

PGW2200软交换机ITP-SCTP纠错方案

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简介

本文描述排除故障为the Cisco公共交换电话网(PSTN)网关(PGW) 2200软交换在呼叫控制和发信号模式的流控制传输协议(SCTP)和在Cisco IP中转点(ITP)。SCTP设计传输在IP网络的PSTN信令消息。协议在[RFC 2960](#)定义，并且[RFC 3286](#)提供介绍文本RFC。

先决条件

要求

本文档的读者应掌握以下这些主题的相关知识：

- [Cisco Media Gateway Controller Software版本9](#)
- [初学者的SCTP](#)
- [RFC 2960](#)

- SCTP

[使用的组件](#)

本文档中的信息根据Cisco PGW 2200版本9.4(1)及以后。

本文档中的信息都是基于特定实验室环境中的设备编写的。本文档中使用的所有设备最初均采用原始（默认）配置。如果您使用的是真实网络，请确保您已经了解所有命令的潜在影响。

[规则](#)

有关文档规则的详细信息，请参阅 [Cisco 技术提示规则](#)。

[设计注意事项](#)

通常，信令系统7 (SS7)网络为一个特定的服务级别(GOS)设计。此方案，参考的ITU规格E.723，关注某些考虑事项保证端到端GOS，当您设计SS7网络。

ITU规格E.723文档讨论目标端到端Initial Address Message (IAM)传输时间(一种方式) 0.9秒，并且包括其他详细信息。

通常，往返时间(RTT)少于在两SS7-over-IP (SS7oIP)节点之间的200 – 300毫秒放置性能在多数需求内上层的SS7应用程序。RTT可以超出此，但是应该评估网络的总体设计保证多跳不超出应用层计时器。

[排除故障ITP-SCTP](#)

客户端服务器信令网关(SG)体系结构(SG是服务器;PGW2200是客户端。) SCTP消息在ITP，请发出**debug命令**：

```
v2650-2# debug ip sctp war SCTP: Turning warnings debugging on v2650-2# debug ip sctp signal
SCTP: Turning signal debugging on v2650-2# debug ip sctp state SCTP: Turning state debugging on
v2650-2# debug ip sctp init
```

在PGW2200，一个关联在服务范围外。带来此关联在使用中用人机语言(MML)命令**set-association:m3ua-assoc2:IS,confirm**，并且跟随在ITP的**调试**发现不同的状态(显示黑体字)。

```
mgc-bru-14 mml> rtrv-association:all MGC-01 - Media Gateway Controller 2004-03-18 19:04:23.597
MET M RTRV "m3ua-assoc1:IS" "m3ua-assoc2:OOS,COOS" ; mgc-bru-14 mml> set-
association:m3ua-assoc2:IS,confirm MGC-01 - Media Gateway Controller 2004-03-18 19:05:10.286
MET M COMPLD "m3ua-assoc2" ; mgc-bru-14 mml>
```

要帮助排除故障SCTP和消息传输部分3级用户适应(M3UA)问题在PGW2200和ITP，下面是说明(带有**黑体项目**)信号流和调试。

注意： 信号流在[初学者的SCTP](#)描述。

注意： 下面某些的代码在多条线路显示由于空间限制。

```
Mar 18 18:05:10.413: SCTP: Process Init Mar 18 18:05:10.413: SCTP: INIT_CHUNK, len 34 Mar 18
18:05:10.413: SCTP: Initiate Tag: 6C0C883A, Initial TSN: 6C0C883A, rwnd 18000 Mar 18
18:05:10.413: SCTP: Streams Inbound: 128, Outbound: 17 Mar 18 18:05:10.413: SCTP: IP Addr:
10.48.84.146 Mar 18 18:05:10.413: SCTP: Supported addr types: 5 Mar 18 18:05:10.413: SCTP: Assoc
```

(new): **Send InitAck** Mar 18 18:05:10.413: SCTP: INIT_ACK_CHUNK, len 108 Mar 18 18:05:10.413: SCTP: Initiate Tag: 446E8EA0, Initial TSN: 446E8EA0, rwnd 64000 Mar 18 18:05:10.413: SCTP: Streams Inbound: 17, Outbound: 2 Mar 18 18:05:10.413: SCTP: Responder cookie len 80 Mar 18 18:05:10.417: SCTP: IP Addr: 10.48.84.176 Mar 18 18:05:10.417: SCTP: **Assoc (new): Process Cookie** Mar 18 18:05:10.417: SCTP: COOKIE_ECHO_CHUNK, len 80 Mar 18 18:05:10.417: SCTP: Assoc 66: Adding additional address (10.48.84.146) as source and destination Mar 18 18:05:10.918: SCTP: **Assoc 66: Send CookieAck** Mar 18 18:05:10.918: SCTP: COOKIE_ACK_CHUNK Mar 18 18:05:10.922: SCTP: Assoc 42: snmpID:66 state CLOSED -> **ESTABLISHED** currEstab=1 Mar 18 18:05:10.922: SCTP: Assoc 42: tCurrEstab=1 currEstab=2 Mar 18 18:05:10.922: SCTP: **Assoc 66: Sent ASSOC_UP signal for INCOMING_ASSOC** Mar 18 18:05:10.926: xuaSctpInboundPeerUp(Entry): InstanceId = 1, AssocId = 66 Mar 18 18:05:10.926: CS7 XUA MGMT API: aspm_find_aspCb_by_assocId: assocId = 1100, pAspCb = 0x0 Mar 18 18:05:10.926: CS7 XUA MGMT API: aspm_validate_assoc: assocId = 66, remotePort = 2905, remoteIpAddr = 10.48.84.146 0.0.0.0 0.0.0.0 0.0.0.0, localPort = 2905, retCode = 0 Mar 18 18:05:10.926: xuaSctpSetAddrParms(Entry): assocId = 66 Mar 18 18:05:10.926: xuaSctpSetAddrParms: keepAlive = 1, keepAliveTimeout = 30000 Mar 18 18:05:10.926: xuaSctpSetAddrParms: tos = 0, maxPathRexmit = 4 Mar 18 18:05:10.926: xuaSctpSetAddrParms: IP addr 10.48.84.146 for assocId 66 set to active Mar 18 18:05:10.926: xuaSctpInboundPeerUp: **SCTP_ASSOC_UP** processing complete PGW-SW3-BR14(66) s=10.48.84.176 : 2905, d=10.48.84.146 : 2905 Mar 18 18:05:10.926: CS7 XUA MGMT API: aspm_find_aspCb_by_assocId: assocId = 66, pAspCb = 0x81AD75BC Mar 18 18:05:10.930: xuaGetPacket: getbuffer returned buffer = 8154E958 Mar 18 18:05:10.930: xuaGetPacket: sctp_receive returned datalen(8) from stream(0) Mar 18 18:05:10.930: CS7 XUA MGMT API: aspm_find_aspCb_by_assocId: assocId = 66, pAspCb = 0x81AD75BC Mar 18 18:05:10.930: CS7 XUA MGMT API: aspm_find_aspCb_by_assocId: assocId = 66, pAspCb = 0x81AD75BC Mar 18 18:05:10.930: CS7 XUA MGMT API: aspm_get_assoc_protocol: assocId = 66, protocol = 1 Mar 18 18:05:10.930: **CS7 XUA PACKET RECEIVED FROM PGW-SW3-BR14: Message: Class = ASPSM, Type = ASPUP, Length = 8** Mar 18 18:05:10.930: No Message Parameters Mar 18 18:05:10.930: CS7 XUA MGMT STATE: asp_state_chg_event: ASP PGW-SW3-BR14: old state = ASP_DOWN, new state = ASP_INACTIVE, AS = PGW-SW3 Mar 18 18:05:10.930: **CS7 XUA MGMT STATE: update_as_state: AS PGW-SW3: old state = AS_DOWN, new state = AS_INACTIVE** Mar 18 18:05:10.930: CS7 XUA MGMT API: aspm_find_dpc_node: dpc = 1.6.1, pointCode = 0x8184E4F4 Mar 18 18:05:10.930: CS7 XUA MGMT API: aspm_find_dpc_node: dpc = 1.6.1, pointCode = 0x8184E4F4 Mar 18 18:05:10.930: CS7 XUA MGMT API: aspm_find_aspCb_by_assocId: assocId = 66, pAspCb = 0x81AD75BC Mar 18 18:05:10.930: xua_send: assocId = 66, streamNum = 0, pak = 0x8154E958, routingContext = 0, freeOnErr = 1 Mar 18 18:05:10.930: **CS7 XUA PACKET SENT TO PGW-SW3-BR14: Message: Class = ASPSM, Type = ASPUP ACK, Length = 8** Mar 18 18:05:10.930: No Message Parameters Mar 18 18:05:10.930: CS7 XUA MGMT API: aspm_find_aspCb_by_assocId: assocId = 66, pAspCb = 0x81AD75BC Mar 18 18:05:10.930: xuaGetPacket: getbuffer returned buffer = 8154F4C8 Mar 18 18:05:10.930: xuaGetPacket: sctp_receive returned datalen(0) from stream(0) Mar 18 18:05:10.934: CS7 XUA MGMT API: aspm_find_asCb_by_routingContext: routingContext = 10, pAsCb = 0x81AE18B8 Mar 18 18:05:10.934: CS7 XUA MGMT API: aspm_find_aspCb_by_assocId: assocId = 66, pAspCb = 0x81AD75BC Mar 18 18:05:10.934: xua_send: assocId = 66, streamNum = 0, pak = 0x8154A794, routingContext = 0, freeOnErr = 1 Mar 18 18:05:10.934: **CS7 XUA PACKET SENT TO PGW-SW3-BR14: Message: Class = MGMT, Type = NTFY, Length = 24** Mar 18 18:05:10.934: Parameter: Tag = STATUS, Length = 8 Mar 18 18:05:10.934: Value = 0x00010002 Mar 18 18:05:10.934: Parameter: **Tag = ROUTING CONTEXT**, Length = 8 Mar 18 18:05:10.934: **Value = 0x0000000A** Mar 18 18:05:10.950: SCTP: Process Init Mar 18 18:05:10.950: SCTP: INIT_CHUNK, len 34 Mar 18 18:05:10.950: SCTP: Initiate Tag: 6FC2653D, Initial TSN: 6FC2653D, rwnd 18000 Mar 18 18:05:10.950: SCTP: Streams Inbound: 128, Outbound: 17 Mar 18 18:05:10.950: SCTP: IP Addr: 10.48.84.181 Mar 18 18:05:10.950: SCTP: Supported addr types: 5 Mar 18 18:05:10.950: SCTP: Assoc (new): **Send InitAck** Mar 18 18:05:10.950: SCTP: INIT_ACK_CHUNK, len 108 Mar 18 18:05:10.950: SCTP: Initiate Tag: 86E5560B, Initial TSN: 86E5560B, rwnd 64000 Mar 18 18:05:10.950: SCTP: Streams Inbound: 17, Outbound: 2 Mar 18 18:05:10.950: SCTP: Responder cookie len 80 Mar 18 18:05:10.950: SCTP: IP Addr: 10.48.84.176 Mar 18 18:05:10.954: SCTP: Assoc (new): **Process Cookie** Mar 18 18:05:10.954: SCTP: COOKIE_ECHO_CHUNK, len 80 Mar 18 18:05:10.954: SCTP: Assoc 67: Adding additional address (10.48.84.181) as source and destination Mar 18 18:05:11.455: SCTP: Assoc 67: **Send CookieAck** Mar 18 18:05:11.455: SCTP: COOKIE_ACK_CHUNK Mar 18 18:05:11.455: SCTP: Assoc 43: snmpID:67 state CLOSED -> **ESTABLISHED** currEstab=2 Mar 18 18:05:11.459: SCTP: Assoc 43: tCurrEstab=1 currEstab=3 Mar 18 18:05:11.459: SCTP: **Assoc 67: Sent ASSOC_UP signal for INCOMING_ASSOC** Mar 18 18:05:11.463: xuaSctpInboundPeerUp(Entry): InstanceId = 1, AssocId = 67 Mar 18 18:05:11.463: CS7 XUA MGMT API: aspm_find_aspCb_by_assocId: assocId = 1100, pAspCb = 0x0 Mar 18 18:05:11.463: **CS7 XUA MGMT API: aspm_validate_assoc: assocId = 67, remotePort = 2905, remoteIpAddr = 10.48.84.181 0.0.0.0 0.0.0.0 0.0.0.0, localPort = 2905, retCode = 0** Mar 18 18:05:11.463: xuaSctpSetAddrParms(Entry): assocId = 67 Mar 18 18:05:11.463: xuaSctpSetAddrParms: keepAlive = 1, keepAliveTimeout = 30000 Mar 18 18:05:11.463: xuaSctpSetAddrParms: tos = 0, maxPathRexmit = 4 Mar 18 18:05:11.463: **xuaSctpSetAddrParms: IP addr 10.48.84.181 for assocId 67 set to active** Mar

18 18:05:11.463: xuaSctpInboundPeerUp: SCTP_ASSOC_UP processing complete PGW-SW3-BR19(67)
s=10.48.84.176 : 2905, d=10.48.84.181 : 2905 Mar 18 18:05:11.463: CS7 XUA MGMT API:
aspm_find_aspCb_by_assocId: assocId = 67, pAspCb = 0x81AF2DB0 Mar 18 18:05:11.463: xuaGetPacket:
getbuffer returned buffer = 818AA374 Mar 18 18:05:11.463: xuaGetPacket: sctp_receive returned
datalen(8) from stream(0) Mar 18 18:05:11.463: CS7 XUA MGMT API: aspm_find_aspCb_by_assocId:
assocId = 67, pAspCb = 0x81AF2DB0 Mar 18 18:05:11.463: CS7 XUA MGMT API:
aspm_find_aspCb_by_assocId: assocId = 67, pAspCb = 0x81AF2DB0 Mar 18 18:05:11.463: CS7 XUA MGMT
API: aspm_get_assoc_protocol: assocId = 67, protocol = 1 Mar 18 18:05:11.467: CS7 XUA PACKET
RECEIVED FROM PGW-SW3-BR19: Message: Class = ASPSM, Type = ASPUP, Length = 8 Mar 18
18:05:11.467: No Message Parameters Mar 18 18:05:11.467: CS7 XUA MGMT STATE:
asp_state_chg_event: ASP PGW-SW3-BR19: old state = ASP_DOWN, new state = ASP_INACTIVE, AS = PGW-
SW3 Mar 18 18:05:11.467: CS7 XUA MGMT API: aspm_find_dpc_node: dpc = 1.6.1, pointCode =
0x8184E4F4 Mar 18 18:05:11.467: CS7 XUA MGMT API: aspm_find_aspCb_by_assocId: assocId = 67,
pAspCb = 0x81AF2DB0 Mar 18 18:05:11.467: xua_send: assocId = 67, streamNum = 0, pak =
0x818AA374, routingContext = 0, freeOnErr = 1 Mar 18 18:05:11.467: CS7 XUA PACKET SENT TO PGW-
SW3-BR19: Message: Class = ASPSM, Type = ASPUP ACK, Length = 8 Mar 18 18:05:11.467: No Message
Parameters Mar 18 18:05:11.467: CS7 XUA MGMT API: aspm_find_aspCb_by_assocId: assocId = 67,
pAspCb = 0x81AF2DB0 Mar 18 18:05:11.467: xuaGetPacket: getbuffer returned buffer = 818AA92C Mar
18 18:05:11.467: xuaGetPacket: sctp_receive returned datalen(0) from stream(0) Mar 18
18:05:11.487: xuaGetPacket: getbuffer returned buffer = 8154E958 Mar 18 18:05:11.487:
xuaGetPacket: sctp_receive returned datalen(16) from stream(0) Mar 18 18:05:11.487: CS7 XUA MGMT
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MGMT API: aspm_find_aspCb_by_assocId: assocId = 66, pAspCb = 0x81AD75BC Mar 18 18:05:11.487: CS7
XUA MGMT API: aspm_get_assoc_protocol: assocId = 66, protocol = 1 Mar 18 18:05:11.487: CS7 XUA
PACKET RECEIVED FROM PGW-SW3-BR14: Message: Class = ASPTM, Type = ASPAC, Length = 16 Mar 18
18:05:11.487: Parameter: Tag = TRAFFIC MODE TYPE, Length = 8 Mar 18 18:05:11.487: Value =
0x00000001 Mar 18 18:05:11.487: CS7 XUA MGMT API: aspm_find_asCb_by_routingContext:
routingContext = 10, pAsCb = 0x81AE18B8 Mar 18 18:05:11.487: CS7 XUA MGMT STATE:
asp_state_chg_event: ASP PGW-SW3-BR14: **old state = ASP_INACTIVE, new state = ASP_ACTIVE, AS =
PGW-SW3** Mar 18 18:05:11: %CS7XUA-5-ASPSTATE: ASP PGW-SW3-BR14 is active in AS PGW-SW3 Mar 18
18:05:11.487: CS7 XUA MGMT STATE: update_as_state: AS PGW-SW3: **old state = AS_INACTIVE, new
state = AS_ACTIVE** Mar 18 18:05:11: %CS7XUA-5-ASSTATE: AS PGW-SW3 is active Mar 18 18:05:11.487:
CS7 XUA MGMT API: aspm_find_dpc_node: dpc = 1.6.1, pointCode = 0x8184E4F4 Mar 18 18:05:11.487:
xua_dpc_notify: dpc=1.6.1, oldStatus=M3UA inactive, newStatus=M3UA active Mar 18 18:05:11.487:
xua_dpc_notify: Sending TFA for dpc=831 Mar 18 18:05:11.491: cs7_xua_process_L3_dest_accessible:
TFA received for destination 1.6.1 Mar 18 18:05:11.491: CS7 XUA MGMT POINTCODE:
update_dpc_status: called xua_dpc_notify() for dpc 1.6.1 status change, newStatus =
DPC_M3UA_ACTIVE, retcode = 1 Mar 18 18:05:11.491: CS7 XUA MGMT POINTCODE: update_dpc_status: dpc
1.6.1 status change: **old status = DPC_M3UA_INACTIVE, new status = DPC_M3UA_ACTIVE** Mar 18
18:05:11: %CS7XUA-5-XUAPCSTATUS: XUA PC 1.6.1 is M3UA active Mar 18 18:05:11.491: CS7 XUA MGMT
API: aspm_find_dpc_node: dpc = 1.6.1, pointCode = 0x8184E4F4 Mar 18 18:05:11.491: CS7 XUA MGMT
API: aspm_find_aspCb_by_assocId: assocId = 66, pAspCb = 0x81AD75BC Mar 18 18:05:11.491:
xua_send: assocId = 66, streamNum = 0, pak = 0x8154A794, routingContext = 0, freeOnErr = 1 Mar
18 18:05:11.491: CS7 XUA PACKET SENT TO PGW-SW3-BR14: Message: Class = ASPTM, **Type = ASPAC ACK**,
Length = 24 Mar 18 18:05:11.491: Parameter: Tag = TRAFFIC MODE TYPE, Length = 8 Mar 18
18:05:11.491: Value = 0x00000001 Mar 18 18:05:11.491: Parameter: Tag = ROUTING CONTEXT, Length =
8 Mar 18 18:05:11.491: Value = 0x0000000A Mar 18 18:05:11.491: xuaGetPacket: getbuffer returned
buffer = 8154E958 Mar 18 18:05:11.491: xuaGetPacket: sctp_receive returned datalen(0) from
stream(0) Mar 18 18:05:11.495: CS7 XUA MGMT API: aspm_find_asCb_by_routingContext:
routingContext = 10, pAsCb = 0x81AE18B8 Mar 18 18:05:11.495: CS7 XUA MGMT API:
aspm_find_aspCb_by_assocId: assocId = 66, pAspCb = 0x81AD75BC Mar 18 18:05:11.495: xua_send:
assocId = 66, streamNum = 0, pak = 0x818A72D8, routingContext = 0, freeOnErr = 1 Mar 18
18:05:11.495: CS7 XUA PACKET SENT TO PGW-SW3-BR14: Message: Class = MGMT, **Type = NTFY**, Length =
24 Mar 18 18:05:11.495: Parameter: Tag = STATUS, Length = 8 Mar 18 18:05:11.495: Value =
0x00010003 Mar 18 18:05:11.495: Parameter: Tag = ROUTING CONTEXT, Length = 8 Mar 18
18:05:11.495: Value = 0x0000000A Mar 18 18:05:11.495: CS7 XUA MGMT API:
aspm_find_asCb_by_routingContext: routingContext = 10, pAsCb = 0x81AE18B8 Mar 18 18:05:11.495:
CS7 XUA MGMT API: aspm_find_aspCb_by_assocId: assocId = 67, pAspCb = 0x81AF2DB0 Mar 18
18:05:11.495: xua_send: assocId = 67, streamNum = 0, pak = 0x815479D4, routingContext = 0,
freeOnErr = 1 Mar 18 18:05:11.495: CS7 XUA PACKET SENT TO PGW-SW3-BR19: Message: Class = MGMT,
Type = NTFY, Length = 24 Mar 18 18:05:11.495: Parameter: Tag = STATUS, Length = 8 Mar 18
18:05:11.499: Value = 0x00010003 Mar 18 18:05:11.499: Parameter: Tag = ROUTING CONTEXT, Length =
8 Mar 18 18:05:11.499: Value = 0x0000000A Mar 18 18:05:11.499: xuaProcessMgmtQ (Entry) Mar 18
18:05:11.499: xua_process_mgmt_event: Event DAVA for 1.6.1 Mar 18 18:05:11.499: CS7 XUA MGMT

API: aspm_get_active_aspCb: protocol = 1, pPreviousAspCb = 0x0, pAspCb = 0x81AD75BC Mar 18 18:05:11.499: CS7 XUA MGMT POINTCODE: cs7_aspm_xua_dpc: dpc 1.6.1 matched: **status = DPC_M3UA_ACTIVE** Mar 18 18:05:11.499: CS7 XUA MGMT API: cs7_aspm_xua_dpc: dpc = 1.6.1, dpcStatus = 1 Mar 18 18:05:11.499: CS7 XUA MGMT API: aspm_find_aspCb_by_assocId: assocId = 66, pAspCb = 0x81AD75BC Mar 18 18:05:11.499: xua_send: assocId = 66, streamNum = 0, pak = 0x81549F00, routingContext = 0, freeOnErr = 1 Mar 18 18:05:11.503: **CS7 XUA PACKET SENT TO PGW-SW3-BR14: Message: Class = SSNM, Type = DAVA, Length = 24** Mar 18 18:05:11.503: Parameter: Tag = AFFECTED POINT CODE, Length = 8 Mar 18 18:05:11.503: Value = 0x00000831 (1.6.1) Mar 18 18:05:11.503: Parameter: Tag = ROUTING CONTEXT, Length = 8 Mar 18 18:05:11.503: Value = 0x0000000A Mar 18 18:05:11.503: xua_process_mgmt_event: Send event DAVA for 1.6.1 to asp PGW-SW3-BR14 Mar 18 18:05:11.503: CS7 XUA MGMT API: aspm_get_active_aspCb: protocol = 1, pPreviousAspCb = 0x81AD75BC, pAspCb = 0x0 Mar 18 18:05:11.503: xua_process_mgmt_event: Event DAVA for 1.6.1 Mar 18 18:05:11.599: xuaGetPacket: getbuffer returned buffer = 818AA374 Mar 18 18:05:11.599: xuaGetPacket: sctp_receive returned datalen(8) from stream(0) Mar 18 18:05:11.599: CS7 XUA MGMT API: aspm_find_aspCb_by_assocId: assocId = 67, pAspCb = 0x81AF2DB0 Mar 18 18:05:11.599: CS7 XUA MGMT API: aspm_find_aspCb_by_assocId: assocId = 67, pAspCb = 0x81AF2DB0 Mar 18 18:05:11.599: CS7 XUA MGMT API: aspm_get_assoc_protocol: assocId = 67, protocol = 1 Mar 18 18:05:11.599: CS7 XUA PACKET RECEIVED FROM PGW-SW3-BR19: Message: Class = ASPTM, **Type = ASPIA**, Length = 8 Mar 18 18:05:11.599: No Message Parameters Mar 18 18:05:11.599: CS7 XUA MGMT API: aspm_find_asCb_by_routingContext: routingContext = 10, pAsCb = 0x81AE18B8 Mar 18 18:05:11.603: CS7 XUA MGMT API: aspm_find_dpc_node: dpc = 1.6.1, pointCode = 0x8184E4F4 Mar 18 18:05:11.603: CS7 XUA MGMT API: aspm_find_aspCb_by_assocId: assocId = 67, pAspCb = 0x81AF2DB0 Mar 18 18:05:11.603: xua_send: assocId = 67, streamNum = 0, pak = 0x815479D4, routingContext = 0, freeOnErr = 1 Mar 18 18:05:11.603: CS7 XUA PACKET SENT TO PGW-SW3-BR19: Message: Class = ASPTM, **Type = ASPIA ACK**, Length = 16 Mar 18 18:05:11.603: Parameter: Tag = ROUTING CONTEXT, Length = 8 Mar 18 18:05:11.603: Value = 0x0000000A Mar 18 18:05:11.603: xuaGetPacket: getbuffer returned buffer = 818AA374 Mar 18 18:05:11.603: xuaGetPacket: sctp_receive returned datalen(0) from stream(0) Mar 18 18:05:11.603: xuaGetPacket: getbuffer returned buffer = 818AA374 Mar 18 18:05:11.607: xuaGetPacket: sctp_receive returned datalen(24) from stream(0) Mar 18 18:05:11.607: CS7 XUA MGMT API: aspm_find_aspCb_by_assocId: assocId = 66, pAspCb = 0x81AD75BC Mar 18 18:05:11.607: CS7 XUA MGMT API: aspm_find_aspCb_by_assocId: assocId = 66, pAspCb = 0x81AD75BC Mar 18 18:05:11.607: CS7 XUA MGMT API: aspm_get_assoc_protocol: assocId = 66, protocol = 1 Mar 18 18:05:11.607: CS7 XUA PACKET RECEIVED FROM PGW-SW3-BR14: Message: Class = SSNM, **Type = DAUD**, Length = 24 Mar 18 18:05:11.607: Parameter: Tag = ROUTING CONTEXT, Length = 8 Mar 18 18:05:11.607: Value = 0x0000000A Mar 18 18:05:11.607: Parameter: Tag = AFFECTED POINT CODE, Length = 8 Mar 18 18:05:11.607: Value = 0x00000851 (1.10.1) Mar 18 18:05:11.607: xua_daud_msg: Incoming- pak(818AA374) size(24) Mar 18 18:05:11.607: xua_daud_msg: DAUD received from PGW-SW3-BR14 - dpc(851) mask(0) Mar 18 18:05:11.607: CS7 XUA MGMT API: cs7_aspm_xua_dpc: dpc = 1.10.1, dpcStatus = 0 Mar 18 18:05:11.607: CS7 XUA MGMT API: cs7_aspm_xua_dpc: dpc = 1.10.1, dpcStatus = 0 Mar 18 18:05:11.607: CS7 XUA MGMT API: cs7_aspm_xua_dpc: dpc = 1.10.1, dpcStatus = 0 Mar 18 18:05:11.607: CS7 XUA MGMT API: aspm_find_aspCb_by_assocId: assocId = 66, pAspCb = 0x81AD75BC Mar 18 18:05:11.607: xua_send: assocId = 66, streamNum = 0, pak = 0x81549F00, routingContext = 0, freeOnErr = 1 Mar 18 18:05:11.607: CS7 XUA PACKET SENT TO PGW-SW3-BR14: Message: Class = SSNM, **Type = DAVA**, Length = 24 Mar 18 18:05:11.607: Parameter: Tag = AFFECTED POINT CODE, Length = 8 Mar 18 18:05:11.611: Value = 0x00000851 (1.10.1) Mar 18 18:05:11.611: Parameter: Tag = ROUTING CONTEXT, Length = 8 Mar 18 18:05:11.611: Value = 0x0000000A Mar 18 18:05:11.611: xuaGetPacket: getbuffer returned buffer = 818AA374 Mar 18 18:05:11.611: xuaGetPacket: sctp_receive returned datalen(0) from stream(0) Mar 18 18:05:12.428: cs7_xua_is_available_xua_dpc: dpc=80A Mar 18 18:05:12.428: CS7 XUA MGMT API: cs7_aspm_xua_dpc: dpc = 1.1.2, dpcStatus = 0 Mar 18 18:05:12.973: cs7_xua_is_available_xua_dpc: dpc=80A Mar 18 18:05:12.973: CS7 XUA MGMT API: cs7_aspm_xua_dpc: dpc = 1.1.2, dpcStatus = 0 Mar 18 18:05:18.178: cs7_xua_is_available_xua_dpc: dpc=80A

SCTP和M3UA错误处理

| 消息类型 | 说明 |
|---------------|--|
| 有效载荷数据 | 包含SS7 MTP用户协议数据，是an MTP-TRANSFER原始，包括完整MTP3路由标签。 |
| 不可用的目的地(DUNA) | 用于发信号到该的辅助信号路径(ASP)目的地不可用。类似于禁止的MTP转移。 |

| | |
|------------------------------|--------------------------------|
| 目的地联机 (DAVA) | 用于表明到ASP目的地是可用的。类似于允许的MTP转移。 |
| 目的地审计 (DAUD) | 用于从可用性SG SS7路由的状况或拥塞请求。 |
| SS7网络拥塞 (SCON) | 用于指示SG的拥塞。 |
| 不可用目的地的零件(DUPU) | 发送由SG表明远端对等体MTP3用户不可用。 |
| 限制的目的地 (DRST) | 发送对表明的ASP SS7目的地限制。类似于MTP。 |
| ASP (ASPUP) | 此消息用于表明到SG ASP是UP，运行和准备收到相关消息。 |
| ASP Ack | 确认ASP消息。 |
| 下来ASP (ASPDN) | 表明对SG ASP不准备收到流量。 |
| 下来ASP Ack | 确认ASP断开的信息。 |
| 注册请求(REG REQ) | 发送由ASP对SG和过去常常注册与SG的路由密钥。 |
| 注册答复 | 用于确认注册请求。 |
| Deregistration 请求(DEREG REQ) | 用于发信号SG注销登记路由密钥。 |
| Deregistration 答复(残渣 RSP) | 用于确认Deregistration请求。 |
| ASP激活 (ASPAC) | 指示ASP当前是活跃并且准备接收流量。 |
| ASP激活Ack | 用于确认ASP有源消息。 |
| 非激活的ASP (ASPIA) | 用于表明ASP去非激活模式。 |
| ASP非激活 Ack | 发送由SG确认非激活的ASP。 |
| 检测信号(贝亚) | 检测信号消息。 |
| 检测信号Ack (Beat-Ack) | 确认检测信号消息。 |
| 通知(NTFY) | 事件的提供自治征兆对M3UA对等体的。 |

M3UA错误消息处理

| 错误代码 | 原因 | 操作 |
|------|-------------------------------------|----------------|
| 无效版 | A用于通知ASP SG不支持指定的版本。应该只接收此错误以回应ASP上 | 目前，有M3UA仅单个版本。 |

| | | |
|------------|---|---|
| 本 | 请求发送对SG。 | |
| 不支持的信息分类 | 指示对SG或ASP消息接收与无效消息信息分类所有。 | 当ASP收到与不支持的信息分类时的一个消息，在错误消息的诊断参数忽略消息，安置报头，并且传送与此错误代码的错误消息。当接收此错误消息后，它被记录。 |
| 不支持的消息类型 | 指示对SG或ASP消息接收与无效消息类型。 | 同不支持的信息分类一样，上述。 |
| 不支持的流量处理模式 | ASP通知ASP接收消息包含无效的数据流处理类型A。C。 | 当接收此错误消息后，ASP应该生成日志条目和由层管理回拨提供配置不匹配的通知。 |
| 意外消息 | | 发送的，当消息意外地时接收(即ASP不在活动状态或ASP在故障状态，并且ASP激活接收)。 |
| 协议错误 | | 已登录，如果接收。发送为一般协议错误。 |
| 无效数据流标识符 | 发送由对等体，当消息用一个无效数据流标识符接收。当管理消息在数据流传送其他然后数据流0时，这发生。消息的接收方在无效数据流的应该丢弃消息。 | 当此消息接收时，代码错误很可能出现。当此消息接收时，在有效的应该再传送信息，并且应该记录错误。 |
| 拒绝—管理阻塞 | ASP发送由SG，当ASP上或ASP操作接收时和管理阻塞一些表发生。ASP操作 | 已登录，如果接收。如果首选的状态是UP，ASP继续传送ASP或ASP ACT信息周期地。 |

| | | | |
|----------------------------|--|--|--|
| 要求的 ASP 标识符 | A S P | 发送由信令网关进程 (SGP)以回应ASP，不用 ASP标识符。 | 已登录，如果接收。然而 ，这，因为ASP ID发送 ，不应该接收。 |
| 无效 ASP 标识符 | A S P | 发送以回应ASP消息用 重复项ASP标识符。 | 已登录，如果接收。 |
| 无效路由上下文 | A S P A C C E S S P L I A N T I F Y | 发送，当消息包含一个 无效路由上下文。 | 已登录，如果接收。另外 ，层管理通知在配置方面 发送警报一不匹配在 PGW2200和SG之间。 |
| 无效 参数 值 | 所 有。 | 发送由对等体，当消息 接收与一个无效参数值 | 已登录，如果接收 |
| 参 数 字 段 错 误 | 所 有 | | 已登录，如果接收。 |
| 意 外 的 参 数 | 所 有 | 发送，当一个意外的参 数在消息接收。 | 已登录，如果接收。 |
| 目 的 地 状 | D A U D | 发送以回应DAUD对表明 的ASP SG不希望提供状 态。 | 已登录，如果接收。另外 ，层管理通知发送生成误 配置报警。 |

| | | |
|--------|--|-----------------------------|
| 态未知 | | |
| 无效网络外观 | D A T A U N A D A V A D A U D S C O N D U P U R S T | 网络外观参数由接收的实体是无法识别的(SG或ASP)。 |

在下面的示例中的，关联带来在服务范围外(oos)，并且信号流被跟随。(请参阅**黑体**信息。)

注意： 下面某些的代码在多条线路显示由于空间限制。

```

mgc-bru-14 mml> rtrv-association:all MGC-01 - Media Gateway Controller 2004-03-18 18:28:49.691
MET M RTRV "m3ua-assoc1:IS" "m3ua-assoc2:IS" ; mgc-bru-14 mml> set-association:m3ua-
assoc2:OOS,confirm MGC-01 - Media Gateway Controller 2004-03-18 18:41:34.240 MET M COMPLD
"m3ua-assoc2" ; mgc-bru-14 mml> Mar 18 17:41:29.973: CS7 XUA MGMT API: aspm_find_dpc_node: dpc
= 1.4.1, pointCode = 0x0 Mar 18 17:41:30.875: cs7_xua_is_available_xua_dpc: dpc=80A Mar 18
17:41:30.875: CS7 XUA MGMT API: cs7_aspm_xua_dpc: dpc = 1.1.2, dpcStatus = 0 Mar 18
17:41:34.348: SCTP: Assoc 64: Sent TERMINATE_PENDING signal Mar 18 17:41:34.348: SCTP: Assoc 64:
Send Shutdown Mar 18 17:41:34.348: SCTP: SHUTDOWN_ACK_CHUNK Mar 18 17:41:34.348: SCTP: Assoc 40:
snmpID:64 state ESTABLISHED -> SHUTDOWN_ACKSENT currEstab=3 Mar 18 17:41:34.348: SCTP: Assoc 40:
tCurrEstab=-1 currEstab=2 Mar 18 17:41:34.348: xuaSctpAssocTerminate(Entry): InstanceId = 1,
AssocId = 64 Mar 18 17:41:34.348: xuaSctpAssocTerminate: TERMINATE signal for M3UA Association
(64) context=81AD75BC Mar 18 17:41:34.348: CS7 XUA MGMT API: aspm_find_aspCb_by_assocId: assocId
= 64, pAspCb = 0x81AD75BC Mar 18 17:41:34.348: CS7 XUA MGMT API: aspm_asp_cong_notify: ASP =
PGW-SW3-BR14 Mar 18 17:41:34.352: CS7 XUA MGMT API: aspm_find_dpc_node: dpc = 1.6.1, pointCode =
0x8184E4F4 Mar 18 17:41:34.352: CS7 XUA MGMT STATE: asp_state_chg_event: ASP PGW-SW3-BR14: old
state = ASP_ACTIVE, new state = ASP_DOWN, AS = PGW-SW3 Mar 18 17:41:34: %CS7XUA-5-ASPSTATE: ASP
PGW-SW3-BR14 is inactive in AS PGW-SW3 Mar 18 17:41:34.352: CS7 XUA TIMER: update_as_state:
started recovery timer for AS PGW-SW3 Mar 18 17:41:34.352: CS7 XUA MGMT STATE: update_as_state:
AS PGW-SW3: old state = AS_ACTIVE, new state = AS_PENDING Mar 18 17:41:34.352: CS7 XUA MGMT API:
aspm_find_dpc_node: dpc = 1.6.1, pointCode = 0x8184E4F4 Mar 18 17:41:34.352: CS7 XUA MGMT API:

```

aspm_find_dpc_node: dpc = 1.6.1, pointCode = 0x8184E4F4 Mar 18 17:41:34.352: CS7 XUA MGMT API:
aspm_assoc_closed: assocId = 64, success Mar 18 17:41:34.352: **SCTP: Assoc 64: Sent**
ASSOC_TERMINATE signal Mar 18 17:41:34.352: **SCTP: Assoc 40: snmpID:64 state SHUTDOWN_ACKSENT ->**
CLOSED currEstab=2 Mar 18 17:41:34.352: SCTP: Assoc 40: tCurrEstab=0 currEstab=2 Mar 18
17:41:34.352: CS7 XUA MGMT API: aspm_find_asCb_by_routingContext: routingContext = 10, pAsCb =
0x81AE18B8 Mar 18 17:41:34.352: CS7 XUA MGMT API: aspm_find_aspCb_by_assocId: assocId = 65,
pAspCb = 0x81AF2DB0 Mar 18 17:41:34.356: xua_send: assocId = 65, streamNum = 0, pak =
0x818A39A8, routingContext = 0, freeOnErr = 1 Mar 18 17:41:34.356: CS7 XUA PACKET SENT TO PGW-
SW3-BR19: Message: Class = MGMT, **Type = NTFY**, Length = 24 Mar 18 17:41:34.356: Parameter: Tag =
STATUS, Length = 8 Mar 18 17:41:34.356: Value = 0x00020003 Mar 18 17:41:34.356: Parameter: Tag =
ROUTING CONTEXT, Length = 8 Mar 18 17:41:34.356: Value = 0x0000000A Mar 18 17:41:34.356: CS7 XUA
MGMT API: aspm_find_asCb_by_routingContext: routingContext = 10, pAsCb = 0x81AE18B8 Mar 18
17:41:34.356: CS7 XUA MGMT API: aspm_find_aspCb_by_assocId: assocId = 65, pAspCb = 0x81AF2DB0
Mar 18 17:41:34.356: xua_send: assocId = 65, streamNum = 0, pak = 0x81549390, routingContext =
0, freeOnErr = 1 Mar 18 17:41:34.356: CS7 XUA PACKET SENT TO PGW-SW3-BR19: Message: Class =
MGMT, **Type = NTFY**, Length = 24 Mar 18 17:41:34.356: Parameter: Tag = STATUS, Length = 8 Mar 18
17:41:34.356: Value = 0x00010004 Mar 18 17:41:34.356: Parameter: Tag = ROUTING CONTEXT, Length =
8 Mar 18 17:41:34.356: Value = 0x0000000A Mar 18 17:41:34.356: xuaSctpAssocTerminate(Entry):
InstanceId = 1, AssocId = 64 Mar 18 17:41:34.356: xuaSctpAssocTerminate: TERMINATE signal for
M3UA Association (1100) context=81AD75BC Mar 18 17:41:34.356: CS7 XUA MGMT API:
aspm_find_aspCb_by_assocId: assocId = 64, pAspCb = 0x0 Mar 18 17:41:34.356: CS7 XUA ERROR:
aspm_assoc_closed: ASP not found for assocId 64 Mar 18 17:41:34.889: **SCTP: Assoc 65: Sent**
TERMINATE_PENDING signal Mar 18 17:41:34.889: **SCTP: Assoc 65: Send Shutdown** Mar 18 17:41:34.889:
SCTP: SHUTDOWN_ACK_CHUNK Mar 18 17:41:34.893: **SCTP: Assoc 41: snmpID:65 state ESTABLISHED ->**
SHUTDOWN_ACKSENT currEstab=2 Mar 18 17:41:34.893: SCTP: Assoc 41: tCurrEstab=-1 currEstab=1 Mar
18 17:41:34.893: xuaSctpAssocTerminate(Entry): InstanceId = 1, AssocId = 65 Mar 18 17:41:34.893:
xuaSctpAssocTerminate: TERMINATE signal for M3UA Association (65) context=81AF2DB0 Mar 18
17:41:34.893: CS7 XUA MGMT API: aspm_find_aspCb_by_assocId: assocId = 65, pAspCb = 0x81AF2DB0
Mar 18 17:41:34.893: CS7 XUA MGMT API: aspm_asp_cong_notify: ASP = PGW-SW3-BR19 Mar 18
17:41:34.893: CS7 XUA MGMT STATE: asp_state_chg_event: ASP PGW-SW3-BR19: **old state =**
ASP_INACTIVE, new state = ASP_DOWN, AS = PGW-SW3 Mar 18 17:41:34.893: CS7 XUA MGMT API:
aspm_find_dpc_node: dpc = 1.6.1, pointCode = 0x8184E4F4 Mar 18 17:41:34.893: CS7 XUA MGMT API:
aspm_assoc_closed: assocId = 65, success Mar 18 17:41:34.893: **SCTP: Assoc 65: Sent**
ASSOC_TERMINATE signal Mar 18 17:41:34.893: **SCTP: Assoc 41: snmpID:65 state SHUTDOWN_ACKSENT ->**
CLOSED currEstab=1 Mar 18 17:41:34.893: SCTP: Assoc 41: tCurrEstab=0 currEstab=1 Mar 18
17:41:34.897: xuaSctpAssocTerminate(Entry): InstanceId = 1, AssocId = 65 Mar 18 17:41:34.897:
xuaSctpAssocTerminate: TERMINATE signal for M3UA Association (1100) context=81AF2DB0 Mar 18
17:41:34.897: CS7 XUA MGMT API: aspm_find_aspCb_by_assocId: assocId = 65, pAspCb = 0x0 Mar 18
17:41:34.897: CS7 XUA ERROR: aspm_assoc_closed: ASP not found for assocId 65 Mar 18
17:41:36.356: CS7 XUA MGMT API: aspm_find_asCb_by_routingContext: routingContext = 10, pAsCb =
0x81AE18B8 Mar 18 17:41:36.356: CS7 XUA TIMER: handle_timer_event: recovery timer expired for AS
PGW-SW3 Mar 18 17:41:36.356: CS7 XUA TIMER: update_as_state: stopped recovery timer for AS PGW-
SW3 Mar 18 17:41:36.356: CS7 XUA TIMER: flush_recoveryQ: flushing recovery queue for AS PGW-SW3,
queue depth = 0 Mar 18 17:41:36.356: **CS7 XUA MGMT STATE: update_as_state: AS PGW-SW3: old state**
= AS_PENDING, new state = AS_DOWN Mar 18 17:41:36: **%CS7XUA-5-ASSTATE: AS PGW-SW3 is inactive** Mar
18 17:41:36.356: CS7 XUA MGMT API: aspm_find_dpc_node: dpc = 1.6.1, pointCode = 0x8184E4F4 Mar
18 17:41:36.356: xua_dpc_notify: dpc=1.6.1, **oldStatus=M3UA active, newStatus=M3UA inactive** Mar
18 17:41:36.356: xua_dpc_notify: Sending TFP for dpc=1.6.1 Mar 18 17:41:36.356:
cs7_xua_process_L3_dest_inaccessible: Destination prohibited received for destination 1.6.1 Mar
18 17:41:36.356: CS7 XUA MGMT POINTCODE: update_dpc_status: called xua_dpc_notify() for dpc
1.6.1 status change, newStatus = DPC_M3UA_INACTIVE, retcode = 1 Mar 18 17:41:36.356: CS7 XUA
MGMT POINTCODE: update_dpc_status: dpc 1.6.1 status change: **old status = DPC_M3UA_ACTIVE, new**
status = DPC_M3UA_INACTIVE Mar 18 17:41:36: **%CS7XUA-5-XUAPCSTATUS: XUA PC 1.6.1 is M3UA inactive**
Mar 18 17:41:36.360: xuaProcessMgmtQ (Entry) Mar 18 17:41:36.360: xua_process_mgmt_event: Event
DUNA for 1.6.1 Mar 18 17:41:36.360: CS7 XUA MGMT API: aspm_get_active_aspCb: protocol = 1,
pPreviousAspCb = 0x0, pAspCb = 0x0 Mar 18 17:41:36.360: xua_process_mgmt_event: Event DUNA for
1.6.1 **!--- Output suppressed.** Mar 18 17:43:00.878: CS7 XUA MGMT API: cs7_aspm_xua_dpc: dpc =
1.1.2, dpcStatus = 0 Mar 18 17:43:06.379: cs7_xua_is_available_xua_dpc: dpc=80A Mar 18
17:43:06.379: CS7 XUA MGMT API: cs7_aspm_xua_dpc: dpc = 1.1.2, dpcStatus = 0 Mar 18
17:43:06.379: cs7_xua_is_active_xua_dpc: dpc=831 Mar 18 17:43:06.379: CS7 XUA MGMT POINTCODE:
cs7_aspm_xua_dpc: dpc 1.6.1 matched: **status = DPC_M3UA_INACTIVE** Mar 18 17:43:06.379: CS7 XUA
MGMT API: cs7_aspm_xua_dpc: dpc = 1.6.1, dpcStatus = 2 Mar 18 17:43:06.383:
cs7_xua_is_restricted_xua_dpc: dpc=831 Mar 18 17:43:06.383: CS7 XUA MGMT POINTCODE:
cs7_aspm_xua_dpc: dpc 1.6.1 matched: status = DPC_M3UA_INACTIVE Mar 18 17:43:06.383: CS7 XUA

MGMT API: cs7_aspm_xua_dpc: dpc = 1.6.1, dpcStatus = 2 Mar 18 17:43:06.383:
cs7_xua_is_prohibited_xua_dpc: dpc=831

在有些时光，您可能需要更改进程“M3UA1”从错误级别到在PGW2200的调试级别和收集日志信息用文件/opt/CiscoMGC/var/log/platform.log。

```
mgc-bru-14 mml> rtrv-log:all MGC-01 - Media Gateway Controller 2004-03-18 19:07:22.774 MET M
RTRV "CFM-01:ERR" "ALM-01:ERR" "MM-01:ERR" "AMDMPR-01:ERR" "CDRDMPR-01:ERR" "DSKM-01:ERR"
"MMDB-01:ERR" "POM-01:ERR" "MEASAGT:ERR" "OPERSAGT:ERR" "mgcp-1:ERR" "Replic-01:ERR" "ENG-
01:ERR" "IOCM-01:ERR" "TCAP-01:ERR" "m3ua-1:ERR" "FOD-01:ERR" ; mgc-bru-14 mml> set-
log:m3ua-1:debug,confirm MGC-01 - Media Gateway Controller 2004-03-18 19:07:46.434 MET M COMPLD
"m3ua-1" ; mgc-bru-14 mml>
```

信息从文件/opt/CiscoMGC/var/log/platform.log给在服务范围外的状态带来关联，如下所示。

```
Thu Mar 18 20:32:55:903 2004 MET | m3ua-1 (PID 18243) <Debug>
procIpcMsg myCcMOO 3 Thu Mar 18 20:32:55:903 2004 MET | m3ua-1 (PID 18243) <Debug> actvProcIpc,
Got Event Type 4098 Thu Mar 18 20:32:55:903 2004 MET | m3ua-1 (PID 18243) <Debug> ID:4a0003
STATE TRANS:4 desiredMOO:3 Thu Mar 18 20:32:55:903 2004 MET | m3ua-1 (PID 18243) <Info>
PROT_INFO_Q921_LNK_CNTL: Q921 channel 4a0003 state change Commanded OOS cause N/A Thu Mar 18
20:32:55:903 2004 MET | m3ua-1 (PID 18243) <Debug> M3UA/SCTP: M3UA: term assoc 301 Thu Mar 18
20:32:55:903 2004 MET | m3ua-1 (PID 18243) <Info> 4a0003, state change Out-of-service cause
Commanded OOS Thu Mar 18 20:32:55:903 2004 MET | m3ua-1 (PID 18243) <Debug> SSC List size = 1
Thu Mar 18 20:32:55:904 2004 MET | m3ua-1 (PID 18243) <Debug> 004a0003, send SSC trans Out-of-
service cause Commanded OOS Thu Mar 18 20:32:55:905 2004 MET | m3ua-1 (PID 18243) <Debug>
M3UA/SCTP: SCTP: Assoc (004a0003) 1: Sent TERMINATE_PENDING signal Thu Mar 18 20:32:55:905 2004
MET | m3ua-1 (PID 18243) <Debug> M3UA/SCTP: SCTP: Assoc (004a0003) 1: Send Shutdown Thu Mar 18
20:32:55:905 2004 MET | m3ua-1 (PID 18243) <Debug> M3UA/SCTP: SCTP: TSN ack: (0x446e8ea5) Thu
Mar 18 20:32:55:905 2004 MET | m3ua-1 (PID 18243) <Debug> M3UA/SCTP: SCTP: SHUTDOWN_CHUNK, Thu
Mar 18 20:32:55:906 2004 MET | m3ua-1 (PID 18243) <Debug> M3UA/SCTP: SCTP: Assoc (004a0003) 1:
state ESTABLISHED -> SHUTDOWN_SENT Thu Mar 18 20:32:55:907 2004 MET | m3ua-1 (PID 18243) <Debug>
M3UA/SCTP: SCTP: Assoc (004a0003) 1: Shutdown Ack Chunk Thu Mar 18 20:32:55:907 2004 MET | m3ua-
1 (PID 18243) <Debug> M3UA/SCTP: SCTP: Assoc (004a0003) 1: Send Shutdown Thu Mar 18 20:32:55:907
2004 MET | m3ua-1 (PID 18243) <Debug> M3UA/SCTP: SCTP: SHUTDOWN_COMP_CHUNK Thu Mar 18
20:32:55:908 2004 MET | m3ua-1 (PID 18243) <Debug> M3UA/SCTP: SCTP: Assoc (004a0003) 1: Sent
ASSOC_TERMINATE signal Thu Mar 18 20:32:55:908 2004 MET | m3ua-1 (PID 18243) <Debug> M3UA/SCTP:
SCTP: Assoc (004a0003) 1: state SHUTDOWN_SENT -> CLOSED Thu Mar 18 20:32:55:912 2004 MET | m3ua-
1 (PID 18243) <Debug> M3UA/SCTP: xua_proc_sctpsig - SG 3001 Transition to Down Thu Mar 18
20:32:55:923 2004 MET | m3ua-1 (PID 18243) <Error> Routing Key 0 not found in the MAP, RK layer
mgmt event 6 from SG 160005 Thu Mar 18 20:32:55:923 2004 MET | m3ua-1 (PID 18243) <Error>
Received SGP_FAILED_DOWN for 4d0002 Thu Mar 18 20:32:55:923 2004 MET | m3ua-1 (PID 18243) <Info>
4d0002, state change Out-of-service cause N/A Thu Mar 18 20:32:55:923 2004 MET | m3ua-1 (PID
18243) <Debug> SSC List size = 2 Thu Mar 18 20:32:55:923 2004 MET | m3ua-1 (PID 18243) <Debug>
004d0002, send SSC trans Out-of-service cause N/A Thu Mar 18 20:32:55:923 2004 MET | m3ua-1 (PID
18243) <Error> Received SG_DOWN for 160005 Thu Mar 18 20:32:55:923 2004 MET | m3ua-1 (PID 18243)
<Debug> 4f0001, set SG 160005 RKey State to 2 Thu Mar 18 20:32:55:923 2004 MET | m3ua-1 (PID
18243) <Warning> 4f0001, SG 160004 Key in Ack State 3 Thu Mar 18 20:32:55:923 2004 MET | m3ua-1
(PID 18243) <Debug> 4f0001, Key is active Thu Mar 18 20:32:55:923 2004 MET | m3ua-1 (PID 18243)
<Warning> 4f0001, SG 160005 Key in Pending State 2 Thu Mar 18 20:32:55:924 2004 MET | m3ua-1
(PID 18243) <Debug> 4f0001, one or more SGpending Thu Mar 18 20:32:55:924 2004 MET | m3ua-1 (PID
18243) <Info> 150001, Send iopFaultMsg 700d of 0 to chanmgr Thu Mar 18 20:32:55:924 2004 MET |
m3ua-1 (PID 18243) <Info> 150001, Send iopFaultMsg 700b of 1 to chanmgr Thu Mar 18 20:32:55:924
2004 MET | m3ua-1 (PID 18243) <Error> 4a0003: Received SCTP_ASSOC_FAIL Thu Mar 18 20:32:55:924
2004 MET | m3ua-1 (PID 18243) <Debug> Sent 2 SSCs in a Group Thu Mar 18 20:32:56:416 2004 MET |
m3ua-1 (PID 18243) <Debug> M3UA/SCTP: SCTP: Assoc (004a0001) 0: Heartbeat Ack Chunk from
destaddr 10.48.84.179 Thu Mar 18 20:32:58:532 2004 MET | foverd (MM)(mgc-bru-14) (PID 18245)
<Warning> Received msg from invalid host (10.48.84.67): 'H9425MM0012819864mgc-bru-5a DA' Thu Mar
18 20:32:58:934 2004 MET | m3ua-1 (PID 18243) <Debug> M3UA/SCTP: SCTP: Assoc (004a0001) 0:
Heartbeat Ack Chunk from destaddr 10.48.84.179 Thu Mar 18 20:33:01:273 2004 MET | m3ua-1 (PID
18243) <Debug> procIpcMsg myCcMOO 3 Thu Mar 18 20:33:01:273 2004 MET | m3ua-1 (PID 18243)
<Debug> actvProcIpc, Got Event Type 4099 Thu Mar 18 20:33:01:273 2004 MET | m3ua-1 (PID 18243)
<Debug> RECEIVED STATISTICS REQ FROM IOCM
```

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