

了解尖顶术语和路由逻辑

目录

[简介](#)

[先决条件](#)

[要求](#)

[术语](#)

[定义](#)

[网络拓扑](#)

[呼叫示例](#)

[基本的呼叫路由](#)

[配置](#)

[关键配置元素](#)

[完全配置](#)

[故障排除](#)

[跟踪级别配置](#)

[跟踪收集](#)

[Trace命令](#)

[触发条件Trace示例](#)

[路由Trace示例](#)

[SIP电话LOG Trace示例](#)

[结构上参考](#)

简介

本文如何解释Cisco Unified SIP代理(尖顶)呼叫路由逻辑。

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先决条件

要求

思科建议您有这些主题知识：

- 会话初始化协议(SIP)常识
- 对语音网络部署的尖顶的概念性了解

术语

定义

期限 定义

SIP网络是可以为一般路由选择目的的被对待同样的一个逻辑集合本地接口。

从http://www.cisco.com/c/en/us/td/docs/voice_ip_comm/cusp/rel9_1/gui_configuration/en_US/网络逻辑上定义了网络的区域。使用在尖顶设备的接口网络可以定义，或者特定端口可以用于提供（示例：侦听端口14.50.245.9 : 5060，14.50.245.9 : 5062，14.50.245.9 : 使用单个尖顶第3层）一旦网络逻辑上定义，他们可以用于根据网络的已配置的触发。

网络

注意：如果设置侦听端口，请保证发送流量的设备对尖顶使用正确端口。如果设置侦听端口CUCM发送流量到端口5065，不是默认5060。

触发

触发可以设置识别传入消息。

触发能识别入站网络、本地端口、远程网络等等。

服务器组定义了Cisco Unified SIP代理系统为每网络响应的元素。

服务器组

从http://www.cisco.com/c/en/us/td/docs/voice_ip_comm/cusp/rel9_1/gui_configuration/en_US/服务器组和路由组可以使用作为目的地在路由表里。服务器组通常会使用同一个类型的冗余设备路由组允许您选定网关和中继选择的命令。它允许您优先安排网关和端口列表流出的中继线选择。

路由组

从http://www.cisco.com/c/en/us/td/docs/voice_ip_comm/cusp/rel9_1/gui_configuration/en_US/服务器组和路由组可以使用作为目的地在路由表里。路由组通常定义了一被衡量的组目的地到达对CUCM的一直接SIP中继和对到达CUCM的PSTN网关的一SIP中继是路由组的好的实例。对CUCM您配置路由表指向SIP请求到他们适当的目的地。每个路由表包括根据查找策略匹配的一套**密钥**。

从http://www.cisco.com/c/en/us/td/docs/voice_ip_comm/cusp/rel9_1/gui_configuration/en_US/路由表在尖顶类似于第3层路由表。尖顶路由表在第3层路由表里包括**密钥**类似于网络。路由表对在尖顶路由表里**密钥**可以被映射到以下路由类型路由SIP消息：

目的地：一台特定主机或一本地配置的服务器组可以配置作为目的地

路由组：有一个或更多元素的一个本地配置的路由组

路由表

路由策略：路由策略可以用于移动在路由表之间类似于在CUCM的转换模式

答复：而不是路由SIP消息，尖顶能发送一特定答复终止呼叫尝试

默认SIP：简单路由根据RFC 3263。

注意：如果映射**密钥**对路由策略，请是认知的逻辑环路。

路由策略在该路由表里指向一个路由表并且定义了如何使用**密钥**。

示例：

路由表名称："FromCUCM105-RT"

路由策略

查询关键字匹配："前缀长匹配"

查询关键字："SIP报头：'到'电话"

通过分离**密钥**的定义从**密钥**的配置值同一个路由表可以用于不同的方式。例如，一项路由策略能策略可能定义路由表的**密钥**作为a的前缀从：报头。

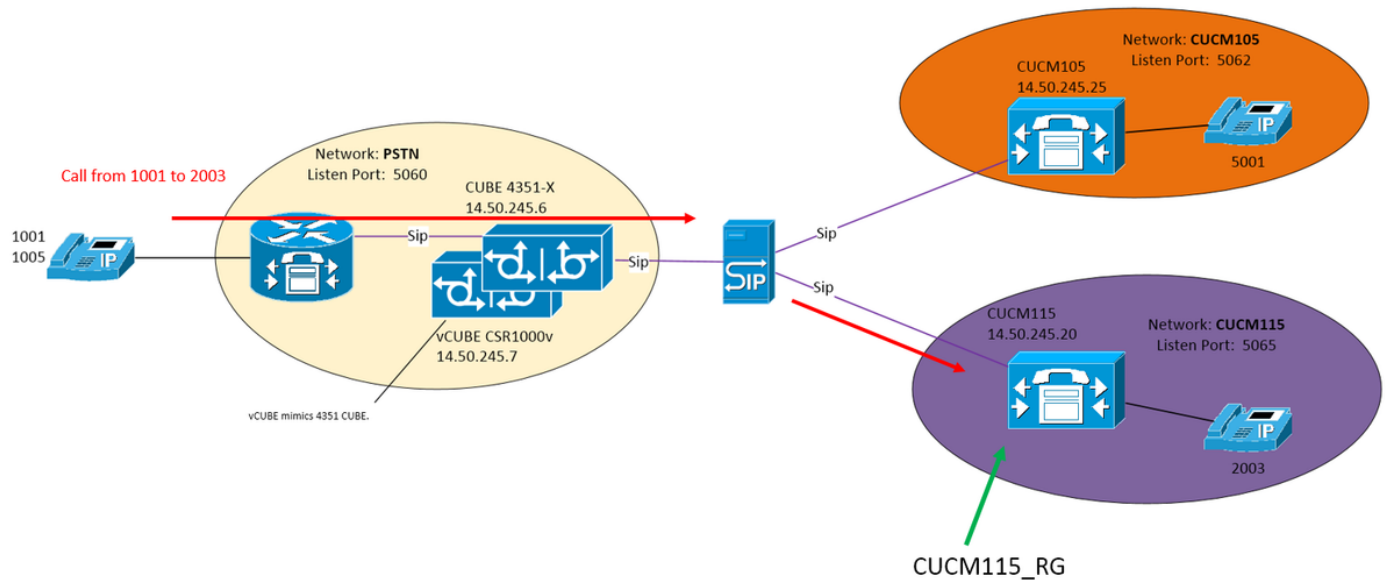
路由触发

路由触发与路由策略请连接触发。

逻辑上它陈述SIP消息是否匹配触发，然后使用已配置的路由策略。

在总和，SIP消息用根据SIP侦听端口的**网络**标记。**网络**可以用于匹配**触发**。**路由策略**在哪里然后识别哪个**路由表**使用根据**触发**并且定义了寻找**密钥**。**路由表**在哪里然后将使用**密钥**发现路由SIP消息(路由类型)。路由类型(主机、**服务器组**、**路由组**等等)将用于传送SIP信息到已配置的目的地(元素)。

网络拓扑



呼叫示例

呼叫从在CUCM115的PSTN 1001到2003年

基本的呼叫路由

流入网络：“PSTN”

触发：“从PSTN触发”

触发，如果传入消息匹配网络“PSTN”

路由触发：“FromPSTN-RPolicy” “从PSTN触发”

链路“从PSTN触发”对“FromPSTN-RPolicy”

路由策略：“FromPSTN-RPolicy”

指定路由表“PSTN-RT”

指定查询关键字匹配“前缀长匹配”

指定查询关键字是“SIP报头：‘到’电话”

路由表：“PSTN-RT”

包含密钥“2”去路由组“CUCM115_RG”

路由组(或服务组)：“CUCM115_RG”

包含元素14.50.245.20:5065

这些配置结合发表逻辑语句：

对于从PSTN的一呼叫，电话号码前缀是2，请路由到14.50.245.20:5065

配置

PSTN - 2XXX和5XXX呼叫被发送到尖顶通过多维数据集和vCUBE

CUCM 10.5 - 1XXX和2XXX发送到尖顶通过SIP中继

CUCM 11.5 - 1XXX和5XXX发送到尖顶通过SIP中继

注意：当曾经GUI时，必须提交一些配置，在他们是可用的在其他配置部分前。这些标记用###Commit配置

关键配置元素

CLI 配置

啜饮网络PSTN标准

sip侦听PSTN udp 14.50.245.9 5060

触发情况从PSTN触发

创建网络

GUI 配置

配置>>网络>>添加

Network

Name: PSTN
Type: standard

Allow Outbound Connections
Enable Disable

SIP Header Hiding
Hide VIA:

UDP Settings
Maximum Packet Size: 1500

TCP Settings
TCP Connection Setup Timeout (ms): 1000

TLS Certificate Verification Setting:
Verify Client Certificate:
Verify Server Certificate:

Add Cancel

定义监听端口识别网络'PSTN'

配置>>网络>> [Network Name] >> SIP侦听点>>添

Network 'PSTN' Listen Point

Listen Point
IP Address: 14.50.245.9
Port: 5060
Transport Type: udp

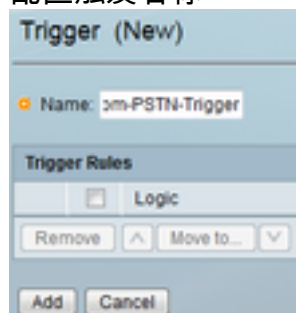
Add Cancel

入站网络的'PSTN'触发

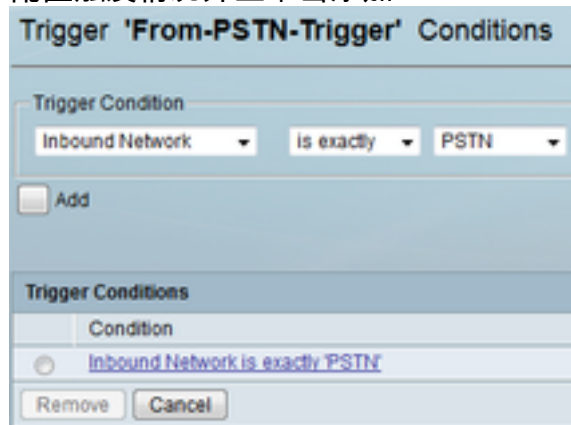
配置>>触发>>添加

顺序1
网络^ \ QPSTN \ E\$
结尾顺序
末端触发情况

配置触发名称



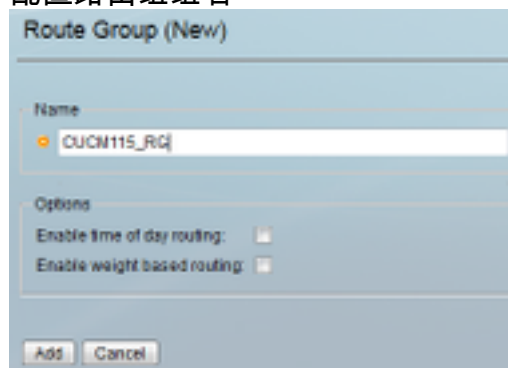
配置触发情况并且单击添加



指定'CUCM115_RG'的一个目的地

配置>>路由组>>添加(###Commit配置)

配置路由组组名



点击"Click Here"在元素列下，然后单击添加
输入元素目的地

路由组CUCM115_RG
元素目标目的地14.50.245.20:5065:udp CUCM115问
值0.0
故障切换代码502 - 503
权重50
末端元素
末端路由

Route Group 'CUCM115_RG' Element (New)

Target Destination Next Hop

Target Destination

Host / Server Group: 14.50.245.20

Port: 5060

Transport Type: udp

Next Hop

SIP URI:

Options

Network: CUCM115

Q-Value: 1

Weight: 50

Time Policy: None

Fallover Response Codes: 502,503

Add Cancel

定义路由表并且关联密钥对目的地
配置>>路由表>>添加(###Commit配置)
配置路由表名称

Route Tables

Route Table

Name: PSTN-RT

Add Cancel

输入密钥和目的地

Route Table 'PSTN-RT' Route (New)

Candidate Value

Key 2

Route Type: route-group

Route Group: CUCM115_RG

Add Cancel

当配置路由组作为一个目的地在路由表里时，请勿为端口并且传输类型。通过添加端口和传输请键入，诉尖顶寻找DNS主机条目Cubestack:5060:UDP而不找在局部重要的服务器组配置。

路由表PSTN-RT
密钥2组CUCM115_RG
密钥5组CUCM105_RG
末端路由表

完全配置

注意： show configuration活动verbose将显示整个配置包括路由表。

```
josmeado-CUSP(cusp)# show configuration active verbose
Building CUSP configuration...
!
server-group sip global-load-balance weight
server-group sip retry-after 250
server-group sip element-retries udp 2
server-group sip element-retries tls 1
server-group sip element-retries tcp 1
sip dns-srv
  enable
  no naptr
  end dns
!
no sip header-compaction
no sip logging
!
sip max-forwards 70
sip network CUCM105 standard
  no non-invite-provisional
  allow-connections
  no tls verify
  retransmit-count invite-client-transaction 3
  retransmit-count invite-server-transaction 5
  retransmit-count non-invite-client-transaction 3
  retransmit-timer T1 500
  retransmit-timer T2 4000
  retransmit-timer T4 5000
  retransmit-timer TU1 5000
  retransmit-timer TU2 32000
  retransmit-timer clientTn 64000
  retransmit-timer serverTn 64000
  tcp connection-setup-timeout 1000
  tls handshake-timeout 3000
  udp max-datagram-size 1500
  end network
!
sip network CUCM115 standard
  no non-invite-provisional
  allow-connections
  no tls verify
  retransmit-count invite-client-transaction 3
  retransmit-count invite-server-transaction 5
  retransmit-count non-invite-client-transaction 3
  retransmit-timer T1 500
  retransmit-timer T2 4000
  retransmit-timer T4 5000
  retransmit-timer TU1 5000
  retransmit-timer TU2 32000
  retransmit-timer clientTn 64000
  retransmit-timer serverTn 64000
  tcp connection-setup-timeout 1000
  tls handshake-timeout 3000
  udp max-datagram-size 1500
  end network
!
sip network PSTN standard
  no non-invite-provisional
  allow-connections
```



```
no tls verify
retransmit-count invite-client-transaction 3
retransmit-count invite-server-transaction 5
retransmit-count non-invite-client-transaction 3
retransmit-timer T1 500
retransmit-timer T2 4000
retransmit-timer T4 5000
retransmit-timer TU1 5000
retransmit-timer TU2 32000
retransmit-timer clientTn 64000
retransmit-timer serverTn 64000
tcp connection-setup-timeout 1000
tls handshake-timeout 3000
udp max-datagram-size 1500
end network
!
sip overload reject retry-after 0
!
no sip peg-counting
!
sip privacy service
sip queue message
  drop-policy head
  low-threshold 80
  size 2000
  thread-count 20
end queue
!
sip queue radius
  drop-policy head
  low-threshold 80
  size 2000
  thread-count 20
end queue
!
sip queue request
  drop-policy head
  low-threshold 80
  size 2000
  thread-count 20
end queue
!
sip queue response
  drop-policy head
  low-threshold 80
  size 2000
  thread-count 20
end queue
!
sip queue st-callback
  drop-policy head
  low-threshold 80
  size 2000
  thread-count 10
end queue
!
sip queue timer
  drop-policy none
  low-threshold 80
  size 2500
  thread-count 8
end queue
!
sip queue xcl
```

```
drop-policy head
low-threshold 80
size 2000
thread-count 2
end queue
!
route recursion
!
sip tcp connection-timeout 30
sip tcp max-connections 256
!
no sip tls
!
sip tls connection-setup-timeout 1
!
trigger condition From-CUCM105-Trigger
sequence 1
  in-network ^\QCUCM105\E$
end sequence
end trigger condition
!
trigger condition From-CUCM115-Trigger
sequence 1
  in-network ^\QCUCM115\E$
end sequence
end trigger condition
!
trigger condition From-PSTN-Trigger
sequence 1
  in-network ^\QPSTN\E$
end sequence
end trigger condition
!
trigger condition mid-dialog
sequence 1
  mid-dialog
end sequence
end trigger condition
!
accounting
no enable
no client-side
no server-side
end accounting
!
server-group sip group Cubestack PSTN
element ip-address 14.50.245.6 5060 udp q-value 0.0 weight 1
element ip-address 14.50.245.7 5060 udp q-value 0.0 weight 1
failover-resp-codes 503
lbtype weight
ping
end server-group
!
route group CUCM105_RG
element target-destination 14.50.245.25:5062:udp CUCM105 q-value 0.0
  failover-codes 510
  weight 50
end element
end route
!
route group CUCM115_RG
element target-destination 14.50.245.20:5065:udp CUCM115 q-value 0.0
  failover-codes 502 - 503
  weight 50
```

```

    end element
  end route
!
route table FromCUCM105-RT
  key * target-destination Cubestack PSTN
  key 2 group CUCM115_RG
  end route table
!
route table FromCUCM115-RT
  key 1 target-destination Cubestack PSTN
  key 5 group CUCM105_RG
  end route table
!
route table PSTN-RT
  key 2 group CUCM115_RG
  key 5 group CUCM105_RG
  end route table
!
policy lookup FromCUCM105-RPolicy
  sequence 100 FromCUCM105-RT header to uri-component phone
  rule prefix
  end sequence
  end policy
!
policy lookup FromCUCM115-RPolicy
  sequence 100 FromCUCM115-RT header to uri-component phone
  rule prefix
  end sequence
  end policy
!
policy lookup FromPSTN-RPolicy
  sequence 100 PSTN-RT header to uri-component phone
  rule prefix
  end sequence
  end policy
!
trigger routing sequence 1 by-pass condition mid-dialog
trigger routing sequence 2 policy FromPSTN-RPolicy condition From-PSTN-Trigger
trigger routing sequence 3 policy FromCUCM115-RPolicy condition From-CUCM115-Trigger
trigger routing sequence 4 policy FromCUCM105-RPolicy condition From-CUCM105-Trigger
!
server-group sip global-ping
!
no server-group sip ping-503
!
sip cac session-timeout 720
sip cac PSTN 14.50.245.6 5060 udp limit -1
sip cac PSTN 14.50.245.7 5060 udp limit -1
!
no sip cac
!
sip listen CUCM105 udp 14.50.245.9 5062
sip listen CUCM115 udp 14.50.245.9 5065
sip listen PSTN udp 14.50.245.9 5060
!
call-rate-limit 100
!
end

```

故障排除

跟踪级别配置

在尖顶GUI中，请导航**排除故障>> Cisco Unified SIP代理>>跟踪**

触发条件-级别：调试：这将显示哪些触发是启动呼叫路由的匹配。

路由-级别：调试：这将显示在呼叫路由期间，什么执行。哪密钥的匹配，什么目的地选择等等。

SIP电线LOG -级别：调试：这将表示接收和传送的SIP信息。

跟踪收集

通过GUI

在尖顶GUI中，请导航**排除故障>> Cisco Unified SIP代理>>跟踪**

选择下载日志文件

您也能清楚日志

通过FTP客户端

默认情况下没有与FTP privileges的帐户。要启用与FTP privileges的一个帐户请添加用户到PFS组。

```
josmeado-CUSP# user platformadmin group ?
Administrators      System administrators group
pfs-privusers      PFS privileged users group
pfs-readonly       PFS read only group
josmeado-CUSP# user platformadmin group pfs
```

通过FTP客户端，请连接到尖顶。 **文件路径:**尖顶>>日志>> trace >> trace.log

Trace命令

1. **SIP电线LOG** -流入SIP邀请
2. **SIP电线LOG** -尝试的返回100
3. **触发条件**-识别网络并且触发路由策略
4. **路由**-请参阅路由下面Trace部分关于详细信息
5. **SIP电线LOG** -发送邀请往目的地
6. **SIP电线LOG** -请继续正常SIP处理，直到有每个呼叫段的一个200 Ok消息

触发条件Trace示例

```
13:24:36:987 08:17:2017 vCUSP,9.1.5,josmeado-CUSP,14.50.245.9,trace.log
[REQUESTI.7] DEBUG 2017.08.17 13:25:03:006 conditions.RegexCondition - inNetwork='PSTN'
[REQUESTI.7] DEBUG 2017.08.17 13:25:03:006 conditions.RegexCondition - IN_NETWORK: PSTN
[REQUESTI.7] DEBUG 2017.08.17 13:25:03:006 conditions.AbstractRegexCondition -
pattern(^QPSTN\E$), toMatch(PSTN) returning true
[REQUESTI.7] DEBUG 2017.08.17 13:25:03:006 triggers.ModuleTrigger - ModuleTrigger.eval()
action<FromPSTN-RPolicy> actionParameter<>
[REQUESTI.7] DEBUG 2017.08.17 13:25:03:006 triggers.ModuleTrigger - ModuleTrigger.eval() got the
policy, executing it ...
```

在上述示例，我们看到网络匹配作为PSTN，用于路由策略“FromPSTN-RPolicy”。

路由Trace示例

```
13:29:13:453 08:17:2017 vCUSP,9.1.5,josmeado-CUSP,14.50.245.9,trace.log
[REQUESTI.7] DEBUG 2017.08.17 13:29:33:987 nrs.XCLNRSShiftRoutes - Entering
ShiftAlgorithms.execute()
[REQUESTI.7] DEBUG 2017.08.17 13:29:33:987 nrs.XCLNRSShiftRoutes - Leaving
ShiftAlgorithms.execute()
[REQUESTI.7] DEBUG 2017.08.17 13:29:33:987 modules.XCLLookup - Entering execute()
[REQUESTI.7] DEBUG 2017.08.17 13:29:33:987 nrs.XCLPrefix - Entering getKeyValue()
[REQUESTI.7] DEBUG 2017.08.17 13:29:33:987 nrs.FieldSelector - getToUri: To header obtained -
To: <sip:2003@14.50.245.9>

[REQUESTI.7] DEBUG 2017.08.17 13:29:33:987 nrs.FieldSelector - getUriPart: URI -
sip:2003@14.50.245.9 part 1
[REQUESTI.7] DEBUG 2017.08.17 13:29:33:987 nrs.FieldSelector - Requested field 52
[REQUESTI.7] DEBUG 2017.08.17 13:29:33:987 nrs.FieldSelector - Returning key 2003
[REQUESTI.7] DEBUG 2017.08.17 13:29:33:987 nrs.XCLPrefix - Leaving getKeyValue()
[REQUESTI.7] DEBUG 2017.08.17 13:29:33:987 modules.XCLLookup - table=PSTN-RT, key=2003
[REQUESTI.7] INFO 2017.08.17 13:29:33:987 modules.XCLLookup - table is PSTN-RT
[REQUESTI.7] DEBUG 2017.08.17 13:29:33:987 routingtables.RoutingTable - Entering lookup()
[REQUESTI.7] DEBUG 2017.08.17 13:29:33:987 routingtables.RoutingTable - Looking up 2003 in table
PSTN-RT with rule prefix and modifiers=none
[REQUESTI.7] DEBUG 2017.08.17 13:29:33:987 routingtables.RoutingTable - Entering
applyModifiers()
[REQUESTI.7] DEBUG 2017.08.17 13:29:33:987 routingtables.RoutingTable - Leaving
applyModifiers(), returning 2003
[REQUESTI.7] DEBUG 2017.08.17 13:29:33:988 routingtables.RoutingTable - Leaving lookup()
[REQUESTI.7] INFO 2017.08.17 13:29:33:988 nrs.XCLPrefix - NRS Routing decision is:
RouteTable:PSTN-RT, RouteKey:2, RouteGroup:CUCM115_RG
[REQUESTI.7] DEBUG 2017.08.17 13:29:33:988 loadbalancer.LBFactory - Entering
createLoadBalancer()
[REQUESTI.7] INFO 2017.08.17 13:29:33:988 loadbalancer.LBFactory - lbtype is 3(call-id)
[REQUESTI.7] DEBUG 2017.08.17 13:29:33:988 loadbalancer.LBFactory - Leaving createLoadBalancer()
[REQUESTI.7] DEBUG 2017.08.17 13:29:33:988 nrs.XCLPrefix - Stored NRSAlgResult=isFound=true,
isFailure=false, Response=-1, Routes=[Ruri: 14.50.245.20:5065:udp, Route: null, Network:
CUCM115, q-value=0.0radvance=[502, 503]], PolicyAdvance=null [REQUESTI.7] DEBUG 2017.08.17
13:29:33:988 nrs.NRSAlgResult - set policyAdvance as specified in route=RouteTable:PSTN-RT,
RouteKey:2, RouteGroup:CUCM115_RG
[REQUESTI.7] DEBUG 2017.08.17 13:29:33:988 nrs.NRSAlgResult - no policyAdvance specified in
route
[REQUESTI.7] DEBUG 2017.08.17 13:29:33:988 nrs.NRSAlgResult - set policyAdvance as specified in
algorithm={lookuprule=1, lookupfield=52, lookuplenght=-1, lookuptable=PSTN-RT, sequence=100,
algorithm=1}
[REQUESTI.7] DEBUG 2017.08.17 13:29:33:988 nrs.NRSAlgResult - no policyAdvance specified in
algorithm
[REQUESTI.7] DEBUG 2017.08.17 13:29:33:988 modules.XCLLookup - Leaving execute()
[REQUESTI.7] DEBUG 2017.08.17 13:29:33:988 nrs.XCLNRSShiftRoutes - Entering
ShiftRoutes.execute()
[REQUESTI.7] DEBUG 2017.08.17 13:29:33:988 loadbalancer.LBBase - Entering getServer()
[REQUESTI.7] DEBUG 2017.08.17 13:29:33:988 loadbalancer.LBBase - Entering initializeDomains()
[REQUESTI.7] DEBUG 2017.08.17 13:29:33:988 nrs.NRSRoutes - routes before applying time policies:
[Ruri: 14.50.245.20:5065:udp, Route: null, Network: CUCM115, q-value=0.0radvance=[502, 503]]
[REQUESTI.7] DEBUG 2017.08.17 13:29:33:988 nrs.NRSRoutes -routes after applying time policies:
[Ruri: 14.50.245.20:5065:udp, Route: null, Network: CUCM115, q-value=0.0radvance=[502, 503]]
[REQUESTI.7] DEBUG 2017.08.17 13:29:33:988 loadbalancer.LBBase - Leaving initializeDomains()
[REQUESTI.7] INFO 2017.08.17 13:29:33:988 loadbalancer.LBHashBased - list of elements in order
on which load balancing is done : Ruri: 14.50.245.20:5065:udp, Route: null, Network: CUCM115, q-
value=0.0radvance=[502, 503],
[REQUESTI.7] DEBUG 2017.08.17 13:29:33:988 loadbalancer.LBBase - Server group route-sg selected
Ruri: 14.50.245.20:5065:udp, Route: null, Network: CUCM115, q-value=0.0radvance=[502, 503]
[REQUESTI.7] DEBUG 2017.08.17 13:29:33:988 loadbalancer.LBBase - Leaving getServer()
[REQUESTI.7] DEBUG 2017.08.17 13:29:33:988 nrs.XCLNRSShiftRoutes - Leaving ShiftRoutes.execute()
```

1.尖顶获得在的关键值对：报头

2.尖顶识别密钥作为2003年

3.尖顶在路由表里查寻密钥

4.尖顶在路由表里匹配一个条目并且识别目的地RouteGroup:CUCM115_RG

5.尖顶应用在teh路由组内的负载均衡

6.尖顶识别在将传送SIP信息的路由组的特定元素

7.尖顶如果适用运用时间策略

8.尖顶确定将传送SIP信息的元素

SIP电线LOG Trace示例

```
13:29:13:453 08:17:2017 vCUSP,9.1.5,josmeado-CUSP,14.50.245.9,trace.log
[REQUESTI.7] DEBUG 2017.08.17 13:29:33:987 nrs.XCLNRSShiftRoutes - Entering
ShiftAlgorithms.execute()
[REQUESTI.7] DEBUG 2017.08.17 13:29:33:987 nrs.XCLNRSShiftRoutes - Leaving
ShiftAlgorithms.execute()
[REQUESTI.7] DEBUG 2017.08.17 13:29:33:987 modules.XCLLookup - Entering execute()
[REQUESTI.7] DEBUG 2017.08.17 13:29:33:987 nrs.XCLPrefix - Entering getKeyValue()
[REQUESTI.7] DEBUG 2017.08.17 13:29:33:987 nrs.FieldSelector - getToUri: To header obtained -
To: <sip:2003@14.50.245.9>

[REQUESTI.7] DEBUG 2017.08.17 13:29:33:987 nrs.FieldSelector - getUriPart: URI -
sip:2003@14.50.245.9 part 1
[REQUESTI.7] DEBUG 2017.08.17 13:29:33:987 nrs.FieldSelector - Requested field 52
[REQUESTI.7] DEBUG 2017.08.17 13:29:33:987 nrs.FieldSelector - Returning key 2003
[REQUESTI.7] DEBUG 2017.08.17 13:29:33:987 nrs.XCLPrefix - Leaving getKeyValue()
[REQUESTI.7] DEBUG 2017.08.17 13:29:33:987 modules.XCLLookup - table=PSTN-RT, key=2003
[REQUESTI.7] INFO 2017.08.17 13:29:33:987 modules.XCLLookup - table is PSTN-RT
[REQUESTI.7] DEBUG 2017.08.17 13:29:33:987 routingtables.RoutingTable - Entering lookup()
[REQUESTI.7] DEBUG 2017.08.17 13:29:33:987 routingtables.RoutingTable - Looking up 2003 in table
PSTN-RT with rule prefix and modifiers=none
[REQUESTI.7] DEBUG 2017.08.17 13:29:33:987 routingtables.RoutingTable - Entering
applyModifiers()
[REQUESTI.7] DEBUG 2017.08.17 13:29:33:987 routingtables.RoutingTable - Leaving
applyModifiers(), returning 2003
[REQUESTI.7] DEBUG 2017.08.17 13:29:33:988 routingtables.RoutingTable - Leaving lookup()
[REQUESTI.7] INFO 2017.08.17 13:29:33:988 nrs.XCLPrefix - NRS Routing decision is:
RouteTable:PSTN-RT, RouteKey:2, RouteGroup:CUCM115_RG
[REQUESTI.7] DEBUG 2017.08.17 13:29:33:988 loadbalancer.LBFactory - Entering
createLoadBalancer()
[REQUESTI.7] INFO 2017.08.17 13:29:33:988 loadbalancer.LBFactory - lbtype is 3(call-id)
[REQUESTI.7] DEBUG 2017.08.17 13:29:33:988 loadbalancer.LBFactory - Leaving createLoadBalancer()
[REQUESTI.7] DEBUG 2017.08.17 13:29:33:988 nrs.XCLPrefix - Stored NRSAlgResult=isFound=true,
isFailure=false, Response=-1, Routes=[Ruri: 14.50.245.20:5065:udp, Route: null, Network:
CUCM115, q-value=0.0radvance=[502, 503]], PolicyAdvance=null [REQUESTI.7] DEBUG 2017.08.17
13:29:33:988 nrs.NRSAlgResult - set policyAdvance as specified in route=RouteTable:PSTN-RT,
RouteKey:2, RouteGroup:CUCM115_RG
[REQUESTI.7] DEBUG 2017.08.17 13:29:33:988 nrs.NRSAlgResult - no policyAdvance specified in
route
[REQUESTI.7] DEBUG 2017.08.17 13:29:33:988 nrs.NRSAlgResult - set policyAdvance as specified in
algorithm={lookuprule=1, lookupfield=52, lookuplength=-1, lookuptable=PSTN-RT, sequence=100,
algorithm=1}
[REQUESTI.7] DEBUG 2017.08.17 13:29:33:988 nrs.NRSAlgResult - no policyAdvance specified in
algorithm
[REQUESTI.7] DEBUG 2017.08.17 13:29:33:988 modules.XCLLookup - Leaving execute()
[REQUESTI.7] DEBUG 2017.08.17 13:29:33:988 nrs.XCLNRSShiftRoutes - Entering
ShiftRoutes.execute()
```

```

[REQUESTI.7] DEBUG 2017.08.17 13:29:33:988 loadbalancer.LBBase - Entering getServer()
[REQUESTI.7] DEBUG 2017.08.17 13:29:33:988 loadbalancer.LBBase - Entering initializeDomains()
[REQUESTI.7] DEBUG 2017.08.17 13:29:33:988 nrs.NRSRoutes - routes before applying time policies:
[Ruri: 14.50.245.20:5065:udp, Route: null, Network: CUCM115, q-value=0.0radvance=[502, 503]]
[REQUESTI.7] DEBUG 2017.08.17 13:29:33:988 nrs.NRSRoutes -routes after applying time policies:
[Ruri: 14.50.245.20:5065:udp, Route: null, Network: CUCM115, q-value=0.0radvance=[502, 503]]
[REQUESTI.7] DEBUG 2017.08.17 13:29:33:988 loadbalancer.LBBase - Leaving initializeDomains()
[REQUESTI.7] INFO 2017.08.17 13:29:33:988 loadbalancer.LBHashBased - list of elements in order
on which load balancing is done : Ruri: 14.50.245.20:5065:udp, Route: null, Network: CUCM115, q-
value=0.0radvance=[502, 503],
[REQUESTI.7] DEBUG 2017.08.17 13:29:33:988 loadbalancer.LBBase - Server group route-sg selected
Ruri: 14.50.245.20:5065:udp, Route: null, Network: CUCM115, q-value=0.0radvance=[502, 503]
[REQUESTI.7] DEBUG 2017.08.17 13:29:33:988 loadbalancer.LBBase - Leaving getServer()
[REQUESTI.7] DEBUG 2017.08.17 13:29:33:988 nrs.XCLNRSShiftRoutes - Leaving ShiftRoutes.execute()

```

SIP电话LOG显示正常SIP消息传送至两个呼叫段的200 Okay。

结构上参考

