

PGW 2200 Softswitch ITP-SCTP أطخ ل ح

تايوت حمل

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قمدق مل

(SCTP) ثبل ا يف مكحتلل لاسر ال لوكوتورب اطخ ا فاشك تس ا دن تس مل اذه فصي يف PGW 2200 Softswitch (PGW) قماع ال قلو ح مل ف تاهل ا كبش ق رابع (Cisco PSTN) ل اهجالص او ميصت مت Cisco. نم (ITP) IP لقن ق طقن يل عو تاراش ال لاسر او تامل كم مل يف مكحتل ا عضو RFC يف لوكوتوربل ا ديدحت متي . IP تاكبش ربع PSTN تاراش ل لاسر لئاسر لقن SCTP RFC 3286 ق طساوب RFC يديه متل صنل ا ريفوت متي و ، RFC 2960 .

قيساس الابلط مل

تابلط مل

قيلال ا عيضاوملاب ق فرعم دن تس مل اذه عارق يدل نوكي ن ا ب جي:

- [9 رادص ال، Cisco Media Gateway Controller Software جمان رب](#)
- [نيئد تب مل ل SCTP](#)
- [RFC 2960 راي عم ل](#)
- SCTP

قمدختس مل تانوك مل

Cisco PGW 2200 نم (1) 9.4 رادص ال ا دن تس مل اذه يف ق دراوال ا تامول عم مل دن تس ت . ثدح ال ا تارادص ال او

ق صاخ ق يل م عم ق ئب يف ق دو ح وم ل ق زه ج ال نم دن تس مل اذه يف ق دراوال ا تامول عم ل ا عا شن ا مت تنك اذ ا . (يضا رتفا) حوس مم نيوك تب دن تس مل اذه يف قمدختس مل ا ق زه ج ال ا عي مج ت ادب رم ا ي ال لم تح مل ا ري ثا تلل كم هف نم دك ا ت ف ، ق رش ا ب م ك تك ب ش

تاجالطص ال

تاجي ملت تاجالطص ا ال ع ج را ، تادن تس مل ا تاجالطص ا لوح تامول عم مل نم دي زم يل ع لوصح ل ل قين ق تل Cisco .

مېمصتلا تارابتعا

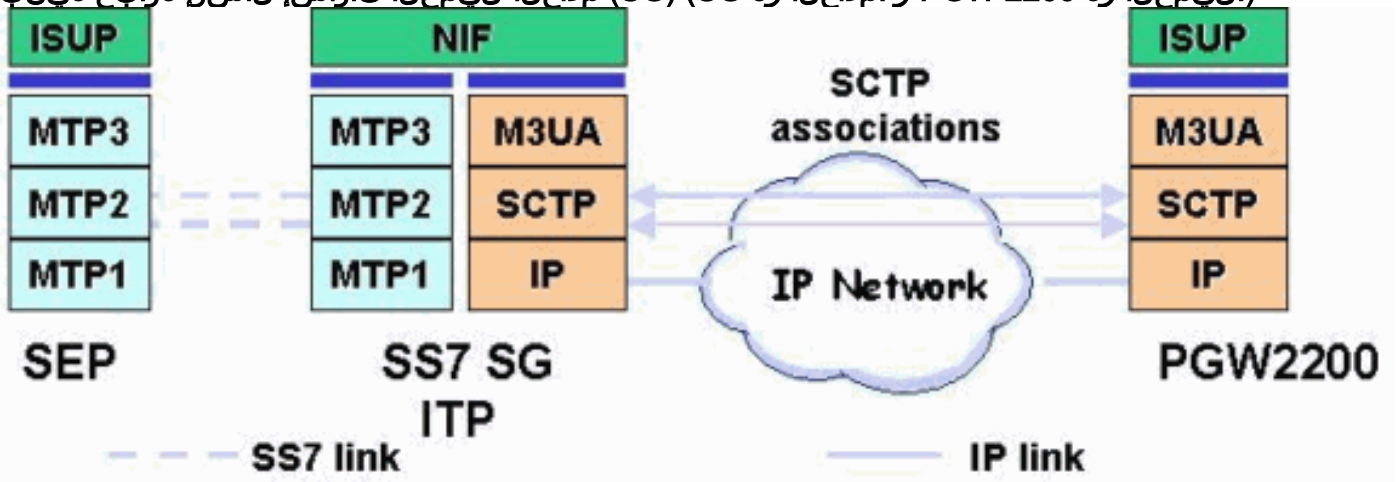
نېعم ةمدخيوتسم قيقحتل (SS7) 7 تاراشلا لاسرا ماظن تاكبش مېمصت مت، ماع لكشبو
ضعب جلاعت يتلا، ITU E.723 تافصاوم يلا عجرا، وييرانيسلا اذهل ةبسنلاب (GOS).
SS7 ةكبش مېمصت دنع ةياهن يلا ةياهن نم ليغشت ةمظنا نامضل تارابتعلا

يلا ةياهن نم (IAM) ةيلاوآل ناوئعلا ةلاسرا لاسرا تقو ITU E.723 تافصاوم دننسم لوانتي
يرخا ةيلايصفت تامولعم نمضتي وهو، ةيناث 0.9 غلبي يذلا (ةدحاو ةقيرطب) فدهلا ةياهن

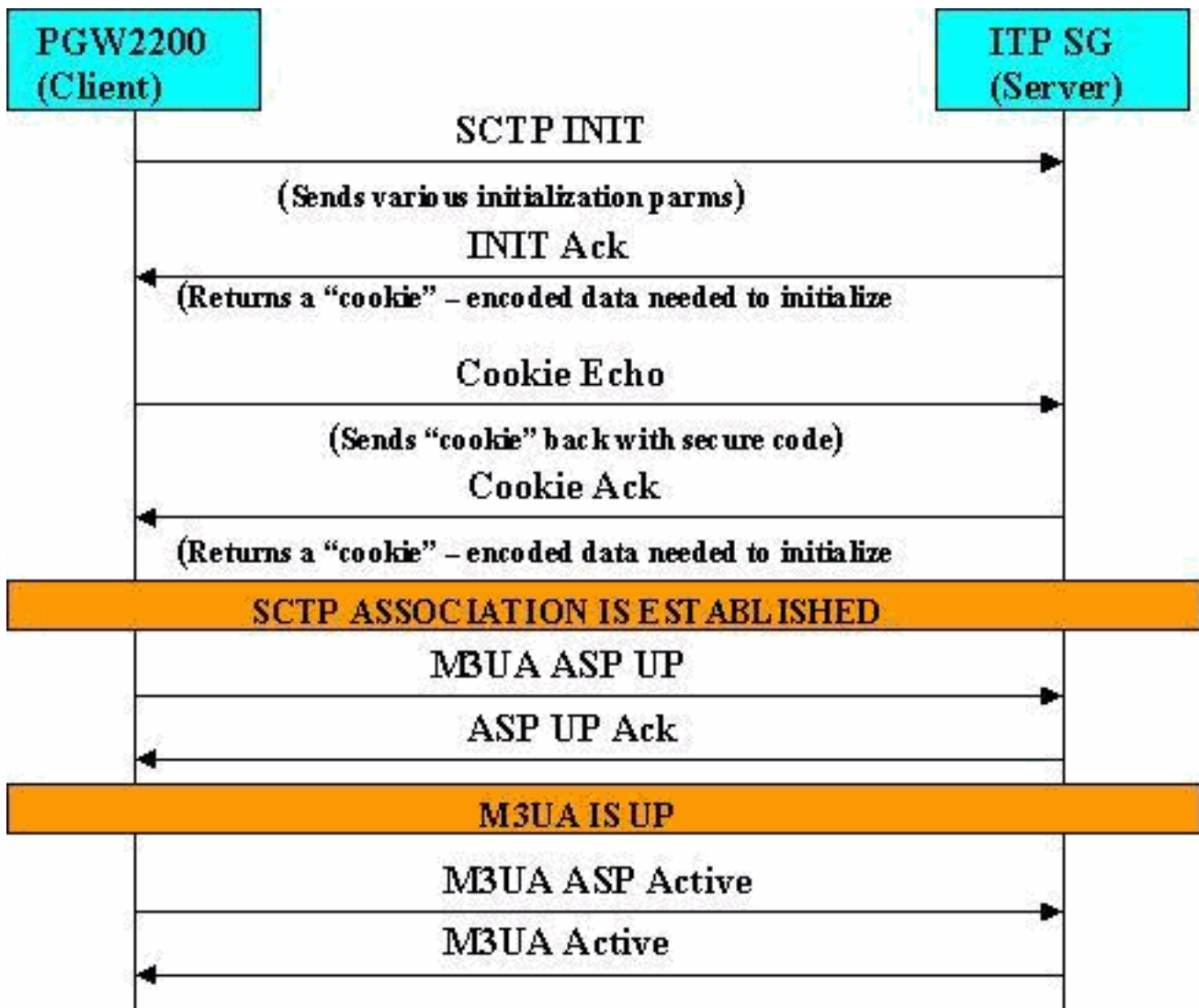
نبي زتره اچي 300 يلا 200 نم حوارتن يتلا (RTTs) ةدوعلاو باهذلا تاقرأ لمعت، ةماع ةفصب
تابلطتم ي ف قئافلا ءادالا عضو يلع (SS7OIP) تنرتنالا لوكوتورب ربع SS7 يتدقع
مبيقت بجي نكلو، رمالا اذه RTT زواجتي دقو. SS7 ايلعلا ةقبطلا تاقيبطت ةيلاغ
ةقبط تيقتو تادحاو ةدعتملا تازفقا زواجتت ال نامضل ةكبشلا يلامجال مېمصتلا
قيبطتلا.

اهجالصاو ITP-SCTP ءاطخا فاشكتسا

(. ليمعلا وه PGW 2200 و؛ مداخل وه SG) (SG) مداخل-ليمعلا تاراشلا لاسرا ةرابع ةينب



SCTP ةلاسرا



debug رمألا رادصإب مق، ITP في

```

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
  
```

رمألا مادختساب ةمدخلال في نارتقالا اذه رضحأ. ةمدخلال جراح دحاو نارتقالا كانه، PGW 2200 في ةفلتخملال تالاحال فاشتكال ITP لعل ءاطخالل احيصت عبتاو، set-association:m3ua-assoc2:IS (مسرلا ةهجاو في ةرهاظلا).

```

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>

مدخستسملا فيك تب ةصاخلا (MTP) لئاسرلا لقن عزجو SCTP ءاطخأ فاشك تسأ يف ةدعاسملا (M3UA) رصانعل عم رفوتم) حرش يلي امي، ITP و PGW 2200 يتلكشم يف اهحالصإو (M3UA) ءاطخأل احي حصت و تاراشإل قفدتل (ةطوغضملا).

. نئيتبملا SCTP يف تاراشإل قفدت فصومتى :ةطخال

.ةحاسملا دويق ببسب ةددعتم دونب ربع هاندأ زمرلا ضعب ضرع متى :ةطخال

```
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_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

أطخ SCTP و M3UA

عولاسرلا	فصولا
تاناي بة لومحل	لوكوتورب تاناي بة ل ع يوتحي دع ت ية ل او، SS7 MTP3 م دخت س م ل ك ل ذ ي ف ام ب، MTP-Transfer ل ع ية اد ب ة. ل م ك ل MTP3 ه ي ج و ت ة ي م س ت
ر ي غ ة ه و ل ا ة ر ف و ت م (DUNA)	ة ر ا ش ا ل ا ر ا س م ي ل ا ة ر ا ش ا ل ل م د خ ت س ي ر ي غ ت ا ه ج و ل ا ن ا ب (ASP) ة د ع ا س م ل ا ع. و ن م م ل MTP ل ق ن ل ل ث ا م م. ة ر ف و ت م
ة ه و ل ا ة ح ا ت م ل ا (DAVA)	ت ا ه ج و ل ا ن ا ب ASP ي ل ا ة ر ا ش ا ل ل م د خ ت س ي ح. و م س م ل ق ن MTP ل ل ث ا م م. ة ر ف و ت م
ق ي ق د ت ة ه و ل ا (DAUD)	ة ص ا خ ل ا SG ة ل ا ح ن م ب ل ط ل ل م د خ ت س ي SS7. ت ا ر ا س م م ا ح د ز ا و ا ر ف و ت ل ا ب
م ا ح د ز ا ة ك ب ش SS7 (SCON)	SG. م ا ح د ز ا ي ل ا ة ر ا ش ا ل ل م د خ ت س ي
ة ه و ل ا ة ر ف و ت م ر ي غ (DUPU)	ي ل ا ة ر ا ش ا ل ل SG ة ط س ا و ب ل ا س ر ا ل ا م ت د ي ع ب ل ا ر ي ظ ن ل ل م د خ ت س م ر ف و ت م د ع MTP3.
ة ه و ل ا ة د ي ق م ل ا (DRST)	د ي ق ت ي ل ا ر ي ش ي ASP ي ل ا ل ا س ر ا ل ا م ت MTP. ل ل ث ا م م. SS7. ة ه و ج
ASP UP (ASPUP)	ي ل ا ة ر ا ش ا ل ل ة ل ا س ر ل ا ه ذ ه م ا د خ ت س ا م ت ي ز ه ا ج و ل ي غ ش ت ل ا د ي ق ASP ن ا ب SG ة. ن ا ي ص ل ا ب ة ق ل ع ت م ل ا ل ل ا س ر ل ا ي ق ل ل ت ل
ASP ACK	ASP UP. ة ل ا س ر ب ر ق ي
ASP Down (ASPDN)	ز ه ا ج ر ي غ ASP ن ا ي ل ا SG ي ل ا ر ي ش ي ت. ا ن ا ي ب ل ا ر و ر م ة ك ر ح م ا ل ت س ا ل
ASP Down ACK	ASP Down. ة ل ا س ر ب ر ق ي
ب ل ط ل ي ج س ت ل ا (ب ل ط)	م ت ي و SG ي ل ا ASP ة ط س ا و ب ا ه ل ا س ر ا م ت ي ه ي ج و ت ل ا ح ي ت ا ف م ل ي ج س ت ل ا ه م ا د خ ت س ا م SG.

(ليجستلا)	
ةباجتساللا ليجستلال	ليجستلالا بلطب رارقلال مدختسي.
ءاغلإا بلط ليجستلالا ةداعإا بلط (ليجستلالا)	ءاغلإا SG لىلا ةراشلال مدختسي هيجوتلالا حاتفم ليجست
ةباجتساللا ءاغلإا ليجستلالا (DREG RSP)	ءاغلإا بلط لىلع ةقفاوملل مدختسي ليجستلالا.
طشن ASP (ASPAC)	زهاجو نآلا طشن ASP نأ لىلا ريشي رورملا ةكرح لوبقل.
ASP Active ACK	ASP ةلاسر لىلع فرعتلل مدختسي ةطشنلا.
ASP Inactive (ASPIA)	لىلا ASP لاقتنا لىلا ةراشلال مدختسي طشنلا ريغ عرضولا.
ASP Inactive ACK	لىلع فرعتلل SG ةطساوب لاسرالا م طشن ريغ ASP.
تاضبن بلقلا (تاضبن)	بلقلا تاضبن ةلاسر.
Heartbeat ACK (Beat- Ack)	بلقلا تاضبن ةلاسر ب فرتعي.
مالعإا (NTFY)	ريظن لىلا اءاللا ةلقتم ةراشلا رفوي M3UA.

M3UA ةلاسر ةجالام

زمر أطخالا	درلا لىلى	ببساللا	ءارجالا
رادصا ريغ حلاص	ASP أللىلى	ASP راطخالا مدختسي رادصالا معدى ال SG نأب اذه يقلت بجي .ددحمل ةباجتساللا طقف أطخالا م تىذلا ASP UP بلطل لىلا هلاسر.	كانه ،ايلاح رادصا طقف M3UA نم ديحو.
ةئف ةلاسر ريغ دمتعم ة	كلل	ASP وأ SG لىلا ريشي ةلاسر مالتسا لىلا ريغ ةلاسر ةئفب ةحيجص.	امدنع ASP لبقتسي ةئفب ةلاسر ريغ ةلاسر هناف ،ةمومدم لهاجتتي ةلاسرلا سأرلا عضيو ةململا ي ةيصيخشتلا

			أطخ ةل اسرل ، ةل اسر ل سري و زمر عم أطخ لا دنع . اذه أطخ لا ةل اسر ي قلت م تي ، هذه أطخ لا اهل ي جست
عون ةل اسر ريغ دمت عم	كل ل	ASP و SG يلا ريشي ةل اسر مالت سا يلا حل اص ريغ ةل اسر عون ب	ةئف سفن ريغ لئ اسرلا هالعا ، ةم و عدم ل
عضو جلا عم ةكح رورم لا ريغ تعم لا دم	سأ كاب	مالت سا يذلا ASP مالعا يوتحت يتلا ةل اسرلا ةكح جلا عم عون يلع حل اص ريغ رورم	ي قلت دنع أطخ لا ةل اسر نأ ب جي ، هذه ASP موق ي لاخد اءاشن اب ري فوت و لجس مدعب مالعا قباطات ني وكتلا در ةطساوب ةراد لاصتا ةق بطلا
ةل اسر ريغ قوت م ةع			لاسر لال م تي مالت سا دنع لك شب ةل اسر يا ع قوت م ريغ س ي ل ASP نأ ةل احلا ي ف نأ و ا ةطشن لا ةل احلا ي ف ASP مت و ل فسأ ASP مالت سا (Active).
أطخ ي ف ورب لا وكوت ل			لي جست لال مت ةل اح ي ف مت . ي قلت لال ا ثح ب لاسر لال ء اطخ نعا لو كوت و ر ب لال ةم اعلا
فرعم ق ف دلا ريغ حل اص		ةطساوب لاسر لال مت مالت سا دنع ريظن لا ريغ ق ف د فرعم ب ةل اسر دنع اذه ث دحي . حل اص يلع ةراد لاسر لال ب جي . 0 ق ف د م ث رخأ ق ف د ةل اسر لال ي قلت م يلع ريغ ق ف دلا يلع ةل اسر لال له اجت حل اص لال	هذه ي قلت دنع دق ، ةل اسر لال ي ف أطخ ث دح يلع زي مرت لال دنع . حج رالال هذه ي قلت ب جي ، ةل اسر لال ةل اسر لال لاسر لال يلع ، رخأ ةرم ، حل اص ق ف د لي جست ب جي و

			أطخل.
رظح ةرادإلا نمملا ووع	ناق نو AS P UP	ةطساوب لاسرإلا متي نوناق" يقلت دنع SG ثدحو ASP وأ "ASP up" رظحلا لكشأ نم لكش يرادإلا.	ليجستلا مت ةلاح يف إذا يقلتلا ةلاحلا تناك ديق ةلضفملا ،ليغشتلا ASP رمتسي لاسرا يف ASP UP ةلاسرا و ASP ACT يرود لكش ب
فرعم ASP ولطم ب	AS P ألل ع ي	ةطساوب لاسرإلا مت تاراشإلا ةرابع ةيلمع إلا ةباجتسا يف (SGP) فرعم نودب ASP UP ASP.	ليجستلا مت ةلاح يف عمو يقلتلا مدع بجي ،كلذ اذه يقلت لاسرا ببسب ASP فرعم
فرعم ASP ريغ حلاص	AS P ألل ع ي	ةباجتسا لاسرإلا مت تاذ ASP UP ةلاسرا رركم ASP فرعم	ليجستلا مت ةلاح يف يقلتلا
قاي هيجوت ريغ حلاص	رش ةك AS PA C AS PIA NT FY	امدنع لاسرإلا مت يلع ةلاسرا يوتحت ريغ هيجوت قاي حلاص.	ليجستلا مت ةلاح يف in يقلتلا تلسرا ، addition، ةرادإم الع هبنينا ةقبط مدع ةلاح نم يف قفاوت نبي ليكشت و PGW 2200 ال SG.
ةم ةم ريغ ححص ة	كل ل	ةطساوب لاسرإلا مت مالتسا دنع ريظنلا ةملمع ةميقب ةلاسرا ةححص ريغ.	ليجستلا مت ةلاح يف يقلتلا
أطخ يف لقح لعم ةم	كل ل		ليجستلا مت ةلاح يف يقلتلا
ةم ريغ قوت ةم	كل ل	يقلت دنع لاسرإلا مت يف ةعقوت م ريغ ةملمع ةلاسرا.	ليجستلا مت ةلاح يف يقلتلا
ةلاح ةهولا	دواد	ةباجتسا لاسرإلا مت نأ يلا ريشي ASP يلا	ليجستلا مت ةلاح يف

ريغ فورعم ة		ري فوت ي ف ب غري ال ال SG ة لال .	ي ق ل ت ل ل ا ل ا ل ا ة ف ا ص ا ل ا ب ل ا س ر ا م ت ي ، ك ل ل ذ ة ر ا د ا م ا ل ع ا ة ق ب ط ل ا ه ي ب ن ت ا ا ش ن ا ل ن ي و ك ت ل ا ئ ط ا خ ل ا
ره ظ م ك ب ش ري غ ة ح ل ا ص	ا ت ا د ف ا د ا ا د و س س و ك ن ب و د و ا ر د س ت	ل ع ف ر ع ت ل ا م ت ي م ل ة ك ب ش ل ا ر ه ظ م ة م ل ع م ن ا ي ك ل ل ل ب ق ن م ي ق ل ت م ل ا (S G و ا S P) .	

ت ا ر ا ش ا ل ا ل ا س ر ا ق ف د ت ع ا ب ت ا م ت ي و ، (o o s) ة م د خ ل ل ن م ن ا ر ت ق ا ل ا ج ا ر خ ا م ت ، ي ل ا ت ل ل ل ا ث م ل ا ي ف (ة ي و ط م ل ا ت ا م و ل ع م ل ا ع ج ا ر) .

ة ح ا س م ل ا د و ي ق ب ب س ب ة د د ع ت م د و ن ب ر ب ع ه ا ن د ا ز م ر ل ا ض ع ب ض ر ع م ت ي : ة ط ح ا ل م

```

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 =

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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_asCb_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_asCb_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_asCb_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_asCb_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

```

حيصت يوتسم الى اطلخ الى يوتسم نم "m3ua-1" لعمري غتلت جاتحت دق، نيعم تقوي في
/opt/CiscoMGC/var/log/platform.log / فللم عم لجل عم عيمجتو PGW 2200 لعل عاطخالا

```
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>

```

ةلأح ب نارثقالا نأ لىل /opt/CiscoMGC/var/log/platform.log /فلملا نم ةدراوالا تامولعملال ريشت
هاندأ حضوم وه امك، "ةمدخلال جراح"

```

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

قلم تاذ تامول عم

- [Cisco PGW 2200 Softswitch Tech تاطحالم](#)
- [Cisco نم تاراش الالاسرل م كحت تادحول ةينقتللا قئاثوللا](#)
- [توصللا ةينقت معد](#)
- [IP تالاصتاو ةيتوصللا تالاصتاللا تاجت نم معد](#)
- [اهالصل او Cisco نم ةيفتاهللا IP ةمدخ عاطخا فاشكتسلا](#)
- [Cisco Systems - ينفللا معدلا](#)

ةمچرتل هذه ل و ح

ةلأل تاي نقتل ن م ة و مچ م ادخت ساب دن تسم ل ا اذ ه Cisco ت مچرت
م ل ا ل ا ا ن ا ع مچ م ف ن م دخت س م ل م عد و ت م م م دقت ل ة م ش ب ل و
م ك ة ق ي ق د ن و ك ت ن ل ة ل ا ة مچرت ل ض ف ا ن ا ة ظ ح ا ل م م چ ر ي . ة ص ا خ ل م ه ت غ ل ب
Cisco ي ل خ ت . ف ر ت م م مچرت م ا ه م د ق ي ي ت ل ا ة ي ف ا ر ت ح ا ل ا ة مچرت ل ا م ل ا ح ل ا و ه
ل ا ا م ا د ا د ع و چ ر ل ا ب ي ص و ت و ت ا مچرت ل ا ه ذ ه ة ق د ن ع ا ه ت ي ل و ئ س م Cisco
Systems (ر ف و ت م ط ب ا ر ل ا) ي ل ص ا ل ا ي ز ي ل چ ن ا ل ا دن ت س م ل ا