



A MITEL
PRODUCT
GUIDE

IP48x Desktop Phone and MiVoice Business Interoperability Guide

MiVoice Business (MiVB) Integration with IP48x Series Phones

Release Number 1.0

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Mitel Desktop Phone Interoperability Guide

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About This Document

This guide provides a reference for Mitel Authorized Solutions Providers on configuring **MiVoice Business** to support the **IP48x** series as a **Generic SIP Phone**. While the IP48x and associated endpoints can be deployed in multiple network configurations depending on the VoIP solution in use, this document focuses on a **basic SIP configuration** using MiVoice Business, including key provisioning and option programming requirements.

In addition to configuration guidance, this document also includes references to **Product Lifecycle Information** to ensure that partners deploying or supporting IP48x devices are fully aware of lifecycle planning implications and support timelines. The reference includes:

- Current product lifecycle phase
- Guidance for ongoing support and software availability
- Recommendations for future-proofing deployments
- Reference to official lifecycle documentation for compliance and customer communication

For detailed and up-to-date lifecycle status of IP48x devices and related systems, please consult the official **Mitel Product Lifecycle Documentation** available through the below portal.

Refer: <https://nuxeo.unify.com/nuxeo/site/proxy/nxdoc/view/raw/93ee0db1-ed3d-4a5f-ae3e-3727b7105ad3?source=SAMLSSO>

Supported Phone Models

The following IP400 phone models are supported:

- IP480
- IP480g
- IP485g

The following IP400 phone models are not supported:

- IP420
- IP420g

Supported Phone Features

The following is an overview of the features supported.

Feature	Feature Description
Basic Call	Making and Receiving calls
Registration/Authentication	Device registration and authentication
DTMF Signal	Sending DTMF after call setup (i.e. mailbox password)
Call Hold	Putting a call on hold
Call Transfer	Transferring a call to another destination
Call Forward	Forwarding a call to another destination
Conference	Conferencing multiple calls together

Feature	Feature Description
Redial	Last Number Redial
Personal Ring Group	Multiple sets ringing when one number dialed
MWI	Message Waiting Indication
TLS/SRTP	Making and Receiving calls using TLS/SRTP
Teleworker	Making and Receiving calls using UDP and TLS/SRTP
Long Duration Calls	Basic Incoming & Outgoing long duration calls
Resiliency	Device able to handle resiliency when primary MiVB or MBG goes down

Resiliency

The IP48x device supports the following resiliency mechanisms when connected to MiVoice Business.

Scenario	Description	Behavior
DNS-Based Resiliency	Resiliency is achieved by using DNS servers that return multiple IP addresses for a single FQDN, typically through DNS SRV or A records.	The device resolves the FQDN and automatically moves to the next available IP address if the primary becomes unreachable
Primary and Backup Outbound Proxy	Used in environments where DNS SRV is not applicable. The device is configured with both a primary and backup outbound proxy.	If the primary proxy becomes unreachable, the device automatically redirects SIP requests to the backup proxy.
Enhanced Failover Using OPTIONS Ping	Builds on DNS-Based Resiliency and Primary and Backup Outbound Proxy by adding active monitoring. The device sends OPTIONS requests ("pings") to the active server to detect failure more rapidly.	If an OPTIONS request times out, the device immediately switches to the alternate server for all future requests. This provides significantly faster failure detection, allowing the device to fail over to an alternate MiVoice Business system much more quickly and with minimal user interruption. Faster detection reduces the likelihood that the user will notice any loss of service, as failover can occur almost immediately.

Supported Hardware and Software/Firmware Environment

The table below summarizes the hardware and software/firmware environment supported.

Product	Software/Firmware Version	Additional Applicable Variants
MiVoice Business	10.x	PPC, EX Controller, SMBC
MBG - Teleworker	12.x	Not Applicable
IP48X SIP	6.2.1.1079/ 6.2.1.1080/ 6.2.1.2022	IP480, IP480g and IP485g
MiCollab Server	10.x	Not Applicable

IP48x Firmware Upgrade Process

This section provides a complete guide for upgrading IP48x phones to SIP firmware compatible with MiVoice Business (MiVB). It covers pre-migration preparation, firmware upgrade stages, verification, and optional updates.

Note: During firmware upgrades, the phones may reboot one or more times. This is expected behavior.

Supported Firmware Versions

IP48x phones must first be upgraded to **804.2210.1600.0** before installing the Generic SIP firmware that works with MiVB. The following versions mentioned in the below table supports upgrade of IP48x devices to **804.2210.1600.0** version.

Build Series	Build Version	Comments
Azure	>= 801.5.1460.0	Supported
Brazos	802.x.xxxx.x	Any 802 build
Colorado	803.x.xxxx.x	Any 803 build
Connect	804.x.xxxx.x	Any 804 build

Unsupported Firmware Versions

Build Series	Comments
> 801.0.0.0 and < 801.5.4160.0	Supports only SSH-based upgrades where the server must initiate a TCP connection to the phone. Not compatible with the automated upgrade process.

Once upgraded to 804.2210.1600.0, the phones can be further upgraded to Generic SIP firmware (**6.2.1.1079 for IP485G / 6.2.1.1080 for IP480, IP480G**).

Note: The latest firmware at the time of documentation is **6.2.1.2022**. The IP48x devices can be upgraded to this firmware once they are in 6.2.1.1079/6.2.1.1080 version.

Pre-Migration Setup

PROVISION CONFIG SERVER

The IP48x phones must have the **configServer** parameter set. This can be done in two ways:

1. **Via DHCP Option 156** (recommended for multiple phones)
2. **Manually** on each phone using the admin menu

CONFIGURE DHCP OPTION 156 (PREFERRED)

Configure the enterprise DHCP server to include **Option 156** in DHCP replies:

Environment	configServer Setting	IP Address Equivalent
Production	ip400.mitelcloud.com	34.111.177.55

Note: Phones receiving this DHCP option will automatically populate the configServer parameter.

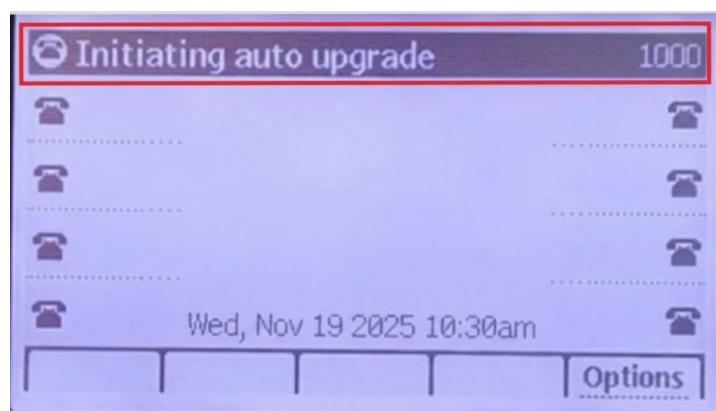
CONFIGURE INDIVIDUAL PHONES (MANUAL)

For environments where DHCP cannot be modified:

1. **Factory Reset**
 - Press **(mute-CLEAR#)** on the phone; it will reset and reboot.
2. **Set Config Server**
 - Press **(mute-SETUP#)** > **Admin Options** > **Services** > **Config Server**
 - Set Config Server 1:

Environment	configServer Setting	IP Address Equivalent
Production	ip400.mitelcloud.com	34.111.177.55

3. Press **Back** > **Back** > **Apply**
4. Wait a few seconds; the phone registers automatically with the **IP400Migration** service (default extension: 1000).
5. The display will show “**Initiating auto upgrade**”.

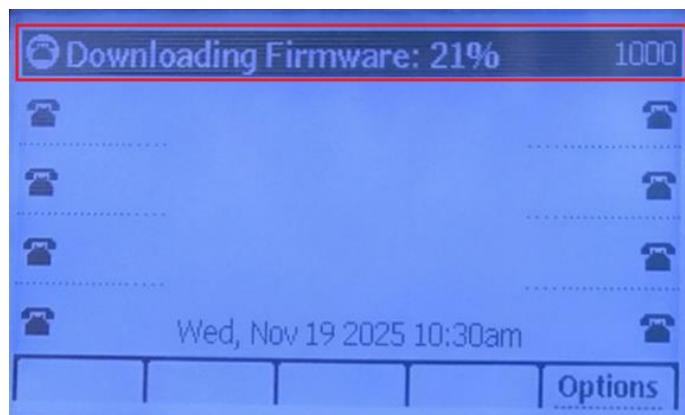


Firmware Upgrade Stages

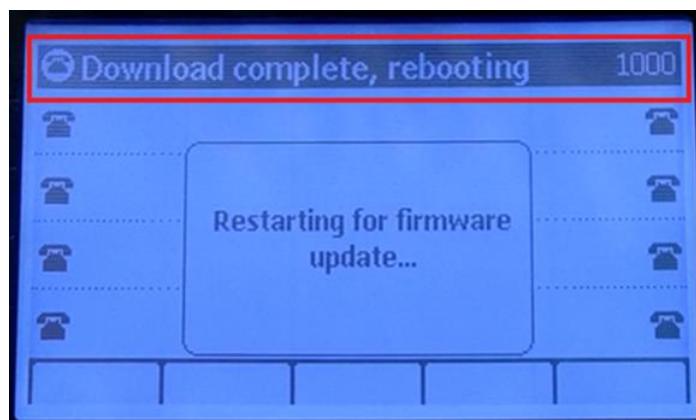
Firmware upgrades are divided into **two stages**. Stages are sequential and must be completed in order.

STAGE 1: UPGRADE TO LATEST 804 FIRMWARE

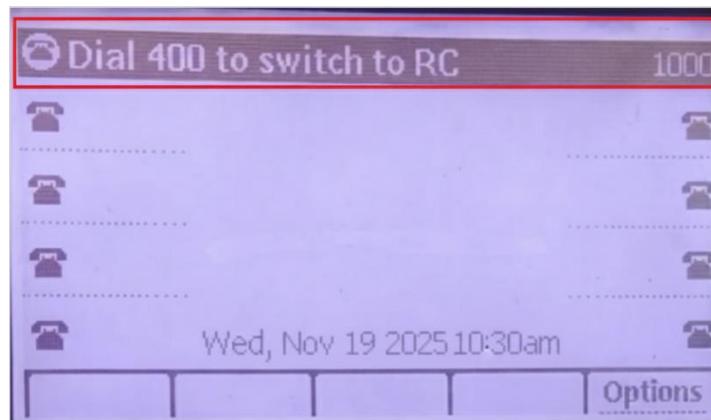
1. After pre-migration, the phone automatically starts upgrading to **804 firmware**.
 - o If **auto-upgrade does not start**, dial **804** manually on the keypad.
2. The phone displays “**Downloading Firmware**”.



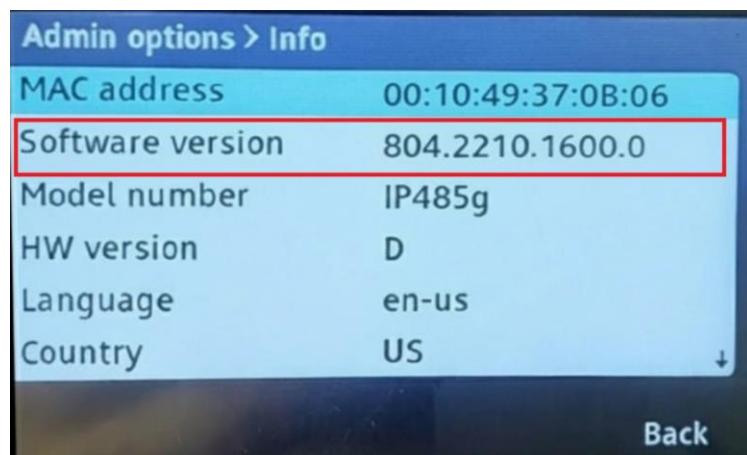
3. Upon completion, the phone **reboots** and loads the latest **804 firmware**.



4. After reboot, the screen displays “**Dial 400 to switch to RC**”

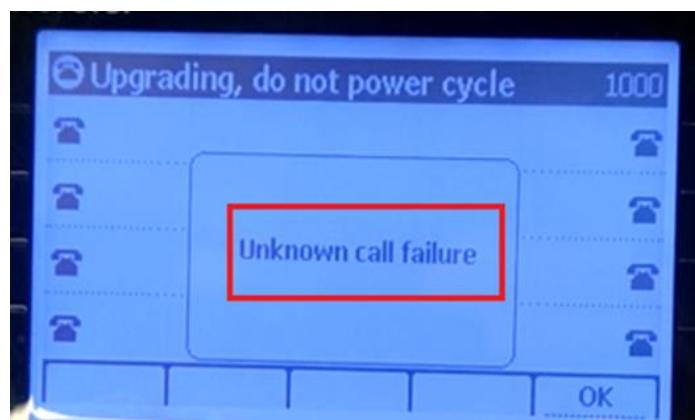


5. Verify Firmware Version
 - Press **(mute-SETUP#) > Admin Options > Phone Information**
 - Press **Cancel** when prompted for Admin password

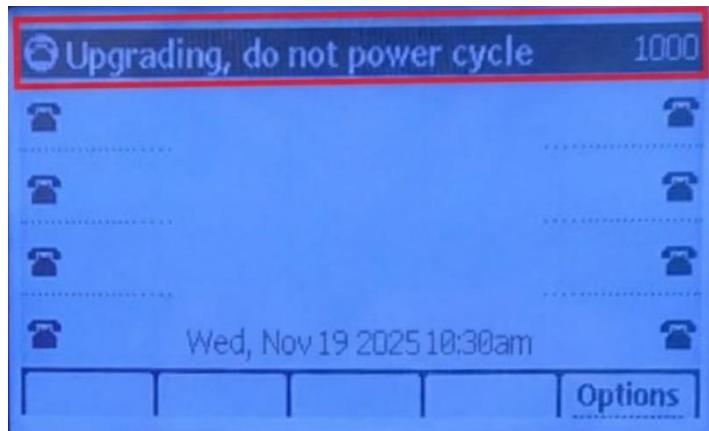


STAGE 2: UPGRADE TO GENERIC SIP FIRMWARE

1. Dial **400** on the keypad. The phone may display “**Unknown call failure**” — press **OK**.

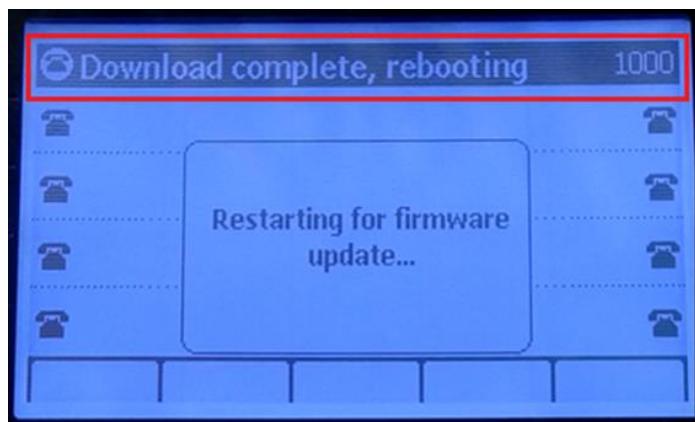


2. Wait **2–3 minutes**; the firmware downloads silently in the background. Do not power off the phone.



3. The phone **reboots automatically** and loads the **Generic SIP (ST) firmware**.

Note: IP480 and IP480g may undergo multiple reboots, while the IP485g reboots once.



4. Verify Generic SIP Firmware Version

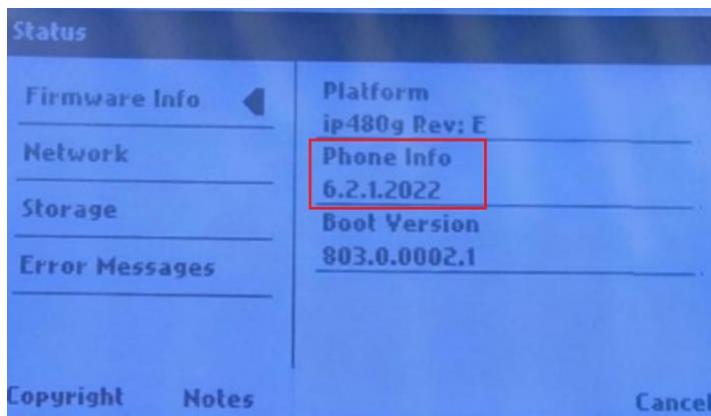
- Press **Settings > Status > Firmware Info > Phone Info**
- The firmware version for IP480 and IP480g: **6.2.1.1079**, IP485g: **6.2.1.1080**.

Notes:

1. Default admin password during migration: **1234**
2. Post-migration admin password: **22222**
3. Passwords are used for log uploads and configuration changes.

OPTIONAL: UPGRADE TO 6.2.1.2022

1. Configure FTP/TFTP server and place files:
 - ip480.st, ip480g.st, ip485g.st, and startup.cfg
2. Configure DHCP Scope Option 66 with string value: `ftp://<FTP Server IP>/<Path>`. For example, <ftp://10.211.122.75/Phones/6.2.1.2022>



Important Advisory: Upgrading to the Generic SIP firmware is a one-way operation. After migration, the device cannot be downgraded to the original firmware.

MiVoice Business (MiVB) Configuration

This section provides the required configuration steps on MiVoice Business to support registration and operation of IP48x phones running Generic SIP firmware.

Network Requirements

To ensure high-quality SIP audio, the network must meet the following requirements:

- **Bandwidth:** Approximate consumption per voice session:
 - **G.711:** ~85 Kb/s
 - **G.729:** ~29 Kb/s (Assumes 20 ms packetization.)

Example: For 20 simultaneous SIP calls

- G.711: ~1.7 Mb/s
- G.729: ~0.6 Mb/s

Typical enterprise LAN environments support this without special engineering. Refer to **MiVoice Business Engineering Guidelines** for detailed recommendations.

- **Quality Requirements:**
 - Packet loss: < 1%
 - Jitter: < 30 ms
 - One-way delay: < 80 ms

Assumptions for MiVB Programming

- SIP signaling uses **UDP port 5060**.
- For TLS deployments, use **TLS port 5061**.

Configuration Overview

The following MiVB forms must be programmed to enable successful interoperability with IP48x Generic SIP phones:

- Software Licensing
- Multiline IP Set Configuration (or User Configuration)

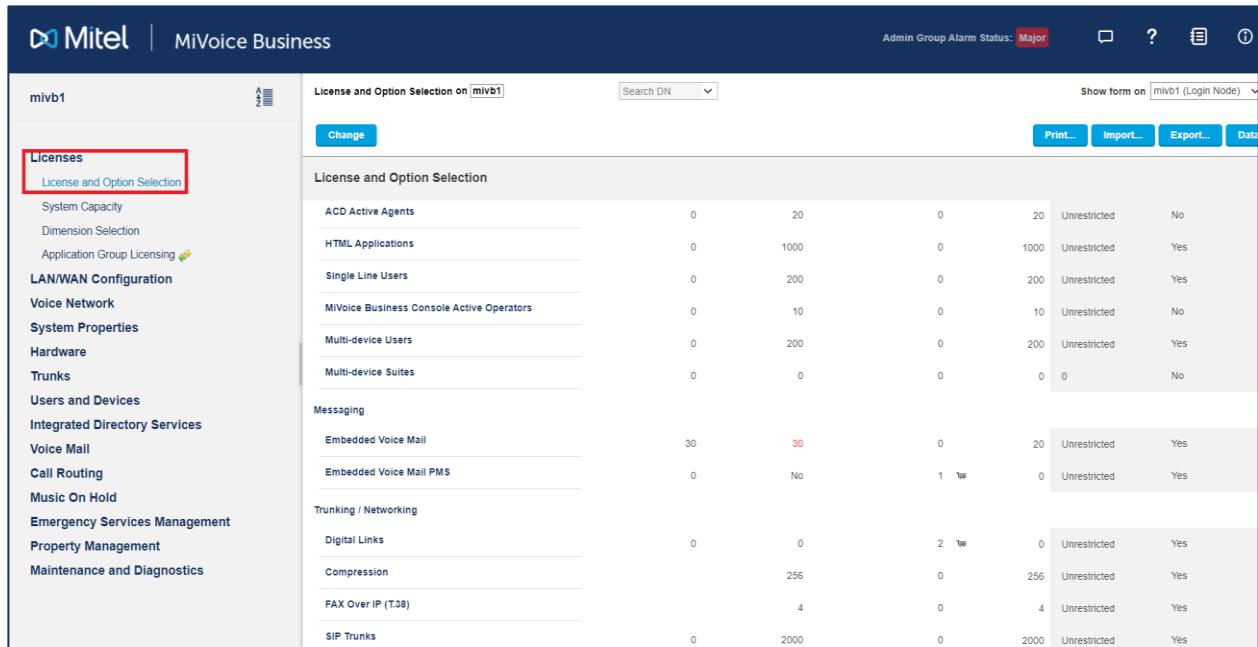
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- Class of Service Assignment
- SIP Device Capabilities
- Station Attributes

SOFTWARE LICENSE – SIP LICENSING

Ensure that MiVoice Business has sufficient **SIP Device Licenses** to support all IP48x SIP phones.

This can be verified in the **Software License > Feature** section.



License and Option Selection						
ACD Active Agents	0	20	0	20	Unrestricted	No
HTML Applications	0	1000	0	1000	Unrestricted	Yes
Single Line Users	0	200	0	200	Unrestricted	Yes
MiVoice Business Console Active Operators	0	10	0	10	Unrestricted	No
Multi-device Users	0	200	0	200	Unrestricted	Yes
Multi-device Suites	0	0	0	0	0	No
Messaging						
Embedded Voice Mail	30	30	0	20	Unrestricted	Yes
Embedded Voice Mail PMS	0	No	1	0	Unrestricted	Yes
Trunking / Networking						
Digital Links	0	0	2	0	Unrestricted	Yes
Compression		256	0	256	Unrestricted	Yes
FAX Over IP (T.38)		4	0	4	Unrestricted	Yes
SIP Trunks	0	2000	0	2000	Unrestricted	Yes

MULTILINE IP SET CONFIGURATION

IP48x phones must be programmed as **Generic SIP Phone** devices.

You may configure them using either of these MiVB forms:

- **User Configuration**
- **Multiline IP Set Configuration**

Required Fields

- **Number (DN):** Directory Number assigned to the phone.
- **SIP Password:** SIP authentication password used by the IP48x.
- All remaining fields may remain default unless site requirements dictate otherwise.

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CLASS OF SERVICE ASSIGNMENT

The **Class of Service (COS)** defines the feature permissions available to each SIP endpoint.

Many COS options may vary depending on site requirements; however, the IP48x Generic SIP Phone requires a specific set of COS values for correct operation.

The **Class of Service (COS) Options** form defines feature permissions for SIP devices. COS numbers are later assigned through the Station Attributes form.

The following COS options **must be changed from default** for Generic SIP devices to function correctly with MiVB:

COS Option	Default Value	IP48x value
Call Park – Allowed to Park	No	Yes
Auto Campon Timer	10	Blank (No fixed value)
Public Trunk	No	No

Note: Other COS options may be modified depending on deployment needs.

SIP DEVICE CAPABILITIES

The **SIP Device Capabilities** form creates a SIP profile applied to Generic SIP Phones. This profile defines how MiVB interacts with third-party SIP endpoints.

Required Settings for IP48x:

SIP Device Capabilities Number	Default	IP48x
Replace System based with Device based In-Call Features	No	Yes
Allow Device To Use Multiple Active M-Lines	No	Yes
Force sending SDP in initial Invite message	No	Yes
Prevent the Use of IP Address 0.0.0.0 in SDP Messages	No	Yes
Allow Display Update	No	Yes
Require Reliable Provisional Responses on Outgoing Calls	No	Yes
Session Timer	0	1800

The screenshot shows the MiVoice Business software interface. The left sidebar shows navigation options like Licenses, LAN/WAN Configuration, Voice Network, System Properties, System Settings, System Feature Settings, and SIP Device Capabilities. The SIP Device Capabilities option is highlighted with a red box. The main panel shows the 'SIP Device Capabilities on MN54' configuration for device 20. The 'Replace System based with Device based In-Call Features' setting is also highlighted with a red box. Other settings shown include Force sending SDP in initial Invite message, Prevent the Use of IP Address 0.0.0.0 in SDP Messages, Allow Display Update, and Require Reliable Provisional Responses on Outgoing Calls. The 'Session Timer' is set to 0 and 'IP48x' is selected.

Notes:

- For TLS/SRTP deployments:
 - Set **AVP Only Device** = No
 - Set **Force Sending SDP** = No

STATION ATTRIBUTES

To each IP48x Generic SIP Phone, use the **Station Attributes** form to assign:

- Class of Service (Day/Night1/Night2)**
- SIP Device Capability Number**

Example Assignment:

- SIP Device Capability Number:** 20

- **Class of Service (Day/Night1/Night2): 20**

Note: The form supports **Range Programming** for multiple phones.

Number	Intercept Number	Class of Service - Day	Class of Service - Night1	Class of Service - Night2	Class of Restriction - Day	Class of Restriction - Night1	Class of Restriction - Night2	Call Coverage Service Number	Default Acct. Code	Zone Assignment Method	Zone ID	Zone	SIP Device Capabilities
5493	1	12	12	12	1	1	1	1	1	Default	1	1	
5495	1	12	12	12	1	1	1	1	1	Default	1	1	
5496	1	12	12	12	1	1	1	1	1	Default	1	1	
5500	1	20	20	20	1	1	1	1	1	Manual	1	20	
5501	1	20	20	20	1	1	1	1	1	Manual	1	20	
5503	1	2	2	2	1	1	1	1	1	Manual	1	1	
55100	1	1	1	1	1	1	1	1	1	Manual	1	1	
55101	1	1	1	1	1	1	1	1	1	Default	1	1	
5511	1	20	20	20	1	1	1	1	1	Manual	1	20	
5601	1	6	6	6	1	1	1	1	1	Default	1	1	
5602	1	6	6	6	1	1	1	1	1	Default	1	1	

MiVoice Border Gateway Configuration for Teleworkers

This section describes the configuration required on the MiVoice Border Gateway (MBG) to enable teleworker connectivity for the IP48x Generic SIP Phone. The configuration assumes that MiVoice Business programming is already complete and that the MBG is operational within the deployment environment.

Overview

MBG acts as the secure gateway for remote IP48x SIP phones connecting over the public internet. The steps below outline how to register the MiVoice Business (MiVB) as an ICP within MBG and how to add IP48x Generic SIP devices for teleworker use.

Network Requirements

- Ensure the MBG is deployed according to the **Mitel Border Gateway Engineering Guidelines**.
- Verify adequate bandwidth, firewall rules, and public IP requirements for SIP teleworkers.

Configuration Assumptions

The following configuration prerequisites are assumed:

- MiVoice Business has been fully configured as outlined in the **MiVoice Business (MiVB) Configuration** section.
- SIP signalling between MiVB and MBG uses:
 - **UDP Port 5060** for standard SIP
 - **TLS Port 5061** for secure SIP
- The MBG server is installed, licensed, and configured to support SIP clients.

Adding MiVoice Business (ICP) to MBG

1. In the MBG interface, navigate to **Network > ICPs**.
2. Select **+ Add ICP**.

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3. Enter the required ICP details:

- ICP Name
- Fully Qualified Domain Name (FQDN) or IP Address
- ICP Type (MiVoice Business)

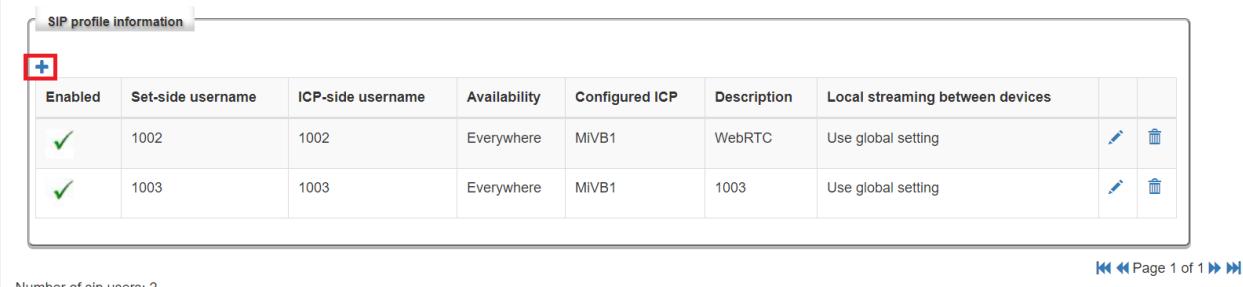
4. Click **Save**.

Adding IP48x Generic SIP Devices

To enable teleworker registration, configure each IP48x as a SIP device in MBG.

1. Navigate to **Teleworking > SIP**

2. Select **+ Add** to create a new SIP device.



SIP profile information						
Enabled	Set-side username	ICP-side username	Availability	Configured ICP	Description	Local streaming between devices
✓	1002	1002	Everywhere	MiVB1	WebRTC	Use global setting
✓	1003	1003	Everywhere	MiVB1	1003	Use global setting

Number of sip users: 2.

Page 1 of 1

3. In the SIP Device configuration screen, enter the following:

Set-Side Credentials

- Username
- Password

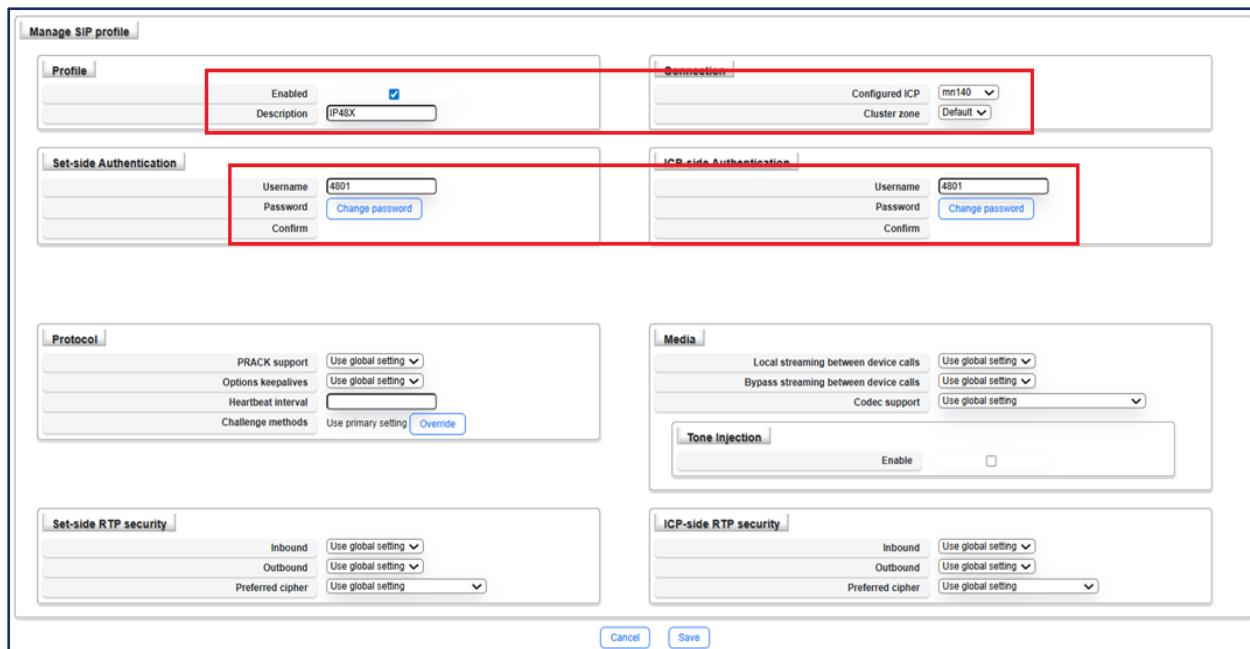
(These must match the SIP credentials provisioned on the IP48x phone.)

ICP-Side Credentials

- SIP Password
- Directory Number (DN)

(These must match the SIP extension programming on MiVoice Business.)

4. Complete all other required fields based on deployment needs, then click **Save**.



IP48x Configuration

Pre-requisites

Before configuring the IP48x device:

- Ensure the unit is powered on and connected to the network.
- Confirm that your PC is connected to the same TCP/IP network.
- A web browser is required to access the full configuration interface.
- If connecting directly to the IP48x, ensure the phone is powered via PoE.

Note: The IP48x phone, by default, obtains its IP address from the DHCP server in the network. If a DHCP server is not available, the IP48x phone can be configured with a static IP address, as described in the **Network Settings** section below.

Accessing the IP48x Web GUI

1. Ensure both the IP48x and your computer are connected to the LAN. A direct cable connection requires PoE.
2. Open a supported web browser and navigate to the phone's IP address, for example:
<https://192.168.10.35>
3. When prompted, enter the default credentials:
 - Username: admin
 - Password: 22222
4. Upon successful login, the Web GUI Home Page appears.

Configuration Settings Using the IP48x Phone Display

1. Press **Settings** on the phone display.
2. Go to **Advanced**.

3. Enter the password **22222** and press **Enter**.
4. Navigate to **Network**.
5. Scroll down to **Settings**.
6. Uncheck **Use DHCP?**.
7. Enter the **IP address**.
8. Enter the **Subnet Mask**.
9. Enter the **Gateway**.
10. Enter the **Primary** and **Secondary DNS**.
11. Select **Save**.
12. When prompted, click **Yes** to restart the phone.

Network Settings

Use DHCP?	<input type="checkbox"/>
DHCP User Class	
DHCP Download Option	Any
IP Address	10.211.26.164
Subnet Mask	255.255.255.0
Gateway	10.211.26.1

Save Cancel

Configuration Settings Using the IP48x Web GUI

SIP CONFIGURATION

1. Navigate to **Advanced Settings > Global SIP**
2. Configure the following:
 - **Basic SIP Authentication Settings:**
 - Phone Number
 - Caller ID
 - Authentication Name
 - Authentication Password
 - **Basic SIP Network Settings:**
 - Enter MiVB/MBG FQDN or IP details:
 - Proxy Server
 - Proxy Port
 - Registrar Server

- Registrar Port
- **Advanced SIP Settings:**
 - Transport Protocol:
 - Set to **UDP**
 - Port: **5060**

Global SIP Settings

Basic SIP Authentication Settings

Screen Name	<input type="text"/>
Screen Name 2	<input type="text"/>
Phone Number	<input type="text"/> 1234
Caller ID	<input type="text"/> 1234
Authentication Name	<input type="text"/> 1234
Password	<input type="text"/>

Basic SIP Network Settings

Proxy Server	<input type="text"/> 192.168.10.94
Proxy Port	<input type="text"/> 5060
Backup Proxy Server	<input type="text"/> 0.0.0.0
Backup Proxy Port	<input type="text"/> 0
Outbound Proxy Server	<input type="text"/> 0.0.0.0
Outbound Proxy Port	<input type="text"/> 0
Backup Outbound Proxy Server	<input type="text"/> 0.0.0.0
Backup Outbound Proxy Port	<input type="text"/> 0

Advanced SIP Settings

Explicit MWI Subscription	<input type="checkbox"/> Enabled
Explicit MWI Subscription Period	<input type="text"/> 86400
MWI for BLA account	<input type="checkbox"/> Enabled
As-Feature-Event Subscription	<input type="checkbox"/> Enabled
As-Feature-Event Subscription Period	<input type="text"/> 3600
UA-Profile-Event Subscription	<input type="checkbox"/> Enabled
UA-Profile-Event Subscription Period	<input type="text"/> 86400
Send MAC Address in REGISTER Message	<input type="checkbox"/> Enabled
Send Line Number in REGISTER Message	<input type="checkbox"/> Enabled
Session Timer	<input type="text"/> 0
T1 Timer	<input type="text"/> 0
T2 Timer	<input type="text"/> 0
Transaction Timer	<input type="text"/> 4000

Transport Protocol

Local SIP UDP/TCP Port	<input type="text"/> 5060
Local SIP TLS Port	<input type="text"/> 5061
Registration Failed Retry Timer	<input type="text"/> 1800
Registration Timeout Retry Timer	<input type="text"/> 120
Registration Renewal Timer	<input type="text"/> 15
BLF Subscription Period	<input type="text"/> 3600
ACD Subscription Period	<input type="text"/> 3600

CODEC SETTINGS

Navigate to the Codec Settings section to ensure codecs align with MiVB expectations (G.711 / G.729 based on deployment).

BLA Subscription Period

Blacklist Duration	<input type="text"/> 300
Park Pickup Config	<input type="text"/> 300
Whitelist Proxy	<input type="checkbox"/> Enabled
XML SIP Notify	<input type="checkbox"/> Enabled

RTP Settings

RTP Port	<input type="text"/> 3000
Force RFC2833 Out-of-Band DTMF	<input checked="" type="checkbox"/> Enabled
DTMF Method	<input type="text"/> RTP
RTP Encryption	<input type="text"/> SRTP Disabled

Codec Preference List

Note: Basic Codecs Include G.711u (8K), G.711a (8K), G.729

Codec 1	<input type="text"/> All
Codec 2	<input type="text"/> None
Codec 3	<input type="text"/> None
Codec 4	<input type="text"/> None
Codec 5	<input type="text"/> None
Codec 6	<input type="text"/> None
Codec 7	<input type="text"/> None
Codec 8	<input type="text"/> None
Codec 9	<input type="text"/> None
Codec 10	<input type="text"/> None
Packetization Interval	<input type="text"/> 30
Silence Suppression	<input checked="" type="checkbox"/> Enabled

Autodial Settings

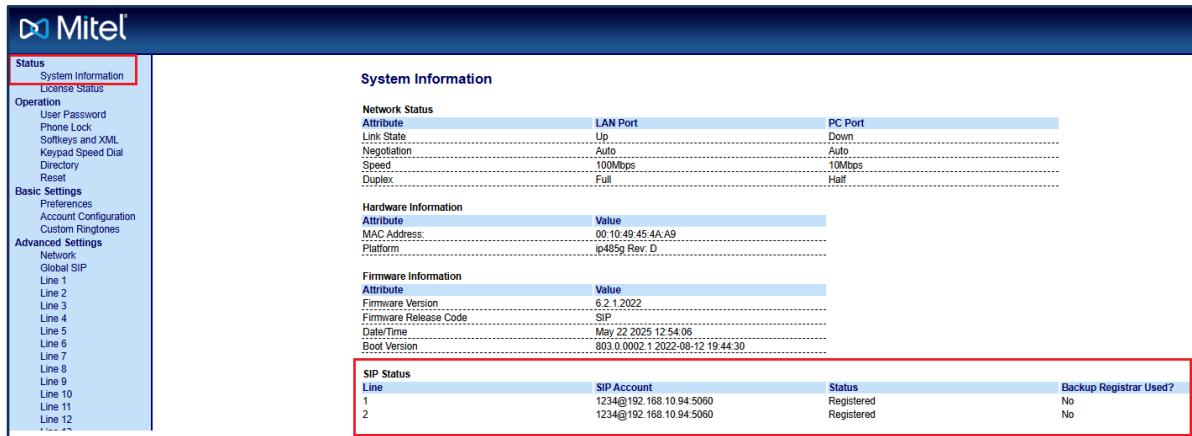
Autodial Number	<input type="text"/>
Autodial Timeout	<input type="text"/> 0

Save Settings

REGISTRATION STATUS

To confirm successful MiVB/MBG registration:

1. Navigate to **Status** → **System Information**
2. Verify that the **Registration Status** shows the SIP account as **Registered**.



The screenshot shows the 'System Information' page of the Mitel web interface. The left sidebar has a 'Status' section with 'System Information' highlighted. The main content area shows 'System Information' with a table of network status, hardware information, and firmware information. At the bottom is a table for 'SIP Status' with two entries. The second entry, for Line 2, has its 'Status' field set to 'Registered' and its 'Backup Registrar Used?' field set to 'No'. The entire 'SIP Status' table is highlighted with a red box.

SIP Status	Line	SIP Account	Status	Backup Registrar Used?
	1	1234@192.168.10.94:5060	Registered	No
	2	1234@192.168.10.94:5060	Registered	No

TLS/SRTP Configuration on IP48x SIP Phone

To enable secure signaling and media, the IP48x SIP Phone supports TLS (for SIP signaling) and SRTP (for RTP media encryption).

IMPORT ROOT CERTIFICATES AND CONFIGURATION FILE

Depending on your deployment, import the appropriate files into the IP48x:

- **Direct MiVB Registration**

Import:

- **MiVB Root CA Certificate**
- **startup.cfg** (contains required TLS/SRTP parameters)

- **MBG / Teleworker Deployment**

Import:

- **MBG Root CA Certificate**
- **startup.cfg** (same file)

Required Parameters in startup.cfg:

- `sips persistent tls: 0`
- `sip persistent tls keep alive: 60`
- `sip send sips over tls: 0`
- `sips trusted certificates: CA.pem`

Note: These files can be uploaded via **TFTP** or **HTTP**, based on your provisioning setup.

Mitel Desktop Phone Interoperability Guide

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Keypad Speed Dial
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Line 15
Line 16
Line 17
Line 18
Line 19
Line 20
Line 21
Line 22
Line 23

Configuration Server Settings

Settings

Download Protocol	HTTP <input type="button" value="▼"/>
Primary Server	0.0.0.0
Pri TFTP Path	0.0.0.0
Alternate Server	0.0.0.0
Alt TFTP Path	0.0.0.0
Use Alt TFTP	<input type="checkbox"/> Enabled
FTP Server	0.0.0.0
FTP Path	0.0.0.0
FTP Username	0.0.0.0
FTP Password	0.0.0.0
HTTP Server	10.211.26.232
HTTP Path	Newfolder/TW/
HTTP Port	80
HTTPS Server	0.0.0.0
HTTPS Path	0.0.0.0
HTTPS Port	443

Auto-Resync

Mode	None <input type="button" value="▼"/>
Time (24-hour)	00.00 <input checked="" type="button" value="▼"/>
Maximum Delay	15
Days	0

XML Push Server List(Approved IP Addresses)

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Line 21
Line 22
Line 23
Line 24
Action URI
Configuration Server
Emergency Update
TLS Support
802.1x Support
Troubleshooting
Capture
Diagnostics
Screenshot

TLS Support

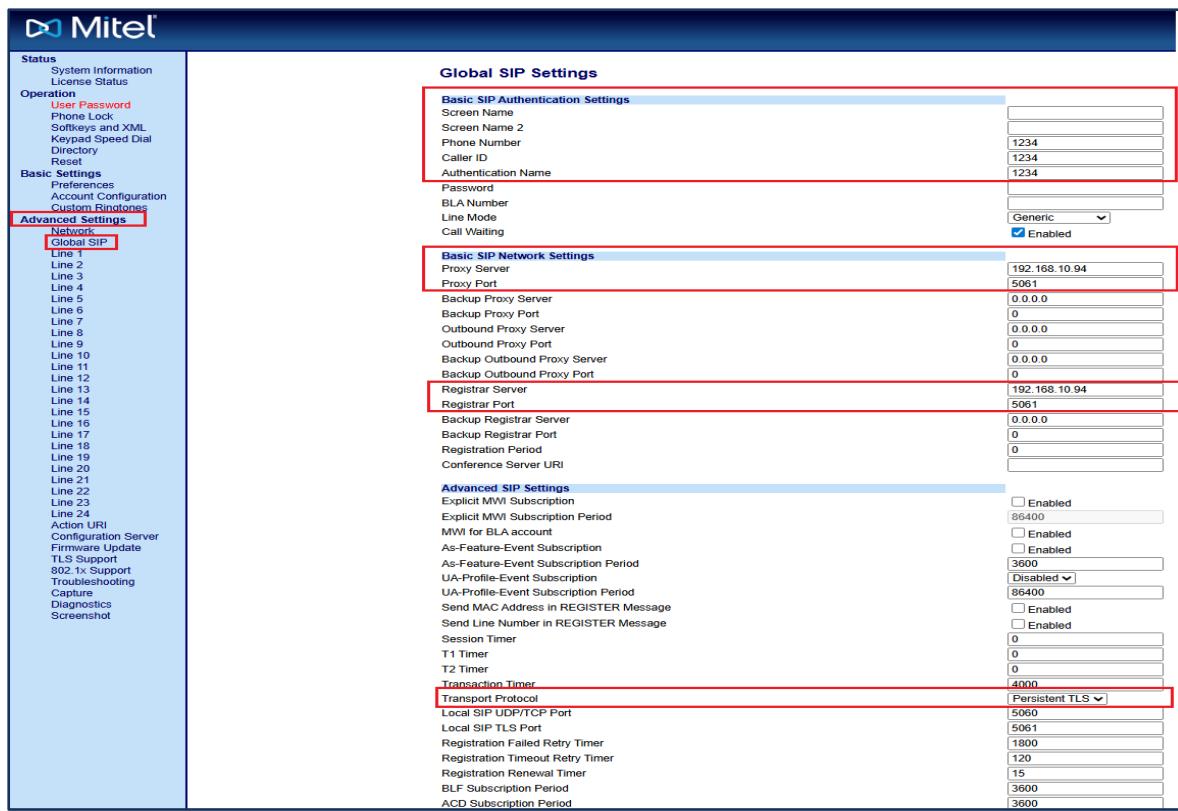
Configure File Names

Root and Intermediate Certificates Filename	0.0.0.0
Local Certificate Filename	0.0.0.0
Private Key Filename	0.0.0.0
Trusted Certificates Filename	CA.pem

CONFIGURE TLS TRANSPORT

Navigate to **Advanced Settings > Global SIP**

- Change Transport Protocol to **Persistent TLS**
- Set SIP signaling port to **5061**



CONFIGURE SRTP FOR MEDIA ENCRYPTION

Navigate to **Advanced Settings > RTP Settings** and set **RTP Encryption** to **SRTP Only**

