

CUCM非安全SCCP與CUC整合的配置示例

目錄

[簡介](#)

[必要條件](#)

[需求](#)

[採用元件](#)

[設定](#)

[CUCM上的配置](#)

[Cisco Unity Connection上的配置](#)

[驗證](#)

[疑難排解](#)

簡介

本文檔介紹將Cisco Unified Communication Manager(CUCM)與Cisco Unity Connection(CUC)整合到使用精簡呼叫控制協定(SCCP)的過程。在此示例中，SCCP整合是不安全的。

必要條件

需求

思科建議您瞭解以下主題：

- CUCM
- CUC

採用元件

本文中的資訊係根據以下軟體和硬體版本：

- CUCM 8.x及更高版本
- CUC 8.x及更高版本

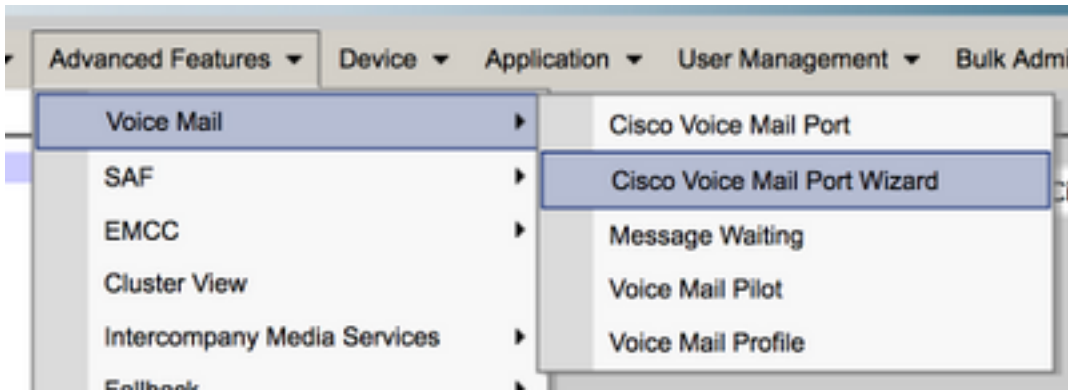
本文中的資訊是根據特定實驗室環境內的裝置所建立。文中使用到的所有裝置皆從已清除（預設）的組態來啟動。如果您的網路運作中，請確保您瞭解任何指令可能造成的影響。

設定

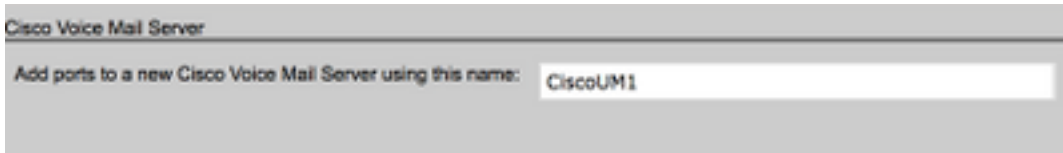
CUCM上的配置

CUCM具有內建嚮導，用於為Unity Connection建立埠。完成以下步驟，以便在CUCM上建立埠：

步驟1.在CUCM管理頁面上，導航至Advanced Features > Voicemail > Cisco Voice Mail Port Wizard。

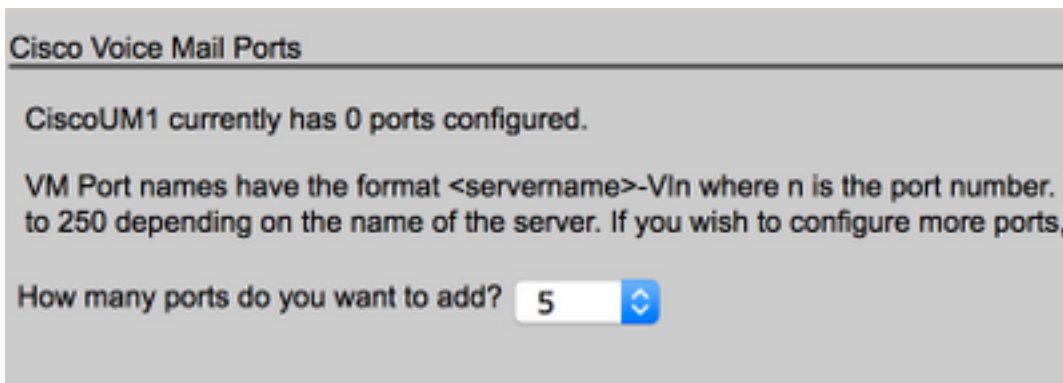


步驟2.選擇裝置名稱。預設值為CiscoUM1。



附註：在Unity Connection上使用相同的裝置名稱。CUCM附加「—VI」和埠號。例如 CiscoUM1-VI1、CiscoUM1-VI2等。在Unity Connection上，將裝置名稱配置為CiscoUM1-VI。CUC不向裝置名稱附加「—VI」。

步驟3.從下拉選單中選擇埠數。Unity Connection可以在一台伺服器上處理多達255個埠。



附註：Unity Connection 8.x需要埠許可證。根據Unity Connection許可證中的可用埠數，在此處選擇埠數。

附註：Unity Connection 9.x及更高版本沒有埠許可證。最大埠數取決於硬體(物理和虛擬機器(VM))配置。請參閱Unity Connection支援的平台清單文檔。對於VM，OVA template number of Users選項確定Unity Connection上的可用埠。根據Unity Connection硬體配置在此處選擇埠數。

步驟4.提供裝置資訊，如說明、裝置池、呼叫搜尋空間和位置。將Device Security Profile設定為Non-Secure Voice Mail Port。

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

步驟5.輸入第一個埠的目錄號。後續埠的埠號遞增1。例如，Beginning Directory Number設定為2001。埠號為2001到2005。分配適當的分割槽和呼叫搜尋空間。

Cisco Voice Mail Directory Numbers

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

步驟6.在下一頁上選擇適當的選項。在示例中，這是一個新的整合，並且不存線上路組。選擇Yes。將目錄號碼新增到新的線路組。

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.

步驟7.提供線路組名稱。

Line Group

Enter the Line Group settings for Cisco Voice Mail Server

Line Group Name

步驟8.下一頁提供前面步驟中提供的配置的摘要。如果有問題，請返回上一頁並進行更改。驗證後按一下Finish。

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 abort.

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

步驟9.埠建立結果顯示在下一頁上。

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
- 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](#)

步驟10.將線路組新增到尋線清單。按一下Hunt List (尋線清單) 選項建立新的尋線清單或選擇一個現有尋線清單。將線路組CiscoUM1-LG新增到尋線列表Unity-HL。在Hunt List上啟用這兩個選項，如下圖所示。

- Status

i 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

步驟11.配置尋線引導號。轉至嚮導並按一下尋線引導，或導航至呼叫路由>路由/尋線>尋線引導以建立尋線引導。從下拉選單中選擇Hunt List 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

步驟12.配置語音郵件引導號。VM引導號與尋線引導號相同。導航到**Advanced Features > Voicemail > Voicemail Pilot**，新增新的VM引導號。使用者可以撥打虛擬機器引導/尋線引導號來連線Unity Connection。

- Voice Mail Pilot Information

Voice Mail Pilot Number

Calling Search Space

Description

Make this the default Voice Mail Pilot for the system

步驟13.配置語音郵件配置檔案。VM引導與VM配置檔案相關聯。導航到**Advanced Features > Voicemail > Voicemail Profile**以新增新的VM配置檔案。VM配置檔案與使用者電話上的線路目錄號碼(DN)相關聯。使用者可以按電話上的留言按鈕來訪問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

步驟14.設定訊息等待指示器(MWI)的開啟和關閉編號。導航到**Advanced Features > Voicemail > Message Waiting**以建立MWI號碼。

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

完成以下步驟，以便在CUC上建立連線埠：

步驟1.在CUC管理頁面上，導航至**電話整合>電話系統**。按一下**Add**並提供電話系統名稱。

Phone System

Phone System Name*

步驟2.預設設定用於Phone System Basics頁面。要檢視有關電話系統的其他配置的資訊，請導航到**幫助>此頁**。

Phone System Basics (Unity-SCCP)

Phone System Edit Refresh Help

Phone System

Phone System Name*

步驟3. [可選]若要將CUCM使用者匯入CUC，請在電話系統上配置AXL伺服器。導航到**編輯> Cisco Unified Communications Manager AXL伺服器**。

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:

新增CUCM發佈伺服器 and 運行AXL服務的訂閱伺服器。使用埠8443/443。使用者名稱是分配了AXL角色的應用程式使用者 (在CUCM上)。在本示例中，使用CUCM Admin使用者。預設情況下，此使用者具有所有角色。

步驟4.導覽回至Phone System基本頁面。在右上角，從相關連結選單中選擇Add a Port Group。

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

Related Links

步驟5.建立埠組。提供埠組的顯示名稱。此處的「Device Prefix (裝置字首)」應與CUCM配置的步驟3中提供的語音郵件伺服器的名稱匹配，字尾為VI。在本示例中，語音郵件伺服器名稱為CUCM上的CiscoUM1。在CUC上，裝置字首為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

步驟6.提供MWI的開啟和關閉號碼。CUCM和CUC上的MWI號碼匹配。

步驟7.在IPv4地址或Host Name欄位中提供CUCM發佈伺服器的IP地址/主機名，然後點選Save。

MWI On Extension

MWI Off Extension

Primary Server Settings

IPv4 Address or Host Name

IPv6 Address or Host Name

Port

TLS Port

步驟8.在同一頁上導航到**Edit > Server**，並在同一群集中新增其他CUCM伺服器以進行故障轉移。藉助訂單編號分配首選項。訂單0具有最高的優先順序，後跟1、2等。埠註冊到訂單0的CUCM伺服器。如果此伺服器不可用，則埠註冊到清單中的後續伺服器。

<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	

選中Reconnect to a Higher-Order Cisco Unified Communications Manager When Available，以便埠在變得可用後回退到更高階CUCM伺服器。否則，這些連線埠仍會向優先順序較低的伺服器註冊。

步驟9.從右上角的Related Links功能表導覽至Add Ports。

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

Related Links

步驟10.配置埠數。匹配CUCM上的埠。

New Phone System Port

Enabled

Number of Ports

Phone System

Port Group

Server

步驟11.選擇適當的電話系統、埠組和伺服器。

附註：從Server下拉選單中，選擇Publisher CUC伺服器並建立埠。要為訂戶CUC伺服器新增埠，請導航到相同的埠組SCCP-PortGroup，然後從右上角的相關連結選單中選擇新增埠。在New Phone System Port頁面上，從Server下拉選單中選擇Subscriber server。使用此方法，發佈者和訂閱者Unity埠都使用相同的裝置名稱字首進行註冊。或者，在同一電話系統中為訂戶埠建立一個具有不同裝置名稱字首的新埠組。

驗證

使用本節內容，確認您的組態是否正常運作。

在CUCM Administration頁面上，導航到Advanced feature > Voicemail > Voicemail Ports以確認埠註冊。

<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

疑難排解

目前尚無適用於此組態的具體疑難排解資訊。