

# Resuelva problemas la degradación 4G ASR KPI debido a un aumento en el motivo de desconexión MME-HS-usuario-desconocido

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## Introducción

Este documento describe cómo resolver problemas el problema que ocurre cuando ocurre la degradación del indicador de rendimiento clave del índice de éxito de la fijación 4G (ASR) (KPI) cuando se aumenta el motivo de desconexión MME-HS-usuario-**desconocido**.

## Prerrequisitos

### Requisitos

Cisco recomienda que tenga conocimiento sobre estos temas:

- Conocimiento de la dotación física de 5000/5500
- StarOS

### Componentes Utilizados

Este documento no tiene restricciones específicas en cuanto a versiones de software y de hardware.

La información que contiene este documento se creó a partir de los dispositivos en un ambiente de laboratorio específico.

Todos los dispositivos que se utilizan en este documento se pusieron en funcionamiento con una configuración verificada (predeterminada). Si tiene una red en vivo, asegúrese de entender el posible impacto de cualquier comando.

# Abreviaturas

ASR	Asocie el índice de éxito
KPI	Indicador de rendimiento clave
AIRE	Petición de la información de autenticación
AYA	Respuesta de la información de autenticación
CER	Petición del intercambio de capacidad
EL CEA	Respuesta del intercambio de capacidad
MME	Entidad de administración de la movilidad
HS	Servidor del suscriptor casero
DPC	Indicador luminoso LED amarillo de la placa mue gravedad menor de proceso de datos
RFC	Request For Comments
AVP	Par de valores de atributos

## Problema

El proveedor de servicio señaló que la degradación 4G ASR en un MME y el motivo de desconexión "MME-HS-usuario-desconocido" fue aumentada.

el motivo de desconexión del "mme-HS-usuario-unknown(375)" describe el número total de sesiones desconectadas porque el usuario de MME HSS es desconocido.

Un rastro del error que fue capturado señaló que los HS rechazaban la autenticación como código de resultado DIAMETER\_MISSING\_AVP (5005) en el mensaje de AYA.

MME "DIAMETER\_MISSING\_AVP constantemente conseguido (el 5005)" de los HS y de éste es cómo el mensaje de AYA del error parece:

```
INBOUND>>>> From diamproxy:52 oxy_conn_mgmt.c:3406 (Callid 4c0ea07a) 08:42:11:109
Eventid:81991(5)
Diameter message from 10.5.40.X:6000 to 10.0.231.Y:49417
Base Header Information:
  Version:          0x01          (1)
  Message Length:   0x000110      (272)
  Command Flags:    0x40          (64)  PXY
  Command Code:     0x00013e      (318)  Authentication-Information-Answer
  Application ID:   0x01000023      (16777251)  3GPP-S6a
  Hop2Hop-ID:      0xad40545      (2914256197)
  End2End-ID:      0x2cafadd5      (749710805)
AVP Information:
  [M] Session-Id
      Code:          0x00000107      (263)  Session-Id
      Flags:         0x40          (64)  [M]
      Length:        0x000069      (105)
      Data: 0004-
diamproxy.MMEC001.MMEGI32000.MME.EPC.MNC0XY.MCC404.3GPPNET;1276027002;2496613;5c204e8b-16502
  [M] Auth-Session-State
      Code:          0x00000115      (277)  Auth-Session-State
      Flags:         0x40          (64)  [M]
      Length:        0x00000c      (12)
      Data: NO_STATE_MAINTAINED (1)
  [M] Origin-Host
      Code:          0x00000108      (264)  Origin-Host
```

```

Flags:      0x40      (64)  [M]
Length:     0x000033  (51)
Data: hss101.epc.mnc0XY.mcc404.3gppnetwork.org
[M] Origin-Realm
Code:       0x00000128 (296) Origin-Realm
Flags:      0x40      (64)  [M]
Length:     0x000029  (41)
Data: epc.mnc0XY.mcc404.3gppnetwork.org
[M] Result-Code
Code:       0x0000010c (268) Result-Code
Flags:      0x40      (64)  [M]
Length:     0x00000c  (12)
Data: DIAMETER_MISSING_AVP (5005) >> DIAMETER_MISSING_AVP(5005)received from HSS
[M] Failed-AVP
Code:       0x00000117 (279) Failed-AVP
Flags:      0x40      (64)  [M]
Length:     0x000018  (24)
  [V] [M] Visited-PLMN-Id
    Code:     0x0000057f (1407) Visited-PLMN-Id
    Flags:    0xc0      (192) [V]  [M]
    Length:   0x00000d  (13)
    Vendor-Id: 0x000028af (10415) 3GPP
    Data: 0x00

```

## Troubleshooting

Esta sección proporciona a la información que usted puede utilizar para resolver problemas el problema de la degradación ASR KPI debido a un aumento en el motivo de desconexión MME-HS-usuario-desconocido.

El “submarino recogido de lunes” se rastrea y se compara con el decorado del éxito y fracaso. Las características admitidas AVP faltan en el AIRE del MME al servidor HS.

El mensaje acertado del AIRE y de AYA se captura del **rastros del submarino de lunes**. Éste es el mensaje del AIRE que se envía del MME a los HS:

```

INBOUND>>>>> From diamproxy:52 oxy_conn_mgmt.c:3406 (Callid 4c0ea07a) 08:42:11:109
Eventid:81991(5)
Diameter message from 10.5.40.X:6000 to 10.0.231.Y:49417
Base Header Information:
  Version:          0x01      (1)
  Message Length:   0x000110  (272)
  Command Flags:    0x40      (64)  PXY
  Command Code:     0x00013e  (318) Authentication-Information-Answer
  Application ID:   0x01000023 (16777251) 3GPP-S6a
  Hop2Hop-ID:      0xad40545  (2914256197)
  End2End-ID:      0x2cafadd5 (749710805)
AVP Information:
  [M] Session-Id
    Code:           0x00000107 (263) Session-Id
    Flags:          0x40      (64)  [M]
    Length:         0x000069  (105)
    Data: 0004-
diamproxy.MMEC001.MMEGI32000.MME.EPC.MNC0XY.MCC404.3GPPNET;1276027002;2496613;5c204e8b-16502
  [M] Auth-Session-State
    Code:           0x00000115 (277) Auth-Session-State
    Flags:          0x40      (64)  [M]
    Length:         0x00000c  (12)
    Data: NO_STATE_MAINTAINED (1)
  [M] Origin-Host

```

```

Code:      0x00000108 (264) Origin-Host
Flags:     0x40        (64)  [M]
Length:    0x000033   (51)
Data: hss101.epc.mnc0XY.mcc404.3gppnetwork.org
[M] Origin-Realm
Code:      0x00000128 (296) Origin-Realm
Flags:     0x40        (64)  [M]
Length:    0x000029   (41)
Data: epc.mnc0XY.mcc404.3gppnetwork.org
[M] Result-Code
Code:      0x0000010c (268) Result-Code
Flags:     0x40        (64)  [M]
Length:    0x00000c   (12)
Data: DIAMETER_MISSING_AVP (5005) >> DIAMETER_MISSING_AVP(5005)received from HSS
[M] Failed-AVP
Code:      0x00000117 (279) Failed-AVP
Flags:     0x40        (64)  [M]
Length:    0x000018   (24)
  [V] [M] Visited-PLMN-Id
    Code:    0x0000057f (1407) Visited-PLMN-Id
    Flags:   0xc0        (192) [V]  [M]
    Length:  0x00000d   (13)
    Vendor-Id: 0x000028af (10415) 3GPP
    Data: 0x00

```

El mensaje de AYA que se envía de los HS al MME es:

```

INBOUND>>>> From diamproxy:52 oxy_conn_mgmt.c:3406 (Callid 4c0ea07a) 08:42:11:109
Eventid:81991(5)

```

```

Diameter message from 10.5.40.X:6000 to 10.0.231.Y:49417

```

```

Base Header Information:

```

```

Version:      0x01        (1)
Message Length: 0x000110   (272)
Command Flags: 0x40        (64)  PXY
Command Code:  0x00013e   (318) Authentication-Information-Answer
Application ID: 0x01000023 (16777251) 3GPP-S6a
Hop2Hop-ID:    0xad40545  (2914256197)
End2End-ID:    0x2cafadd5 (749710805)

```

```

AVP Information:

```

```

[M] Session-Id
Code:      0x00000107 (263) Session-Id
Flags:     0x40        (64)  [M]
Length:    0x000069   (105)
Data: 0004-

```

```

diamproxy.MMEC001.MMEGI32000.MME.EPC.MNC0XY.MCC404.3GPPNET;1276027002;2496613;5c204e8b-16502

```

```

[M] Auth-Session-State
Code:      0x00000115 (277) Auth-Session-State
Flags:     0x40        (64)  [M]
Length:    0x00000c   (12)
Data: NO_STATE_MAINTAINED (1)

```

```

[M] Origin-Host
Code:      0x00000108 (264) Origin-Host
Flags:     0x40        (64)  [M]
Length:    0x000033   (51)
Data: hss101.epc.mnc0XY.mcc404.3gppnetwork.org

```

```

[M] Origin-Realm
Code:      0x00000128 (296) Origin-Realm
Flags:     0x40        (64)  [M]
Length:    0x000029   (41)
Data: epc.mnc0XY.mcc404.3gppnetwork.org

```

```

[M] Result-Code
Code:      0x0000010c (268) Result-Code
Flags:     0x40        (64)  [M]

```

```

Length:      0x00000c   (12)
Data: DIAMETER_MISSING_AVP (5005) >> DIAMETER_MISSING_AVP(5005)received from HSS
[M] Failed-AVP
Code:        0x00000117 (279) Failed-AVP
Flags:       0x40         (64) [M]
Length:      0x000018   (24)
  [V] [M] Visited-PLMN-Id
    Code:     0x0000057f (1407) Visited-PLMN-Id
    Flags:    0xc0         (192) [V] [M]
    Length:   0x00000d   (13)
    Vendor-Id: 0x000028af (10415) 3GPP
    Data:     0x00

```

Los mensajes del AIRE y de AYA del error se capturan del rastro del submarino de lunes.

El mensaje del AIRE que se envía del MME a los HS es:

```

<<<<OUTBOUND From diamproxy:52 diamproxy_rlf.c:553 (Callid 4c0ea07a) 08:42:11:089
Eventid:81990(5)

```

```

Diameter message from 10.0.231.Y:49417 to 10.5.40.X:6000

```

```

Base Header Information:

```

```

Version:      0x01         (1)
Message Length: 0x000150   (336)
Command Flags: 0xc0         (192) REQ PXY
Command Code:  0x00013e   (318) Authentication-Information-Request
Application ID: 0x01000023 (16777251) 3GPP-S6a
Hop2Hop-ID:   0xad40545   (2914256197)
End2End-ID:   0x2cafadd5   (749710805)

```

```

AVP Information:

```

```

[M] Session-Id
Code:         0x00000107 (263) Session-Id
Flags:        0x40         (64) [M]
Length:       0x000069   (105)
Data: 0004-

```

```

diamproxy.MMEC001.MMEGI32000.MME.EPC.MNC0XY.MCC404.3GPPNET;1276027002;2496613;5c204e8b-16502

```

```

[M] Auth-Session-State
Code:         0x00000115 (277) Auth-Session-State
Flags:        0x40         (64) [M]
Length:       0x00000c   (12)
Data: NO_STATE_MAINTAINED (1)

```

```

[M] Origin-Host
Code:         0x00000108 (264) Origin-Host
Flags:        0x40         (64) [M]
Length:       0x00004f   (79)
Data: 0004-diamproxy.MMEC001.MMEGI32000.MME.EPC.MNC0XY.MCC404.3GPPNETWORK.ORG

```

```

[M] Origin-Realm
Code:         0x00000128 (296) Origin-Realm
Flags:        0x40         (64) [M]
Length:       0x00002d   (45)
Data: MME.epc.mnc0XY.mcc404.3gppnetwork.org

```

```

[M] Destination-Realm
Code:         0x0000011b (283) Destination-Realm
Flags:        0x40         (64) [M]
Length:       0x000029   (41)
Data: epc.mnc0XY.mcc404.3gppnetwork.org

```

```

[M] User-Name
Code:         0x00000001 (1) User-Name
Flags:        0x40         (64) [M]
Length:       0x000017   (23)
Data: 404XY0000022222

```

El mensaje de AYA que se envía de los HS al MME es:

INBOUND>>>> From diamproxy:52 oxy\_conn\_mgmt.c:3406 (Callid 4c0ea07a) 08:42:11:109  
Eventid:81991(5)

Diameter message from 10.5.40.X:6000 to 10.0.231.Y:49417

Base Header Information:

Version: 0x01 (1)  
Message Length: 0x000110 (272)  
Command Flags: 0x40 (64) PXY  
Command Code: 0x00013e (318) Authentication-Information-Answer  
Application ID: 0x01000023 (16777251) 3GPP-S6a  
Hop2Hop-ID: 0xad40545 (2914256197)  
End2End-ID: 0x2cafadd5 (749710805)

AVP Information:

[M] Session-Id

Code: 0x00000107 (263) Session-Id  
Flags: 0x40 (64) [M]  
Length: 0x000069 (105)  
Data: **0004-**

**diamproxy.MMEC001.MMEGI32000.MME.EPC.MNC0XY.MCC404.3GPPNET;1276027002;2496613;5c204e8b-16502**

[M] Auth-Session-State

Code: 0x00000115 (277) Auth-Session-State  
Flags: 0x40 (64) [M]  
Length: 0x00000c (12)  
Data: NO\_STATE\_MAINTAINED (1)

[M] Origin-Host

Code: 0x00000108 (264) Origin-Host  
Flags: 0x40 (64) [M]  
Length: 0x000033 (51)  
Data: hss101.epc.mnc0XY.mcc404.3gppnetwork.org

[M] Origin-Realm

Code: 0x00000128 (296) Origin-Realm  
Flags: 0x40 (64) [M]  
Length: 0x000029 (41)  
Data: epc.mnc0XY.mcc404.3gppnetwork.org

[M] Result-Code

Code: 0x0000010c (268) Result-Code  
Flags: 0x40 (64) [M]  
Length: 0x00000c (12)  
Data: **DIAMETER\_MISSING\_AVP (5005)**

**>>DIAMETER\_MISSING\_AVP(5005)received from**

**HSS**

[M] Failed-AVP

Code: 0x00000117 (279) Failed-AVP  
Flags: 0x40 (64) [M]  
Length: 0x000018 (24)

[V] [M] Visited-PLMN-Id

Code: 0x0000057f (1407) Visited-PLMN-Id  
Flags: 0xc0 (192) [V] [M]  
Length: 0x00000d (13)  
Vendor-Id: 0x000028af (10415) 3GPP  
Data: 0x00

Según el rastro del submarino de lunes, el error "DIAMETER\_MISSING\_AVP (el 5005)" se recibe para 0004-diamproxy, que se asocia al indicador luminoso LED amarillo de la placa muestra gravedad menor 2 DPC solamente.

```
[local]SGSN-MME-03# show diameter peers full endpoint DRA1 | grep -i -E "CPU|LOCAL HOST"  
Monday December 24 11:34:47 IST 2018  
Local Hostname: 0001-diamproxy.MMEC001.MMEGI32000.MME.EPC.MNC0XY.MCC404.3GPPNETWORK.ORG  
CPU: 8/1 Task: diamproxy-49  
Local Hostname: 0002-diamproxy.MMEC001.MMEGI32000.MME.EPC.MNC0XY.MCC404.3GPPNETWORK.ORG  
CPU: 9/1 Task: diamproxy-50  
Local Hostname: 0003-diamproxy.MMEC001.MMEGI32000.MME.EPC.MNC0XY.MCC404.3GPPNETWORK.ORG
```

```

CPU: 3/1                               Task: diamproxy-51
Local Hostname: 0004-diamproxy.MMEC001.MMEGI32000.MME.EPC.MNC0XY.MCC404.3GPPNETWORK.ORG
CPU: 2/1                               Task: diamproxy-52
Local Hostname: 0005-diamproxy.MMEC001.MMEGI32000.MME.EPC.MNC0XY.MCC404.3GPPNETWORK.ORG
CPU: 4/1                               Task: diamproxy-53
Local Hostname: 0006-diamproxy.MMEC001.MMEGI32000.MME.EPC.MNC0XY.MCC404.3GPPNETWORK.ORG
CPU: 7/1                               Task: diamproxy-54
Local Hostname: 0001-diamproxy.MMEC001.MMEGI32000.MME.EPC.MNC0XY.MCC404.3GPPNETWORK.ORG
CPU: 8/1                               Task: diamproxy-49
Local Hostname: 0002-diamproxy.MMEC001.MMEGI32000.MME.EPC.MNC0XY.MCC404.3GPPNETWORK.ORG
CPU: 9/1                               Task: diamproxy-50
Local Hostname: 0003-diamproxy.MMEC001.MMEGI32000.MME.EPC.MNC0XY.MCC404.3GPPNETWORK.ORG
CPU: 3/1                               Task: diamproxy-51
Local Hostname: 0004-diamproxy.MMEC001.MMEGI32000.MME.EPC.MNC0XY.MCC404.3GPPNETWORK.ORG
CPU: 2/1                               Task: diamproxy-52
Local Hostname: 0005-diamproxy.MMEC001.MMEGI32000.MME.EPC.MNC0XY.MCC404.3GPPNETWORK.ORG
CPU: 4/1                               Task: diamproxy-53
Local Hostname: 0006-diamproxy.MMEC001.MMEGI32000.MME.EPC.MNC0XY.MCC404.3GPPNETWORK.ORG
CPU: 7/1                               Task: diamproxy-54

```

[local]SGSN-MME-03#

Parece ser motivo de desconexión "MME-HS-usuario- desconocido" se aumenta para esos caso del sessmgr que citen como ejemplo asociado con el indicador luminoso LED amarillo de la placa muestra gravedad menor 2 DPC solamente.

```

[local]SGSN-MME-03# show diameter peers full endpoint DRA1 | grep -i -E "CPU|LOCAL HOST"
Monday December 24 11:34:47 IST 2018
Local Hostname: 0001-diamproxy.MMEC001.MMEGI32000.MME.EPC.MNC0XY.MCC404.3GPPNETWORK.ORG
CPU: 8/1                               Task: diamproxy-49
Local Hostname: 0002-diamproxy.MMEC001.MMEGI32000.MME.EPC.MNC0XY.MCC404.3GPPNETWORK.ORG
CPU: 9/1                               Task: diamproxy-50
Local Hostname: 0003-diamproxy.MMEC001.MMEGI32000.MME.EPC.MNC0XY.MCC404.3GPPNETWORK.ORG
CPU: 3/1                               Task: diamproxy-51
Local Hostname: 0004-diamproxy.MMEC001.MMEGI32000.MME.EPC.MNC0XY.MCC404.3GPPNETWORK.ORG
CPU: 2/1                               Task: diamproxy-52
Local Hostname: 0005-diamproxy.MMEC001.MMEGI32000.MME.EPC.MNC0XY.MCC404.3GPPNETWORK.ORG
CPU: 4/1                               Task: diamproxy-53
Local Hostname: 0006-diamproxy.MMEC001.MMEGI32000.MME.EPC.MNC0XY.MCC404.3GPPNETWORK.ORG
CPU: 7/1                               Task: diamproxy-54
Local Hostname: 0001-diamproxy.MMEC001.MMEGI32000.MME.EPC.MNC0XY.MCC404.3GPPNETWORK.ORG
CPU: 8/1                               Task: diamproxy-49
Local Hostname: 0002-diamproxy.MMEC001.MMEGI32000.MME.EPC.MNC0XY.MCC404.3GPPNETWORK.ORG
CPU: 9/1                               Task: diamproxy-50
Local Hostname: 0003-diamproxy.MMEC001.MMEGI32000.MME.EPC.MNC0XY.MCC404.3GPPNETWORK.ORG
CPU: 3/1                               Task: diamproxy-51
Local Hostname: 0004-diamproxy.MMEC001.MMEGI32000.MME.EPC.MNC0XY.MCC404.3GPPNETWORK.ORG
CPU: 2/1                               Task: diamproxy-52
Local Hostname: 0005-diamproxy.MMEC001.MMEGI32000.MME.EPC.MNC0XY.MCC404.3GPPNETWORK.ORG
CPU: 4/1                               Task: diamproxy-53
Local Hostname: 0006-diamproxy.MMEC001.MMEGI32000.MME.EPC.MNC0XY.MCC404.3GPPNETWORK.ORG
CPU: 7/1                               Task: diamproxy-54

```

[local]SGSN-MME-03#

**Disconnect reason for smgr-instance 749:**

```

[local]SGSN-MME-03# show session disconnect-reasons smgr-instance 749|grep -i hss-us
Monday December 24 13:45:17 IST 2018
mme-hss-user-unknown                    788      8.97597

```

```

[local]SGSN-MME-03# show session disconnect-reasons smgr-instance 749|grep -i hss-us
Monday December 24 13:45:19 IST 2018
mme-hss-user-unknown                    790      8.99158
-----

```

**Disconnect reason for smgr-instance 762:**

```

[local]SGSN-MME-03# show session disconnect-reasons smgr-instance 762|grep -i hss-us

```

Monday December 24 13:45:26 IST 2018

mme-hss-user-unknown 743 8.16125  
[local]SGSN-MME-03# show session disconnect-reasons smgr-instance 762|grep -i hss-us

Monday December 24 13:45:31 IST 2018

mme-hss-user-unknown 744 8.16147  
[local]SGSN-MME-03# show session disconnect-reasons smgr-instance 762|grep -i hss-us

Monday December 24 13:45:32 IST 2018

mme-hss-user-unknown 749 8.20732  
[local]SGSN-MME-03# show session disconnect-reasons smgr-instance 762|grep -i hss-us

Monday December 24 13:45:34 IST 2018

mme-hss-user-unknown 750 8.20659

Quando estaban controlados más lejos, los IDs utilizados del vendedor no habían sido “ningunos” para el par HS con el indicador luminoso LED amarillo de la placa muestra gravedad menor 2. DPC.

[local]SGSN-MME-03# show diameter peers full peer-host dra01.epc.mnc0XY.mcc404.3gppnetwork.org

-----  
Context: s6a Endpoint: HSS\_DRA01  
-----

Peer Hostname: dra01.epc.mnc0xy.mcc404.3gppnetwork.org  
Local Hostname: 0004-diamproxy.MMEC001.MMEGI32000.MME.EPC.MNC0XY.MCC404.3GPPNETWORK.ORG  
Peer Realm: epc.mnc0XY.mcc404.3gppnetwork.org  
Local Realm: MME.epc.mnc0XY.mcc404.3gppnetwork.org  
Peer Address: 10.5.40.X:6000  
State: OPEN [SCTP]  
CPU: 2/1 Task: sessmgr-4  
Messages Out/Queued: H0.L0/H0.L0  
**Supported Vendor IDs: None >> Supported Vendor IDs: none instead of**

**10415**  
Admin Status: Enable  
DPR Disconnect: N/A  
Peer Backoff Timer running:N/A

-----  
Peer Hostname: dra01.epc.mnc0xy.mcc404.3gppnetwork.org  
Local Hostname: 0004-diamproxy.MMEC001.MMEGI32000.MME.EPC.MNC0XY.MCC404.3GPPNETWORK.ORG  
Peer Realm: epc.mnc0XY.mcc404.3gppnetwork.org  
Local Realm: MME.epc.mnc0XY.mcc404.3gppnetwork.org  
Peer Address: 10.5.40.X:6000  
State: OPEN [SCTP]  
CPU: 2/2 Task: sessmgr-8  
Messages Out/Queued: H0.L0/H0.L0  
**Supported Vendor IDs: None >> Supported Vendor IDs: none instead of**

**10415**  
Admin Status: Enable  
DPR Disconnect: N/A  
Peer Backoff Timer running:N/A

-----  
Peer Hostname: dra01.epc.mnc0xy.mcc404.3gppnetwork.org  
Local Hostname: 0004-diamproxy.MMEC001.MMEGI32000.MME.EPC.MNC0XY.MCC404.3GPPNETWORK.ORG  
Peer Realm: epc.mnc0XY.mcc404.3gppnetwork.org  
Local Realm: MME.epc.mnc0XY.mcc404.3gppnetwork.org  
Peer Address: 10.5.40.X:6000  
State: OPEN [SCTP]  
CPU: 2/0 Task: sessmgr-15  
Messages Out/Queued: H0.L0/H0.L0  
**Supported Vendor IDs: None >> Supported Vendor IDs: none instead of**

**10415**  
Admin Status: Enable  
DPR Disconnect: N/A  
Peer Backoff Timer running:N/A

-----  
Peer Hostname: dra01.epc.mnc0xy.mcc404.3gppnetwork.org



```
Local Hostname: 0004-diamproxy.MMEC001.MMEGI32000.MME.EPC.MNC0XY.MCC404.3GPPNETWORK.ORG
Peer Realm: epc.mnc0XY.mcc404.3gppnetwork.org
Local Realm: MME.epc.mnc0XY.mcc404.3gppnetwork.org
Peer Address: 10.5.40.X:6000
State: OPEN [SCTP]
CPU: 2/0 Task: sessmgr-20
Messages Out/Queued: H0.L0/H0.L0
```

**Supported Vendor IDs: None**

**>> Supported Vendor IDs: none instead of**

**10415**

```
Admin Status: Enable
DPR Disconnect: N/A
Peer Backoff Timer running:N/A
```

-----  
Peer Hostname: dra01.epc.mnc0xy.mcc404.3gppnetwork.org

```
Local Hostname: 0004-diamproxy.MMEC001.MMEGI32000.MME.EPC.MNC0XY.MCC404.3GPPNETWORK.ORG
Peer Realm: epc.mnc0XY.mcc404.3gppnetwork.org
Local Realm: MME.epc.mnc0XY.mcc404.3gppnetwork.org
Peer Address: 10.5.40.X:6000
State: OPEN [SCTP]
CPU: 2/1 Task: sessmgr-27
Messages Out/Queued: H0.L0/H0.L0
```

**Supported Vendor IDs: None**

**>> Supported Vendor IDs: none instead of**

**10415**

```
Admin Status: Enable
DPR Disconnect: N/A
Peer Backoff Timer running:N/A
```

<additional outputs supressed>

## Solución

Parece que los "IDs utilizados" AVP del vendedor no están negociados con el indicador luminoso LED amarillo de la placa muestra gravedad menor 2 DPC y así que observan al error para ese indicador luminoso LED amarillo de la placa muestra gravedad menor solamente.

Según el RFC 3588,

**Utilizar-Vendedor-identificación AVP** - Esto se utiliza en los mensajes CER y CEA para informar al par que el remitente utiliza (un subconjunto de) el AVPs vendedor-específico definido por el vendedor identificado en este AVP.

**Vendedor-identificación AVP** - Conjuntamente con la Utilizar-Vendedor-identificación AVP, esto se pudo utilizar para saber qué atributos específicos del proveedor se pudieron enviar al par.

Para intercambiar las capacidades entre el par del diámetro y el cliente, este plan de acción se sugiere al proveedor de servicio.

El plan de acción es emigrar el indicador luminoso LED amarillo de la placa muestra gravedad menor 2 DPC con el indicador luminoso LED amarillo de la placa muestra gravedad menor espera 10. DPC.

```
[local]SGSN-MME-03# show diameter peers full peer-host dra01.epc.mnc0XY.mcc404.3gppnetwork.org
```

```
-----
Context: s6a Endpoint: HSS_DRA01
-----
```

```
Peer Hostname: dra01.epc.mnc0xy.mcc404.3gppnetwork.org
Local Hostname: 0004-diamproxy.MMEC001.MMEGI32000.MME.EPC.MNC0XY.MCC404.3GPPNETWORK.ORG
Peer Realm: epc.mnc0XY.mcc404.3gppnetwork.org
Local Realm: MME.epc.mnc0XY.mcc404.3gppnetwork.org
Peer Address: 10.5.40.X:6000
State: OPEN [SCTP]
CPU: 2/1 Task: sessmgr-4
Messages Out/Queued: H0.L0/H0.L0
```

```
Supported Vendor IDs: None >> Supported Vendor IDs: none instead of
10415
Admin Status: Enable
DPR Disconnect: N/A
Peer Backoff Timer running:N/A
-----
Peer Hostname: dra01.epc.mnc0xy.mcc404.3gppnetwork.org
Local Hostname: 0004-diamproxy.MMEC001.MMEGI32000.MME.EPC.MNC0XY.MCC404.3GPPNETWORK.ORG
Peer Realm: epc.mnc0XY.mcc404.3gppnetwork.org
Local Realm: MME.epc.mnc0XY.mcc404.3gppnetwork.org
Peer Address: 10.5.40.X:6000
State: OPEN [SCTP]
CPU: 2/2 Task: sessmgr-8
Messages Out/Queued: H0.L0/H0.L0
Supported Vendor IDs: None >> Supported Vendor IDs: none instead of
10415
Admin Status: Enable
DPR Disconnect: N/A
Peer Backoff Timer running:N/A
-----
Peer Hostname: dra01.epc.mnc0xy.mcc404.3gppnetwork.org
Local Hostname: 0004-diamproxy.MMEC001.MMEGI32000.MME.EPC.MNC0XY.MCC404.3GPPNETWORK.ORG
Peer Realm: epc.mnc0XY.mcc404.3gppnetwork.org
Local Realm: MME.epc.mnc0XY.mcc404.3gppnetwork.org
Peer Address: 10.5.40.X:6000
State: OPEN [SCTP]
CPU: 2/0 Task: sessmgr-15
Messages Out/Queued: H0.L0/H0.L0
Supported Vendor IDs: None >> Supported Vendor IDs: none instead of
10415
Admin Status: Enable
DPR Disconnect: N/A
Peer Backoff Timer running:N/A
-----
Peer Hostname: dra01.epc.mnc0xy.mcc404.3gppnetwork.org
Local Hostname: 0004-diamproxy.MMEC001.MMEGI32000.MME.EPC.MNC0XY.MCC404.3GPPNETWORK.ORG
Peer Realm: epc.mnc0XY.mcc404.3gppnetwork.org
Local Realm: MME.epc.mnc0XY.mcc404.3gppnetwork.org
Peer Address: 10.5.40.X:6000
State: OPEN [SCTP]
CPU: 2/0 Task: sessmgr-20
Messages Out/Queued: H0.L0/H0.L0
Supported Vendor IDs: None >> Supported Vendor IDs: none instead of
10415
Admin Status: Enable
DPR Disconnect: N/A
Peer Backoff Timer running:N/A
-----
Peer Hostname: dra01.epc.mnc0xy.mcc404.3gppnetwork.org
Local Hostname: 0004-diamproxy.MMEC001.MMEGI32000.MME.EPC.MNC0XY.MCC404.3GPPNETWORK.ORG
Peer Realm: epc.mnc0XY.mcc404.3gppnetwork.org
Local Realm: MME.epc.mnc0XY.mcc404.3gppnetwork.org
Peer Address: 10.5.40.X:6000
State: OPEN [SCTP]
CPU: 2/1 Task: sessmgr-27
Messages Out/Queued: H0.L0/H0.L0
Supported Vendor IDs: None >> Supported Vendor IDs: none instead of
10415
Admin Status: Enable
DPR Disconnect: N/A
Peer Backoff Timer running:N/A
```

<additional outputs suppressed>

El proveedor de servicio realizó la migración del indicador luminoso LED amarillo de la placa muestra gravedad menor 2 DPC con el indicador luminoso LED amarillo de la placa muestra gravedad menor espera 10. DPC.

Fije la actividad, el vendedor apoyado IDs(10415) aparecido para ser aceptable para el indicador luminoso LED amarillo de la placa muestra gravedad menor 10 con el HS-par respectivo y el ASR KPI parecía ser aceptable también.

```
[local]SGSN-MME-03# show diameter peers full peer-host dra01.epc.mnc0XY.mcc404.3gppnetwork.org
```

```
-----  
Context: s6a Endpoint: HSS_DRA01  
-----
```

```
Peer Hostname: dra01.epc.mnc0xy.mcc404.3gppnetwork.org  
Local Hostname: 0004-diamproxy.MMEC001.MMEGI32000.MME.EPC.MNC0XY.MCC404.3GPPNETWORK.ORG  
Peer Realm: epc.mnc0XY.mcc404.3gppnetwork.org  
Local Realm: MME.epc.mnc0XY.mcc404.3gppnetwork.org  
Peer Address: 10.5.40.X:6000  
State: OPEN [SCTP]  
CPU: 10/1                               Task: sessmgr-4  
Messages Out/Queued: H0.L0/H0.L0  
Supported Vendor IDs: 10415                >> Supported Vendor IDs: 10415  
Admin Status: Enable  
DPR Disconnect: N/A  
Peer Backoff Timer running:N/A
```

```
-----  
Peer Hostname: dra01.epc.mnc0xy.mcc404.3gppnetwork.org  
Local Hostname: 0004-diamproxy.MMEC001.MMEGI32000.MME.EPC.MNC0XY.MCC404.3GPPNETWORK.ORG  
Peer Realm: epc.mnc0XY.mcc404.3gppnetwork.org  
Local Realm: MME.epc.mnc0XY.mcc404.3gppnetwork.org  
Peer Address: 10.5.40.X:6000  
State: OPEN [SCTP]  
CPU: 10/0                               Task: sessmgr-15  
Messages Out/Queued: H0.L0/H0.L0  
Supported Vendor IDs: 10415                >> Supported Vendor IDs: 10415  
Admin Status: Enable  
DPR Disconnect: N/A  
Peer Backoff Timer running:N/A
```

```
-----  
Peer Hostname: dra01.epc.mnc0xy.mcc404.3gppnetwork.org  
Local Hostname: 0004-diamproxy.MMEC001.MMEGI32000.MME.EPC.MNC0XY.MCC404.3GPPNETWORK.ORG  
Peer Realm: epc.mnc0XY.mcc404.3gppnetwork.org  
Local Realm: MME.epc.mnc0XY.mcc404.3gppnetwork.org  
Peer Address: 10.5.40.X:6000  
State: OPEN [SCTP]  
CPU: 10/1                               Task: sessmgr-27  
Messages Out/Queued: H0.L0/H0.L0  
Supported Vendor IDs: 10415                >> Supported Vendor IDs: 10415  
Admin Status: Enable  
DPR Disconnect: N/A  
Peer Backoff Timer running:N/A
```

```
-----  
Peer Hostname: dra01.epc.mnc0xy.mcc404.3gppnetwork.org  
Local Hostname: 0004-diamproxy.MMEC001.MMEGI32000.MME.EPC.MNC0XY.MCC404.3GPPNETWORK.ORG  
Peer Realm: epc.mnc0XY.mcc404.3gppnetwork.org  
Local Realm: MME.epc.mnc0XY.mcc404.3gppnetwork.org  
Peer Address: 10.5.40.X:6000  
State: OPEN [SCTP]  
CPU: 10/2                               Task: sessmgr-29  
Messages Out/Queued: H0.L0/H0.L0  
Supported Vendor IDs: 10415                >> Supported Vendor IDs: 10415  
Admin Status: Enable  
DPR Disconnect: N/A
```

Peer Backoff Timer running:N/A

<additional outputs suppressed>

Los IDs utilizados del vendedor deben estar de valor '10415' cuando la conexión de peer del diámetro se establece entre el MME y los HS para intercambiar los mensajes operativos del diámetro.