

# PGW2200软交换机ITP-SCTP纠错方案

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## Contents

[Introduction](#)

[Prerequisites](#)

[Requirements](#)

[Components Used](#)

[Conventions](#)

[设计注意事项](#)

[排除ITP-SCTP故障](#)

[Related Information](#)

[相关的思科支持社区讨论](#)

## [Introduction](#)

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](#)被定义，并且[RFC 3286](#)提供介绍文本RFC。

## [Prerequisites](#)

## [Requirements](#)

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 Release 9](#)
- [初学者的SCTP](#)
- [RFC 2960](#)

- SCTP

## Components Used

本文的信息根据Cisco PGW 2200版本9.4(1)及以后。

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, make sure that you understand the potential impact of any command.

## Conventions

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

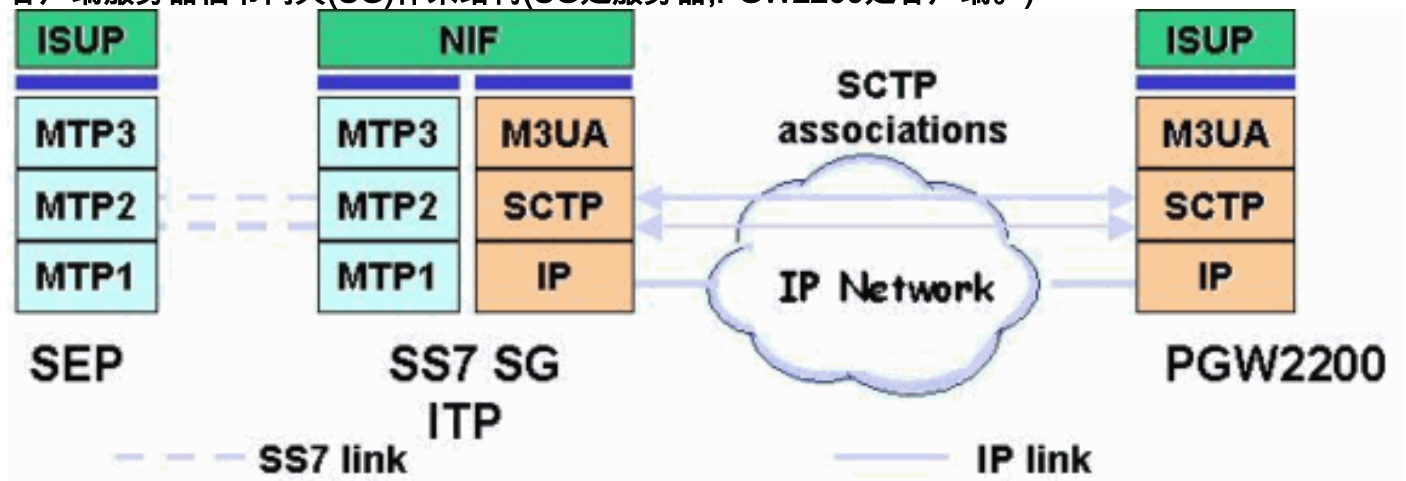
通常，信令系统7 (SS7)网络为一个特定的服务级别设计(GOS)。关于此方案，请参见ITU规格 E.723，关注某些考虑保证端到端GOS，当您设计SS7网络时。

ITU规格E.723文件讨论目标端到端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。

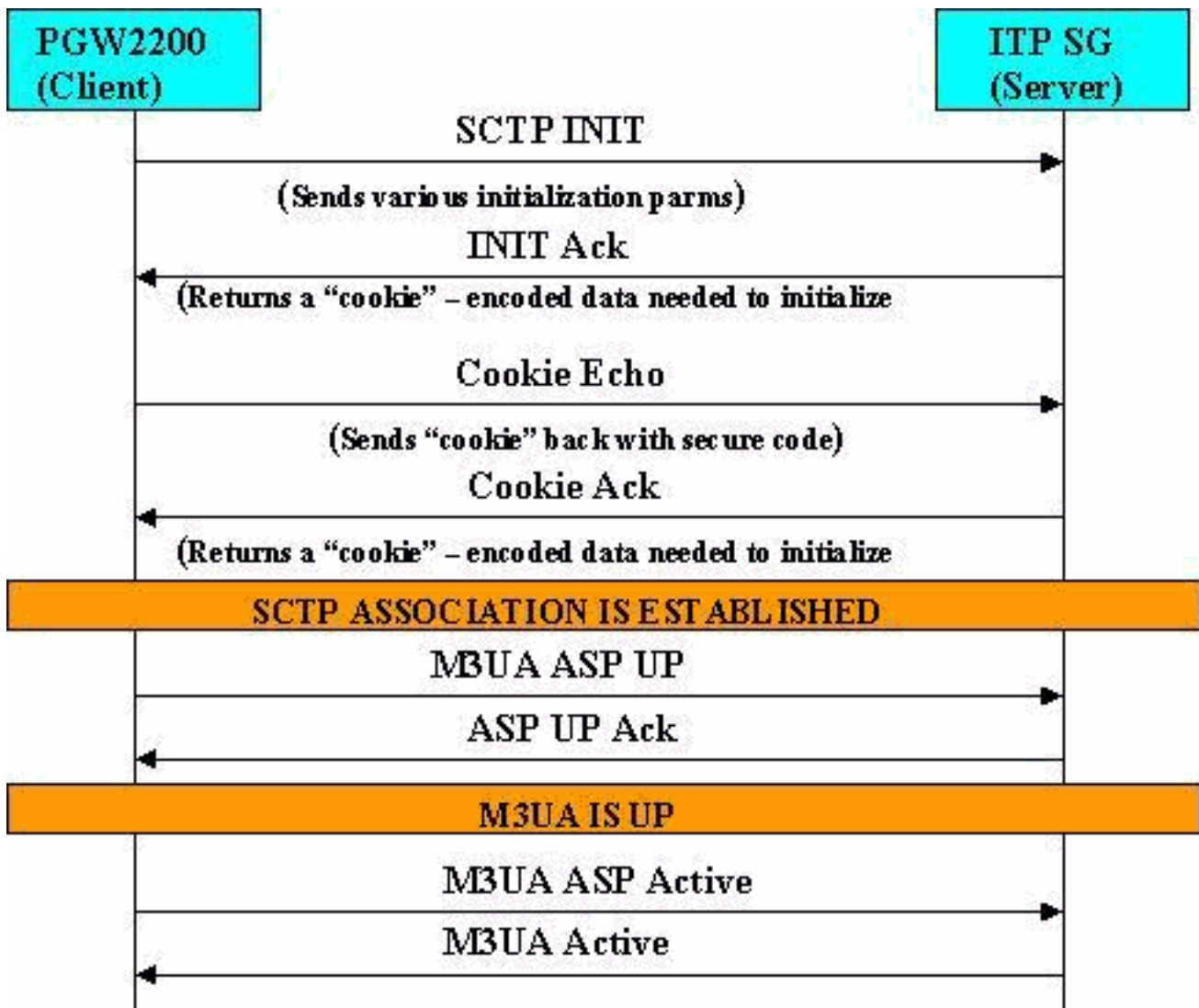
通常，往返时期(RTT)少于在两SS7-over-IP (SS7oIP)节点之间的200 – 300毫秒放置性能在多数的需求内上层的SS7应用程序。RTT可以超出此，但是应该评估网络的整体设计保证多次跳跃不超出应用层计时器。

## 排除ITP-SCTP故障

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 Association 1 */
"m3ua-assoc2:OOS,COOS"
/* M3UA Association 2 */
;
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"
  
```

i  
mgc-bru-14 mml>

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

**Note:** 信号流在[初学者的SCTP描述](#)。

**Note:** 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: xuaSctpSetAddrParams: tos = 0, maxPathRexmit = 4  
Mar 18 18:05:11.463: **xuaSctpSetAddrParams: 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 API: aspm\_find\_aspCb\_by\_assocId: assocId =  
66, pAspCb = 0x81AD75BC  
Mar 18 18:05:11.487: CS7 XUA 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，包括完全MTP3路由标签。
未提供的目的地(DUNA)	用于发信号到该的辅助信号路径(ASP)目的地是未提供的。类似于禁止的MTP转移。
可用的目的地(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)	用于从可用性的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。
未提供目的地的零件(DUPU)	发送由SG表明远端对等体MTP3用户是未提供的。
被限制的目的地(DRST)	发送到表明的ASP SS7目的地是有限的。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	承认ASP消息。
下来ASP (ASPDN)	表明对SG ASP不准备收到数据流。
下来ASP Ack	承认ASP断开的信息。
注册请求(REG REQ)	发送由ASP到SG和过去常常注册有SG的路由键。
注册回应	用于承认注册请求。
Deregistration 请求(DEREG REQ)	用于发信号SG注销登记路由键。
Deregistration 回应(残渣 RSP)	用于承认Deregistration请求。
ASP激活(ASPAC)	指示ASP当前活跃和准备接收数据流。
ASP激活Ack	用于承认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承认非激活的ASP。
心跳线(敲打)	心跳线消息。
心跳线Ack (Beat-Ack)	承认心跳线消息。
通知(NTFY)	提供事件的自动征兆给M3UA对等体。

## M3UA错误信息处理

错误代码	原因	动作
无效版本	用于通知ASP SG不支持指定的版本。应该只收到此错误以回应ASP上请求被发送到SG。	目前，有M3UA的仅单个版本。
不支持的信息分类	指示对SG或ASP消息带着一个无效的消息组被接收。	当ASP收到与不支持的信息分类时的一个消息，在错误信息的诊断的参数忽略消息，安置报头，并且发与此错误代码的错误信息。当收到此错误信息后，它被记录。
不支持的消息类型	指示对SG或ASP消息带着一种无效的消息类型被接收。	同不支持的信息分类一样，上述。
不支持的数据流处理模式	AS通知收到消息的ASP包含了无效的数据流处理A类型。	当收到此错误信息后，ASP应该生成日志条目和由分层管理回拨提供配置不匹配的通知。
意外的		被发送的，当消息意外地收到(即ASP不在激活状态或ASP在故障状态，并

消息		且ASP激活被接受了)。
协议错误		记录，如果接受。发送为一般协议错误。
无效流标识	发送由对等体，当消息带着一个无效流标识被接收。当管理消息在流被发其他然后流0时，这发生。消息的接受器在无效流的应该丢弃消息。	当此消息收到时，代码错误很可能出现。当此消息收到时，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A或ASP操作被接受时和S管理阻塞的某种表发生了。	记录，如果接受。如果首选状态是UP，ASP继续传送ASP或ASP ACT信息周期地。
需要的ASP标识	ASP发送由信令网关进程S(SGP)以回应ASP，不用ASP标识。	记录，如果接受。然而，这，因为ASP ID发送了，不应该接受。
无效ASP标识	ASP发送以回应ASP与重复项ASP标识的消息。	记录，如果接受。
无效路由上下文	ASPRACASPRILANTFY发送，当消息包含一个无效路由上下文。	记录，如果接受。另外，发送分层管理通知警报在配置的不匹配在PGW2200和SG之间。
无效参数	发送由对等体，当消息带着一个无效参数值被接收。	记录，如果接受

数值		
参数字段错误	所有	记录，如果接受。
意外的参数	所发送，当一个意外的参数在消息被接受。	记录，如果接受。
目的地状态未知	DAUD 发送以回应DAUD到表明 的ASP SG不希望提供 状态。	记录，如果接受。另外 ，发送分层管理通知生成 误配置警报。
无效网络外观	DATA UN AD AV AD AUD SCON DUP RST 网络外观参数由接受实 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。)

**Note:** 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 Association 1 \*/  
**"m3ua-assoc2:IS"**  
/\* M3UA Association 2 \*/  
;

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的调试级别和收集与文件
/opt/CiscoMGC/var/log/platform.log的日志信息。

```

```

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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