Configure Extend and Connect Feature for UCCX

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Introduction

This document describes how to configure Extend and Connect Feature for Cisco Unified Contact Center Express (UCCX).

With the Extend and Connect feature, Unified Contact Center Express agents and supervisors can work from a remote location using any device. This feature gives the user (agent or supervisor) the flexibility to answer or make calls using devices that are connected to the PSTN or to mobile or other PBX networks.

Extend and Connect functions by leveraging CTI remote device and persistent connection features of the Cisco Unified Communications Manager (CUCM)

Prerequisites

Requirements

Cisco recommends that you have knowledge of these topics:

- Cisco Unified Communications Manager (CUCM)
- Cisco Jabber
- Cisco Unified Contact Center Express

Components Used

The information in this document is based on these software and hardware versions:

- Cisco Unified Communications Manager (CUCM) 12.5
- Cisco Jabber 12.5.1
- Cisco Unified Contact Center Express (UCCX) 12.5(1)

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, make sure that you understand the potential impact of any command.

Configure

Configurations

Step 1. Create an Enduser with these parameters.

- 1. Enable Mobility.
- 2. Add these roles to Access Control Group:
- Standard CCM End-Users
- Standard CTI Enabled

| End User Configuration | | | |
|-------------------------------|-----------------------------|--|--|
| 🔚 Save 🗙 Delete 🕂 Add New | | | |
| Status Status: Ready | | | |
| User Information | | | |
| User Status | Enabled Local User | | |
| User ID* | remoteuser | | |
| Deserved | | | |
| Permissions Information | | | |
| Groups Standard CCM End Users | | | |
| Standard CTI Enabled | Add to Access Control Group | | |
| | View Details | | |
| | | | |

Step 2. Create a Cisco Unified Client Services Framework (CSF) Device.

- 1. Associate the Device to the end-user created in Step 1.
- 2. Associate the line to the same end-user.

| •• — | | and Considered Freemands | |
|--|---|--|----|
| Modify Button Items | Device Protocol: SIP | ent Services Framework | |
| The [1] - 1400 (no pai | rtition) | | |
| Line [2] - Add a new D | N Real-time Device Status | Real-time Device Status | |
| Int Line [3] - Add a new D | N Registration: Unknown IPv4 Address: None | Registration: Unknown | |
| Ine [4] - Add a new D | N | | _ |
| em: Line [5] - Add a new D | N Device Information | | |
| area Line [6] - Add a new D | Device is Active | | |
| The control of the co | Device is trusted | | |
| The [7] - Add a new D | N Device Name* | csfdevice1 | |
| The [8] - Add a new D | N Description | | |
| | Device Pool* | g711New | |
| | Common Device Configuration | < None > | |
| | Phone Button Template* | Standard Client Services Framework | |
| | Common Phone Profile* | Standard Common Phone Profile | |
| | Calling Search Space | < None > | |
| | AAR Calling Search Space | < None > | |
| | Media Resource Group List | < None > | |
| | User Hold MOH Audio Source | < None > | |
| | Network Hold MOH Audio Source | < None > | |
| | Location* | Hub_None | |
| | AAR Group | < None > | |
| | User Locale | < None > | |
| | Network Locale | < None > | |
| | Built In Bridge* | Default | |
| | Device Mobility Mode* | Default | |
| | Owner | User O Anonymous (Public/Shared Space) | æ) |
| | Owner User ID* | remoteuser | |

| Full Name | User ID |
|--|----------|
| remoteuser, re | moteuser |
| Associate End Users Select All Clear All Delete Selected | |

Step 3. Create a CTI Remote Device.

- 1. Select the Enduser Created in Step 1.
- 2. Add the line. Associate the line to the end-user created in Step 1.
- 3. In the CTI Remote Device Configuration page. Click on Add a New Remote Destination under Associated Remote Destinations.
- 4. In order to use the remote destination with Cisco Jabber clients must configure the destination name as *JabberRD*.
- 5. In the **Remote Destination Configuration** window, enter the External number for the user in the **Destination** field.

For instance, the external number is the mobile number of the Agent with Route Pattern Prefix if any.

Enable Extend and Connected field is checked by default.

| Phone Configuration | | | | | |
|---------------------------------------|---|--|---------------|--|--|
| 🔜 Save 🗶 Delete 📄 Copy 睯 R | eset 🥒 Apply Config 🕂 Add I | New | | | |
| L | | | | | |
| Association Phone Type | | | | | |
| 1 era: Line [1] - 1401 (no partition) | Product Type: CTI Remote Device | | | | |
| 2 Internet Line [2] - Add a new DN | | | | | |
| | Resistantians Desistand with | Ciese Unified Communications Manager 1 | 0 106 104 220 | | |
| | Registration: Registered with Cisco Unified Communications Manager 10.106.104.220 | | | | |
| | 1Pv4 Address: | | | | |
| | Device Information | | | | |
| | Device is Active | | | | |
| | A Device is Active | | | | |
| Law Device is not trusted | | | | | |
| Active Remote Destination none | | | | | |
| | Owner User ID* remoteuser 🗘 | | | | |
| | | | | | |
| | | | | | |
| Directory Number Configuration | | | | | |
| 🔚 Save 🗶 Delete 🎦 Reset 🍐 | 🤌 Apply Config 🛛 🕂 Add New | | | | |
| | | | | | |
| Status | | | | | |
| i Status: Ready | | | | | |
| Directory Number Information | | | | | |
| Directory Number* | Directory Number* | | | | |
| 1401 | | orgent Phoney | | | |
| | | | | | |
| Users Associated with Line | | | | | |
| | Full Name | | | | |
| remoteuser, | | | remoteuser | | |
| Associate End Users Select All Cle | Delete Selected | | | | |

| Remote Destination Configurat | lion | | | |
|--------------------------------|------------------|--|--|---|
| 🕞 Save 🗶 Delete 🗋 Copy | Add New | | | |
| Status | | | | |
| (i) Status: Ready | | | | |
| CTI Remote Device | | Remote Destination Information | | |
| Line L | Line Association | Name | JabberRD | |
| Line [1] - 1401 (no partition) | V | Destination* | 92401 | |
| | | Mobility User ID* | remoteuser | 0 |
| | | Enable Unified Mobility features | | |
| | | Remote Destination Profile* | Not Selected | 0 |
| | | Single Number Reach Volcemail Policy* | Use System Default | 0 |
| | | ✓ Enable Single Number Reach Ring this phone and my business phone at ✓ Enable Move to Mobile If this is a mobile phone, transfer active cal ✓ Enable Extend and Connect Allow this phone to be controlled by CTI applicat | the same time when my business line(s) is d Ils to this phone when the mobility button on ions (e.g. Jahber) | ialed. your Cisco IP Phone is pressed. |
| | | CTI Remote Device* | CTIRDremoteuser | 0 |

Step 4. Go to the end-user configured in Step 1.

- 1. Associate both the CSF and CTI Remote device.
- 2. Select the Primary and IPCC Extension. IPCC Extension is the DN of the CTI Remote Device.

| Device Information | | |
|--------------------|-------------------------------|-----------|
| Controlled Devices | CTIRDremoteuser csfdevice1 | |
| Directory Number | Associations | |
| Primary Extension | 1400 | \$ |
| IPCC Extension | 1401 | \$ |

Step 5. Navigate to the rmcm application user. In Device Association, associate the CTI Remote device.

Step 6. Configuration in CCX.

1. In order to select Persistent Connection or Call by Call mode, under CCX administration page, navigate to **System > System Parameters > Persistent Connection**.

If you select disable on the persistent connection, it by default enables call by call mode. Refer UCCX design guide to understand the difference between persistent and call by call mode. 2. Configure the resource for required skills, resource group, team and etc.

Verify

Step 1. Log in to Jabber Device with the use of how the end-user is configured in Step 1.

In **Use other number of calls**, Select the external number configured for Remote Destination, as shown in this image.



Step 2. Verify that CTI Remote device shows registered and external number shows up as Active

Remote destination number.

| Phone Configuration | | | |
|--|------------------------------------|--|--|
| 📊 Save 💥 Delete 📄 Copy 🎦 Reset 🦼 | 🛃 Apply Config 👍 Add Ne | | |
| i Status: Ready | | | |
| Association | e Type | | |
| 1 Int Line [1] - 1401 (no partition) Produ | Product Type: CTI Remote Device | | |
| 2 emiliaria Line [2] - Add a new DN | New Device Chabus | | |
| Real- | Real-time Device Status | | |
| Regis IPv4 | Address: | isco Unined Communications Manager 10.106.104.220 | |
| Device Information | | | |
| 🗹 De | Z Device is Active | | |
| 🛆 De | rvice is not trusted | | |
| Active | Remote Destination | 92401 | |
| Owner | r User ID* | remoteuser 🗘 | |
| Device | e Name* | CTIRDremoteuser | |
| Descri | iption | | |
| Device | e Pool* | o711New | |
| Calling | g Search Space | < None > | |
| User H | Hold MOH Audio Source | < None > | |
| Netwo | ork Hold MOH Audio Source | < None > | |
| Locati | on* | Hub None | |
| User L | ocale | < None > | |
| Netwo | vrk Locale | | |
| Mohili | ty licer ID | | |
| | nore Presentation Indicators | s (internal calls only) | |
| Numb | Number Presentation Transformation | | |
| - Call | er ID For Calls From This | Phone | |
| Call | no Party Transformation (CS | 6 | |
| | Ite Device Real Calling Parts | v Transformation CSS (Caller ID For Calls From This Phone) | |
| | use bevice root calling ran | y nansionnation C33 (Caller 10 For Calls From This Phone) | |
| Rem | note Number | | |
| Calli | ng Party Transformation CS | S <none> 0</none> | |
| | Use Device Pool Calling Party | y Transformation CSS (Device Mobility Related Information) | |
| Proto | col Specific Information | | |
| BLF Pr | resence Group* | Standard Presence group | |
| SUBS | CRIBE Calling Search Space | < None > | |
| Rerou | ting Calling Search Space | < None > | |
| Assoc | ciated Remote Destination | ns | |
| | oute calls to all remote desti | nations when client is not connected | |
| | Name | Destination | |
| Jat | bberRD | 92401 | |
| Ad | d a New Remote Destination | | |

Step 3. The procedure to verify the Cisco Finesse Desktop Login to extend and connect feature in persistent mode is below

- 1. Log in to Cisco Finesse Desktop using credentials for the end-user created in Step1 and CTI RD extension.
- 2. Verify that External Number for the CTI RD gets the call when you click the login button on finesse.
- 3. At the same time, Jabber Device shows "EC Mode" with an indication that incoming call is on the external number.

Note: In Call By Call Mode, the external number doesn't get this call during agent login.



4. Jabber shows EC Mode after the call answered at the external device.



5. In the Cisco Finesse Desktop, change the state to Ready. Verify that able to answer calls using Cisco Finesse Desktop.

Troubleshoot

There is currently no specific troubleshooting information available for this configuration.

Related Information

- <u>Home Agent with Extend and Connect</u> in Solution Design Guide for Cisco Unified Contact Center Express.
- Extend and Connect in Cisco Unified Contact Center Express Administration and Operations Guide
- <u>Extend and Connect</u> in Feature Configuration Guide for Cisco Unified Communications Manager.