

# 配置Jabber擴展、連線並修改主叫方顯示

## 目錄

[簡介](#)

[必要條件](#)

[需求](#)

[採用元件](#)

[設定](#)

[網路圖表](#)

[疑難排解範例](#)

## 簡介

本文檔介紹如何在Jabber中配置擴展和連線功能，以及如何修改遠端目標上顯示的主叫方。

## 必要條件

Cisco Unified Communications Manager(CUCM)9.1或更高版本。

Jabber 9.1或更高版本。

## 需求

需要有關使用Cisco Unified Communications Manager和IM and Presence Server配置Jabber的先前經驗和知識。

## 採用元件

本檔案中的資訊是根據以下軟體版本：

- Jabber 11.8.2
- 思科整合通訊管理員11.0.1.10000-10
- 即時消息和狀態伺服器(IMP)11.0.1.10000-6

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。如果您的網路正在作用，請確保您已瞭解任何組態可能造成的影響。

## 設定

步驟1.為已配置Jabber的同一使用者配置CTI遠端裝置(CTI RD)電話配置檔案。

**Phone Configuration**

Save Delete Copy Reset Apply Config Add New

**Status**  
 Status: Ready

**Association**

1	Line [1] - 1001 in Phones
2	Line [2] - Add a new DN

**Phone Type**  
 Product Type: CTI Remote Device

**Real-time Device Status**  
 Registration: Registered with Cisco Unified Communications Manager  
 IPv4 Address:

**Device Information**

- Device is Active
- Device is not trusted
- Active Remote Destination: 3001
- Owner User ID\*: testuser1
- Device Name\*: CTIRDtestuser1
- Description:

- 配置CTI RD時，請關聯到同一Jabber使用者。線路配置將與Jabber客戶端服務框架(CSF)裝置線路相同
  - 需要正確配置重新路由呼叫搜尋空間，遠端目標呼叫才能正常工作
- 步驟2. 配置遠端目標。

**Remote Destination Configuration**

Save Delete Copy Add New

**Status**  
 Status: Ready

**CTI Remote Device**

Line	Line Association
Line [1] - 1001 in Phones	<input checked="" type="checkbox"/>

**Remote Destination Information**

Name: JabberRD  
 Destination Number\*: 3001  
 Owner User ID\*: testuser1

Enable Unified Mobility features  
 Remote Destination Profile\*: -- Not Selected --  
 Single Number Reach Voicemail Policy\*: Use System Default

Enable Single Number Reach  
 Ring this phone and my business phone at the same time when my business line(s) is dialed.

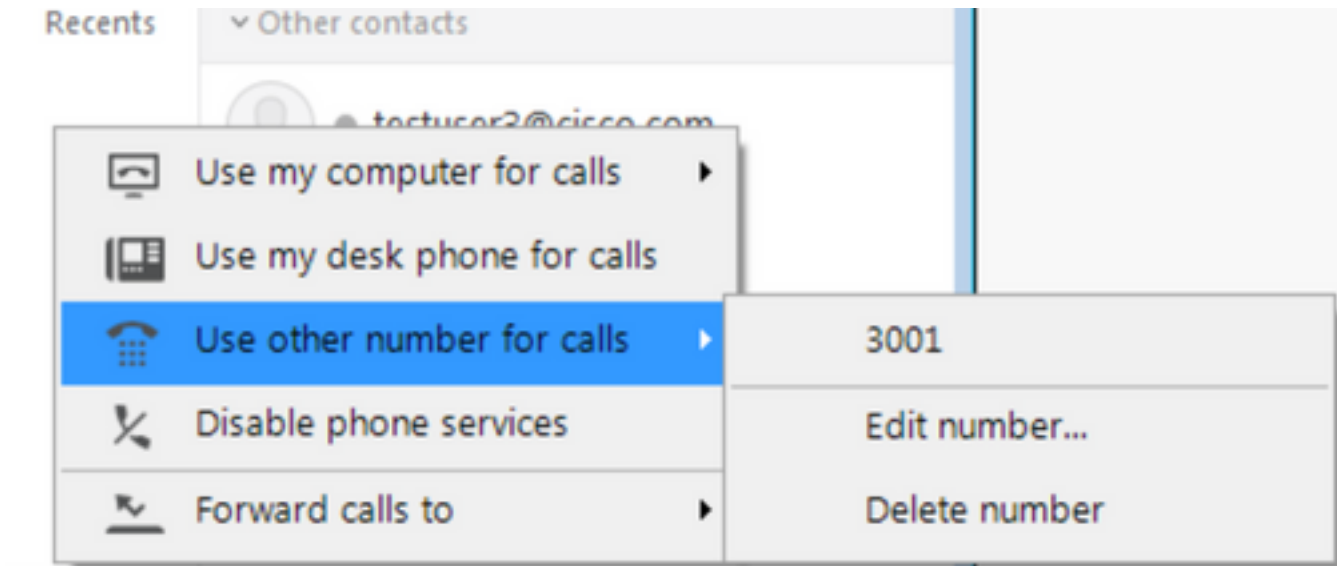
Enable Move to Mobile  
 If this is a mobile phone, transfer active calls to this phone when the mobility button on your Cisco IP Phone is pr

Enable Extend and Connect  
 Allow this phone to be controlled by CTI applications (e.g. Jabber)  
 CTI Remote Device\*: CTIRDtestuser1

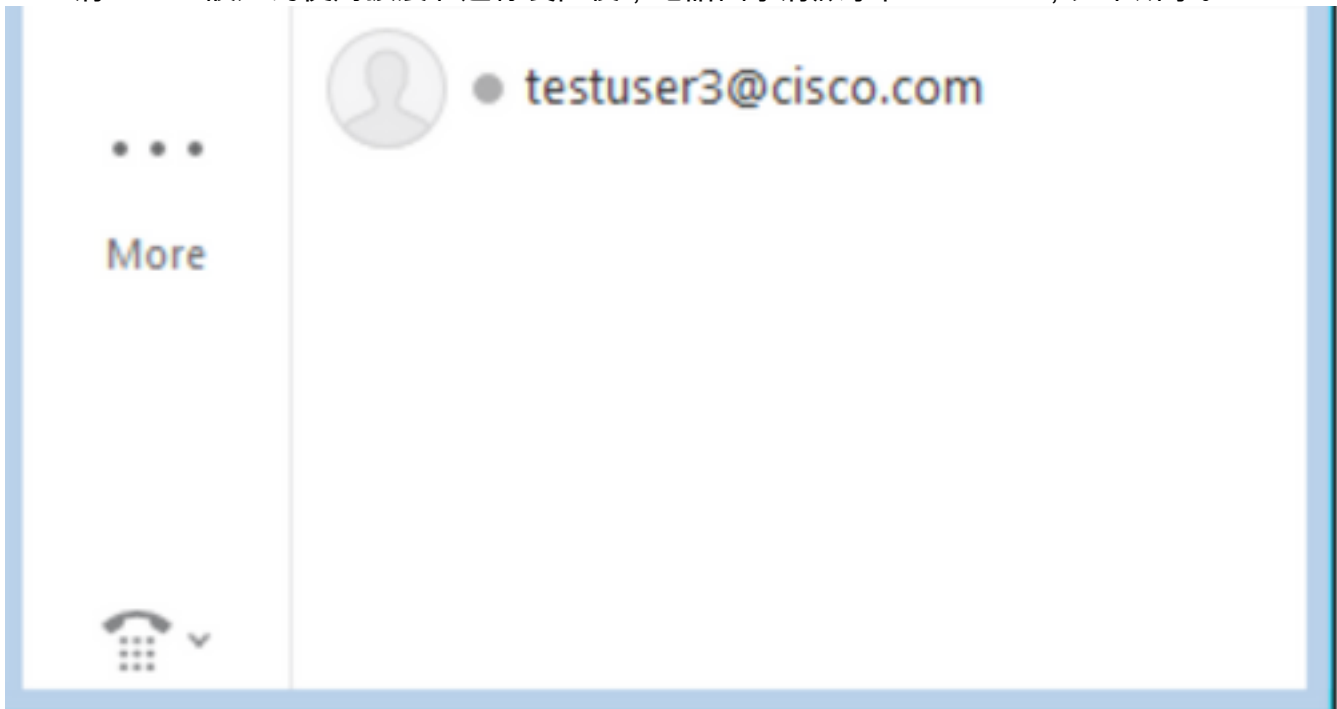
- 在本例中，我使用3001作為遠端目的地號碼。此遠端目標號碼應為外部號碼（註冊了Jabber的CUCM群集外部的號碼，例如另一個電話系統）
- 步驟3. 將CTI RD配置檔案關聯到終端使用者。

Device Information	
Controlled Devices	BOTTEST1 CIPCTEST1 CSFTEST1 CTIRDtestuser1

步驟4.登入到Jabber後，您將看到一個選項，用於將Jabber電話服務設定為使用Extend and Connect裝置（使用其他號碼進行呼叫）。使用「編輯號碼」選項時，應該為新號碼設定匹配的路由模式。

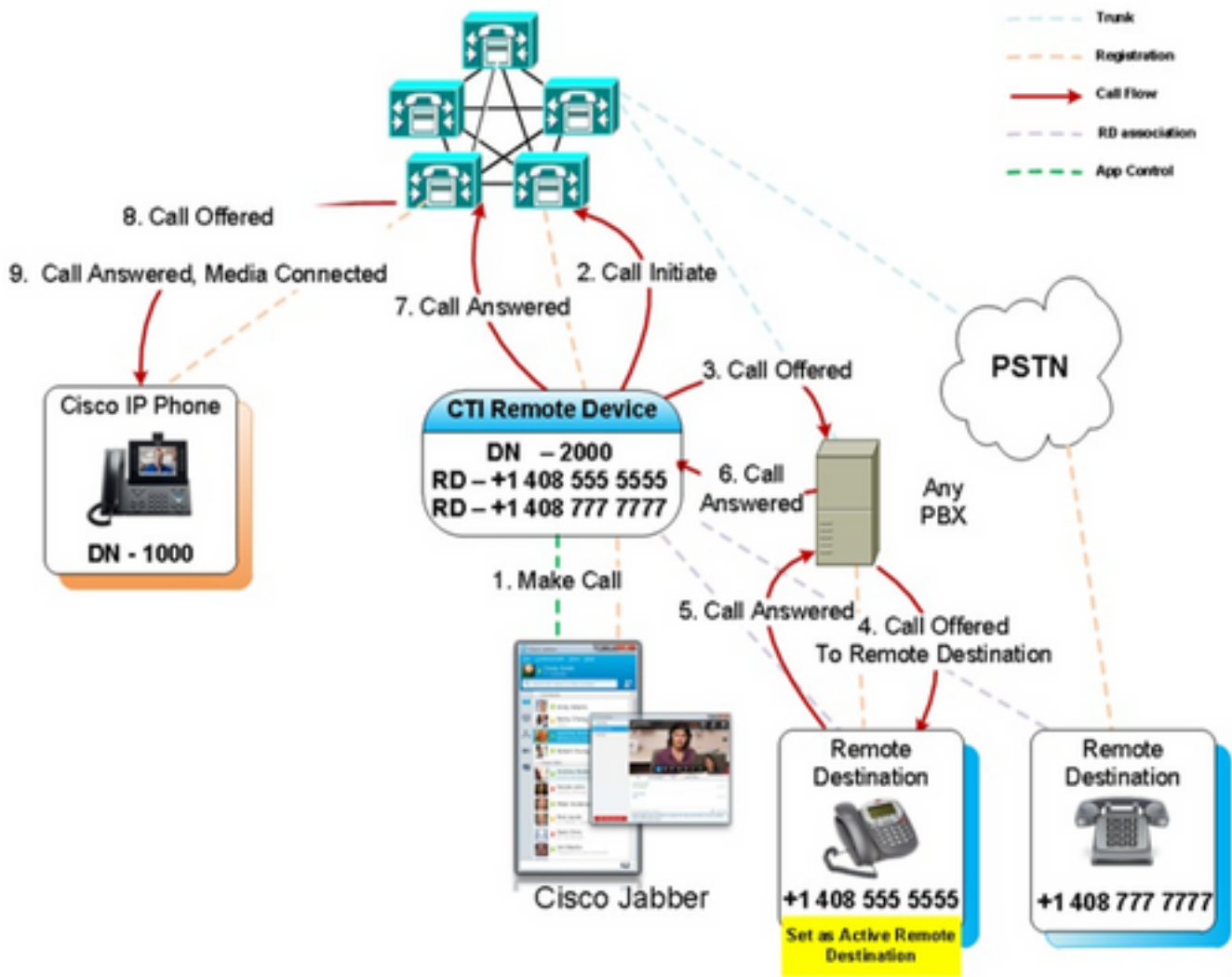


- 將Jabber設定為使用擴展和連線裝置後，電話圖示將顯示在Jabber上，如下所示。



## 網路圖表

- 出站Jabber擴展和連線呼叫的呼叫流程如下圖所示



## 疑難排解範例

在此示例中，當遠端目標（「其他號碼」）振鈴時，它不會顯示主叫方號碼。因此，他們無法使用 Extend and Connect 區分來自外部方還是來自 Jabber。使用 Extend and Connect 時，CUCM 會向遠端裝置發起呼叫，預設情況下不會傳送呼叫方資訊。

在下面的 Extend and Connect 呼叫的數字分析摘錄中可以看到，**CallingPartyNumber** 欄位為空。

```

16766318.007 |19:17:23.127 |AppInfo |Digit analysis: patternUsage=5
16766318.008 |19:17:23.127 |AppInfo |Digit analysis: match(pi="1", fqcn="", cn="", plv="5",
pss="test:Phones", TodFilteredPss="test:Phones", dd="3001", dac="0")
16766318.009 |19:17:23.127 |AppInfo |Digit analysis: analysis results
16766318.010 |19:17:23.127 |AppInfo ||PretransformCallingPartyNumber=
|CallingPartyNumber=
|DialingPartition=Phones
|DialingPattern=3001
|FullyQualifiedCalledPartyNumber=3001
|DialingPatternRegularExpression=(3001)
|DialingWhere=
|PatternType=Enterprise
|PotentialMatches=NoPotentialMatchesExist
|DialingSdlProcessId=(0,0,0)
|PretransformDigitString=3001

```

```
|PretransformTagsList=SUBSCRIBER
|PretransformPositionalMatchList=3001
|CollectedDigits=3001
|UnconsumedDigits=
|TagsList=SUBSCRIBER
|PositionalMatchList=3001
|VoiceMailbox=
|VoiceMailCallingSearchSpace=Global Learned E164 Numbers:Directory URI:Phones
|VoiceMailPilotNumber=88800
|RouteBlockFlag=RouteThisPattern
|RouteBlockCause=0
|AlertingName=
|UnicodeDisplayName=
|DisplayNameLocale=1
|OverlapSendingFlagEnabled=0
|WithTags=
```

在SIP INVITE中，可以看到sip後面的主叫方編號：From標頭中的標籤。

在下面的摘錄中，可以看到INVITE(sip:10.66.87.195)中未包含主叫方號碼，並且正在傳送的主叫方名稱顯示為VoiceConnect。

```
16766935.001 |19:17:25.831 |AppInfo |SIPtcp - wait_SdlSPISignal: Outgoing SIP TCP message to
10.66.87.204 on port 5060 index 1146
[1276581,NET]
INVITE sip:3001@10.66.87.204:5060;transport=tcp SIP/2.0
Via: SIP/2.0/TCP 10.66.87.195:5060;branch=z9hG4bK6dae5b551945
From: "VoiceConnect"
```

```
        ;tag=634549~59c9c4bc-724d-e1f0-017a-a8992d4fc521-19395629
To: <sip:3001@10.66.87.204>;tag=325889~2a8670d1-cf49-4a53-ae8f-36c41a8e75cf-23913736
Date: Thu, 18 May 2017 09:17:25 GMT
Call-ID: cbe81900-91d166a3-6d704-c357420a@10.66.87.195
Supported: timer,resource-priority,replaces
User-Agent: Cisco-CUCM10.5
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
CSeq: 105 INVITE
Max-Forwards: 70
Expires: 180
Allow-Events: presence
Call-Info: <urn:x-cisco-remotec:callinfo>;x-cisco-video-traffic-class=VIDEO_UNSPECIFIED
Supported: X-cisco-srtp-fallback
Supported: Geolocation
Session-Expires: 1800;refresher=uas
Min-SE: 1800
P-Asserted-Identity: <sip:1003@10.66.87.195>
Remote-Party-ID: <sip:1003@10.66.87.195>;party=calling;screen=yes;privacy=off
Contact: <sip:10.66.87.195:5060;transport=tcp>
Content-Length: 0
```

要在遠端裝置上接收主叫方號碼，需要將其配置為以下其中一項：

- 中繼配置上的呼叫方轉換掩碼
- 路由模式上的主叫方轉換掩碼
- 思科網關上的語音轉換規則

當在路由模式（主叫方轉換掩碼）上配置中繼直接撥入(DID)號碼時，數字分析顯示CallingPartyNumber欄位已更新。

```
16759993.008 |19:12:08.414 |AppInfo |Digit analysis: match(pi="1", fqc=" ", cn=" ", plv="5",
pss="test:Phones", TodFilteredPss="test:Phones", dd="3001", dac="0")
16759993.009 |19:12:08.414 |AppInfo |Digit analysis: analysis results
16759993.010 |19:12:08.414 |AppInfo ||PretransformCallingPartyNumber=
|CallingPartyNumber=777777
|DialingPartition=Phones
|DialingPattern=3001
|FullyQualifiedCalledPartyNumber=3001
|DialingPatternRegularExpression=(3001)
|DialingWhere=
|PatternType=Enterprise
|PotentialMatches=NoPotentialMatchesExist
|DialingSdlProcessId=(0,0,0)
|PretransformDigitString=3001
|PretransformTagsList=SUBSCRIBER
|PretransformPositionalMatchList=3001
|CollectedDigits=3001
|UnconsumedDigits=
|TagsList=SUBSCRIBER
|PositionalMatchList=3001
|VoiceMailbox=
|VoiceMailCallingSearchSpace=Global Learned E164 Numbers:Directory URI:Phones
|VoiceMailPilotNumber=88800
|RouteBlockFlag=RouteThisPattern
|RouteBlockCause=0
|AlertingName=
|UnicodeDisplayName=
|DisplayNameLocale=1
|OverlapSendingFlagEnabled=0
|WithTags=
```

遠端目標的SIP INVITE將主叫方號碼顯示為中繼DID。這會導致在CTI RD振鈴時中繼的DID顯示為主叫方號碼。

```
16484506.001 |18:32:10.720 |AppInfo |SIPTcp - wait_SdlSPISignal: Outgoing SIP TCP message to
10.66.87.204 on port 5060 index 951
[1255331,NET]
INVITE sip:3001@10.66.87.204:5060 SIP/2.0
Via: SIP/2.0/TCP 10.66.87.195:5060;branch=z9hG4bK6bd621bee81d7
From: "VoiceConnect"
```

```
ag=624206~59c9c4bc-724d-e1f0-017a-a8992d4fc521-19395539
To: <sip:3001@10.66.87.204>
Date: Wed, 17 May 2017 08:32:10 GMT
Call-ID: 506b6680-91c10a8a-6ba4d-c357420a@10.66.87.195
Supported: timer,resource-priority,replaces
Min-SE: 1800
User-Agent: Cisco-CUCM10.5
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
CSeq: 101 INVITE
Expires: 180
Allow-Events: presence, kpml
Supported: X-cisco-srtp-fallback,X-cisco-original-called
Call-Info: <sip:10.66.87.195:5060>;method="NOTIFY;Event=telephone-event;Duration=500"
Call-Info: <urn:x-cisco-remotecallinfo>;x-cisco-video-traffic-class=VIDEO_UNSPECIFIED
Cisco-Guid: 1349215872-0000065536-0000000144-3277275658
Session-Expires: 1800
P-Asserted-Identity: "VoiceConnect" <sip:777777@10.66.87.195>
Remote-Party-ID: "VoiceConnect" <sip:777777@10.66.87.195>;party=calling;screen=yes;privacy=off
```

Contact: <sip:777777@10.66.87.195:5060;transport=tcp>;isFocus

Max-Forwards: 70

Content-Length: 0