

# 目录

[简介](#)

[先决条件](#)

[要求](#)

[使用的组件](#)

[多个目的地在语音拨号对端的模式支持\(从向前15.2\(4\)S\)](#)

[背景信息](#)

[配置](#)

[方法1. CLI](#)

[配置示例](#)

[方法2. 文本文件](#)

[配置示例](#)

[验证](#)

[显示命令](#)

[故障排除](#)

[流入呼叫和被叫号码的多个E.164匹配模式\(从向前15.4\(1\)T\)](#)

[背景信息](#)

[Dial-peer供应顺序](#)

[配置](#)

[验证](#)

[show 与 debug 命令](#)

[故障排除](#)

[目的地Dial-peer组\(从向前15.4\(1\)T\)](#)

[背景信息](#)

[配置](#)

[限制](#)

[配置示例](#)

[验证](#)

[显示命令](#)

[故障排除](#)

[目标服务器组\(从向前15.4\(1\)T\)](#)

[背景信息](#)

[配置](#)

[配置示例](#)

[验证](#)

[show 与 debug 命令](#)

[故障排除](#)

[SIP OOD选项Ping Keepalive组\(从向前15.4\(1\)T\)](#)

[背景信息](#)

[配置](#)

[配置示例](#)

[验证](#)

[show 与 debug 命令](#)

[排除故障？当服务器组配置](#)

[组配置](#)

[关联dial-peer与服务器组和语音类SIP选项Keepalive](#)

[呼出拨号对端供应\(从向前15.4\(2\)T\)](#)

[背景信息](#)

[新的CLIs](#)

[配置](#)

[定义语音中集集团提供策略](#)

[关联语音中集集团对流入的拨号对等体的提供策略](#)

[定义有匹配模式的呼出拨号对端](#)

[定义提供策略](#)

[关联对流入的拨号对等体的提供策略](#)

[定义提供策略](#)

[关联对流入的拨号对等体的提供策略](#)

[呼出拨号对端定义](#)

[配置示例](#)

[验证](#)

[new显示被添加的命令](#)

[故障排除](#)

[相关的思科支持社区讨论](#)

## 简介

本文描述在Cisco Unified Border Element (多维数据集)的多种功能例如多个目的地在语音拨号对端的模式支持，流入呼叫的多个E.164匹配模式和被叫号码，目的地Dial-peer组，目标服务器组，会话初始化协议(SIP)外对话(OOD)选项Ping Keepalive组”，呼出拨号对端供应。

## 先决条件

### 要求

本文档没有任何特定的要求。

### 使用的组件

本文档不限于特定的软件和硬件版本。

## 多个目的地在语音拨号对端的模式支持(从向前15.2(4)S)

## 背景信息

### 最长前缀匹配

在多维数据集和SIP网关上，当一语音拨号对端只有一个目的地模式时，这以大量介绍拨号对端配置，当使用时多个目的地模式。使用支持的多个目的地模式的在dial-peer，配置主要被简单化并且减少。

Dial-peer选择继续根据最长前缀匹配算法。当dial-peer有多个目的地模式时，与长匹配的模式算是dial-peer的匹配的模式。

例如，如果dial-peer A安排两个模式匹配和一个匹配与3个位，并且其他匹配与4个位，此dial-peer算是匹配与4个位。

## E164模式地图

E164模式地图包含多个E164目的地模式。E164地图可以是在一个内部(闪存)或外部位置存储的一个分开的文本文件(TFTP/HTTP服务器)。

CLI -添加E164模式条目到E164模式地图并且存储关于语音网关的所有信息。

文本文件-创建在文本文件的E164模式条目并且存储在支持的内部或外部文件系统的文件。

文本文件加载-文本文件可以容易地更新然后重新加载，使用load命令语音的类E164-pattern-map。

## E164模式地图验证

E164模式地图从拨号对端独立地配置，并且此地图可以无效，如果装载外部文本文件失败或模式是E.164编号的不正确的格式。当地图失败发生时，应该有指示失败的控制台或系统消息。

# 配置

有两种方式创建E164地图。两个方法从语音类E164-pattern-map命令创建和命名E164模式地图开始，然后使用以下选项之一：

## 方法1. CLI

CLI -添加E164模式条目到E164模式地图并且存储关于语音网关的所有信息。

一个文本文件-创建在文本文件的E164模式条目并且存储在支持的内部或外部文件系统的文件。文本文件可以容易地更新然后重新加载通过使用load命令语音的类E64-pattern-map。

## CLI配置

```
CUBE(config)#voice class e164-pattern-map <tag 1-1000>
CUBE(config-class)# ?
VOICECLASS configuration commands:
  description  e164 pattern map specific description
  e164         Set E164 pattern for the map
  exit         Exit from voice class configuration mode
  help        Description of the interactive help system
  no          Negate a command or set its defaults
  url         Set the URL of the file for the map
CUBE(config-class)#e164 <destination pattern 1>
CUBE(config-class)#e164 <destination pattern 2>
?.
CUBE(config-class)#exit
```

Following the creation of the E164 Map, we can link it with the dial-peer as follows :

```
CUBE(config) #dial-peer voice XXX voip
CUBE(config-dial-peer) #destination e164-pattern-map <e164-pattern-map tag>
```

## 配置示例

```
CUBE(config) #voice class e164-pattern-map <tag 1-1000>
CUBE(config-class) # ?
VOICECLASS configuration commands:
  description  e164 pattern map specific description
  e164         Set E164 pattern for the map
  exit         Exit from voice class configuration mode
  help         Description of the interactive help system
  no           Negate a command or set its defaults
  url          Set the URL of the file for the map
CUBE(config-class) #e164 <destination pattern 1>
CUBE(config-class) #e164 <destination pattern 2>
?.
```

```
CUBE(config-class) #exit
```

Following the creation of the E164 Map, we can link it with the dial-peer as follows :

```
CUBE(config) #dial-peer voice XXX voip
CUBE(config-dial-peer) #destination e164-pattern-map <e164-pattern-map tag>
```

### 方法2.文本文件

创建有E164列表的一个文本文件仿造了需要的并且保存它作为.cfg文件如示例所示。

```
CUBE(config) #voice class e164-pattern-map <tag 1-1000>
CUBE(config-class) # ?
VOICECLASS configuration commands:
  description  e164 pattern map specific description
  e164         Set E164 pattern for the map
  exit         Exit from voice class configuration mode
  help         Description of the interactive help system
  no           Negate a command or set its defaults
  url          Set the URL of the file for the map
CUBE(config-class) #e164 <destination pattern 1>
CUBE(config-class) #e164 <destination pattern 2>
?.
```

```
CUBE(config-class) #exit
```

Following the creation of the E164 Map, we can link it with the dial-peer as follows :

```
CUBE(config) #dial-peer voice XXX voip
CUBE(config-dial-peer) #destination e164-pattern-map <e164-pattern-map tag>CUBE(config) #voice
class e164-pattern-map <tag 1-1000>
CUBE(config-class) # ?
```

```
VOICECLASS configuration commands:
  description  e164 pattern map specific description
  e164         Set E164 pattern for the map
  exit         Exit from voice class configuration mode
  help         Description of the interactive help system
  no           Negate a command or set its defaults
  url          Set the URL of the file for the map
CUBE(config-class) #e164 <destination pattern 1>
CUBE(config-class) #e164 <destination pattern 2>
?.
```

```
CUBE(config-class) #exit
```

Following the creation of the E164 Map, we can link it with the dial-peer as follows :

```
CUBE(config) #dial-peer voice XXX voip
CUBE(config-dial-peer) #destination e164-pattern-map <e164-pattern-map tag>
```

为了与模式MAP连接文件，参考此配置。

```
CUBE(config) #voice class e164-pattern-map <tag>
```

```
CUBE(config-class)#?
VOICE-CLASS configuration commands:
  description  e164 pattern map specific description
  e164         Set E164 pattern for the map
  exit         Exit from voice class configuration mode
  help         Description of the interactive help system
  no           Negate a command or set its defaults
  url          Set the URL of the file for the map
CUBE(config-class)#url ?
WORD  URL of the file for the map
CUBE(config-class)#url {tftp:// |http:// |flash: |ftp:// |bootflash: }path/<filename>.cfg
CUBE#voice class e164-pattern-map load <tag>
```

## 配置示例

```
CUBE(config)#voice class e164-pattern-map <tag>
CUBE(config-class)#?
VOICE-CLASS configuration commands:
  description  e164 pattern map specific description
  e164         Set E164 pattern for the map
  exit         Exit from voice class configuration mode
  help         Description of the interactive help system
  no           Negate a command or set its defaults
  url          Set the URL of the file for the map
CUBE(config-class)#url ?
WORD  URL of the file for the map
CUBE(config-class)#url {tftp:// |http:// |flash: |ftp:// |bootflash: }path/<filename>.cfg
CUBE#voice class e164-pattern-map load <tag>
```

## 验证

## 显示命令

验证配置使用命令如显示。

```
CUBE(config)#voice class e164-pattern-map <tag>
CUBE(config-class)#?
VOICE-CLASS configuration commands:
  description  e164 pattern map specific description
  e164         Set E164 pattern for the map
  exit         Exit from voice class configuration mode
  help         Description of the interactive help system
  no           Negate a command or set its defaults
  url          Set the URL of the file for the map
CUBE(config-class)#url ?
WORD  URL of the file for the map
CUBE(config-class)#url {tftp:// |http:// |flash: |ftp:// |bootflash: }path/<filename>.cfg
CUBE#voice class e164-pattern-map load <tag>
```

## 故障排除

在CLI的以下调试可以用于排除故障。

```
CUBE(config)#voice class e164-pattern-map <tag>
CUBE(config-class)#?
VOICE-CLASS configuration commands:
  description  e164 pattern map specific description
  e164         Set E164 pattern for the map
  exit         Exit from voice class configuration mode
  help         Description of the interactive help system
  no           Negate a command or set its defaults
```

```
url          Set the URL of the file for the map
CUBE(config-class)#url ?
WORD URL of the file for the map
CUBE(config-class)#url {tftp:// |http:// |flash: |ftp:// |bootflash: }path/<filename>.cfg
CUBE#voice class e164-pattern-map load <tag>
```

发出呼叫给呼出拨号对端用目标号码101234在与E164地图1000联接的dial-peer 100如显示。

```
CUBE(config)#voice class e164-pattern-map <tag>
CUBE(config-class)#?
VOICE-CLASS configuration commands:
description e164 pattern map specific description
e164        Set E164 pattern for the map
exit        Exit from voice class configuration mode
help        Description of the interactive help system
no          Negate a command or set its defaults
url         Set the URL of the file for the map
CUBE(config-class)#url ?
WORD URL of the file for the map
CUBE(config-class)#url {tftp:// |http:// |flash: |ftp:// |bootflash: }path/<filename>.cfg
CUBE#voice class e164-pattern-map load <tag>
```

## 流入呼叫和被叫号码的多个E.164匹配模式(从向前15.4(1)T)

### 背景信息

E164-pattern-map功能可能也用于匹配在流入的拨号对等体的呼叫和被叫号码。

介绍在多维数据集10.0

### Dial-peer供应顺序

- 被叫号码匹配incoming called-number或流入呼叫的E164-pattern-map。
- 呼叫号码匹配answer-address或流入呼叫的E164-pattern-map。
- 与目的地模式的呼叫号码匹配。

### 配置

```
CUBE(config)#voice class e164-pattern-map <tag>
CUBE(config-class)#?
VOICE-CLASS configuration commands:
description e164 pattern map specific description
e164        Set E164 pattern for the map
exit        Exit from voice class configuration mode
help        Description of the interactive help system
no          Negate a command or set its defaults
url         Set the URL of the file for the map
CUBE(config-class)#url ?
WORD URL of the file for the map
CUBE(config-class)#url {tftp:// |http:// |flash: |ftp:// |bootflash: }path/<filename>.cfg
CUBE#voice class e164-pattern-map load <tag>
```

### 验证

#### show 与 debug 命令

显示配置使用命令如显示。  
CUBE(config-class)#?

VOICE-CLASS configuration commands:

```
description e164 pattern map specific description
e164        Set E164 pattern for the map
exit        Exit from voice class configuration mode
help        Description of the interactive help system
no          Negate a command or set its defaults
url         Set the URL of the file for the map
```

CUBE(config-class)#url ?

WORD URL of the file for the map

CUBE(config-class)#url {tftp:// |http:// |flash: |ftp:// |bootflash: }path/<filename>.cfg

CUBE#voice class e164-pattern-map load <tag>

## debug 命令

验证配置使用命令如显示。

```
CUBE(config)#voice class e164-pattern-map <tag>
```

```
CUBE(config-class)#?
```

VOICE-CLASS configuration commands:

```
description e164 pattern map specific description
e164        Set E164 pattern for the map
exit        Exit from voice class configuration mode
help        Description of the interactive help system
no          Negate a command or set its defaults
url         Set the URL of the file for the map
```

CUBE(config-class)#url ?

WORD URL of the file for the map

CUBE(config-class)#url {tftp:// |http:// |flash: |ftp:// |bootflash: }path/<filename>.cfg

CUBE#voice class e164-pattern-map load <tag>

## 故障排除

目前没有针对此配置的故障排除信息。

## 目的地Dial-peer组(从

### 背景信息

在分组功能的Dial-peer， dial-peer的一组可以做dial-peer组的部分在语音下的把dpg <tag>分类

目的地dpg <tag>将用于参考从流入的拨号对等体的一dial-peer组。

一旦流入的拨号对等体匹配， dial-peer， 是dpg部分和定义在它下， 使用在特定的呼叫的出局拨号对等体匹配。

1. 排序目标dpg dial-peer的全局dial-peer hunt line命令支持按顺序。因此， 因为呼叫号码没有用于选择呼出拨号对端， 长匹配匹配的位为dpg dial-peer不再是重大的。同一个值编号匹配的位(0)在dial-peer hunt排序期间， 为所有dpg dial-peer应用。
2. Dial-peer搜索终止line命令为在呼出呼叫的进一步搜索不设置huntstop从最后失败的呼出呼叫设置一次被找到语音类dpg <tag>的dial-peer支持。
3. 限制(COR)和限制(LPCOR)验证dpg的支持dial-peer的逻辑分区中集集团中集集团
4. 显示Dialplan dialpeer <in-peer-tag>编号<called-number>命令支持一dpg的目标dial-peer列表从呼入拨号对端的。

- 一旦VoIP拨号对等体由不同的dial-peer组参考，同一dial-peer为dial-peer供应是可用的。
- 关闭line命令能放置dpg到非活动状态。一旦呼入呼叫关联与一非激活dpg，传统呼出拨号对端供应为新的呼入呼叫将恢复。
- 呼入呼叫阻塞，如果关联与与空目标dial-peer的一活动dpg或所有目标dial-peer在状态状态发生故障的操作。

## 配置

```
CUBE(config)#voice class e164-pattern-map <tag>
CUBE(config-class)#?
VOICE-CLASS configuration commands:
  description  e164 pattern map specific description
  e164         Set E164 pattern for the map
  exit         Exit from voice class configuration mode
  help         Description of the interactive help system
  no           Negate a command or set its defaults
  url          Set the URL of the file for the map
CUBE(config-class)#url ?
  WORD  URL of the file for the map
CUBE(config-class)#url {tftp:// |http:// |flash: |ftp:// |bootflash: }path/<filename>.cfg
CUBE#voice class e164-pattern-map load <tag>
```

## 限制

```
CUBE(config)#voice class e164-pattern-map <tag>
CUBE(config-class)#?
VOICE-CLASS configuration commands:
  description  e164 pattern map specific description
  e164         Set E164 pattern for the map
  exit         Exit from voice class configuration mode
  help         Description of the interactive help system
  no           Negate a command or set its defaults
  url          Set the URL of the file for the map
CUBE(config-class)#url ?
  WORD  URL of the file for the map
CUBE(config-class)#url {tftp:// |http:// |flash: |ftp:// |bootflash: }path/<filename>.cfg
CUBE#voice class e164-pattern-map load <tag>
```

### 在dial-peer设置下

```
CUBE(config)#voice class e164-pattern-map <tag>
CUBE(config-class)#?
VOICE-CLASS configuration commands:
  description  e164 pattern map specific description
  e164         Set E164 pattern for the map
  exit         Exit from voice class configuration mode
  help         Description of the interactive help system
  no           Negate a command or set its defaults
  url          Set the URL of the file for the map
CUBE(config-class)#url ?
  WORD  URL of the file for the map
CUBE(config-class)#url {tftp:// |http:// |flash: |ftp:// |bootflash: }path/<filename>.cfg
CUBE#voice class e164-pattern-map load <tag>
```

## 配置示例

```
CUBE(config)#voice class e164-pattern-map <tag>
CUBE(config-class)#?
VOICE-CLASS configuration commands:
  description  e164 pattern map specific description
```



```
e164          Set E164 pattern for the map
exit          Exit from voice class configuration mode
help          Description of the interactive help system
no            Negate a command or set its defaults
url           Set the URL of the file for the map
CUBE(config-class)#url ?
WORD         URL of the file for the map
CUBE(config-class)#url {tftp:// |http:// |flash: |ftp:// |bootflash: }path/<filename>.cfg
CUBE#voice class e164-pattern-map load <tag>
```

## 验证

### 显示命令

```
Show voice class dpg <tag>
Ex. CUBE#show voice class dpg 21
Voice class dpg: 21      AdminStatus: Up
Description:
Total dial-peer entries: 4
Peer Tag                Pref
-----
1                        0
2                        0
104                      0
1000                    0
```

## 故障排除

Debug voip dialpeer可以用于调试为了识别DPG选择和dial-peer列表在匹配目的地模式的DPG下。

```
Show voice class dpg <tag>
Ex. CUBE#show voice class dpg 21
Voice class dpg: 21      AdminStatus: Up
Description:
Total dial-peer entries: 4
Peer Tag                Pref
-----
1                        0
2                        0
104                      0
1000                    0
```

## 目标服务器组(从

### 背景信息

当呼入呼叫要求通过不同的目的地时，寻找广泛呼出拨号对端定义。每个目的地要求一分开的呼出拨号对端设置，即使使用同一呼叫功能设置。

目标服务器组支持在一个新的语音类服务器组<tag>设置可以定义的多个目的地。

SIP dial-peer能由个新会话服务器组<tag> line命令参考服务器组。

当有服务器组的一SIP dial-peer选择作为呼出拨号对端时，服务器组的目的地然后用于呼出呼叫设置。

新的OOD选项Ping Keepalive组支持有服务器组的一SIP dial-peer作为session target。独立的选项Ping Keepalive连接在服务器组的每个远程目标被建立。dial-peer放置使忙碌状态All选项Ping服务器组的Keepalive连接是否是超时。

OOD选项Keepalive (与分开的OOD选项Keepalive连接每dial-peer)方法不支持服务器组。

一旦服务器组被参考作为呼出拨号对端的目标，ipv4/ipv6服务器组的IP地址能变为ip信任的地址。客户能使用list命令显示IP地址的信任检查ip信任的地址列表。

域名服务器(DNS) session target不支持作为服务器组的目标。

## 配置

Show voice class dpg <tag>

Ex. CUBE#show voice class dpg 21

Voice class dpg: 21 AdminStatus: Up

Description:

Total dial-peer entries: 4

Peer Tag	Pref
----------	------

-----

1	0
---	---

2	0
---	---

104	0
-----	---

1000	0
------	---

-----Note: Up to 10000 ?voice class server-group <tag>? can be defined per system.

## 配置示例

Note: Up to 10000 ?voice class server-group <tag>? can be defined per system.

- 5个session target IP地址可以保存对语音类服务器组。它可以是IPv4或IPv6或者两个的组合。
- 万一IPv4和IPv6地址被添加，请保证协议模式设置为双协议栈。
- 寻线方案循环命令可以定义排序session target条目列表按改写首选设定的循环顺序。默认情况下， preference命令的寻线方案用于排序基于其首选设置。
- 首选<0-5> line命令可以为每个session target地址定义。
- 当preference命令默认的寻线方案定义，与同样首选的Session target条目按顺序随机顺序将排序。
- 关闭line命令能放置服务器组到非活动状态。有一个服务器组的任何SIP dial-peer在非活动状态没有选择作为呼出拨号对端。
- 使用没有语音类服务器组<tag>命令时，当服务器组删除，所有VoIP拨号对等体关联与此组由会话组line命令删除的<tag>。

## 验证

### show 与 debug 命令

1. show voice class server-group 1

## 故障排除

目前没有在针对此配置的故障排除信息。

## 相关链接

### 选项Ping Keepalive组(从

存在SIP外对话(OOD)选项ping功能提供保活机制在SIP级别和其SIP dial-peer目的地。分开的SIP OOD选项Ping连接为每激活SIP dial-peer被建立，即使同样目标保存用不同的SIP dial-peer。

此功能通过分组有同样OOD选项Ping设置的SIP dial-peer统一SIP OOD选项Ping连接。

—新的语音类SIP Keepalive配置文件<tag>命令用于定义OOD选项Ping设置。

从SIP dial-peer的新的语音类sip选项Keepalive配置文件<tag> line命令被添加参考新配置文件。

统一的SIP OOD选项Ping连接用广泛SIP dial-peer的一个目标然后建立用同一个目标，并且OOD选项ping配置文件设置。

相关的dial-peer再按乒乓键到根据选项Ping Keepalive连接状态的状态的激活和输出忙状态。

- 10000语音类SIP选项Keepalive <tag>可以每个系统定义。
- 子命令如显示从每SIP选项Keepalive配置文件定义：说明，传输{tcp [tls]， udp}，语音类SIP配置文件<tag>，关闭，重试次数<count>，间隔<seconds>，下来间隔<seconds>
- shutdown命令能放置SIP选项Keepalive配置文件到非活动状态。所有相关OOD选项ping Keepalive连接然后被暂停。相关SIP dial-peer更新到活动状态。
- 使用没有语音类SIP选项Keepalive <tag>命令时，当选项Keepalive配置文件删除，所有VoIP拨号对等体关联与此配置文件由语音类sip选项Keepalive配置文件<tag> line命令删除。
- new显示SIP选项Keepalive的语音类{<tag>}支持SIP选项Keepalive配置文件设置，并且实时dial-peer OOD选项ping连接状态信息。
- 当所有目标的选项ping连接在服务器组中计时时，所有SIP dial-peer关联与此服务器组在输出忙状态安置。
- 新的SIP dial-peer语音类sip选项Keepalive配置文件<tag> line命令是与现有语音类sip选项Keepalive [下来间隔<value>的相互排除]。
- 使用OOD选项Ping Keepalive组，选项ping Keepalive连接每个远程目标基础被建立。然而，在传统选项ping的选项ping Keepalive连接每个dial-peer基础被建立。
- 当同样目标在多个拨号对等体时，定义OOD选项Ping应该使用Keepalive组。

## 配置

```
show voice class server-group 1
```

### 配置示例

```
show voice class server-group 1show voice class server-group 1
```

此示例显示SIP选项设置阻塞的Keepalive配置文件，当传统sip选项Keepalive已经定义时。

```
CUBE(config)#dial-peer voice 4002 voip
CUBE(config-dial-peer)#session protocol sipv2
CUBE(config-dial-peer)#voice-class sip options-keepalive ?
  down-interval  OPTIONS keepalive timer interval for DOWN endpoint
  profile          Consolidate Options Keepalive profile setup
  retry            Retry count for OPTIONS keepalive retransmission
  up-interval     OPTIONS keepalive timer interval for UP endpoint
  <cr>
CUBE(config-dial-peer)#voice-class sip options-keepalive
CUBE(config-dial-peer)#voice-class sip options-keepalive profile 1
```

```
%ERROR: "voice-class sip-options-keepalive" is already defined
```

## 验证

### show 与 debug 命令

1. `sh voice class sip-options-keepalive 1`
2. `sh dial-peer voice summary`

## 排除故障？当服务器组配置

### 组配置

```
ASR_DP_N2#sh run | sec voice class
voice class server-group 1
  ipv4 10.104.45.253
  ipv4 9.44.44.9
  ipv4 10.104.45.31
```

```
Voice class sip-options-keepalive configuration
voice class sip-options-keepalive 1
  transport udp
```

### 关联dial-peer与服务器组和语音类SIP选项Keepalive

```
ASR_DP_N2#sh run | sec dial-peer
dial-peer voice 1 voip
  destination-pattern 6666
  session protocol sipv2
  session transport udp
  session server-group 1
  voice-class sip options-keepalive profile 1
```

```
ASR_DP_N2#sh voice class sip-options-keepalive
```

```
Voice class sip-options-keepalive: 1 AdminStat: Up
```

```
Transport: udp Sip Profiles: 0
```

```
Interval(seconds) Up: 60 Down: 30
```

```
Retry: 5
```

Peer Tag	Server Group	OOD SessID	OOD Stat	IfIndex
----------	--------------	------------	----------	---------

1	1		Active	10
---	---	--	--------	----

```
Server Group: 1 OOD Stat: Active
```

```
OOD SessID OOD Stat
```

```
-----
```

```
14 Active
```

```
15 Busy
```

```
16 Busy
```

```
OOD SessID: 14 OOD Stat: Active
```

```
Target: ipv4:10.104.45.253
```

```
Transport: udp Sip Profiles: 0
```

```
OOD SessID: 15 OOD Stat: Busy
```

```
Target: ipv4:9.44.44.9
```

```
Transport: udp Sip Profiles: 0
```

```
OOD SessID: 16 OOD Stat: Busy
```

```
Target: ipv4:10.104.45.31
```

```
Transport: udp Sip Profiles: 0
```

```
ASR_DP_N2#sh dial-peer voice summary
```

```
dial-peer hunt 0
AD PRE PASS OUT
TAG TYPE MIN OPER PREFIX DEST-PATTERN FER THRU SESS-TARGET STAT PORT
KEEPALIVE
1 voip up up 6666 0 syst active
```

# 呼出拨号对端供应(从

## 背景信息

当前呼出拨号对端供应限制对是静态的，并且不可能被修改根据拨号计划需求设置的以下拨号对端匹配模式：

- 目的地被叫号码
- destination uri (主机/模式/用户ID/电话)
- 载波id目标

现有呼出拨号对端供应匹配顺序：

- Destination uri和目标载波ID
- 被叫号码和目标载波ID
- Destination uri
- 被叫号码
- 目标载波ID

一项静态dial-peer提供的策略不能为所有客户拨号计划需求满足。

新的出局拨号对等体匹配归因于支持：

- 通过
- 从
- 转换
- 参考由
- 主叫号码
- 新的用户定义的呼出拨号对端提供策略每个呼入呼叫基础
- 提供策略包含两个规则保存匹配属性和其优先
- 两个匹配属性可以从提供策略的每个规则定义
- 一旦关联对一次流入VoIP呼叫，提供策略设置将用于匹配呼出拨号对端。
- 出局拨号对等体匹配属性列表支持以下提供策略

```
ASR_DP_N2#sh dial-peer voice summary
```

```
dial-peer hunt 0
```

TAG	TYPE	MIN	OPER	PREFIX	DEST-PATTERN	PRE	PASS	FER	THRU	SESS-TARGET	OUT	STAT	PORT
1	voip	up	up		6666	0	syst						active

## 新的CLIs

```
1. voice class dial-peer provision-policy <tag>
```

一新的全局语音类dial-peer提供策略<tag>配置文件将被添加保存一套拨号对端匹配属性在呼出拨号对端供应期间，并且是命令使用。

以下命令行在这中将被嵌入新建的语音类：

## 1. 说明

2. 首选<1 ?2> <match-attribute> [<match-attribute>] 两个规则可以定义从策略。每个规则有最大数量两匹配属性。匹配属性关键字列表：呼叫，呼叫，载波id，转换，从，参考由，对，uri，通过

3. shutdown 当提供策略被关闭，传统呼出拨号对端供应为呼入呼叫将恢复

### 1. destination provision-policy <tag>

从VoIP拨号对等体的一新的line命令定义呼入呼叫的提供策略。

## 配置

### 定义语音中集集团提供策略

```
CUBE(config)#voice class dial-peer provision-policy ?
<1-10000> Voice class dialpeer provision policy tag
CUBE(config)#voice class dial-peer provision-policy 1
CUBE(config-class)#?
```

VOICECLASS configuration commands:

```
description Description of a dialpeer provision-policy
exit Exit from voice class configuration mode
help Description of the interactive help system
no Negate a command or set its defaults
preference Add a dial-peer provision policy preference rule
shutdown Put a dial-peer provision policy to inactive state
```

CUBE(config-class)#preference ?

```
<1-2> Preference order
```

CUBE(config-class)#preference 1 ?

```
called Match called number calling Match calling number carrier-id Match carrier id
diversion Match diversion uri from Match from uri referred-by Match referred-by uri
to Match to uri uri Match destination uri via Match via ur
```

## 关联

```
CUBE(config)#voice class dial-peer provision-policy ?
<1-10000> Voice class dialpeer provision policy tag
CUBE(config)#voice class dial-peer provision-policy 1
CUBE(config-class)#?
```

VOICECLASS configuration commands:

```
description Description of a dialpeer provision-policy
exit Exit from voice class configuration mode
help Description of the interactive help system
no Negate a command or set its defaults
preference Add a dial-peer provision policy preference rule
shutdown Put a dial-peer provision policy to inactive state
```

CUBE(config-class)#preference ?

```
<1-2> Preference order
```

CUBE(config-class)#preference 1 ?

```
called Match called number calling Match calling number carrier-id Match carrier id
diversion Match diversion uri from Match from uri referred-by Match referred-by uri
to Match to uri uri Match destination uri via Match via ur
```

### 定义有匹配模式的呼出拨号对端

```
CUBE(config)#voice class dial-peer provision-policy ?
<1-10000> Voice class dialpeer provision policy tag
CUBE(config)#voice class dial-peer provision-policy 1
CUBE(config-class)#?
```

VOICECLASS configuration commands:

```
description Description of a dialpeer provision-policy
```

```

exit          Exit from voice class configuration mode
help          Description of the interactive help system
no            Negate a command or set its defaults
preference    Add a dial-peer provision policy preference rule
shutdown      Put a dial-peer provision policy to inactive state
CUBE(config-class)#preference ?
<1-2> Preference order
CUBE(config-class)#preference 1 ?
called        Match called number calling Match calling number carrier-id Match carrier id
diversion     Match diversion uri from Match from uri referred-by Match referred-by uri
to            Match to uri          uri      Match destination uri    via Match via ur

```

## 定义提供策略

```

CUBE(config)#voice class dial-peer provision-policy ?
<1-10000> Voice class dialpeer provision policy tag
CUBE(config)#voice class dial-peer provision-policy 1
CUBE(config-class)#?
VOICECLASS configuration commands:
description   Description of a dialpeer provision-policy
exit          Exit from voice class configuration mode
help          Description of the interactive help system
no            Negate a command or set its defaults
preference    Add a dial-peer provision policy preference rule
shutdown      Put a dial-peer provision policy to inactive state
CUBE(config-class)#preference ?
<1-2> Preference order
CUBE(config-class)#preference 1 ?
called        Match called number calling Match calling number carrier-id Match carrier id
diversion     Match diversion uri from Match from uri referred-by Match referred-by uri
to            Match to uri          uri      Match destination uri    via Match via ur

```

## 关联对流入的拨号对等体的提供策略

```

CUBE(config)#voice class dial-peer provision-policy ?
<1-10000> Voice class dialpeer provision policy tag
CUBE(config)#voice class dial-peer provision-policy 1
CUBE(config-class)#?
VOICECLASS configuration commands:
description   Description of a dialpeer provision-policy
exit          Exit from voice class configuration mode
help          Description of the interactive help system
no            Negate a command or set its defaults
preference    Add a dial-peer provision policy preference rule
shutdown      Put a dial-peer provision policy to inactive state
CUBE(config-class)#preference ?
<1-2> Preference order
CUBE(config-class)#preference 1 ?
called        Match called number calling Match calling number carrier-id Match carrier id
diversion     Match diversion uri from Match from uri referred-by Match referred-by uri
to            Match to uri          uri      Match destination uri    via Match via ur

```

## 定义提供策略

```

CUBE(config)#voice class dial-peer provision-policy ?
<1-10000> Voice class dialpeer provision policy tag
CUBE(config)#voice class dial-peer provision-policy 1
CUBE(config-class)#?
VOICECLASS configuration commands:
description   Description of a dialpeer provision-policy
exit          Exit from voice class configuration mode
help          Description of the interactive help system
no            Negate a command or set its defaults
preference    Add a dial-peer provision policy preference rule

```

```

shutdown      Put a dial-peer provision policy to inactive state
CUBE(config-class)#preference ?
<1-2> Preference order
CUBE(config-class)#preference 1 ?
called      Match called number calling Match calling number carrier-id Match carrier id
diversion Match diversion uri from Match from uri referred-by Match referred-by uri
to          Match to uri          uri Match destination uri   via Match via ur

```

## 关联对流入的拨号对等体的提供策略

```

CUBE(config)#voice class dial-peer provision-policy ?
<1-10000> Voice class dialpeer provision policy tag
CUBE(config)#voice class dial-peer provision-policy 1
CUBE(config-class)#?
VOICECLASS configuration commands:
description  Description of a dialpeer provision-policy
exit         Exit from voice class configuration mode
help         Description of the interactive help system
no           Negate a command or set its defaults
preference  Add a dial-peer provision policy preference rule
shutdown     Put a dial-peer provision policy to inactive state
CUBE(config-class)#preference ?
<1-2> Preference order
CUBE(config-class)#preference 1 ?
called      Match called number calling Match calling number carrier-id Match carrier id
diversion Match diversion uri from Match from uri referred-by Match referred-by uri
to          Match to uri          uri Match destination uri   via Match via ur

```

## 呼出拨号对端定义

```

CUBE(config)#voice class dial-peer provision-policy ?
<1-10000> Voice class dialpeer provision policy tag
CUBE(config)#voice class dial-peer provision-policy 1
CUBE(config-class)#?
VOICECLASS configuration commands:
description  Description of a dialpeer provision-policy
exit         Exit from voice class configuration mode
help         Description of the interactive help system
no           Negate a command or set its defaults
preference  Add a dial-peer provision policy preference rule
shutdown     Put a dial-peer provision policy to inactive state
CUBE(config-class)#preference ?
<1-2> Preference order
CUBE(config-class)#preference 1 ?
called      Match called number calling Match calling number carrier-id Match carrier id
diversion Match diversion uri from Match from uri referred-by Match referred-by uri
to          Match to uri          uri Match destination uri   via Match via ur

```

## 配置示例

```

voice class dial-peer provision-policy 100
description match only called
preference 1 called
voice class dial-peer provision-policy 101
description match both calling and called
preference 2 calling called
voice class dial-peer provision-policy 102
description match calling first; if no match then match called
preference 1 calling
preference 2 called
voice class dial-peer provision-policy 200
description match both referred-by and via header; if no match then match dest-uri
preference 1 referred-by via
preference 2 dest-uri

```



## 验证

### new显示被添加的命令

1. `show voice class dial-peer provision-policy`

新显示语音类[<tag>]被添加显示路由策略配置文件设置和它当前状态的路由策略

显示示例显示。

```
show voice class dial-peer provision-policy
```

## 故障排除

在调试帮助将启用的日志。

- `show voice class dial-peer provision-policy`

显示那些是有用调试的命令。

- `show voice class dial-peer provision-policy`

调试根据呼叫号码的拨号对端匹配的日志

```
Nov 5 12:39:41.836 IST: //-1/136B8196800E/DPM/dpMatchPeersCore: Calling Number=1111000010, Called Number=2084, Peer Info Type=DIALPEER_INFO_SPEECH
Nov 5 12:39:41.836 IST: //-1/136B8196800E/DPM/dpMatchDestDPPProvPolicy: Calling Number=1111000010, Called Number=2084, DPPProvPolicy=1 ---> Voice Class Provision Policy used for Outbound Dial Peer Selection
```

```
Nov 5 12:39:41.836 IST: //-1/136B8196800E/DPM/dpMatchDestDPPProvPolicy: Result=Success(0) after DP_MATCH_DEST_CALLING ---> Match Attribute used for Dial Peer Selection
Nov 5 12:39:41.836 IST: //-1/136B8196800E/DPM/dpMatchPeersCore: Result=SUCCESS(0) after DestDPPProvPolicy
Nov 5 12:39:41.836 IST: //-1/136B8196800E/DPM/dpMatchSafModulePlugin: dialstring=2084, saf_enabled=0, saf_dndb_lookup=1, dp_result=0
Nov 5 12:39:41.836 IST: //-1/136B8196800E/DPM/dpMatchPeersMoreArg: Result=SUCCESS(0) List of Matched Outgoing Dial-peer(s): 1: Dial-peer Tag=302 ---> Outbound Dial-peer used for call routing
```

**Debug logs for Dial Peer match based on VIA URI**

```
Nov 5 12:46:42.069 IST: //-1/0DE5FAC48062/DPM/dpMatchPeersCore: Calling Number=, Called Number=2084, Peer Info Type=DIALPEER_INFO_SPEECH
Nov 5 12:46:42.069 IST: //-1/0DE5FAC48062/DPM/dpMatchDestDPPProvPolicy: Calling Number=, Called Number=2084, DPPProvPolicy=1 ---> Voice Class Provision Policy used for Outbound Dial Peer Selection
Nov 5 12:46:42.069 IST: //-1/0DE5FAC48062/DPM/dpMatchDestDPPProvPolicy: Result=Success(0) after DP_MATCH_DEST_VIA_URI ---> Match Attribute used for Dial Peer Selection
Nov 5 12:46:42.069 IST: //-1/0DE5FAC48062/DPM/dpMatchPeersCore: Result=SUCCESS(0) after DestDPPProvPolicy
Nov 5 12:46:42.069 IST: //-1/0DE5FAC48062/DPM/dpMatchSafModulePlugin: dialstring=2084, saf_enabled=0, saf_dndb_lookup=1, dp_result=0
Nov 5 12:46:42.069 IST: //-1/0DE5FAC48062/DPM/dpMatchPeersMoreArg: Result=SUCCESS(0) List of Matched Outgoing Dial-peer(s):
1: Dial-peer Tag=302 ---> Outbound Dial-peer used for call routing
```