Agile WFO for SMB

Customer Guide to Cisco Automatic Integrations

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- Version: Cisco Automatic versions 10.5-12.5 are supported. This guide should be used with NICE Uptivity v18.x and higher.
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Introduction

Audience

This document is written for customers and prospective customers interested in using NICE Uptivity in a Cisco Automatic telephony environment. Readers who will perform procedures in this guide should have a basic level of familiarity with IP telephony, general networking, the Windows operating system, Cisco VoIP telephony, and NICE Uptivity.

Goals

The goal of this document is to provide knowledge, reference, and procedural information necessary to understand a proposed Cisco/ NICE Uptivity integration using Cisco Automatic, and to configure the Cisco equipment to support the integration.

This document is NOT intended as a specific system or network design document. If further clarification is needed, consult with your telephony vendor(s).

Assumptions

This document assumes the reader has access to an NICE Uptivity Sales Engineer, Project Manager, or other resource to assist in applying this information to the reader's environment.

Need-to-Knows

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To facilitate ease of use, this document takes advantage of PDF bookmarks. By opening the bookmark pane, readers can easily refer to the portion(s) of the guide that are relevant to their needs. For example, the Uptivity application administrator can click on the **Customer Administration Tasks** bookmark to jump directly to that section.

To expand and collapse the bookmark pane, click on the bookmark icon on the left side of the document window.

For questions related to Uptivity configuration, consult the Uptivity installation team.

Introduction

Cisco Automatic can also be used, in various combinations, with TAPI, Cisco UCCE, or Cisco UCCX. In these scenarios, refer to the *Customer Guide to Cisco UCCE Integrations,* or the *Customer Guide to Cisco UCCX Integrations*, as appropriate.

Terminology

To ensure a common frame of reference, this guide uses the following terms:

- CUCM Cisco Unified Communications Manager. CUCM is a software-based call-processing system that includes gateways, routers, phones, voicemail boxes, and a variety of other VoIP components. Sometimes referred to as CallManager.
- UCCE Unified Contact Center Enterprise. UCCE delivers intelligent contact routing, call treatment, network-to-desktop CTI, and multichannel contact management over an IP infrastructure. It combines multichannel ACD functionality with IP telephony in a single solution.
- **UCCX** Unified Contact Center Express. UCCX is a single-server customer interaction management solution for up to 400 agents.
- **TAPI** Telephony Application Programming Interface. Like JTAPI, Cisco TAPI allows custom applications to monitor and interact with the CUCM and Cisco IP phones.
- **BiB** Built-in Bridge. Capability of some Cisco IP phone models to fork the media stream and deliver audio from both sides of a phone call to an alternate destination (for example, NICE Uptivity).

Customer Responsibilities

You are responsible for supplying the physical connection(s), IP connection(s), or both to your telephone system and LAN, and for obtaining and loading any licensing required by Cisco. You are also responsible for configuring Cisco system components to support the recording integration. See the <u>Customer Integration</u> <u>Tasks</u> section for additional information.

Cisco Automatic Integration Overview

The Cisco Automatic integration uses the built-in bridge functionality of specific Cisco IP phones to fork the audio stream and deliver duplicate audio to NICE Uptivity. The call recordings are started when a SIP Invite message is received on the recorder. If paired with CTI source such UCCE, UCCX, or TAPI the call is stopped on a CTI event. If no CTI source is configured the calls will stop on a SIP BYE message.



General architectural example of the Cisco Automatic integration

Component	Function
Voice Gateway	Connects the customer network to the public network.
Cisco Unified Communications Manager (UCM)	The CUCM negotiates audio stream network ports and codecs between the phone and Uptivity using SIP on the Uptivity side and SCCP or SIP to the phone. Audio is redirected to the Uptivity recording server through a SIP Trunk.
NICE Uptivity	Receives call control events and business data and provides a CTI interface for recording. The Uptivity server has these responsibilities:
Application Server	• Sending call start/call stop messages using the Uptivity API
	Starting and stopping recordings
	• Providing a SIP Trunk endpoint the CUCM uses for recording Copying finished recordings to the Uptivity storage location
Third Generation Phones	 Each third generation phone being recorded uses built-in bridge to forward audio streams for each side of the call to Uptivity.

Known Limitations

- The CUCM does not allow monitoring or recording of whisper intercom and talkback intercom calls (see "Intercom" in the *Cisco Unified CM Features and Services Guide*).
- DSP limitations in some phone models require both inbound and outbound audio streams on a phone to utilize the same codec.
- Cisco does not support BiB recording for phones that route through a phone proxy.

Audio Codec Support

The following codecs are supported by Uptivity for recording. Depending on the phone model used and DSP resources available, not all codecs may be supported by your CUCM. If you have any difficulties enabling a specific codec, please contact your Cisco support resource for assistance.

- G.711
- G.722
- G.729a
- iLBC

Cisco Automatic Integration Overview

Cisco Requirements

Hardware

The features used in this method of recording require third generation phones that have BiB capability. Agent devices (phones) must be able to mix media for monitoring and to fork media for recording. The list of devices that support the monitoring and recording features varies per version and device pack. If you have questions, consult your Cisco account management team to determine whether your telephone sets have this capability.

Software

- Support for Uptivity Record started with Cisco Unified Communications Manager v10.0.
- If using TAPI for metadata and call stops the Cisco TAPI Service Provider (TSP) must be installed on the Uptivity system
- The following table specifies supported Windows OS versions with the corresponding minimum version of the TSP required for each OS version:

Operating System	32-bit	64-bit	TSP Version Required
Windows 2008 R2	х	\checkmark	Windows 2008 R2 requires Cisco TSP 8.5(1) or later.
Windows 2012 R2	х	\checkmark	Windows 2012 requires Cisco TSP 10.0 or later. Windows 2012 R2 requires Cisco TSP 10.5 or later.
Windows 2016	х	\checkmark	Windows 2016 requires Cisco TSP 11.5 or later.

Licensing

Each device (Cisco Unified IP Phones, soft phones, third-party devices, and video devices) provisioned in the system corresponds to a number of device license units (DLUs), depending on its capabilities. The total number of units is managed in CUCM to determine capacity. The integration uses the BiB capabilities for each recorded phone.

NICE Uptivity Requirements

Network

Sufficient network bandwidth is required to support audio traffic between each agent phone being recorded and Uptivity.

Hardware

Uptivity hardware requirements vary depending on system configurations. Appropriate hardware is identified during the system implementation process. For additional information, search online help for keyword *site requirements*.

Software

• NICE Uptivity

Additional third-party software is required for this integration:

• CACE WinPcap version 4.1.x (available from the WinPcap website)

Licensing

- One (1) Voice seat license per named agent or
- One (1) Voice concurrent session license for each simultaneous call that will be recorded
- Additional licensing may be needed if optional features (such as inContact Screen Recording) are included in the system.

Cisco Automatic Integration Overview

Customer Configuration Overview

The following table provides a high-level overview of the customer configuration steps in Cisco Automatic integrations. Links are provided for tasks that are covered in this guide.

	Customer Configuration Steps for Cisco Automatic Integrations
1	Complete all necessary physical and IP connections between the recording server(s) and the LAN.
2	Obtain any necessary Cisco software and licensing.
3	<u>Identify Phones that Support Recording</u> . This step is to verify that all desired recording locations have an appropriate phone.
4	If needed Configure a TAPI User Account for Uptivity.
5	
6	
7	
8	Create a Route Pattern for the SIP Recording Trunk.
9	
10	For all phones to be recorded,
11	For all phones to be recorded, <u>Add Recording Option and Recording Profile to Line</u> <u>Appearances</u> . Tell your Uptivity installation team which Recording Option you select.

The information in this section is provided for your reference only. Detailed steps for Cisco configuration can be found in Cisco's documentation, which is available on the Cisco website. You should always use the appropriate documentation from Cisco to install and configure Cisco components.

Instructions in these procedures assume that your Cisco environment uses the default settings. You should note any non-default settings and discuss them with your Uptivity installation team.

Most of the instructions in this section are based on CUCM Administrator v9.1. Other versions may have different settings.

NICE inContact recommends that administrators performing the configuration tasks for any Cisco integration use the <u>Customer Configuration Overview</u> table and check each customer step as it is completed. You may also print each configuration procedure and check each step in the procedure as you complete it. The majority of Uptivity deployments which experience initial errors do so because of a Cisco setting being missed.

If you are combining the Cisco Automatic integration with an additional integration like UCCE, or UCCX, complete the customer procedures for this integration first. Then complete the tasks in the additional appropriate guide(s).

Identify Phones that Support Recording

☑ For additional information about the Cisco Unified Reporting application, refer to the Cisco Unified Reporting Administration Guide.

Cisco Unif	fied Reporting ed Communications Solutions			Navigation Cisco Unified Reporting - Go admin Search Documentation About Logout
System Reports Help 🔻				
System Reports				
Report Descriptions	OK: Report generated succ	assfully.		
Unified CM Cluster				
Overview	Unified CM Phone Fe	ature List		
Unified CM Data				Li
Summary	Provides a complete list of feat	ures available to product	s supported by Unified CM.	
Replication Debug	Created on Wed Nov 06 13:56	:15 EST 2013		
Unified CM Database				
Status	Product: All		•	
Unified CM Device Counts Summary	Feature: Record		-	
Unified CM Device	Reset Submit			
Distribution Summary	L			
Unified CM Duplicate	-Unified CM Cluster Name-			
Unified CM Extension	- Onlined CPI Cluster Name			
Mobility	Cluster Name Public	sher Name/IP		
Unified CM	StandAloneCluster cucm85	5		
GeoLocation Policy	L			
Unified CM GeoLocation Policy with	- List Features			
Filter				
Unified CM Lines	Product	Protocol	Av Feature Av Parameters Av	- III
Without Phones	Cisco 6911	SCCP	Record	=
Devices	Cisco 6941	SCCP	Record	
Unified CM Phone	Cisco 6945	SCCP	Record	
Feature List	Cisco 6961	SCCP	Record	
Unified CM Phones	Cisco 7906	SCCP	Record	
Unified CM Phones	Cisco 7910	SCCP	Record	
Without Lines	Cisco 7911	SCCP	Record	
			Desered	
Unified CM Shared	Cisco 7921	SCCP	Record	
Unified CM Shared Lines	Cisco 7921 Cisco 7925	SCCP	Record	
Unified CM Shared Lines Unified CM Table Count	Cisco 7921 Cisco 7925 Cisco 7926	SCCP SCCP SCCP	Record Record Record	
Unified CM Shared Lines Unified CM Table Count Summary Unified CM User Device	Cisco 7921 Cisco 7925 Cisco 7926 Cisco 7931	SCCP SCCP SCCP SCCP	Record Record Record Record	

You can use the Cisco Unified Reporting application to generate a complete list of devices that support monitoring and recording for a particular release and device pack.

- 1. Start Cisco Unified Reporting in one of these ways:
 - a. Choose **Cisco Unified Reporting** in the Navigation menu in Cisco Unified Communications Manager Administration and click **Go**.
 - b. Choose File > Cisco Unified Reporting at the Cisco Unified Real Time Monitoring Tool (RTMT) menu.
 - c. Enter https://<server name or IP address>:8443/cucreports/ and then enter your authorized username and password.
- 2. Click **System Reports** in the navigation bar and in the left column list of reports, click **Unified CM Phone Feature List**.
- 3. Click **Generate a new report** to generate a new report or click **Unified CM Phone Feature List** if the report already exists.
- 4. For **Product**, select *All* from the drop-down list.

- 5. For **Feature**, select *Record* from the drop-down list.
- 6. Click **Submit**.

The **List Features** pane displays a list of all devices that support the recording feature. You can click on the up and down arrows next to the column headers (**Product** or **Protocol**) to sort the list.

Configure a TAPI User Account for Uptivity

If TAPI is needed, a user account must be created on the CUCM for Uptivity to use to connect and receive TAPI events for phones. This user account must be configured to monitor all devices that you want to record. If a device is not listed as a **Controlled Device** in the **Device Information** section of the user account, it will **not** be monitored or recorded. Device IDs shown in this section are the Selsius identifiers of the phones ("SEP" followed by the MAC address of the device).

The Uptivity user account must also be added to all Access Control Groups whose names begin with "Standard CTI" **except** for the "Standard CTI Allow Reception of SRTP Key Material" and "Standard CTI Secure Connection" groups. Only select the Secure Connection group if TAPI encryption is configured. If you select this group and encryption is not configured, the CUCM can refuse "insecure" or non-encrypted connections, and call recording will not occur.

- 1. Log in to the **Cisco Unified CM Administration** portal with an administrative account.
- 2. Select User Management > Application User.
- 3. On the Find and List Application Users page, click Add New.
- On the Application User Configuration page, set the User ID field and the Password in the Application User Information section. Note these values and provide them to your Uptivity installation team.
- 5. Under **Device Information**, move any devices that Uptivity will record to the **Controlled Devices** panel.

- Device Information			
Available Devices	SEP001380C29B23 SEP001E4A924C13 SEP001EF7C3F62B SEP001F6C810D39		Find more Phones
	SEP44ADD9BC39EE	*	
	* *		
Controlled Devices	SEP001280E52C21	*	
	SEP00137F0031C8		
	SEP00137F0031C9		
	SEP001646CB51B2		
	SEP001E7AC340E0	+	

- 6. Under Permissions Information, click Add to Access Control Group.
- 7. Select the appropriate groups (note the excluded groups in the following image) and click **Add Selected**.

Γ.	Name *	Roles	Copy
$\overline{\mathbf{v}}$	Standard CTI Allow Call Monitoring	()	0
~	Standard CTI Allow Call Park Monitoring	(j)	D.
7	Standard CTI Allow Call Recording	1	D
2	Standard CTI Allow Calling Number Modification	()	0
~	Standard CTI Allow Control of All Devices	()	D
	Standard CTI Allow Control of Phones supporting Connected Xfer and conf	()	Ð
1	Standard CTI Allow Control of Phones supporting Rollover Mode	()	D
Γ.	Standard CTI Allow Reception of SRTP Key Material	(Ø
1	Standard CTI Enabled	()	D
-	Standard CTI Secure Connection	(j)	D

Configure a SIP Trunk Security Profile for the Recording Trunk

Name*	CallCopy SIP Trunk Security Profile	
Description	CallCopy SIP Trunk Security Profile	
Device Security Mode	Non Secure	
Incoming Transport Type*	TCP+UDP	
Dutgoing Transport Type	UDP	-
Enable Digest Authentical	ion	
Nonce Validity Time (mins)*	600	
K.509 Subject Name		
incoming Port*	5060	
Enable Application Level	Authorization	
Accept Presence Subscrip	otion	
Accept Out-of-Dialog REF	ER**	
Accept Unsolicited Notific	ation	
Accept Replaces Header		
Transmit Security Status		

NICE inContact recommends creating a separate SIP trunk security profile for the trunk between the CUCM and the recording server. This profile prevents changes made to other security profiles from interfering with call recording. Since changing security settings requires a restart of any trunks using these settings, creating a separate security profile also minimizes the need to reset existing SIP trunks.

- 1. Log in to the **Cisco Unified CM Administration** portal with an administrative account.
- 2. Select **System > Security > SIP Trunk Security Profile**.
- 3. Click Add New.
- 4. Enter a **Name** and a **Description** for this trunk.
- 5. For **Device Security Mode**, select *Non Secure* from the drop-down list.
- 6. For **Incoming Transport Type**, select **TCP+UDP** from the drop-down list.
- 7. For **Outgoing Transport Type**, select **UDP** from the drop-down list.
- 8. Do not select (or clear if selected) the checkbox for **Enable Digest** Authentication.

Leave all other settings at their default values.

Configure a SIP Profile for the Recording Trunk

NICE inContact recommends creating a separate SIP profile for the recording trunk, which protects it from changes made to SIP profiles for other trunks. All SIP devices using this profile must be restarted before any changes will take effect. This SIP profile should use the default settings shown in the images in this section. If any settings in your SIP profile do not match, discuss this with your Uptivity installation team.

- 1. Log in to the **Cisco Unified CM Administration** portal with an administrative account.
- 2. Select **Device > Device Settings > SIP Profile**.
- 3. Click **Add New**.
- 4. Enter a Name and Description for the SIP profile.
- 5. Verify the settings as shown and then click **Save**.

-SIP Profile Information				
Name*	Gschmidt Dev SIP Profile			
Description	Gschmidt Dev SIP Profile			
Default MTP Telephony Event Payload Type*	101			
Early Offer for G.Clear Calls*	Disabled -			
SDP Session-level Bandwidth Modifier for Early Offer and Re-invites st	TIAS and AS 🔹			
User-Agent and Server header information*	Send Unified CM Version Information as User-Agen \bullet			
Accept Audio Codec Preferences in Received Offer*	Default 👻			
Dial String Interpretation*	Phone number consists of characters 0-9, *, #, and \checkmark			
Redirect by Application				
Disable Early Media on 180				
Outgoing T.38 INVITE include audio mline				
Enable ANAT				
Require SDP Inactive Exchange for Mid-Call Media Change				
Use Fully Qualified Domain Name in SIP Requests				
Assured Services SIP conformance				

Parameters used in Phone		
Timer Invite Expires (seconds)*	180	
Timer Register Delta (seconds)*	5	1
Timer Register Expires (seconds)*	3600	1
Timer T1 (msec)*	500	1
Timer T2 (msec)*	4000	1
Retry INVITE*	6	í
Retry Non-INVITE*	10	í
Start Media Port*	16384	ĺ
Stop Media Port*	32766	ĺ
Call Pickup URI*	x-cisco-serviceuri-pickup	ĺ
Call Pickup Group Other URI*	x-cisco-serviceuri-opickup	1
Call Pickup Group URI*	x-cisco-serviceuri-gpickup	ĺ
Meet Me Service URI*	x-cisco-serviceuri-meetme	1
User Info*	None	
DTMF DB Level*	Nominal	
Call Hold Ring Back*	Off 🗸	
Anonymous Call Block*	Off 🗸	
Caller ID Blocking*	Off 🗸	
Do Not Disturb Control*	User 🗸	
Telnet Level for 7940 and 7960*	Disabled 🗸	
Resource Priority Namespace	< None >	
Timer Keep Alive Expires (seconds)*	120]
Timer Subscribe Expires (seconds)*	120]
Timer Subscribe Delta (seconds)*	5]
Maximum Redirections*	70]
Off Hook To First Digit Timer (milliseconds)*	15000]
Call Forward URI*	x-cisco-serviceuri-cfwdall]
Speed Dial (Abbreviated Dial) URI*	x-cisco-serviceuri-abbrdial	j
Conference Join Enabled		
RFC 2543 Hold		
Semi Attended Transfer		
Enable VAD		
Stutter Message Waiting		
MLPP User Authorization		

-Normalization Script				
Normalization Script < None >	•			
Enable Trace				
Parameter Name		Parameter Value		
1				
- Incoming Requests FROM URI Settings				
Caller ID DN				
Caller Name				
Trunk Specific Configuration				
Reroute Incoming Request to new Trunk based on*	Never			
RSVP Over SIP*	Local RSVP	T		
Resource Priority Namespace List	< None >			
Fall back to local RSVP				
SIP Rel1XX Options*	Disabled	_		
Video Call Traffic Class*	Mixed	•		
Calling Line Identification Presentation*	Default	▼		
Deliver Conference Bridge Identifier				
Early Offer support for voice and video calls (in:	sert MTP if needed)			
Send send-receive SDP in mid-call INVITE				
Allow Presentation Sharing using BFCP				
Allow iX Application Media				
Allow Passthrough of Configured Line Device C	aller Information			
Reject Anonymous Incoming Calls				
Reject Anonymous Outgoing Calls				
Eachie OPTIONS Bins to monitor destination	status fas Tsuaks with	- Farvier Type "Name (Default)"		
Ping Interval for In-service and Partially In-servi	ce Trunks (seconds)*	* 60		
Ping Interval for Out-of-service Trunks (seconds)	*	120		
Ping Retry Timer (milliseconds)*		500		
Ping Retry Count*				
		6		

Create the SIP Recording Trunk

The audio streams to be recorded will be routed to Uptivity over a SIP trunk configured on the CUCM. Except where specifically noted, all settings should match the default settings shown in the images in this section. If any settings in your SIP profile do not match, discuss this with your Uptivity installation team.

- 1. Log in to the **Cisco Unified CM Administration** portal with an administrative account.
- 2. Select **Device** > **Trunk**.
- 3. Click Add New.
- 4. For **Trunk Type**, select *SIP Trunk* from the drop-down list.
- 5. For **Device Protocol**, select *SIP* from the drop-down list.
- For Trunk Service Type, leave the setting at None (Default), and click Next.
- 7. Enter a **Device Name**.
- 8. For **Device Pool**, select **Default** from the drop-down list.
- 9. In Destination Address in the SIP Information, enter the IP address assigned to the Uptivity recording server (that is, the server on which the CTI Core service for this integration is running). If multiple destinations are configured, you must enable the SIP Options Ping setting for the SIP Profile that is associated to the recorder's SIP trunk.
- 10. In **Destination Port** in the **SIP Information**, enter **5060**.
- 11. For **SIP Trunk Security Profile** under **SIP Information**, enter the name of the profile this trunk will use (see

- 12. <u>Configure a SIP Trunk Security Profile for the Recording</u> Trunk).
- 13. For **SIP Profile** under **SIP Information**, enter the name of the profile this trunk will use (see

14. <u>Configure a SIP Profile for the Recording</u> Trunk).

15. Verify that all remaining settings on the **Trunk Configuration** page match the default settings in the images shown here and click **Save**.

Device Information				
Product:	SIP Trunk			
Device Protocol:	SIP			
Trunk Service Type	None(Default)			
Device Name*	CallCopyRecorder			
Description				
Device Pool*	Default	•		
Common Device Configuration	< None >	~		
Call Classification *	Use System Default	-		
Media Resource Group List	< None >	~		
Location *	Hub_None	•		
AAR Group	< None >	-		
Tunneled Protocol*	None	•		
QSIG Variant*	No Changes	Ŧ		
ASN.1 ROSE OID Encoding*	No Changes	Ŧ		
Packet Capture Mode*	None	~		
Packet Capture Duration	0			
Media Termination Point Required				
Retry Video Call as Audio				
Path Replacement Support				
Transmit UTF-8 for Calling Party Name				
Transmit UTF-8 Names in QSIG APDU				
Unattended Port				
SRTP Allowed - When this flag is checked, Encry to do so will expose keys and other information.	pted TLS needs to be configured in the network to	provide end to end security. Failure		
Consider Traffic on This Trunk Secure *	When using both sRTP and TLS	Ŧ		
Route Class Signaling Enabled*	Default	•		
Use Trusted Relay Point [*]	Default	•		
STN Access				
Run On All Active Unified CM Nodes				

Call Routing Information					
Remote-Party-Id					
Asserted-Identity					
Asserted-Type Default	_				
SIP Privacy* Default					
Tobard Tolla	•				
- Indound Calls					
Significant Ligits"	All				
Connected Line ID Presentation*	Default				
Connected Name Presentation*	Default				
Calling Search Space	< None >	-			
AAR calling search space	< None >				
Pretx UN					
Redirecting Diversion Header	Delivery - Inbound				
-Incoming Calling Party Settin					
If the administrator sets the p	why to Debuilt this indicates call procession will us	e prefix at the payt level set	ing (DeviceBool/Service Bar	meter). Otherwise, the value configured is used as the prefix uple	ss the field is empty in which case there is no prefy assigned
			Class Deaths Collinso		
			ciear Prenx Secongs	Deladit Pieto Settings	
Number Type	Prefix	Strip Digits		Celling Search Space	Use Device Pool C55
Incoming Number	Default	0	< None >	~	
Connected Party Settings-					
Connected Party Transformation	CSS < None >	_			
Use Device Pool Connected	Party Transformation CSS				
Outbound Calls					
Called Party Transformation CSS	< None >	_			
Use Device Pool Called Party	Transformation CSS				
Calling Party Transformation CSS	< None >	-			
Use Device Pool Calling Party	Transformation CSS				
Calling Party Selection [®]	Originator	_			
Calling Line ID Presentation*	Allowed	-			
Calling Name Presentation*	Allowed				
Calling and Connected Party Info Fi	ormat* Deliver DN only in connected party	-			
Redirecting Diversion Header	Delivery - Outbound				
Redirecting Party Transformation (CSS < None >	•			
Use Device Pool Redirecting P	Party Transformation CSS				
Caller Information					
Caller ID DN					
Caller Name					
Maintain Original Caller ID	DN and Caller Name in Identity Headers				

SIP Information				
Destination Destination Address is an SRV				
Destination Address	Destination Address IPv6	Destination Port		
MTP Preferred Originating Codec*	711ulaw	▼		
Presence Group*	Standard Presence group	•		
SIP Trunk Security Profile*	CallCopy SIP Trunk Security Profile	•		
Rerouting Calling Search Space	< None >	•		
Out-Of-Dialog Refer Calling Search Space	< None >	•		
SUBSCRIBE Calling Search Space	< None >	•		
SIP Profile*	CallCopy SIP Profile	•		
DTMF Signaling Method *	No Preference	•		
Normalization Script				
Normalization Script < None >	▼			
Enable Trace				
Parameter Name Parameter Value				

Create a Route Pattern for the SIP Recording Trunk

You must configure a route pattern extension to route audio streams from the BiB to the newly-created SIP trunk.

- 1. Log in to the **Cisco Unified CM Administration** portal with an administrative account.
- 2. Select Call Routing > Route/Hunt > Route Pattern.
- 3. Click Add New.
- 4. Enter a **Route Pattern** number.
- 5. Set the **Gateway/Route List** value to the SIP trunk.
- Do not select (or clear if selected) the check box for Require Forced Authorization Code. This pattern cannot require a forced authorization code or Uptivity will not receive call audio.
- 7. Click Save.

If you receive messages about activating an Authorization Code and resetting the Gateway, follow the direction specified in those messages.

Create a Recording Profile

Put your section name here-		
Name*	CallCopy Recorder	
Recording Calling Search Space	< None >	•
Recording Destination Address*	7778	
- Save		

You must create a recording profile for the route pattern assigned to the SIP recording trunk. This recording profile must reference the correct recording calling search space for the phones you wish to record. A misconfigured search space can result in recordings with no audio and line errors in logging.

- 1. Log in to the **Cisco Unified CM Administration** portal with an administrative account.
- 2. Select **Device > Device Settings > Recording Profile**.
- 3. Click **Add New**.
- 4. Enter a Name.
- 5. For **Recording Calling Search Space**, select *None*, *Default*, or the appropriate search space from the drop-down list.
- 6. For **Recording Destination Address**, enter the route pattern assigned to the SIP recording trunk.
- 7. Click Save.

Enable Built-in-Bridge, Disable Privacy

Built-in-Bridge (BiB) and Privacy mode can be configured at both the device and server level. The instructions below are for devices.

BiB and Privacy have these setting options: **On**, **Off**, and **Default**. The **Default** option causes the device to use the server-level value for this setting and you must select this value if these settings are configured at the server level. If **Default** is not used, the device-level setting overrides the server-level setting. Conflicts between the server and device-level settings prevent call recording.

You must enable the BiB feature on every phone to be recorded. This feature is what creates a separate audio stream of any in-progress call and routes it to the Uptivity system for recording. You can optionally use the Bulk Administration Tool to create and schedule a job that will update multiple phones at once. See your Cisco documentation for specific instructions.

Device Information		
Registration	Registered with Cisco Unified Communication	is Manager cucm85
IP Address	10.100.10.63	
Active Load ID	SCCP42.9-1-1SR1S	
Device is Active		
Device is trusted		
MAC Address*	001E4A924C13	
Description	SEP001E4A924C13	
Device Pool*	Default	 View Details
Common Device Configuration	< None >	 View Details
-1-		
Network Locale	< None >	~
Built In Bridge*	On	•
Privacy*	Off	•
Device Mobility Mode*	Default	View Current Device Mobility

- 1. Log in to the **Cisco Unified CM Administration** portal with an administrative account.
- 2. Select **Device** > **Phone**.
- Run a query to locate devices you want to record. Queries can be run against many parameters, such as **Device Name** or a particular **Directory Number** associated with a device.
- 4. From the resulting list of phones, click **Device Name** to edit the **Phone Configuration**.
- 5. Under the Device Information section, set **Built-in-Bridge** to **On**.
- 6. Set **Privacy** to **Off**. Phones with the privacy feature enabled cannot be recorded.

Repeat this task for all phones to be recorded.

Add Recording Option and Recording Profile to Line Appearances

The recording profile (see

<u>Create a Recording</u> Profile) must be added to each individual line appearance on a phone so that recording is allowed for that appearance. You also need to configure recording options for the appearance. This integration supports the **Selective Call Recording Enabled** and **Automatic Call Recording Enabled** options. Your Uptivity installation team needs to know which recording option you are using.

An alternate way of locating directory numbers is to select **Call Routing** > **Directory Number**. You can optionally use the Bulk Administration Tool to schedule a job that will update multiple line appearances at once.

When you create new phones, be aware that using the **Copy** or **Super Copy** option does not copy the line/directory number information. The Add Recording Option and Recording Profile to Line Appearances task must be performed manually.

- 1. Log in to the **Cisco Unified CM Administration** portal with an administrative account.
- 2. Select **Device** > **Phone**.
- 3. Run a query to locate devices you want to record. Queries can be run against many parameters, such as **Device Name** or a particular **Directory Number** associated with a device.
- 4. From the resulting list of phones, click **Device Name** to edit the **Phone Configuration**.
- 5. Click the **Line Appearance** to be recorded under the **Association Information** section.



- 6. Enable the correct **Recording Option** in the **Line Settings** section.
- 7. Set **Recording Profile** to the profile created earlier.
- 8. Set Recording Media Source to Phone Preferred.
- 9. Set **Recording Option** to Automatic Call Recording Enabled.
- 10. Click Save.

Recording Option*	Automatic Call Recording Enabled	•
Recording Profile	QA	•
Recording Media Source*	Phone Preferred	•
Monitoring Calling Search Space	< None >	•

Repeat this task for any lines that will be recorded.

Customer Administration Tasks

There are no regular, ongoing administrative tasks related to this integration. If you add channels to your system, your Uptivity administrator will need to increase the channel count on the voice board in the **Web Portal**. For more information on voice board tasks, search online help for keyword *voice boards*.

You must restart the CTI Core service after any changes to voice boards, channels, or both.

Any other voice board changes should only be done under direct supervision from Uptivity Support. Done incorrectly, voice board modifications can have serious negative impact to your system. In addition, altering the hardware configuration of your system may void your warranty.

The Cisco Automatic integration streams audio from the phone to Uptivity and supports multiple calls on the same line or multiple lines on the same phone simultaneously. Therefore, it is important **not** to specify any devices on the voice board.