

CUCM非安全SCCP与CUC集成的配置示例

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简介

本文档介绍使用瘦呼叫控制协议(SCCP)将Cisco Unified Communication Manager(CUCM)与Cisco Unity Connection(CUC)集成的过程。在本例中，SCCP集成是不安全的。

先决条件

要求

Cisco 建议您了解以下主题：

- CUCM
- CUC

使用的组件

本文档中的信息基于以下软件和硬件版本：

- CUCM 8.x及更高版本
- CUC 8.x及更高版本

本文档中的信息都是基于特定实验室环境中的设备编写的。本文档中使用的所有设备最初均采用原始（默认）配置。如果您的网络处于活动状态，请确保您了解所有命令的潜在影响。

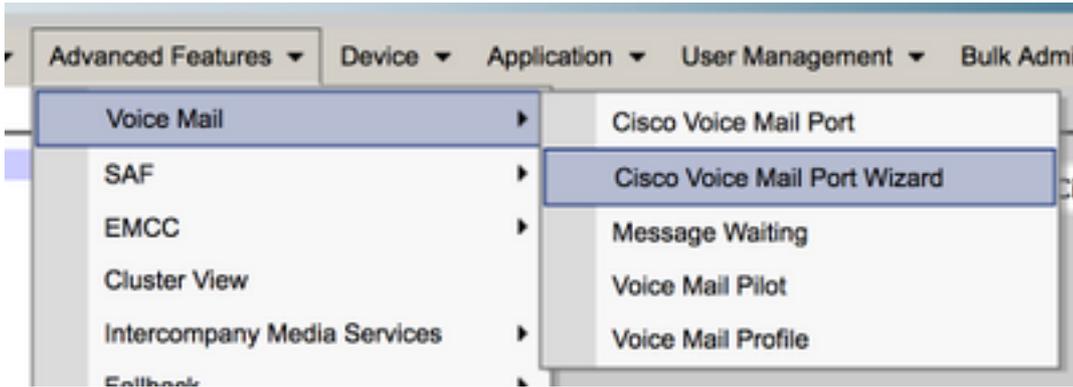
配置

CUCM上的配置

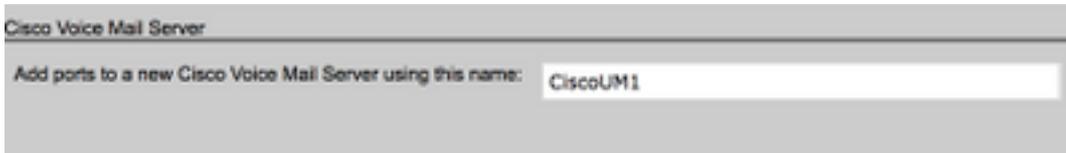
CUCM有一个内置向导，用于为Unity Connection创建端口。要在CUCM上创建端口，请完成以下步骤：

步骤1.在CUCM Administration页面上，导航到**Advanced Features > Voicemail > Cisco Voice Mail**

Port Wizard。

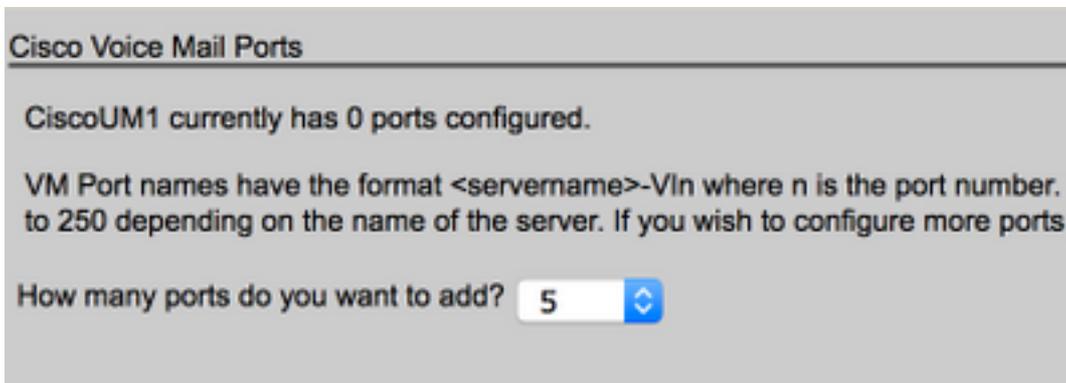


步骤2.选择设备名称。默认为CiscoUM1。



注意：在Unity Connection上使用相同的设备名称。CUCM随端口号附加“—VI”。例如，CiscoUM1-VI1、CiscoUM1-VI2等。在Unity Connection上，将设备名称配置为CiscoUM1-VI。CUC不会将“—VI”附加到设备名称。

步骤3.从下拉菜单中选择端口数。Unity Connection可在一台服务器上处理多达255个端口。



注意：Unity Connection 8.x需要端口许可证。根据Unity Connection许可证中的可用端口选择此处的端口数。

注意：Unity Connection 9.x及更高版本没有端口许可证。最大端口数取决于硬件(物理和虚拟机(VM))配置。请参阅Unity Connection支持的平台列表文档。对于VM，OVA模板编号用户选项确定Unity Connection上的可用端口。根据Unity Connection硬件配置选择此处的端口数。

步骤4.提供设备信息，如说明、设备池、呼叫搜索空间和位置。将“Device Security Profile(设备安全配置文件)”设置为“Non Secure Voice Mail Port (非安全语音邮件端口)”。

Cisco Voice Mail Device Information

Enter the device information for ports A Device Pool selection is required. The Wizard applies these :

Device Information

Description	UnityPorts
Device Pool*	Default
Calling Search Space	< None >
AAR Calling Search Space	< None >
Location*	Hub_None
Device Security Mode*	Non Secure Voice Mail Port
Use Trusted Relay Point*	Default

步骤5.输入第一个端口的目录号。后续端口的端口号递增1。例如，Beginning Directory Number(起始目录号)设置为2001。端口号为2001到2005。分配适当的分区和呼叫搜索空间。

Cisco Voice Mail Directory Numbers

Enter the directory number settings for the new Cisco Voice Mail Server If a Partition is selected, you must select a Partition.

Beginning Directory Number *	2001 (extension number)
Partition	< None >
Calling Search Space	< None >
AAR Group	< None >
Internal Caller ID Display	VoiceMail
Internal Caller ID Display (ASCII format)	VoiceMail
External Number Mask	

 * - indicates required item

步骤6.在下一页选择适当的选项。在本例中，这是新集成，并且线路组不存在。选择是。将目录号码添加到新线路组。

Do you want to add these directory numbers to a Line Group?

For using these ports, you need to add corresponding directory numbers. If you decide to add it later, you can do so by using Line Group configuration.

- Yes. Add directory numbers to a new Line Group.
- Yes. Add directory numbers to an existing Line Group.
- No. I will add them later.

步骤7.提供线路组名称。

Line Group

Enter the Line Group settings for Cisco Voice Mail Server

Line Group Name

步骤8.下一页提供了前面步骤中提供的配置摘要。如果有任何问题，请返回上一页并进行更改。验证后单击“完成”。

Ready to Add Cisco Voice Mail Ports

The information shown below will be applied to the Cisco Voice Mail Ports being created. If the information shown is not correct, click the Back button to edit the information, or Cancel to stop the process.

Cisco Voice Mail Device Information (apply to all ports)

Number of Ports to Add	5 (adding ports)
Cisco Voice Mail Server Name	CiscoUM1
Description	UnityPorts
Device Pool	Default
Calling Search Space	< None >
AAR Calling Search space	< None >
Location	Hub_None
Device Security Mode	Non Secure Voice Mail Port
Use Trusted Relay Point	Default

Directory Number Information

New Directory Numbers	2001 – 2005
Partition	< None >
Calling Search Space	< None >
AAR Group	< None >
Internal Caller ID Display	VoiceMail
Internal Caller ID Display (ASCII format)	VoiceMail
External Number Mask	< None >
Line Group	CiscoUM1-LG

步骤9.端口创建结果显示在下一页。

Cisco Voice Mail Port Wizard Results

- Successfully create device CiscoUM1-VI1
- Successfully create number plan 2001
- Successfully create devicenumplanmap for device/numplan CiscoUM1-VI1/2001
- Successfully create device CiscoUM1-VI2
- Successfully create number plan 2002
- Successfully create devicenumplanmap for device/numplan CiscoUM1-VI2/2002
- Successfully create device CiscoUM1-VI3
- Successfully create number plan 2003
- Successfully create devicenumplanmap for device/numplan CiscoUM1-VI3/2003
- Successfully create device CiscoUM1-VI4
- Successfully create number plan 2004
- Successfully create devicenumplanmap for device/numplan CiscoUM1-VI4/2004
- Successfully create device CiscoUM1-VI5
- Successfully create number plan 2005
- Successfully create devicenumplanmap for device/numplan CiscoUM1-VI5/2005
- Successfully create linegroup CiscoUM1-LG
- Successfully create linegroupnumplanmap for number plan(s) above and (new/existing) linegroup CiscoUM1-LG
- Successfully create linegroupnumplanmap for number plan(s) above and (new/existing) linegroup CiscoUM1-LG
- Successfully create linegroupnumplanmap for number plan(s) above and (new/existing) linegroup CiscoUM1-LG
- Successfully create linegroupnumplanmap for number plan(s) above and (new/existing) linegroup CiscoUM1-LG
- The database has been inserted/updated/deleted successfully

5 new Cisco Voice Mail Ports were added successfully. They are added to Line Group CiscoUM1-LG . To start using the complete the following steps.

- (1) Add this Line Group to a new or existing [Hunt List](#)
- (2) Assign this Hunt List to a [Hunt Pilot](#)

[Return to Cisco Voice Mail Port Wizard start page.](#)

[Go to Cisco Voice Mail Ports page](#)

步骤10.将线路组添加到寻线列表。点击寻线列表选项以创建新的寻线列表或选择现有的寻线列表。将线路组CiscoUM1-LG添加到寻线列表Unity-HL。在寻线列表上，启用图中所示的两个选项。

- Status

Status: Ready

- Hunt List Information

Device is trusted

Name*

Description

Cisco Unified Communications Manager Group*

Enable this Hunt List (change effective on Save; no reset required)

For Voice Mail Usage

步骤11.配置寻线引导号。转到向导并单击寻线引导，或导航至呼叫路由>路由/寻线>寻线引导以创建寻线引导。从下拉列表中选择寻线列表Unity-HL。

Status

 Status: Ready

Pattern Definition

Hunt Pilot*

Route Partition

Description

Numbering Plan

Route Filter

MLPP Precedence*

Hunt List* (Edit)

Call Pickup Group

Alerting Name

ASCII Alerting Name

步骤12.配置语音邮件引导号。VM引导号与寻线引导号相同。导航至**Advanced Features > Voicemail > Voicemail Pilot**,添加新的VM引导号。用户可以拨打VM引导/寻线引导号以访问Unity Connection。

- Voice Mail Pilot Information

Voice Mail Pilot Number

Calling Search Space

Description

Make this the default Voice Mail Pilot for the system

步骤13.配置语音邮件配置文件。VM引导与VM配置文件关联。导航至**Advanced Features > Voicemail > Voicemail Profile**，以添加新的VM配置文件。VM配置文件与用户电话上的线路目录号码(DN)关联。用户可以按电话上的留言按钮以访问Unity Connection。

Voice Mail Profile Information

Voice Mail Profile Name*

Description

Voice Mail Pilot**

Voice Mail Box Mask

Make this the default Voice Mail Profile for the System

步骤14.配置消息等待指示灯(MWI)开和关号码。导航至**Advanced Features > Voicemail > Message Waiting**以创建MWI号码。

Message Waiting Numbers (1 - 2 of 2)		
Find	Message Waiting Numbers	where Directory Num
<input type="checkbox"/>		Directo
<input type="checkbox"/>		2998
<input type="checkbox"/>		2999

Cisco Unity Connection上的配置

要在CUC上创建端口，请完成以下步骤：

步骤1.在CUC Administration页面上，导航到Telephony Integrations > Phone System。单击Add并提供电话系统名称。

步骤2.默认值在Phone System Basics页面上使用。要查看有关电话系统的其他配置的信息，请导航至“帮助”>“此页”。

步骤3. [可选]要将CUCM用户导入CUC，请在电话系统上配置AXL服务器。导航至Edit > Cisco Unified Communications Manager AXL server。

AXL Servers			
<input type="button" value="Delete Selected"/>		<input type="button" value="Add New"/>	
<input type="checkbox"/>	Order	IP Address	Port
<input type="checkbox"/>	0	10.106.98.95	8443
<input type="button" value="Delete Selected"/>		<input type="button" value="Add New"/>	

AXL Server Settings

Username:

Password:

添加CUCM发布服务器和运行AXL服务的订用服务器。使用端口8443/443。用户名是分配了AXL角色的应用用户（在CUCM上）。在本例中，使用CUCM管理员用户。默认情况下，此用户具有所有角色。

步骤4.导航回Phone System Basic页面。在右上角，从相关链接菜单中选择添加端口组。

Search Phone Systems ▶ Phone System Basics (Unity-SCCP)

Related Links

步骤5.创建端口组。为端口组提供显示名称。此处的设备前缀应与CUCM配置步骤3.中提供的语音邮件服务器的名称匹配，后缀为VI。在本示例中，语音邮件服务器名称是CUCM上的CiscoUM1。在CUC上，设备前缀为CiscoUM1-VI。

Port Group

Display Name*

Integration Method

Device Name Prefix*

Reset Status

Message Waiting Indicator Settings

Enable Message Waiting Indicators

MWI On Extension

MWI Off Extension

步骤6.提供MWI开/关号码。CUCM和CUC上的MWI编号匹配。

步骤7.在IPv4地址或主机名字段中提供CUCM发布者的IP地址/主机名，然后单击保存。

MWI On Extension

MWI Off Extension

Primary Server Settings

IPv4 Address or Host Name

IPv6 Address or Host Name

Port

TLS Port

步骤8.在同一页上导航到“编辑”>“服务器”，并在同一群集中添加其他CUCM服务器以进行故障转移。借助订单编号指定首选项。顺序0具有最高优先级，后跟1、2等。端口注册到订单为0的CUCM服务器。如果此服务器不可用，则端口注册到列表中的后续服务器。

<input type="checkbox"/>	Order	IPv4 Address or Host Name	IPv6 Address or Host Name	Port	TLS Port	Server Type
<input type="checkbox"/>	0	10.106.98.95		2000	2443	Cisco Unified Communications Manager

Reconnect to a Higher-order Cisco Unified Communications Manager When Available

TFTP Servers

<input type="checkbox"/>	Order	IPv4 Address or Host Name	IPv6 Address or Host Name
<input type="checkbox"/>	0	10.106.98.95	

选中Reconnect to a Higher-Order Cisco Unified Communications Manager When Available (当端口可用时重新连接到更高订单的Cisco Unified Communications Manager)，以便端口在更高订单的CUCM服务器可用时回退到该服务器。否则，端口将保持注册到较低优先级服务器。

步骤9.从右上角的“相关链接”菜单导航至“添加端口”。

Search Port Groups ▶ Port Group Basics (SCCP-PortGroup)

Related Links

步骤10.配置端口数。这与CUCM上的端口匹配。

New Phone System Port

Enabled

Number of Ports

Phone System

Port Group

Server

步骤11.选择适当的电话系统、端口组和服务。

注意：从Server下拉菜单中，选择Publisher CUC服务器并创建端口。要为用户CUC服务器添加端口，请导航至同一端口组SCCP-PortGroup，然后从右上角的Related Links菜单中选择Add Ports。在New Phone System Port (新建电话系统端口)页面上，从Server (服务器)下拉菜单中选择Subscriber server (订用服务器)。使用此方法，发布方和订用方Unity端口都使用相同的设备名称前缀注册。或者，在同一电话系统中为用户端口创建新的端口组，其设备名称前缀不同。

验证

使用本部分可确认配置能否正常运行。

在CUCM Administration页面上，导航至Advanced feature > Voicemail > Voicemail Ports以确认端口注册。

<input type="checkbox"/>	Device Name ^	Description	Device Pool	Device Security Mode	Calling Search Space	Extension	Partition	Status	IPv4 Address
<input type="checkbox"/>	CiscoUM1-VI1	UnityPorts	Default	Non Secure Voice Mail Port		2001		Registered with 10.106.98.95	10.127.226.5
<input type="checkbox"/>	CiscoUM1-VI2	UnityPorts	Default	Non Secure Voice Mail Port		2002		Registered with 10.106.98.95	10.127.226.5
<input type="checkbox"/>	CiscoUM1-VI3	UnityPorts	Default	Non Secure Voice Mail Port		2003		Registered with 10.106.98.95	10.127.226.5
<input type="checkbox"/>	CiscoUM1-VI4	UnityPorts	Default	Non Secure Voice Mail Port		2004		Registered with 10.106.98.95	10.127.226.5
<input type="checkbox"/>	CiscoUM1-VI5	UnityPorts	Default	Non Secure Voice Mail Port		2005		Registered with 10.106.98.95	10.127.226.5

故障排除

目前没有针对此配置的故障排除信息。