# Mitel Revolution

# Configuration Guide for Mitel MiVoice Connect

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#### Mitel Revolution Configuration Guide for Mitel MiVoice Connect

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## Introduction

The Mitel Revolution interface provides a way to centrally manage creating and sending notifications. This interface can be used to send emergency and non-emergency notifications such as Live or Stored Audio Notifications, Weather Alerts, AMBER Alerts, IPAWS Alerts, and Text Messages to supported devices.

Notifications can be sent to endpoints such as Mitel XML and MGCP IP Phones; iOS and Android smartphones; Instant Messaging clients, SMS clients, and Mitel Revolution Desktop Notification Client; Paging Relay; Legacy Paging and Analog Systems; IP Speakers; Clocks; Message Boards; Social Media accounts; and more. Visit us on the web at <u>Mitel Revolution Web Help</u> to learn more about Mitel Revolution product.

Users can quickly send notifications and get real-time status and view scheduled notifications and a list of recently sent notifications from their dashboard. Users can also view sent notification details to see which endpoints received notifications. They can manage notifications from a single location, viewing all notifications, endpoints assigned, and the type of notification.

## About this Guide

This document describes the configuration of Mitel Revolution for Mitel MiVoice Connect.

## Emergency Call Notifications(USAOnly)

For customers in the USA utilizing a next-generation 911 solution (NG911) for emergency call routing purposes, the NG911 vendor should be considered as the primary source for Kari's Law local alerting, and Revolution notifications of 911 calls should be considered an ancillary alert of the event, with the activation of 911-related Mitel Revolution notifications being triggered by the NG911 vendor and not the PBX.

If the customer is not using a NG911 vendor for emergency calls then Mitel Revolution can serve as the primary notifier and mechanism for enabling local alerts associated with Kari's Law.

### **Documentation**

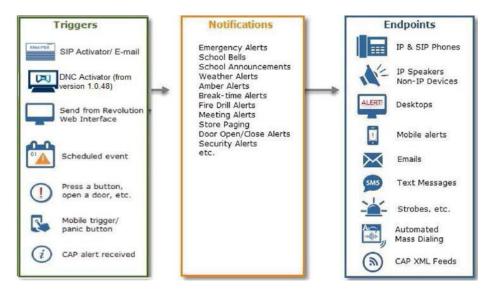
- Mitel MiVoice Connect Planning and Installation Guide: The Mitel MiVoice Connect Planning and Installation Guide describes how to plan and install a MiVoice Connect system. The Installation Guide can be downloaded from Mitel <u>MiVoice Connect Planning and Installation Guide</u>.
- Mitel MiVoice Connect System Administration Guide: The Mitel MiVoice Connect System Administration Guide explains how to use Connect Director to configure, administer, and maintain all features of the Mitel MiVoice Connect system. The Mitel MiVoice Connect System Administration Guide can be downloaded from <u>Mitel MiVoice Connect System Administration Guide</u>.
- Mitel Revolution webhelp: The Mitel Revolution webhelp contains the information required to install Mitel Revolution, initial setup, feature configuration, maintenance and troubleshooting, end-user tasks, system monitoring, and upgrade related details. You can access the webhelp at <u>Mitel</u> <u>Revolution Web Help</u>.

## Overview

The Mitel Revolution interface provides a Dashboard for quick access to frequently used notifications, status of send notifications, and scheduled notifications. The Dashboard can be configured for each user, Users having the required permission can maintain their dashboard themselves. Access to configuring the Revolution modules is denied to all user roles except the administrator.

X	Mitel		Revo	olution		Mon Apr 15 02:15:47 AM PDT ()
G	Dashboard		9			0
<b></b>	Notifications	•	QUICK NOTIFICATIONS     Send a quick one-off notification	LAST SENT NOT	IFICATION 1 details	
5	Scheduler		view all notifications		view all sent notific	ations
••	Configuration	•	SCHEDULED NOTIFICATIONS Summary of this week's upcoming events	RECENTLY SEN	NOTIFICATIONS	
6	System Status		view all events			
	Users Contacts & Sites	•		Sent Date	Name Se view all sent notific	ations
	Logging					
٥	Global Settings					
1	Profile					

### Mitel Revolution Overview



Creating notifications involve the following three main steps:

- Assigning the triggers for sending notifications.
- Creating the content (image, audio, or text) to be sent.
- Assigning the endpoints that receive the notifications.

For more information about creating notifications on the Mitel Revolution interface, see Creating Notifications.

# MiVoice Connect Director Configuration

This section outlines the steps to configure a Mitel MiVoice Connect Director for Mitel Revolution.

The user must configure the general MiVoice Connect settings. These configuration settings include the following:

- Creating generic SIP profiles and SIP servers See Configuring SIP Users
- Setting switches See Creating SIP Trunks

## **Configuring SIP Users**

This section describes how to create a SIP profile and a SIP server in the MiVoice Connect Director.

**Creating SIP Profiles** 

Perform the following steps to create a new SIP profile:

- 1. Click Administration > Appliances/Servers > Integrated Servers > SIP Profiles.
- 2. Click New to create a new SIP Profile.
- 3. In the settings tab, enter the values for the following fields:

Field	Value
Name	Enter a descriptive <b>Name</b> for the profile.
User agent	Used to identify devices covered by this profile. This field is not used for SIP servers.
Priority	Leave at default of 100.
Enable	Select the check box to make the profile available for use.
<ul> <li>Svotom poromotoro</li> </ul>	List of dovice observatoriation and their default acttings (Lise defaults)

a. System parameters – List of device characteristics and their default settings (Use defaults).

- b. **Custom parameters** (Optional) Additional device settings or overrides for default settings listed in System parameters field (None necessary).
- 4. Click Save.

Mitel Connect Direct	ctor						⑦ Help   옴 adm	nin <del>-</del>
Search	SIP Profiles			N	IEW COPY	DELET	E BULK DELETE	
🗡 О 🗽 🏼 🖾 🖻	NAME	¢	ENABLED	÷ Us	SER AGENT	\$	PRIORITY	\$
ADMINISTRATION +T	Microsoft Exchange     Mitel Revolution SIP Profi		2 2	.*	el Revolution Agent		50 100	
<ul> <li>Users</li> <li>Trunks</li> <li>Telephones</li> <li>Appliances/Servers         <ul> <li>Platform Equipment</li> <li>Spare Equipment</li> <li>Integrated Servers</li> <li>SIP Servers</li> <li>SIP Profiles</li> <li>Options</li> </ul> </li> </ul>	Mitel Revolution SIP Pro	ofile	lia ≪ Page 1 of 1		Rows / page: 50 V	/E] [	View 1	► 2 of 2
▷ Features	GENERAL							
⊳ System	Name:	1	Aitel Revolution SIP Profile					
	User agent:	1	Mitel Revolution Agent		-			- 1
	Priority:	[	100		=			- 1
	Enable							
	System parameters:	J F J E U U C C J	acceptMWI=notify Accept302=sip HoldSupport=no HoldSupport=diversion EnableSymmetricDtmf=yes JSeSipProxyOut=yes JAEMedialessPort=8600 AllowedCodecs=PCMU/8000 OptionsPing=1					

#### **Creating SIP Servers**

Perform the following steps to create a new SIP server:

#### 1. Click Administration > Appliances/Servers > Integrated Servers > SIP Servers.

- 2. Click New.
- 3. Enter the values for the following fields:
  - a. Name Enter a descriptive Name for the server.
  - b. Site From the Site drop-down list, select an appropriate site location.
  - c. **Protocol** From the **Protocol** drop-down list, select TCP. (We recommend TCP, but UDP is also acceptable.)
  - d. Host (name / address / domain) Enter Mitel Revolution server IP address.
  - e. Override default port Leave the field blank.
  - f. Allow external voice mail for Extension-Only user By default, the field is disabled. Do not change the selection.
  - g. Allow fax redirect to this server By default, the field is disabled. Do not change the selection.
  - h. **Extension** System automatically assigns next available number. You can enter a different extension.

- i. **Assigned user group** Select appropriate group that has access to the necessary trunks. For example, Executives.
- j. SIP Profile Select the new SIP profile you created.
- k. Digest Authentication By default, None is selected. Do not change the selection.
- I. Username Leave the field blank.
- m. **Password** Leave the field blank.

🕅 Mitel Connect Direc	ctor			⑦ Help ∣ & admin <del>•</del>
Search	SIP Servers		NEW COPY DELETE	BULK DELETE
Administration	NAME	SITE      HOST	ULT NAME \$	VOICE MAIL FAX \$
<ul> <li>Users</li> <li>Trunks</li> <li>Telephones</li> <li>Appliances/Servers</li> <li>Platform Equipment</li> <li>Spare Equipment</li> <li>Integrated Servers</li> <li>SIP Servers</li> <li>SIP Profiles</li> <li>Options</li> <li>Features</li> <li>System</li> </ul>	Mitel Revolu 200 Mitel Revolution GENERAL	Site1 10.211.20.111	Mitel Revolu TCP	View 1 - 1 of 1
	Name: Site: Protocol: Host (name / address / domain): Override default port: Allow external voice mail for E: Allow fax redirect to this server Extension: Assigned user group: SIP profile: Digest authentication: Username: Password:		(6 - 26 characters)	S

## **Creating SIP Trunks**

What you need to know

- SIP Trunks are utilized to call analog paging systems.
- Trunks cannot be used for inter-sitecalls.
- Each site must have its own Trunk Group configured with at least one SIP Trunk, or as many trunks as the desired amount of simultaneous calls to the Mitel Revolution Server. For example: If there are two trunks in a trunk groupfor a specific site, then two groups can be called at the same time.

#### Notes:

- Allocating SIP Trunk ports on Mitel switches also requires valid Mitel SIP Trunk licenses. Contact your Mitel representative for details.
- Mitel trunk groups only support Static IP Addresses for IndividualTrunks.

#### **Create Trunk Groups**

Perform the following steps to create a SIP trunk group:

- 1. Click Administration > Trunks > Trunk Groups > Trunk Groups.
- 2. Click New.

Mitel Connect Direct	COY 🛛 🕘 Connections   🌒 Trunk Groups   🕘 Bandwidth   🌒 Voice Quality   🛕 Appliances   🌑 Servers	⑦ Help   🛆 admin▼
Search	Trunk Groups	NEW   COPY   DELETE
🔑 🗘 🗽 🏢 🔤 🖻	NAME	♦ OSE

- 3. In the **GENERAL** tab, enter the values for the following fields:
  - a. Name Enter a descriptive Name for the trunk. (Our example uses Syn-Apps Trunk Group.)
  - b. Site From the Site drop-down list, select an appropriatesite location.
  - c. Trunk type From the Protocol drop-down list, select SIP.
  - d. Language From the drop-down list, select the appropriate language.
  - e. Enable SIP info for G.711 DTMF Signaling Select the check box to enable this option.
  - f. Profile From the drop-down list, select Default Tie Trunk.
  - g. Digest Authentication By default, None is selected. Do not change the selection.
  - h. Username Leave the field blank.
  - *i.* **Password** Leave the field blank.

Revolution Trunk Group		(	SAVE RESET CANCEL
GENERAL INBOUND	OUTBOUND		
Name:	Revolution Trunk Group		
Site:	Headquarters <b>v</b>		
Trunk type:	SIP V		
Language:	English(US) •		
Enable SIP info for G.711 DTMF	signaling		
Profile:	Default Tie Trunk		
Digest authentication:	-None-		
Username:			
Password:	[	(6 - 26 characters)	
	[]		
Note:			

- 4. In the INBOUND tab, enter the values for the following fields:
  - *a.* **Number of digits from CO** Enter a number that matches your system extension length. (Mitel Revolution does not use this setting.)
  - b. **DNIS** By default, the field is disabled. Do not change the selection.
  - c. **DID** By default, the field is disabled. Do not change the selection.
  - *d.* **Extension** Select the check box to enable this option. Select **Translation Table** check box and keep default of None.
  - e. Tandem trunking If your Mitel Revolution license includes SIP Notifier, select the check box to enable tunking; otherwise leave disabled.
  - f. User group Select group that contains analog paging system lines, if applicable.
  - g. Prepend dial in prefix Leave the field blank.
  - h. Destination User the default value or select one of your choice.

Revolution Trunk Group		SAVE RESET CANCEL
GENERAL Ø INBOUND	OUTBOUND	
Number of digits from CO:	2 🖉	
DNIS Edit DNIS		
DID Edit DID Range		
Extension		
Translation table:	<none> ▼</none>	
Prepend dial in prefix:		
Use site extension prefix		
Tandem trunking		
User group:	Executives •	
Prepend dial in prefix:		
Destination:	700 : Default	

- 5. In the OUTBOUND tab, enter the values for the following fields:
  - a. Outbound Select the check box to enable outbound feature.
  - b. Network call routing Specify appropriate access code and local area code.
  - *c.* **Trunk services** Access to the Mitel Revolution server is via Off System Extensions (OSE). Therefore, most trunk services can be disabledexcept:
    - i. Local

- ii. Caller ID not blocked by default
- iii. Enable caller ID name

itel Revolution Trunk Grou	qu	SAVE RESET CANCEL
GENERAL INBOUNE	OUTBOUND	
Outgoing:		
Network call routing:		
Access code:	9	
Local area code:	91	must be between 2 and 4 digits
Additional local area codes: Add		
Nearby area codes: Add		
Billing telephone number:		(e.g. +91 11-2419-8000)
Trunk services:		
Cocal		
Long distance		
National mobile		
International		
Enable original caller information	on	
Caller ID not blocked by defaul	It	
Enable caller ID name (Please	confirm with the carrier(s) or the serv	rice provider(s) on how the end-to-end caller name is delivered)
When Site Name is used for the Caller ID, overwrite it with:	Mitel	
Emergency		
Trunk digit manipulation:		
Dial local numbers in national f	form	
Dial in E.164 format		
Prepend dial out prefix:		
Translation table:	<none>    Edit OSE</none>	

6. Configure OSE:

Emergency	
Trunk digit manipulation:	
Dial local numbers in natio	nal form
Dial in E.164 format	
Prepend dial out prefix:	
Translation table:	<none>    Edit OSE</none>

OSE defines the SIP extension range that can be configured as SIP lines in Mitel Revolution SIP Activator. This can be any extension that is currently not used on the Mitel system.

a. Click Save before proceeding to set OSE.

b. Click the EditOSE link in the Trunk digit manipulation section. Click New.



*c.* From the **Trunk Group** drop-down list, select the trunk group you created and define an **extension** range within your Mitel PBX extensions.

GENERAL		SAVE RESET CANCEL
Trunk group:	Mitel Revolution Trunk Group	
From:	201	0
То:	210	Ø

d. Click Save.

Create Individual SIP Trunks

Perform the following steps to create an individual SIP trunk:

- 1. Click Administration > Trunks > Trunks.
- 2. Click New.

🕅 Mitel Conr	nect	Direc	tor	Conne	ections   (	🔵 Trunk Gra	oups   🔵	Bandwidth	🔵 Voic	e Quality	🛕 Applia	nces   🔵	Servers		Ċ	Help   🐣 ac
Search			Tru	unks								NEW	COPY	DELETE	в	ULK DELETE
🥕 🌣 🛄 🏢		Ð		NAME	\$	GROUP	\$	TYPE	\$	SITE		SWITCH	\$	PORT/CHANNEL	\$	IP/FQDN
ADMINISTRATION		+*≣														
Users																
₄ Trunks																
Trunks																

- 3. Enter values for the following fields:
  - a. Site From the drop-down list, select the appropriate Site.
  - b. Trunk group From the drop-down list, select the appropriate group.
  - c. Name Enter a descriptive Name for the trunk.
  - d. Switch From the drop-down list, select a Switch that is configured for this site.
  - e. IP address or FQDN Enter the Mitel Revolution server IP address.

Syn-apps (1)		SAVE RESET CANCEL
Site:	Headquarters 🔻	
Trunk group:	Revolution Trunk Group (SIP) 🔻	
Name:	Syn-apps (1)	
Switch:	SG90_HQ V	
IP address or FQDN:	10.211.46.72	

## **Configuring Switch Settings**

Perform the following steps to configure a switch:

1. Click Administration > Appliances/Servers > Platform Equipment.

Search		Platform Equipm	ent						NEW	COPY	DELETE BUL	K DELETE
	•	NAME	DESCRIPTION	<b>N</b> \$	SITES	SERVER	\$	DATABASE SERVER	TYPE \$	IP ADDRESS	SECONDARY ADDRESS \$	MAC ADDRESS
DMINISTRATION	+10	collab			Site1	Headquarters	Ŷ	Headquarters	vCollab	10.211.18.68		00-50-56-93-F7-AF
Users	1	Headquarters	SoftSwitch		Headquarters	Headquarters		Headquarters	WinHQ	10.211.18.55		
Trunks		site	SoftSwitch		Site1	Headquarters			vPhone	10.211.18.69		00-50-56-93-06-19
Telephones		Site1	Softswitch		Site1	Site1		Headquarters	WinDVS	10.211.18.57		
Appliances/Servers		Site2	Site2		Site1	Site2		Headquarters	LinuxDVS	10.211.18.66		00-50-56-93-EB-3A

- 2. Click the Name of the switch to configure.
- 3. Define one of the **PortType** settings from the available ports to **100 SIP Proxy**.

G90: SG90_HQ - 10.211.45.70 GENERAL SWITCH					SAV	/E RESE	CANCEL
IP phone + SIP trunks = Total							
15 10 25 of 30 (100 S	P proxy ports)						
Enable Jack based Music on hold							
Jack based Music on hold gain:	0 dB (-49 to	13)					
Use analog extension port as DID trunks							
Port Port Type	Trunk Group	Description	Jack Number	Tx Gain (dB)	Rx Gain (dB)	Location	
1 100 SIP Proxy V							FILL DOWN
Trunk	P01			0	0		10
2 Available	P02			0	0		
3 Conference	P03			0	0		
4 5 SIP Trunks	P04			0	0		
5 SIP Trunk with Media Proxy	P05			0	0		

**4.** Select the desired number of SIP trunks from the ports available and click Save. Each port designated as a SIP trunk port type supports 5 individual SIP trunks.

-	0. 5000 10. 40.044 45 70								CANCEL
103	0: SG90_HQ - 10.211.45.70						SA	VE RESET	
0	GENERAL SWITCH								
IP p	hone + SIP trunks = Total								
	15 10 25 of 30 (*	100 SIP proxy ports)							
	Enable Jack based Music on hold								
	Jack based Music on hold gain: 0 dB (-49 to 13)								
	Use analog extension port as DID tru	unks							
Port	Port Type	Trunk Group	Description		Jack Number	Tx Gain (dB)	Rx Gain (dB)	Location	
1	5 IP Phones •	Analog tru	ink						FILL DOWN
Ľ.,	ø	A		- L		0	0		
2	100 SIP Proxy								
[ <sup>-</sup>	Ø	P02				0	0		
3	5 SIP Trunks	<b>D</b> 00							
	SP	P03				0	0		
4	5 IP Phones	P04				0	0		
5	Trunk	P05				0	0		
6	Available 5 IP Phones	P06				0	0		
	Conference								
7	5 SIP Trunks	P07				0	0		
-	100 SIP Proxy	(		1 (	1	-	· - ]	1	

#### Notes:

Virtual phone switch has built-in SIP Proxy ports.

## Configuring Emergency Numbers to Monitor

#### Note:

If the customer site is configured to use an NG911 vendor for emergency call routing, the Mitel Revolution activator for emergency call notification must be the NG911 vendor service (for example, through an inbound email notification from the NG911 provider to Mitel Revolution, or through an API-based integration between the NG911 vendor and Mitel Revolution), and not a 911 activation from the PBX.

Perform the following steps to configure the numbers you want to monitor:

- 1. Click Administration > System > Sites [select your site] > General.
- 2. Add the numbers you want to monitor to the Emergency Number List. 911 is included by default in the Emergency number list section.
- **3.** Use default values for the other fields.

The number is configured to the Mitel Revolution Notifier page during the next phone refresh, which occurs every 15 minutes, or you can refresh the data for the Mitel notifier from the system status. This creates a new trigger that you can now add to notifications. Create notification and select trigger corresponding to 911. Any time the number being monitored is dialed; the notification is triggered.

For more details about configuring emergency number and triggering notification in the Mitel Revolution interface, see Creating Notifications.

#### **Configuring Jack Number**

Jack number can be configured either in Users page or in IP address Map page.

- Perform the following steps to configure the Jack number from Users page:
  - 1. Go to Administration > Users > Users.
  - 2. Click a username.
  - 3. In the **General**tab, enter the **Jack#** such as building number, room number etc.
  - 4. Click Save.
- Perform the following steps to configure the Jack number from IP address Map page:
  - 1. Go to Administration > System > Additional Parameters.
  - 2. Enable **Use Jack number** from IP Address Map.
  - 3. Go to Administration > Telephones > IP Address Map.
  - 4. Click **New** and select a site.
  - 5. Enter the low and high IP address and then provide the Jack number.
  - 6. Click Save.

## **Enabling Phone API for User Accounts**

For an IP Phone to receive notifications, the associated user account must have the Allow Phone API checkbox enabled. If this setting is not enabled, the IP phone will not be able to receive any notifications.

- 1. Click Administration > Users > Users.
- 2. Click on a username.
- 3. In the Telephony tab, select the Enable phone API (PAPI) check box.

(					
GENERAL TELEPHONY	VOICE MAIL	ROUTING	MEMBERSHIP	APPLICATIONS	DNIS
Enable handsfree mode	uciouin neauser				
020					
Enable call waiting tone					
Trunk access code: 9 🔻	)				
Mailbox for recorded calls:					
	And the second second second				
Fax support:	User - Redirect	•			
Enable video calls	Standard 🔻				
Enable telephony presence					
Enable shared call appearances					
Enable use of soft phone					
Enable phone API (PAPI)					

4. Click Save.

## **Authorized Server**

Trusted server entries must be entered in the custom text file for each IP phone model.

IP400 series phones custom files are in C:\Inetpub\ftproot\phone	econfig.

Mitel IPPhones	CustomFile Name
485g	custom_IP485g.txt
480g	custom_IP480g.txt
480	custom_IP480.txt
420	custom_IP420.txt

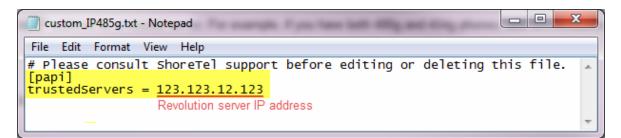
IP655 and IP5xx series phones series custom files are in C:\Inetpub\ftproot.

Mitel IP Phones	CustomFile Name
655	swecustom.txt
565 / 565g	s6ccustom.txt
560g	s6gcustom.txt
560	s6custom.txt

#### Rules:

- Edit each custom text file for your phones to add the Mitel Revolution server IP address as a trusted server. For example, if you have both 480g and 485g phones, add Mitel Revolution as a trusted server to both custom\_IP480g.txt and custom\_IP485g.txt.
- For IP400 series phones, it is <u>not</u> recommended to add the trusted server to the global custom.txt file. You should add the trusted server to each phone model's custom file.
- Place the entry on a separate line.

For IP400 series phones:



Note: Use uppercase S in servers - trustedServers.

For IP655 and IP5xx series phones:

🧾 s6ccustom.txt - Notepad	x
File Edit Format View Help	
<pre># Please consult ShoreTel support before editing or deleting this file. Trusted Servers 123.123.12.123 Revolution server IP address</pre>	*
	-

## Configuring 6900IP phones

To configure 6900 series IP phones with Mitel Revolution, add the following configuration parameters in the IP phone configuration file (*startup.cfg located C:\Inetpub\ftproot\phoneconfig*) which registers the phones on the Mitel Revolution server:

xml application post list: <<revolution server IP>>

action uri poll:http://<<revolution server IP>>/MitelRegistrar/?dn=\$\$SIPUSERNAME\$\$&ip=\$\$LOCALIP\$\$

action uri poll interval: 60

where,

- *xml application post list* is the HTTP server that is pushing XML applications to the IP phones and revolution server IP is the IP address of the Mitel Revolution server.
- action uri poll is the URI to be called every action uri poll interval seconds
- *action uri poll interval* is the interval, in seconds, between calls from the phone to the *action uri poll*. The interval between 60 and 300 seconds depending on how frequently you want the phone to register.

Note:

- Ensure to reboot the phone after the parameters are included in the configuration file.
- The IP phones display the "Cannot display" error message when the Mitel Revolution server is not reachable.

# **Mitel Revolution Configuration**

This section describes how to configure Mitel Revolution with the MiVoice Connect Director.

The communication with Mitel IP phones is done based on the following settings:

- Adding the Mitel Revolution server IP address as a trusted server in each phone model custom file
- Enabling Allow Phone API for users in Mitel MiVoice Connect.

If you are using Mitel Revolution SIP Activator, so you can trigger notifications by dialing an extension number, you also need to setup a SIP trunk in your Mitel communications manager.

Note: SIP Activator is required to trigger live broadcast notifications.

Refer to the <u>Revolution WebHelp</u> for comprehensive details on configuring Mitel and Revolution functionality. The following sections are setup requirements specific to Mitel Revolution communicating with a Mitel system.

## Installation and Configuration

Refer to the following topics in the Mitel Revolution WebHelp to install Mitel Revolution on Windows Server 2008, 2012/2012r2, or 2016 and configure it with your Mitel system:

- System Requirements
- Installation
- Configure Your Mitel Phone System
- <u>MitelSIPTrunk</u>

## **Network Requirements**

Firewall Requirements/Port Usage

Port	Description
MitelRevolution to MitelConnect Director 5060 3306,4308	Protocol Description UDP SIP TCP, MySQL – 3306 (Mitelv9), 4308 (Mitelv10+)
20480 - 32767	RTP,UDP
2748	TCP
MitelRevolution Server to IP Phones IP Phones to Mitel Revolution Server	
80	TCP,HTTP
20480 - 32767	RTP, UDP – unicast and multicast
MitelRevolution to IP Speakersand PagingRelays	
80	TCP,HTTP
6789	UDP, MitelRevolutionIP device protocol
20480 - 32767	RTP, UDP – unicast and multicast

#### **Multicast Requirements**

If users choose to use multicast, which is strongly suggested with over 100 endpoints, then multicast must be enabled on the network. All interfaces between the Mitel Revolution server and the destination endpoints need to have IP PIM enabled. The switches should have IGMP/CGMP enabled.

If the entire network cannot be multicast enabled or enabling multicast would require a large or recurring investment, the Mitel Revolution Paging Relay should be deployed at the remote site. This allows Mitel Revolution to send a single unicast stream over the WAN connection. The Paging Relay converts the unicast stream into a multicast stream at the remote site. See the Mitel Revolution WebHelp or contact Mitel Revolution Sales for more information. Refer to your network support or your telephony partner for the best approach for implementing multicast on your network.

## Configuring the MiVoice Connect Director

Perform the following steps to configure the MiVoice Connect Director in Mitel Revolution:

- 1. Go to Configuration > PhoneSystems > Mitel.
- 2. Click New Connect Communications Manager.
- 3. Enter a descriptive Name to the MiVoice connect server.
- 4. Enter the MiVoice Connect Server address in the IP Address field.
- 5. Enter the Mitel server port or username/password in the **Advanced Settings** section if you are not using the default Mitel server port and credentials.

Note: By default, the Mitel port is set as 4308.

Do the following to change the advanced settings:

- a. Click ShowAdvanced Settings.
- b. Change the Port, Username, or Password.
- 6. Click Save.

D	Mitel		Revolution
G	Dashboard	COMMUNICATIONS MANAGER GENERAL SE	TTINGS
*	Notifications	Name * MiVoice Connect 44.50	
31	Scheduler	IP Address * 10.211.44.50	
(ii)	Configuration	A hostname or FQDN may also be used	
٦	System Status	Advanced Settings Warning: Editing advanced settings may make Revolution sto If you are unsure of your changes please copy down the setti	p functioning properly. 195 before editing.
1	Users Contacts & Sites	Port * 4308	
Ξ	Logging	Username * st_configread	
•	Global Settings	Password *	
1	Profile		
•	Logout	Hide advanced settings CANCEL SAVE	

## **SIP** Activator Configuration

This section describes the Mitel Revolution configurations for MiVoice Connect Director.

**Creating SIP Lines** 

Perform the following steps to create a new SIP line:

- 1. Go to Configuration > Phone Systems > SIP.
- 2. Click NEW and select NEW SIP LINE.
- 3. Enter a descriptive Name for the SIP line.
- 4. In the Extension field, enter one of the SIP line number you defined in MiVoice Connect Director.
- 5. (Optional) Enter a numeric security code of your choosing. Security codes contain at least 3 digits. Leave the field with the default value 0 if you do not want to have a security code. Security codes can be repeated.
- 6. (Optional) Enter Activator Text Title and Activator Text Body text that can be used with, or in place of, a notification title and body text.
- 7. Click Save.

🕅 Mitel		Revolution
Dashboard	SIP LINE GENERAL SETTINGS	
Notifications	Name * SIP Trigger 1	
Scheduler	Available in All Sites	
Configuration	Extension * 850	
System Status	If your SIP Trunk requires a prefix, include it in the Extension	
Users Contacts > & Sites	Security Code 0 Enter 0 for no security code	
Logging	Activator Text Title SIP Trigger#1 Title	
Global Settings	Activator Text Body SIP Trigger#1 Text Body	
Profile		
[→ Logout	CANCEL SAVE	

SIP lines entered here can be assigned to notifications as actions that trigger sending the notifications.

SIP ACTIVATOR				EW SIP LIN
st, configure your SIP trunk and define a is here, which are made available to ass mbers on their IP phone.	range of SIP lines in yo ign to notifications to all	ur phone system on ow end users to se	ommunications manager. Then add SIP and those notifications by dialing extension	
ACTIONS SETTINGS				
SIP Lines				
Name Y Line 5100 - Campus A	Extension 5100	Security Code 321	Notification(s) All Sites - All Hands Meeting, DailyAnnouncements	×=
Line 5101 - Campus A	5101	321	Site 1 - Network Outage, Prison Yard Camage	/8
Line 5102 - Campus A	5102	321	Building 102 - Maintenance	10
Line 5103 - Campus A	5103	321	Campus A - Weather Closure, Gen Pop Melee	/8
Line 5104 - Campus A	5104	321	Campus A - Lockdown	10
Line 5105 - Campus A	5105	321	Campus A - Remote Gate Lock	/8
Line 5106 - Campus A	5106	321	Campus C - Fire Drill	/8
Line 5107 - Campus A	5107	321	Code Blue	/8
Line 5108 - Campus A	5108	321		/8
Line 5109 - Camous A	5109	321		18

#### Authenticating the SIP lines

If you configured authentication when you created your SIP trunk in Mitel MiVoice Connect, configure Mitel Revolution with those credentials.

- 1. Go to Configuration > Phone Systems > SIP.
- 2. Click Settings.
- 3. Leave Inbound Digest Realm field blank. (Mitel authenticates at the trunk level. It doesn't use realms.)
- 4. In the Inbound Username field, enter the Mitel MiVoice Connect username.
- 5. In the Inbound Password field, enter the Mitel MiVoice Connect password.
- 6. Enter specific values in the following fields:

Field	Value
Pin Timeout Seconds	This is the length of time you want to allow a user to enter a security code before the system times out and ends the call. When the time limit is met, an audio message is played letting the user know that the system has timed out and the call will end.
STUN Server and Outbound Proxy Servers	Leave these fields blank. They do not apply to Mitel system setup.
SIP Port	You only need to update this field if your Mitel server is not using the default port.
Trusted Servers	Leave this field blank to accept connections from any IP. Your company security policies dictate whether you need to list specific servers.

Transport Layer Security	Your company security policies dictate whether you need to enable TLS for transferring data over your network. (TLS is the successor to SSL.)
	When Enable TLS is selected, Mitel Revolution checks the servers, certificate store for a certificate with the friendly name of SIPACTIVATOR. This can be a CA-signed certificate that your company has created and installed. If the friendly name is SIPACTIVATOR, it will be used. If Mitel Revolution cannot find a certification with the friendly name of SIPACTIVATOR, a self-signed certificate is created. You can replace this certificate, if necessary. Just make sure its friendly name is SIPACTIVATOR. The certificate is used to encrypt data from Mitel Revolution going across your network.

7. Select the Disable Reinvites checkbox.

🕅 Mitel	Revolution
Dashboard	► ACTIVATORS
Notifications	CAP IP Device Mitel Mobile & 3rd Party Polycom SIP SNMP Status
Scheduler	
Configuration	SIP First, configure your SIP trunk. Then configure SIP Activator. Next, in SIP Activator create SIP lines (within the range defined in your SIP trunk) and assign them as triggers to send notifications by dialing the line number. In
System Status	Notifier, set up audio notifications through a SIP call to any SIP-complications by classing the time number, in Notifier, set up audio notifications through a SIP call to any SIP-compliant IP devices not running the Syn-Apps i Device API such as analog phones, external phone numbers, etc
Users Contacts > & Sites	ACTIONS SETTINGS
Logging	STUN Server
Global Settings	Outbound Proxy Servers
	Inbound Digest Realm
	Inbound Username
	Inbound Password
	Clients (e.g. PBX systems) will be prompted for the above credentials when connecting, if blank, auth will not be required.
	Trusted Servers
	Only accept requests from these IPs. Leave empty to accept connections from any IP.
	Disable Reinvites Check this if using a cloud PBX or other system that does not support REINVITEs
	Show advanced settings
	SAVE

8. Click Save.

## Creating Notifications

To create and send notifications, read through the Mitel Revolution <u>WebHelp</u> for an overview of how the system works and how to configure other features. The Notification Overview topic provides a description of the different types of notifications that can be created.

On dialing a SIP Line number, the Mitel Revolution interface sends notification to contacts in the **Endpoint and ContactSelection** section.

Perform the following steps to send a notification from the Mitel Revolution interface:

- 1. Create the content (audio, image, text) to be sent.
- 2. Assign endpoint/s to receive the notification.
- 3. Click Save and Send.

Perform the following steps to create a Stored Audio notification:

- 1. Go to Notifications> Manage.
- 2. Click NEW NOTIFICATION.
- 3. Enter the following **GENERAL** Settings:
  - a. Provide a descriptive Notification Name.
  - b. (Optional) From the Dashboard Icon drop-down list, select an image to display with the notification.
  - c. Select a Priority level for the notification.
  - d. From the Notification Type drop-down list, select Stored Audio.

GENERAL Notification level	settings		~	
Notification Name * Fire Drill		Notification Type Stored Audio	•	
Activation Type Iteration	• 3	Repeat Interval (seconds) 60		
Priority		•	- 5	
Dashboard Icon fire.png		QUICK NOTIFICATIONS Send a quick one off notification		0
0		Fire Drill Fire Doll		1
		view all notifi	cations	

- 4. Click the **TRIGGERS** settings and enter the following values:
  - a. From the Activator drop-down list, select SIP.
  - b. You can create a new trigger or select an existing trigger.

Follow the steps to create a new trigger:

- From the **Trigger** drop-down list, select **New Trigger**.
- Enter a descriptive Name for the SIP line.
- Enter the Extension number.
- Enter the remaining informations if required.
- Click **SAVE** to save the changes.

Follow the steps to select an existing trigger:

- From the **Trigger** drop-down list, select the trigger that you want.
- From the Select Trigger Behavior drop-down list, select Activate.
- Click ADD.
- 5. Click the Message Details settings and enter the following values:
  - a. Set **Caller ID** to Show.
  - b. Select an **Audio tone** or **prerecorded message** from the **Stored Audio** drop- down list. Repeat the process to select additional audio files, if necessary. Audios play in the order listed. Drag and drop files to rearrange the order.
  - c. Set the **Volume** for the notification. This volume overrides the volume set on the endpoint receiving the notification, such as a phone or speaker.
  - d. (Optional) Select an imagefrom the **Stored Images** drop-down list to send with the notification. You can repeat this step to select an additional image, if desired.
  - e. Choose Font Color for the notification fonts.
  - f. Enter a **Title** for the notification.
  - g. Enter the content of your notification in the Body.
  - h. Leave 'Clear notification...'unchecked. (Checking 'Clear notification...' removes the message content from a phone endpoint display once the selected audio files finish playing).

Caller ID Bhow	0 *				
Erlact Audio,					
FV General-Test.mp3	Θx				
Volume	7	Use device default			
Select image.					
Idea_full.png	×				
	×				
tidea_full.png					
Idea_full.png     Idea_full.png     #2222E7     Devices withing how color support e     default color     Title *			03		
bildea_full.png and cotat acceleration accel			02		
Idea_full.png     Idea_full.png     #2222E7     Devices withing how color support e     default color     Title *			03		
Idea_full.png     Azzzzer     Azzzzer     Azzzzer     Azzzzer     Azzzzer     Azzzzer     Azdu     Azzzer     Adu     Azzzer     Adu     Azzzer     Adu     Azzzer     Adu     Azzzer     Adu     Azzzer     Adu     Azzzer     Azzzer     Azzer     Azzzer     Azzzer     Azzzer     Azzzer     Azzer     Azer     Azzer     Azer					
Idea_tull.png     Idea_tull.png     #2222E7     Devices without font color support e     default color     Title for Notification#1     Endy		Long Set * Long Text for Notification#1			

6. Select Endpoints to receive the notification:

Leave 'Allow users to add endpoints dynamically' at None.

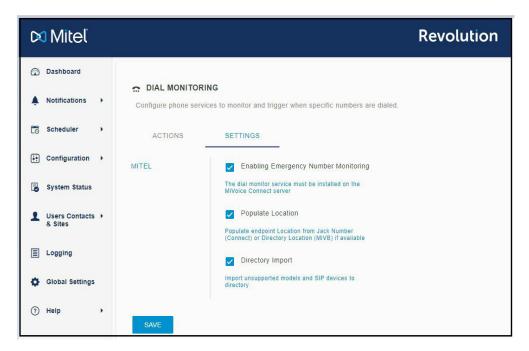
ENDPOINT & CONTACT SELECTION     Devices & Contacts that the notification will be sent to	~		
Allow users to add endpoints dynamically None			
Contact Methods         Check all communication methods to use for selected contacts.         Mobile       Email         Internal         Show:       Endpoints         Contacts       User Tags         System Tags	Unselect	SELECTED ENDPOINTS & CO	NTACTS
S All Sites	33 🕥 🍈	AtlasSound - 192 168 10.68	â
S billy test	9 🕥	AtlasSound - 192.168.11.78	ā
Suilding 101	3 🕥	Building 101	â
Building 102	3 🗿		
Suilding 103	3 🕥	CLOSE SAVE	

7. Click Save.

## **Configuring Emergency Number**

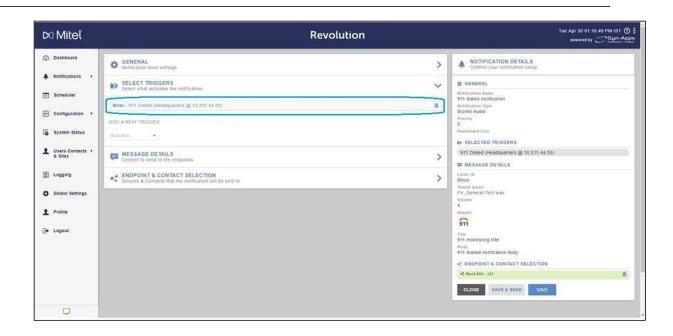
There is no configuration required in the Mitel Revolution interface. The numbers to be monitored are configured in the Mitel communications manager, which is pulled into the Mitel Revolution interface, and displayed in the **Dial Monitor** section. The numbers are available as triggers to assign to notifications. Any time the number being monitored is dialed; the notification is triggered.

- All numbers are initially assigned to All Sites.
- You can edit numbers to change their display name and site assignment.
- You cannot change the number being monitored in Revolution. Changes must be made in your Mitel communications manager.
- To stop monitoring a number, remove it in your Mitel communications manager. On the next Revolution
  phone refresh, the Revolution Mitel Notifier page is updated, and the trigger is automatically removed
  from any notifications it is assigned to.
- To populate the endpoint location from MiVoice Connect, you must enable Populate Location; and to
  import unsupported SIP device models, you must enable Directory Import. To do this, navigate to
  Configuration > Phone Systems > Mitel > Dial Monitoring and select the check boxes associated
  with Populate Location and Directory Import respectively.



#### Note:

If the **Dial Monitor** Service program is not installed, or is not running, on your Mitel communications manager server, notifications cannot be triggered. Emergency numbers configured to monitor in Mitel Connect Direct are still pulled into Mitel Notifier, but without the Dial Monitor Service program installed, Revolution Mitel Notifier does not know when a monitored number is dialed.



#### Disable Using Mitel Call Monitoring

If you do not want to use the call monitoring feature in the Mitel Revolution interface, or your security policies prevent you from installing the **Dial Monitor** Service program on your Mitel server, go to **Configuration** > **Phone Systems** > **Mitel** > **Settings** and uncheck **Enable Emergency Number**. This prevents Mitel Notifier from displaying an error message when there is no link to the Dial Monitor Service. The emergency numbers configured in your Mitel communications manager still display on the Mitel Notifier page, but they are not monitored by the Mitel Revolution interface.

**Triggering Emergency Notification** 

Perform the following steps to create an emergency notification in Mitel Revolution:

- 1. Go to Notifications > Manage.
- 2. Click NEW NOTIFICATION.
- 3. Enter General Setting:
  - a. Provide a descriptive name that's meaningful to your users.
  - b. (Optional) Select an image to display with the notification when it's assigned to the Dashboard.
  - c. Select a Priority level for the notification.
  - d. Select the type from the Notification Type drop-down list.

GENERAL Notification level settings		~
Notification Name * 911 Dialed	Notification Type ⑦ Text And Images	
Activation Type ⑦ Iterations Iteration	Repeat Interval (seco 60	
Priority	0	8
Dashboard Icon ⑦ 911-monitoring.svg X	✓ Available in All Sites	
911		

- 4. Select Triggers.
  - a. Select Mitel from the Activator drop-down list.
  - b. Select the emergency number from the Trigger drop-down list.
- 5. Enter Messagedetails.
  - a. Set Caller ID to Show.
  - b. Select an **audio tone** or **prerecorded message** from the **Stored Audio** drop- down list. Repeat the process to select additional audio files, if necessary. Audios play in the order listed. Drag and drop files to rearrange the order.
  - c. Set the **Volume** for the notification. This volume overrides the volume set on the endpoint receiving the notification, such as a phone or speaker.
  - d. (Optional) Select an imagefrom the Stored Images drop-down list to send with the notification. You can repeat this step to select an additional image, if desired.

- e. Enter the Title and content for Notification.
- f. Select variables from the drop-down list. Click on **Source>ActivatingEndpoint Location**{source.Location}.

Content to send to the endp	oints		
Caller ID Show	? •		
Select Audio			
Air-Raid-Siren.mp3	ω×		
Volume	2	Use device default	
Select Image			
<ul> <li>Select Image</li> <li>911-monitoring.svg</li> </ul>	×		
911-monitoring.svg	×		
911-monitoring.svg Font Color Devices without font color support will			
	use their	Delay before clearing (seconds) 0	
Ill and the second	use their		

- g. Leave 'Clear notification...' unchecked. (Checking 'Clear notification...' removes the message content from a phone endpoint display once the selected audio files finish playing).
- 6. Select Endpoints to receive the notification.

ENDPOINT & CONTACT SELECTION     Devices & Contacts that the notification will be sent to	~		
Allow users to add endpoints dynamically None •			
Contact Methods         Check all communication methods to use for selected contacts.         Mobile       Email         Internal         Show.       Endpoints         Contacts       User Tags         System Tags       Search	Unselect	* SELECTED ENDPOINTS & COL	NTACTS
S All Sites	33 🕥 📩	AtlasSound - 192 168 10.68	â
S billy test	9 💽	AtlasSound - 192.168.11.78	â
Suilding 101	3 🕥	Building 101	ŵ
Building 102	3 🖸		
Suilding 103	3 🕥	CLOSE SAVE	

#### 7. Click Save.

On dialing 911, the Mitel Revolution interface sends the notification and Jack number to the contacts in the **ENDPOINT & CONTACT SELECTION** section.

#### Note:

- The endpoints do not receive the Jack info when 911 is dialed from the soft phone.
- According to Kari's law, Jack number and caller ID are mandatory for 911 notifications.
- The endpoint receives Jack info even when 911 is triggered from the unsupported phone model in Revolution.

# Third-Party Troubleshooting

Basic troubleshooting can be done using the various SA-Announce log files. You can access them from Mitel Revolution > Logging. See the Mitel Revolution WebHelp > Logging topic for more information.

In addition, refer to the Mitel Revolution Web Help > <u>Troubleshooting</u> topics.

## Mitel Revolution Technical Support

Technicians who have completed Mitel Revolution technical training and certification can open tickets with Mitel Technical Support for further assistance with Mitel Revolution.

### Creating tickets for Non-ARID Products

This section describes the procedures to create ticket for a non-ARID product by using IVR and Mitel Web.

Creating an IVR Ticket (Americas Only)

- 1. Call the Mitel Revolution Support team at any of the following phone numbers:
  - 800-722-1301 (option 5 # 8)
  - 613-592-7849 (option 8)
- 2. When prompted to enter an ARID (License ID), press # to listen to the list of non-ARID products.
  - Press 3 for Applications (Mitel Revolution, Mitel Performance Analytics, Mitel Mass Notification, CT Gateway)

**Note:** These menu options may change at any time, based on the support status of the product.

**3.** When prompted, enter the product version number, using the \* key for dots and the # key to submit.

**Note:** To know the version number of your product, log in to TechCentral Tracker to find the list of versions in the drop-down menu.

For example:

If you are using Mitel Revolution R2021.1, to enter this in the IVR you would select "2021\*1#" on your keypad.

Creating a Web Ticket

- 1. Log in to https://www.mitel.com/login > MiAccess (partner Login) > TechCentral Tracker.
- 2. Click Create New Service Request.
- 3. Enter the Service Request Details (Severity, Summary) and Contact Information.
- 4. On the Product Information page, select Select a product.

Service Request Details	Contact Information	Product Information
🔘 Enter a license ID	Select a product	
License ID:		
Product Name: *	Please select an eritr	y 🔫
SW Version: * On-Site Version:	1	P
Platform:	Please select an ent	ny 👘
	5624 WiFi Handset	10 A
Sub-Product:	5634 WiFi Handset	
	CT Gateway	

#### Mitel Revolution Technical Support

5. In the Site Information page, select the site from the drop-down list under Select Site.



In the Troubleshooting Notes page, enter the details of the issue and click SUBMIT.

Service Request Details	Contact Information	Product Information	Site Information	Troubleshooting Notes	
Symptoms/Details: *				Value is	required
	SUBMIT			2	

# Appendix 1 Mitel Revolution Integration Notes For MiVoice Connect

The following table summarizes a list of Integrated features when Mitel Revolution is connected to the MiVoice Connect Director.

Activator/Notification		Integration Detail	
Activators			
SIP Activator	Supported through SIP trunks.		
Emergency Call Activator	Dial Monitoring		
SIP Activator (Active-Standby)	MiVoice Connect utilizes multiple Trunks/Trunk Groups (one foreach Revolution server) with Custom Rules configured to designate trunk priority.		
Emergency call trigger (Active- Standby)	server sends Revolution se	The Dial Monitor program running on the MiVoice Connect server sends the configured Emergency numbers to each Revolution server the Connect server is added to, making emergency call triggers available in all Revolution servers.	
SIP Activator (Active-Active)	MiVoice Connect utilizes multiple Trunks/Trunk Groups (one foreach Revolution server) with Custom Rules configured to designate trunk priority.		
Emergency Call trigger (Active-Active)	The Dial Monitor program running on the MiVoice Connect server sends the configured Emergency numbers to each Revolution server the Connect server is added to, making emergency call triggers available in all Revolution servers.		
Notifications			
SIP Paging Notification	MiNET	Not applicable	
	SIP	Supports 4xx, 69xx, and 69xxw.	
XML Text Display	MiNET	Not applicable	
	SIP	4xx, 69xx, and 69xxw support XML text	
	MiNET	display. Not applicable	
XML Audio	SIP	4xx, 69xx, and 69xxw supports two-way XML audio.	
Multicast	MiNET	Not applicable	
	SIP	4xx, 69xx, and 69xxw support Multicast	
Location details	streams. Location details (Jack number) are sent as part of the notification.		

	(MR-19 - No Jack info when dialed from Soft-client)
SIP Paging Notification (Active-Standby)	Supported
XML Notification (Active-Standby)	The phone receives XML notifications from any Revolution server designated in the approved server list of the phone's config file.
Multicast Notification (Active-Standby)	Supported
SIP Paging Notification (Active- Active)	MiVoice Connect utilizes multiple Trunks/Trunk Groups (one for each Revolution server) with Custom Rules configured to designate trunk priority.
XML Notification (Active-Active)	The phone receives XML notifications from any Revolution server designated in the approved server list of the phone's config file.
Multicast Notification (Active-Active)	Supported



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