

POLICY RESULT ERROR: null
session action = None
TRIGGER: Message: com.broadhop.diameter2.messages.DiameterRequestMessage
Application Id: Rx (16777236)
Command Code: Rx_AAR (265)
Dest realm: YYYY.mncXYZ.mccXYZ.3gppnetwork.org
Device protocol: RX_TGPP
End to end id: 90747852 (0x0568b3cc)
Hop by hop id: 2509770985 (0x959810e9)
Origin state: 0
Stack name: null
Origin host: XXXX.ims.mncXYZ.mccXYZ.3gppnetwork.org
Origin realm: XXXX.ims.mncXYZ.mccXYZ.3gppnetwork.org
Session-Id: pcsf-stdn.imsgr0up1-111-1111111.aaa.sbc.bbb.com;316160;1;5.2551556468.2;pcsf-stdn.imsgr0up1-111-1111111
Auth-Application-Id: 16777236
Media-Component-Description:

Media-Component-Number: 1
Media-Sub-Component:
Flow-Number: 1
Flow-Description:
Media-Sub-Component:
Flow-Number: 2

Codec-Data: uplink\r\noffer\r\nnm=audio 50010 RTP/AVP 99 97 105 96\r\nna=rtpmap:99 AMR-WB/16000/1\r\nna=fmtp:99 mode-change-capability=2;max-red=0\r\nna=rtpmap:97 AMR/8000/1\r\nna=fmtp:97 mode-change-capability=2;max-red=0\r\nna=rtpmap:105 telephone-event/16000\r\nna=fmtp:105 0-15\r\nna=rtpmap:96 telephone-event/8000\r\nna=fmtp:96 0-15\r\nna=curr:qos local none\r\nna=curr:qos remote none\r\nna=des:qos mandatory local sendrecv\r\nna=des:qos optional remote sendrecv\r\nna=ptime:20\r\nna=maxptime:240\r\n

(0x75706c696e6b0d0a6f666665720d0a6d3d617564696f203530303130205254502f415650203939203937203130352039360d0a613d7274706d61703a393920414d522d57422f31363030302f310d0a613d666d74703a3939206d6f64652d6368616e67652d6361706162696c6974793d323b6d61782d7265643d300d0a613d7274706d61703a393720414d522f383030302f310d0a613d666d74703a3937206d6f64652d6368616e67652d6361706162696c6974793d323b6d61782d7265643d300d0a613d7274706d61703a3130352074656c6570686f6e652d6576656e742f31363030300d0a613d666d74703a31303520302d31350d0a613d7274706d61703a39362074656c6570686f6e652d6576656e742f383030300d0a613d666d74703a393620302d31350d0a613d637572723a716f732072656d6f7465206e6f6e650d0a613d637572723a716f732072656d6f7465206e6f6e650d0a613d6465733a716f73206d616e6461746f7279206c6f63616c2073656e64726563760d0a613d6465733a716f73206f7074696f6e616c2072656d6f74652073656e64726563760d0a613d7074696d653a32300d0a613d6d6178)

Codec-Data: downlink\r\nanswer\r\nnm=audio 36602 RTP/AVP 97 96\r\nna=rtpmap:97 AMR/8000/1\r\nna=fmtp:97 mode-set=0,2,4,7; mode-change-period=2; mode-change-capability=2; mode-change-neighbor=1; max-red=0\r\nna=rtpmap:96 telephone-event/8000\r\nna=fmtp:96 0-15\r\nna=curr:qos local sendrecv\r\nna=curr:qos remote none\r\nna=des:qos mandatory local sendrecv\r\nna=des:qos mandatory remote sendrecv\r\nna=conf:qos remote sendrecv\r\nna=maxptime:40\r\n(0x646f776e6c696e6b0d0a616e737765720d0a6d3d617564696f203336363032205254502f4156502039372039360d0a613d7274706d61703a393720414d522f383030302f310d0a613d666d74703a3937206d6f64652d7365743d302c322c342c373b206d6f64652d6368616e67652d706572696f643d323b206d6f64652d6368616e67652d6361706162696c6974793d323b206d6f64652d6368616e67652d6e65696768626f723d313b206d61782d7265643d300d0a613d7274706d61703a39362074656c6570686f6e652d6576656e742f383030300d0a613d666d74703a393620302d31350d0a613d637572723a716f732072656d6f7465206e6f6e650d0a613d6465733a716f73206d616e6461746f7279206c6f63616c2073656e64726563760d0a613d6465733a716f73206d616e6461746f72792072656d6f74652073656e64726563760d0a613d636f6e663a716f732072656d6f74652073656e64726563760d0a613d6d6178707)

DEBUG MSGS:
INFO : (core) Tagging message with ID: RX_TGPP
INFO : (rx) Sending 265 Message on session pcsf-stdn.imsgr0up1-111-1111111.aaa.sbc.bbb.com;316160;1;5.2551556468.2;pcsf-stdn.imsgr0up1-111-1111111
INFO : (balance) Error found, rolling back transaction

```
ERROR : (core) Error processing policy request: null
SERVICE CALC MSGS:
USE CASES:
SENT MESSAGES (asynchronous):
Message: com.broadhop.diameter2.messages.DiameterResponseMessage
Application Id: Rx (16777236)
Command Code: Rx_AAA (265)
Dest host: XXXX.ims.mncXYZ.mccXYZ.3gppnetwork.org
Dest realm: XXXX.ims.mncXYZ.mccXYZ.3gppnetwork.org
Device protocol: RX_TGPP
End to end id: 90747852 (0x0568b3cc)
Hop by hop id: 2509770985 (0x959810e9)
Origin state: 0
Stack name: null
Origin realm: YYYY.ims.mncXYZ.mccXYZ.3gppnetwork.org
Session-Id: pcsf-stdn.imsgrp1-111-
1111111.aaa.sbc.bbb.com;316160;1;5.2551556468.2;pcsf-stdn.imsgrp1-111-1111111
Auth-Application-Id: 16777236
QPS-Internal-Route-Record-Host: XXXX.ims.mncXYZ.mccXYZ.3gppnetwork.org
QPS-Internal-Route-Record-Realm: XXXX.ims.mncXYZ.mccXYZ.3gppnetwork.org
Result-Code: DIAMETER_UNABLE_TO_COMPLY (5012)
```

كرحملا تالاجس: حاجنلا ةلاح

ةدحوو ةلصولا زيمرت نم لك في ةيرشع ةيسادس تانايب في رهظت ال، حاجنلا ةلاح في نم لك في فرصتلا دعب ام ريرقت في قرف في اوجوي الو هاجتال يئانث لاسرلالي في مكحتلا لشل او حاجنلا تالاجس.

حاجنلا بسح حجان لمح (core) : INFO الى عوجرلا كنكمي، حاجنلا ةلاح لة بسنلاب في ةدوجوم نكت مل يتلا DEBUG MSG نمض imsiFramedIpKey:111111111111:172.16.xx.yy لشل ويرانيس.

```
HOSTNAME-qnsXX [yyyy-mm-dd 15:33:30,543]
POLICY RESULT SUCCESS:
session action = None
domainId = IMS
locationId = ims
SERVICES: IMS_DEFAULT
TRIGGER: Message: com.broadhop.diameter2.messages.DiameterRequestMessage
Application Id: Rx (16777236)
Command Code: Rx_AAR (265)
Dest realm: YYYY.ims.mncXYZ.mccXYZ.3gppnetwork.org
Device protocol: RX_TGPP
End to end id: 182837146 (0x0ae5df9a)
Hop by hop id: 2274945953 (0x8798eba1)
Origin state: 0
Stack name: null
Origin host: XXXX.ims.mncXYZ.mccXYZ.3gppnetwork.org
Origin realm: XXXX.ims.mncXYZ.mccXYZ.3gppnetwork.org
Session-Id: pcsf-stdn.imsgrp1-111-
1111111.aaa.sbc.bbb.com;316160;1;5.2551556468.2;pcsf-stdn.imsgrp1-111-1111111
Auth-Application-Id: 16777236
Media-Component-Description:
Media-Component-Number: 1
Media-Sub-Component:
Flow-Number: 1
Media-Sub-Component:
Flow-Number: 2
```

Codec-Data: uplink\r\noffer\r\nnm=audio 50008 RTP/AVP 116 107 118
96 111 110\r\na=rtpmap:116 AMR-WB/16000/1\r\na=fmtp:116 mode-change-capabil
ity=2;max-red=220\r\na=rtpmap:107 AMR-WB/16000/1\r\na=fmtp:107 octet-align=1;mode-change-
capability=2;max-red=220\r\na=rtpmap:118 AMR/8000/1\r\na=fmtp:118 mode-change-capab
ility=2;max-red=220\r\na=rtpmap:96 AMR/8000/1\r\na=fmtp:96 octet-align=1;mode-change-
capability=2;max-red=220\r\na=rtpmap:111 telephone-event/16000\r\na=fmtp:111 0-15\r\na=
rtpmap:110 telephone-event/8000\r\na=fmtp:110 0-15\r\na=curr:qos local none\r\na=curr:qos remote
none\r\na=des:qos mandatory local sendrecv\r\na=des:qos optional remote sen
drecv\r\na=ptime:20\r\na=maxptime:240\r\n (uplink
offer
m=audio 50008 RTP/AVP 116 107 118 96 111 110 **Note: Codec-Data is in readable form not like how
it was in failure case.**

a=rtpmap:116 AMR-WB/16000/1
a=fmtp:116 mode-change-capability=2;max-red=220
a=rtpmap:107 AMR-WB/16000/1
a=fmtp:107 octet-align=1;mode-change-capability=2;max-red=220
a=rtpmap:118 AMR/8000/1
a=fmtp:118 mode-change-capability=2;max-red=220
a=rtpmap:96 AMR/8000/1
a=fmtp:96 octet-align=1;mode-change-capability=2;max-red=220
a=rtpmap:111 telephone-event/16000
a=fmtp:111 0-15
a=rtpmap:110 telephone-event/8000
a=fmtp:110 0-15
a=curr:qos local none
a=curr:qos remote none
a=des:qos mandatory local sendrecv
a=des:qos optional remote sendrecv
a=ptime:20
a=maxptime:240

)
Codec-Data: downlink\r\nanswer\r\nnm=audio 3302 RTP/AVP 118
110\r\na=rtpmap:118 AMR/8000/1\r\na=fmtp:118 mode-set=0,2,4,7; mode-change-period
=2; mode-change-capability=2; mode-change-neighbor=1; max-red=0\r\na=rtpmap:110 telephone-
event/8000\r\na=fmtp:110 0-15\r\na=curr:qos local sendrecv\r\na=curr:qos remote no
ne\r\na=des:qos mandatory local sendrecv\r\na=des:qos mandatory remote sendrecv\r\na=conf:qos
remote sendrecv\r\na=maxptime:40\r\n (downlink

answer
m=audio 3302 RTP/AVP 118 110
a=rtpmap:118 AMR/8000/1
a=fmtp:118 mode-set=0,2,4,7; mode-change-period=2; mode-change-capability=2; mode-change-
neighbor=1; max-red=0
a=rtpmap:110 telephone-event/8000
a=fmtp:110 0-15
a=curr:qos local sendrecv
a=curr:qos remote none
a=des:qos mandatory local sendrecv
a=des:qos mandatory remote sendrecv
a=conf:qos remote sendrecv
a=maxptime:40

)
Media-Type: AUDIO (0)
Max-Requested-Bandwidth-UL: 64000
Max-Requested-Bandwidth-DL: 41000
Flow-Status: ENABLED (2)
RS-Bandwidth: 0
RR-Bandwidth: 0
Subscription-Id:
Subscription-Id-Type: END_USER_SIP_URI (2)
Subscription-Id-Data:
sip:+911234567890@ims.mncXYZ.mccXYZ.3gppnetwork.org
Subscription-Id:
Subscription-Id-Type: END_USER_IMSI (1)

Subscription-Id-Data: <1111111111111111>
AF-Charging-Identifier: "PCSF:1-sbc"
Specific-Action: INDICATION_OF_LOSS_OF_BEARER (2)
Specific-Action: INDICATION_OF_RECOVERY_OF_BEARER (3)
Specific-Action: INDICATION_OF_RELEASE_OF_BEARER (4)
Specific-Action: IP_CAN_CHANGE (6)
Framed-IP-Address: 172.16.xx.yy (0x0aAAAAcB)
Supported-Features:
Vendor-Id: XXXX

Service-Info-Status: FINAL SERVICE INFORMATION (0)
QPS-Internal-Route-Record-Host: XXXX.ims.mncXYZ.mccXYZ.3gppnetwork.org
QPS-Internal-Route-Record-Realm: XXXX.ims.mncXYZ.mccXYZ.3gppnetwork.org

DEBUG MSGS:
INFO : (core) Tagging message with ID: RX_TGPP
INFO : (core) Successful load by key:
imsiFramedIpKey:1111111111111111:172.16.xx.yy <<<<<<<<
INFO : (core) Start session triggered
INFO : (rx) Success binding to Gx session 0008-
diamproxy.AAAA.cisco.com;11111111;11111111;5c765a28-3b02 by IMSI And IP Address
INFO : (TGPP) [Rel8, Rel9, Rel10] features supported for Vendor-Id XXXX,
Feature-List-ID X
INFO : (core) domain: IMS
INFO : (rx) Sending AAA Message on session pcsf-stdn.imsgr oup1-111-
1111111.aaa.sbc.bbb.com;316160;1;5.2551556468.2;pcsf-stdn.imsgr oup1-111-1111111
INFO : (gx) Installing preconfigured rule: _1_1_2_AF_AUDIO
INFO : (gx) Installing preconfigured rule: _1_1_1_AF_AUDIO
INFO : (et) Event trigger 2 added
INFO : (et) Event trigger 5 added
INFO : (et) Event trigger 6 added
INFO : (et) Event trigger 7 added
INFO : (gx) Sending RAR Message on session 0008-
diamproxy.AAAA.cisco.com;11111111;11111111;5c765a28-3b02

SERVICE CALC MSGS:
USE CASES:
INFO : (use-cases) Use case 'XXXX IMS Default', status: true, Condition: No
Condition Set

SENT MESSAGES (asynchronous):
Message: com.broadhop.diameter2.messages.DiameterResponseMessage
Application Id: Rx (16777236)
Command Code: Rx_AAA (265)
Dest host: XXXX.ims.mncXYZ.mccXYZ.3gppnetwork.org
Dest realm: XXXX.ims.mncXYZ.mccXYZ.3gppnetwork.org
Device protocol: RX_TGPP
End to end id: 182837146 (0x0ae5df9a)
Hop by hop id: 2274945953 (0x8798eba1)
Origin state: 0
Stack name: null
Origin realm: pcrf.mncXYZ.mccXYZ.3gppnetwork.org
Session-Id: pcsf-stdn.imsgr oup1-111-
1111111.aaa.sbc.bbb.com;316160;1;5.2551556468.2;pcsf-stdn.imsgr oup1-111-1111111
Auth-Application-Id: 16777236
IP-CAN-Type: 3GPP_EPS (5)
RAT-Type: EUTRAN (1004)
Supported-Features:
Vendor-Id: XXXX

QPS-Internal-Route-Record-Host: XXXX.ims.mncXYZ.mccXYZ.3gppnetwork.org
QPS-Internal-Route-Record-Realm: XXXX.ims.mncXYZ.mccXYZ.3gppnetwork.org

Result-Code: DIAMETER_SUCCESS (2001)

يف كلذة ظحال م نكمي و. ثدحي الة سلج Rx عم Gx طبر نأ اضيأ ودبي ةجمدمل Qns تالجس نم انه حضوم ءانثتسإ ةطساوب ةجمدمل qns تالجس

```
HOSTNAME-qnsXX yyyy-mm-dd 02:23:03,445 [pool-3-thread-1] WARN
c.b.policy.impl.RulesPolicyService - An exception was thrown while executing a policy action.

java.lang.NullPointerException: null <<<<<<<<<<

    at
com.broadhop.diameter2.policy.rx.tgpp.DiameterRxTGPPDeviceMgr.getGxSession(DiameterRxTGPPDeviceMgr.java:1104)

    at
com.broadhop.diameter2.policy.rx.tgpp.DiameterRxTGPPDeviceMgr.filterEvent(DiameterRxTGPPDeviceMgr.java:7418)

    at com.broadhop.blueprint.master.MasterBlueprint.filterEvent(MasterBlueprint.java:1283)

    at
com.broadhop.blueprint.master.MasterBlueprint.executionPreSession2(MasterBlueprint.java:245)

    at
com.broadhop.policy.Rule_Execute_Presession_Phase_2__392a9765_1022_4823_b082_cde9f22abf37__e4BawWmREeKEu46lGH_XOQ__0.consequence(Unknown Source)
```

لحل

ام ريراقت ددع نأ طحال ي و 5 ىلع هنيي عت م تو DB ل لمالك ل يئوضلا حسم لا حبك ني كمت مت RX تاباجتسا نأ طحال ي ،هسفن تقولا ي فو ،(5*22) ريراقت 110 زواجتي و ديزي فرصتلا دعب AAA 5012.

صحفلا حمسي امنيب ، QNS VM زاغ 22 كان هو 5 ىلع مكحتلا عضو نيي عت مت دق هأل كلذو طقف بلط 110 مي دقتب DB ل لمالك ل

دعب ام ريراقت تابلط عي مج موقت .أطخلا ةباجتسا عم ىرخألا تابلطلا عي مج طاقسا متي نألا ىتح IMSlandframedIP حاتفم نيوكتب مقت مل اهأل ارطن لمالك لاب DB حسمب فرصتلا تحبلا حياتافي

ةلكشملا ل حل ءارجالا وه اذه:

1. ةوطخلا تحبلا حياتافم تائداب - ةعومجملا - PB نمض **imsiFramedIpKey** ةفاضإ 1. ةوطخلا

(رشنلا دعب قئاقد 5 رظتنا) حاجنب رشنلا ىتح رظتنا 2. ةوطخلا

مادختساب QNS ةيلمع ليغشت دعأو "ةعومجملا ري دم" ةيفرطلا ةدحو لا إل عجرا 3. ةوطخلا **restarlong.sh** في صنلا جم انربلا

نم ققحتلل **Diagnoics.sh** ليغشتب مق ،ليغشتلا ةداعإ ةيلمع لامتك درجمب 4. ةوطخلا CPS ليغشت

telnet رمأ مادختساب QNS OSGI مكحت ةدحو ىلإ لوخدلا ليحستب مق 5. ةوطخلا

```
telnet <qns vm host name> 9091 [Eg:- telnet qns01 9091]
```

Execute "rebuildAllSkRings" command on OSGI console to rebuild the configured "Lookaside Key Prefixes" so qns process start utilizing it

```
osgi> rebuildAllSkRings
```

Please wait until execution completes

Execute "disconnect" command on console and it waits for user input just press "Enter" key to come out from OSGI console.

```
osgi> disconnect
```

Disconnect from console? (y/n; default=y)

Connection closed by foreign host.

ةمچرتل هذه ل و ح

ةلأل تاي نقتل ن م ة و مچ م ادخت ساب دن تسمل اذ ه Cisco ت مچرت
ملاعلاء ن أ عي مچ ي ف ن ي م دخت سمل ل معد ي و تح م مي دقت ل ة ي رش ب ل و
امك ة ق ي قد ن و ك ت ن ل ة ي ل أ ة مچرت ل ض ف أ ن أ ة ظ حال م ي ج ر ي . ة ص ا خ ل م ه ت غ ل ب
Cisco ي ل خ ت . ف ر ت ح م مچرت م ا ه م د ق ي ي ت ل ا ة ي ف ا ر ت ح ا ل ا ة مچرت ل ا ع م ل ا ح ل ا و ه
ي ل ا م ا د ع و ج ر ل ا ب ي ص و ت و ت ا مچرت ل ا ه ذ ه ة ق د ن ع ا ه ت ي ل و ئ س م Cisco
Systems (رف و ت م ط بار ل ا) ي ل ص أ ل ا ي ز ي ل ج ن ا ل ا دن تسمل ا