

# 如何使用客戶語音門戶(CVP)的中繼利用率功能進行部署和配置

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## 簡介

本文檔介紹如何使用CVP部署和配置中繼使用功能。

## 必要條件

### 需求

思科建議您瞭解以下主題：

- CVP
- 語音閘道

### 採用元件

本文件所述內容不限於特定軟體和硬體版本。

本文中的資訊是根據特定實驗室環境內的裝置所建立。文中使用到的所有裝置皆從已清除（預設）的組態來啟動。如果您的網路運作中，請確保您瞭解任何指令可能造成的影響。

### 中繼利用率功能概述

```
CVP(ICM)0(DS0)(DSP)(CPU)CVPCVP
```

```
·CPU DS0 DSP(SIP) CVP
```

```
·Cisco IOS(CLI)
```

```
·SIP OPTIONS Out-of-Service = true  
OPTIONS Out-of-Service = false
```

```
·(RAI) (CCE)(PSTN) ICM(NIC) CVP
```

## DS0

Unified ICMCVPSIPDS0 ICMPSTNDS0

·Unified CCETrunkGroupIDTrunkGroupChannelNum

PSTNSIP INVITEPSTN

Via: SIP/2.0/UDP

192.168.1.79:5060;x-route-tag="tgrp:2811-b-000";x-ds0num="ISDN 0/0/0:15

0/0/0:DS1 1:DS0";branch

Unified CVPPSTNUnified ICM:

·TrunkGroupIDtgrp:**x-route-tag**

#tgrp:tgrpTrunkGroupID=value:> + <ISDNDS1> TrunkGroupID = 2811-b-000<space>0/0/0:15 0/0/0

# TrunkGroupID = <VialP> + <ISDNDS1>

TrunkGroupID=192.168.1.79<space>0/0/0:15 0/0/0

· TrunkGroupChannelNum**x-ds0num**DS0

#TrunkGroupChannelNum = <DS0>>·TrunkGroupChannelNum = 1

# TrunkGroupChannelNum = <max int value>DS0

#TrunkGroupChannelNum = Integer.MAX\_VALUE(2^31 - 1)

## 中繼利用率的使用

IOS 15.1(2)及更高版本引入了收費欺詐防護。建議對網關上的RAI資源設定使用60%低水位線和80%高水位線。

IOS網關配置示例：

```
voice class resource-group 1
  resource cpu 1-min-avg threshold high 80 low 60
  resource ds0
  resource dsp
  resource mem total-mem
  periodic-report interval 30
```

sip-ua

rai target ipv4:<**ip address of CVP server**> resource-group 1

*#configure this for each CVP server.*

## potsTRUNKDS0

```
dial-peer voice 10 pots
  destination-pattern 10T
  port 1/0:23
```

```
!  
dial-peer voice 11 pots  
destination-pattern 11T  
port 1/1:23  
!  
dial-peer voice 20 pots  
destination-pattern 20T  
port 2/0:23  
!  
dial-peer voice 21 pots  
destination-pattern 21T  
port 2/1:23  
!  
dial-peer voice 30 pots  
destination-pattern 30T  
port 3/0:23  
!  
dial-peer voice 31 pots  
destination-pattern 31T  
port 3/1:23  
!  
dial-peer voice 40 pots  
destination-pattern 40T  
port 4/0:23  
!  
dial-peer voice 41 pots  
destination-pattern 41T  
port 4/1:23
```

#### RAIOPTIONS

OPTIONS sip:20.20.205.223:5060 SIP/2.0

Date: Fri, 01 Jun 2016 02:11:04 GMT

From: <sip:20.20.205.1>;tag=1AF2C70-792

**X-cisco-rai: SYSTEM ; almost-out-of-resource=false;identity=20.20.205.1**

**X-cisco-rai: CPU ; almost-out-of-resource=false;available=99%;total=100%;used=1%**

**X-cisco-rai: DS0 ; almost-out-of-resource=false;available=23;total=23;used=0%**

**X-cisco-rai: DSP ; almost-out-of-resource=false;available=384;total=384;used=0%**

**X-cisco-rai: MEM ; almost-out-of-resource=false;available=86%;total=100%;used=14%**

Supported: x-cisco-rai

Content-Length: 0

User-Agent: Cisco-SIPGateway/IOS-12.x

To: <sip:20.20.205.223>

Contact: <sip:20.20.205.1:5060>

Call-ID: DD292D1E-839A98AF-9DD011DE-29B4F520@10.86.129.44

Via: SIP/2.0/UDP 20.20.205.1:5060;branch=z9hG4bK3931109

CSeq: 101 OPTIONS

Max-Forwards: 70

# CVPICM

## 1. Operate Administrative Maintain Provision(OAMP)

### Cisco Unified Customer Voice Portal

System ▾ Device Management ▾ User Management ▾ Bulk Administration ▾ SNMP ▾ Tools ▾ Help ▾

#### Edit Gateway Configuration

 Save  Statistics  IOS Commands  File Transfer  Help

General **Device Pool**

#### General

IP Address: \*

Hostname: \*

Device Type:  ▾

Description:

Trunk Group ID:

Location ID:

Enable secure communication with the Ops console:

\* Required.

<sup>1</sup> Clicking Test Sign-in does not save modified Username and Passwords. To save modified Username and Passwords, click Save.

## 2. ICM

#### Trunk Utilization

Enable Gateway Trunk Reporting: <sup>1</sup>

Maximum Gateway Ports: <sup>1</sup>

#### Associate Gateway(s)

##### Available

##### Selected <sup>1</sup>

## 3. SIP subsystem2

Generic Type Descriptor (GTD) Parameter Forwarding:

Prepend digits:  ▾

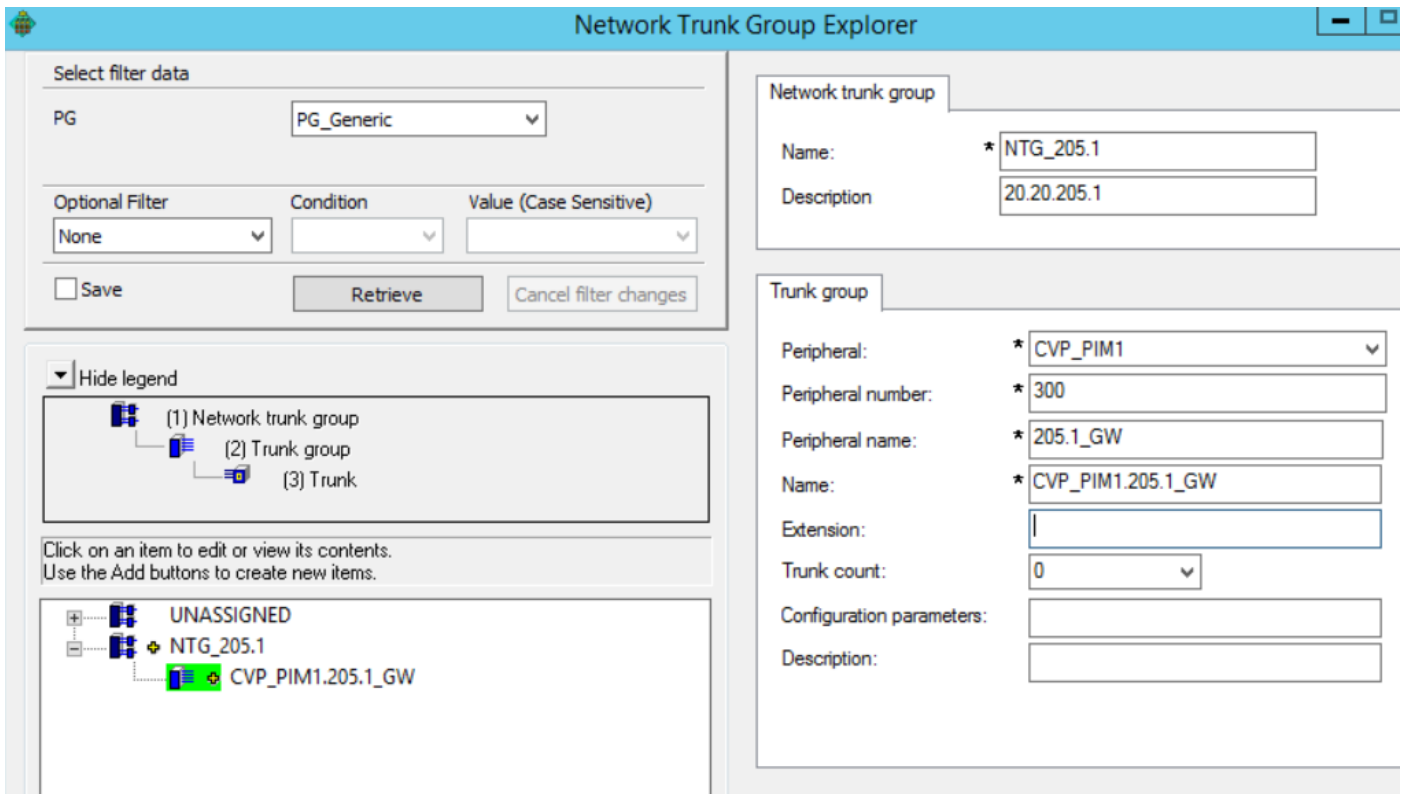
UDP Retransmission Count:  ▾

Use Error Refer:

IOS Gateway Options Dynamic Routing:

IOS Gateway Options Reporting:

## 4. ICM



附註：使用與CVP OAMP端的中繼組ID相同的外圍裝置編號。