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简介

本文假设读者熟悉Cisco IOS软件网守和网守基本理解对网关H.225注册、接纳和状态(RAS)消息传送。有关详细信息，请参阅了解 H.323 网守。

根据H.323建议， Cisco IOS网守应该支持这些H.225 RAS带宽管理消息：

- 带宽请求(BRQ)
- 带宽拒绝(BRJ)
- 带宽确认(BCF)消息

此概念可以根据带宽管理。它可以也是接受所有要求带宽更改的零函数。换句话说，网守能任一使用这些消息管理带宽，如果准许或拒绝请求或者忽略他们。

带宽管理操作概述

Cisco网守能拒绝从终端的呼叫由于带宽限制。这能发生，如果网守确定没有在网络的充足的带宽联机为了支持呼叫。当终端请求额外的带宽或报告在用于呼叫时的带宽上的一个变化此功能也运行在激活的呼叫期间。

Cisco网守保持所有激活的呼叫记录，以便能管理带宽资源在其区域。在集群配置中，关守升级协议(GUP)通知指示消息被交换每个集合间隔时间并且传播关于带宽利用率的信息区域的。此GUP消息交换允许备选网守为了适当地管理单区域的带宽，即使网守在独立的物理设备。

当您决定是否有足够的带宽为了接受呼叫许可请求(ARQ)， Cisco网守计算与此公式的可用的带宽：

Available_bandwidth = (total_allocated_bandwidth) - (bandwidth_used_locally) - (bandwidth_used_by_all_alternates)。

如果可用的带宽为呼叫是满足的，接纳确认(ACF)返回，否则准入拒绝(ARJ)返回。

当他们请求带宽从Cisco网守时，语音网关应该考察编码、第2层封装和压缩功能例如压缩RTP [cRTP]。有时这些功能没有在呼叫建立时定义，在带宽更改请求可以发出到网守情况下，在呼叫建立为了调节呼叫使用的相当数量带宽后。

注意： 自Cisco IOS软件版本12.2(2)XA，当编码更改时， Cisco实现所有带宽更改报告的仅功能。请参阅部分：BRQ如何从网关被触发通知网守减少呼叫带宽欲知更多信息。

如何配置在Cisco网守的带宽管理功能

自Cisco IOS软件版本12.3(1)，区域带宽限制的这些类型在Cisco网守可以配置：

- 所有H.323流量的最大带宽本地区域和一个指定的远程区域之间。如果需要，此配置可以为每个远程区域单个被重复。
- 为单个会话允许的最大带宽在本地区域，典型地使用视频应用，不语音
- 集体所有H.323允许的流量的最大带宽到所有远程区域
- 在响应对ARQ前， new命令**带宽检查目的**检查目的地端点带宽。此命令在Cisco IOS软件版本12.3(1)介绍。

请使用这些命令为了配置Cisco网守区域带宽：

- **带宽{区域之间|***区域名称***}***最大带宽*
- **带宽遥控***最大带宽*
- **带宽检查目的**欲了解更详细的信息参考bandwidth命令。

这些配置值用于为了处理ARQ和BRQs。

对于ARQ， Cisco网守从适当的区域计数器和远程计数器扣除在消息指定的带宽。如果这导致其中任一与相反去负值，则呼叫拒绝，并且ARJ答复用原因ARJ_REQ_DENIED传送。如果呼叫请求超出此带宽，则Cisco网守返回准入拒绝(ARJ)。

当BRQ请求带宽增加时， Cisco网守验证请求区域和远程。如果验证发生故障，则BRJ答复用BRJ_INSUFFICIENT_RSC原因和允许的最大带宽量传送。

网守显示用于的命令显示带宽信息

输入**show gatekeeper zone status命令**为了显示所有区域的带宽信息。

```
gkb-1#show gatekeeper zone status                          GATEKEEPER ZONES
================GK name      Domain Name    RAS Address     PORT  FLAGS-------      -----------
-----------     ----- -----gkb-1        domainB.com   172.16.13.41    1719  LS     BANDWIDTH
INFORMATION (kbps) :    Maximum total bandwidth : 512         Current total bandwidth : 128
Current total bandwidth (w/ Alt GKs) : 128         Maximum interzone bandwidth : 512
Current interzone bandwidth : 128         Current interzone bandwidth (w/ Alt GKs) : 128
Maximum session bandwidth : 512       SUBNET ATTRIBUTES :    All Other Subnets : (Enabled)
PROXY USAGE CONFIGURATION :    Inbound Calls from all other zones :       to terminals in local
zone gkb-1 : use proxy      to gateways in local zone gkb-1  : do not use proxy      to MCUs in
local zone gkb-1  : do not use proxy    Outbound Calls to all other zones :      from terminals
in local zone gkb-1 : use proxy      from gateways in local zone gkb-1  : do not use proxy
from MCUs in local zone gkb-1  : do not use proxygka-1        domainA.com   172.16.13.35    1719
RS
```

万一网守是集群的一部分输入show gatekeeper zone cluster命令为了显示带宽信息。

```
gkb-1#show gatekeeper zone cluster                    LOCAL CLUSTER INFORMATION
=========================                               TOT BW   INT BW   REM BW   LAST
ALT GKLOCAL GK NAME ALT GK NAME   PRI (kbps)   (kbps)   (kbps)   ANNOUNCE  STATUS------------ -
----------   --- ------   ------   ------   --------  ------gkb-1         gkb-2         0   0
0        0        22s       CONNECTED
```

输入show gatekeeper calls命令为了显示该网守允许的激活的呼叫，并且多少带宽每一个使用。

```
gkb-1#show gatekeeper calls Total number of active calls = 1.                          GATEKEEPER
CALL INFO                          ====================LocalCallID
Age(secs)    BW3-63466                                9           128(Kbps) Endpt(s): Alias
E.164Addr    src EP: gwa-1                  4085272923 Endpt(s): Alias                  E.164Addr
dst EP: gwb-1                  3653           CallSignalAddr  Port  RASSignalAddr   Port
172.16.13.23    1720  172.16.13.23    54670
```

带宽相关的 RAS 消息 (BRQ/BCF/BRJ)

BRQ消息用于为了请求在带宽上的一个变化从Cisco网守。这是程序：

1. Cisco网守由endpointIdentifier验证请求为了找出在注册数据库的终端。
2. 它通过使用callReferenceValue查出呼叫记录为了查找呼叫关联与终端与同样callReferenceValue。
3. 如果它查出呼叫记录，然后计算在带宽上的变化，则从全局区域带宽添加或减少，如所需要。它为所有代理或网关资源执行同样在使用中。
4. BCF或BRJ消息被退还的对终端，取决于成功或失败。

用于报告带宽状态的 RAS 消息

信息请求响应(IRR) " Non-Standard Data "字段也传播关于当前使用的带宽的信息在网关或代理。

BRQ 是如何从网关被触发以通知网守减少呼叫带宽

在Cisco H.323网关的Cisco IOS软件版本12.2(2)XA之前，呼叫总是报告为了要求带宽64 Kbps。这是思科G.711编码的单向的带宽。如果在呼叫的终端选择使用更有效的编码，这未报告给Cisco网守。在Cisco IOS软件版本12.2(2)XA. Cisco H.323网关或者以后版本，遵守H.323版本3，报告的带宽双向。最初， 128 kb保留。如果在呼叫的终端选择更有效的编码， Cisco网守通知带宽更改。

注意： 配置Cisco H.323网关同此in命令全局配置模式为了使用在Cisco IOS软件版本12.2(2)XA之前使用的报告的带宽行为区域带宽管理：

```
Router(config-gateway)#emulate cisco h323 bandwidth
```

示例

此部分包括这两示例：

- 带宽管理在集群结构里
- 请使用BRQ为了报告带宽

示例 1：带宽管理在集群结构里

请参阅从集群的一个Cisco网守捕获的调试。调试表示ARQ和ACF消息，包括为呼叫要求的带宽。在您收到这些消息后， Cisco网守更新在集群的其他网守关于此带宽更改。

注意： 这些命令用于为了获取此输出：**debug h225 asn1** ， **debug ras** ， **debug gatekeeper gup asn1** ， **debug gatekeeper gup events**。

```
Mar  2 23:59:26.802: Mar  2 23:59:26.802: RAS INCOMING PDU ::=value RasMessage ::=
admissionRequest :   !--- ARQ is received. { requestSeqNum 5928 callType pointToPoint : NULL
callModel direct : NULL endpointIdentifier {"6196296800000001"} destinationInfo { e164 : "3653"
} srcInfo { e164 : "4085272923", h323-ID : {"gwa-1"} } srcCallSignalAddress ipAddress : { ip
```

```
'AC100D0F'H port 11002 } bandWidth 1280!--- Intial bandwidth of 128k is requested.
callReferenceValue 14 nonStandardData { nonStandardIdentifier h221NonStandard : { t35CountryCode
181 t35Extension 0 manufacturerCode 18 } data '80000008800180'H } conferenceID
'C8C66C7D168011CC800C8828285B8DF6'H activeMC FALSE answerCall TRUE canMapAlias TRUE
callIdentifier { guid 'C8C66C7D168011CC800D8828285B8DF6'H } willSupplyUUIEs FALSE }Mar 2
23:59:26.810: ARQ (seq# 5928) rcvdMar 2 23:59:26.810: H225 NONSTD INCOMING ENCODE BUFFER::= 80
00000880 0180Mar 2 23:59:26.810: Mar 2 23:59:26.810: H225 NONSTD INCOMING PDU ::=value
ARQnonStandardInfo ::= { sourceAlias { } sourceExtAlias { } callingOctet3a 128
}parse_arq_nonstd: ARQ Nonstd decode succeeded, remlen = 129Mar 2 23:59:26.814: RAS OUTGOING PDU
::=value RasMessage ::= admissionConfirm :  !--- ACF is sent back. { requestSeqNum 5928
bandWidth 1280!--- BW value is included. callModel direct : NULL destCallSignalAddress ipAddress
: { ip 'AC100D17'H port 1720 } irrFrequency 240 willRespondToIRR FALSE uuiesRequested { setup
FALSE callProceeding FALSE connect FALSE alerting FALSE information FALSE releaseComplete FALSE
facility FALSE progress FALSE empty FALSE } } Mar 2 23:59:26.818: RAS OUTGOING ENCODE BUFFER::=
2B 00172740 050000AC 100D1706 B800EF1A 00C00100 020000Mar 2 23:59:26.818: Mar 2 23:59:26.818:
IPSOCK_RAS_sendto: msg length 24 from 172.16.13.41:1719 to 172.16.13.23: 51874Mar 2
23:59:26.822: RASLib::RASSendACF: ACF (seq# 5928) sent to 172.16.13.23Mar 2 23:59:36.046: GUP
OUTGOING PDU ::=value GUP_Information ::= !--- GUP update message is sent to all gatekeepers in
the cluster. { protocolIdentifier { 1 2 840 113548 10 0 0 2 } message announcementIndication : {
announcementInterval 30 endpointCapacity 46142 callCapacity 68793 hostName '676B622D31'H
percentMemory 25 percentCPU 0 currentCalls 1        currentEndpoints 2        zoneInformation
{          {            gatekeeperIdentifier {"gkb-1"}            altGKIdentifier {"gkb-2"}
totalBandwidth 1280!--- BW info is included. interzoneBandwidth 1280            remoteBandwidth
1280          }        }      }    }Mar  2 23:59:36.050: GUP OUTGOING ENCODE BUFFER::= 00
0A2A8648 86F70C0A 00000220 001E40B4 3E80010C B904676B 622D3132 00010002 01420000 67006B00
62002D00 31080067 006B0062 002D0032 40050040 05004005 00Mar  2 23:59:36.054: Mar  2
23:59:36.054: Sending GUP ANNOUNCEMENT INDICATION to 172.16.13.16
```

示例 2：请使用BRQ为了报告带宽

查找从一个Cisco网守的调试在远程关守的带宽对144 Kbps被限制的设置的。您在调试看到ARQ请求的是起始带宽128 kpbs。当呼叫设置时，终端报告在带宽上的变化与BRQ消息，并且用于16 kpbs的带宽，含义呼叫设置思科G729编码。然后另一呼叫请求和被处理同样。

请注意，如果第二次呼叫到达了，在终端请求在带宽上的变化第一个呼叫的前，呼叫，因为128+128=256 kpbs，并且是超过配置的144 kpbs的Cisco网守拒绝。

```
!!!gatekeeper zone local gka-1 domainA.com 172.16.13.35 zone remote gkb-1 domainB.com
172.16.13.41 1719  zone prefix gkb-1 36* zone prefix gka-1 53* gw-type-prefix 1#* default-
technology bandwidth remote 144 no shutdown endpoint ttl 120!
```

此输出捕获与debug h225 asn1命令和debug ras ：

```
gka-1#show loggingSyslog logging: enabled (0 messages dropped, 0 messages rate-limited, 0
flushes, 0 overruns)    Console logging: disabled    Monitor logging: level debugging, 1076
messages logged    Buffer logging: level debugging, 203860 messages logged    Logging Exception
size (4096 bytes)    Trap logging: level informational, 66 message lines logged          Log
Buffer (9999999 bytes):Mar 14 20:18:06.385: RAS INCOMING ENCODE BUFFER::= 27 88039700 F0003800
31004600 36004100 38003900 38003000 30003000 30003000 30003000 31010180 69860140 04006700
77006100 2D003140 0500000B 40B50000 12138000 0008A001 800B1249 53444E2D 564F4943 45DA4A9C
E21FCF11 CC802093 7822E08B 6308E020 00018011 00DA4A9C E21FCF11 CC802193 7822E08B 630100Mar 14
20:18:06.401: Mar 14 20:18:06.405: RAS INCOMING PDU ::=value RasMessage ::= admissionRequest :
!--- ARQ is received. { requestSeqNum 920 callType pointToPoint : NULL callModel direct : NULL
endpointIdentifier {"81F6A898000000001"} destinationInfo { e164 : "3653" } srcInfo { h323-ID :
{"gwa-1"} } bandWidth 1280!--- Intial BW of 128 kpbs is requested. callReferenceValue 11
nonStandardData { nonStandardIdentifier h221NonStandard : { t35CountryCode 181 t35Extension 0
manufacturerCode 18 } data '80000008A001800B124953444E2D564F494345'H } conferenceID
'DA4A9CE21FCF11CC8020937822E08B63'H activeMC FALSE answerCall FALSE canMapAlias TRUE
callIdentifier { guid 'DA4A9CE21FCF11CC8021937822E08B63'H } willSupplyUUIEs FALSE } Mar 14
20:18:06.425: H225 NONSTD INCOMING ENCODE BUFFER::= 80 000008A0 01800B12 4953444E 2D564F49
4345Mar 14 20:18:06.429: Mar 14 20:18:06.429: H225 NONSTD INCOMING PDU ::=value
ARQnonStandardInfo ::= { sourceAlias { } sourceExtAlias { } callingOctet3a 128
interfaceSpecificBillingId "ISDN-VOICE" }Mar 14 20:18:06.433: H225 NONSTD OUTGOING PDU ::=value
```

LRQnonStandardInfo ::= { ttl 6 nonstd-callIdentifier { guid 'DA4A9CE21FCF11CC8021937822E08B63'H } callingOctet3a 128 gatewaySrcInfo { h323-ID : {"gwa-1"} } }Mar 14 20:18:06.437: H225 NONSTD OUTGOING ENCODE BUFFER::= 82 86B01100 DA4A9CE2 1FCF11CC 80219378 22E08B63 01800D01 40040067 00770061 002D0031 Mar 14 20:18:06.445: Mar 14 20:18:06.445: RAS OUTGOING PDU ::= value RasMessage ::= locationRequest : { requestSeqNum 2061 destinationInfo { e164 : "3653" } nonStandardData { nonStandardIdentifier h221NonStandard : { t35CountryCode 181 t35Extension 0 manufacturerCode 18 } data '8286B01100DA4A9CE21FCF11CC8021937822E08B...'H } replyAddress ipAddress : { ip 'AC100D23'H port 1719 } sourceInfo { h323-ID : {"gka-1"} } canMapAlias TRUE }Mar 14 20:18:06.461: RAS OUTGOING ENCODE BUFFER::= 4A 80080C01 01806986 40B50000 12258286 B01100DA 4A9CE21F CF11CC80 21937822 E08B6301 800D0140 04006700 77006100 2D003100 AC100D23 06B70B80 0D014004 0067006B 0061002D 00310180 Mar 14 20:18:06.469: Mar 14 20:18:06.473: RAS OUTGOING PDU ::=value RasMessage ::= requestInProgress : { requestSeqNum 920 delay 9000 } Mar 14 20:18:06.473: RAS OUTGOING ENCODE BUFFER::= 80 05000397 2327Mar 14 20:18:06.473: Mar 14 20:18:06.477: RAS INCOMING ENCODE BUFFER::= 4F 080C00AC 100D1706 B800AC10 0D17DC0E 40B50000 12390001 40040067 00770062 002D0031 08006700 6B006200 2D003101 10014004 00670077 0062002D 003100AC 100D1706 B8000000 00000000 00000010 40080880 013C0501 0000Mar 14 20:18:06.489: Mar 14 20:18:06.489: RAS INCOMING PDU ::=value RasMessage ::= locationConfirm : { requestSeqNum 2061 callSignalAddress ipAddress : { ip 'AC100D17'H port 1720 } rasAddress ipAddress : { ip 'AC100D17'H port 56334 } nonStandardData { nonStandardIdentifier h221NonStandard : { t35CountryCode 181 t35Extension 0 manufacturerCode 18 } data '000140040067007700620020D00310800670068B00...'H } destinationType { gateway { protocol { voice : { supportedPrefixes { } } } } } mc FALSE undefinedNode FALSE } }Mar 14 20:18:06.509: H225 NONSTD INCOMING ENCODE BUFFER::= 00 01400400 67007700 62002D00 31080067 006B0062 002D0031 01100140 04006700 77006200 2D003100 AC100D17 06B80000 00000000 00000000 Mar 14 20:18:06.517: Mar 14 20:18:06.521: H225 NONSTD INCOMING PDU ::=value LCFnonStandardInfo ::= { termAlias { h323-ID : {"gwb-1"} } gkID {"gkb-1"} gateways { { gwType voip : NULL gwAlias { h323-ID : {"gwb-1"} } sigAddress { ip 'AC100D17'H port 1720 } resources { maxDSPs 0 inUseDSPs 0 maxBChannels 0 inUseBChannels 0 activeCalls 0 bandwidth 0 inuseBandwidth 0 } } } }Mar 14 20:18:06.537: RAS OUTGOING PDU ::=value RasMessage ::= **admissionConfirm** : *!--- ACF is sent back.* { requestSeqNum 920 **bandWidth 1280***!--- BW is included.* callModel direct : NULL destCallSignalAddress ipAddress : { ip 'AC100D17'H port 1720 } irrFrequency 240 willRespondToIRR FALSE uuiesRequested { setup FALSE callProceeding FALSE connect FALSE alerting FALSE information FALSE releaseComplete FALSE facility FALSE progress FALSE empty FALSE } }Mar 14 20:18:06.549: RAS OUTGOING ENCODE BUFFER::= 2B 00039740 050000AC 100D1706 B800EF1A 00C00100 020000Mar 14 20:18:06.553: Mar 14 20:18:06.677: RAS INCOMING ENCODE BUFFER::= 32 0003981E 00380031 00460036 00410038 00390038 00300030 00300030 00300030 00300031 DA4A9CE2 1FCF11CC 80209378 22E08B63 000B00A0 15080011 00DA4A9C E21FCF11 CC802193 7822E08B 630100Mar 14 20:18:06.685: Mar 14 20:18:06.689: RAS INCOMING PDU ::=value RasMessage ::= **bandwidthRequest** : *!--- BRQ message to request bandwidth to be changed to 16 kpbs.* { requestSeqNum 921 endpointIdentifier {"81F6A89800000001"} conferenceID 'DA4A9CE21FCF11CC8020937822E08B63'H callReferenceValue 11 **bandWidth 160***!--- 16 kpbs is requested.* callIdentifier { guid 'DA4A9CE21FCF11CC8021937822E08B63'H } answeredCall FALSE }Mar 14 20:18:06.697: RAS OUTGOING PDU ::=value RasMessage ::= **bandwidthConfirm** : *!--- BCF is sent back approving the bandwidth request change.* { requestSeqNum 921 **bandWidth 160** }Mar 14 20:18:06.697: RAS OUTGOING ENCODE BUFFER::= 34 039800A0 Mar 14 20:18:06.701: Mar 14 20:18:12.066: RAS INCOMING ENCODE BUFFER::= 0E 40039906 0008914A 00030000 0100AC10 0D0FE511 00040067 006B0061 002D0031 00B50000 12288F00 0002003B 0180211E 00380031 00460036 00410038 00390038 00300030 00300030 00300030 00300031 01000180 Mar 14 20:18:12.074: Mar 14 20:18:12.078: RAS INCOMING PDU ::=value RasMessage ::= registrationRequest : { requestSeqNum 922 protocolIdentifier { 0 0 8 2250 0 3 } discoveryComplete FALSE callSignalAddress { } rasAddress { ipAddress : { ip 'AC100D0F'H port 58641 } } terminalType { mc FALSE undefinedNode FALSE } gatekeeperIdentifier {"gka-1"} endpointVendor { vendor { t35CountryCode 181 t35Extension 0 manufacturerCode 18 } } timeToLive 60 keepAlive TRUE endpointIdentifier {"81F6A89800000001"} willSupplyUUIEs FALSE maintainConnection TRUE }Mar 14 20:18:12.098: RAS OUTGOING PDU ::=value RasMessage ::= registrationConfirm : { requestSeqNum 922 protocolIdentifier { 0 0 8 2250 0 3 } callSignalAddress { } gatekeeperIdentifier {"gka-1"} endpointIdentifier {"81F6A89800000001"} alternateGatekeeper { } timeToLive 60 willRespondToIRR FALSE maintainConnection TRUE } Mar 14 20:18:12.106: RAS OUTGOING ENCODE BUFFER::= 12 40039906 0008914A 00030008 0067006B 0061002D 00311E00 38003100 46003600 41003800 39003800 30003000 30003000 30003000 3000310F 8A010002 003B0100 0180Mar 14 20:18:12.114: Mar 14 20:18:14.586: RAS INCOMING ENCODE BUFFER::= 5A C0039A08 80013C05 04010020 40078000 38003100 46003600 41003800 39003800 30003000 30003000 30003000 30003100 AC100D0F E5110100 AC100D0F 06B80140 04006700

77006100 2D003101 C100B500 00120570 2BA39307 000BDA4A 9CE21FCF 11CC8020 937822E0 8B630000
A003C000 1100DA4A 9CE21FCF 11CC8021 937822E0 8B630E20 0100Mar 14 20:18:14.602: Mar 14
20:18:14.602: RAS INCOMING PDU ::=value RasMessage ::= **infoRequestResponse** : *!--- IRR message is received and it includes the bandwidth used on the gateway.* { requestSeqNum 923 endpointType {
gateway { protocol { voice : { supportedPrefixes { { prefix e164 : "1#" } } } } } } mc FALSE
undefinedNode FALSE } endpointIdentifier {"81F6A89800000001"} rasAddress ipAddress : { ip
'AC100D0F'H port 58641 } callSignalAddress { ipAddress : { ip 'AC100D0F'H port 1720 } }
endpointAlias { h323-ID : {"gwa-1"} } perCallInfo { { nonStandardData { nonStandardIdentifier
h221NonStandard : { t35CountryCode 181 t35Extension 0 manufacturerCode 18 } data '702BA39307'H }
callReferenceValue 11 conferenceID 'DA4A9CE21FCF11CC8020937822E08B63'H h245 { } callSignaling {
} callType pointToPoint : NULL **bandWidth 160** callModel direct : NULL
callIdentifier { guid 'DA4A9CE21FCF11CC8021937822E08B63'H }
} } needResponse FALSE } Mar 14 20:18:14.646: H225 NONSTD INCOMING ENCODE
BUFFER::= 70 2BA39307 Mar 14 20:18:14.646: Mar 14 20:18:14.646: H225 NONSTD INCOMING PDU
::=value IRRperCallnonStandardInfo ::= { startTime 732140295 }Mar 14 20:18:28.008:
RAS INCOMING ENCODE BUFFER::= 27 88039B00 F0003800 31004600 36004100 38003900 38003000 30003000
30003000 30003000 31010180 69860140 04006700 77006100 2D003140 0500000C 40B50000 12030000
00000000 00000000 00000000 00000000 0008E020 00018011 00000000 00000000 00000000 00000000
000100Mar 14 20:18:28.024: Mar 14 20:18:28.024: RAS INCOMING PDU ::=value RasMessage ::=
admissionRequest : { requestSeqNum 924 callType pointToPoint : NULL callModel
direct : NULL endpointIdentifier {"81F6A89800000001"} destinationInfo {
e164 : "3653" } srcInfo { h323-ID : {"gwa-1"} } **bandWidth 1280**
callReferenceValue 12 nonStandardData { nonStandardIdentifier h221NonStandard
: { t35CountryCode 181 t35Extension 0 manufacturerCode 18
} data '000000'H } conferenceID '00000000000000000000000000000000'H
activeMC FALSE answerCall FALSE canMapAlias TRUE callIdentifier {
guid '00000000000000000000000000000000'H } willSupplyUUIEs FALSE }Mar 14
20:18:28.044: H225 NONSTD INCOMING ENCODE BUFFER::= 00 0000Mar 14 20:18:28.044: Mar 14
20:18:28.044: H225 NONSTD INCOMING PDU ::=value ARQnonStandardInfo ::= { sourceAlias
{ } sourceExtAlias { } }Mar 14 20:18:28.048: H225 NONSTD OUTGOING PDU
::=value LRQnonStandardInfo ::= { ttl 6 nonstd-callIdentifier { guid
'00000000000000000000000000000000'H } gatewaySrcInfo { h323-ID : {"gwa-
1"} } } Mar 14 20:18:28.056: H225 NONSTD OUTGOING ENCODE BUFFER::= 82 86901100
00000000 00000000 00000000 00000000 0D014004 00670077 0061002D 0031Mar 14 20:18:28.060: Mar 14
20:18:28.060: RAS OUTGOING PDU ::=value RasMessage ::= locationRequest : {
requestSeqNum 2062 destinationInfo { e164 : "3653" } nonStandardData
{ nonStandardIdentifier h221NonStandard : { t35CountryCode 181
t35Extension 0 manufacturerCode 18 } data
'828690110000000000000000000000000000000...'H } replyAddress ipAddress : {
ip 'AC100D23'H port 1719 } sourceInfo { h323-ID : {"gka-1"} }
canMapAlias TRUE }Mar 14 20:18:28.076: RAS OUTGOING ENCODE BUFFER::= 4A 80080D01 01806986
40B50000 12238286 90110000 00000000 00000000 00000000 0000000D 01400400 67007700 61002D00
3100AC10 0D2306B7 0B800D01 40040067 006B0061 002D0031 0180Mar 14 20:18:28.084: Mar 14
20:18:28.088: RAS OUTGOING PDU ::=value RasMessage ::= requestInProgress : {
requestSeqNum 924 delay 9000 }Mar 14 20:18:28.088: RAS OUTGOING ENCODE BUFFER::= 80
0500039B 2327Mar 14 20:18:28.088: Mar 14 20:18:28.097: RAS INCOMING ENCODE BUFFER::= 4F 080D00AC
100D1706 B800AC10 0D17DC0E 40B50000 12390001 40040067 00770062 002D0031 08006700 6B006200
2D003101 10014004 00670077 0062002D 003100AC 100D1706 B8000000 00000000 00000010 40080880
013C0501 0000Mar 14 20:18:28.105: Mar 14 20:18:28.109: RAS INCOMING PDU ::=value RasMessage ::=
locationConfirm : { requestSeqNum 2062 callSignalAddress ipAddress : {
ip 'AC100D17'H port 1720 } rasAddress ipAddress : { ip 'AC100D17'H
port 56334 } nonStandardData { nonStandardIdentifier h221NonStandard :
{ t35CountryCode 181 t35Extension 0 manufacturerCode 18 }
data '000140040067007700620020D0031080067006B00...'H } destinationType {
gateway { protocol { voice : {
supportedPrefixes { } } } } } mc
FALSE undefinedNode FALSE } }Mar 14 20:18:28.129: H225 NONSTD INCOMING ENCODE
BUFFER::= 00 01400400 67007700 62002D00 31080067 006B0062 002D0031 01100140 04006700 77006200
2D003100 AC100D17 06B80000 00000000 00000000 Mar 14 20:18:28.133: Mar 14 20:18:28.137: H225
NONSTD INCOMING PDU ::=value LCFnonStandardInfo ::= { termAlias { h323-ID
: {"gwb-1"} } gkID {"gkb-1"} gateways { { gwType voip :
NULL gwAlias { h323-ID : {"gwb-1"} } sigAddress
{ ip 'AC100D17'H port 1720 } resources {
maxDSPs 0 inUseDSPs 0 maxBChannels 0 inUseBChannels 0

```
activeCalls 0            bandwidth 0            inuseBandwidth 0          }        }      }
}Mar 14 20:18:28.153: RAS OUTGOING PDU ::=value RasMessage ::= admissionConfirm :     {
requestSeqNum 924      bandWidth 1280      callModel direct : NULL      destCallSignalAddress
ipAddress :       {        ip 'AC100D17'H        port 1720      }      irrFrequency 240
willRespondToIRR FALSE      uuiesRequested       {        setup FALSE        callProceeding
FALSE        connect FALSE        alerting FALSE        information FALSE        releaseComplete
FALSE        facility FALSE        progress FALSE        empty FALSE      }    }Mar 14
20:18:28.169: RAS OUTGOING ENCODE BUFFER::= 2B 00039B40 050000AC 100D1706 B800EF1A 00C00100
020000Mar 14 20:18:28.169: Mar 14 20:18:28.289: RAS INCOMING ENCODE BUFFER::= 32 00039C1E
00380031 00460036 00410038 00390038 00300030 00300030 00300030 00300031 00000000 00000000
00000000 00000000 000C00A0 15080011 00000000 00000000 00000000 00000000 000100Mar 14
20:18:28.301: Mar 14 20:18:28.301: RAS INCOMING PDU ::=value RasMessage ::= bandwidthRequest :
{      requestSeqNum 925      endpointIdentifier {"81F6A89800000001"}      conferenceID
'00000000000000000000000000000000'H      callReferenceValue 12      bandWidth 160
callIdentifier       {        guid '00000000000000000000000000000000'H      }      answeredCall
FALSE    }Mar 14 20:18:28.309: RAS OUTGOING PDU ::=value RasMessage ::= bandwidthConfirm :     {
requestSeqNum 925      bandWidth 160    }Mar 14 20:18:28.313: RAS OUTGOING ENCODE BUFFER::= 34
039C00A0 Mar 14 20:18:28.313:
```

相关信息

- VoIP呼叫准入控制
- Cisco高性能网守
- 思科H.323扩展性和互通性增强功能
- 带有网守的 VoIP
- 语音技术支持
- 语音和统一通信产品支持
- Cisco IP 电话故障排除
- 技术支持和文档 - Cisco Systems