



## 相关产品

- [Cisco sc2200 信令控制器](#)
- [Cisco PGW 2200 软交换机](#)
- [信令系统7 \(SS7\)](#)

# 目录

- [简介](#)
- [先决条件](#)
- [要求](#)
- [使用的组件](#)
- [规则](#)
- [设计注意事项](#)
- [排除故障ITP-SCTP](#)
- [相关信息](#)
- [相关的思科支持社区讨论](#)

## 简介

本文描述排除故障为的流控制传输协议(SCTP)？思科公共交换电话网(PSTN)网关(PGW) 2200软交换在呼叫控制和信令模式和在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

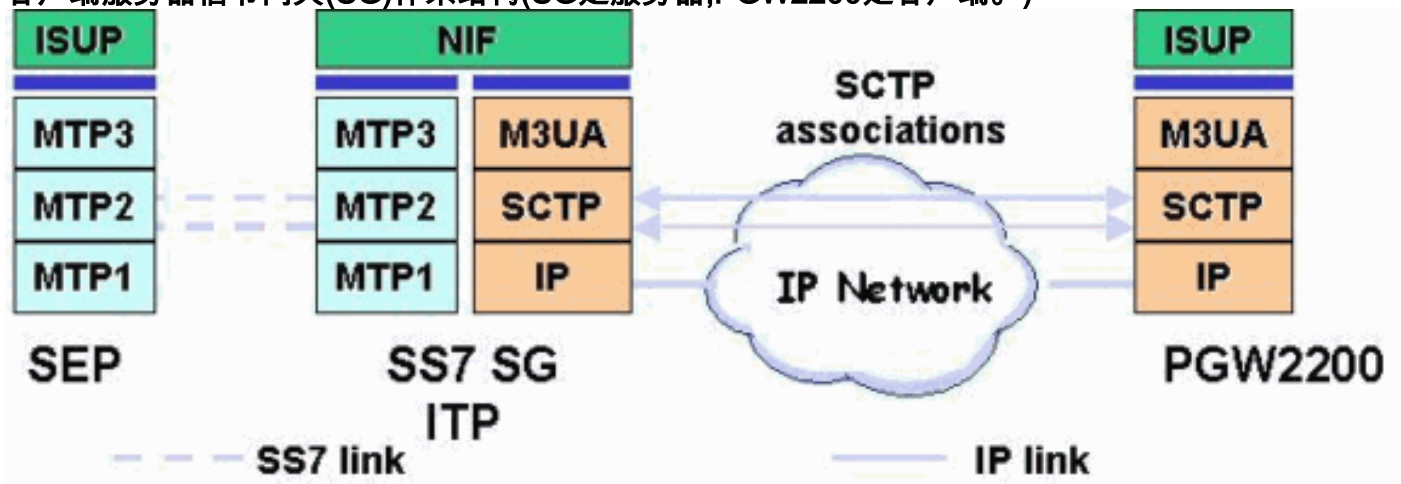
通常，信令系统7 (SS7)网络为一个特定的服务级别(GOS)设计。此方案，参考的ITU规格E.723，关注某些考虑事项保证端到端GOS，当您设计SS7网络。

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。

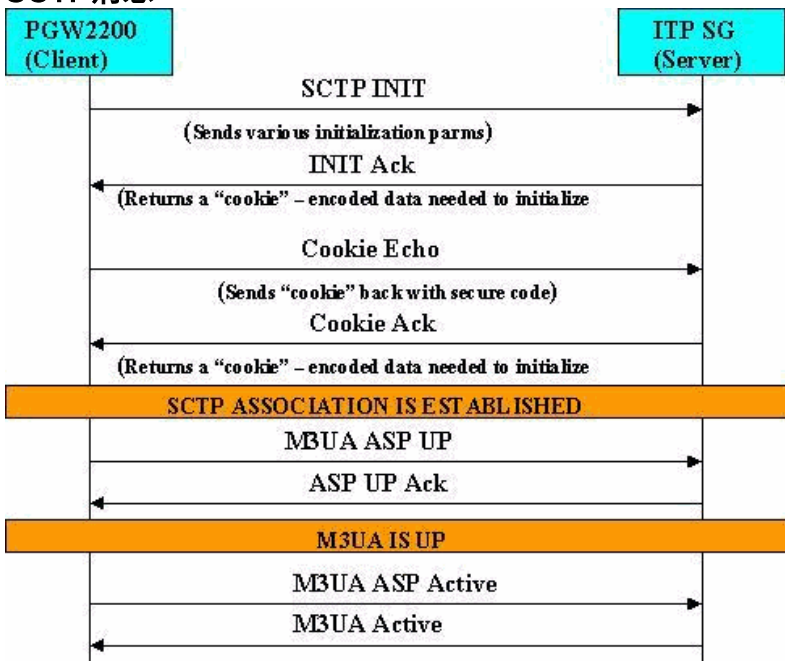
通常，往返时间(RTT)少于在两SS7-over-IP (SS7oIP)节点之间的200 – 300毫秒放置性能在多数需求内上层的SS7应用程序。RTT可以超出此，但是应该评估网络的总体设计保证多跳不超出应用层计时器。

## 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 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" ?? ; 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 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\_asCb\_by\_assocId: assocId = 66, pAsCb = 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\_asCb\_by\_assocId: assocId = 67,  
pAsCb = 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\_asCb: protocol = 1, pPreviousAsCb = 0x0, pAsCb =  
0x81AD75BC Mar 18 18:05:11.499: CS7 XUA MGMT POINTCODE: cs7\_aspm\_xua\_dpc: dpc = 1.6.1 matched: **status =**  
**DPC\_M3UA\_ACTIVEMar** 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\_asCb\_by\_assocId: assocId = 66, pAsCb = 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\_asCb: protocol = 1, pPreviousAsCb = 0x81AD75BC, pAsCb = 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\_asCb\_by\_assocId: assocId = 67, pAsCb = 0x81AF2DB0 Mar 18  
18:05:11.599: CS7 XUA MGMT API: aspm\_find\_asCb\_by\_assocId: assocId = 67, pAsCb = 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\_asCb\_by\_assocId: assocId = 67, pAsCb = 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\_asCb\_by\_assocId: assocId = 66, pAsCb =  
0x81AD75BC Mar 18 18:05:11.607: CS7 XUA MGMT API: aspm\_find\_asCb\_by\_assocId: assocId = 66, pAsCb =  
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\_asCb\_by\_assocId: assocId = 66, pAsCb = 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

## 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？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	确认检测信号消息。

(Beat-Ack)	
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	答原因 复	操作
无效版本	ASP 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上请求发送对SG。	目前，有M3UA仅单个版本。
不支持的信息分类	所有。 指示对SG或ASP消息接收与无效消息信息分类。	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	所有。 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 A S P A C。 通知ASP接收消息包含无效的数据流处理类型。	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	发送由对等体，当消息用一个无效数据流标识	当此消息接收时，代码错误很可能出现。当此消息

数据流标识符	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。	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操作 发送由SG，当ASP上或ASP操作接收时和管理阻塞一些表发生。	已登录，如果接收。如果首选的状态是UP，ASP继续传送ASP或ASPACT信息周期地。
要求的ASP标识符	ASP标识符 A发送由信令网关进程S(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	ASP标识符 A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	ASPLAINTEXTY A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 A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	所	已登录，如果接收。



数字段错误	有	
意外的参数	所发送，当一个意外的参数在消息接收。	已登录，如果接收。
目的地状态未知	DAUD 发送以回应DAUD对表明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。
无效网络外观	DATAUNDUNDAVADAUDAUDSCONDUPTURST 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 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" ?? "CDRMPR-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 3Thu Mar 18 20:32:55:903
2004 MET | m3ua-1 (PID 18243) <Debug> actvProcIpc, Got Event Type 4098Thu 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
```

## 相关信息

- [Cisco PGW 2200 Softswitch技术说明](#)
- [Cisco 信令控制器技术文档](#)
- [语音技术支持](#)
- [语音和 IP 通信产品支持](#)
- [Cisco IP 电话故障排除](#) 
- [技术支持 - Cisco Systems](#)

本文档是否是有用？[有](#) [没有](#)

感谢您的反馈。

[打开支持案例](#) ( [需要思科服务合同](#)。 ) 

## 相关的思科支持社区讨论

[思科支持社区](#)是提出和解答问题、分享建议以及与同行协作的论坛。

有关本文档中所用的规则信息，请参阅 [Cisco Technical Tips Conventions](#)。