á6Â

™™™Ás>ÊžpccccccCF<-,gcccCE

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,fCCEEWē†ªŠ™Ä@mÁ

\$QÂ

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TMTM□□□□□□□□□□□□Š@,h□□□□□WÆd□

l%ÂÃconnect (Frame RelaÄy)
€}À^{TMTM}Áu⁻ Àlèæ?ÿÇ6[^]<<5<CÀ^{TMTM}Áu⁻
†^aa%j^a`lz

Àlèæ?ÿ?ÿ‡k€ymW<:

À°pÁ°ÄÄÿ÷Š8<<€0À°pÁ°ÄÄÿÄÄÿŠ@,i^†aa†aa
\$gTo define connections between Frame Relay permanent virtual circuits (PVCs),
use the `connect` command in global configuration mode.
To remove connections, use the `no` form of this command.
`^ "a"dyconnect Ê connection-name interface dlci`

```
{
  i
  interface dlc i Ê ß |  p l2transport
```

}
C^|no íconnect Ê íconnection-name interface dlci


```
{
  interface dlc {
    beta |
    pol2transport
  }
}
```

$$\left\{ \begin{array}{l} \mathbf{I} \end{array} \right\}$$

\$Á@/ÀRÌÍï÷Š8ĚP<@ \$Á@/ÀRÌÍïïŠ@, lW^\$†^aŠ[™]Äd

ÀTMÁ@/Á°iô

Š8<?<AÀ™Á@/Á°iïŠ@,mW^%†ªŠÄd-No default
behavior or values

\$Áj-(ÀRÌÍïïïïï÷ïïïŠ8<@<vïïï\$Áj-(ÀRÌÍïïïïïïïïïïïïïïïŠ@,nïïïïïW^&ï†^aŠ™Äïïïdï

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TM™□□□□□□□□□□Š,2□□□□W‡w□

lÀ¼cmns enableÀ½
€}Àî,5Áu ÁCc?ÿÇ8^<=<IÀî,5Áu
ÁCc?ÿ?ÿ‡k€ymW<;†ªaj`#Clears Lempel-Ziv (LZ) statistics.

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TMTMžp|đ@Š%<.</\$Áp<UÂ

TMTMžpžpb?BŠF,]A

```
ÀÿQ°ií'S$?EÀÿQ°ii<
,JW†aaSMA@dFlexible NetFlow flow record configuration (config-flow-
record)
```

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TMTMžpí“Š4Œ<G²ffÀ| - 2Â
TMTMžpžp_____
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[illegible]

[illegible]

Description

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debug waas
€}ÀüÿÿÀao□ÁÀ
□?ÿ□□□Ç^□□^x<S<U□□□ÀüÿÿÀao□ÁÀ
□?ÿ□?ÿ□□□ €{□□s□W<S†aa%ja□□□`CDisplays debugging information for different WAAS
Express modules.
€}ÀüÿÿÀp¯□l□?ÿ□□□Ç`□□^x<T<V□□□ÀüÿÿÀp¯□l□?ÿ□?ÿ□□□ €{□□t□W<T †aa%ja□□□`□show waas
alarms
€}ÀüÿÿÀp¯□ÁÀ
□?ÿ□□□Çb□□^x<U<W□□□ÀüÿÿÀp¯□ÁÀ
□?ÿ□?ÿ□□□ €{□□t□W<U†aa%ja□□□`)Displays WAAS Express status and alarms.
€}ÀüÿÿÀi□l□?p□□□Çd□□^x<V<X□□□ÀüÿÿÀi□l□?p□?p□□□ €{□□u□□<V †aa%ja□□□ □show waas
auto-P•j©□□□@
discovery
€}ÀüÿÿÀi□ÁÀ
>?p□□□Çf□□^x<W<Y□□□ÀüÿÿÀi□ÁÀ
>?p□?ÿ□□□ €{□□u□W<W†aa%ja□□□`7Displays information about WAAS Express
autodiscovery.
€}ÀüÿÿÀ>/□l□?ÿ□□□Çh□□^x<X<Z□□□ÀüÿÿÀ>/□l□?ÿ□?ÿ□□□ €{□□v□W<X †aa%ja□□□`□show waas
connection
€}ÀüÿÿÀ>/□ÁÀ
□?ÿ□□□Çj□□^x<Y<[□□□ÀüÿÿÀ>/□ÁÀ
□?ÿ□?ÿ□□□ €{□□v□W<Y†aa%ja□□□`5Displays information about WAAS Express
connections.
€}ÀüÿÿÀao□l□?p□□□Çl□□^x<Z<\□□□ÀüÿÿÀao□l□?p□?p□□□ €{□□w□□<Z †aa%ja□□□ □show waas
statistics P•j©□□□@aoim
€}ÀüÿÿÀao□ÁÀ
>?p□□□Çn□□^x<[<]□□□ÀüÿÿÀao□ÁÀ
>?p□?ÿ□□□ €{□□w□W<[†aa%ja□□□`DDisplays WAAS Express peer information and
negotiated capabilities.
€}ÀüÿÿÀA¯□l□?p□□□Çp□□^x<\<^□□□ÀüÿÿÀA¯□l□?p□?p□□□ €{□□x□□<\ †aa%ja□□□ □show waas
statistics P•j©□□□@

```

application
€}ÀüÿÿÀÀ_ÁÇÀ
>?pÇr^x<[_ÀüÿÿÀÀ_ÁÇÀ
>?pÿ€{xW<]†ªjª`5Displays WAAS Express policy application
statistics.
€}ÀüÿÿÀÀi>?pÇt^x<^`ÀüÿÿÀÀi>?p>?p€{y<^ †ªjª show waas
statistics P•j@auto-discovery
€}ÀüÿÿÀÀiÁÇÀ
>?pÇv^x<_<aÀüÿÿÀÀiÁÇÀ
>?pÿ€{yW<_†ªjª`0Displays WAAS Express autodiscovery statistics.
€}ÀüÿÿÀÜ/
l>?pÇx^x<`<bÀüÿÿÀÜ/
l>?p>?p€{z<` †ªjª show waas statistics P•j@class
€}ÀüÿÿÀÜ/
ÁÇÀ
>?pÇz^x<a<cÀüÿÿÀÜ/
ÁÇÀ
>?pÿ€{zW<a†ªjª`4Displays statistics for the WAAS Express class
map.
€}ÀüÿÿÁo
l>?pÇ|^x<b<dÀüÿÿÁo
l>?p>?p€{z{<b †ªjª show waas statistics P•j@dre
€}ÀüÿÿÁo
ÁÇÀ
>?pÇ~^x<c<eÀüÿÿÁo
ÁÇÀ
>?pÿ€{z{W<c†ªjª`&Displays WAAS Express DRE statistics.
€}ÀüÿÿÁ2~ l>?pÇ€^x<d<fÀüÿÿÁ2~ l>?p>?p€{z|<d†ªjª show
waas statistics P•j@errors
€}ÀüÿÿÁ2~ ÁÇÀ
>?pÇ,|^x<e<gÀüÿÿÁ2~ ÁÇÀ
>?pÿ€{z|W<e†ªjª`(Displays WAAS Express error statistics.
€}ÀüÿÿÁMi>?pÇ,,|^x<f<hÀüÿÿÁMi>?p>?p€{z}{<f †ªjª show waas
statistics P•j@global
€}ÀüÿÿÁMiÁÇÀ
>?pÇ†|^x<g<iÀüÿÿÁMiÁÇÀ
>?pÿ€{z}{W<g†ªjª`)Displays global WAAS Express statistics.
€}ÀüÿÿÁi/ol?ÿÇ~|^x<h<jÀüÿÿÁi/ol?ÿ?ÿ€{z~W<h †ªjª show waas
statistics lz
€}ÀüÿÿÁi/ÁÇÀ
?ÿÇŠ|^x<i<kÀüÿÿÁi/ÁÇÀ
?ÿ?ÿ€{z~W<i†ªjª`%Displays WAAS Express LZ statistics.
€}ÀüÿÿÁxo>l>?pÇ€|^x<j<lÀüÿÿÁxo>l>?p>?p€{z}{<j †ªjª show waas
statistics P•j@
pass-through
€}ÀüÿÿÁxoÁÇÀ
>?pÇŽ|^x<k<mÀüÿÿÁxoÁÇÀ
>?pÿ€{zW<k†ªjª`ADisplays WAAS Express connections placed in a
pass-through mode.
€}ÀüÿÿÁ^~>l>?pÇ|^x<l<nÀüÿÿÁ^~>l>?p>?p€{z,|<l †ªjª show waas
statistics P•j@peer
€}ÀüÿÿÁ^~ÁÇÀ
>?pÇ'|^x<m<oÀüÿÿÁ^~ÁÇÀ
>?pÿ€{z,|W<m†ªjª`HDisplays inbound and outbound statistics for peer
WAAS Express devices.
€}ÀüÿÿÁ@i>l?ÿÇ|^x<n<pÀüÿÿÁ@i>l?ÿ?ÿ€{z,|W<n†ªjª show waas
status
€}ÀüÿÿÁ@iÁÇÀ
?ÿÇ-|^x<o<qÀüÿÿÁ@iÁÇÀ
?ÿ?ÿ€{z,|W<o†ªjª`%Displays the status of WAAS Express.
€}ÀüÿÿÁ%.>l>?pÇ|^x<p<rÀüÿÿÁ%.>l>?p>?ÿ€{z,|W<p †ªjª show waas

```


token

€}ÀûÿÿÁ%.ÿÁÀ

>?pÇŠ~x<q<sÀûÿÿÁ%.ÿÁÀ

>?p>?p €{, <q†^a%j^a GDDisplays the value of the configuration token
used by the WAAS Central P•j©@ Manager.

€}ÀûÿÿÁÛñÿl?ÿÇæ~x<r<tÀûÿÿÁÛñÿl?ÿ?ÿ €{, W<r †^a%j^a`waas cm-
register url

€}ÀûÿÿÁÛñÿÁÀ

?ÿÇŽ~x<sÀûÿÿÁÛñÿÁÀ

?ÿ?ÿ €{, W<s†^a%j^a`2Registers a device with the WAAS Central Manager.

À°pÁ°Àëÿù÷\$ŠB<yÀ°pÁ°ÀëÿùÀëÿùE#,{^I†aa†aa
\$bTo configure an FRF.5 one-to-one or many-to-one connection between two Frame
Relay end users over a@ian intermediate ATM network, use the
 îconnect ß command in global configuration mode. To remove a —
ÿpL<connection, use the pno ß form of this command.Àî
^J ^as\$connect Ê î îconnection-name ß { ß Ñvc-group
 î group-name

```

|  fr-interface fr-dlci    }  atm-interface atm-vpi    p/
    vci
@a|  network-interworking
^K  AV¥$yno connect    Ê  connection-name    {  ~vc-group
    group-name | fr-interface fr-dlci    }  atm-interface R
@a  D5atm-vpi    p/  vci    {  ~network-interworking

```

Ä^{TMTM}Áj-(Á°□□□□i□□□□÷□□□Š8<A<x□□□Ä^{TMTM}Áj-(Á°□□□□i□□□□□□□□□□□□□□□Š@,o□□□□□W^'□†^{aa}Š^{TMA}□□□d□Global configuration

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e following example shows how to enable Frame Relay switching and define a
connection called 'a@DPðoneÓ between DLCI 16 on serial interface 0 and DLCI
100 on serial interface 1.
^>(…UTçURdframe-relay switching
Q^?-UPd#connect one serial0 16 serial1 100

\$Á"

AÀRÌÍïï÷Š8<v<|ïï\$Á"

AÀRÌÍïïïïïïïïïïïïïïïŠ@,pïïïïï^d^f^h^j^l^n^pï^d^f^h^j^l^n^pW^6ï†^{aa}Š™Äïï@lïïïÀÆï

\$ÀñÿùÀRìÍïîô. ŠB<u>}\$ÀñÿùÀRìÍïîî

%□%□%□%□%□%□%□%□%□%

% % % % % % W ^ Z † a Š Ä @ l À Í

ÀÿÿpÁ°AAÿüë

%~<B<{ÀÿÿpÁ°AAÿüAAÿüŠ,3x†aa†aa,wTo
À%enable the Connection-Mode Network Service (CMNS) on a Ànonserial
interface, use the Ëcmns enable ß 'a©Dpcommand in interface
configuration mode. To disable this capability, use the pno ß form
of this command.
†y "a"dd

cmns enable

S\$z¹URdno Ícmns enable

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□□%~<zŠ(□□²ffÄİyüÀRİİïï□□□□□□□□□□□□Š,4□□□□W†{□†ªaš™Ă□□□d□

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^{TMTM}À, ĺ÷À, ĺ÷□□□□□□A□□^d^qŠ@, q□□□^d^f^h^j^l^n^p□□□

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TMÀÊ¿ñ□□□÷%□□ŠB<y<□□□□\$Àó/□Â
TMÀÊ¿ñÀÊ¿ñ□□□□□□C□□‰

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Global configuration

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 , Q □□□□□□□□□□□□ W 2 □†^{a a} Š™ Ä □□ @ l □□ Á □□

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%ï%"%\$%&%ï%ï%- %ï%"%\$%&W^k†ªā\$T̄M̄Äö@lïïïâÎï

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ÀÿÿÀ²¿Á°ÀGiô9%ÆÆÀÿÿÀ²¿Á°ÀGiÀGi%If^m†aa
Š™Á\$FUse the Íconnect ß command to connect a group of Frame Relay
DLCIs to an ATM permanent virtual -™ÃDcircuit (PVC).
^nŠ™Á\$CTo connect to the Frame Relay DLCI that has been configured on the
interface, the Frame Relay DLCI ³™ÁDemust be configured on the interface
using the Êframe-relay interface-dlci switched ß command.
Q^òÀ™ÁdpTo disconnect the FRF.5 interworking connection, use the Í
Íshutdown ß ß ß command in FRF.5 connect mode.

AdÃÈMCEB

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[illegible]

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□□□

□□□Š2,D□□□□□f□†aa†aa□□□%nTo collect Application Response Time (ART) metrics, use the □□ Í□collect art□□ □□ command in Flexible NetFlow □'a@□□□□lflow record configuration mode. To disable the collecting of ART metrics, use the □□

□□no□□ □□ form of this □-ÿp□□□E command.

□Eg 'a\$□□□%€7collect art □□ □□{□□ Ñ□all □□ □□|□□ Ñ□ client □□ □□{□□
Ñ□bytes□□ □□|□□ Ñ□ network time □□ □□{□□ Ñ□maximum □□
□□|□□ Ñ□ minimum □□ □□|□□ Ñ□ sum□□ □□} | □□ Ñ□packets□□ □□} | □□
Ñ□count □□À@a|□□□□€□{□□ Ñ□late responses □□ □□|□□ Ñ□ new connections
□□ □□|□□ Ñ□ responses histogram □□ □□|□□ Ñ□ retransmissions □□ □□|□□ Ñ□

transactions□□ □□} |□□ Ñ□ □
μUQ□□□□€□network time □□ □□{□□ Ñ□maximum □□ □□|□□ Ñ□minimum □□
□□|□□ Ñ□ sum□□ □□} | □□ Ñ□response time □□ □□{□□ Ñ□maximum □□
□□|□□ Ñ□ minimum □□ □□|□□ Ñ□sum□□ □□} □□^{oa}|□□□□€7|□□ Ñ□

server□□ □□ {□□ Ñ□bytes □□ □□|□□ Ñ□ packets □□ □□|□□ {□□
Ñ□network□□ □□|□□ Ñ□ response□□ □□}□□ Ñ□ time □□ □□{□□
Ñ□maximum □□ □□|□□ Ñ□ minimum □□ □□|□□ Ñ□ sum□□ □□} |□□ Ñ□

total □□^{oa}|□□□□Ev{□□ Ñ□response □□ □□|□□ Ñ□transaction□□ □□}□□ Ñ□
time □□ □□{□□ Ñ□maximum □□ □□|□□ Ñ□minimum □□ □□|□□

Ñ□sum□□ □□}}

□Eh Åza¢□□□%€?no collect art □□ □□{□□ Ñ□all □□ □□|□□ Ñ□ client □□
Ê□{□□ Ñ□bytes□□ Ê□ □□ □□|□□ Ñ□ network time □□ □□{□□ Ñ□maximum □□
□□|□□ Ñ□ minimum □□ □□|□□ Ñ□ sum□□ □□} | □□ Ñ□packets□□ □□} | □□
Ñ□count □□À†a;□□□□€□{□□ Ñ□late responses □□ □□|□□ Ñ□ new connections
□□ □□|□□ Ñ□ responses histogram □□ □□|□□ Ñ□ retransmissions □□ □□|□□ Ñ□

transactions□□ □□} |□□ Ñ□ □
«UP□□□□€□network time □□ □□{□□ Ñ□maximum □□ □□|□□ Ê□ □□ Ñ□minimum □□
□□|□□ Ñ□ sum□□ □□} |□□ Ê□ □□ Ñ□response time □□ □□{□□
Ñ□maximum □□ □□|□□ Ñ□ minimum □□ □□|□□ Ê□ □□ Ñ□sum□□ □□}

□□ÿÿùUR□□□□€A|□□ Ñ□ server□□ Ê□ {□□ Ñ□bytes □□ □□|□□ Ñ□ packets □□
□□|□□ Ê□ □□ □□{□□ Ñ□network□□ Ê□ |□□ Ñ□ response□□ □□}□□ Ñ□ time

□□ □□{□□ Ñ□maximum □□ □□|□□ Ñ□ minimum □□ Ê□|□□ Ñ□ sum□□ □□} |□□
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Ñ□transaction□□ □□}□□ Ñ□ time □□ □□{□□ Ñ□maximum □□ □□|□□ Ê□ □□
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ÀÿÿÁ°Á°ÁIià÷)%%ÁÿÿÁ°Á°ÁIiàÁIià-
%%If^q†aa\$™Á\$The following example shows how to create an FRF.5
one-to-one connection (not using the `vc-group` `frf` `frf` keyword):

```
^r\...UT¡DlRouter(config)#  
interface serial0/0  
^s°DjRouter iouter(config-if)#  
frame-relay interface-dlci 100 switched  
^tRouter.R iouter(config-if)#  
interface atm1/0  
^uRouter&R iouter(config-if)#  
pvc 0/32  
^vRouterFR iouter(config-if-atm-vc)#  
encapsulation aal5mux frame-relay  
^w(Router (config-if-atm-vc)#  
  
exit  
^xRouter (config-if)#  
exit  
^y\Router(config)#  
connect frf5 serial0/0 100 atm1/0 0/32 network-interworking  
^zRouter iouter(config-frf5)#  
clp-bit 1  
^{Router iouter(config-frf5)#  
de-bit map-clp  
^|(  
^}†aaÀ•™-Router$The following example shows how to create an FRF.5 many-to-one  
connection (using the vc-group frf frf keyword):
```

key word):

```
^~\...UT±DTRouter(config)#  
interface serial1/0  
^À»DRRouter iouter(config-if)#  
frame-relay interface-dlci 100 switched  
%Router (config-if)#  
exit  
%\Router(config)#  
vc-group friends  
%Router(config-vc-group)#  
serial1/0 16 16  
%Router(config-vc-group)#  
serial1/0 17 17  
%Router(config-vc-group)#  
serial1/0 18 18  
%Router(config-vc-group)#  
serial1/0 19 19  
%(Router (config-vc-group)#  
exit  
%\Router(config)#  
interface atm1/0  
%Router&R iouter(config-if)#  
pvc 0/32  
% RouterFR iouter(config-if-atm-vc)#  
encapsulation aal5mux frame-relay  
%  
(Router (config-if-atm-vc)#  
exit  
%  
Router (config-if)#  
exit  
%
```

```
\dARouter(config)#  
connect frf5-v vc-group friends atm1/0 0/32  
A%  
d.R iouter(config-frf5)#  
de-bit map-clp
```

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TM,oTMÄÇTMWhen Frame Relay switching is enabled, the TM ÍTMconnectTM ßTM
command creates switched PVCs in Frame Relay P-TMÄTMDTM
networks.

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`lxc-cpu-threshold`

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□□□ l□□ÀÉ□ conn□□ÀÊ□ ec□□ÀË□ t (FRF.5)

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Description

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lÀconnect (FRF.8)ÀÑ
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ë_ÀËff?ÿôQ/ËËÀÿÿÂ
ë_ÀËff?ÿ?ÿËËV,ËËWËa:†^a%j^a`frame-relay switching

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ÀRÌÍïïⒺBfⒺW%/†ªªŠ™Äd
€}ÁfeÂ
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ë_Á%ff?ÿ?ÿⒺEK€V,ⒺWⒺb†ªªjª`3Enables PVC switching on a Frame Relay DCE
or NNI.

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,N"†aŠÄ_Use the Ícollect art × ßcommand to collect the various metrics associated with ART.

#>™Ä\$^The Measurement, Aggregation, and Correlation Engine (MACE) measures TCP and non-TCP traffic. \$™ÄDBMetrics that are collected by MACE can be categorized as follows:

\$,™Ä\Metrics that are provided by the MACE engine, for example, the number of packets and bytes.

%Äÿü\$[Metrics that are provided by the ART engine, for example, network delay. These metrics are ÄU™¿D-available only for TCP flows.

&ÄF™¾\$VMetrics that are provided by Wide Area Application Services (WAAS), for example, Data Är™½XRedundancy Elimination (DRE) input bytes. These metrics are available only when WAAS is ÄsíE™D4configured and MACE is monitoring the WAAS traffic.

'Ä™»\$dMACE leverages the capabilities of the ART engine to collect measurements associated with TCP-based PÄ>™ºDapplications.

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l/connect (L2ŠVPN local switch<chingÆ)

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d-Global configuration (config)

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ff□?ÿ□?ÿ□□^□□□,
□W€□□†^a‰j^a□□□`#(Optional) Specifies an ACR group.
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group-number
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W-+a%ja`'Number of the group. The default is 0.
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€}ÀÿÿÁ_nÁM?ÿÿÿÏ';E0E2ÀÿÿÁ_nÁM?ÿ?ÿÿÿÿ,WE&+a%ja`
Modification
€}ÀÿÿÁ-ÿmc?ÿÿÿÏ);E1E3ÀÿÿÁ-ÿmc?ÿ?ÿÿÿÿ,WE'+a%ja`11.1CC
€}ÀÿÿÁ-ÿmÁM?ÿÿÿÏ+;E2E4ÀÿÿÁ-ÿmÁM?ÿ?ÿÿÿÿ,WE(+a%ja`This
command was introduced.
€}ÀÿÿÁ»Blc?ÿÿÿÏ-;E3E5ÀÿÿÁ»Blc?ÿ?ÿÿÿÿ,WE)+a%ja`

12.2(33)SRA

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command is supported in the Cisco IOS Release 12.2SX train. Support in

p•j@□□□□□0a specific 12.2SX release of this train depends on your feature set,

platform, □□□@□□and platform hardware.

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command was modified. The □□ Ñ□acr□□ □□ keyword was added.

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Description

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aps protect

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s a POS interface as a protect interface.

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aps working

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res a POS interface as a working interface.

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ÄdOUse the Íconnect ß command to connect a Frame Relay DLCI to an ATM
PVC.
Q%>™Äd`To disconnect the FRF.8 interworking connection, use the Íshutdown ß connect subcommand.

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ˆiŠ@,uˆ:†^{aa}ŠTMÄ\$The following example shows how to define
a connection called òfrompls1Ó with DLCI 100 on serial —TMÄDinterface 5/0.
ˆ;(...UT!Dl+d+connect frompls1 Serial5/0 100 l2transport
W<†^{aa}±TMÄd

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TMTMžpžpK
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backup peer

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f3ƐN□□□□Äİ^{TMTM}ÁĵîöÁD□□□?Ÿ□?Ÿ□□„!□□□,J□wŽ□□†^a‰^j^a□□□`1Configures a redundant peer
for a pseudowire VC.

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+^Á°□□À°Ô¢%ÿÿ□□□□□□□□□□□□Hf, □□□□wŒ\□†aa†aa□□□d□
E□□²ffQÂ
^{TMTM}Â□□□□□□÷V□□ŒS□□□□□²ffQÂ
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 †^aa%_{oo}j^aaaall
 \$QÂ
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 TMTMÂEBEQEAŠìÀRìÍ

ÀÿÿpÁ°ÀÄÿü÷e[ES]ÀÿÿpÁ°ÀÄÿüÀÄÿüEVf.<u†aa†aa
\$mTo set the CPU threshold limit, use the Ícpu-threshold ß command in
parameter-map configuration mode. 'a@DITo reset the threshold limit, use the
pno ß form of this command.
<v "a"d+cpu-threshold Ímaximum-threshold ß
A<wdd.no cpu-threshold Ímaximum-threshold ß

[illegible]

²f fÀİyüÀRİİİ i ÷ f GSG[C^² f fÀİyüÀRİİİ i i f v f / ^ ^ W < z †^aŠ
™Ä @ l Àý

²ffÀİ/□Â

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TMTM□?ÿ□?ÿ□□□□□□X□□^□^RÆVfθ□□□^□□□□

$$\begin{aligned} &^2ff\grave{A}u\grave{o}\grave{A}\grave{R}\grave{I}\grave{I}\ddot{i}\div h\grave{C}S\grave{C}^{\wedge}{}^2ff\grave{A}u\grave{o}\grave{A}\grave{R}\grave{I}\grave{I}\ddot{i}\ddot{i}\grave{C}Vf1W<\{\uparrow^aa\grave{S}^{\text{TM}}\grave{A} \\ &\text{d} \\ &\text{€}\}\grave{A}\acute{I}^{\text{TM}}\acute{A};/ \end{aligned}$$

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Š/ÆGÆa□□□ÀıTMÁ;/

ÁD???ÿ?ÿ??
??,??W?j?†a%ja???aCollects all ART metrics.
€}À?TMÁJo
l?ÿ???ã}
Š/Æ`Eb???À?TMÁJo
l?ÿ?ÿ??
??,??W?k
†a%ja???aclient
€}À?TMÁJo
ÁD???ÿ???ã?
Š/ÆaEc???À?TMÁJo
ÁD???ÿ?ÿ??
??,??W?l?†a%ja???aCollects ART client metrics.
€}À?TMÁY[—]
l?ÿ???ã???Š/ÆbEd???À?TMÁY[—]
l?ÿ?ÿ??
??,??W?m
†a%ja???abytes
€}À?TMÁY[—]
ÁD???ÿ???ãf???Š/ÆcEe???À?TMÁY[—]
ÁD???ÿ?ÿ??
??,??W?n?†a%ja???a/Measures the number of bytes sent by a client.
€}À?TMÁh? l?ÿ???ã...???Š/ÆdEf???À?TMÁh? l?ÿ?ÿ??
??, -?W?o
†a%ja???anetwork
€}À?TMÁh? ÁD???ÿ???ã†???Š/ÆeEg???À?TMÁh? ÁD???ÿ?ÿ??
??, -?W?p?†a%ja???a%Collects ART client network metrics.
€}À?TMÁx/?l?ÿ???ã%???Š/ÆfEh???À?TMÁx/?l?ÿ?ÿ??
??,??W?q
†a%ja???atime
€}À?TMÁx/?ÁD???ÿ???ã<???Š/ÆgEi???À?TMÁx/?ÁD???ÿ?ÿ??
??,??W?r?†a%ja???a)Collects ART client network time metrics
€}À?TMÁ?o?l?ÿ???ã???Š/ÆhEj???À?TMÁ?o?l?ÿ?ÿ??
??, ??W?s
†a%ja???amaximum
€}À?TMÁ?o?ÁD???ÿ???ã???Š/ÆiEk???À?TMÁ?o?ÁD???ÿ?ÿ??
??, ??W?t?†a%ja???a*Measures the maximum client network time.
€}À?TMÁ-?l?ÿ???ã'???Š/ÆjEl???À?TMÁ-?l?ÿ?ÿ??
??, !?W?u
†a%ja???aminimum
€}À?TMÁ-?ÁD???ÿ???ã"???Š/ÆkEm???À?TMÁ-?ÁD???ÿ?ÿ??
??, !?W?v?†a%ja???a4Measure??? ?s??? ?s the minimum client network time.
€}À?TMÁ?i?l?ÿ???ã•???Š/ÆlEn???À?TMÁ?i?l?ÿ?ÿ??
??, "??W?w
†a%ja???asum
€}À?TMÁ?i?ÁD???ÿ???ã-???Š/ÆmEo???À?TMÁ?i?ÁD???ÿ?ÿ??
??, "??W?x?†a%ja???a(Measures the total client network time.
€}À?TMÁ?μ/?l?ÿ???ã?TM???Š/ÆnEp???À?TMÁ?μ/?l?ÿ?ÿ??
??, #??W?y
†a%ja???apackets
€}À?TMÁ?μ/?ÁD???ÿ???ã>???Š/ÆoEq???À?TMÁ?μ/?ÁD???ÿ?ÿ??
??, #??W?z?†a%ja???a9Measure??? ?s??? ?s the number of packets sent by
client.
€}À?TMÁ?Äo?l?ÿ???ã???Š/ÆpEr???À?TMÁ?Äo?l?ÿ?ÿ??
??, \$??W?{
†a%ja???acount
€}À?TMÁ?Äo?ÁD???ÿ???ãY???Š/ÆqEs???À?TMÁ?Äo?ÁD???ÿ?ÿ??
??, \$??W?|?†a%ja???aCollects ART count metrics.
€}À?TMÁ?Ó-?l?ÿ???ã;???Š/ÆrEt???À?TMÁ?Ó-?l?ÿ?ÿ??
??, %??W?}
†a%ja???alate

€}Àí™™™ÁÓ™ÁD□□□□?ÿ□□□ã£□□Š/ÆsÆu□□□Àí™™™ÁÓ™ÁD□□□□?ÿ□?ÿ□□Æ
□□□,%□WÆ~□†ªªjª□□□a!Collects ART count late metrics.
€}À□™™™Áâi□l□?ÿ□□□ã¥□□Š/ÆtÆv□□□À□™™™Áâi□l□?ÿ□?ÿ□□Æ
□□□,&□WÆ□
†ªªªjª□□□a
responses
€}Àí™™™Áâi□ÁD□□□□?ÿ□□□ã\$□□Š/ÆuÆw□□□Àí™™™Áâi□ÁD□□□□?ÿ□?ÿ□□Æ
□□□,&□W□□□†ªªªjª□□□a"Measures the number of responses.
€}À□™™™Áò/□l□?ÿ□□□ã©□□Š/ÆvÆx□□□À□™™™Áò/□l□?ÿ□?ÿ□□Æ
□□□,'□W□□
†ªªªjª□□□a□new
€}Àí™™™Áò/□ÁD□□□□?ÿ□□□ã«□□Š/ÆwÆy□□□Àí™™™Áò/□ÁD□□□□?ÿ□?ÿ□□Æ
□□□,'□W□□□†ªªªjª□□□a+Collects ART count new connection metrics.
€}À□™™™Áñÿl□?ÿ□□□ã-□□Š/ÆxÆz□□□À□™™™Áñÿl□?ÿ□?ÿ□□Æ
□□□,(□W□□
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connections

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□□□,(□W□□□†^{a a%}j^a□□□a(Measures the number of new connections.
€}À^{TMTM}Â@pł?ÿ□□□ã±□□Š/Æz€|□□□À^{TMTM}Â@pł?ÿ□?ÿ□□€
□□□,)□W□□
†^{a a%}j^a□□□a

responses

€}Àí^{TMTM}Â@pÁD□□□?ÿ□□□ã³□□Š/Æ{€}□□□Àí^{TMTM}Â@pÁD□□□?ÿ□?ÿ□□€
□□□,)□W□□□†^{a a%}j^a□□□a,Measure□□ □□□□ □□ the number of responses.
€}À^{TMTM}Âíýł?ÿ□□□ãμ□□Š/Æ|€~□□□À^{TMTM}Âíýł?ÿ□?ÿ□□€
□□□,*□W□□
†^{a a%}j^a□□□a

histogram

€}Àí^{TMTM}ÂíýÁD□□□?ÿ□□□ã·□□Š/Æ{€}□□□Àí^{TMTM}ÂíýÁD□□□?ÿ□?ÿ□□€
□□□,*□W□□□†^{a a%}j^a□□□a=Collects □□ □□ the □□ □□ response count buckets for
histogram.

€}À^{TMTM}Â/.üł?ÿ□□□ã¹□□Š/Æ~□□□□□À^{TMTM}Â/.üł?ÿ□?ÿ□□€
□□□,+□W□□

†^{a a%}j^a□□□a□retransmissions

€}Àí^{TMTM}Â/.üÁD□□□?ÿ□□□ã»□□Š/Æ□□□□□Àí^{TMTM}Â/.üÁD□□□?ÿ□?ÿ□□€
□□□,+□W□□

□†^{a a%}j^a□□□a(Measures the number of retransmissions.

€}À^{TMTM}Â>nûł?ÿ□□□ã½□□Š/□□□□□□□À^{TMTM}Â>nûł?ÿ□?ÿ□□€
□□□,,□W□□

†^{a a%}j^a□□□a

transactions

€}Àí^{TMTM}Â>nûÁD□□□?ÿ□□□ã¿□□Š/□□□□□□□Àí^{TMTM}Â>nûÁD□□□?ÿ□?ÿ□□€
□□□,,□W□□

†_{a%}j_a /Measure β s β the number of transactions.
€}À^{TMTM}ÂM@ú_l?ÿ_lã_lŠ/_lÀ^{TMTM}ÂM@ú_l?ÿ?ÿ_l€
_l, -_lW_l
†_{a%}j_a network
€}À^{TMTM}ÂM@ú_lAD_l?ÿ_lã_lŠ/_lÀ^{TMTM}ÂM@ú_lAD_l?ÿ?ÿ_l€
_l, -_lW_l

␣†aa%ja␣␣␣a"Collects the ART network metrics.
€}À␣^{TMTM}Â\îùł?ÿ␣␣ãĀ␣Š/␣␣␣␣␣À␣^{TMTM}Â\îùł?ÿ␣?ÿ␣␣␣
␣␣, .␣W␣
†aa%ja␣␣␣a response
€}Āı^{TMTM}Â\îùĀD␣␣?ÿ␣␣ãÇ␣Š/␣␣␣␣␣Āı^{TMTM}Â\îùĀD␣␣?ÿ␣?ÿ␣␣␣
␣␣, .␣W␣␣†aa%ja␣␣␣a.Collects the total ART response time metrics.
€}À␣^{TMTM}Āł.øł?ÿ␣␣ãĒ␣Š/␣␣␣␣␣À␣^{TMTM}Āł.øł?ÿ␣?ÿ␣␣␣
␣␣, /␣W␣
†aa%ja␣␣␣a␣server
€}Āı^{TMTM}Āł.øĀD␣␣?ÿ␣␣ãĔ␣Š/␣␣␣ ␣␣Āı^{TMTM}Āł.øĀD␣␣?ÿ␣?ÿ␣␣␣
␣␣, /␣W␣␣†aa%ja␣␣␣a!Collects the ART server metrics.
€}À␣^{TMTM}Ā{n÷ł?ÿ␣␣ãĪ␣Š/␣␣
␣␣À␣^{TMTM}Ā{n÷ł?ÿ␣?ÿ␣␣␣
␣␣, Ø␣W␣
†aa%ja␣␣␣a␣total
€}Āı^{TMTM}Ā{n÷ĀD␣␣?ÿ␣␣ãĬ␣Š/␣ ␣
␣␣Āı^{TMTM}Ā{n÷ĀD␣␣?ÿ␣?ÿ␣␣␣
␣␣, Ø␣W␣␣†aa%ja␣␣␣a Collects the total ART metrics.
€}À␣^{TMTM}ĀŠ®øł?ÿ␣␣ãŃ␣Š/␣
␣

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,1W
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transaction

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□□□□Ài^{TMTM}ÂŠ@öÁD□□□?ÿ□?ÿ□□€

□□□,1□W□□□†^a‰j^a□□□a,Collects the total ART transaction metrics.

€}À□ÿÿÀ|-2l□?ÿ□□□ãû□□Š4□□

ÀÿÿÀ|-2l?ÿ?ÿ<F,2W†^a%j^aRelease
€}ÀÿÿÀ|-2ÁD?ÿÿÿãÝŠ4
ÀÿÿÀ|-2ÁD?ÿ?ÿ<F,2W†^a%j^a
Modification
€}ÀÿÿÀ<^1l?ÿÿÿãßŠ4

ÀÿÿÀ<^1l?ÿ?ÿ<F,3W-†ªja 15.1(4)M
€}ÀÿÿÀ<^1ÁD?ÿÿÿÿŠ4ÀÿÿÀ<^1ÁD?ÿ?ÿ<F,3W†ªjaThis
command was introduced.
€}ÀÿÿÁµ«ml?ÿÿÿÿŠ4ÀÿÿÁµ«ml?ÿ?ÿÿÿ,4W,†ªja`Command
€}ÀÿÿÁµ«mÁD?ÿÿÿÿ
Š4ÀÿÿÁµ«mÁD?ÿ?ÿÿÿ,4W-†ªja`

Description

€}ÀüÿÿÁÄëll?ÿöööãöŠ4öööööööÀüÿÿÁÄëll?ÿ?ÿ€ ööö,5wö.:†ªªjªööö`
collect waas

€}ÀüÿÿÁÄëLÁDööö?ÿöööãöŠ4öööööööÀüÿÿÁÄëLÁDööö?ÿ?ÿ€
ööö,5wö/öªªªjªööö`Collects the metrics provided by WAAS.

€}ÀüÿÿÁÔ+kl>?pöööãö

Š4öööööööÀüÿÿÁÔ+kl>?p?ÿ€ ööö,6wö0:†ªªªjªööö`flow record type mace

€}ÀüÿÿÁÔ+kÁD>?pöööãú

Š4öööööööÀüÿÿÁÔ+kÁD>?p>?p€ ööö,6ööö1öªªªjªööö KDefines the key and nonkey
fields that are collected and exported for flow P•j©ööö@record öö ßöof öö
ßötype MACE.

[illegible]

ÀTMÀŽýýÁ°TMÁ}nþTMö~TMf_„5TM-TMÀTMÀŽýýÁ°TMÁ}nþÁ}nþTM!TM!TMfa€TM,;†TMaa
ŠTMÄTM lThe following example shows TM how to configure TM a
Multiprotocol Label Switching (MPLS) xconnect with TMÄTM@one redundant peer:
TM,<(…UT!DlTM`+Router(config)#TM

```
□pseudowire-class mpls
□,=°Dj□□□`1Router(config-pw-class)#□□□
```

```
encapsulation mpls
>
?Router(config)#
```

```
❑ interface serial0/0
❑ , @❑❑❑ `<Router(config-if)#❑❑❑
```

```
xconnect 10.0.0.1 100 pw-class mpls
,A000`7Router(config-if-xconn)#000
```

```
backup peer 10.0.0.2 200
```

```
B
```

The following example shows how to configure a local-switched connection between ATM and a frame relay network using Ethernet interworking. The frame relay network is backed up by an MPLS pseudowire.

```
D(...UT%D\+Router(config)#
```

```
□pseudowire-class mpls
□,EÀ"DZ□□□`1Router(config-pw-class)#□□□
```

```
encapsulation mpls
F4Router(config-pw-class)#
```



```
interworking ethernet
"      `
...%`RRouter(config)#
```

```
□connect atm-fr atm1/0 100/100 s2/0 100 interworking ethernet
□$
```

□□□`?Router(config-if)#□□□

```
backup peer 10.0.0.2 100 pw-class mpls
```

```
$
```

The following example shows how to configure a pseudowire with two backup pseudowires:

```
interface ATM4/0.1 point-to-point
```

```
pvc 0/100 l2transport
```

```
encapsulation aal5snap
```

```
& xconnect 10.1.1.1 100 pw-class mpls
```

```
backup peer 10.1.1.1 101
```

```
( backup peer 10.10.1.1 110 priority 2
```

```
( backup peer 10.20.1.1 111 priority 9
```

```
$
```

Cisco CMTS Routers: Example

```
$
```

The following example shows how to set a redundant peer for a pseudowire.

```
$
```

(...UTÁRÄ<□□□`□cable l2vpn 0011.0011.0011
□Ž
Á\Ä:□□□`□ service instance 1 ethernet
□Ž

```
encapsulation default
xconnect 10.2.2.2 22 encapsulation mpls
backup peer 10.3.3.3 33
```

[illegible]

²ffÀR/□Â

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™™™™Â}ÐçÁ-□ã□□□□□□W□□<Q<t^z, □□□□<Q<S<U<W<Y<[<]<_<a<c<e<g<i<k<m<o<q<s□□□

[illegible]

\$ÀÇ-\$Â

^{TMTM}Àd?ù□□□□1Ý□□EX□-ŒA□□□\$ÀÇ-\$Â

^{TMTM}Àd?ùÀd?ù□□□□□□H□□%f%oŒZf□□□□%f%h%j%l%n□□□

ÀTMÁf@Á°Àzið—/€M\$ÀTMÁf@Á°ÀziÀzi
□□□

□□□□Hf)□□□□Š

□†^aŠTMÁ□□□, f□□ÀŒ□The following example shows an Ethernet interface configured for Ethernet, plus an ATM interface 0-TMÁ□□□□hconfigured for AAL5 Subnetwork Access Protocol (SNAP) encapsulation. The □□ Í□connect□□ Ê□ □□ ß□command □□□Deallows local switching between these two interfaces and specifies the interworking type as IP mode.

□Š

```
(...UT2Dk□□□d)Router(config)# □□
```

```
□interface atm 0/0/0
□$
¼Di□□□d.Router(config-if)#□□□
```

```
□pvc 0/100 l2transport
□$□□□□d<Router(cfg-if-atm-l2trans-pvc)#□□
```

```
encapsulation aal5snap
Š
Š-d4Router(config)#
```

```
interface fastethernet 6/0/0.1
Sd4Router(config-subif)#
```



```
encapsulation dot1q 100
$ d
A^d^Router(config)#
```

```
□connect atm-eth-con atm 0/0/0 0/100 fastethernet 6/0/0.1 interworking ip
```

[illegible]

ÀTMÂš+eÁ°_μŎ>_ö†!ÀTMÂš+eÁ°_μŎ>°İ_†...

□†ªŠÄ□□□e_The following example shows how to define a map class named slow-vcs and apply it to DLCI 100:
□...□(...UTŠDm□□□e%interface serial 0.1 point-to-point
□...□¤Dk□□□e!□frame-relay interface-dlci 100
A...□□□□e□□□class slow-vcs

[illegible]

ÀÿÿÁ\$^ - Á° ï ÷ k Æ S & K ÀÿÿÁ\$^ -
Á° ï ï Æ V f 4 W < ~ †^{a a} Š™ Ä d-Parameter-map configuration
(config-profile)

2ffÂ}Í Â
TMTMÀR2÷□□□÷+□□%□Œ□□□□2ffÂ}Í Â
TMTMÀR2÷ÀTÿú□□□□□□E□□%(%-%If
□□□%(%*%, □%.%0%2%4□

ÀÿÿpÁ°Àeÿùëd(€*ÀÿÿpÁ°ÀeÿùÀeÿùEBf

_____To configure an FRF.8 one-to-one mapping between a Frame Relay data-link connection identifier 0'a@____m(DLCI) and an ATM permanent virtual circuit (PVC), use the _____connect_____ command in global configuration _____mode. To remove a connection, use the _____ command in _____ form of this command.

```
_____
^a$_____$Qconnect_____ Ê _____ Î_____connection-name FR-interface FR-DLCI ATM-
interface ATM-VPI/VCI _____
À@a!_____Dservice-interworking
_____! _____ÀVa¥_____$Tno connect_____ Ê _____ Î_____connection-name FR-interface FR-DLCI ATM-
interface ATM-VPI/VCI R
Àb^a_____Dservice-interworking
```

²ffÀñÿùÀRÌÍïëe()+²ffÀñÿùÀRÌÍïëïEBf%R%T%V%X%Z%\
%R%T%V%X%Z%\W%.†ªªŠÄ@lÀð

²ffÀó/□Â

^{TMTM}À□□÷□□□èf□□€(□*€□□□□²ffÀó/□Â

^{TMTM}À□□÷À□□÷□□□□□□F□□%R%□]€Bf□□□□%R%T%V%X%Z%\□□□

À^{TMTM}QÁ°ÀXİ

□□□ëm□□ÆXÆ□□ - □□□À□™™QÁ°□□ÀXi

ÀXİ

```

XXXXXXXXXXXXXXXXXZfXXXXXXXXX%a@†ªŠ™ÄXXXXd?The following example shows how to create an
FRF.8 connection:

```

```
%A\...UTšDm d' router(config)#
```

```
interface serial0
```

```
%B(Dk dErouter(config-if)#
```

```
□□frame-relay interface-dlci 100 switche□□      ì□d
```

```
%C)d)router(config-if)#
```

```
□□interface atm1/0
```

```
□%D□□□d!router(config-if)# □□
```

□□pvc 0/32

```
%E d@router(config-if-atm-vc)#
```

```
□□encapsulation aal5mux fr-atm-srv
```

```

F\Router(config)#

```

```
□□connect service-1 Serial0 100 ATM1/0 0/32 service-interworking
```

```
C%G(□□□d, router(config-frf8)# □□
```

```
efci-bit map-fecn
```

\$ÀÅï

ÀRÌÍïëñÆX,"\$ÀÂï

[illegible]

```
ÀÿŸÀÛŷûÁ°□□□i□□□đǎ□,) ,iž□□□ÀÿŸÀÛŷûÁ°□□□i□□i□□□□□□□□□□□□,1H□□□□W€□□†aaS™Ä□
□□`+This command has no arguments or keywords.
```

00Âd00Ã000000í0000000000H0HE00000000€}ÀûÿÿÀÛ/0ÁD000?ÿ000ä00
Š%EY01000ÀûÿÿÀÛ/0ÁD000?ÿ0?ÿ00<00
0,70W0:0†ªjª0000aCollects all WAAS metrics.
€}ÀûÿÿÀê00l0?ÿ000ä'0
Š%002000ÀûÿÿÀê00l0?ÿ0?ÿ00<00
0,80W0;
†ªjª0000a
connection
€}ÀûÿÿÀê00ÁD000?ÿ000ä"0
Š%0103000ÀûÿÿÀê00ÁD000?ÿ0?ÿ00<00
0,80W0<0†ªjª0000a Configures the WAAS connection.
€}ÀûÿÿÀÛ00l0?ÿ000ä•00Š%0204000ÀûÿÿÀÛ00l0?ÿ0?ÿ00<00
0,90W0=
†ªjª0000amode
€}ÀûÿÿÀÛ00ÁD000?ÿ000ä–00Š%0305000ÀûÿÿÀÛ00ÁD000?ÿ0?ÿ00<00
0,90W0>0†ªjª0000a(Configures the connection mode of WAAS.
€}ÀûÿÿÁ0i0l0?ÿ000ä™00Š%0406000ÀûÿÿÁ0i0l0?ÿ0?ÿ00<00
0,:0W0?
†ªjª0000abytes
€}ÀûÿÿÁ0i0ÁD000?ÿ000ä>00Š%0507000ÀûÿÿÁ0i0ÁD000?ÿ0?ÿ00<00
0,:0W0@0†ªjª0000a)Measures input and output bytes of WAAS.
€}ÀûÿÿÁ0/0l0?ÿ000ä000Š%0608000ÀûÿÿÁ0/0l0?ÿ0?ÿ00<00
0,;0W0A
†ªjª0000adre
€}ÀûÿÿÁ0/0ÁD000?ÿ000äŸ00Š%0709000ÀûÿÿÁ0/0ÁD000?ÿ0?ÿ00<00
0,;0W0B0†ªjª0000a9Measures WAAS Data Redundancy Elimination (DRE) metrics.
€}ÀûÿÿÁ'o0l0?ÿ000äi00Š%080:000ÀûÿÿÁ'o0l0?ÿ0?ÿ00<00
0,<0W0C
†ªjª0000alz
€}ÀûÿÿÁ'o0ÁD000?ÿ000ä£00Š%090;000ÀûÿÿÁ'o0ÁD000?ÿ0?ÿ00<00
0,<0W0D0†ªjª0000a3Measures WAAS Lempel-Ziv (LZ) compression metrics.
€}ÀûÿÿÁ6

l>?p□□□ä¥□□Š%□:□<□□□À□ÿÿÁ6[−]

l>?p□?ÿ□□<□□
□,=□W□E
†^aa%j^a□□□a□input
€}ÀûÿÿÁ6⁻

ÁD□□>?p□□□ä§□□Š%□;□=□□□ÀûÿÿÁ6[−]

ÁD□□>?p>?p□□<□□

□,=□□□F□†^aa%j^a□□□!Ameasures the number of WAAS input bytes□□
metrics, or LZ P•j©□□□A□compression metrics□□ β□.
€}À□ÿÿÁQĩ

β□, DRE

l>?pääŠ%<>ÀÿŸÁQİ

l>?p□?ÿ□□<□□
□,>□W□G
†^aa%j^a□□□`□output
€}ÀûÿÿÁQĩ

ÁD >?p ä«Š%=ÀûÿÿÁQĩ

ÁD>?p>?p<
 ,>H†ªjª BMeasures the number of WAAS output bytes ß, DRE
metrics, or LZ P•j©compression metrics ß.
€}ÀÿÿÁ<UŁ?ÿä³Š%ÀÿÿÁ<UŁ?ÿ?ÿ<D
 ,?WŒ†ªjª`Release
€}ÀÿÿÁ<UÁD?ÿäµŠ%?AÀÿÿÁ<UÁD?ÿ?ÿ<D
 ,?WŒ†ªjª`
Modification
€}ÀÿÿÁ|TŁ?ÿä.Š%@BÀÿÿÁ|TŁ?ÿ?ÿ<D
 ,@WŒ†ªjª` 15.1(4)M
€}ÀÿÿÁ|TÁD?ÿä¹Š%AÀÿÿÁ|TÁD?ÿ?ÿ<D
 ,@WŒ†ªjª`This command was introduced.
€}ÀÿÿÁ\Á6Ł?ÿäĚ
ŠKŒDÀÿÿÁ\Á6Ł?ÿ?ÿ<:

,Awat†a%ja Command
€}ÀüÿÿÁ\Á6ÁD?ÿäÍ
ŠKCEÀüÿÿÁ\Á6ÁD?ÿ?ÿ<:

□,A□w□b□†^a□j^a□□□a

Description

€}ÀÿÿÁl5l?ÿäÿ

ŠKDFÀÿÿÁl5l?ÿÿ<:

□,B□W□c:†^a%j^a□□□a□flow record type mace
€}ÀûÿÿÁl□5ÁD□□□?ÿ□□□äÑ□
ŠK□E□□□□ÀûÿÿÁl□5ÁD□□□?ÿ□?ÿ□□<:□

□,B□W□d□†^a%j^a□□□a#Configures a flow record for MACE.

€}À□ÿÿÀÛ/□l□?ÿ□□□i□□

€6□□`□□□À□ÿÿÀÛ/□l□?ÿ□?ÿ□□□p□

□,D□W□4

†^a%j^a□□□a

group-number

□\$QÂ

^{TMTM}Â□□□□□ið□□□/□□□□\$QÂ

^{TMTM}Â□□□□EQEV†8ET □□□□□□ŠììÀRìí□□□

`ÀTMTMQÁ°□□□ī□□□īÿ□□□/#8□J□□□ÀTMTMQÁ°□□□ī□□□ī□□□□□□□□□□□□Hf#□□□□W%r□†aŠMÄ□□□d%T`

this command is disabled by default.

\$ÄziÀRÍíïîâ/ïIE'\$ÄziÀRÍíïîâHf\$W%S†aaŠ™Ăd

2ffÁNMFÀRÌÍï÷lœS'L2ffÁNMFÀRÌÍïïœVf5^}%^}%WŒ
†aaŠÄ@lÀp

²ffÁ0|_Â

TMTMž|p÷mŒS K0²ffÁ0|_Â

TMTMžpžpY^}FŒVf6^}%

□[□□ î□dlci | pvc | pvp□□

□]□□ î□ type number circuit-id □□

□[□□ îdlci | pvc □
ÀM*¥□□□DQ| pvp□□

□]□□ **î**□ □□

□[□□ Ñ□interworking□□ ß□ □□ p□ip□□

□ | □□

p□ethernet□□

]
%X Àc*\$\$\$no
circuit-id
connect connection-name type number

□[□□ î□dlci | pvc | pvp□□

□]□□ î□ type number circuit-id □□

␣[␣␣ î␣dlci | ␣
Ào*£␣␣␣DUpvc | pvp␣␣

□]□□ **î**□ □□

[] ÍinterworkingÎ Æ Æ pÆipÆ

□ | □□

p□ethernet□□

]

%Y†UTÀ‡Œd7Syntax for Cisco IOS XE Release 2.5 and Later Releases

%Z †^{aa}À^a d:connect β Îconnection-name type number type number

Q%[À^{3a}Ÿd=no connect β Îconnection-name type number type number

²f fÁBÿôÀRÌÍïïëzÇ, MçI²f fÁBÿôÀRÌÍïïïEQf
fW%ρ%r%t%v%}Š Š Š fW%ρ%r%t%v%}Š Š Š W%p†+aš™Ä@lÀ

[illegible]

ÀÿÿÁ%ü]Á°™i÷oœS0QÀÿÿÁ%ü]Á°™i™iEVf8œ†aaŠ™Ä
`Use this command to set the threshold limit for the CPU device using WAAS
Express. WAAS Express P-™ÄDcaccelerates the WAAS optimized flow if the
router's CPU utilization exceeds the configured limit.

²f f Ā ç è ù À R İ Í i i p CS P R ²f f Ā ç è ù À R İ Í i i EVf9 WCE†^aŠ™Ä d

ÀÿÿÁ¿ëuÁ°|ï÷qESQSAÿÿÁ¿ëuÁ°|ï|ïEVf:EE†^aŠ™Ä
d:The following example shows how to set the CPU threshold:
E(...UTšDm9Router(config)#
parameter-map type waas waas_global
QE DkD.Router(config-profile)#
cpu-threshold 70

^²f fÂŰŠÀRİÍîï÷rCESRT^²f fÂŰŠÀRİÍîïïEVf;%%0Ş0Ş6Ŝ;Ŝ=ŚC
%0Ş0Ş6Ŝ;Ŝ=ŚCWĒ†ªā Š™ǻ@lÀÿ

²ffÂ £Â

™™™Àgù÷sŒSŒU²ffÂ £Â

™™™ÀgùÀgùZŒ%ŒŠŒVf<ŒŒ%ŒŒŒŒŒ;Š=ŠC

ÀÿÿÂm%æÁ° Æbvd÷tÆS TÀÿÿÂm%æÁ° Æbvd%ÿÿEVf= W†s†a†a
a d

€}ÀûÿÿÀÛ/ÁD?ÿî
€6GÀûÿÿÀÛ/ÁD?ÿ?ÿp
,Dwf†a%jªa;Interchassis Redundancy Manager (ICRM) group number. ß
€}ÀÿÿÁ[|^l?ÿî €6bÀÿÿÁ[|^l?ÿ?ÿv

□,E□W□l□†^a‰j^a□□□a□Release
€}ÀûÿÿÁ[|^ÁD□□□?ÿ□□□î"□□€6□a□c□□□ÀûÿÿÁ[|^ÁD□□□?ÿ□?ÿ□□□v□

□,E□W□m□†^a%j^a□□□a

Modification

€}À□ÿÿÁj¼]l□?ÿ□□□î\$□□€6□b□d□□□À□ÿÿÁj¼]l□?ÿ□?ÿ□□□v□

□, F□W□n□†^a□j^a□□□a

15.1(ß3)S
€}ÀûÿÿÁj¼]ÁD ?ÿ î& €6c ÀûÿÿÁj¼]ÁD ?ÿ ?ÿ v

,Fwot†ªjaIThis command w B as B introduced B on Cisco
7600 series routers.
€}ÀÿÿÂC l?ÿi2
€6ffÀÿÿÂC l?ÿÿ| ,Gwy†ªjaCommand
€}ÀÿÿÂC ÁD?ÿi4
€6egÀÿÿÂC ÁD?ÿÿ| ,Gwz†ªja

Description

€}ÀÿÿÂRIæL?ÿi6

€6f hÀÿÿÂRIæL?ÿ?ÿ| ,Hw{:†ªja multi-router aps

€}ÀÿÿÂRIæÁD?ÿi8

€6g iÀÿÿÂRIæÁD?ÿ?ÿ| ,Hw|†ªja Enables MR-APS.

€}ÀÿÿÂa>L?ÿi:€6h jÀÿÿÂa>L?ÿ?ÿ| ,Iw{:†ªja interchassis group

€}ÀÿÿÂa>ÁD?ÿi<€6i ÀÿÿÂa>ÁD?ÿ?ÿ| ,Iw~†ªja "Configures an interchassis group.

ÀÿÿpÁ°ÀMÿûîE€6€4oÀÿÿpÁ°ÀMÿûÀMÿû€[%Š†aa†aa
\\To enable Interchassis Stateful Switchover (IC-SSO) for Multilink PPP (MLPPP)
sessions with 0'a@iMultirouter Automatic Protection Switching (MR-APS), use
the Íaps interchassis group ß command in @icontroller
configuration mode. To disable this functionality, use the p no ß
form of this command.
Š 'a\$)aps interchassis group Îgroup-number
AŠ `no aps interchassis group

[illegible]

²ffÀÛ/□Â

TMTM□?ÿ□□□iG□□€6□□q□□□²ffÀÛ/□Â

TMTM□?ÿ□?ÿ□□□□□□d□□□G□`€['□□□□G□□□

$\frac{2}{\sqrt{\pi}} \int_0^x \frac{e^{-t^2}}{t} dt = -\gamma + \ln x + O(x^2)$

```
ÀÿÿÁoÁ°iî€qSÀÿÿÁoÁ°iî€()Wit†aŠ™Ä
`7The IC-SS0 for MLPPP sessions with MR-APS is disabled.
```

[illegible]

ÀÿÿÁθ^,Á°ïïïïïK€6sïuÀÿÿÁθ^,Á°ïïïïï€[+ïïïïïWk†^aŠ™Ä
ïï`-Controller configuration (config-controller)

[illegible]

2ffÁ[|^Â
TMTMžp|îM€6uw2ffÁ[|^Â
TMTMžpžpead€[-ac

[illegible]

The `aps interchassis group` command associates an Automatic Protection Switching (APS) group with 0-255 an ICRM group number to facilitate MR-APS across two routers, while maintaining stateful MLPPP sessions across the routers and avoiding session renegotiation in case of APS switchover. This command can only be used on routers that have SNET controllers configured on them.

The ICRM group number is configured on the router using the `aps interchassis group` command.

[illegible]

[illegible]

[illegible]

²ffÂC □Â

™™™ÀÆöc□□□îS□□€6□{□□□²ffÂC □Â

™™™ÀÆöc-¿ý□□□□□□f□□□e□j€[3□□□□e□g□i□□□□□

À°pÁ°ÀMÿûðÀ>€]ŽÀ°pÁ°ÀMÿûÀMÿû€^5T†aa†aa(kT
o Å>enable Address Resolution Protocol (ARP) entries for static routing over
the Switched Multimegabit 0'a@xData Service (SMDS) network, use the
following variation of the Å? Åarp command in global
configuration @Mmode. To disable this capability, use the
no form of this command.
U 'a\$`1arp ip-address smds-address Ñsmds Ê
CV`3no Í arp ip-address smds-address Ñsmds

2ffÁiÀRìíiðæ,) .Ž2ffÁiÀRìíi, 1IwE-†aš™Ä

[illegible]

\$ÀÛ/□Â

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^{TMTM}-ċý-ċý□□□□□□□□□□BI€^7□□□BEG□□□

[illegible]

[illegible]

À^{TMTM}Á\$ïÁ°ïđÆ>ŽŽ[illegible]

2ffÁ-þ-ÀRÌÍïïïïđèïï,)ŽŽ

□□²ffÁ-þ-ÀRÌÍí□ï□□ï□□□□□□□□□□,1K□□□□W€ □†aaŠ™Ä□□□`□

\$ÁŦ*ÀRÌÍïïïïïĎÈïï>ŽŽ

\$ANP AR110000UL-ZZ
\$ANP*ÀRÌÍîî€^:W`†<sup>aa</sup>S<sup>T</sup>MÄ`

ÀÿÿÁ-þ-Á°ïïïïđé,)ŽŽ

`ÀÿŸÁ-þ-Ā°ïï,1Lw€!†aŠ™Ä`L2TP class configuration`

ÀTMÁŃĐ*Á°TMïTMđÊ>Ž Ž
TMÀTMÁŃĐ*Á°TMïTMïTM€^;Wa†^{aa}ŠTMÄ`Global configuration

² ffÁWÍFÀRÌÍïïïïïđêïï,)Ž

0' 0002ffAWIFARIf i i 000000000000,1M000€_€c€e€g€i€_€c€e€g€iW€,†ªŠ™Ä@h000À
J

\$ÁxÍCÀRÌÍïïïïïðÌïï>Ž
Ž

□□\$ÁXÍCÀRÌíïï□□□□□□□□□□€^<□□JLNPJLNWj†ªŠ™Ä□@h□□ÀF

\$Áyü\Â
TMTMÀTýú□□□đÍ□□>Ž
Ž□□□\$Áyü\Â
TMTMÀTýúÀTýú□□□□□□ □□JS€^=□□□JLNP□□□

\$ÁëüVÀRÌÍïïïïïðÎï>Ž

Ž\$ÁëüVÀRÌÍïï€^>Wl†aŠ™Ä`

[illegible]

ÀTMÁëüVÁ°TMïTMöð>ŽŽÀTMÁëüVÁ°TMïTMïTM€^?m†aaŠTMÄ
cThis command requires a 12-digit (48-bit) dotted-format SMDS address. It does
not support 15-digit P-TMÄ@@SMDS addresses.
□□

[illegible]

ÀTMÁŃktÁ°æiñ1,wŽŽÀTMÁŃktÁ°æiæi,ld†^aŠÄ
`EThe following example removes automatically generated route targets:
W(...UTšDm`no auto-route-target

ÀTMÂ ëñÁ°²ï²đô>ŽŽÀTMÂ ëñÁ°²ï²ï²€^A€

The following example creates a static ARP entry that maps the IP address 172.20.173.28 to the SMD5 address C141.5797.1313 on interface serial 0:

```
interface serial 0
static ip address 172.20.173.28 C141.5797.1313
```

°Dj□□□`'□arp 172.20.173.28 C141.5797.1313 smds
□□

[illegible]

\$Âq >Â
TMTMÀE¿Ûð×>ŽŽ\$Âq >Â
TMTMÀE¿ÛÀE¿Û
TZ€^C TVY

\$\hat{A}\$

Z<ÀRÌÍïïïïñ3,wŽŽïïï\$Â

[illegible]

À^{TTTT}Â, É-Á°-6jđÛ>ŽÀ^{TTTT}Â, É-Á°-
6j%ÿÿ€^Dw€†aa†aa`

$$\hat{A} \square_{\hat{A}}^0 \hat{A}$$

TMTM ÀÀv\□□□ñ4□□, wŽ□□□□□\$Â□%□□Â

TMTM \AA v\1 ç ü □□□□□□□□□□, P, U, lf □□□□, P, R, T □□□□ H Â d □□ ã □□□□□□□□ H □□□□ Left □□ Â d □□ ã □□□□□□□□ 7 □□□□ Right □□ Â d □□ ã □□□□□□□□□□ Reference □□ Â d □□ ã □□□□□□□□□□

FirstOnlyOnlyAdÃl

Reference 3 $\hat{A} d \hat{A} k$

Reference 2_Äd_Ä_;;_Äd_Ä_

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<rdf:RDF xmlns:rdf='http://www.w3.org/1999/02/22-rdf-syntax-ns#'
xmlns:iX='http://ns.adobe.com/iX/1.0/'>
<rdf:Description about='' xmlns:pdf='http://ns.adobe.com/pdf/1.3/'
pdf:CreatorTool='FrameMaker 7.0'></rdf:Description>
<rdf:Description about='' xmlns:xap='http://ns.adobe.com/xap/1.0/'
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