

# Integration

Title	Cisco Call manager Express SIP Integration			
Document	CISCO-SIP-IN			
Last update	2011/10/14			
<b>DuVoice Versions</b>	5.00 and above			
Switch Versions	N/A			

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## **Overview**

This document outlines how to configure the DuVoice system as a trunk to a CISCO PBX. This document does not cover the installation of either product and assumes installer is familiar with the programming of CISCO switches.

## **Theory of Operation**

The DuVoice system interfaces with the Cisco as a trunk.

#### **Features Supported**

Message Lights	Yes
Forward to personal greeting RNA	Yes
Forward to personal greeting Busy	Yes
Forward to personal greeting DND	Yes
Different busy greeting	Yes
Auto login to a mailbox	Yes
Multiple tenant	Yes
Voicemail transfer	Yes
Record a call	No
DID Fax	No
Caller ID with message	Yes

### Hospitality Features Supported

Room phone control	Yes
Wakeup calls	Yes
Failed wakeup alerting	Yes
Guest name changes	Yes
Room Clean - Room Dirty Status	N/A

## Requirements

- DuVoice 5.00 or above.
- Cisco IOS 12.x or above.
- SIP Trunks

## **CISCO** Configuration

In this sample configuration we are using 9000 as the trunk access number and 192.168.11.25 as the IP address for the DuVoice system. These should be changed to numbers matching the installation.

Items in bold are required.

### **Trunk Settings**

dial-peer voice 100 voip description DuVoice destination-pattern 9000 session protocol sipv2 session target ipv4:192.168.11.25 session transport tcp dtmf-relay rtp-nte codec g711ulaw

## **VoIP Settings**

voice service voip allow-connections sip to sip no supplementary-service sip moved-temporarily redirect ip2ip sip registrar server expires max 1200 min 300

Note: Enabling *supplementary-service sip moved-temporarily* will cause integration to fail with call forwarding.

#### SIP Settings

It's suggested to use unsolicited MWI. Replace the IP address shown with that of the DuVoice system.

sip-ua timers connect 100 mwi-server ipv4:192.168.11.25 expires 3600 port 5060 transport udp

#### **Skinny Station Settings**

If you have any stations using the CISCO skinny interface and the DuVoice for voicemail you need to add the following setting.

mwi sip

#### **SIP Station Settings**

For any SIP stations simply add the following to their configuration.

mwi

### **Unified CME interface**

This interface allows the DuVoice to change names of stations and the outgoing call permissions. Replace dvuser with a user name of your choice and dvpassword with a password.

telephony-service

```
xml user dvuser password dvpassword 15
```

## **DuVoice Configuration**

These steps will guide you through configuring your system to connect with the CISCO. For more information please see the DuVoice Manual located on the system desktop, also located in the DuVoice folder in the Start Menu or online at http://manual.duvoice.com.

#### **Port Configuration**

Run System Configuration from the start menu located in the DuVoice folder.

🕱 System Configuration					- • ×
Password Define Ports	Integrations Loc	ations <u>F</u> eatures	<u>T</u> ools <u>H</u> elp		
Port Number	Extension	Hunt Group	PBX Template	Default Mailbox	Location
Voice Port Number 1	9000		SIP	991	Default Location
🛣 Voice Port Number 2	9000		SIP	991	Default Location
🕱 Voice Port Number 3	9000		SIP	991	Default Location
🛣 Voice Port Number 4	9000		SIP	991	Default Location
Ready					NUM //

Double click Voice Port Number 1.

Voice Port Number 1	<b>-x</b>
Port Configuration   SIP Configuration   SIP	
PBX Port Integration         Extension number       9000         Hunt group extension is a member of         PBX integration file       SIP         ✓       Details	
Port Owner / Location Information	
External IVR filename	
Assigned location: Default Location   Default Successful Default Location	
Application: Default 💌	
Owner mailbox number: 991	
OK Cancel Apply	Help

Enter the trunk access code configured in the CISCO for each of your lines. In this example it's 9000.

#### Click **SIP Configuration** tab.

Voice Port Number	1			×
Port Configuration	SIP Configuration   SIP			
Display name User agent Local Port	DuVoice 5060	Account name Password Realm	Enable Register	
	0	K Cancel	Apply He	elp

Leave the default settings as you see here.

#### Click **SIP** tab.

Voice Port Number 1		×
Port Configuration S	IP Configuration SIP	
Location	Default Location	
Registrar address	192.168.11.35 Port 5060	
Local address	192 . 168 . 11 . 25	
Dialogic IP Address	192 . 168 . 11 . 25	
Register expire time	3600 seconds	
SIP Trunk		
	OK Cancel Apply Help	

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- 1. Enter the IP address of the CISCO **Registrar address**.
- Confirm the IP address located in the Local Address field is that of the network connection currently being used on the system. If the system has multiple network connections this might be different.
- 3. Check SIP Trunk.

Click **Ok** to save changes.

## **Hospitality Configuration**

#### Connectors

From System Configuration select Features | Connectors | Cisco

Connectors				- • •
Connectors System Details Cisco Inventory Server IP Office LDAP PMS Pass-through Room Status Server ShoreTel	Cisco Location IP address User Name Password	Default Location         ▼           192 . 168 . 11 . 35            duvoice	Enabled	
SIEMENS SIP Univerge / Sphere	TCP/IP Port Retries Interval (seconds)	80 3 ÷ 90 ÷		
			OK Cance	Apply

- 1. Check the Enabled box.
- 2. Enter the IP address of the Cisco PBX.
- 3. Enter the user name chosen for the CME interface.
- 4. Enter the password chosen for the CME interface.

Click **Ok** to save changes.

#### Room Changes

From System Configuration select Features | Hospitality | Phone Control

Hospitality Configuration				- • 💌
PMS 1 General Haid Codes Haid Codes Hone Control	PBX Type: Cisco Auto-set phone state on Check-in: Checkin Checkout	Call Tyr En Dis	accouting pe: -none abled: -no change sabled: -no change avi-specific settings tdial prefix: 470	
	User group restrictions / call To edit an entry, left-click of Display Text	n it. For all other actions, right PBX Value	nt-click any row to display	a menu.
	Checkin Checkout Active PMS: DuVoice Ac	lvanced		
			ОК	Cancel Apply

- 1. Choose Cisco from the PBX dropdown.
- 2. Fill in the User group restrictions / call restriction values used on the PBX. The pbx value must match an existing COR list configured on the PBX. The Display text is a user friendly display used in InnDesk.