



Business-to-Business TelePresence Configuration Profile Example

This section provides a complete example of a Business-to-Business TelePresence Configuration Profile in the following sections:

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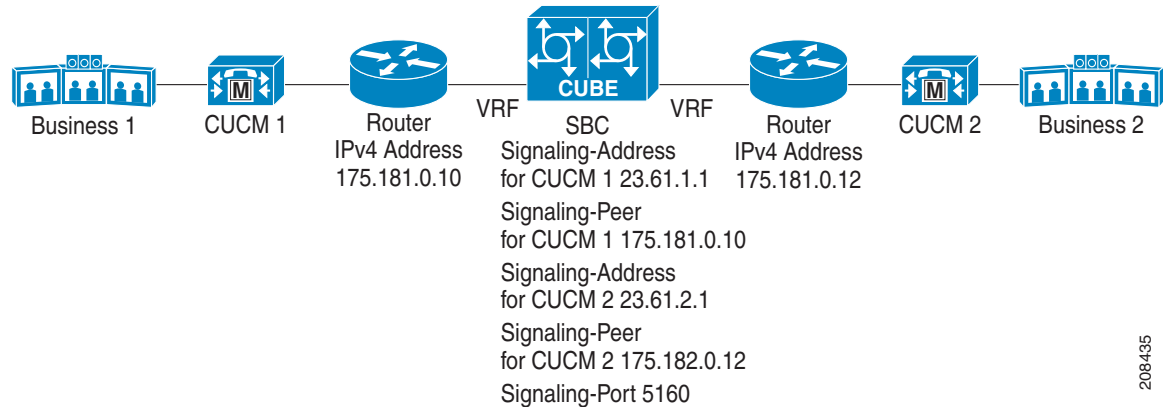
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Business-to-Business TelePresence Configuration Profile Adjacencies

In a TelePresence application, the Cisco Unified Border Element can be used to create secure media connections between the networks of two separate businesses. In the following examples, the TelePresence equipment is attached to the network via a CUCM. CUCM1 and CUCM2 are configured as SIP endpoints.

Figure 4 shows the network diagram for these examples:

Figure 4 Business-to-Business TelePresence



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Lua Script

If you are using Cisco TelePresence Release 1.8 or later, create and upload the `srtp.lua` script to the router. The function of this script is to convert SRTP in the inbound SDP to RTP and to convert RTP in the outbound SDP to SRTP. The contents of this script are as follows:

```
local avp="RTP/AVP"
local savp="RTP/SAVP"
local crypto="a=crypto:"
local xcrypto="a=xcrypto:"
local origRTP="a=origRTP"

function to_rtp_avp(msg)
  for m in msg.sdp.media_blocks:iter() do
    --check if SDP comes as SAVP
    local i,j = m.media_lines[1]:find(savp)
    if i then
      m.media_lines[1]:replace(savp,avp)
      for a in m:select_by_prefix(crypto):iter() do
        --MeLogger.info("replacing " .. crypto .. " line:" .. a.text .. "\n")
        a:replace(crypto,xcrypto)
      end
    else
      -- if not, mark it by adding an attribute
      m:insert_child_last(MeSdpLine.new(origRTP))
    end
  end
end

function to_rtp_savp(msg)
  for m in msg.sdp.media_blocks:iter() do
    local i,j = m.media_lines[1]:find(avp)
    if i then
      -- if media stream is RTP
```

```

-- this might be two cases
-- 1: sdp comes from wire as RTP. 2, sdp is changed by inbound editor to RTP

-- check inbound sdp rtp marker
local oRTP=m:select_by_prefix(origRTP)
if oRTP:empty() then
-- changed by inbound sdp editor as RTP
m.media_lines[1]:replace(avp,savp)
for a in msg.sdp:select_by_prefix(xcrypto):iter() do
--MeLogger.info("replacing " .. xcrypto .. " line:" .. a.text .. "\n")
a:replace(xcrypto,crypto)
end
else
-- RTP comes from wire
for l in oRTP:iter() do
l:delete()
end
end
end
end
end

MeEditor.register("after_send", "to_rtp_savp", to_rtp_savp)
MeEditor.register("before_receive", "to_rtp_avp", to_rtp_avp)

```

Configuring the Script Set

The following example shows how to configure the script set. Perform this procedure only if you are using Cisco TelePresence Release 1.8 or later.

```

script-set 2 lua
  script srtp
    filename bootflash:srtp.lua
    load-order 100
    type full
    complete

  active-script-set 2

```

Configuring the Header Editor

The following example shows how to configure the header editor. Perform this procedure only if you are using Cisco TelePresence Release 1.8 or later.

```

sip header-editor tp-to-supported
  blacklist
  header x-supported entry 1
    action replace-name value "supported"
    condition status-code eq "200"
  header x-supported entry 2
    action replace-name value "supported"
    condition status-code eq "200"
  header x-supported entry 3
    action replace-name value "supported"
    condition status-code eq "200"
sip header-editor tp-add-x-srtp-fb
  blacklist
  header srtp-fb entry 1
    action replace-name value "supported"
    condition status-code eq "200"
sip header-editor tp-to-x-supported
  blacklist
  header srtp-fb entry 1
    action add-first-header value "X-cisco-srtp-fallback"

```

```

    condition header-name supported header-value regex-match
"^. *X-cisco-srtp-fallback.*$"
    condition status-code eq "200"
header supported entry 1
    action replace-name value "x-supported"
    condition header-value not regex-match "^. *X-cisco-srtp-fallback.*$"
    condition status-code eq "200"
header supported entry 2
    action replace-name value "x-supported"
    condition header-value not regex-match "^. *X-cisco-srtp-fallback.*$"
    condition status-code eq "200"
header supported entry 3
    action replace-name value "x-supported"
    condition header-value not regex-match "^. *X-cisco-srtp-fallback.*$"
    condition status-code eq "200"

```

CUCM 1 Adjacency

The following example shows how to configure the CUCM adjacency for Business 1. Perform the configuration steps highlighted in bold font only if you are using Cisco TelePresence Release 1.8 or later.

```

adjacency sip CUCM1
vrf CUCM1
editor-type editor
header-profile inbound PASS-HEADERS
header-profile outbound PASS-HEADERS
method-profile inbound method1
method-profile outbound method1
option-profile ua inbound option1
option-profile ua outbound option1
preferred-transport tcp
security trusted-unencrypted
signaling-address ipv4 23.61.1.1
    statistics method summary
signaling-port 5160
remote-address ipv4 175.181.0.10 255.255.255.255
signaling-peer 175.181.0.10
signaling-peer-port 5160
header-editor outbound tp-add-x-srtp-fb
editor-list before-receive
    editor 1 to_rtp_avp
editor-list after-send
    editor 1 to_rtp_savp
account CUCM1
attach

```

CUCM 2 Adjacency

The following example shows how to configure the CUCM adjacency for Business 2:

```

adjacency sip CUCM2
vrf CUCM2
editor-type editor

```

```
header-profile inbound PASS-HEADERS
header-profile outbound PASS-HEADERS
method-profile inbound method1
method-profile outbound method1
option-profile ua inbound option1
option-profile ua outbound option1
preferred-transport tcp
security trusted-unencrypted
signaling-address ipv4 23.61.2.1
statistics method summary
signaling-port 5160
remote-address ipv4 175.182.0.12 255.255.255.255
signaling-peer 175.182.0.12
signaling-peer-port 5160
header-editor inbound tp-to-supported
  editor-list before-receive
    editor 1 to_rtp_avp
    editor 2 tp-to-x-supported
  editor-list after-send
    editor 1 to_rtp_savp
account CUCM2
attach
```

Business-to-Business TelePresence Configuration Profile (in Segments)

This TelePresence Configuration Profile example shows each segment of the example separated by a Heading describing the function of that segment.

Configuration Mode

```
configure terminal
```

SBC SBE Configuration Setup

```
sbc MY_SBC
  sbe
```

Media Characteristics (Security)

```
secure-media
...
...
```

White List, Pass Headers

```
sip header-profile PASS-HEADERS
  description pass non-essential headers
  header Allow entry 1
  action pass
  header Min-SE entry 1
  action pass
  header Reason entry 1
  action pass
  header SERVER entry 1
  action pass
  header DIVERSION entry 1
  action pass
  header Allow-Events entry 1
  action pass
  header Remote-Party-ID entry 1
  action pass
  header Session-Expires entry 1
  action pass
  header session-expiry entry 1
  action pass
  header RESOURCE-PRIORITY entry 1
  action pass
```

White List, Methods and Options

```
sip method-profile method1
  description pass default methods
  pass-body
  method INFO
  action as-profile
  method OPTION
  action pass
  method UPDATE
  action pass
  sip option-profile option1
  description pass default options plus timer
  option TIMER
  option REPLACES
```

Script Set Configuration

If you are using Cisco TelePresence Release 1.8 or later, perform this procedure.

```
script-set 2 lua
  script srtp
    filename bootflash:srtp.lua
    load-order 100
    type full
  complete
```

```
active-script-set 2
```

Header Editor

If you are using Cisco TelePresence Release 1.8 or later, perform this procedure.

```
sip header-editor tp-to-supported
  blacklist
  header x-supported entry 1
    action replace-name value "supported"
    condition status-code eq "200"
  header x-supported entry 2
    action replace-name value "supported"
    condition status-code eq "200"
  header x-supported entry 3
    action replace-name value "supported"
    condition status-code eq "200"
sip header-editor tp-add-x-srtp-fb
  blacklist
  header srtp-fb entry 1
    action replace-name value "supported"
    condition status-code eq "200"
sip header-editor tp-to-x-supported
  blacklist
  header srtp-fb entry 1
    action add-first-header value "X-cisco-srtp-fallback"
    condition header-name supported header-value regex-match
    "^. *X-cisco-srtp-fallback.*$"
    condition status-code eq "200"
  header supported entry 1
    action replace-name value "x-supported"
    condition header-value not regex-match "^. *X-cisco-srtp-fallback.*$"
    condition status-code eq "200"
  header supported entry 2
    action replace-name value "x-supported"
    condition header-value not regex-match "^. *X-cisco-srtp-fallback.*$"
    condition status-code eq "200"
  header supported entry 3
    action replace-name value "x-supported"
    condition header-value not regex-match "^. *X-cisco-srtp-fallback.*$"
    condition status-code eq "200"
```

CUCM Adjacency 1

If you are using Cisco TelePresence Release 1.8 or later, you must also perform the steps highlighted in bold. If you are using an earlier release of Cisco TelePresence, skip the steps highlighted in bold.

```
adjacency sip CUCM1
  vrf CUCM1
  editor-type editor
  header-profile inbound PASS-HEADERS
  header-profile outbound PASS-HEADERS
  method-profile inbound method1
```

```

method-profile outbound method1
option-profile ua inbound option1
option-profile ua outbound option1
preferred-transport tcp
security trusted-unencrypted
signaling-address ipv4 23.61.1.1
statistics method summary
signaling-port 5160
remote-address ipv4 175.181.0.10 255.255.255.255
signaling-peer 175.181.0.10
signaling-peer-port 5160
header-editor outbound tp-add-x-srtp-fb
  editor-list before-receive
    editor 1 to_rtp_avp
  editor-list after-send
    editor 1 to_rtp_savp
account CUCM1
attach

```

CUCM Adjacency 2

If you are using Cisco TelePresence Release 1.8 or later, you must also perform the steps highlighted in bold. If you are using an earlier release of Cisco TelePresence, skip the steps highlighted in bold.

```

adjacency sip CUCM2
  vrf CUCM2
    editor-type editor
    header-profile inbound PASS-HEADERS
    header-profile outbound PASS-HEADERS
    method-profile inbound method1
    method-profile outbound method1
    option-profile ua inbound option1
    option-profile ua outbound option1
    preferred-transport tcp
    security trusted-unencrypted
    signaling-address ipv4 23.61.2.1
    statistics method summary
    signaling-port 5160
    remote-address ipv4 175.182.0.12 255.255.255.255
    signaling-peer 175.182.0.12
    signaling-peer-port 5160
    header-editor inbound tp-to-supported
      editor-list before-receive
        editor 1 to_rtp_avp
        editor 2 tp-to-x-supported
      editor-list after-send
        editor 1 to_rtp_savp
    account CUCM2
  attach

```

Call Policy, CUCM Connection

```

call-policy-set 1
  first-call-routing-table start-table
  rtg-src-adjacency-table start-table
  entry 1
    match-adjacency CUCM2
    dst-adjacency CUCM1
    action complete
  entry 2
    match-adjacency CUCM1
    dst-adjacency CUCM2

```



```

        action complete
    complete
active-call-policy-set 1

```

Call Policy, Number Analysis Stage - Number Validation

```

call-policy-set 2
    first-number-analysis-table VALIDATE-DEST-PREFIX
    na-dst-prefix-table VALIDATE-DEST-PREFIX
    entry 1
        match-prefix 8XX
        action accept
        exit
    entry 2
        match-prefix 911
        action accept
        exit
    entry 3
        match-prefix 1XX
        action accept
        exit
    entry 4
        match-prefix X
        action reject
        exit
    complete
active-call-policy-set 2

```

Call Policy, Number Analysis Stage - Number Categorization

```

call-policy-set 3
    first-number-analysis-table VALIDATE-DEST-PREFIX
    na-dst-prefix-table VALIDATE-DEST-PREFIX
    entry 1
        match-prefix 8X
        category Non-emergency
        action accept
        exit
    entry 2
        match-prefix 1XX
        category Non-Emergency
        action accept
        exit
    entry 3
        match-prefix 911
        category Emergency
        action accept
        exit
    entry 4
        match-prefix X
        action reject
        exit
    complete
active-call-policy-set 3

```

Call Policy, Number Analysis Stage - Digit Manipulation

```

call-policy-set 4
    first-number-analysis-table VALIDATE-DEST-PREFIX
    na-dst-prefix-table VALIDATE-DEST-PREFIX
    entry 1
        match-prefix 8X
        category Non-emergency

```

```

        edit-dst del-prefix 1
        action accept
        exit
    entry 2
        match-prefix 1XX
        category Non-Emergency
        action accept
        exit
    entry 3
        match-prefix 911
        category Emergency
        action accept
        exit
        entry 4
        match-prefix X
        action reject
        exit
    complete
active-call-policy-set 4

```

Call Policy, Routing Stage - Destination Adjacency

```

call-policy-set 5
    first-call-routing-table ROUTE-ON-DEST-NUM
    rtg-dst-address-table ROUTE-ON-DEST-NUM
    entry 1
        match-address 212
        prefix
        edit add-prefix 1
        dst-adjacency CUCM1
        action complete
        exit
    entry 2
        match-address 215
        prefix
        dst-adjacency CUCM1
        action complete
        entry 3
            match-address 732
            prefix
            dst-adjacency CUCM2
            action complete
            exit
    entry 4
        match-address 908
        prefix
        dst-adjacency CUCM2
        edit replace 609
        action complete
        complete
        exit
active-call-policy-set 5

```

Call Admission Control, CAC Policy Media Bandwidth Field Ignore

```

cac-policy-set 1
    description Ignore the bandwidth field in SDP
    first-cac-table BW
    first-cac-scope call
    cac-table BW
    table-type policy-set
    entry 1
        media bandwidth-field ignore
        action cac-complete

```

```
complete
active-cac-policy-set 1
```

Show Command, Display Adjacencies

```
Router# show sbc MY_SBC sbe adjacencies
```

```
SBC Service "MY_SBC"
  Name                               Type   State   Description
  -----
  CUCM1                              SIP    Attached
  CUCM2                              SIP    Attached
TPX-SBC#
```

Business-to-Business TelePresence Configuration Profile (for Copy and Paste)

This is a complete TelePresence Configuration Profile example that can be copied and pasted into the CLI of an ASR1000 running the Cisco Unified Border Element. Each segment is separated only by returns.



Note

If you are using Cisco TelePresence Release 1.8 or later, you must also perform the steps highlighted in bold. If you are using an earlier release of Cisco TelePresence, skip the steps highlighted in bold.

```
configure terminal

sbc MY_SBC
sbe
secure-media

sip header-profile PASS-HEADERS
description pass non-essential headers
header Allow entry 1
action pass
header Min-SE entry 1
action pass
header Reason entry 1
action pass
header SERVER entry 1
action pass
header DIVERSION entry 1
action pass
header Allow-Events entry 1
action pass
header Remote-Party-ID entry 1
action pass
header Session-Expires entry 1
action pass
header session-expiry entry 1
action pass
header RESOURCE-PRIORITY entry 1
action pass

sip method-profile method1
description pass default methods
pass-body
```

```

method INFO
action as-profile
method OPTION
action pass
method UPDATE
action pass
sip option-profile option1
description pass default options plus timer
option TIMER
option REPLACES

script-set 2 lua
script srtp
filename bootflash:srtp.lua
load-order 100
type full
complete

active-script-set 2

sip header-editor tp-to-supported
blacklist
header x-supported entry 1
action replace-name value "supported"
condition status-code eq "200"
header x-supported entry 2
action replace-name value "supported"
condition status-code eq "200"
header x-supported entry 3
action replace-name value "supported"
condition status-code eq "200"
sip header-editor tp-add-x-srtp-fb
blacklist
header srtp-fb entry 1
action replace-name value "supported"
condition status-code eq "200"
sip header-editor tp-to-x-supported
blacklist
header srtp-fb entry 1
action add-first-header value "X-cisco-srtp-fallback"
condition header-name supported header-value regex-match "^.X-cisco-srtp-fallback.*$"
condition status-code eq "200"
header supported entry 1
action replace-name value "x-supported"
condition header-value not regex-match "^.X-cisco-srtp-fallback.*$"
condition status-code eq "200"
header supported entry 2
action replace-name value "x-supported"
condition header-value not regex-match "^.X-cisco-srtp-fallback.*$"
condition status-code eq "200"
header supported entry 3
action replace-name value "x-supported"
condition header-value not regex-match "^.X-cisco-srtp-fallback.*$"
condition status-code eq "200"

adjacency sip CUCM1
vrf CUCM1
editor-type editor
header-profile inbound PASS-HEADERS
header-profile outbound PASS-HEADERS
method-profile inbound method1
method-profile outbound method1
option-profile ua inbound option1
option-profile ua outbound option1

```

```

preferred-transport tcp
security trusted-unencrypted
signaling-address ipv4 23.61.1.1
statistics method summary
signaling-port 5160
remote-address ipv4 175.181.0.10 255.255.255.255
signaling-peer 175.181.0.10
signaling-peer-port 5160
header-editor outbound tp-add-x-srtp-fb
editor-list before-receive
editor 1 to_rtp_avp
editor-list after-send
editor 1 to_rtp_savp
account CUCM1
attach

adjacency sip CUCM2
vrf CUCM2
editor-type editor
header-profile inbound PASS-HEADERS
header-profile outbound PASS-HEADERS
method-profile inbound method1
method-profile outbound method1
option-profile ua inbound option1
option-profile ua outbound option1
preferred-transport tcp
security trusted-unencrypted
signaling-address ipv4 23.61.2.1
statistics method summary
signaling-port 5160
remote-address ipv4 175.182.0.12 255.255.255.255
signaling-peer 175.182.0.12
signaling-peer-port 5160
header-editor inbound tp-to-supported
editor-list before-receive
editor 1 to_rtp_avp
editor 2 tp-to-x-supported
editor-list after-send
editor 1 to_rtp_savp
account CUCM2
attach

call-policy-set 1
first-call-routing-table start-table
rtg-src-adjacency-table start-table
entry 1
match-adjacency CUCM2
dst-adjacency CUCM1
action complete
entry 2
match-adjacency CUCM1
dst-adjacency CUCM2
action complete
complete
active-call-policy-set 1

call-policy-set 2
first-number-analysis-table VALIDATE-DEST-PREFIX
na-dst-prefix-table VALIDATE-DEST-PREFIX
entry 1

```

```
match-prefix 8XX
action accept
exit
entry 2
match-prefix 911
action accept
exit
entry 3
match-prefix 1XX
action accept
exit
entry 4
match-prefix X
action reject
exit
complete
active-call-policy-set 2
```

```
call-policy-set 3
first-number-analysis-table VALIDATE-DEST-PREFIX
na-dst-prefix-table VALIDATE-DEST-PREFIX
entry 1
match-prefix 8X
category Non-emergency
action accept
exit
entry 2
match-prefix 1XX
category Non-Emergency
action accept
exit
entry 3
match-prefix 911
category Emergency
action accept
exit
entry 4
match-prefix X
action reject
exit
complete
active-call-policy-set 3
```

```
call-policy-set 4
first-number-analysis-table VALIDATE-DEST-PREFIX
na-dst-prefix-table VALIDATE-DEST-PREFIX
entry 1
match-prefix 8X
category Non-emergency
edit-dst del-prefix 1
action accept
exit
entry 2
match-prefix 1XX
category Non-Emergency
action accept
exit
entry 3
match-prefix 911
category Emergency
```

```
action accept
exit
entry 4
match-prefix X
action reject
exit
complete
active-call-policy-set 4
```

```
call-policy-set 5
first-call-routing-table ROUTE-ON-DEST-NUM
rtg-dst-address-table ROUTE-ON-DEST-NUM
entry 1
match-address 212
prefix
edit add-prefix 1
dst-adjacency CUCM1
action complete
exit
entry 2
match-address 215
prefix
dst-adjacency CUCM1
action complete
entry 3
match-address 732
prefix
dst-adjacency CUCM2
action complete
exit
entry 4
match-address 908
prefix
dst-adjacency CUCM2
edit replace 609
action complete
complete
exit
active-call-policy-set 5
```

```
cac-policy-set 1
description Ignore the bandwidth field in SDP
first-cac-table BW
first-cac-scope call
cac-table BW
table-type policy-set
entry 1
media bandwidth-field ignore
action cac-complete
complete
active-cac-policy-set 1
```

Business-to-Business TelePresence Configuration Profile (with CLI Prompts)

This complete TelePresence Configuration Profile example shows the CLI prompts.



Note

If you are using Cisco TelePresence Release 1.8 or later, you must also perform the steps highlighted in bold. If you are using an earlier release of Cisco TelePresence, skip the steps highlighted in bold.

```

Router# configure terminal
Router(config)# sbc MY_SBC
Router(config-sbc)# sbe
Router(config-sbc-sbe)# secure-media
Router(config-sbc-sbe)#
Router(config-sbc-sbe)#
Router(config-sbc-sbe)# sip header-profile PASS-HEADERS
Router(config-sbc-sbe-sip-hdr)# description pass non-essential headers
Router(config-sbc-sbe-sip-hdr)# header Allow entry 1
Router(config-sbc-sbe-sip-hdr-ele)# action pass
Router(config-sbc-sbe-sip-hdr-ele-act)# header Min-SE entry 1
Router(config-sbc-sbe-sip-hdr-ele)# action pass
Router(config-sbc-sbe-sip-hdr-ele-act)# header Reason entry 1
Router(config-sbc-sbe-sip-hdr-ele)# action pass
Router(config-sbc-sbe-sip-hdr-ele-act)# header SERVER entry 1
Router(config-sbc-sbe-sip-hdr-ele)# action pass
Router(config-sbc-sbe-sip-hdr-ele-act)# header DIVERSION entry 1
Router(config-sbc-sbe-sip-hdr-ele)# action pass
Router(config-sbc-sbe-sip-hdr-ele-act)# header Allow-Events entry 1
Router(config-sbc-sbe-sip-hdr-ele)# action pass
Router(config-sbc-sbe-sip-hdr-ele-act)# header Remote-Party-ID entry 1
Router(config-sbc-sbe-sip-hdr-ele)# action pass
Router(config-sbc-sbe-sip-hdr-ele-act)# header Session-Expires entry 1
Router(config-sbc-sbe-sip-hdr-ele)# action pass
Router(config-sbc-sbe-sip-hdr-ele-act)# header session-expiry entry 1
Router(config-sbc-sbe-sip-hdr-ele)# action pass
Router(config-sbc-sbe-sip-hdr-ele-act)# $URCE-PRIORITY entry 1
Router(config-sbc-sbe-sip-hdr-ele)# action pass
Router(config-sbc-sbe-sip-hdr-ele-act)#
Router(config-sbc-sbe-sip-hdr-ele-act)#
Router(config-sbc-sbe-sip-hdr-ele-act)#
Router(config-sbc-sbe-sip-hdr-ele-act)# sip method-profile method1
Router(config-sbc-sbe-sip-mth)# description pass default methods
Router(config-sbc-sbe-sip-mth)# pass-body
Router(config-sbc-sbe-sip-mth)# method INFO
Router(config-sbc-sbe-sip-mth-ele)# action as-profile
Router(config-sbc-sbe-sip-mth-ele)# method OPTION
Router(config-sbc-sbe-sip-mth-ele)# action pass
Router(config-sbc-sbe-sip-mth-ele)# method UPDATE
Router(config-sbc-sbe-sip-mth-ele)# action pass
Router(config-sbc-sbe-sip-mth-ele)# sip option-profile option1
Router(config-sbc-sbe-sip-opt)# $ pass default options plus timer
Router(config-sbc-sbe-sip-opt)# option TIMER
Router(config-sbc-sbe-sip-opt)# option REPLACES
Router(config-sbc-sbe-sip-opt)#
Router(config-sbc-sbe)# script-set 2 lua
Router(config-sbc-sbe-script-set)# script srtp
Router(config-sbc-sbe-scrpset-script)# filename bootflash:srtp.lua
Router(config-sbc-sbe-scrpset-script)# load-order 100
Router(config-sbc-sbe-scrpset-script)# type full
Router(config-sbc-sbe-script-set)# complete
Router(config-sbc-sbe)# active-script-set 2
Router(config-sbc-sbe)# sip header-editor tp-to-supported

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Router(config-sbc-sbe)# blacklist
Router(config-sbc-sbe-sip-hdr)# header x-supported entry 1
Router(config-sbc-sbe-mep-hdr-ele)# action replace-name value "supported"
Router(config-sbc-sbe-sip-hdr-ele-act)# condition status-code eq "200"
Router(config-sbc-sbe-sip-hdr)# header x-supported entry 2
Router(config-sbc-sbe-mep-hdr-ele)# action replace-name value "supported"
Router(config-sbc-sbe-sip-hdr-ele-act)# condition status-code eq "200"
Router(config-sbc-sbe-sip-hdr)# header x-supported entry 3
Router(config-sbc-sbe-mep-hdr-ele)# action replace-name value "supported"
Router(config-sbc-sbe-sip-hdr-ele-act)# condition status-code eq "200"
Router(config-sbc-sbe)# sip header-editor tp-add-x-srtp-fb
Router(config-sbc-sbe)# blacklist
Router(config-sbc-sbe-sip-hdr)# header srtp-fb entry 1
Router(config-sbc-sbe-mep-hdr-ele)# action replace-name value "supported"
Router(config-sbc-sbe-sip-hdr-ele-act)# condition status-code eq "200"
Router(config-sbc-sbe)# sip header-editor tp-to-x-supported
blacklist
Router(config-sbc-sbe-sip-hdr)# header srtp-fb entry 1
action add-first-header value "X-cisco-srtp-fallback"
Router(config-sbc-sbe-sip-hdr-ele-act)# condition header-name supported header-value
regex-match "^.*X-cisco-srtp-fallback.*$"
condition status-code eq "200"
Router(config-sbc-sbe-sip-hdr)# header supported entry 1
Router(config-sbc-sbe-mep-hdr-ele)# action replace-name value "x-supported"
Router(config-sbc-sbe-sip-hdr-ele-act)# condition header-value not regex-match
"^.*X-cisco-srtp-fallback.*$"
Router(config-sbc-sbe-sip-hdr-ele-act)# condition status-code eq "200"
Router(config-sbc-sbe-sip-hdr)# header supported entry 2
Router(config-sbc-sbe-mep-hdr-ele)# action replace-name value "x-supported"
Router(config-sbc-sbe-sip-hdr-ele-act)# condition header-value not regex-match
"^.*X-cisco-srtp-fallback.*$"
Router(config-sbc-sbe-sip-hdr-ele-act)# condition status-code eq "200"
Router(config-sbc-sbe-sip-hdr)# header supported entry 3
Router(config-sbc-sbe-mep-hdr-ele)# action replace-name value "x-supported"
Router(config-sbc-sbe-sip-hdr-ele-act)# condition header-value not regex-match
"^.*X-cisco-srtp-fallback.*$"
Router(config-sbc-sbe-sip-hdr-ele-act)# condition status-code eq "200"
Router(config-sbc-sbe-sip-opt)#
Router(config-sbc-sbe-sip-opt)#
Router(config-sbc-sbe-sip-opt)# adjacency sip CUCM1
Router(config-sbc-sbe-adj-sip)# vrf CUCM1
Router(config-sbc-sbe-sip)# editor-type editor
Router(config-sbc-sbe-adj-sip)# header-profile inbound PASS-HEADERS
Router(config-sbc-sbe-adj-sip)# header-profile outbound PASS-HEADERS
Router(config-sbc-sbe-adj-sip)# method-profile inbound method1
Router(config-sbc-sbe-adj-sip)# method-profile outbound method1
Router(config-sbc-sbe-adj-sip)# option-profile ua inbound option1
Router(config-sbc-sbe-adj-sip)# option-profile ua outbound option1
Router(config-sbc-sbe-adj-sip)# preferred-transport tcp
Router(config-sbc-sbe-adj-sip)# security trusted-unencrypted
Router(config-sbc-sbe-adj-sip)# signaling-address ipv4 23.61.1.1
Router(config-sbc-sbe-adj-sip)# statistics method summary
Router(config-sbc-sbe-adj-sip)# signaling-port 5160
Router(config-sbc-sbe-adj-sip)# $ess ipv4 175.181.0.10 255.255.255.255
Router(config-sbc-sbe-adj-sip)# signaling-peer 175.181.0.10
Router(config-sbc-sbe-adj-sip)# signaling-peer-port 5160
Router(config-sbc-sbe-adj-sip)# header-editor outbound tp-add-x-srtp-fb
Router(config-sbc-sbe-adj-sip)# editor-list before-receive
Router(config-sbc-sbe-adj-sip-ed)# editor 1 to_rtp_avp
Router(config-sbc-sbe-adj-sip-ed)# editor-list after-send
Router(config-sbc-sbe-adj-sip-ed)# editor 1 to_rtp_savp
Router(config-sbc-sbe-adj-sip)# account CUCM1
Router(config-sbc-sbe-adj-sip)# attach
Router(config-sbc-sbe-adj-sip)#

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Router(config-sbc-sbe-adj-sip)#
Router(config-sbc-sbe-adj-sip)#
Router(config-sbc-sbe-adj-sip)# adjacency sip CUCM2
Router(config-sbc-sbe-adj-sip)# vrf CUCM2
Router(config-sbc-sbe-sip)# editor-type editor
Router(config-sbc-sbe-adj-sip)# header-profile inbound PASS-HEADERS
Router(config-sbc-sbe-adj-sip)# header-profile outbound PASS-HEADERS
Router(config-sbc-sbe-adj-sip)# method-profile inbound method1
Router(config-sbc-sbe-adj-sip)# method-profile outbound method1
Router(config-sbc-sbe-adj-sip)# option-profile ua inbound option1
Router(config-sbc-sbe-adj-sip)# option-profile ua outbound option1
Router(config-sbc-sbe-adj-sip)# preferred-transport tcp
Router(config-sbc-sbe-adj-sip)# security trusted-unencrypted
Router(config-sbc-sbe-adj-sip)# signaling-address ipv4 23.61.2.1
Router(config-sbc-sbe-adj-sip)# statistics method summary
Router(config-sbc-sbe-adj-sip)# signaling-port 5160
Router(config-sbc-sbe-adj-sip)# $sess ipv4 175.182.0.12 255.255.255.255
Router(config-sbc-sbe-adj-sip)# signaling-peer 175.182.0.12
Router(config-sbc-sbe-adj-sip)# signaling-peer-port 5160
Router(config-sbc-sbe-adj-sip)# header-editor inbound tp-to-supported
Router(config-sbc-sbe-adj-sip)# editor-list before-receive
Router(config-sbc-sbe-adj-sip-ed)# editor 1 to_rtp_avp
Router(config-sbc-sbe-adj-sip-ed)# editor 2 tp-to-x-supported
Router(config-sbc-sbe-adj-sip)# editor-list after-send
Router(config-sbc-sbe-adj-sip-ed)# editor 1 to_rtp_savp
Router(config-sbc-sbe-adj-sip)# account CUCM2
Router(config-sbc-sbe-adj-sip)# attach
Router(config-sbc-sbe-adj-sip)#
Router(config-sbc-sbe-adj-sip)#
Router(config-sbc-sbe-adj-sip)#
Router(config-sbc-sbe-adj-sip)# call-policy-set 1
Router(config-sbc-sbe-rtgpolicy)# first-call-routing-table start-table
Router(config-sbc-sbe-rtgpolicy)# rtg-src-adjacency-table start-table
Router(config-sbc-sbe-rtgpolicy-rtgtable)# entry 1
Router(config-sbc-sbe-rtgpolicy-rtgtable-entry)# match-adjacency CUCM2
Router(config-sbc-sbe-rtgpolicy-rtgtable-entry)# dst-adjacency CUCM1
Router(config-sbc-sbe-rtgpolicy-rtgtable-entry)# action complete
Router(config-sbc-sbe-rtgpolicy-rtgtable-entry)# entry 2
Router(config-sbc-sbe-rtgpolicy-rtgtable-entry)# match-adjacency CUCM1
Router(config-sbc-sbe-rtgpolicy-rtgtable-entry)# dst-adjacency CUCM2
Router(config-sbc-sbe-rtgpolicy-rtgtable-entry)# action complete
Router(config-sbc-sbe-rtgpolicy-rtgtable-entry)# complete
Router(config-sbc-sbe-rtgpolicy)# active-call-policy-set 1
Router(config-sbc-sbe)#
Router(config-sbc-sbe)#
Router(config-sbc-sbe)#
Router(config-sbc-sbe)# call-policy-set 2
Router(config-sbc-sbe-rtgpolicy)# $-table VALIDATE-DEST-PREFIX
Router(config-sbc-sbe-rtgpolicy)# $ix-table VALIDATE-DEST-PREFIX
Router(config-sbc-sbe-rtgpolicy-natable)# entry 1
Router(config-sbc-sbe-rtgpolicy-natable-entry)# match-prefix 8XX
Router(config-sbc-sbe-rtgpolicy-natable-entry)# action accept
Router(config-sbc-sbe-rtgpolicy-natable-entry)# exit
Router(config-sbc-sbe-rtgpolicy-natable)# entry 2
Router(config-sbc-sbe-rtgpolicy-natable-entry)# match-prefix 911
Router(config-sbc-sbe-rtgpolicy-natable-entry)# action accept
Router(config-sbc-sbe-rtgpolicy-natable-entry)# exit
Router(config-sbc-sbe-rtgpolicy-natable)# entry 3
Router(config-sbc-sbe-rtgpolicy-natable-entry)# match-prefix 1XX
Router(config-sbc-sbe-rtgpolicy-natable-entry)# action accept
Router(config-sbc-sbe-rtgpolicy-natable-entry)# exit
Router(config-sbc-sbe-rtgpolicy-natable)# entry 4
Router(config-sbc-sbe-rtgpolicy-natable-entry)# match-prefix X
Router(config-sbc-sbe-rtgpolicy-natable-entry)# action reject

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Router(config-sbc-sbe-rtgpolicy-natable-entry)# exit
Router(config-sbc-sbe-rtgpolicy-natable)# complete
Router(config-sbc-sbe-rtgpolicy)# active-call-policy-set 2
Router(config-sbc-sbe)#
Router(config-sbc-sbe)#
Router(config-sbc-sbe)#
Router(config-sbc-sbe)# call-policy-set 3
Router(config-sbc-sbe-rtgpolicy)# $-table VALIDATE-DEST-PREFIX
Router(config-sbc-sbe-rtgpolicy)# $ix-table VALIDATE-DEST-PREFIX
Router(config-sbc-sbe-rtgpolicy-natable)# entry 1
Router(config-sbc-sbe-rtgpolicy-natable-entry)# match-prefix 8X
Router(config-sbc-sbe-rtgpolicy-natable-entry)# category Non-emergency
Router(config-sbc-sbe-rtgpolicy-natable-entry)# action accept
Router(config-sbc-sbe-rtgpolicy-natable-entry)# exit
Router(config-sbc-sbe-rtgpolicy-natable)# entry 2
Router(config-sbc-sbe-rtgpolicy-natable-entry)# match-prefix 1XX
Router(config-sbc-sbe-rtgpolicy-natable-entry)# category Non-Emergency
Router(config-sbc-sbe-rtgpolicy-natable-entry)# action accept
Router(config-sbc-sbe-rtgpolicy-natable-entry)# exit
Router(config-sbc-sbe-rtgpolicy-natable)# entry 3
Router(config-sbc-sbe-rtgpolicy-natable-entry)# match-prefix 911
Router(config-sbc-sbe-rtgpolicy-natable-entry)# category Emergency
Router(config-sbc-sbe-rtgpolicy-natable-entry)# action accept
Router(config-sbc-sbe-rtgpolicy-natable-entry)# exit
Router(config-sbc-sbe-rtgpolicy-natable)# entry 4
Router(config-sbc-sbe-rtgpolicy-natable-entry)# match-prefix X
Router(config-sbc-sbe-rtgpolicy-natable-entry)# action reject
Router(config-sbc-sbe-rtgpolicy-natable-entry)# exit
Router(config-sbc-sbe-rtgpolicy-natable)# complete
Router(config-sbc-sbe-rtgpolicy)# active-call-policy-set 3
Router(config-sbc-sbe)#
Router(config-sbc-sbe)#
Router(config-sbc-sbe)#
Router(config-sbc-sbe)# call-policy-set 4
Router(config-sbc-sbe-rtgpolicy)# $-table VALIDATE-DEST-PREFIX
Router(config-sbc-sbe-rtgpolicy)# $ix-table VALIDATE-DEST-PREFIX
Router(config-sbc-sbe-rtgpolicy-natable)# entry 1
Router(config-sbc-sbe-rtgpolicy-natable-entry)# match-prefix 8X
Router(config-sbc-sbe-rtgpolicy-natable-entry)# category Non-emergency
Router(config-sbc-sbe-rtgpolicy-natable-entry)# edit-dst del-prefix 1
Router(config-sbc-sbe-rtgpolicy-natable-entry)# action accept
Router(config-sbc-sbe-rtgpolicy-natable-entry)# exit
Router(config-sbc-sbe-rtgpolicy-natable)# entry 2
Router(config-sbc-sbe-rtgpolicy-natable-entry)# match-prefix 1XX
Router(config-sbc-sbe-rtgpolicy-natable-entry)# category Non-Emergency
Router(config-sbc-sbe-rtgpolicy-natable-entry)# action accept
Router(config-sbc-sbe-rtgpolicy-natable-entry)# exit
Router(config-sbc-sbe-rtgpolicy-natable)# entry 3
Router(config-sbc-sbe-rtgpolicy-natable-entry)# match-prefix 911
Router(config-sbc-sbe-rtgpolicy-natable-entry)# category Emergency
Router(config-sbc-sbe-rtgpolicy-natable-entry)# action accept
Router(config-sbc-sbe-rtgpolicy-natable-entry)# exit
Router(config-sbc-sbe-rtgpolicy-natable)# entry 4
Router(config-sbc-sbe-rtgpolicy-natable-entry)# match-prefix X
Router(config-sbc-sbe-rtgpolicy-natable-entry)# action reject
Router(config-sbc-sbe-rtgpolicy-natable-entry)# exit
Router(config-sbc-sbe-rtgpolicy-natable)# complete
Router(config-sbc-sbe-rtgpolicy)# active-call-policy-set 4
Router(config-sbc-sbe)#
Router(config-sbc-sbe)#
Router(config-sbc-sbe)#
Router(config-sbc-sbe)# call-policy-set 5
Router(config-sbc-sbe-rtgpolicy)# $routing-table ROUTE-ON-DEST-NUM
Router(config-sbc-sbe-rtgpolicy)# $ress-table ROUTE-ON-DEST-NUM

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Router(config-sbc-sbe-rtgpolicy-rtgtable)# entry 1
Router(config-sbc-sbe-rtgpolicy-rtgtable-entry)# match-address 212
Router(config-sbc-sbe-rtgpolicy-rtgtable-entry)# prefix
Router(config-sbc-sbe-rtgpolicy-rtgtable-entry)# edit add-prefix 1
Router(config-sbc-sbe-rtgpolicy-rtgtable-entry)# dst-adjacency CUCM1
Router(config-sbc-sbe-rtgpolicy-rtgtable-entry)# action complete
Router(config-sbc-sbe-rtgpolicy-rtgtable-entry)# exit
Router(config-sbc-sbe-rtgpolicy-rtgtable)# entry 2
Router(config-sbc-sbe-rtgpolicy-rtgtable-entry)# match-address 215
Router(config-sbc-sbe-rtgpolicy-rtgtable-entry)# prefix
Router(config-sbc-sbe-rtgpolicy-rtgtable-entry)# dst-adjacency CUCM1
Router(config-sbc-sbe-rtgpolicy-rtgtable-entry)# action complete
Router(config-sbc-sbe-rtgpolicy-rtgtable-entry)# entry 3
Router(config-sbc-sbe-rtgpolicy-rtgtable-entry)# match-address 732
Router(config-sbc-sbe-rtgpolicy-rtgtable-entry)# prefix
Router(config-sbc-sbe-rtgpolicy-rtgtable-entry)# dst-adjacency CUCM2
Router(config-sbc-sbe-rtgpolicy-rtgtable-entry)# action complete
Router(config-sbc-sbe-rtgpolicy-rtgtable-entry)# exit
Router(config-sbc-sbe-rtgpolicy-rtgtable)# entry 4
Router(config-sbc-sbe-rtgpolicy-rtgtable-entry)# match-address 908
Router(config-sbc-sbe-rtgpolicy-rtgtable-entry)# prefix
Router(config-sbc-sbe-rtgpolicy-rtgtable-entry)# dst-adjacency CUCM2
Router(config-sbc-sbe-rtgpolicy-rtgtable-entry)# edit replace 609
Router(config-sbc-sbe-rtgpolicy-rtgtable-entry)# action complete
Router(config-sbc-sbe-rtgpolicy-rtgtable-entry)# complete
Router(config-sbc-sbe-rtgpolicy)# exit
Router(config-sbc-sbe)# active-call-policy-set 5
Router(config-sbc-sbe)#
Router(config-sbc-sbe)#
Router(config-sbc-sbe)#
Router(config-sbc-sbe)# cac-policy-set 1
Router(config-sbc-sbe-cacpolicy)# $ Ignore the bandwidth field in SDP
Router(config-sbc-sbe-cacpolicy)# first-cac-table BW
Router(config-sbc-sbe-cacpolicy)# first-cac-scope call
Router(config-sbc-sbe-cacpolicy)# cac-table BW
Router(config-sbc-sbe-cacpolicy-cactable)# table-type policy-set
Router(config-sbc-sbe-cacpolicy-cactable)# entry 1
Router(config-sbc-sbe-cacpolicy-cactable-entry)# $idth-field ignore
Router(config-sbc-sbe-cacpolicy-cactable-entry)# action cac-complete
Router(config-sbc-sbe-cacpolicy-cactable-entry)# complete
Router(config-sbc-sbe-cacpolicy)# active-cac-policy-set 1
Router(config-sbc-sbe)#
Router(config-sbc-sbe)#

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