

Technical Application Note

MP-20x Mass Deployment Preparations

Version 2.6.x



Table of Contents

1	Introduction	7
1.1	Working with Telnet.....	7
2	Mass Deployment Preparation Steps	9
2.1	Step 1: Configure MP-20x using the Web-based Management.....	10
2.1.1	Mandatory Configuration	10
2.1.1.1	Remote Configuration File Update.....	10
2.1.1.2	Remote Firmware File Update	12
2.1.2	Common Configuration.....	13
2.1.2.1	SIP Proxy	13
2.1.2.2	Codecs	14
2.1.2.3	Fax and Modem	15
2.1.2.4	Line Settings.....	17
2.1.2.5	Regional Settings	18
2.1.2.6	Date and Time.....	19
2.1.2.7	Users	20
2.2	Step 2: Test MP-20x Functionalities	21
2.2.1	VoIP Tests	21
2.2.2	Access Tests	21
2.2.3	NTP Tests.....	21
2.3	Step 3: Save Modified Configuration Parameters.....	22
2.4	Step 4: Rename ini File.....	23
2.5	Step 5: Change Remote Update Configuration File Version Number.....	23
2.6	Step 6: Save ini File to Server.....	23
2.7	Step 7: Verify ini File Retrieved from Server and Updated	23
2.8	Step 8: Fill in Factory Defaults Questionnaire.....	24
2.9	Step 9: Send Files to AudioCodes	24

Reader's Notes

Notice

This document describes the preparations for the mass deployment of AudioCodes MP-20x Telephone Adapter.

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Abbreviations and Terminology

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Related Documentation


Document #	Manual Name
LTRT-505xx	MP-202 Telephone Adapter Release Notes
LTRT-506xx	MP-202 Telephone Adapter User's Manual
LTRT-504xx	MP-202 Telephone Adapter Quick Installation Guide

1 Introduction

The MP-20x is designed for mass deployment by carriers and service providers.

This document provides step-by-step procedures (using the Web-based management interface or Telnet) for creating a single configuration factory default template `.conf` file. Based on this file, AudioCodes manufactures the MP-20x private labeling units.



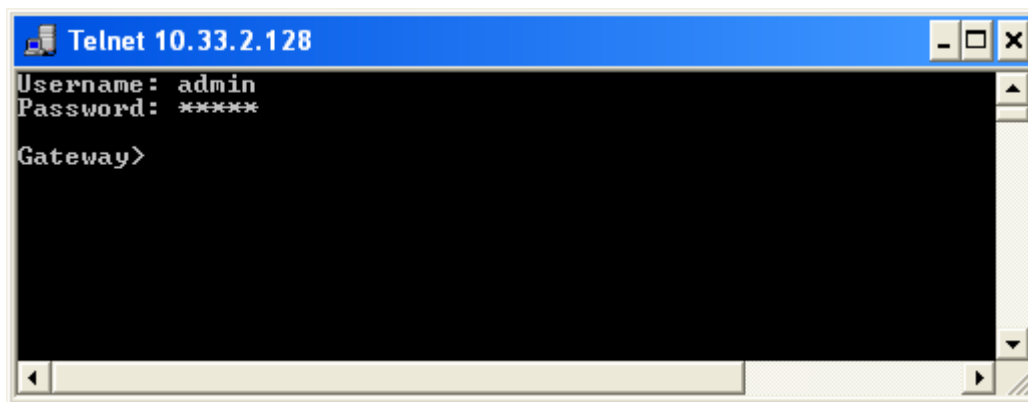
Note: By default, the MP-20x can be accessed only using Web/Telnet through the MP-20x LAN interface port. However, you can enable WAN access, by configuring remote administration in the Web-based management interface (**Advanced** menu > **Remote Administration**  icon).

1.1 Working with Telnet

The procedure below describes how to access the MP-20x using Telnet and how to view and configure parameters using Telnet.

➤ **To access MP-20x using Telnet:**

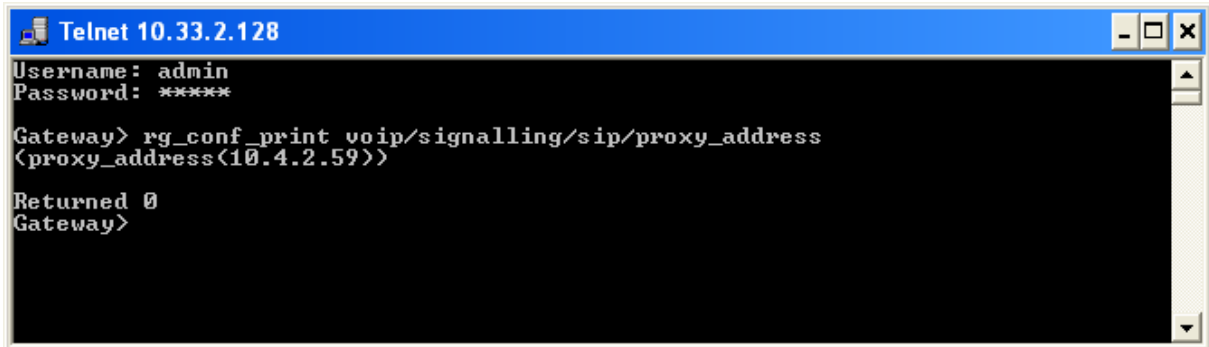
1. Connect your PC to the MP-20x **LAN/PC** port.
2. Telnet MP-20x using the MP-20x LAN IP address.
3. Enter the username and password (default is case-sensitive “admin” for both username and password).



```
Telnet 10.33.2.128
Username: admin
Password: *****
Gateway>
```

- To view an existing parameter value, type the following:

```
rg_conf_print <parameter location>/<parameter name>
```

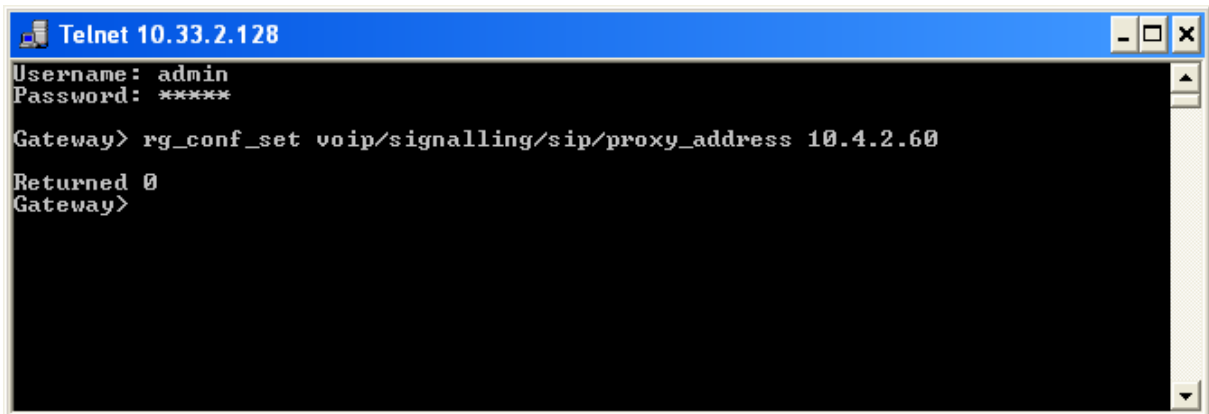


```

Telnet 10.33.2.128
Username: admin
Password: *****
Gateway> rg_conf_print voip/signalling/sip/proxy_address
(proxy_address(10.4.2.59))
Returned 0
Gateway>
    
```

- To configure (modify) an existing parameter value, type the following:

```
rg_conf_set <parameter location>/<parameter name> <value>
```



```

Telnet 10.33.2.128
Username: admin
Password: *****
Gateway> rg_conf_set voip/signalling/sip/proxy_address 10.4.2.60
Returned 0
Gateway>
    
```



Note: In the configuration file (.ini), the parameter appears as follows:
rg_conf/voip/signalling/sip/proxy_address=10.10.2.2

2 Mass Deployment Preparation Steps

The preparation for MP-20x mass deployment include the following steps:

- Step 1: Configure the MP-20x through the Web-based management interface (refer to Section 2.1 on page 10)
- Step 2: Test all MP-20x configured functionalities (refer to Section 2.2 on page 21)
- Step 3: Save the modified configuration fields only as an .ini file (refer to Section 2.3 on page 22)
- Step 4: Rename the .ini file (refer to Section 2.4 on page 23)
- Step 5: Change the remote update configuration version number (refer to Section 2.5 on page 23)
- Step 6: Save the .ini file to the server (refer to Section 2.6 on page 23)
- Step 7: Verify that the correct .ini file is retrieved from the server and updated (refer to Section 2.7 on page 23)
- Step 8: Complete the Factory Defaults Enquiry Form (refer to Section 2.8 on page 24)
- Step 9: Send the modified configuration fields only .ini file and Factory Defaults Enquiry Form to AudioCodes (refer to Section 2.9 on page 24)

2.1 Step 1: Configure MP-20x using the Web-based Management

2.1.1 Mandatory Configuration

2.1.1.1 Remote Configuration File Update


The remote configuration file update mechanism allows the MP-20x units to retrieve an updated configuration file every user-defined interval from an HTTP/HTTPS/FTP/TFTP server. Once the MP-20x units are deployed in the field (connected to the Internet), each unit automatically retrieves its own unique configuration file from the remote server.

The configuration using the Web is described in Section 2.1.1.1.1. For corresponding configuration using Telnet (and additional parameters), refer to 2.1.1.1.2.




Note: After resetting/restoring defaults, the MP-20x retrieves the configuration file four times in 8 minutes. Afterwards, it retrieves the file according to a user-defined interval.

2.1.1.1.1 Web

To configure remote configuration file update using the Web interface, access the “Load Configuration File” screen (**Advanced** menu > **Configuration File**  icon > **Load Configuration File** button):

Load the Configuration File From Remote Server:



Remote Configuration File URL

Check every hours

2.1.1.1.2 Telnet

The parameters for remote configuration file update that can be configured using Telnet are shown below:

```
rg_conf/rmt_config/enabled=1
rg_conf/rmt_config/check_interval=86400
rg_conf/rmt_config/version=0
rg_conf/rmt_config/url= http://<Server IP>/MP20x_<MAC>.ini
```

The descriptions of the above parameters are as follows:

- **rmt_config/enabled:** should be set to 1 for activating the remote update configuration mechanism. (The corresponding Web parameter is “Automatically check for new configuration file”.)
- **rmt_config/check_interval:** remote update configuration mechanism is triggered according to this time (in seconds). The default is 86400 (i.e., every 24 hours).

- **rmt_config/version:** each time the MP-20x retrieves the configuration file from the server, it checks if the parameter's value in the configuration file is higher than the current "rmt_config/version" value. If it is higher, then the configuration file is then updated to the MP-20x. The factory default is 0. The max. value is 2147483647. This is usually used as date and time. For example, 0908192230 denotes the date 19/08/2009 and time 22:30.
- **rmt_config/url:** indicates the HTTP/HTTPS/TFTP/FTP server name/IP address, and the name of the configuration file. The configuration file name extension can be **.ini** or **.conf**.



Note: Loading configuration file using the Web is possible only with the **.conf** file format. Loading configuration file using a remote server can use either **.conf** or **.ini** file formats.

The format of the URL (for example, using an HTTP server) is:

```
rg_conf/rmt_config/url= http://10.10.1.4/MP20x_<MAC>.ini
```

In the example above, when the MP-20x (with MAC address 00:90:8F:12:34:56) performs a HTTP GET to the remote server, it requests the configuration file "MP20x_00908F123456.ini".

Below are additional **rg_conf/rmt_config/url** syntax examples:

- http://100.10.2.4/<MAC>.ini
- http://abc-server.com/<MAC>.ini
- http://100.10.2.5/MP20x_<MAC>.ini



Notes:

- The MP-20x replaces the <MAC> attribute with its WAN MAC address.
- The attribute for the M,AC address can only be **all** upper case <MAC> or **all** lower case <mac>.

2.1.1.2 Remote Firmware File Update


The remote firmware file update feature retrieves, at every user-defined interval, an **.rmt** file from an HTTP/HTTPS/FTP/TFTP server.

The configuration using the Web is described in Section 2.1.1.2.1. For corresponding configuration using Telnet (and additional parameters), refer to Section 2.1.1.2.2.




Note: Only upgrade is possible when using the remote update firmware mechanism. (Downgrade is possible only through the Web-based Management interface.)

2.1.1.2.1 Web

To configure remote firmware file upgrade using the Web interface, access the “MP20X Firmware Upgrade” screen (**Advanced** menu > **MP20X Firmware Upgrade**  icon):

Upgrade From the Internet:

 Automatically Check for New Versions and Upgrade MP20X ▼

Check every hours at URL

first check will start minutes after powerup

Next check scheduled in 2:40 hours

Status: OK

Internet Version: No new version available

2.1.1.2.2 Telnet

The parameters for remote firmware file upgrade that can be configured using Telnet are shown below:

```

rg_conf/rmt_upd/wan_upgrade_type=1
rg_conf/rmt_upd/check_interval=86400
rg_conf/rmt_upd/url= http://<Server IP>/<Version_Name>.rmt
```

The descriptions of the above parameters are as follows:

- **rmt_upd/wan_upgrade_type:** should be set to 1 for activating the remote firmware upgrade mechanism. (The corresponding Web parameter is “Automatically Check for New Version and Upgrade MP20X”.)
- **rmt_upd/check_interval:** remote upgrade firmware mechanism is triggered according to this time (in seconds). The factory default is 86400 (i.e., every 24 hours).
- **rmt_upd/url:** indicates the HTTP/HTTPS/TFTP/FTP server name/IP address, and the name of the firmware file.

2.1.2 Common Configuration

2.1.2.1 SIP Proxy

Typically, the SIP Proxy and the Registrar are the same entity.

The configuration using the Web is described in Section 2.1.2.1.1. For corresponding configuration using Telnet (and additional parameters), refer to Section 2.1.2.1.2.

2.1.2.1.1 Web

To configure the SIP proxy and Registrar using the Web interface, access the “Voice Over IP – Signaling Protocol” screen (**Voice Over IP** menu > **Signaling Protocol** tab > **SIP Proxy and Registrar** group):

SIP Proxy and Registrar	
<input checked="" type="checkbox"/> Use SIP Proxy	
Proxy IP Address or Host Name:	<input type="text" value="10.10.2.2"/>
Proxy Port:	<input type="text" value="5060"/>
Maximum Number of Authentication Retries:	<input type="text" value="4"/>
<input checked="" type="checkbox"/> Use SIP Proxy IP and Port for Registration	
Register Expires:	<input type="text" value="3600"/> Seconds

2.1.2.1.2 Telnet

The parameters for SIP proxy and Registrar that can be configured using Telnet are shown below:

```
rg_conf/voip/signalling/sip/proxy_address=10.10.2.2
rg_conf/voip/signalling/sip/use_proxy=1
rg_conf/voip/signalling/sip/proxy_timeout=3600
```

2.1.2.2 Codecs

The configuration of voice codecs using the Web is described in Section 2.1.2.2.1. For corresponding configuration using Telnet (and additional parameters), refer to Section 2.1.2.2.2.

2.1.2.2.1 Web

To configure the voice codecs using the Web interface, access the “Voice Over IP – Media Streaming” screen (**Voice Over IP** menu > **Media Streaming** tab > **Codecs** group):

Codecs		
Codecs Priority	Supported Codecs	Packetization Time (milliseconds)
1st Codec	G.711, 64kbps, u-Law	20
2nd Codec	G.711, 64kbps, A-Law	20
3rd Codec	G.729, 8kbps	30
4th Codec	[None]	10
5th Codec	[None]	10
6th Codec	[None]	10

G.723 Bitrate	
G.723 Bitrate:	G.723 High Bitrate (6.3kbps)
	G.723 Low Bitrate (5.3kbps)
	G.723 High Bitrate (6.3kbps)

2.1.2.2.2 Telnet

The parameters for voice codecs that can be configured using Telnet are shown below:

```

rg_conf/voip/codec/0/enabled=1
rg_conf/voip/codec/0/name=PCMU
rg_conf/voip/codec/0/ptime=20
rg_conf/voip/codec/1/enabled=1
rg_conf/voip/codec/1/name=PCMA
rg_conf/voip/codec/1/ptime=20
rg_conf/voip/codec/2/enabled=1
rg_conf/voip/codec/2/name=G729
rg_conf/voip/codec/2/ptime=30
rg_conf/voip/codec/3/enabled=0
rg_conf/voip/codec/3/name=g723
rg_conf/voip/codec/3/bit_rate_hi=1
rg_conf/voip/codec/3/ptime=30
rg_conf/voip/codec/4/enabled=0
rg_conf/voip/codec/4/name=g726-16
rg_conf/voip/codec/4/ptime=20
rg_conf/voip/codec/5/enabled=0
rg_conf/voip/codec/5/name=g726-32
rg_conf/voip/codec/5/ptime=20
  
```

2.1.2.3 Fax and Modem

The common fax method is T38, which is the most reliable method for transferring fax data over the Internet.

The configuration using the Web is described in Section 2.1.2.3.1. For corresponding configuration using Telnet (and additional parameters), refer to Section 2.1.2.3.2.

2.1.2.3.1 Web

To configure the fax method using the Web interface, access the “Voice Over IP – Voice and Fax” screen (**Voice Over IP** menu > **Voice and Fax** tab > **Fax & Modem Settings** group):

Fax and Modem Settings	
Fax Transport Mode:	T.38 Relay
Max Rate:	14.4 Kbps
Max Buffer:	1024
Max Datagram:	320
Image Data Redundancy Level:	0
T30 Control Data Redundancy Level:	0
Fax Relay Jitter Buffer Delay:	0
<input type="checkbox"/> Error Correction Mode	
Modem Transport Mode:	Transparent
Fax/Modem Bypass Codec:	G.711, 64kbps, A-Law
<input type="checkbox"/> Enable CNG Detection	
<input type="checkbox"/> Switch To Fax Only By The Answering Side	

2.1.2.3.2 Telnet

The parameters for fax that can be configured using Telnet are shown below:

```
rg_conf/voip/audio/fax/max_buffer=1024
rg_conf/voip/audio/fax/max_datagram=320
rg_conf/voip/audio/fax/ImageDataRedundancyLevel=0
rg_conf/voip/audio/fax/T30ControlDataRedundancyLevel=0
rg_conf/voip/audio/fax/FaxModemJitter=0
rg_conf/voip/audio/fax/cng_detection_enabled=0
rg_conf/voip/audio/fax/remote_side_reinvite=0
rg_conf/voip/audio/fax/max_rate=14.4 Kbps
rg_conf/voip/audio/fax/error_coerrection_enable=0
rg_conf/voip/audio/fax/fax_bypass_payload=102
rg_conf/voip/audio/fax/audio_startup_enabled=0
rg_conf/voip/audio/fax/fax_audio_start_payload=120
rg_conf/voip/audio/fax/fax_end_report=0
rg_conf/voip/audio/fax/fax_transport_mode=T.38Relay
rg_conf/voip/audio/fax/data_transport_mode=Transparent
rg_conf/voip/audio/fax/update_fax_to_transparent_enable=0
```

The descriptions of the above parameters are as follows:

- **voip/audio/fax/fax_transport_mode:** determines the fax method.
 - **T.38 Relay:** transporting T30 protocol reliably over the Internet.
 - **Transparent:** sending fax over the analog signal with the current codec.
 - **VBD:** sending fax over the analog signal with G711ulaw or G711Alaw codec.
 - **Bypass:** sending fax over the analog signal in specific configurable RTP payload.
- **voip/audio/fax/cng_detection_enabled:** enables CNG detection. When enabled and a fax is sent from an FXS line of the MP-20x, MP-20x sends re-INVITE with “t38” in its SDP message body once CNG is detected.
- **voip/audio/fax/remote_side_reinvite:** switch to fax only by CED from answering side. (When enabled, the parameter “Enable CNG Detection” disappears from the Web interface.)
- **voip/audio/fax/update_fax_to_transparent_enable:** fax fallback from T38 to transparent.

2.1.2.4 Line Settings

The line should be configured with a user ID, display name, line voice volume and authenticated with SIP user and SIP password.

The configuration using the Web is described in Section 2.1.2.4.1. For corresponding configuration using Telnet (and additional parameters), refer to Section 2.1.2.4.2.

2.1.2.4.1 Web

To configure the line's user ID, display name using the Web interface, access the "Voice Over IP – Line Settings" screen (**Voice Over IP** menu > **Line Settings** tab > Line1/Line2):

Line	User ID	Display Name	Action
<input checked="" type="checkbox"/> 1	0000000001	Line 1	
<input checked="" type="checkbox"/> 2	0000000002	Line 2	

Line Settings

Line Number:	1
User ID:	<input type="text" value="0000000001"/>
<input type="checkbox"/> Block Caller ID	
Display Name:	<input type="text" value="Line 1"/>
SIP Proxy	
Authentication User Name:	<input type="text" value="sipuser"/>
Authentication Password:	<input type="password" value="•••••"/>
Advanced Line Parameters	
Line Voice Volume (-31 to +31 db):	<input type="text" value="0"/>
<input checked="" type="checkbox"/> Enable Supplementary Services	

2.1.2.4.2 Telnet


The parameters for enabling the lines that can be configured using Telnet are shown below:

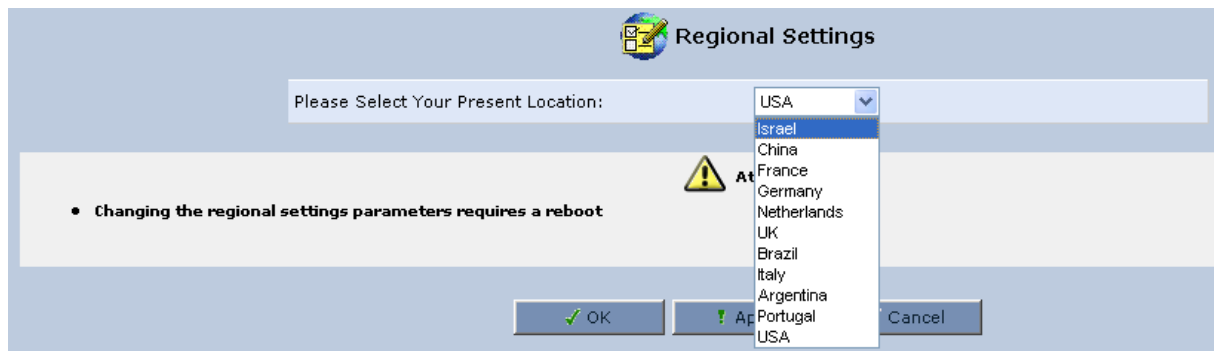
```
rg_conf/voip/line/0/enabled=1
rg_conf/voip/line/1/enabled=1
```

The parameters for additional line configuration that can be configured using Telnet are shown below:

```
rg_conf/voip/line/0/id=0000000001
rg_conf/voip/line/0/snd_callerid=1
rg_conf/voip/line/0/description=Line 1
rg_conf/voip/line/0/line_voice_volume=0
rg_conf/voip/line/0/supplementary_services=1
rg_conf/voip/line/1/id=0000000002
rg_conf/voip/line/1/snd_callerid=1
rg_conf/voip/line/1/description=Line 2
rg_conf/voip/line/1/line_voice_volume=0
rg_conf/voip/line/1/supplementary_services=1
```


2.1.2.5 Regional Settings


To configure the call progress tones according to location using the Web interface, access the “Regional Settings” screen (**Advanced** menu > **Regional Settings**  icon):



2.1.2.6 Date and Time

It is recommended to configure the MP-20x to operate with an NTP server and to adjust the time zone.

To configure the date and time using the Web interface, access the “Date and Time” screen (**Advanced** menu > **Date & Time**  icon):

 **Date and Time**

Localization

Local Time: Jan 2, 2003 20:11:09

Time Zone: GMT (GMT+00:00) ▼

Daylight Saving Time

Enabled

Start Time: Mar 28 00 : 00

End Time: Oct 28 01 : 00

Offset: 60 Minutes

Automatic Time Update




Enabled

Protocol:

Time Of Day (TOD)

Network Time Protocol (NTP)

Update Every: 24 Hours Sync Now

Time Server	Action
pool.ntp.org	 
New Entry	


Status: Waiting for response from server





2.1.2.7 Users



Configure an administrator user and a user for customers.

To configure users using the Web interface, access the “Users” screen (**Advanced** menu >

Users  icon):


 **Users**

Users			
Full Name	User Name	Permissions	Action
Administrator	admin	Administrator Permissions	
Customer	user	Administrator Permissions	 
New User			

Groups			
Name	Description	Members	Action
Users		Customer	
New Group			

Any username you configure will have administrator privileges, unless the username is “user”.

User of type “user” can only access the “Quick Setup” screen and change the Connection Type (DHCP, Static IP, PPPoE, L2TP, PPTP), as shown below:

 **Quick Setup**

[Logout](#)

Internet Connections

WAN Ethernet

Connection Type:	Automatic IP Address Ethernet Connection
Name:	
Status:	
MAC Address:	
IP Address:	10.33.0.3
Subnet Mask:	255.255.0.0
Default Gateway:	10.33.0.1
DNS Server:	10.1.1.11 10.1.1.10

2.2 Step 2: Test MP-20x Functionalities

After you have completed the configuration (in Step 1), perform the recommended MP-20x tests (in your network environment) listed below.

2.2.1 VoIP Tests

- Registration Test
- Outgoing Calls
- Incoming Calls
- CWT
- On-Hold

2.2.2 Access Tests

- Web Management through WAN
- Telnet through WAN
- Administrator Login
- User Login
- Remote Administration


2.2.3 NTP Tests

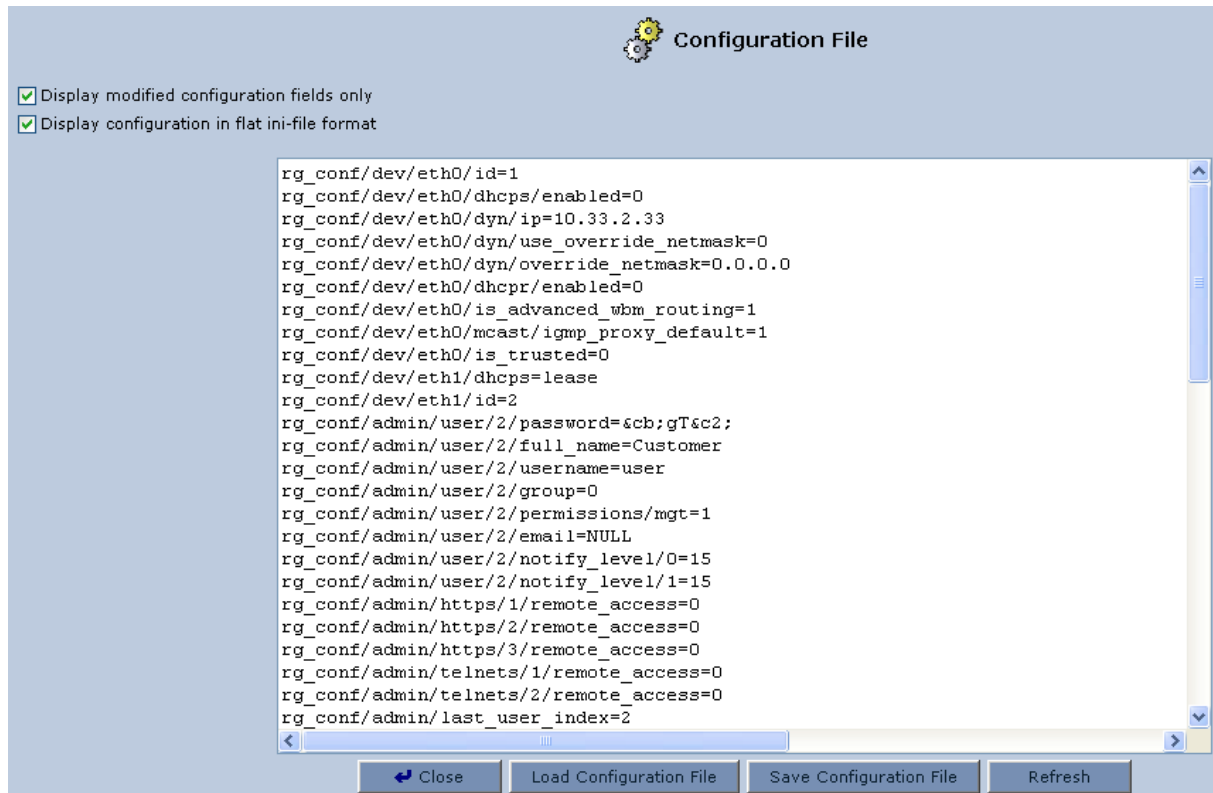
- Check NTP sync

2.3 Step 3: Save Modified Configuration Parameters

Save only modified configuration parameters (fields), as configured in Step 1, to an `.ini` configuration file. This `.ini` file will consist only of the parameters that you modified after factory default (not including factory default parameters).

➤ To save only modified parameters to an ini file:

1. Access the “Configuration File” screen (**Advanced** menu > **Configuration File**  icon):



2. Select the “Display modified configuration fields only” check box.
3. Select the “Display configuration in flat ini-file format” check box.
4. Click **Refresh**.
5. Click **Save Configuration File**, and then click **Save**, and save the `.ini` file to the desired folder on your PC; the file is saved as “MP20X.ini”.

2.4 Step 4: Rename ini File

The file name created in Step 3 is automatically assigned the name “MP20X.ini”. This file name must be renamed according to the configuration file name that you set for the parameter **rg_conf/rmt_config/url**.

For example, if you set the URL as follows:

```
rg_conf/rmt_config/url= http://100.100.1.2/MP20x_<MAC>.ini
```

then you must change the file name from “MP20X.ini” to “MP20x_<MAC>.ini”.

2.5 Step 5: Change Remote Update Configuration File Version Number

Once the MP-20x retrieves a configuration file from the remote server, it checks the value of the parameter **rmt_config/version** (refer to Section 2.1.1.1). Only if the new version value is higher than the version currently running on the MP-20x, does the MP-20x update its file.

The default of the parameter **rmt_config/version** is 0. Change the version value to 1.

```
rg_conf_set rmt_config/version = 1
```

2.6 Step 6: Save ini File to Server

Save the .ini configuration file to the HTTP/HTTPS/FTP/TFTP server.



Note: This file can also be used as a template for creating configuration files (placed on the server) per MP-20x unit.

2.7 Step 7: Verify ini File Retrieved from Server and Updated

Verify that the .ini file in Step 6 is retrieved from the server and updated.

1. To trigger the MP-20x to retrieve the configuration file, reboot the MP-20x.
2. After the MP-20x completes its reboot, it sends an HTTP **GET** command for the configuration file to the URL location defined for the parameter **rmt_config/url** parameter.
3. If the value of the parameter **rmt_config/version** is higher than the current version (as required), the MP-20x reboots again to update the new configuration file.
4. After the MP-20x recovers from the second reboot, access the Web-based management interface and verify that required parameters have been changed.

This file can also be used as a template for creating configuration files per MP-20x unit.

2.8 Step 8: Fill in Factory Defaults Questionnaire

Complete the *MP-20x Factory Defaults Questionnaire* (separate document).

2.9 Step 9: Send Files to AudioCodes

Send the following files to AudioCodes:

- The **.ini** file containing only the modified configuration fields (refer to Step 3, Section 2.3)
- *MP-20x Factory Defaults Questionnaire* Word file

Reader's Notes

Technical Application Note

MP-20x Mass Deployment Preparations

Version 2.6.x



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