

在Cisco IP電話7800系列或8800系列多平台電話上配置TR-069

目標

TR-069定義了客戶端裝置廣域網管理協定(CWMP)。它描述自動配置伺服器(ACS)與支援CWMP的一個或多個端點之間的互動。TR-069使「非接觸」安裝、新服務部署、韌體維護和故障排除成為可能。在Cisco IP電話7800或8800系列多平台電話上配置TR-069使裝置能夠與ACS通訊並能夠請求更新。它還可以使ACS立即接通電話，以防部署新服務。

本文旨在展示如何在Cisco IP電話7800系列或8800系列多平台電話上配置TR-069。假設ACS上的TR-069設定已配置。要完成配置，需要以下詳細資訊：

- ACS使用者名稱
- ACS密碼
- ACS URL
- 連線請求使用者名稱
- 連線請求密碼
- (可選) 備份ACS URL
- (可選) 備份ACS使用者名稱
- (可選) 備份ACS密碼

適用裝置

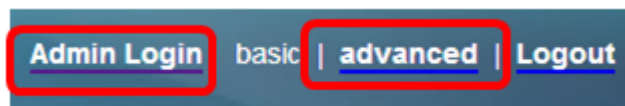
- 7800系列
- 8800系列

軟體版本

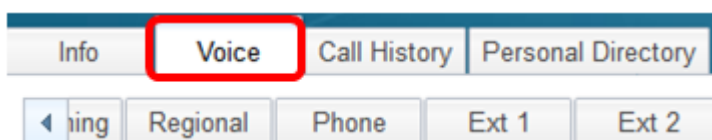
- 11.0.1

配置TR-069

步驟1. 登入到電話的基於Web的實用程式，然後按一下Admin Login > advanced。



步驟2. 按一下Voice 索引標籤。



步驟3. 按一下TR-069子頁籤。

User	Att Console	TR-069	▶	▼
------	-------------	--------	---	---

步驟4.在TR-069下，從Enable TR-069下拉選單中選擇**Yes**。

Enable TR-069:	Yes ▼
ACS Username:	Yes
ACS URL In Use:	No

附註：預設值為「否」。在此示例中，選擇了「是」。

步驟5.在ACS URL欄位中輸入ACS URL。ACS URL由網際網路服務提供商(ISP)提供。

TR-069			
Enable TR-069:	Yes ▼	ACS URL:	www.cpeacs.com
ACS Username:	CPE1	ACS Password:	●●●●●●●●
ACS URL In Use:			
Connection Request Username:	CPEUser	Connection Request Password:	●●●●●●●●
Connection Request URL:			
Periodic Inform Interval:	20	Periodic Inform Enable:	Yes ▼
TR-069 Traceability:	No ▼	CWMP V1.2 Support:	Yes ▼
TR-069 VoiceObject Init:	Yes ▼	TR-069 DHCP Option Init:	Yes ▼
TR-069 Fallback Support:	No ▼	BACKUP ACS URL:	
BACKUP ACS User:		BACKUP ACS Password:	

附註：在此範例中，輸入www.cpeacs.com。

步驟6.在ACS使用者名稱欄位中輸入使用者名稱。這是允許電話連線到ACS的使用者名稱。

TR-069			
Enable TR-069:	Yes ▼	ACS URL:	www.cpeacs.com
ACS Username:	CPE1	ACS Password:	●●●●●●●●
ACS URL In Use:			
Connection Request Username:	CPEUser	Connection Request Password:	●●●●●●●●
Connection Request URL:			
Periodic Inform Interval:	20	Periodic Inform Enable:	Yes ▼
TR-069 Traceability:	No ▼	CWMP V1.2 Support:	Yes ▼
TR-069 VoiceObject Init:	Yes ▼	TR-069 DHCP Option Init:	Yes ▼
TR-069 Fallback Support:	No ▼	BACKUP ACS URL:	
BACKUP ACS User:		BACKUP ACS Password:	

附註：在此示例中，輸入了CPE1。

步驟7.在ACS Password欄位中輸入密碼。這是允許電話連線到ACS的密碼。

TR-069			
Enable TR-069:	Yes ▾	ACS URL:	www.cpeacs.com
ACS Username:	CPE1	ACS Password:	●●●●●●●●
ACS URL In Use:			
Connection Request Username:	CPEUser	Connection Request Password:	●●●●●●●●
Connection Request URL:			
Periodic Inform Interval:	20	Periodic Inform Enable:	Yes ▾
TR-069 Traceability:	No ▾	CWMP V1.2 Support:	Yes ▾
TR-069 VoiceObject Init:	Yes ▾	TR-069 DHCP Option Init:	Yes ▾
TR-069 Fallback Support:	No ▾	BACKUP ACS URL:	
BACKUP ACS User:		BACKUP ACS Password:	

步驟8. 在 *Connection Request Username* 欄位中輸入請求使用者名稱。ACS 將使用此命令對 CPE 進行身份驗證。

TR-069			
Enable TR-069:	Yes ▾	ACS URL:	www.cpeacs.com
ACS Username:	CPE1	ACS Password:	●●●●●●●●
ACS URL In Use:			
Connection Request Username:	CPEUser	Connection Request Password:	●●●●●●●●
Connection Request URL:			
Periodic Inform Interval:	20	Periodic Inform Enable:	Yes ▾
TR-069 Traceability:	No ▾	CWMP V1.2 Support:	Yes ▾
TR-069 VoiceObject Init:	Yes ▾	TR-069 DHCP Option Init:	Yes ▾
TR-069 Fallback Support:	No ▾	BACKUP ACS URL:	
BACKUP ACS User:		BACKUP ACS Password:	

附註：在此示例中，輸入了 CPEUser。

步驟9. 在 *Connection Request Password* 欄位中輸入請求密碼。ACS 將使用此命令完成 CPE 的身份驗證過程。

TR-069			
Enable TR-069:	Yes ▾	ACS URL:	www.cpeacs.com
ACS Username:	CPE1	ACS Password:	●●●●●●●●
ACS URL In Use:			
Connection Request Username:	CPEUser	Connection Request Password:	●●●●●●●●
Connection Request URL:			
Periodic Inform Interval:	20	Periodic Inform Enable:	Yes ▾
TR-069 Traceability:	No ▾	CWMP V1.2 Support:	Yes ▾
TR-069 VoiceObject Init:	Yes ▾	TR-069 DHCP Option Init:	Yes ▾
TR-069 Fallback Support:	No ▾	BACKUP ACS URL:	
BACKUP ACS User:		BACKUP ACS Password:	

步驟10. (可選) 在 *Periodic Inform Interval* 欄位中輸入通知間隔值。間隔值是以秒為單位的。它確定電話與 ACS 聯絡的時間間隔。

TR-069	
Enable TR-069:	Yes ▾ ACS URL: www.cpeacs.com
ACS Username:	CPE1 ACS Password: ●●●●●●●●
ACS URL In Use:	
Connection Request Username:	CPEUser Connection Request Password: ●●●●●●●●
Connection Request URL:	
Periodic Inform Interval:	20 Periodic Inform Enable: Yes ▾
TR-069 Traceability:	No ▾ CWMP V1.2 Support: Yes ▾
TR-069 VoiceObject Init:	Yes ▾ TR-069 DHCP Option Init: Yes ▾
TR-069 Fallback Support:	No ▾ BACKUP ACS URL:
BACKUP ACS User:	BACKUP ACS Password:

附註：預設值為20。在此示例中，使用20。

步驟11. (可選) 驗證Periodic Inform Enable是否設定為Yes。這允許電話定期與ACS通訊。可以通過從Periodic Inform Enable下拉選單中選擇一個選項來更改此設定。

TR-069	
Enable TR-069:	Yes ▾ ACS URL: www.cpeacs.com
ACS Username:	CPE1 ACS Password: ●●●●●●●●
ACS URL In Use:	
Connection Request Username:	CPEUser Connection Request Password: ●●●●●●●●
Connection Request URL:	
Periodic Inform Interval:	20 Periodic Inform Enable: Yes ▾
TR-069 Traceability:	No ▾ CWMP V1.2 Support: Yes ▾
TR-069 VoiceObject Init:	Yes ▾ TR-069 DHCP Option Init: Yes ▾
TR-069 Fallback Support:	No ▾ BACKUP ACS URL:
BACKUP ACS User:	BACKUP ACS Password:

附註：預設值為Yes。

步驟12. (可選) 從TR-069 Traceability下拉選單中，選擇Yes以啟用TR-069交易可跟蹤性。選擇No以停用該功能。

TR-069	
Enable TR-069:	Yes ▾ ACS URL: www.cpeacs.com
ACS Username:	CPE1 ACS Password: ●●●●●●●●
ACS URL In Use:	
Connection Request Username:	CPEUser Connection Request Password: ●●●●●●●●
Connection Request URL:	
Periodic Inform Interval:	20 Periodic Inform Enable: Yes ▾
TR-069 Traceability:	No ▾ CWMP V1.2 Support: Yes ▾
TR-069 VoiceObject Init:	Yes ▾ TR-069 DHCP Option Init: Yes ▾
TR-069 Fallback Support:	No ▾ BACKUP ACS URL:
BACKUP ACS User:	BACKUP ACS Password:

附註：預設值為No。

步驟13. (可選) 從CWMP V1.2支援下拉選單中，選擇Yes啟用此功能。選擇否以停用。

TR-069	
Enable TR-069:	Yes ▾ ACS URL: www.cpeacs.com
ACS Username:	CPE1 ACS Password: ●●●●●●●●
ACS URL In Use:	
Connection Request Username:	CPEUser Connection Request Password: ●●●●●●●●
Connection Request URL:	
Periodic Inform Interval:	20 Periodic Inform Enable: Yes ▾
TR-069 Traceability:	No ▾ CWMP V1.2 Support: Yes ▾
TR-069 VoiceObject Init:	Yes ▾ TR-069 DHCPOption Init: Yes ▾
TR-069 Fallback Support:	No ▾ BACKUP ACS URL:
BACKUP ACS User:	BACKUP ACS Password:

附註：預設值為Yes。

步驟14。（可選）從TR-069 VoiceObject Init下拉選單中，選擇Yes啟用該功能。選擇否以停用。

TR-069	
Enable TR-069:	Yes ▾ ACS URL: www.cpeacs.com
ACS Username:	CPE1 ACS Password: ●●●●●●●●
ACS URL In Use:	
Connection Request Username:	CPEUser Connection Request Password: ●●●●●●●●
Connection Request URL:	
Periodic Inform Interval:	20 Periodic Inform Enable: Yes ▾
TR-069 Traceability:	No ▾ CWMP V1.2 Support: Yes ▾
TR-069 VoiceObject Init:	Yes ▾ TR-069 DHCPOption Init: Yes ▾
TR-069 Fallback Support:	No ▾ BACKUP ACS URL:
BACKUP ACS User:	BACKUP ACS Password:

附註：預設值為Yes。

步驟15。（可選）從TR-069 DHCPOption Init下拉選單中，選擇Yes啟用該功能。選擇否以停用。

TR-069	
Enable TR-069:	Yes ▾ ACS URL: www.cpeacs.com
ACS Username:	CPE1 ACS Password: ●●●●●●●●
ACS URL In Use:	
Connection Request Username:	CPEUser Connection Request Password: ●●●●●●●●
Connection Request URL:	
Periodic Inform Interval:	20 Periodic Inform Enable: Yes ▾
TR-069 Traceability:	No ▾ CWMP V1.2 Support: Yes ▾
TR-069 VoiceObject Init:	Yes ▾ TR-069 DHCPOption Init: Yes ▾
TR-069 Fallback Support:	No ▾ BACKUP ACS URL:
BACKUP ACS User:	BACKUP ACS Password:

附註：預設值為Yes。

步驟16。(可選)從TR-069 Fallback Support下拉選單中，選擇Yes啟用該功能。選擇否以停用。

TR-069			
Enable TR-069:	Yes ▾	ACS URL:	www.cpeacs.com
ACS Username:	CPE1	ACS Password:
ACS URL In Use:			
Connection Request Username:	CPEUser	Connection Request Password:
Connection Request URL:			
Periodic Inform Interval:	20	Periodic Inform Enable:	Yes ▾
TR-069 Traceability:	No ▾	CWMP V1.2 Support:	Yes ▾
TR-069 VoiceObject Init:	Yes ▾	TR-069 DHCP Option Init:	Yes ▾
TR-069 Fallback Support:	No ▾	BACKUP ACS URL:	
BACKUP ACS User:		BACKUP ACS Password:	

附註：預設值為No。

步驟17。(可選)在BACKUP ACS URL欄位中輸入備份ACS URL。

TR-069			
Enable TR-069:	Yes ▾	ACS URL:	www.cpeacs.com
ACS Username:	CPE1	ACS Password:
ACS URL In Use:			
Connection Request Username:	CPEUser	Connection Request Password:
Connection Request URL:			
Periodic Inform Interval:	20	Periodic Inform Enable:	Yes ▾
TR-069 Traceability:	No ▾	CWMP V1.2 Support:	Yes ▾
TR-069 VoiceObject Init:	Yes ▾	TR-069 DHCP Option Init:	Yes ▾
TR-069 Fallback Support:	No ▾	BACKUP ACS URL:	
BACKUP ACS User:		BACKUP ACS Password:	

附註：預設情況下，此欄位留空。

步驟18。(可選)在BACKUP ACS User欄位中輸入備份ACS使用者名稱。

TR-069			
Enable TR-069:	Yes ▾	ACS URL:	www.cpeacs.com
ACS Username:	CPE1	ACS Password:
ACS URL In Use:			
Connection Request Username:	CPEUser	Connection Request Password:
Connection Request URL:			
Periodic Inform Interval:	20	Periodic Inform Enable:	Yes ▾
TR-069 Traceability:	No ▾	CWMP V1.2 Support:	Yes ▾
TR-069 VoiceObject Init:	Yes ▾	TR-069 DHCP Option Init:	Yes ▾
TR-069 Fallback Support:	No ▾	BACKUP ACS URL:	
BACKUP ACS User:		BACKUP ACS Password:	

附註：預設情況下，此欄位留空。

步驟19。(可選)在BACKUP ACS Password欄位中輸入備份ACS密碼。

TR-069			
Enable TR-069:	Yes	ACS URL:	www.cpeacs.com
ACS Username:	CPE1	ACS Password:
ACS URL In Use:			
Connection Request Username:	CPEUser	Connection Request Password:
Connection Request URL:			
Periodic Inform Interval:	20	Periodic Inform Enable:	Yes
TR-069 Traceability:	No	CWMP V1.2 Support:	Yes
TR-069 VoiceObject Init:	Yes	TR-069 DHCP Option Init:	Yes
TR-069 Fallback Support:	No	BACKUP ACS URL:	
BACKUP ACS User:		BACKUP ACS Password:	

附註：預設情況下，此欄位留空。

步驟20.按一下「Submit All Changes」。



您現在應該已經在IP電話上配置了TR-069。

驗證TR-069是否正常工作

步驟1.使用Wireshark在電話上執行資料包捕獲。

附註：在本示例中，電話正在傳送封裝在簡單對象訪問協定(SOAP)中的XML檔案。

```

12 05:39:29.408397000 10.74.51.109 10.74.51.77 HTTP/XML 228 POST / HTTP/1.1
13 05:39:29.931238000 10.74.51.77 10.74.51.109 HTTP/XML 826 HTTP/1.1 200 OK
14 05:39:29.933702000 10.74.51.109 10.74.51.77 HTTP 451 POST / HTTP/1.1
15 05:39:29.983593000 10.74.51.77 10.74.51.109 HTTP/XML 691 HTTP/1.1 200 OK
16 05:39:29.984775000 10.74.51.109 10.74.51.77 HTTP/XML 1322 POST / HTTP/1.1
17 05:39:30.078626000 10.74.51.77 10.74.51.109 HTTP 102 HTTP/1.1 204 OK
.....
* Frame 15: 691 bytes on wire (5528 bits), 691 bytes captured (5528 bits) on interface 0
* Ethernet II, Src: CadmusCo_df:57:ed (08:00:27:df:57:ed), Dst: 00:56:2b:04:36:8a (00:56:2b:04:36:8a)
* Internet Protocol Version 4, Src: 10.74.51.77 (10.74.51.77), Dst: 10.74.51.109 (10.74.51.109)
* Transmission Control Protocol, Src Port: cwmp (7547), Dst Port: 50508 (50508), Seq: 1129, Ack: 6265, Len: 625
* Hypertext Transfer Protocol
* eXtensible Markup Language
  <SOAP-ENV:Envelope
    xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
    xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
    xmlns:cwmp="urn:dslforum-org:cwmp-1-0"
    xmlns:xsd="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
    <SOAP-ENV:Body>
      <cwmp:GetRPCMethods/>
    </SOAP-ENV:Body>
  </SOAP-ENV:Envelope>

```

您剛剛確認了TR-069配置工作正常。