Interalia
Multi-Site Content Manager (iMCM)

V35 User Manual

Delivering Messages: Simply. Clearly. Reliably.

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iMCM User Manual

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Table Of Contents

CHAPTER 1 | Introduction 1

The Interalia Multi-Site Content Manager 2
iProMOHs 2
The iMCM Server 3
Quick Start Overview 4

CHAPTER 2 | Installing, Configuring, and Using the Server Manager 7

Obtaining the Software 8
Installing the Software 8
Launching the Service Manager 13
Starting the Services 13
Configuring Networking Settings 15
Understanding IP Addresses 16
Checking the Device Server 18
Checking 18

Configuring Email Settings 18
Viewing Information About The iMCM 19
Further Information 19

CHAPTER 3 | Introduction to the iMCM Web Server/iMCM Configuration Server 20

Launching the iMCM Web Server/iMCM Configuration Server 21
The Tab Bar 23
Using the Configuration Tab 24
- Refresh Button 24
- Edit Button 24
- Toolbar 24
- View Filters 25
- Creating New Folders 25
- Cutting, Copying, Pasting, and Deleting Items 28
- Searching 28

More Information 29

Table Of Contents

CHAPTER 4 | iProMOH Setup and Configuration..... 30

Adding iProMOH information and Setting up Call Home Server address on the iMCM Web Server/ iMCM Configuration Server..... 31

Configuring the iProMOH V5 iMCM Mode 34

- Configuring iProMOH V5 using a mouse, keyboard and display connection to the device.....34
- Set Service Type.....35
- Set External Music Input.....37
- Set Audio Output.....39
- About.....39
- Wifi Enable.....39

Configure iProMOH V5 using the Configuration Text File (Config File) on a USB Drive..... 42

- Introduction.....42
- How to use a USB drive to Autoload a Config File and obtain the Diagnostics File.....42
- File Content.....43
- List of Keys.....43
- Configuration File Examples.....45
- Device ID.....46
- Group ID.....47
- key/=value.....48
- Order of the Setting Line.....49
- Example of the Use of Group ID.....50

Configuring Call Home Server address on iProMOH via Installer Website Application.....53

iProMOH LED Status.....59

iProMOH Checks in and Call Home Success 59

CHAPTER 5 | Uploading and Updating Media Files..... 61

Uploading Audio via the Service Manager 62

Uploading Audio via the iMCM Web Server/ iMCM Configuration Server..... 63

Updating Audio files with existing name via iMCM Web Server/iMCM Configuration Server 64

CHAPTER 6 | Creating Schedules 65

Schedule Overview..... 66

Override Priorities..... 66

Common Use Cases 66

Creating a New Message Schedule 67

Creating a New Priority Message Schedule 69

Creating a New Music Schedule 70

Table Of Contents

Creating a New External Music In Schedule 71
Other Examples 72
Creating a Store Folder 72
Adding Audio to the Store Folder 73
Creating a Regular Message Schedule 75
Creating a Regular Music Schedule 76
Creating an External Music in Schedule 76
Creating a Priority Message Schedule 77
Viewing the Schedule 77
Adding a Sub-Folder for a Different Location 78
Adding a Location-Specific Regular Message Schedule 79
Adding a Location-Specific Priority Message Schedule 80
Viewing the Location-Specific Schedule 80
Creating a New SuperCede Schedule 81
Viewing the Schedule 82

CHAPTER 7 | Reports 83

Types of Reports 84
iProMOH Schedule 84
iProMOH Check In 85
iProMOH Logs 85
User Logs 86
1-Setup Example 86

CHAPTER 8 | Contacts and Notifications 87

Configuring Notification Settings 88
Creating Contacts Lists 89
Creating Notifications 90

CHAPTER 9 | Administration and User Accounts 91

Using the Administration Tab 92
User Levels 92

CHAPTER 10 | Archiving and Logging 96

Archiving 97
Creating a backup file manually 97
Creating a backup file automatically 97
Restoring a backup file 97

Table Of Contents

Deleting a backup file....98
Configuring Logging Settings.... 98

CHAPTER 11 | Updates 99
Uploading new iProMOH Firmware 100
Deploying Firmware.... 101
Updating iMCM…….. 102

Appendix A | Notes 103

Appendix B | Other Ways To Locate iProMOH – V4's 104
Method One - Using a Direct Ethernet Connection 105
Method Two - Finding the iProMOH on the Network 106

Appendix C | Summary of IP Addresses 107

CHAPTER 1 | *Introduction*

This chapter introduces the iMCM.

In This Chapter

- “The Interalia Multi-Site Content Manager”
- “iProMOHs”
- “The iMCM Server”
- “Workflow”

CHAPTER 1 | Introduction

The Interalia Multi-Site Content Manager

The Interalia Multi-Site Content Manager (iMCM) allows organizations with multiple locations to easily create and manage recorded announcements, music-on-hold, and overhead music and messaging.

Whether you are managing a single unit or large, multi-site installations, iMCM simplifies messaging and music across geography, time zones and demographics. The iMCM file management system allows managers to apply content and schedules to global, regional, or local playlists, eliminating the need to manually replicate schedules, music or messages for each location.

iMCM provides easy-to-use features:

- Time and date message/music scheduling capabilities
- Priority message scheduling
- Ability to copy and paste schedules, groups or entire configurations
- Update single, multiple or all iProMOHs from any location
- Intuitive folder structure similar to Microsoft Windows
- Secure web access used to update user-specific folders
- Flexible scheduling of iProMOH check-in/update times
- Configurable back-up schedule
- Activity logging and notifications
- Detailed schedule reporting
- Bulk audio uploads

iProMOH

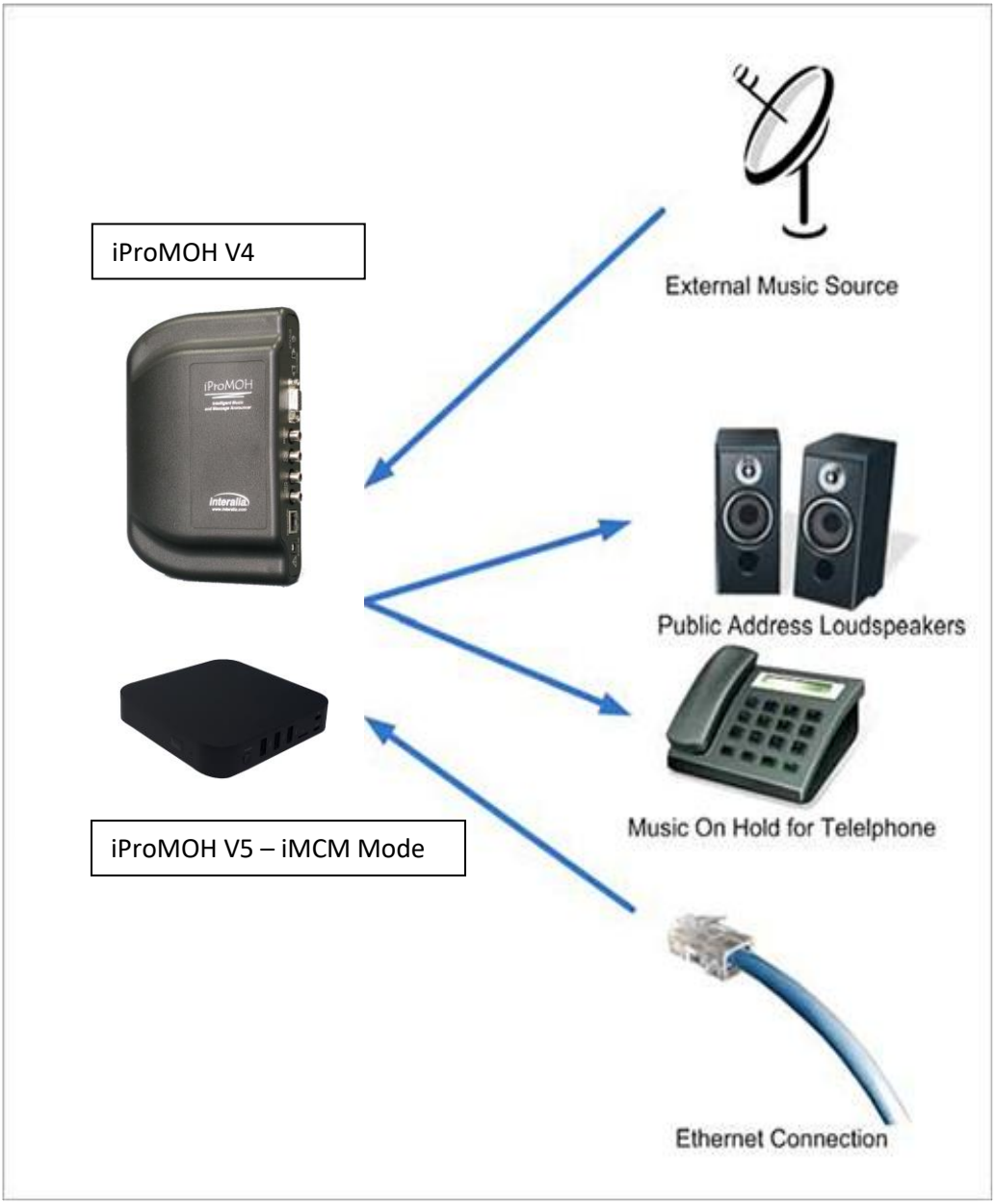
The Interalia iProMOH is a music and message announcer specifically designed for music-on-hold, background music, and overhead paging applications. The iProMOH supports all popular audio file formats.

- Supports two independent output channels. So, for example, you can use one output channel for a public address system and the other for music-on-hold for a telephone line. You can have different music and messages on each channel.
- Accepts one input channel from an external licensed music feed.
- Communicates to iMCM via Network.

The iProMOH iMCM comes in two form factors:

(1) iProMOH V4
(2) iProMOH V5

The different form factors are shown in the following pages. In addition, the Set Up and Configuration is different and will be detailed in Chapter 4.

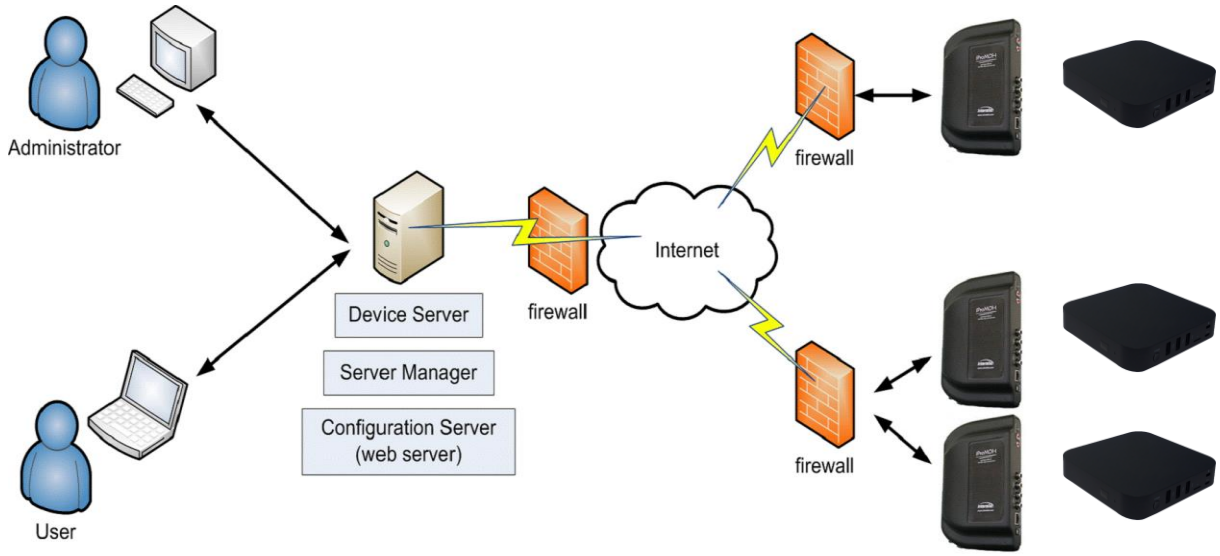


The iMCM Server

The iMCM Server contains three main components:

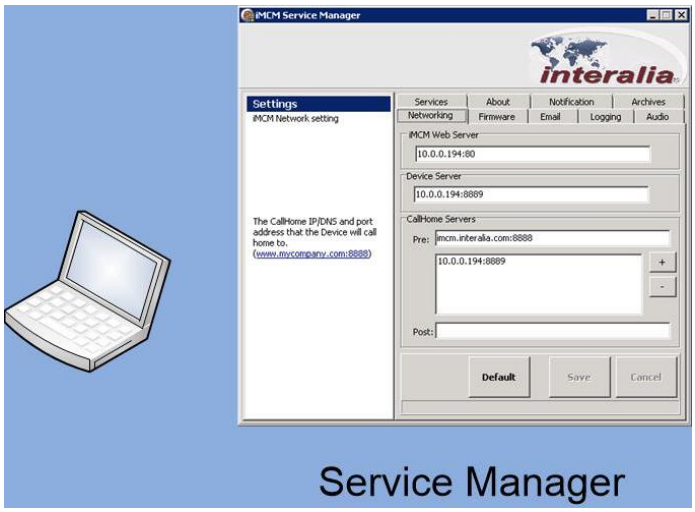
- The **Service Manager -** configures the Server and Services.
- The **Device Server -** communicates with the iProMOHs in the field.
- The **iMCM Web Server/iMCM Configuration Server -** acts as a web interface to create configurations for iProMOHs

Utilizing a web interface (Firefox or Internet Explorer), multiple users can remotely configure the system

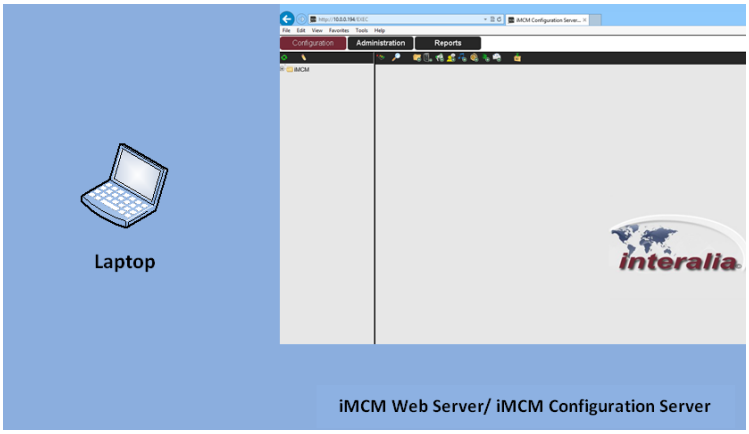


Quick Start Overview

1. Install the iMCM software on the server or workstation. Configure the Service Manager.
   See Chapter 2, “Installing, Configuring, and Using the Service Manager”.



2. Open a web browser and open the iMCM Web Server/iMCM Configuration Server web page.
   See Chapter 3, “Introduction to the iMCM Web Server/iMCM Configuration Server”.



3. Set up the iProMOHs.
   See Chapter 4, “iProMOH Setup and Configuration”.





4. Use the Configuration Server to configure the iProMOHs.

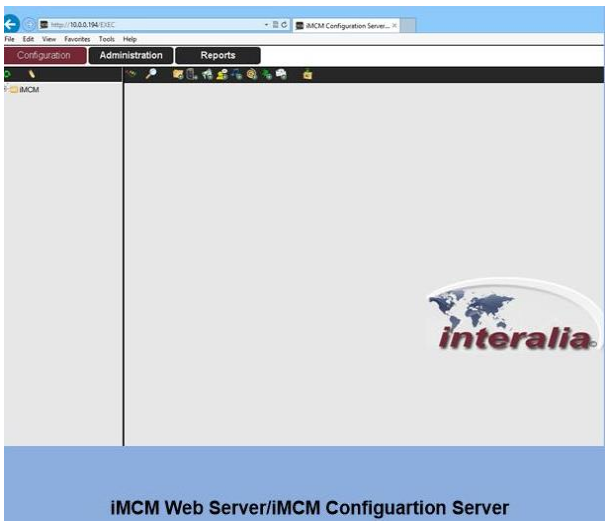
   See Chapter 4, “iProMOH Setup and Configuration”.



5. Upload audio files (using either the Service Manager or the Configuration Server).

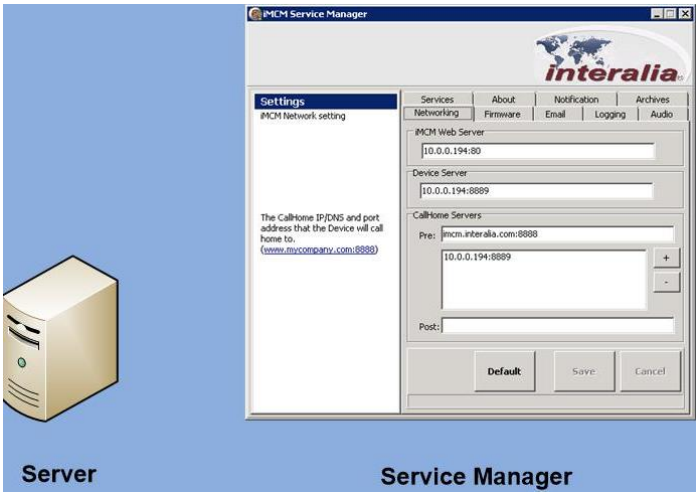
   See Chapter 5, “Uploading and Updating Media files”.

6. Use the iMCM Web Server/iMCM Configuration Server to:
   - Create schedules - Chapter 6, “Creating Schedules”
   - View Reports – Chapter 7, “Reports”
   - Configure notifications - Chapter 8, “Contacts and Notifications”.
   - Assign and manage login names and passwords. Create user accounts and user access rights if necessary. - Chapter 9, “Administration and User Accounts”.



CHAPTER 2 | *Installing, Configuring, and Using the Service Manager*

This chapter describes how to install, configure, and use the Service Manager.



In This Chapter

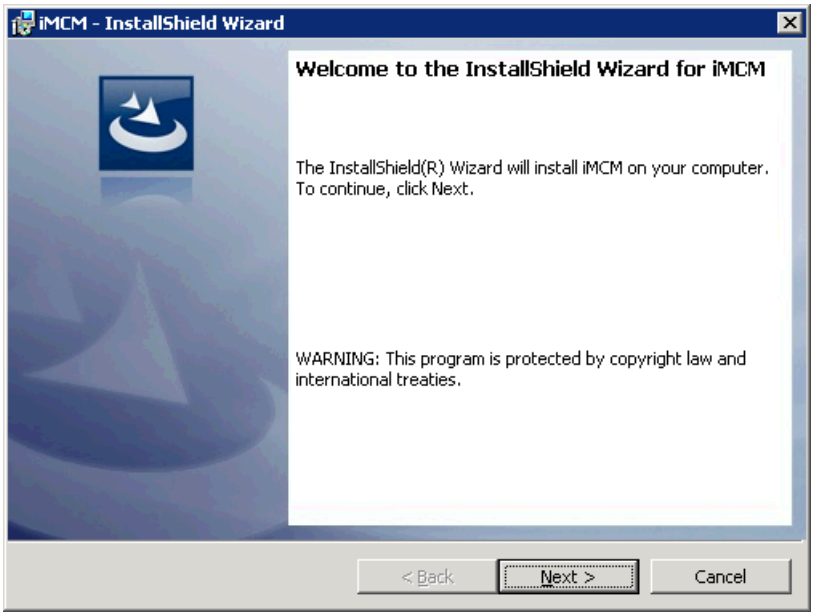
- “Obtaining the Software”
- “Installing the Software”
- “Launching the Service Manager”
- “Starting the Services”
- “Configuring Networking Settings”
- “Understanding IP Addresses”
- “Checking the Device Server”
- “Configuring Email Settings”
- “Viewing Information About The iMCM”
- “Further Information”

Obtaining the Software

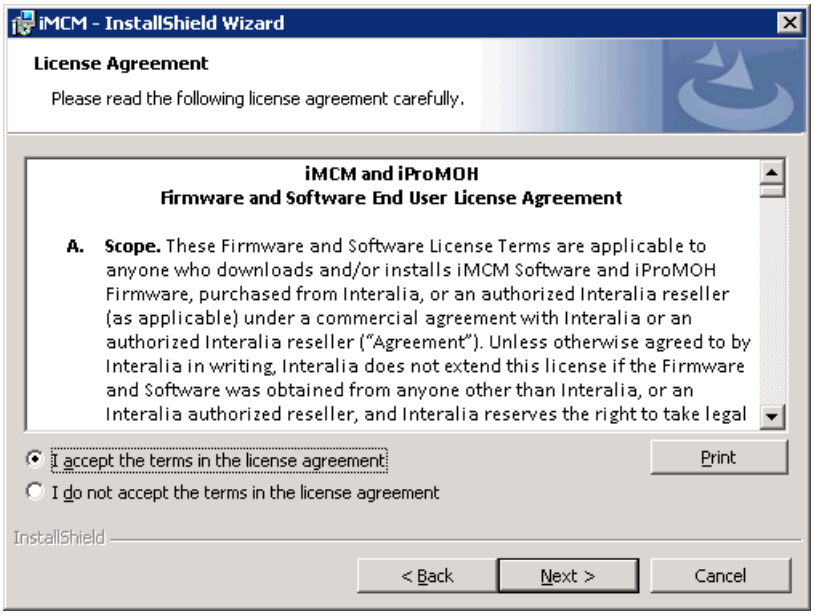
Please contact orders@interalia.com to obtain the iMCM software.

Installing the Software

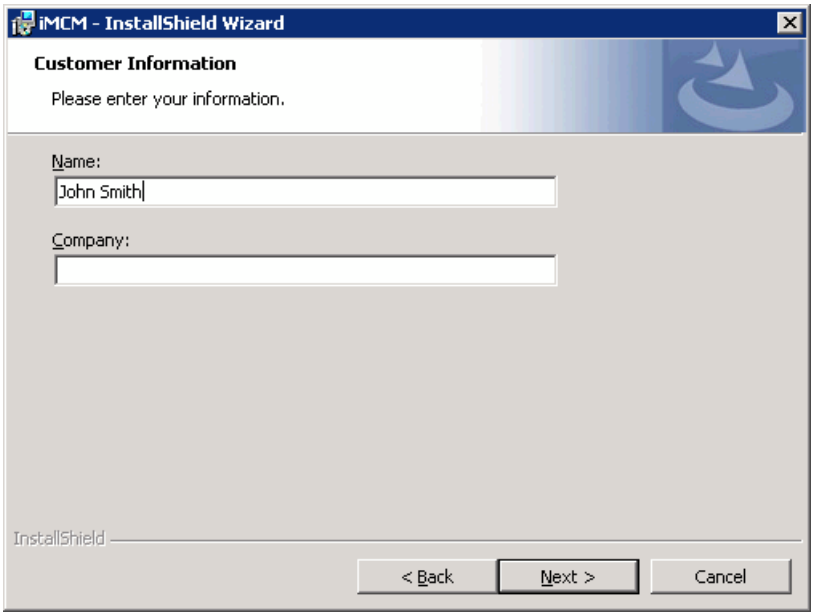
1. Run the setup program iMCM `Setup.exe`



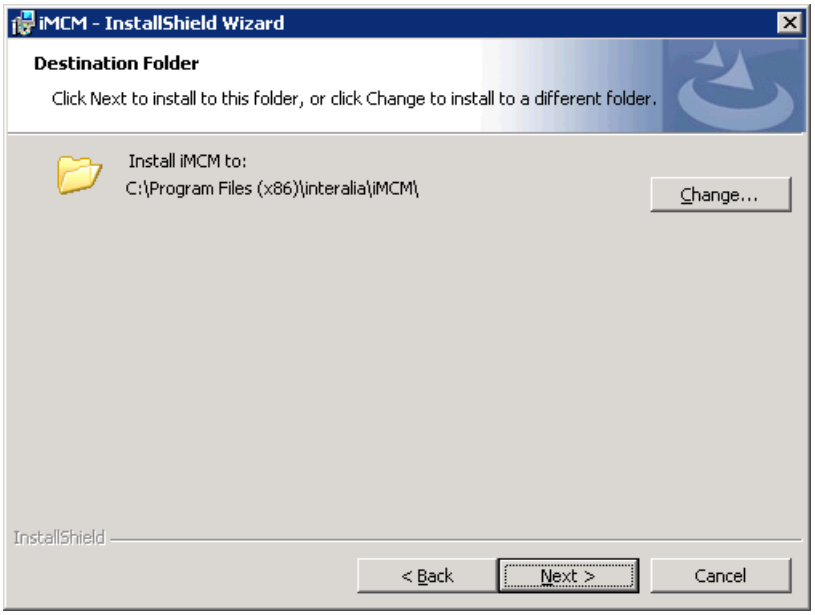
a. Press **Next**.



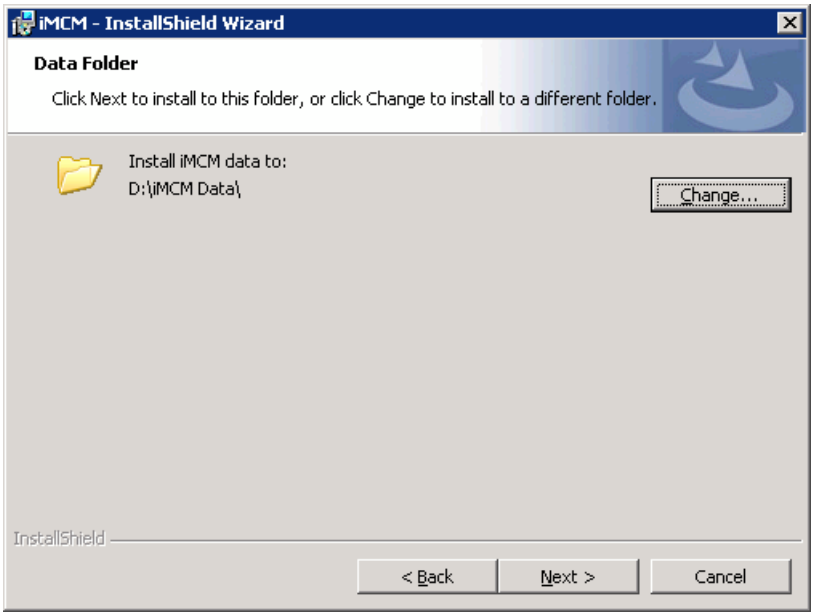
b. Agree to the license agreement, and click **Next**.



c. Enter your name and organization. Click **Next**.



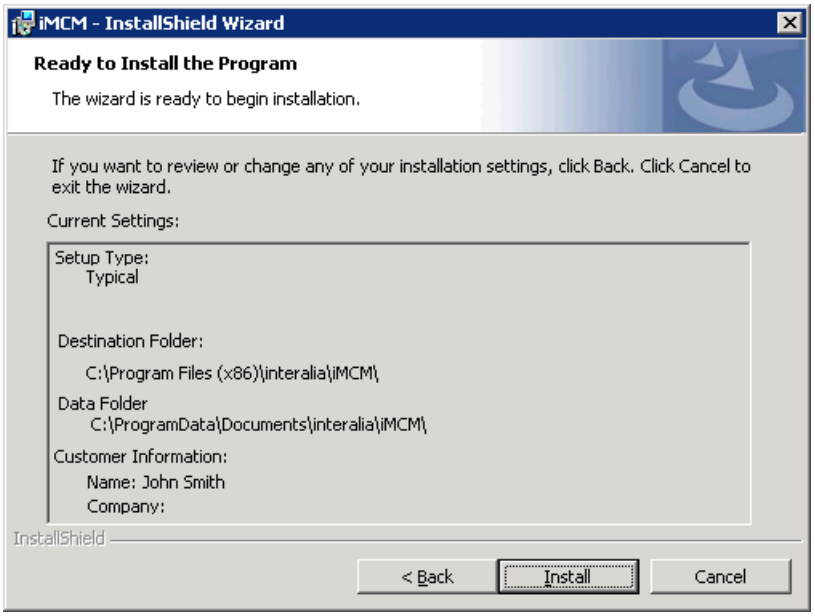
d. Optionally, change the destination folder. Click **Next**.



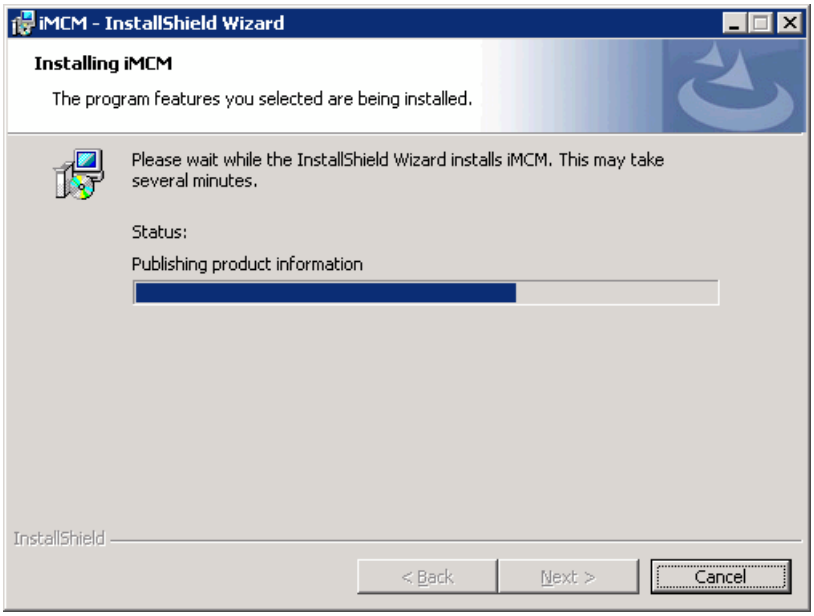
e. Choose **Typical** or **Custom**, and click **next**. (**Typical** Installation is the Default Installation Type – This has "1-Setup Example Folder" by default (It has some sample audio files and schedules.))

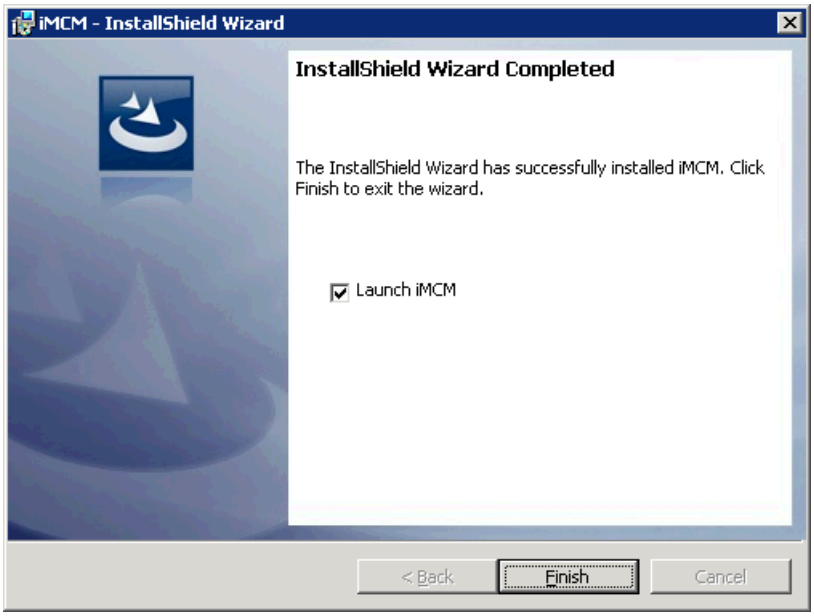


f. Review the settings and click **Install**.



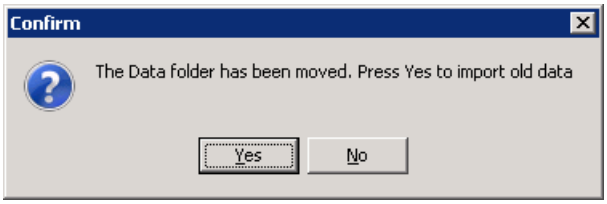
The installer will install the software.





i. By Default, the application is checked to automatically launch iMCM Service Manager. Click **Finish**.

If you do an upgrade of iMCM you may see the following message window. Select “YES” to import existing data.



Launching the iMCM Service Manager



The installation process creates an icon on the desktop called **iMCM Service Manager**.

Double-click that icon to open the Service Manager. (Or, choose **Start** > **Programs** > **Interalia** > **iMCM** > **iMCM Service Manager**.)



Services tab - Starting the Services

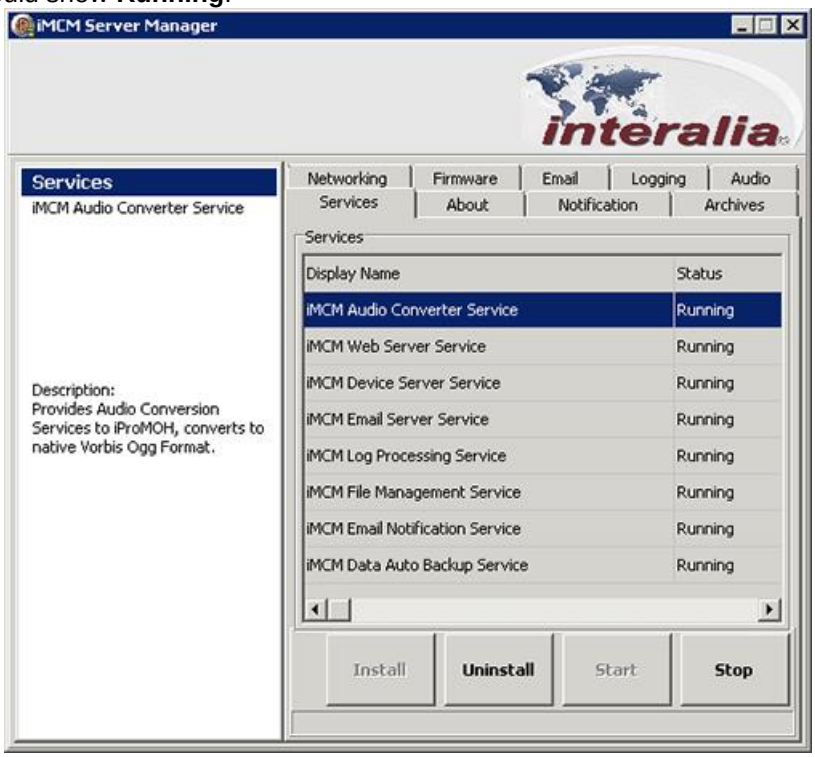
The iMCM uses the following services:

- **Audio Converter Service** — converts audio files to the format used internally.
- **Web Server Service** — runs the Configuration Server web client.
- **Device Server Service** — provides configuration services to connected iProMOHs.
- **Email Server Service** — provides outgoing email.
- **Log Processing Service** — processes the iMCM logs.
- **File Management Service** — provides integrity checking and cleanup services for the iMCM files.
- **Email Notification Service** — provides notification of iProMOH issues.
- **Data Auto Backup Service** — provides automatic backup of iMCM data.

To start the services:

1. In the Service Manager, start the iMCM services:
   a. Select the **Services** tab.
   b. For any service that shows **Not Installed** in the **Status** column, click **Install**. c. For any service that shows **Stopped** in the **Status** column, click **Start**.

Now all services status should show **Running**.



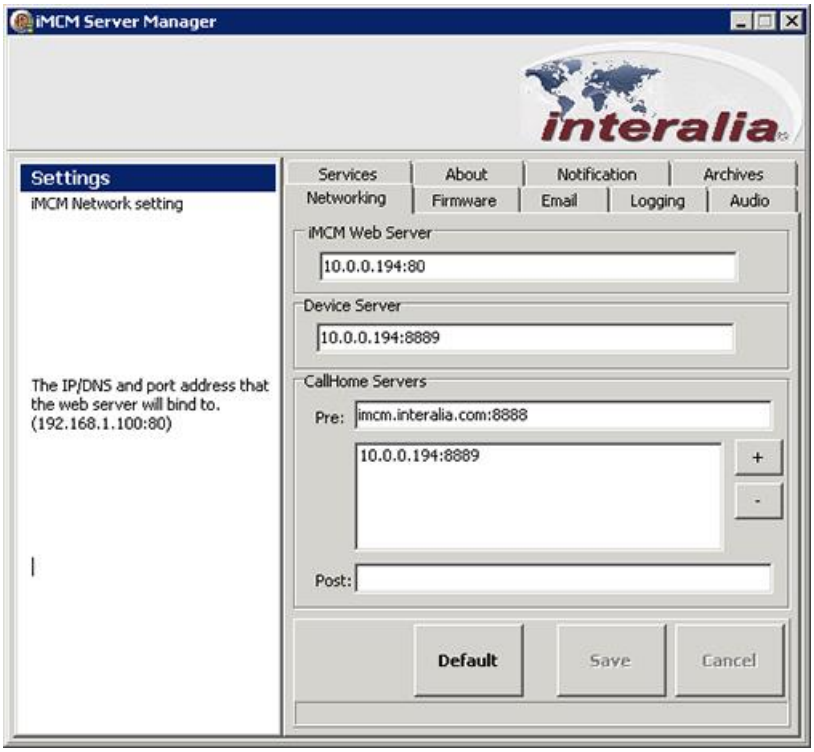
Note: To Install, Uninstall, Start or Stop all the services at the same time. Select **About** tab first and then Double click the image displayed on the **About** tab then go back to **Services** tab and select the Install, Uninstall, Start or Stop button

Notes *1) It is recommended that you leave all these services running.*
*2) If the address or port for the iMCM Web Server on the **Networking** tab is changed, the iMCM will prompt you to restart the Web Server Service.*
3) It is recommended to only uninstall and install the services on the advice of Interalia Technical Support.

Networking tab - Configuring Networking Settings

To configure the Networking settings:

1. In the Service Manager, select the **Networking** tab.



2. Configure the following settings.

   IP address and port numbers are populated from the PC that iMCM is installed on.

   For example, `10.0.0.194:80`

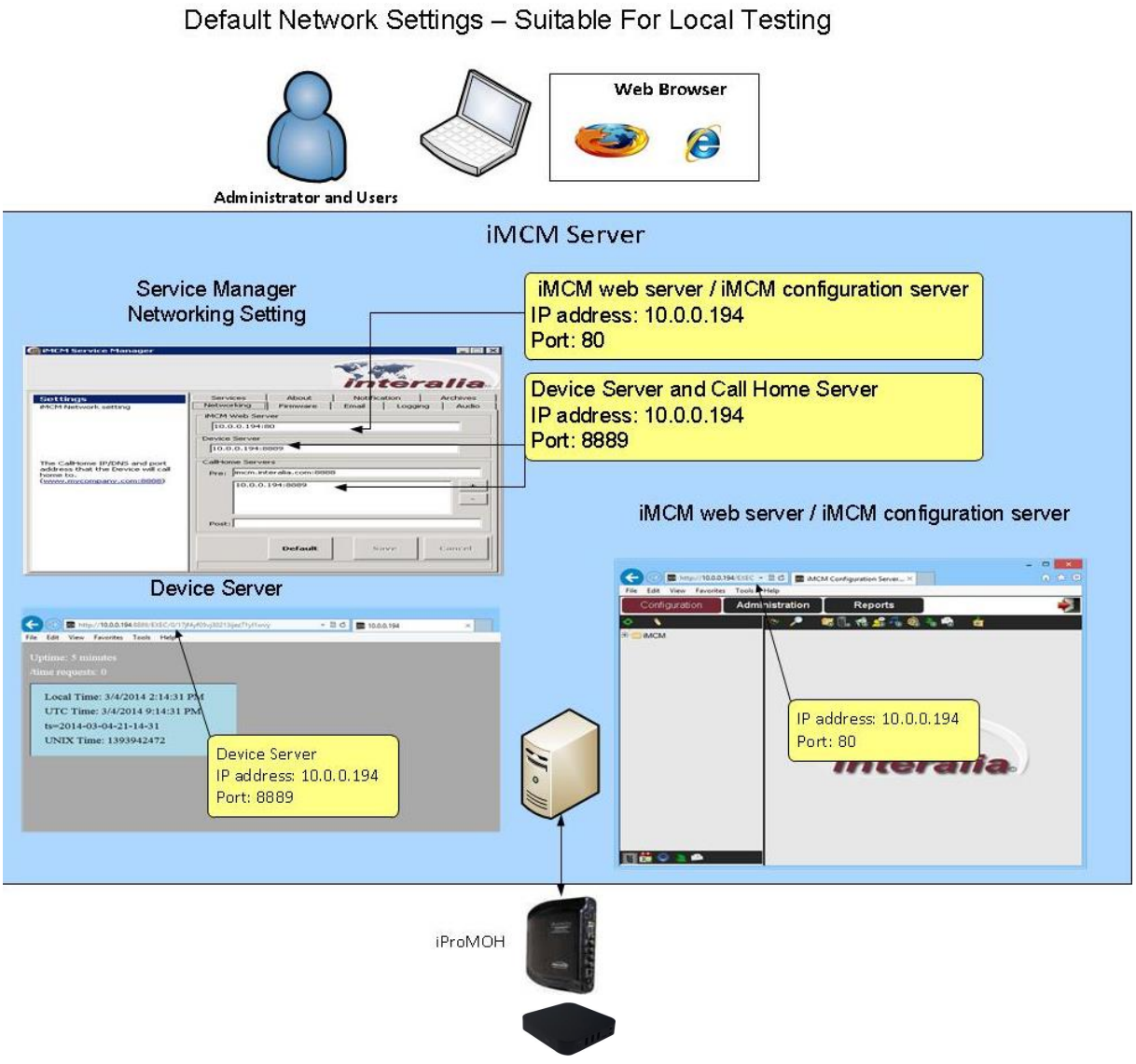
Setting	Function
iMCM Web Server	The IP address and port number of the Web Server. See “Understanding IP Addresses”
Device Server	The IP address and port number of the Device Server. See “Understanding IP Addresses”
CallHome Servers	The servers that the iProMOHs call home to. This address will be the same as the Device Server address for iProMOHs to call into that specific instance of iMCM. The IP address and port number of the server to call home to. See “Understanding IP Addresses” Normally, there should only be one address here. You can add multiple addresses if you need to re-route the iMCM to another iMCM server.
Pre CallHome server	The default initial address. Used for Interalia support purposes if required.
Post	There is no address configured by default. This is for future use.

3. Click **Save** to save the settings (or click **Cancel** to discard changes or **Default** to revert to the default settings).

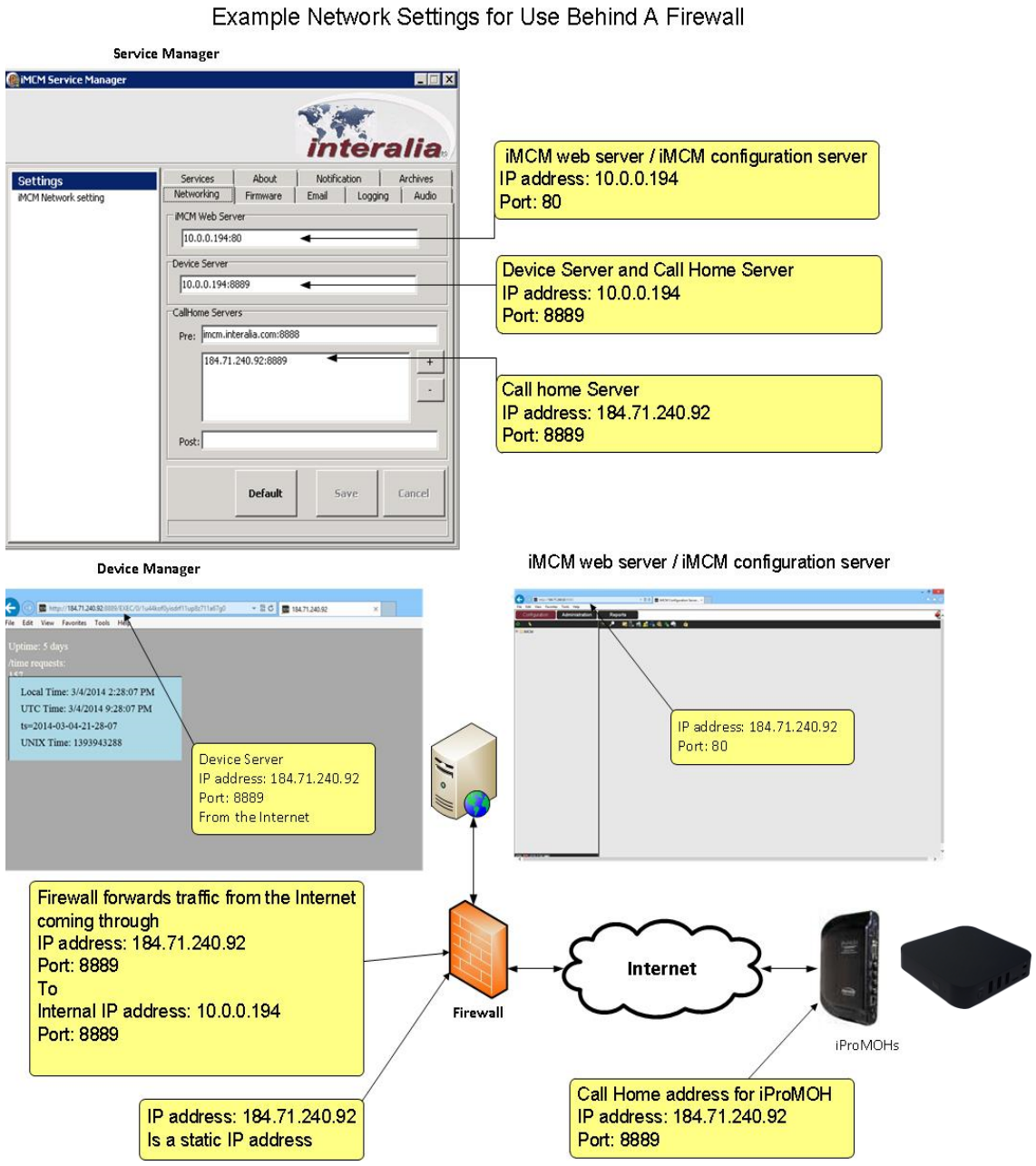
Understanding IP Addresses

The IP addresses and ports for the Web Server and Device Server can be any unused addresses and ports on your network.

The following is an example of network settings (the ones you get if you click Default). They are suitable for testing, where all components (including the iProMOHs) are on the same local network.



In general, the IP address for the Device Server must be a static address (so that the iProMOH can always use the same address to call home). Set up port forwarding on your firewall to forward that static address to the local address of the Device Server. The following diagram shows a case where the iProMOH is outside the firewall.



Checking the Device Server

To ensure that the Device Server is running:

- In a web browser outside the firewall, open the URL:

  `http://device_server:port`

  Where *device_server* and *port* are the IP address and port of the Device Server as entered in the Networking Settings.

  For example:

  http://184.71.240.92:8889

The web page shows the current status of the Device Server.

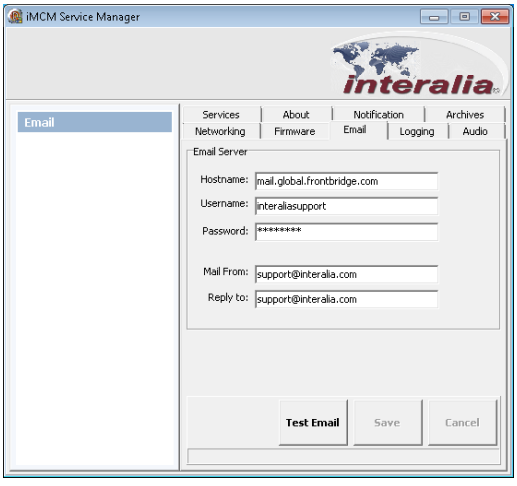
Email Tab - Configuring Email Settings

To configure the email settings:

1. Select the **Email** tab.
2. Configure the following settings:

Setting	Function
Hostname	The name of the mail server provided by your ISP provider. (eg. mail.server.com)
Username	The username for the email account if required by your ISP mail provider. Leave blank if not required by your mail provider.
Password	The password for the email account if required by your ISP mail provider. Leave blank if not required by your mail provider.
Mail From	The email address that the email will be sent from.
Reply To	The email address that any replies to the emails should be sent to.

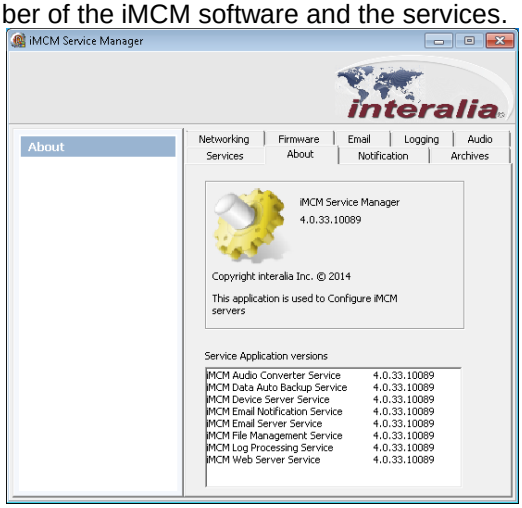
3. Click **Save** to save the settings, **Cancel** to discard changes, or **Default** to revert to the default settings.
4. Click **Test Email** to check the configured email settings working or not.



About tab - Viewing Information About The iMCM

To view information about the iMCM:

1. Select the **About** tab.
2. This screen shows the version number of the iMCM software and the services.



Further Information

Note *For information about other configurations that can be done in the Service manager, see:*
Audio Tab - *Chapter 5, "Uploading and Updating Media files"*
Notification Tab - *Chapter 8, "Contacts and Notifications"*
Archives Tab - *Chapter 10, "Archiving and Logging"*
Logging Tab - *Chapter 10, "Archiving and Logging"*
Firmware Tab - *Chapter 11, "Updates"*

CHAPTER 3 | *Introduction to the iMCM Web Server/iMCM Configuration Server*



This chapter provides an introduction to the iMCM Web Server/iMCM Configuration Server.

In This Chapter

- "Launching the "iMCM Web Server/iMCM Configuration Server"
- "The Tab Bar"
- "Using the Configuration Tab"
  - "Creating New Folders"
  - "Cutting, Copying, Pasting, and Deleting Items"
  - "Searching"
- "More Information"

Launching the iMCM Web Server/iMCM Configuration Server

To access the iMCM Web Server/iMCM Configuration Server:

- Launch a web browser and open the following URL:

  `http://IP address:port`

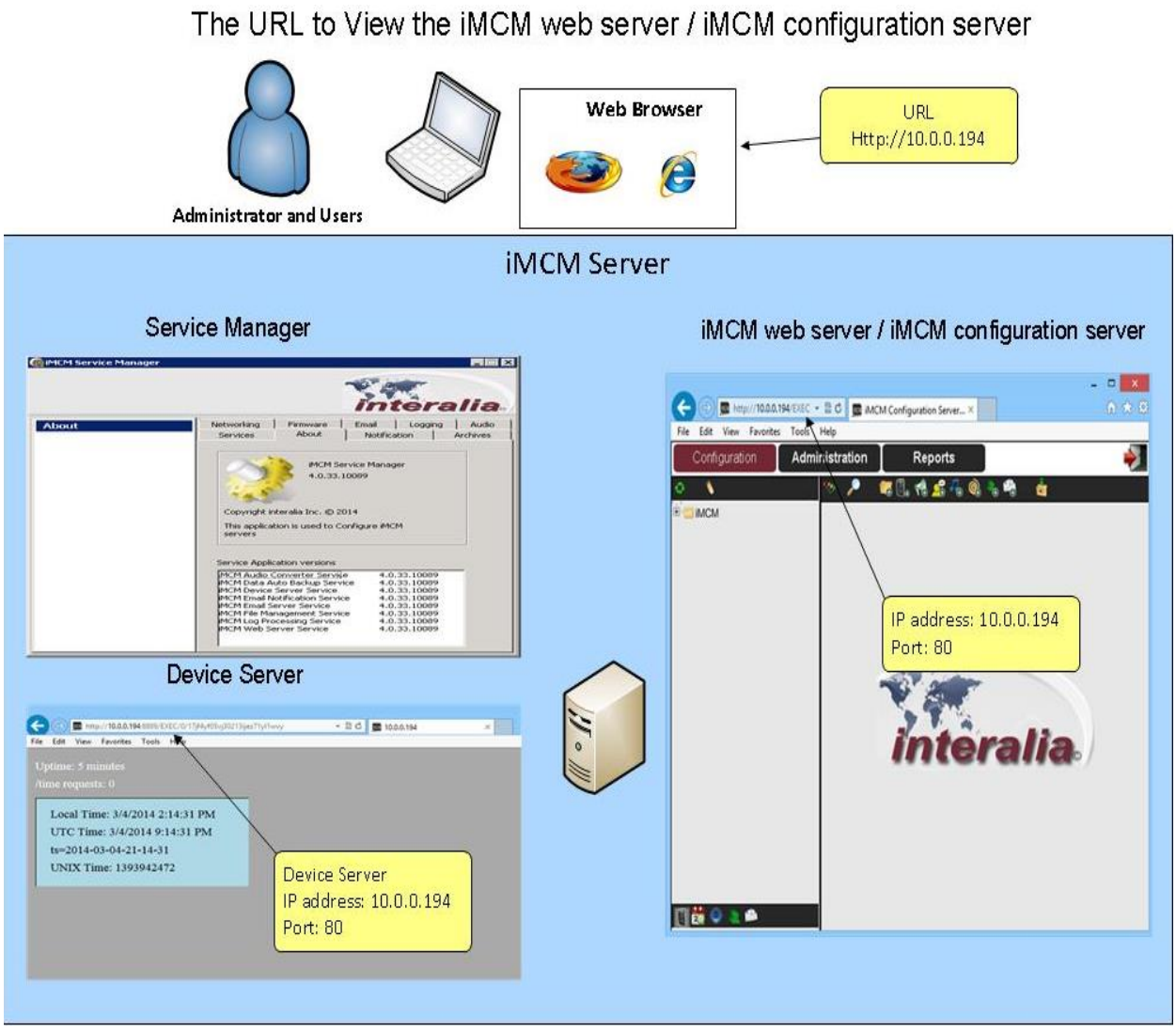
  Where *`IP address and Port number`* are the iMCM Web Server's IP address and port number from the Networking tab in the iMCM Service Manager.
  By default, the Port number is 80, this is the default port number for a Web Server. So if the iMCM Web Server's port number is not changed from 80, then just enter the IP address on the browser.

  For example:
  http://10.0.0.194

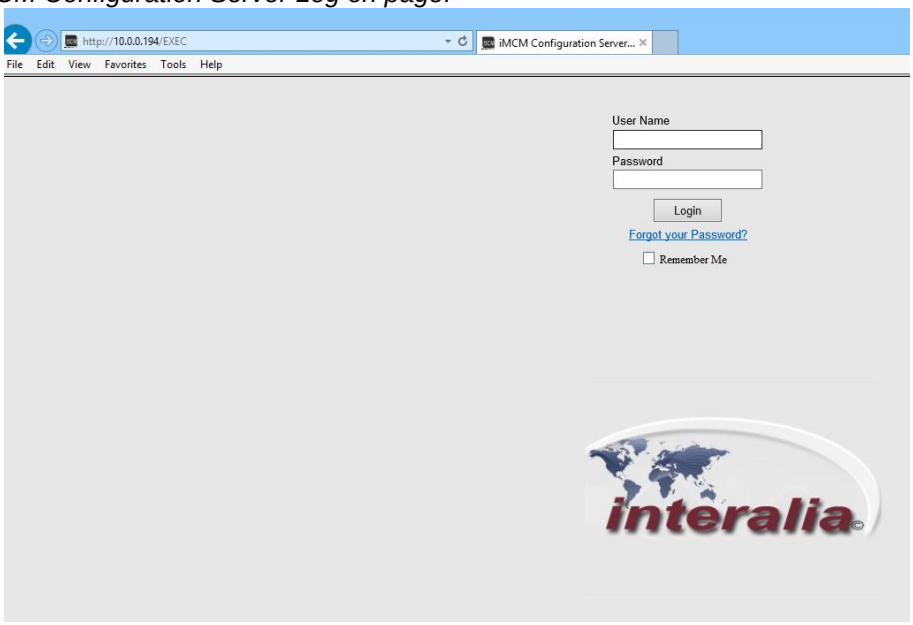
  If the iMCM Web Server's port number is different than 80, then enter both the IP address and the port number on the browser.

  For example:
  http://10.0.0.194:8888

For more information on IP addresses and ports, see "Configuring Networking Settings" on Chapter 2. See also Appendix C, "Summary of IP Addresses".


The URL to View the iMCM web server / iMCM configuration server
Administrator and Users
Web Browser
URL
Http://10.0.0.194
iMCM Server
Service Manager
iMCM web server / iMCM configuration server
Device Server
Local Time: 3/4/2014 2:14:31 PM
UTC Time: 3/4/2014 9:14:31 PM
ts=2014-03-04-21-14-31
UNIX Time: 1393942472
Device Server
IP address: 10.0.0.194
Port: 80
IP address: 10.0.0.194
Port: 80

iMCM Web Server/iMCM Configuration Server Log on page:





Success Checkpoint

If you see the above login screenshot for the iMCM Web Server/iMCM Configuration Server, then the network configuration is correct. If you don't see the login screenshot, recheck your firewall and network settings.

Enter User name and password (By default both are "admin") to log into the iMCM Web Server/iMCM Configuration Server. You will see the following page.

The Tab Bar

The iMCM Web Server/iMCM Configuration Server has three tabs:

- **Configuration** — to configure music, messages, iProMOHs, and schedules.

  See "Using the Configuration Tab".

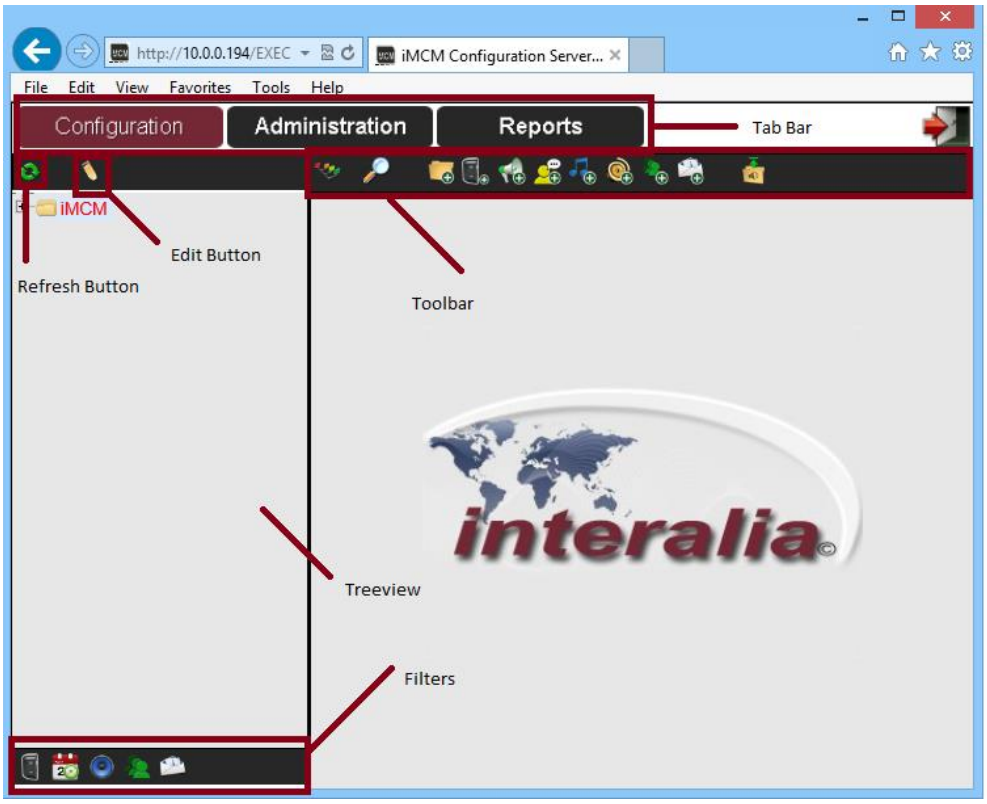
- **Administration** — to add, remove, and modify user accounts who uses iMCM Web

  Server/iMCM Configuration Server. See Chapter 9, "Administration and User Accounts".

- **Reports** — to view reports about iProMOH check-ins, schedules, logs, and user activity on the iMCM Web Server/iMCM Configuration Server.

  See Chapter 7, "Reports".

Using the Configuration Tab



Refresh Button

This button refreshes the treeview. 

Edit Button

This button enables you to copy, paste and delete items in the treeview. 

For more information, see “Cutting, Copying, Pasting, and Deleting Items”

Toolbar

The toolbar provides the main functions.

Button	Function
	Toggles visibility of the treeview.
	Searches for folders, iProMOHs, schedules, audio files, or contacts. See “Searching” on page 26.

Button	Function
	Creates a new folder in the treeview. See “Creating New Folders”.
	Configures a new iProMOH. See Chapter 4, “iProMOH Setup and Configuration”.
	Creates a new priority message schedule. See Chapter 6, “Creating Schedules”.
	Creates a new message schedule. See Chapter 6, “Creating Schedules”.
	Creates a new music schedule. See Chapter 6, “Creating Schedules”.
	Creates a new external music schedule. See Chapter 6, “Creating Schedules”.
	Creates a new contacts list. See Chapter 8, “Contacts and Notifications”.
	Creates a new notification. See Chapter 8, “Contacts and Notifications”.
	Uploads audio files. See Chapter 5, “Uploading and Updating Media files”.

View Filters

The view filter buttons show or hide classes of items in the tree view. For example, if you have a lot of audio files you may wish to use the Audio Filter button to hide them when you are not working with them.

Filter Button	View/Hide
	iProMOHs
	schedules
	audio files (music and messages)
	contacts
	notifications

Creating New Folders

Folders are used to set up configurations. iProMOHs, audio files and schedules can be assigned into a folder.

Sub-folders can be created for additional configurations within a parent folder.

Settings (eg. time zone, check in interval) on the folders will be applied to sub-folders by default unless otherwise programed.

To create a New Folder in the treeview:

1. Click the **New Folder** button  .

2. Configure the following information:
   - **Display Name** — name that will be shown in the treeview.
   - **Description** — optional description.
   - **iProMOH Defaults** — Default settings for all the iProMOHs in this folder. (These defaults can be overridden. See Chapter 4, " iProMOH Setup and Configuration".)
     - **CallHome Server** — IP address and port of the server to call home. See "Understanding IP Addresses" on Chapter 2. See also Appendix C, "Summary of IP Addresses".
     - **Time Zone** — time zone for the iProMOH. This time is used for all schedules run by this iProMOH.
     - **Stale Date** — date when this iProMOH should stop serving messages and music.
     - **Check In Interval** — how often the iProMOH should check in with the CallHome server. (By Default - 24 hours)
   - **Firmware** — Choose **Inherit (Locked)** or **Lock**. (By Default – Lock)

     If the firmware settings are set to **Inherit (xxxx)**, then the iProMOH will inherit the firmware settings set at a parent level folder. This provides an easy way to propagate the firmware settings to a large number of iProMOHs.

     If the firmware is set to **Lock or Inherit (Locked)** then the firmware on the iProMOH will not be updated during Check in.

     For more information on updating firmware, see Chapter 11, "Updates".

Note *Check our Secure FTP site for latest firmware release*

     For more information about updating the firmware, see "Uploading New iProMOH Firmware" on Chapter 11.
   - **Maintenance Cycle** — maintenance cycle restarts the iProMOH on a regular basis.
     Choose **None (By Default)**, **Nightly**, **Weekly**, or **Monthly**.
     - **Nightly** restarts the iProMOH once a night, between 1am and 6am.
     - **Weekly** restarts the iProMOH once on Sunday, between 1am and 6am.
     - **Monthly** restarts the iProMOH at the end of the monthly between 1am and 6am.

3. Optionally to save time and change multiple iProMOHs simultaneously, Select the Propagate button  to the right of the setting to propagate the changes to all sub folders and to all iProMOHs within those folders.

   The following Settings can be propagated:

   - Call Home Server
   - Time Zone
   - Stale Date
   - Check In Interval

4. Click the **Save** button  to save the configuration or the **Reload** button  to refresh the screen.
5. Click the **Close** button  to close the page.

Inheritance

When you create a subfolder below another folder in the tree view, the subfolder inherits all the items from the parent folders. For example, when you create a Message/Music schedule in a subfolder, it has access to all the Message/Music files in all the parent folders. This lets you keep common items in one place and reuse them.

This also means that an iProMOH in a subfolder will play all the Message schedules in the subfolder and all the Message schedules in all parent folders (unless the schedules have exactly the same name, in which case it will play the copy that is lowest in the tree). This lets you define general schedules at a higher level and override them or supplement as necessary for specific locations.

Note: When you create a Message/Music schedule in subfolder, it has access to all the Message/Music files in all the parent folders as well as in its own sub folders.

For an example, see Chapter 6, “Creating Schedules”

Cutting, Copying, Pasting, and Deleting Items

When the Edit button is pressed, checkboxes appear beside all the items in the treeview and cut, copy, paste, and delete buttons appear to operate on the checked items.



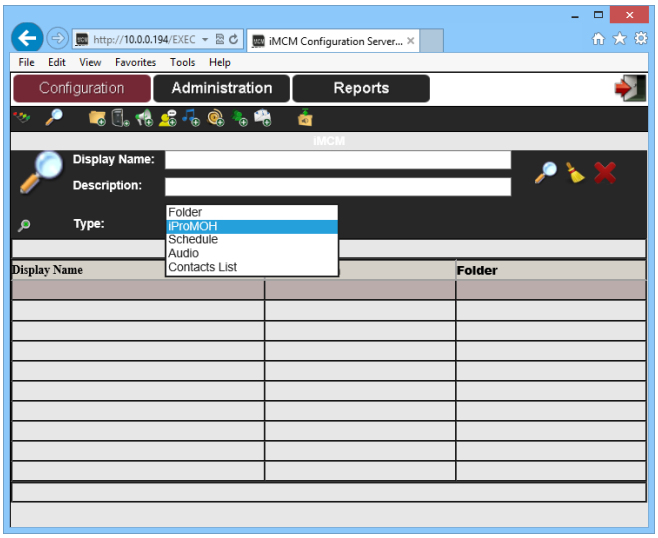
Button	Function
	Toggles visibility of the edit buttons.
	Cuts checked item(s).
	Copies checked item(s).
	Pastes checked item(s).
	Deletes checked item(s).

- You can copy a complete folder and duplicate it elsewhere in the tree. This copies all the items inside it (audio files, schedules, iProMOHs, and subfolders).
- If you *copy* and paste an iProMOH, the copied iProMOH will have a blank MAC address. This is because these addresses must be unique.
- If you *cut* and paste an iProMOH, the pasted iProMOH will keep the same MAC address. This is because cut and paste just moves the iProMOH from one location to another in the tree.

Searching

To search for items in the iMCM Web Server/iMCM Configuration Server:

1. Press the **Search** button in the main toolbar .
2. In the **Type** dropdown menu, choose what to search for:
   - Folder
   - iProMOH
   - Schedule
   - Audio
   - Contacts List
3. Enter the text to search for in the **Display Name** and/or **Description** fields.
4. Click the Search button beside the Type dropdown menu.



5. To go to an item, select the item in the results list and press the **View/Edit Selected** button above the results list. 
6. Optionally, click the **Clear** button  (beside the Type dropdown menu) to clear the search terms.
7. Click the **Close** button  (beside the Type dropdown menu) to close the search page.

More Information

More information about the iMCM Web Server/iMCM Configuration Server can be found in these chapters:

- Chapter 4, “iProMOH Setup and Configuration”.
- Chapter 5, “Uploading and Updating Media files”.
- Chapter 6, “Creating Schedules”.
- Chapter 7, “Reports”.
- Chapter 8, “Contacts and Notifications”.

CHAPTER 4 | *iProMOH Setup and Configuration*

This section describes iProMOH Setup and Configuration:

In This Chapter

- “Adding iProMOH information and Setting up Call Home Server address on the iMCM Web Server/iMCM Configuration Server”
- “Configuring Call Home Server on the iProMOH V5”
- “Configuring Call Home Server on the iProMOH V4 via Installer Website Application”
- “iProMOH Checks in and Call Home Success

Note: The iProMOH iMCM is available in 2 hardware form factors:

(1) iProMOH V5



(2) iProMOH V4

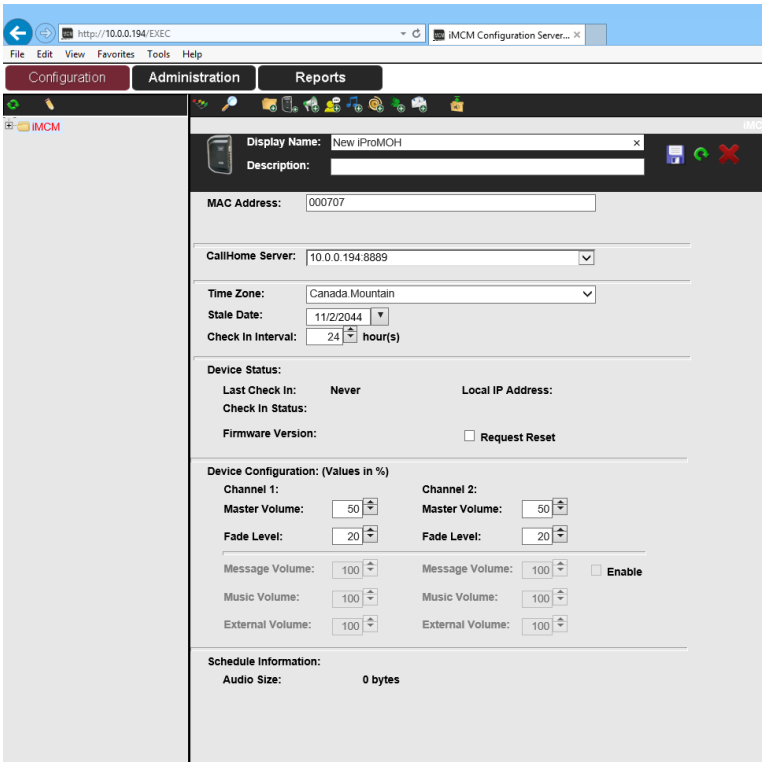


Adding iProMOH information and Setting up Call Home Server address on the iMCM Web Server/iMCM Configuration Server

To configure new iProMOH information:

1. In the treeview, select the folder where you want the iProMOH to be placed.
2. Click the **New iProMOH** button in the toolbar .

After selecting the “New iProMOH” button in the toolbar, the following page will be displayed:



3. Configure the following information:
   - **Display Name** — name for the iProMOH as it will appear in the treeview.
   - **Description** — optional description, which will display as a “mouse-over” or hint in the treeview.
   - **MAC Address** — 12-character MAC address of the iProMOH. You can find this on the back of the iProMOH.

Note *It is very important to enter the correct MAC address as it is the unique identifier of the physical unit on the iMCM.*

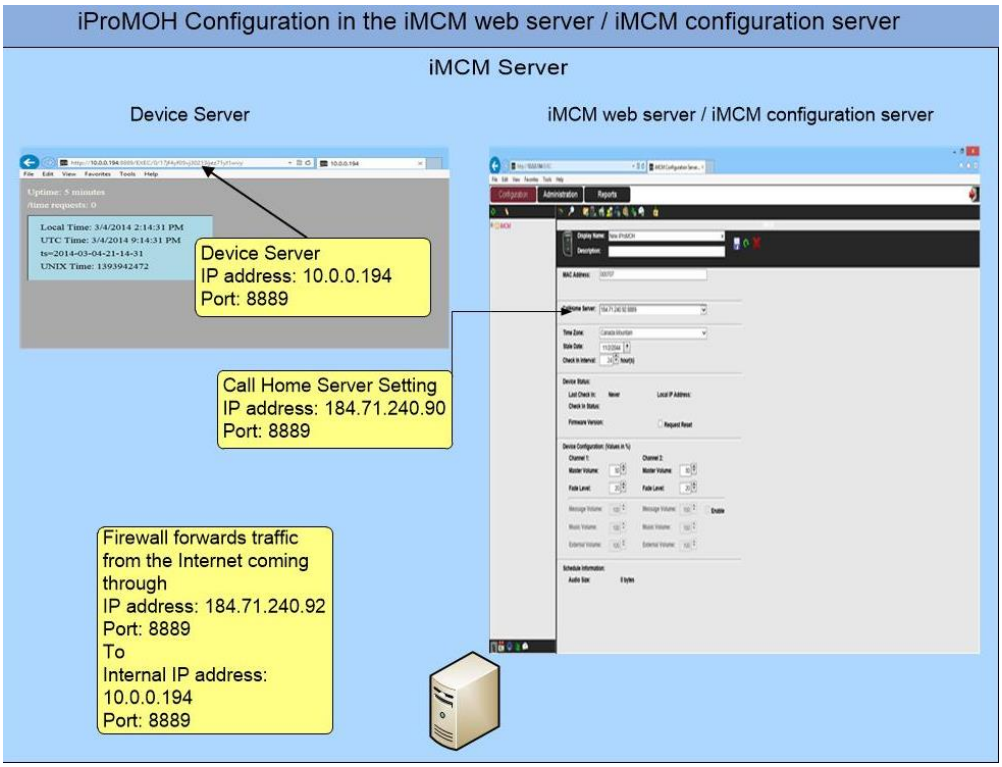
You must correctly setup the CallHome Server IP address to allow the iProMOH to communicate with the iMCM Server.

- **CallHome Server**

  Every iProMOH regularly “calls home” to check in with its iMCM Server. (How often it should call home can be configured through the iMCM Web Server/iMCM Configuration Server) When the iProMOH calls home, it downloads updates for the audio files and schedules.
  (An iProMOH can also be forced to call home by depressing the twin volume buttons simultaneously. This is typically used by the installer to immediately download the configuration.)

  The CallHome Server IP address must match the address entered for the CallHome Server entered in the Network settings on the Service Manager. See “Understanding IP Addresses” on Chapter 2.

  You can either select the IP address/port number, or choose Inherit, in which case the setting will be taken from the parent folder.



Time Zone — the time zone used by the iProMOH.

The deployed iProMOH and the iMCM Server may be located in different time zones. The times used in the schedules are based on the iProMOH local time.

Note *The iProMOH automatically changes its time to account for Daylight Savings Time.*

- **Stale Date** — The date when this iProMOH should stop playing Audio. This can be used to enforce contractual agreements with customers. You can be notified when the stale date is approaching.

- **Check In Interval (By default – 24 Hours)** — the interval (in hours) when the iProMOH should contact the Service Manager to get new information (schedules, audio files, etc.). You can be notified if the iProMOH misses a check in.

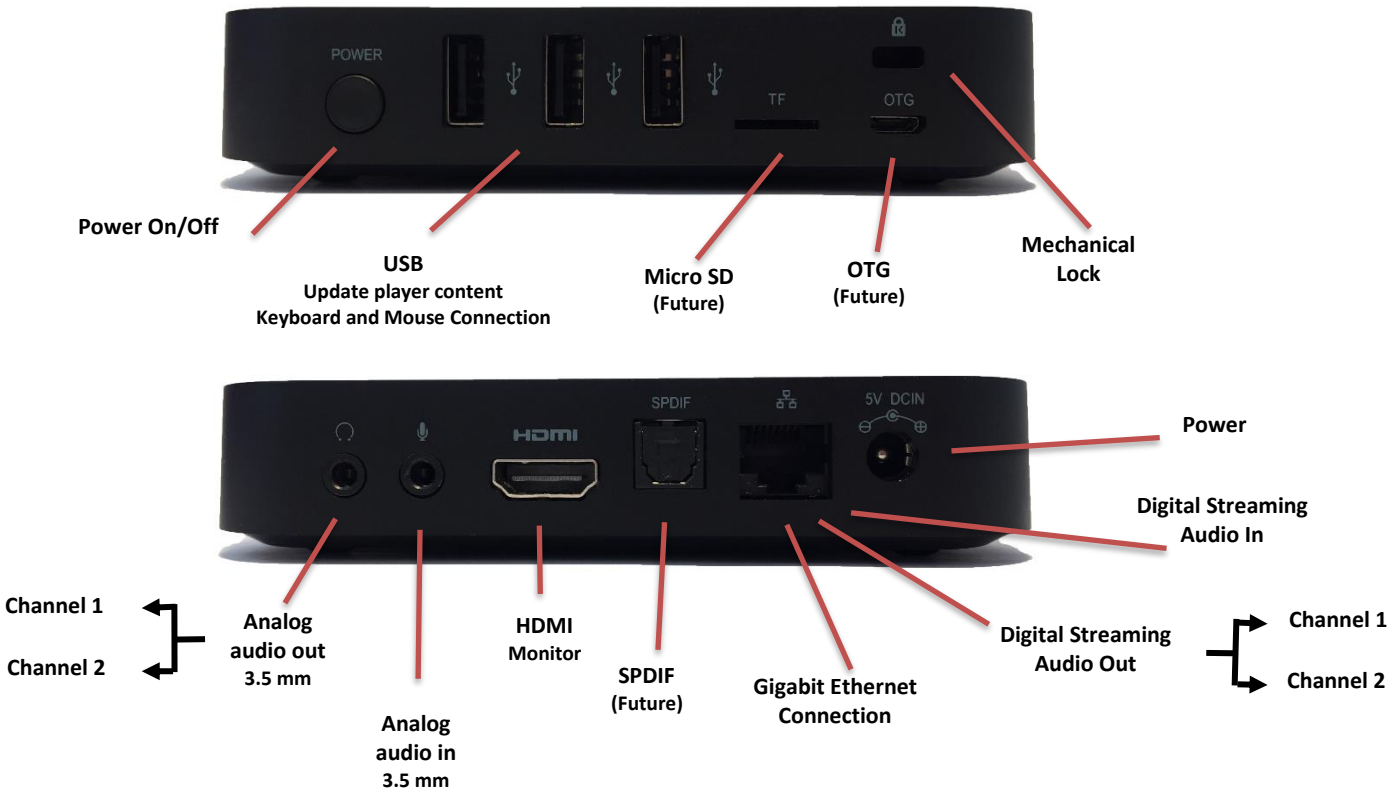
4. **Device Status** section - If instructed by Interalia support, select **Request Reset** to restart the iProMOH the next time it checks in. (It only does so once. After the iProMOH is restarted, the Request Reset checkbox is automatically cleared.)
5. Configure the **Device Configuration** section.
   - **Master Volume** sets the volume output for each channel of the iProMOH. (The volume can also be set locally with the volume keys on back of the iProMOH.)
   - **Fade Level** sets how low the background music fades down so that messages can play over top of it. (By Default 20%)
     - **Message Volume** - volume level of the Message
     - **Music Volume** - volume level of the Music
     - **External Music Volume** - volume level of the external audio

Note: By default, access to these volume buttons is disabled. After the iProMOH first check in, the enable check box will be available to enable these parameters.

6. Click the **Save** button  to save the configuration or the **Reload** button  to refresh the screen.
7. Click the **Close** button  to close the page.

Configuring the iProMOH V5 iMCM Mode

The V5 iProMOH has been redesigned on a new hardware platform and runs as an App on an Android operating system. The V5 can be configured in iMCM mode or SU mode. The V5 comes from the factory configured as a SU product with a USB interface which utilizes Simple Audio Mixer (SAM) software to configure the audio to be played. The following sections will illustrate how to reconfigure the iProMOH V5 from a SU device to an iMCM device. The first section will show how to reconfigure using a mouse, keyboard (optional) and HDMI display connection to configure each unit. A second section will show how to utilize a Configuration Text file on a USB stick to program a single unit or multiple units at one time without the need for the mouse, and HDMI display connection to each device.



Configure iProMOH V5 using a mouse, keyboard and display connection to the device

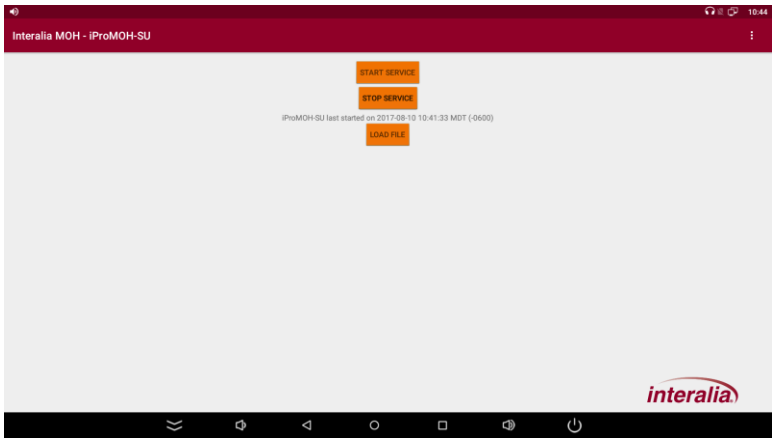
1. Connect the following to the iProMOH V5 device
    a. USB mouse
        (1) Normal android operation is click to open, right click to go back
        (2) Drag mouse to bring task bar at bottom of screen back
    b. HDMI display
    c. Network connection
    d. Power connection

    Note: a USB keyboard can be used to input setting information rather than utilizing the mouse on the screen keyboard
2. The device will turn on automatically when power is connected. If the device has been turned off, press the power on/off button to turn it on.

a. The unit will boot up and display a solid blue LED indicator
b. The Interalia logo will then appear on the screen
c. The Interalia MOH application will automatically load and open in the application

Set Service Type

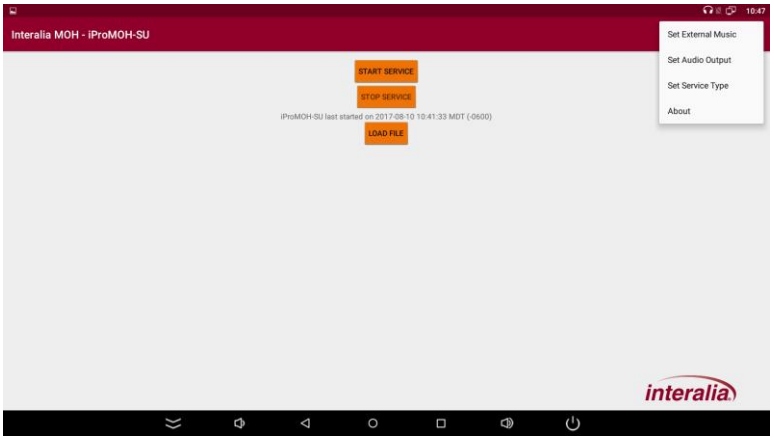
1. The following is the first screen you will see:



You will notice in the upper left hand part of the screen shot the Speaker icon is visible which means the iProMOH V5 is already playing the onboard royalty free music track in the SU mode.

In the upper right hand corner of the screen shot you will notice the network connection next to the time is functional.

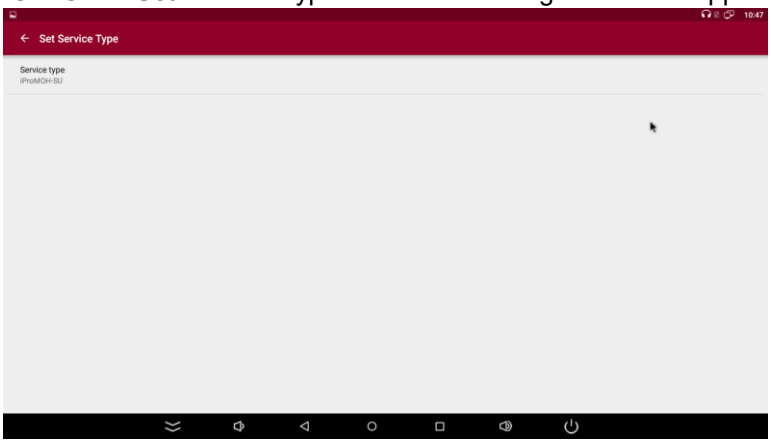
2. Click “Stop Service” (user is not allowed to modify the Service Type when the MOH Service is running) then click the “3 dots” in the upper right hand corner of the screen.



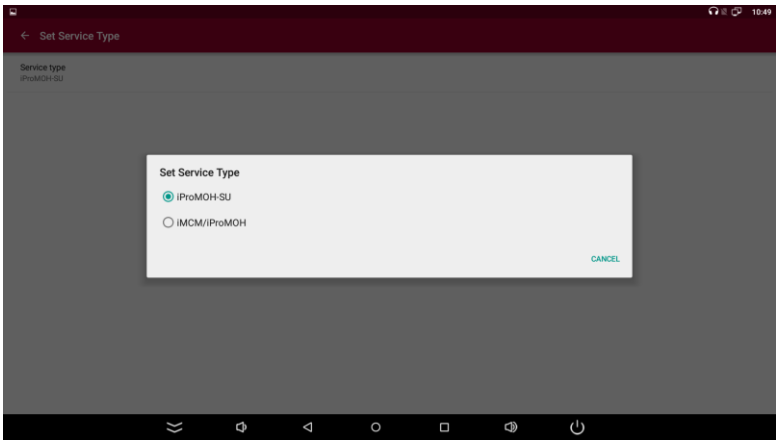
The pulldown menu options in the upper right hand corner are:

- Set External Music
- Set Audio Output
- Set Service Type
- About

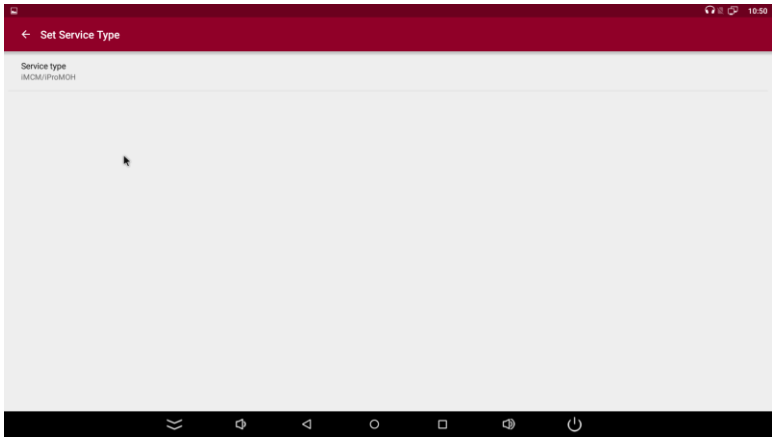
3. Click “Set Service Type” and the following screen will appear



4. Click “Service Type” in the upper left hand corner and the following screen will appear



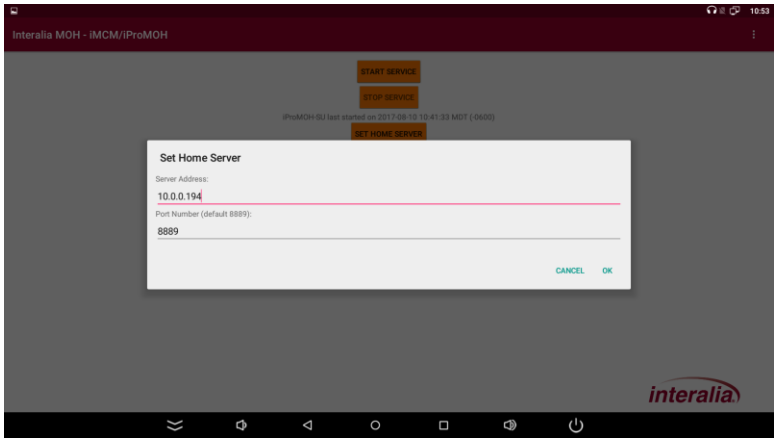
5. Click the radio button “iMCM/iProMOH and following screen will appear



6. Right click and the following screen will appear



7. Click the “Set Call Home Server” button and fill in the Server Address and the Port Number as shown below. Click OK to save the setting.

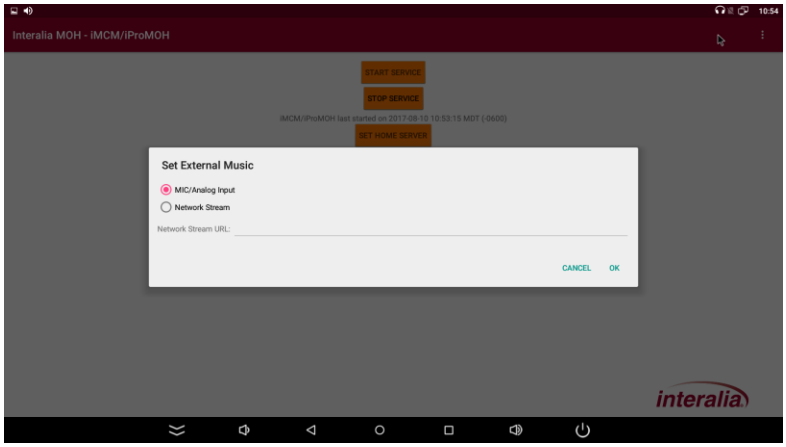


8. Click the “Start Service” Button and the iProMOH will automatically call home and obtain its’ audio content and schedule for playing. You can force a call home at any time by clicking the “Call Home” button. Click “OK” to save the settings.

Set External Music Input

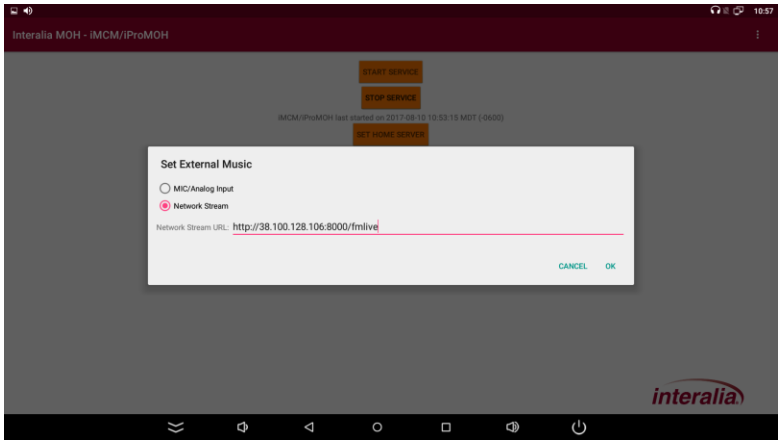
1. Click on the “3 dots” in the upper right hand corner of the screen and click on “Set External Music” menu option





The unit is in default mode for the External Music Input (MIC/Analog input).

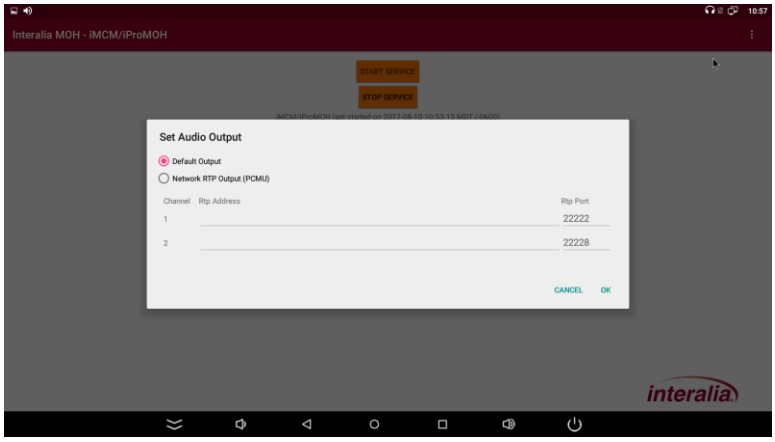
2. If you want to change to a network stream input, click the radio button marked “Network Stream” and input the Network Stream URL. This setting is utilized whether you stream from a wired network cable connection or a network Wifi connection. Click “OK” to save the settings.



3. Click “OK” to save the settings

Set Audio Output

1. Click on the “3 dots” in the upper right hand corner of the screen and click on “Set Audio Output” menu option

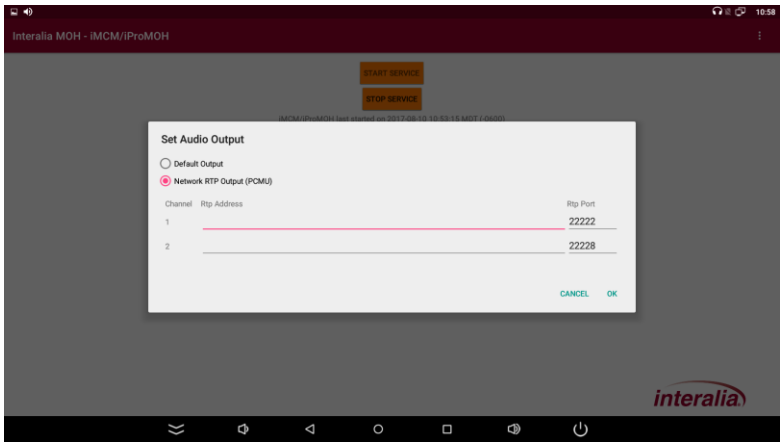


The unit is in the default mode “Default Out”. There are many options here:

- Headset jack to a speaker
- Bluetooth to a Bluetooth speaker

Note: Audio Output is not stereo audio – it is 2 individual mono audio channels

2. If you want to change to a network streaming output – click the “Network RTP Output (PCMU) radio button and enter the RTP address and RTP port for each channel.



If you were streaming to a Wifi speaker, this is the setting to utilize.

3. Click “OK” to Save the settings.

About

1. Click “3 Dots” in the upper right hand corner of the screen



Click “About” and you will see the following unit information

- Version – i.e. 1.0.0(Class 5) Build 20170602.1736.1
- MAC/Device ID i.e. A01E0B03AD14 (Note: this ID is also printed on the bottom of the device)

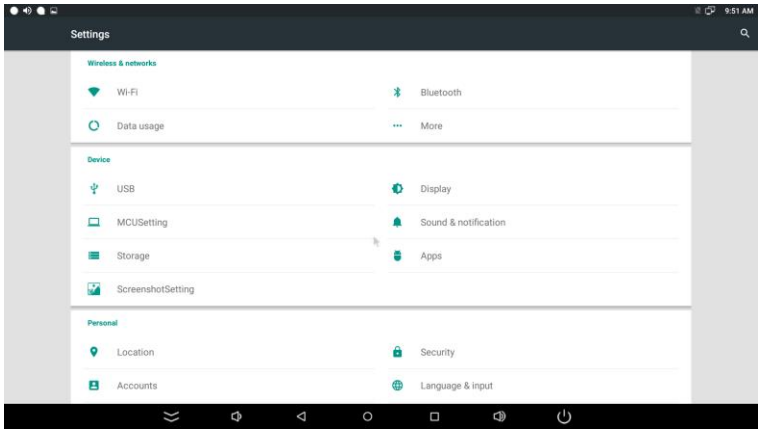
This is the unique information for this device.



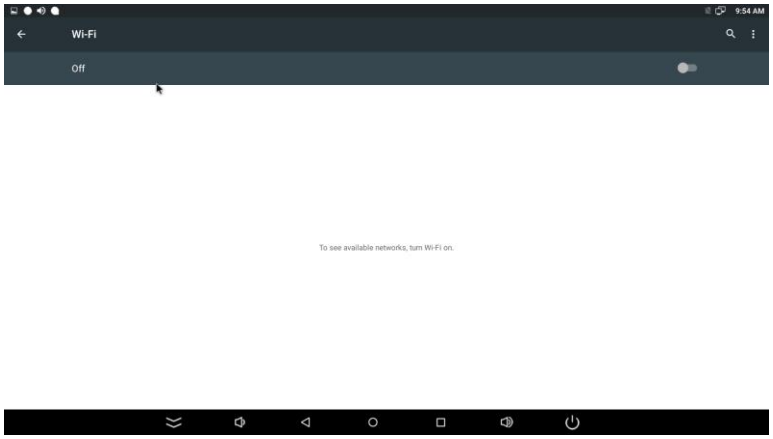
Wifi Enable

The following describes the procedure to turn on Wifi if you want to use it for network connectivity rather than the cable connection.

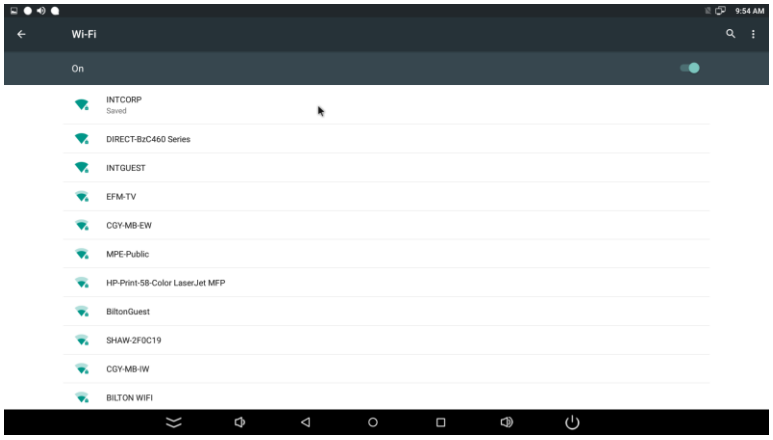
Click on the Home button “O” in the task bar on the bottom of the screen to go to the home screen. Then click on the settings gear icon to open the setting window.



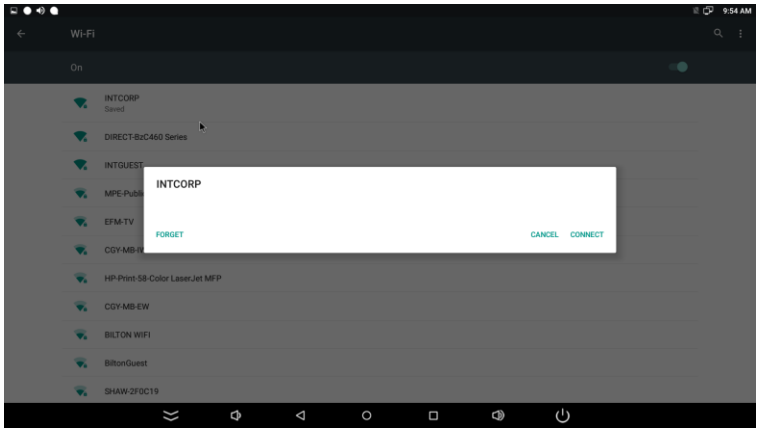
Click on Wifi



Click the slider on the right side of the screen



You now have all the active Wifi networks listed. Click on the one you want to utilize.



Click connect then right click to go back to the Home page.

Configure iProMOH V5 using a Configuration Text File (Config File) on a USB Drive

Introduction

1. The Config file is a text file and programs settings for one or multiple iProMOH V5 devices and eliminates the need to connect to each device with a HDMI display, a USB mouse and a USB keyboard (optional). The config file works for both the iMCM mode and the SU mode.
2. The Config file must be named "ipromoh5.config.ini" and saved at the root of a USB drive for the Config File to load automatically when plugged into the USB port on the iProMOH V5.
3. The iProMOH V5 can load a Config File and a SAM file (iProMOH SU operation) automatically if both of them exist on the USB drive when plugged in the unit. When both a Config file and SAM file exist on a USB drive, the iProMOH V5 will load the Config File first.
4. The SAM file will only be loaded when the iProMOH V5 is set to work in "SU" mode. If the config file sets the iProMOH V5 to work in "iMCM" mode, the SAM file on the USB drive will not be loaded.
5. The iProMOH V5 will also write a diagnostics file to the USB drive with comprehensive information about loading results of Config/SAM files, MAC Address, Memory size and remaining amount, time zone, etc.

How to use a USB Drive to autoload a Config file and obtain the diagnostics file output

1. Connect the USB drive with the Config file to the device.
2. Wait for the device to load the Config file and write the diagnostic information to the USB drive. The led on the USB drive may flash during the file read/write process.
3. The MOH playback service will stop during the loading and will resume playback when finished.
4. Unplug USB drive
5. If there is not a Config file on the USB drive the MOH service will not be interrupted, only the diagnostic information will be written onto the USB drive. Wait for the USB drive led to stop flashing before you unplug it.
6. It normally takes about 10 seconds to load a Config file but could take longer depending on the size of the file

File Content

The Config file is a text file and which has three components:

- Blank lines
- Comment lines
- Setting lines

1. Blank Lines
    a. This is line that contains only white spaces.
    b. It can be added to the Config File to make it easy to read.
    c. It does not affect any settings and will be ignored.
2. Comment Line
    a. Starts with the hashtag symbol '#', or the semicolon ';' character, and is followed with any text.
    b. Can have leading whitespaces before '#', and ';' characters.
    c. Can be added to the Config File to provide information to the user regarding the settings of the device(s).
    d. Does not affect any settings.
3. Setting Line
    a. Is in the following format:
        i. Key=value – this command sets a key for all the devices to a specific value
        ii. Key/=value – this command sets a key for all devices in the default group to a specific value
        iii. Key/device=value – this command sets a key for all specified devices (could be a single device, or a list of devices, or a group of devices) to a specific value
    b. Each setting line updates the key of one or multiple devices (depending to the format you use).
    c. All setting lines will be processed from top to bottom when the Config file is loaded to a device.
    d. If multiple setting lines update the same key with different values, the last value will be implemented.

List of Keys

A key is a feature that defines how a iProMOH V5 operate.

- It is in lower case and case sensitive.
- Each key refers to a setting on the iProMOH V5 device.
- The value given to the key will be used to update the setting on a device. If the value is an empty value, it will blank out whatever is existing i.e. external_music.stream= , in this case the external music stream will stop playing.
- If the specified value is not allowed for the key setting, an error will be reported in the diagnostics file i.e. “Invalid volume value, volume must be 0 – 100”.
- A key setting on a device will not change if its key is not found in config file.
- It is not required to add all keys into the config file. You only need to add a key/value pair to the Config File when you want to make a change to that key setting.

The following is a list of keys which can be programmed:

1. volume
    a. Used to update the master volume of a device, 0 for minimum volume (muted), 100 for maximum volume.
    b. Value must be in the range 0 to 100
    c. The following are two examples
        i. volume=50
        ii. volume=100
2. service type
    a. Used to set service type - SU mode or iMCM mode
    b. Value is su or imcm.
    c. The following are two examples
        i. service_type=su
        ii. service_type=imcm
            1. Note: When service type is set to “imcm”, you may need to update the key "home_server" with a server address and port if it hasn't been updated yet.

3. home_server
    a. Is used to set the address and port of the call home server.
    b. When service type is set to "imcm", it is used as the call home server address. If the “service_type” is set to “su” then it is not required to add this to the config file.
    c. Value is IP address:port
    d. The following is an example
        i. home_server=111.111.111.111:8889
4. external_music
    a. This key is used to set the external music input for the device.
    b. Value options are:
        i. default - sets the input for analog mic input
        ii. stream - sets the input for network audio stream
            1. When the “external_music” key is set to stream, you may need to update the “external_music.stream” key with the stream URL you want, if it hasn't been updated yet.
    c. The following are examples:
        i. external_music=default
        ii. external_music=stream
5. external_music.stream
    a. This key is used to set the network stream URL which will be the external music played.
    b. It does not need to be added to the Config File if the “external_music” key is not set to
    c. "stream".
    d. When the “external_music” key is set to "stream", the iProMOH V5 will play this network stream as external music.
    e. Value is a URL string per the following examples:
        i. external_music.stream=http://111.111.111.111/stream
        ii. external_music.stream=http://222.222.222.222/live.mp3
6. audio_output
    a. This key is used to set the audio output for the device.
    b. Value options are:
        i. default - sets the output for analog speaker
        ii. rtp - sets the output for network rtp
            1. When audio output is set to "rtp", you may need to update the "audio_output.rtp" key with the required rtp destination if it hasn't been updated yet.
    c. The following are examples:
        i. audio_output=default
        ii. audio_output = rtp
7. audio_output.rtp
    a. This key is used to set two rtp output streams – one for the left channel and one for the right channel
    b. The port number must be between 1024 and 65535
    c. It is strongly recommended not to set the same rtp destination for multiple devices as this will cause problems at the rtp receiver
    d. Value options are:
        i. address:port1
        ii. address:port2
    e. The following are examples:
        i. audio_output.rtp/device1=127.0.0.1:1110
            1. This is the rtp output of the left channel
        ii. audio_output.rtp/device1=,127.0.0.1:2220
            1. This has the comma in front of the IP address to designate the right channel
        iii. Audio_output.rtp=127.0.0.1:1110, 127.0.0.1:2220
            1. This shows the output of both channels

Configuration File (Config File) Examples

Remember that the iProMOH V5 comes from the factory pre-programmed to operate as an iProMOH-SU. This means the service type is set to su, the external music is set to default (analog mic) and audio output is set to default (analog speaker).

- service_type=su
- external_music=default
- audio_output=default

Utilize “key=value” format to program the devices without the need to connect a HDMI display, USB mouse and USB keyboard to each device. If all devices have the same settings, you can create one config file for all devices. If some devices have different settings you can utilize the device id to set specific settings to specific devices.

The following are examples of Config Files for the iProMOH V5

1. Update a device to work in iMCM mode, to use a network stream as an external music source, and to use the default audio output for an analog speaker

service_type=imcm
home_server=111.111.111.111:8889
external_music.stream=http://38.100.128.106:8000/fmlive
audio_output=default

- The home server must be set for the devices to work in iMCM mode
- The stream URL must be set when using a network stream as external music

In this case, every device that you plug the programmed USB key into will be configured for the above operation.

2. Update device to send audio output as a rtp stream
    a. Since this is an update from the previous example only the changes need to be input
    audio_output=rtp
    audio_output.rtp=111.111.111.111:1110, 222.222.222.222:2220

- You must program 2 sets of rtp addresses and two different ports if you are utilizing a 2 channel configuration. If you only have a one channel configuration then
    audio_output.rtp=111.111.111.111:1110
        - This sets the left channel
    audio_output.rtp=,222.222.222.222:2220
        - This sets the right channel (notice the comma is required before the address to designate the right channel)
-

3 Update a device to work in su mode, use network stream as external music, and use default audio output.
service_type = su
external_music = stream
external_music.stream = http://38.100.128.106:8000/fmlive
audio_output = default

As shown a stream url must be set when using network stream as external music.

4 update a device to work in imcm mode, use network stream as external music, and use default audio output.
service_type = imcm
home_server = 111.111.111.111:8889
external_music = stream
external_music.stream = http://38.100.128.106:8000/fmlive
audio_output = default

As shown a home server must be set for devices working in imcm mode.
A stream url must be set when using network stream as external music.

Device ID

Each iProMOH V5 unit has a unique MAC address. The MAC address is a string of 12 characters consisting of numbers 0 to 9 and letters A to F – i.e. A1B2C3D4E5F6. To be able to assign specific operating settings to specific iProMOH V5 units the Config file requires the character"@" to be inserted before the MAC address i.e. @A1B2C3D4E5F6. In addition, in the Config file the device MAC address is case insensitive so for convenience @A1B2C3D4E5F6 is the same as @a1b2c3d4e5f6.

To update a key value for all devices no matter what their MAC address, utilize the nomenclature "key=value". To update a specific key value for a specified unit/group (could be a single device, or a list of devices, or a group of devices) to a specific value rather than all the units, utilize the nomenclature "key/device=value" By utilizing this nomenclature you can update many different devices with different settings in a single Config File. An example of this is shown below:

5 Update 2 units with different service types in one Config file
service_type/@111111111111=su
service_type/@222222222222=imcm

- The unit with MAC address "111111111111" will be updated to su mode
- The unit with MAC address "222222222222" will be updated to imcm mode

No other devices will be affected.

In addition, device can be a list of device MAC addresses separated by a comma ","
Service_type/@111111111111, @222222222222=su

- In this example 2 devices with MAC addresses "111111111111" and "222222222222" will be updated to su mode, and no other devices will be affected

Group ID (This an advanced feature key of the Config File)

a. A new key designated as “id” is used to set a group of devices under a user designated group id name (i.e. Lobby).
b. The group id is case sensitive.
c. The group id name must start with a letter and be followed with letters, numbers, and the period “.” or the underscore “_” i.e. sales_department.
d. The key/device=value format is used to add devices to groups where
   (1) the key is “id”
   (2) device: specify devices by a list of the devices or groups ids which are separated by a comma “,”
   (3) value: is a list of group ids to which the specified devices are being added, separated by a comma “,”
e. The following are examples of using device ids’ to add devices to new or existing groups
   (1) id/@111111111111 = front_door, imcm_group
   (2) id/@222222222222 = back_door, imcm_group
   (3) id/@333333333333 = main_office
   (4) id/@444444444444, @555555555555 = sales_department

   As a result of the above four lines in the Config file:
   device "@111111111111" is added to group "front_door" and "imcm_group".
   device "@222222222222" is added to group "back_door" and "imcm_group".
   device "@333333333333" is added to group "main_office".
   device "@444444444444" and "@555555555555" are added to group "sales_department"
   "front_door" contains only one device "@1111111111111".
   "back_door" contains only one device "@222222222222".
   "main_offfice" contains only one device "@333333333333".
   "imcm_group" contains devices "@111111111111", "@222222222222".
   "sales_department" contains devices "@444444444444", "@555555555555"

   when a group contains only one device, the group name can be treated as device name.
   "front_door" can be treated as name of device "@111111111111"
   "back_door" can be treated as name of device "@222222222222"
   "main_offfice" can be treated as name of device "@333333333333"

f. In addition you can use group ids to update device settings.
   (1) service_type/imcm_group = imcm
   (2) home_server/imcm_group = 111.111.111.111:8889
   (3) external_stream/stream_group1, stream_group2 = stream
   (4) external_stream.stream/stream_group1 = http://111.111.111.111/stream
   (5) external_stream.stream/stream_group2 = http://222.222.222.222/live.mp3

   As a result:
   - all devices in imcm_group will all change service type to imcm
   - all devices in imcm_group will have a call home server address of 111.111.111.111:8889
   - all devices in stream_group1 and stream_group2 will both utilize an external stream source
   - all devices in stream_group1 will utilize an external stream source http://111.111.111.111/stream
   - all devices in stream_group2 will utilize an external stream source http://222.222.222.222/live.mp3

Note:

- when a group containing one/multiple devices is used in "key/device=value" format, the value applies to all the devices in the group.
- though you can use mix of device/group ids for device in "key/device=value" for settings, it is recommended to use group ids only.
- when a device id must be explicitly used in config file, use the key "id" to add it to new/existing groups first, then refer to the device by group name in setting lines. By doing so, when you replace an old device with a new one, you can simply search "id" lines for the old device id, update the device id to new device id, then the new device will be in same groups of the old devices. As a result, all the settings for the old device will be transferred to the new device automatically. If you use device id directly in settings, you have to find them from various setting lines, and may have to update the device id to the new one multiple times.

g. In addition, “device” can be a mix of device and group ids, it will update a key with the value for all the devices listed. An example of this is:

service_type/imcm_group, sales_department, @444444444444 = imcm

as a result,

- it will update all devices in group "imcm_group", "sales_department", and device "@444444444444" to imcm mode.
- for group id like "imcm_group", "sales_department", it is a group name created when a user puts a device into groups using a special key "id".

key/=value (This an advanced feature key of the Config file)

This key/=value format will be utilized when you want to have the settings apply to only the devices listed in the config file without having to create a new named group of devices. This format utilizes the default group. The default group is a group that does not have a designated name. It is an implicit group of devices identified in the “device” part of "key/device=value" format of the config file. All devices listed in the config file are automatically added to the default group.

To review, when you utilize the:

- “key=value” format, the key/value pair applies to all devices.
- "key/device=value" format, the key/value pair applies to the specified devices only.
- "key/=value" format, the key/value pair applies to the devices in the default group at that time. Devices are automatically added to the default group whenever the key/device=value format is used even if the “value” is blank.

The following illustrates the default group concept:

id/@111111111111 = front_door, imcm_group
id/@222222222222 =
service_type/@333333333333=su

- device "@111111111111" is added to group "front_door", and "imcm_group". The device is also added to the default group. The default group now contains 1 device: "@111111111111".
- device "@222222222222" is added to the default group, even when it was not added to any named group. The default group now contains 2 devices: "@111111111111", "@222222222222".
- device "@333333333333" is added to the default group, because any device specified for any key will also be added to the default group. The default group now contains 3 devices: "@111111111111", "@222222222222", "@333333333333".

If you wanted to create a large new group, you could manually input the i.e. 100 devices into a group. We would then utilize the "key/device=value" format to apply a key/value setting to the whole group. Per the example below, using the default group is much faster and simpler.

```
# device list
id/@111111111111 = device1_group
id/@222222222222 = device2_group
id/ = stream_group
id/@333333333333 = device3_group
# settings
service_type = su
service_type/ = imcm
external_music/stream_group = stream
```

As a result, of the above Config file:

- group "stream_group" contains devices "@111111111111", "@222222222222", because when “id/=stream_group” is processed, all devices in default group are added to “stream_group”. At that time default group contains devices “111111111111” and “222222222222”
- all devices work in su mode, except devices "@111111111111", "@222222222222", "@333333333333" which are set to work in imcm mode, because they are in the default group when “service_type/=imcm is processed
- device "@111111111111", "@222222222222" in "stream_group" will use a network stream as external music.
- when this config file is loaded onto device "@555555555555", which does not appear in config file, it will be set to work in su mode. This is because the general service_type=su setting applies to all devices and device”@555555555555 is not specifically identified in the Config file to have other settings applied.

Order of the Setting Line

The order of setting lines (for the same key) in the config file is important. All setting lines will be processed in order from top to bottom. If multiple setting lines update the same key with different values, the last value stands.

For example, for "service_type" key

```
service_type = su
service_type/imcm = imcm
```

as a result:

- all devices are set to su mode, but devices in group "imcm" are set to imcm mode.

If you swap the order of these setting lines,

```
service_type/imcm = imcm
service_type = su
```

As a result:

- all devices are set to su mode and no device is set to imcm mode.
- This is because the first line to set devices in group "imcm" to imcm mode is overrode by the 2nd line to set all devices to su mode.

Always put the most generic settings first, and least generic settings last. Generally for the same key, the order of "key/device=value" pair appearing in the Config file should be

```
key = value
key/ = value
key/device = value
```

Example of Usage of Group ID

The following illustrates how to create a Config File using the Group ID to program 100 iProMOH V5 units. The requirements are:

- 91 devices are in su mode
  - External music input
  - Output audio to speaker
  - Volume set to 80%
- 9 devices in imcm mode “@111111111111, @222222222222, …, @999999999999
  - Volume set to 50%
  - call home server of first 5 devices is "111.111.111.111:8889"
  - call home server of last 4 devices is "222.222.222.222:8889"
  - first 2 devices use network radio stream "http://111.111.111.111/stream" as external music
  - last 2 devices use network radio stream "http://222.222.222.222/live.mp3" as external music
  - last 2 devices send rtp output stream for 4 audio channels to address "111.111.111.111", and to port 1110, 2220, 3330, 4440

The following illustrates how to develop the Config File

- We need 2 groups for 2 different imcm home servers The names picked for these 2 groups are "imcm1" and "imcm2"
  - home_server/imcm1=111.111.111.111:8889
  - home_server/imcm2=222.222.222.222:8889
- We need 2 groups for 2 different external music streams. The names picked for these 2 groups are "stream1" and "stream2".
  - external_music.stream/stream1=http://111.111.111.111/stream
  - external_music.stream/stream2=http://222.222.222.222/live.mp3
- We need 2 groups for 2 rtp outputs from 2 devices. The names picked for these 2 groups are "rtp1" and "rtp2".
  - audio_output.rtp/rtp1=111.111.111.111:1110, 111.111.111.111:2220
  - audio_output.rtp/rtp2=111.111.111.111:3330, 111.111.111.111:4440
- We use "id" setting lines to put devices into these groups.

Config File Example

	Extended Group		**Sub Group**						
	Lobby		iMCM1	iMCM2					
	Ball Room				Stream1	Stream2			
	Conference Room						RTP1	RTP2	
									Default
MAC ID									
111111111111			x		x				x
222222222222			x		x				x
333333333333			x						x
444444444444			x						x
555555555555			x						x
666666666666				x					x
777777777777				x					x
888888888888				x		x	x		x
999999999999				x		x		x	x

The resultant Config File is the following:

```
# file: iProMOH.config.ini
# company: Interalia

# devices
id/@111111111111=imcm1, stream1
id/@222222222222=imcm1, stream1
id/@333333333333=imcm1
id/@444444444444=imcm1
id/@555555555555=imcm1
id/@666666666666=imcm2
id/@777777777777=imcm2
id/@888888888888=imcm2, stream2, rtp1
id/@999999999999=imcm2, stream2, rtp2

# extended groups
id/imcm1, imcm2=lobby
id/stream1, stream2=ballroom
id/rtp1, rtp2=pool

# default settings
volume=80
service_type=su
external_music=default
```

audio_output=default

special settings
volume/=50

service_type/lobby=imcm
home_server/imcm1=111.111.111.111:8889
home_server/imcm2=222.222.222.222:8889

external_music/ballroom=stream
external_music.stream/stream1=http://111.111.111.111/stream
external_music.stream/stream2=http://222.222.222.222/live.mp3

audio_output/pool=rtp
audio_output.rtp/rtp1=111.111.111.111:1110, 111.111.111.111:2220
audio_output.rtp/rtp2=111.111.111.111:3330, 111.111.111.111:4440

If at a later date device "@999999999999" needs to be replaced with a new device "@aaaaaaaaaaaa", you need to find the "id" line containing "@999999999999" and replace it with "@aaaaaaaaaaaa",

- Comment the old line out using the alternative comment character ';'
  - ; id/@999999999999=imcm2, stream2, rtp2
- and add the new device id to the groups the old one belonged to
  - id/@aaaaaaaaaaaa=imcm2, stream2, rtp2

Once the config file is updated, plug the usb drive containing the updated config file into the new device, and all settings will be transferred to the new device.

Config File Example - after replacement

	Extended Group		**Sub Group**							
	Lobby		iMCM1	iMCM2						
	Ball Room				Stream1	Stream2				
	Conference Room						RTP1	RTP2		
									Default	
										Default after Replace
MAC ID										
111111111111			x		x				x	x
222222222222			x		x				x	x
333333333333			x						x	x
444444444444			x						x	x
555555555555			x						x	x
666666666666				x					x	x
777777777777				x					x	x
888888888888				x		x	x		x	x
999999999999				x		x		x	x	

aaaaaaaaaaaa x

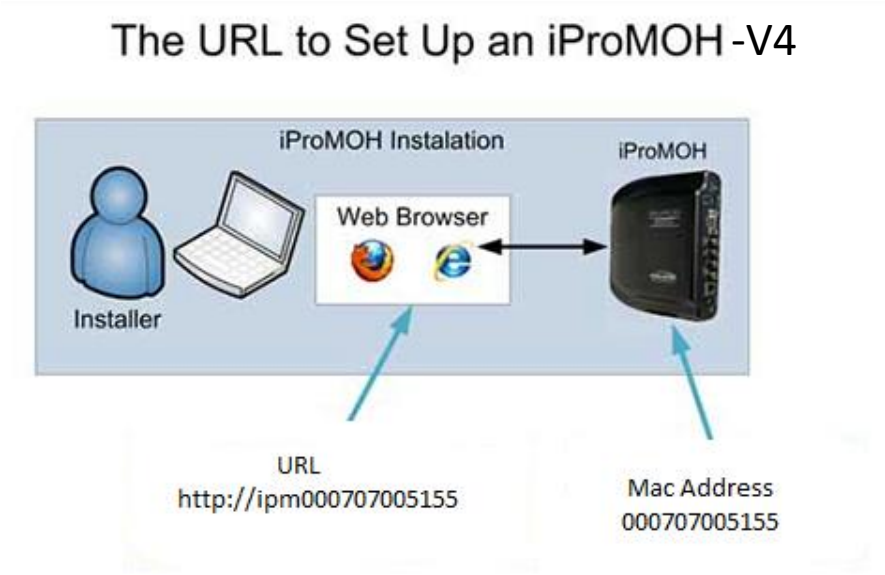
Configuring Call Home Server address on an iProMOH V4 via Installer Website Application:

1. In a web browser, open the URL

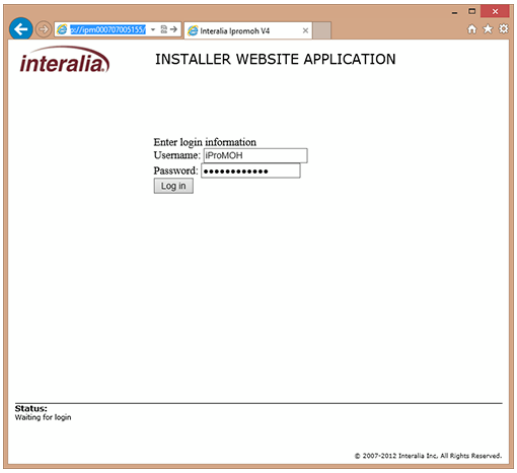
   http://ipm<Mac address> or http://<iProMOH's IP address>

   Where *MACADRESS* is the MAC address of the iProMOH. For example: http://ipm000707005155.
   Where iProMOH's IP address is the IP address of the iProMOH. For example: http://10.0.0.122.

Note *The host Name URL may not work on all network configurations. If this is the case use the IP address of the iProMOH.*



The following Installer Website Application appears.



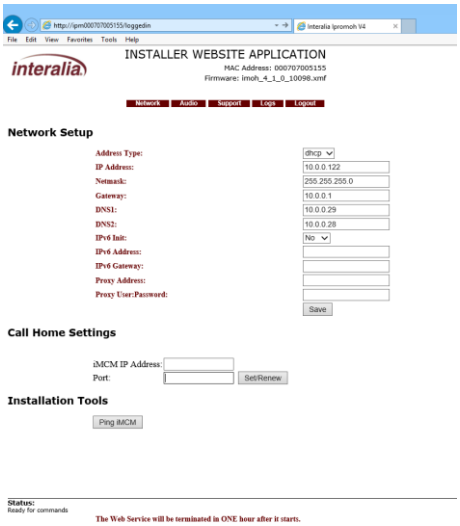
Note *The Installer Website Application is only available for one hour after the iProMOH is powered on. If you have waited longer than one hour, simply power-cycle the iProMOH.*

2. For the username, enter **iProMOH**.
3. For the password, enter the iProMOH's 12-character MAC address. (This can be found on the back of the iProMOH.) For example: `000707005155`.

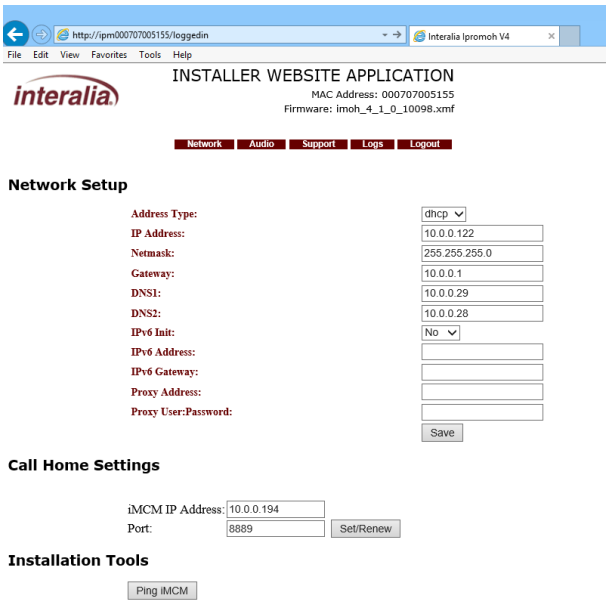
Note *Letters in the MAC address must be entered in **uppercase**.*

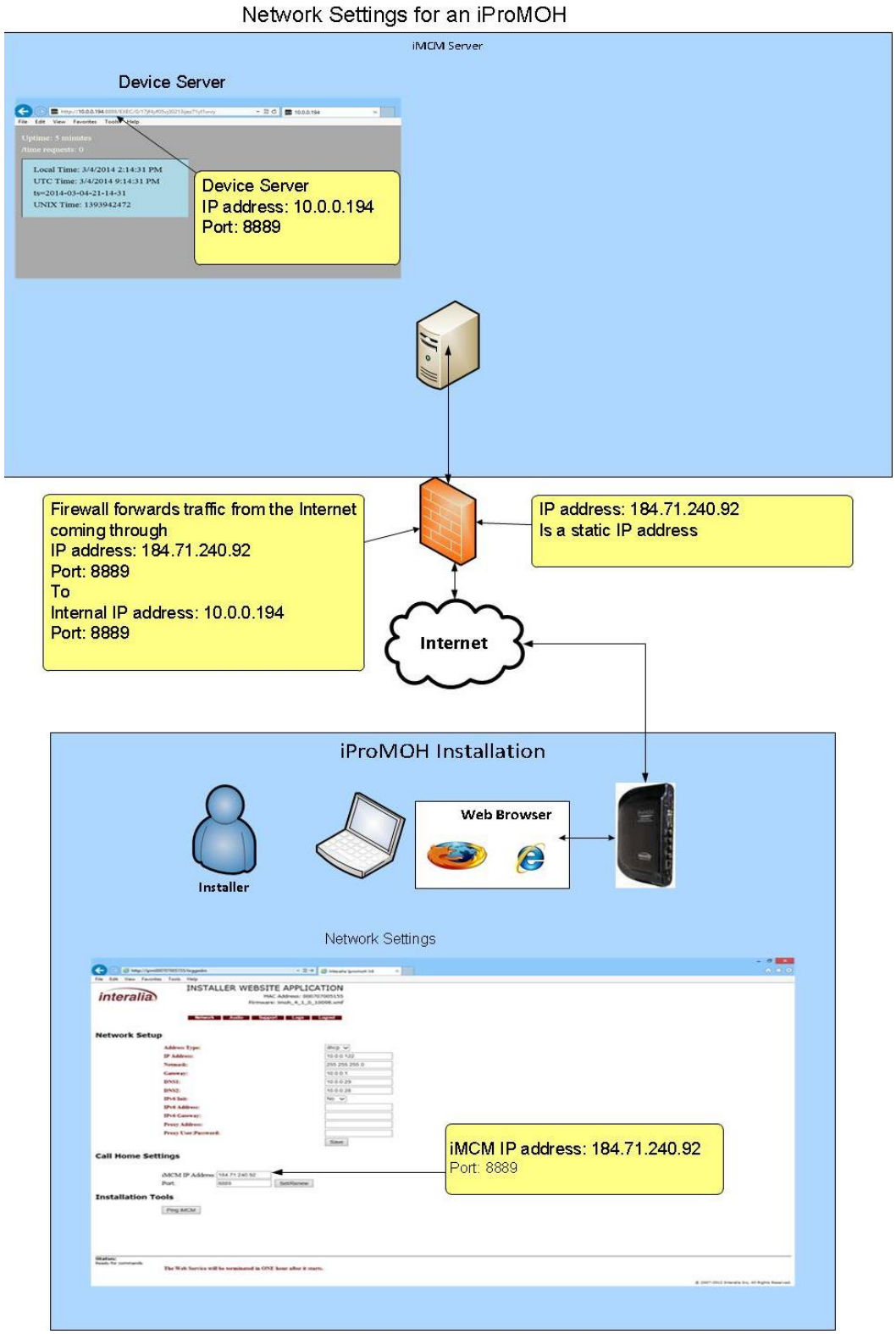
4. Click **Login**.

   The network configuration page appears.



5. Configure the Network Setup settings.
   - **Address Type** — choose how the iProMOH obtains its IP address.
   - **IP Address** — IP address of the iProMOH.
   - **Netmask** — subnet mask.
   - **Gateway** — gateway for this iProMOH.
   - **DNS1** — primary domain name server.
   - **DNS2** — secondary domain server.
   - **IPv6 Init** — enables the IPv6 scheme.
   - **IPv6 Address** — IP address for the IPv6 scheme.
   - **IPv6 Gateway** — gateway for the IPv6 scheme.
   - **Proxy Address** — IP address of the proxy, if used.
   - **Proxy User: Password** — username and password for the proxy, if used.
6. **Call Home Settings:**
   Set the iMCM IP address and Port to the IP address and port number of the Device Server. This must match the Settings in the iMCM Web Server/iMCM Configuration Server; see “Understanding IP Addresses” on Chapter 2.

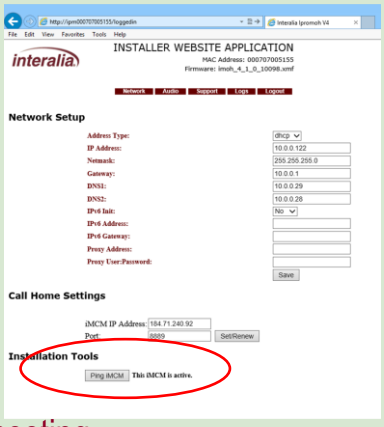




7. Click **Set/Renew**.
8. To check the communication, select Ping iMCM button. If it says “This iMCM is Active” then the communication between iProMOH and iMCM working properly.

Success Checkpoint

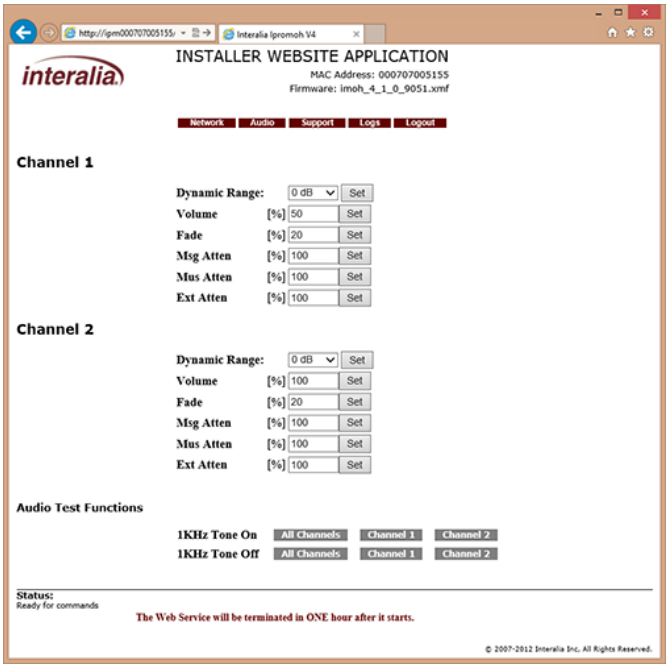
When you click Ping iMCM, you should see **This iMCM is active**. This confirms that the iProMOH can successfully contact the iMCM Server.



Troubleshooting

If you cannot set up the iProMOH through the web interface, see Appendix B, “Other Ways to Locate iProMOHs” for alternate methods.

9. The audio parameters can be set in the Installer Website Application by clicking the Audio button or via iMCM Web Server/iMCM Configuration Server



10. For each channel, choose the following settings.
    - **Dynamic Range -** adjusts the peak-to-peak signal strength of the overall output. Different end units may be more sensitive than others and require a smaller dynamic range. If the dynamic range is too large, the audio output may be distorted.
    - **Volume -** sets the volume output for each channel of the iProMOH. (The volume can also be set locally with the volume keys on back of the iProMOH.)
    - **Fade –** sets volume level for the music when the messages are playing. (By Default - 20%).
    - **Attenuation Parameters**:
        - **Msg Atten** - Message Attenuation - volume level of the Message
        - **Mus Atten** - Music Attenuation - volume level of the Music
        - **Ext Atten** - External Music Attenuation - volume level of the External Music

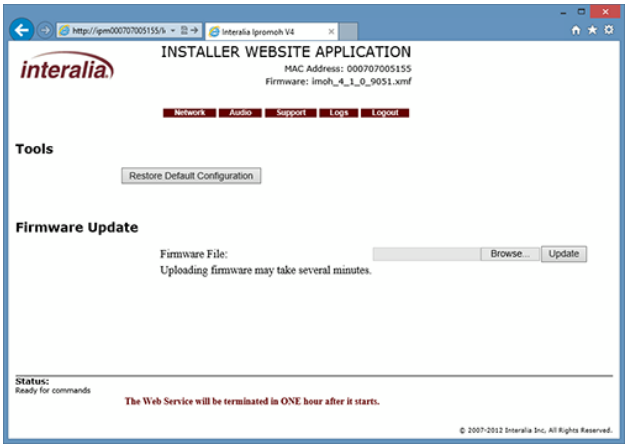
11. Optionally attach speakers (Not provided) to the **Audio Out** connections on the back of the iProMOH, and use the **Audio Test Function** buttons on the web page to play a tone.



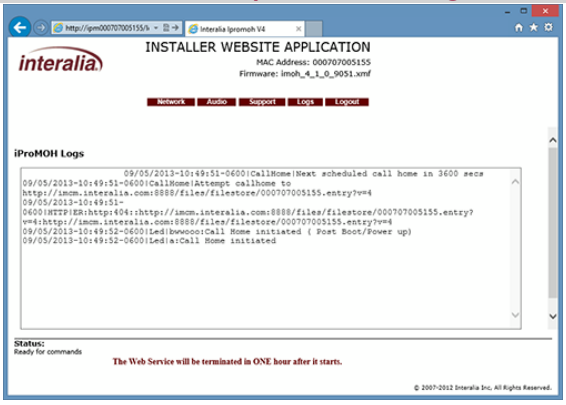
Success Checkpoint

You should hear the tones playing over the speakers connected to the iProMOH. This checks that the iProMOH will correctly play the sounds sent to it.

12. Optionally, click the **Support** button to:
    - **Restore Default Configuration** (This will delete the entire Configuration from the iProMOH)
    - **Update** the **iProMOH firmware** (Update can also be done by the iMCM Web Server/iMCM Configuration Server)



13. The **Logs** screen is intended to use by Interalia Technical Support.



14. When you are finished, click **Logout**.

iProMOH V4 LED Status

The status LED on the back of the iProMOH indicates the current activity of the iProMOH.

Status LED	Indicates
Flashing Green	Normal Operation
Flashing Green and Amber	Upload/Download Activity & admin connection
Solid Red	Error Condition. A reboot is required.
Solid Green	Firmware updates / Start up

iProMOH V4 checks in and CallHome Success:

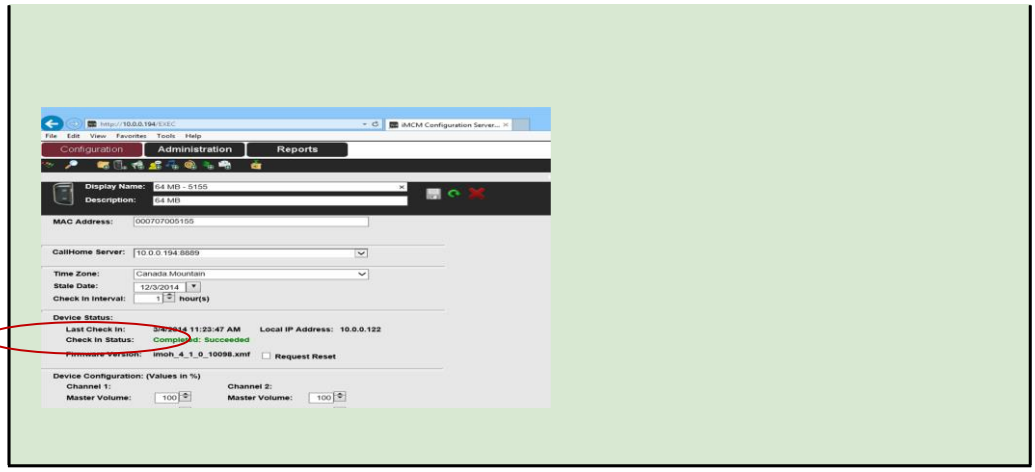
You have completed adding your iProMOH V4 on the iMCM Web Server/iMCM Configuration Server and have configured the CallHome Server address on the iProMOH V4 unit as well.

It may take few minutes before the iProMOH V4 first checks in.

To see the successful call home immediately. Press both volume buttons (~2 sec) on the iProMOH simultaneously. This will initiate the call home. Now you will be able to see the status message on the iProMOH V4 page on the iMCM Web Server/iMCM Configuration Server.

Success Checkpoint

You must log in to iMCM Web Server/iMCM Configuration Server to confirm that the iProMOH successfully checks in. This confirms that the iProMOH can communicate with the iMCM Server.


Configuration
Administration
Reports
Display Name:
64 MB - 5155
Description:
64 MB
MAC Address:
000707005155
CallHome Server:
10.0.0.194:8889
Time Zone:
Canada Mountain
Stale Date:
12/3/2014
Check In Interval:
hour(s)
Device Status:
Last Check In:
Local IP Address:
10.0.0.122
Check In Status:
Request Reset
Device Configuration: (Values in %)
Channel 1:
Channel 2:
Master Volume:
Master Volume:

CHAPTER 5 | *Uploading and Updating Media files*

The Service Manager is the best method to use when you have a large number of files to upload. The Configuration Server is convenient when you only want to upload a few files.

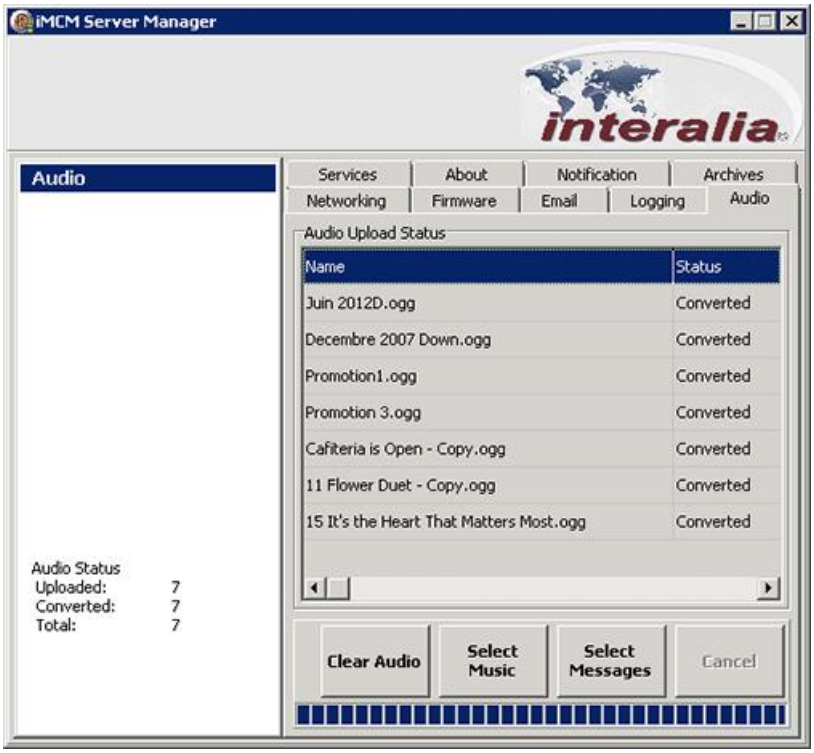
In This Chapter

- “Uploading Audio via the Service Manager”
- “Uploading Audio via the Configuration Server”
- “Updating Audio file via the iMCM Web Server/iMCM Configuration Server”

Uploading Audio via the Service Manager

To upload audio via the Service Manager:

1. Select the **Audio** tab.



2. Click **Select Music** (to upload music files) or **Select Messages** (to upload message files). Browse to the file(s) to Upload, and click **Open**.

   The files can be any of the following types:

   - **.OGG** — Ogg Vorbis audio
   - **.WAV** — Waveform Audio
   - **. MP3** — MPEG-1 or MPEG-2 Audio Layer III
   - **.AU** — Audio file (typically created on a Sun or Unix-based machine)
   - **.WMA** — Windows Media Audio

3. The **Audio Upload Status** list shows the status of each file's conversion to the file format used internally (.OGG).

Notes *Files uploaded here appear in the* **New Audio** *section of the treeview in the iMCM Web Server/iMCM Configuration Server. Use the* **Edit** *button to move them to the appropriate folders. (They will not be available to use in schedules until they are moved into the same folder as the schedule or a parent folder of the schedule.)*

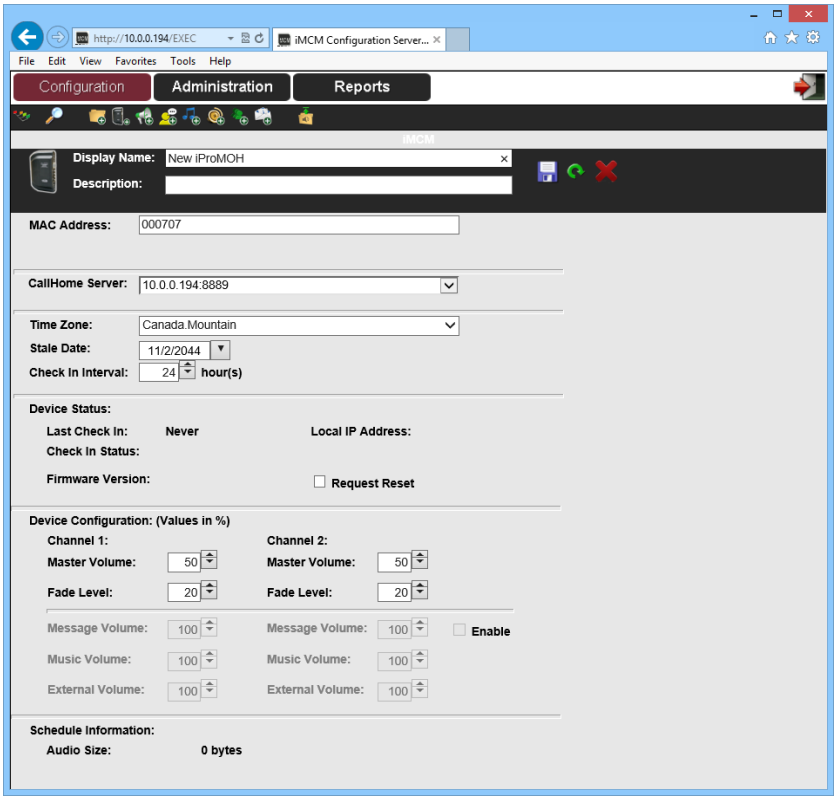
You cannot create folders under the **New Audio** *folder. It is just a repository for audio files uploaded via the Service Manager.*

If you accidentally choose **Select Music** *instead of* **Select Messages**, *or vice-versa, you can change the file's type later through the iMCM Web Server/iMCM Configuration Server.*

Uploading Audio via the iMCM Web Server/iMCM Configuration Server

To upload audio files via the iMCM Web Server/iMCM Configuration Server:

1. Select the folder where the audio files are to go.
2. Click the **Upload Audio** button 



3. Click **Browse** to select the audio file(s) to upload.
4. Enter a **Display Name** and an optional **Description**.
5. Select the **Audio Type** (to determine if this is a music file or a message file).
6. Click the **Upload Selected Files** button .

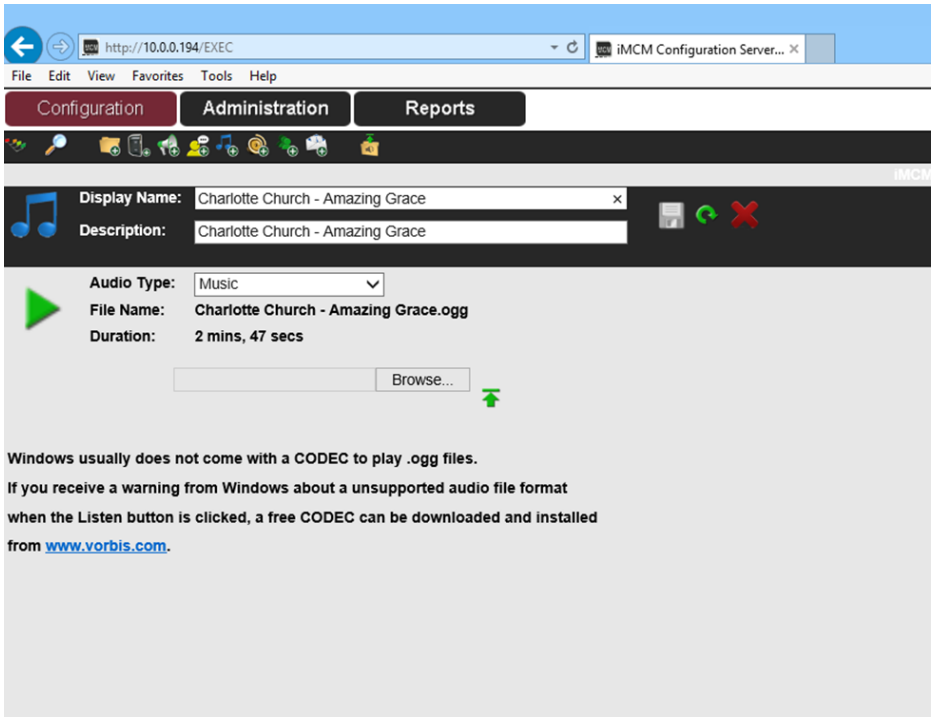
Note *You can only upload audio files if you have the correct user level privilege.* See Chapter 9, “Administration and User Accounts

---

Updating Audio files with existing name via iMCM Web Server/iMCM Configuration Server: (Re-import File Feature)

To update audio files with existing name: This is also an iMCM's new feature called "Re-import file"

1. Double click the **Music or Message file** from the Tree View
2. It will show the following page (Example shown is for Music)



2. Select **Browse button** to browse and select a new file with the same name.
3. To upload select upload icon.
4. The new file replaces the existing file with the same name. This allows you to utilize the existing schedule with new content.
5. When the iProMOH next checks in , it will update with the new file.

CHAPTER 6 | *Creating Schedules*

This chapter describes how to schedule messages and music

In This Chapter

- “Schedule Overview”
- “Override Priorities”
- “Common Use Cases”
- “Creating a New Message Schedule”
- “Creating a New Priority Message Schedule”
- “Creating a New Music Schedule”
- “Creating a New External Music In Schedule”
- “Other Examples”
  - “Creating a Store Folder”
  - “Adding Audio to the Store Folder”
  - “Creating a Regular Message Schedule”
  - “Creating a Regular Music Schedule”
  - “Creating an External Music in Schedule”
  - “Viewing the Schedule”
  - “Adding a Sub-Folder for a Different Location”
  - “Adding a Location-Specific Regular Message Schedule”
  - “Adding a Location-Specific Priority Message Schedule”
  - “Viewing the Location-Specific Schedule”
  - “Creating a New Supercede Schedule”
  - “Viewing the Schedule”

Schedule Overview

The iMCM enables you to schedule:

- Music (either from music files or the external licensed audio input)
- Messages

There is an inherent priority for schedules. The following illustrates the priorities, from highest to lowest:

- Priority Message Schedule :
  - The priority messages take precedence over the regular messages, but if a regular message is playing when a priority message is scheduled, the regular message will be allowed to finish before the priority message starts. For example, you might have a regular set of schedules that play during the day, and a priority “the store is closing in 15 minutes” message that plays at a specific time.
- Message Schedule:
  - When messages play, the music automatically fades down. The music fades back up when the message has finished.
- Music Schedule:
  - Music schedules using music files take precedence over schedules using the external input.
- External Music Schedule:
  - External Music Schedule has the lowest priority among all schedules.
  - If both Music and External Music schedules are enabled at the same time, the Music schedule will play.

Override Priorities

There are also three override priorities of schedules:

The Override priorities are applicable between the same type of schedules (Such as, Priority Message Schedule or Message Schedule or Music Schedule) and within the same folder. These priorities do not apply between different types of schedules and folders.

- **SuperCede** — schedule takes precedence over both Neutral and Ceded schedules. For example: you might create one of these schedules for a holiday. (Highest Priority)
- **Neutral** — schedule is played normally. For example: you might set this schedule as the default for every day of the year.
- **Cede** —schedule has lower priority than Neutral schedules. For example: you might create one of these schedules for background music in off-hours when maintenance staff is on premises. (Lowest Priority)

Common Use Cases

Some examples of typical schedules are:

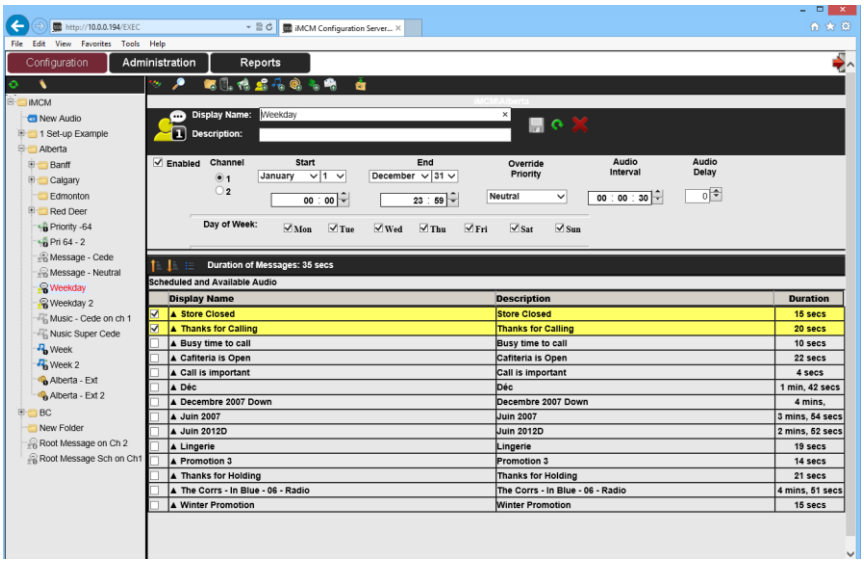
- A Music-on-hold system plays background music 24 hours a day, 7 days a week. Periodically, messages play over the music.
- A store plays music over a public address system. Messages play during the hours the store is open. Some messages are common to all days, and some are specific to particular days of the week. Shortly before closing, an announcement tells customers the store is closing.
- A Company has two regions and three stores in each region. Each store has different hours. Each store has its own iProMOH. There are some messages that are common to all stores, some that are common to the region, and some that are specific to the store.

For examples of some typical schedules, and how to set them up, see “Other Examples” .

Creating a New Message Schedule

To create a new message schedule:

1. In the treeview, select the folder where you want the schedule to be placed.
2. Click the **New Message Schedule** button .



3. Configure the following information:

- **Enabled** — whether this schedule should be currently enabled or not.

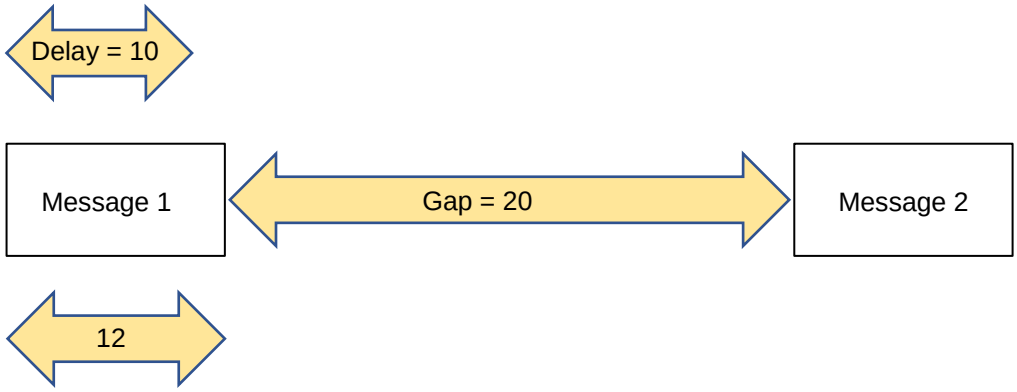
  This feature allows you to create schedules in advance, and then enable them when the promotion starts.

  Disabling a schedule allows you to keep a schedule inactive without having to delete it, which is useful for schedules that only run during certain times of the year.

- **Channel** — whether this schedule should play on channel 1 or 2 of the iProMOH.
- **Start** and **End** — the dates and times this schedule should run.
- **Override Priority** — whether this schedule should override other schedules See “Override Priorities”.
- **Audio Interval** — the time (hh:mm:ss) between the start of one message and the start of the next.

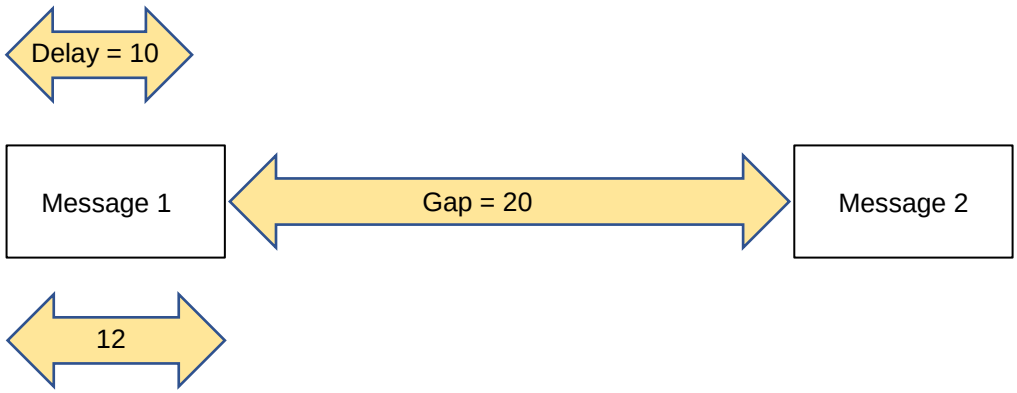
  For example, if the first message is 9 seconds long, and the audio interval is 30 seconds, there will be a gap of 18 seconds from the end of the first message and the start of the next.

  If you want varying time between messages, utilize Audio Interval and set Audio Delay to zero (Note: must use the up/down arrows – you cannot type in the number into the field).



- **Audio Delay** — interval between the end of the first message and start of the second message.

  This interval time is a constant time between messages. In order to use this functionality, set the Audio interval shorter than the shortest message (10 secs minimum). Audio Delay takes priority over Audio Interval and expands music playing time to duration of the delay. Then set the Audio Delay between 5 and 60 seconds.



- **Days of Week** — days this schedule will play.

4. In the **Scheduled and Available Audio** list, select the messages that will be played during this schedule.

   The list shown is available message files for this location in the treeview.

   You can use the **Move Item Up** or **Move Item Down** buttons to rearrange the order of messages. This affects the order in which they are played.

   You can use the **Select/Deselect All Items** button to quickly select or deselect all messages in the list.

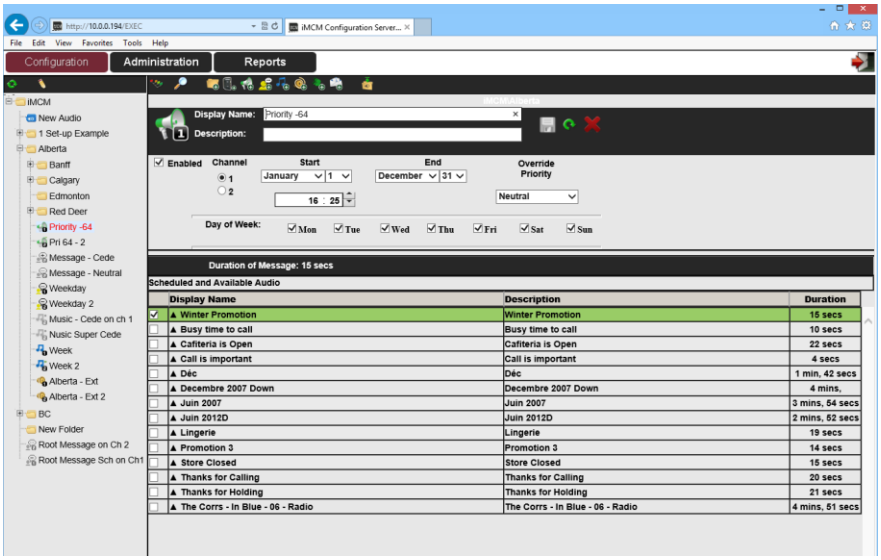
5. Click the **Save** button to save the configuration or the **Reload** button to refresh the screen.

6. Click the **Close** button to close the form.

Creating a New Priority Message Schedule

To create a new priority message schedule:

1. From the treeview, select the folder where you want the schedule to be placed.
2. Click the **New Priority Message Schedule** button.



3. Configure the following information:
   - **Enabled** — whether this schedule should be currently enabled or not.

     This feature allows you to create schedules in advance, and then enable them when the promotion starts.

     Disabling a schedule allows you to keep a schedule inactive without having to delete it, which is useful for schedules that only run during certain times of the year.
   - **Channel** — whether this schedule should play on channel 1 or 2 of the iProMOH.
   - **Start and End Date** — dates this schedule should run.
   - **Start Time** — specific time when the message will play.

- **Override Priority** — whether this schedule should override other priority message schedules within the same folder See “Override Priorities”.
- **Days of Week** — days this schedule will play.

4. In the **Scheduled and Available Audio** list, check the messages that should be played during this schedule.

   The list shown is available message files for this location in the treeview.

   You can use the **Move Item Up**  or **Move Item Down**  buttons to rearrange the order of messages. This affects the order they are played.

   You can use the **Select/Deselect All Items** button  to quickly select or deselect all messages in the list.

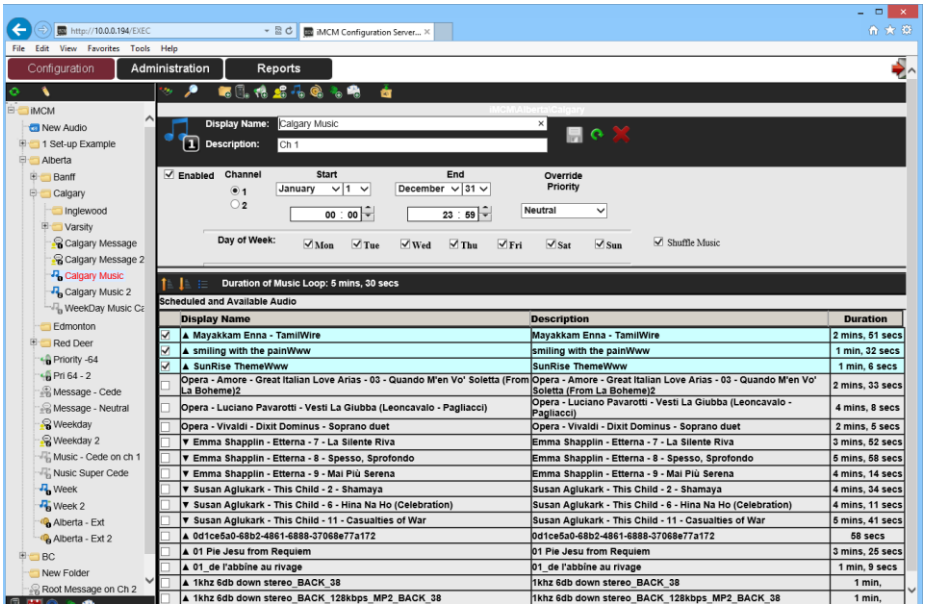
5. Click the **Save** button  to save the configuration or the **Reload** button  to refresh the screen.

6. Click the **Close** button  to close the form.

Creating a New Music Schedule

To create a new music schedule:

1. In the treeview, select the folder where you want the schedule to be placed.
2. Click the **New Music Schedule** button in the toolbar .
3. Configure the schedule information similarly to the way message schedules are configured. (See “Creating a New Message Schedule”)



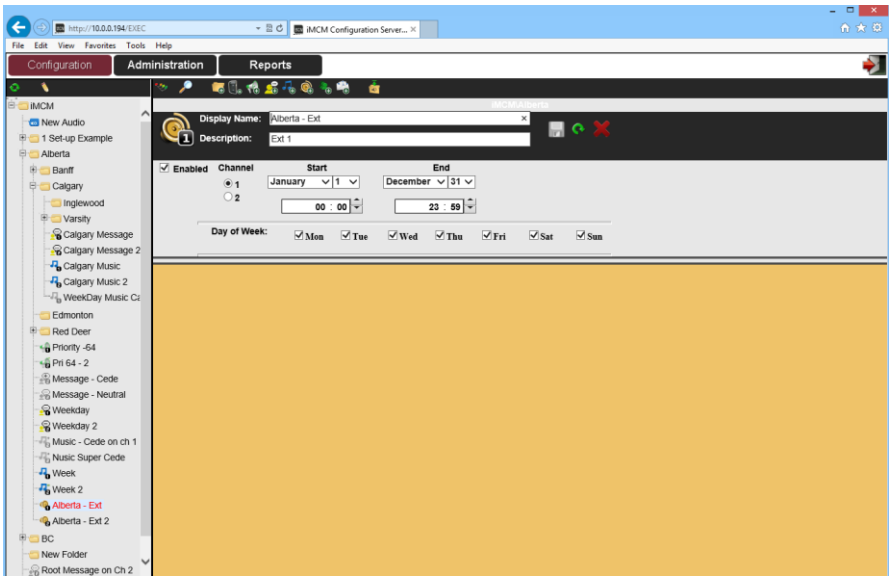
The list shown is available music files for this location in the treeview.

4. The **Shuffle Feature** will shuffle the order of the playlist. (By Default – disabled).

Creating a New External Music Schedule

To create a new external music schedule:

1. In the treeview, select the folder where you want the schedule to be placed.
2. Click the **New External Music Schedule** button in the toolbar .
3. Configure the schedule information similarly to the way message schedules are configured. (See “Creating a New Message Schedule”)



Since this is an External Music Schedule, there are no music files available to schedule.

Note *The external music feed has to be connected to the physical iProMOH device.*

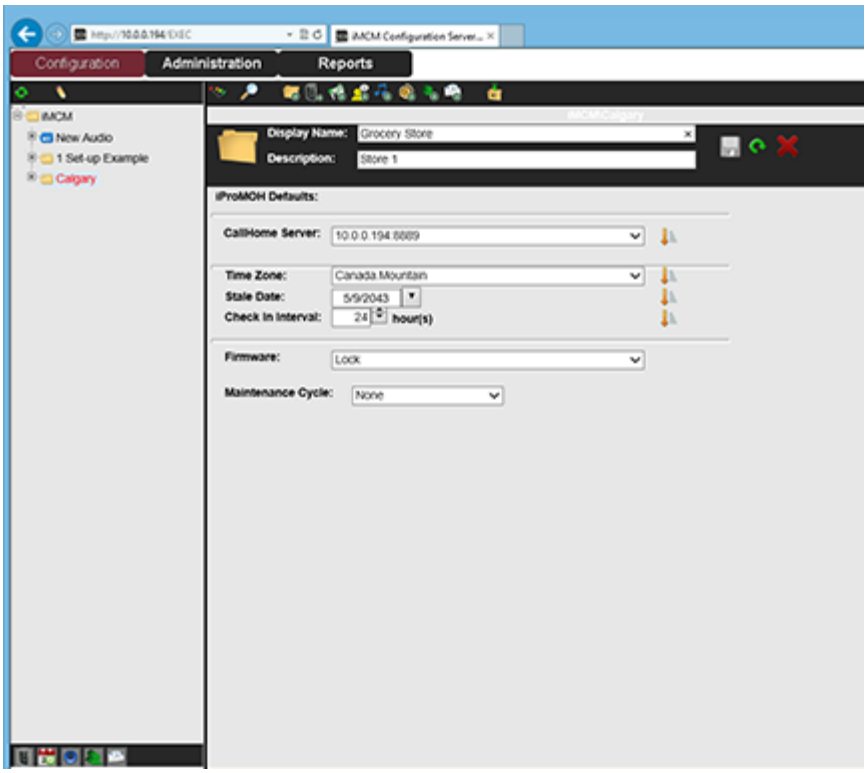
Other Examples

This section walks through the process of creating some sample schedules.

Creating a Store Folder

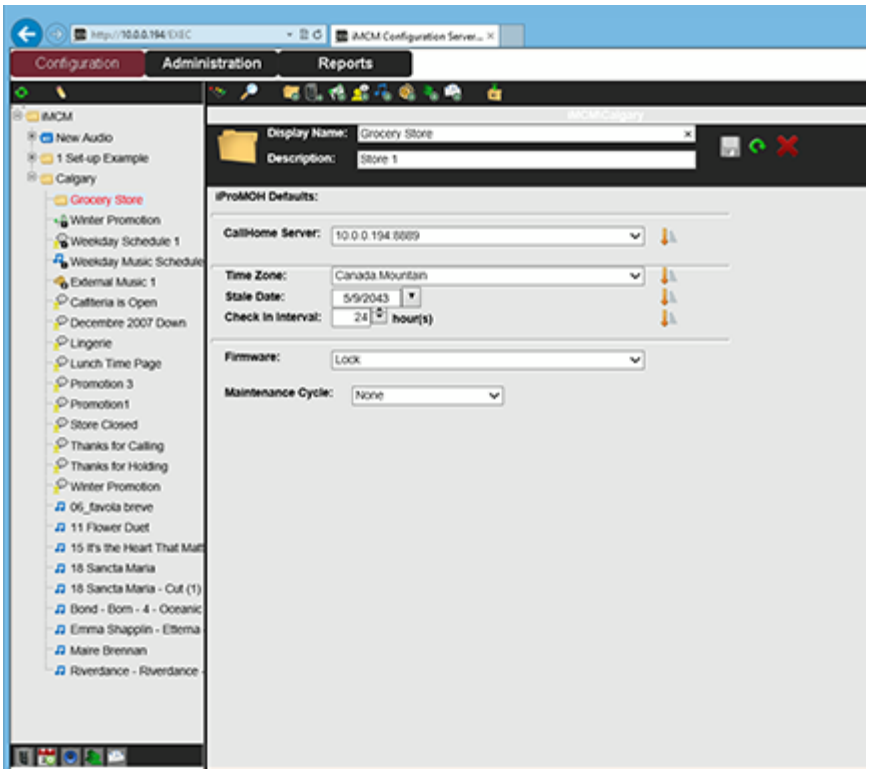
Create a folder in the treeview for our chain of stores in **Calgary**.

1. Click the Configuration tab.
2. If the treeview on the left is not currently being shown, click the **Show/Hide Tree Data** button .
3. In the treeview, select the iMCM folder.
4. Click the **New Folder** icon .



5. Set **Display Name** - Grocery Store.
6. Optionally, add a **Description** - Store 1
7. Leave the other settings set to the defaults.
8. Click the **Save** button. 

The new folder appears in the treeview.



Adding Audio to the Store Folder

Use the Service Manager to upload some audio files, as described in Chapter 5, “Uploading and Updating Media files”.

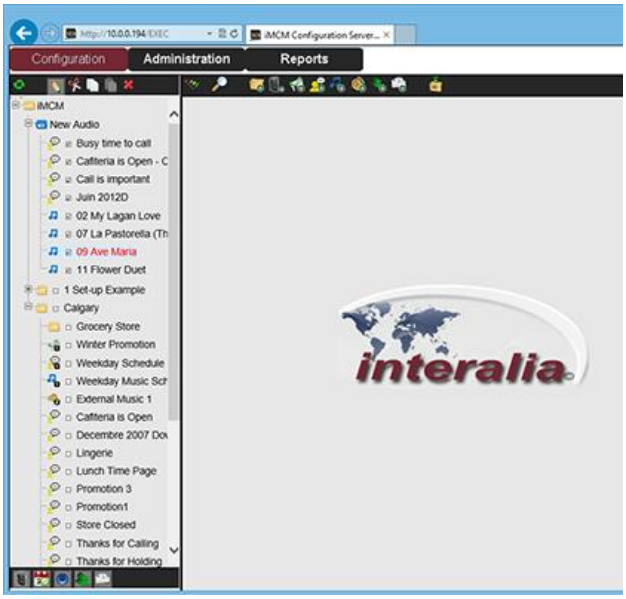
After uploading, the audio is listed under the New Audio folder in the treeview. These need to be copied to the Grocery Store folder before they can be scheduled.

Note *The lower left corner of the screen contains a panel of button that can be used to hide or show items in the treeview. For this tutorial make sure they are all selected (so they show all items).*



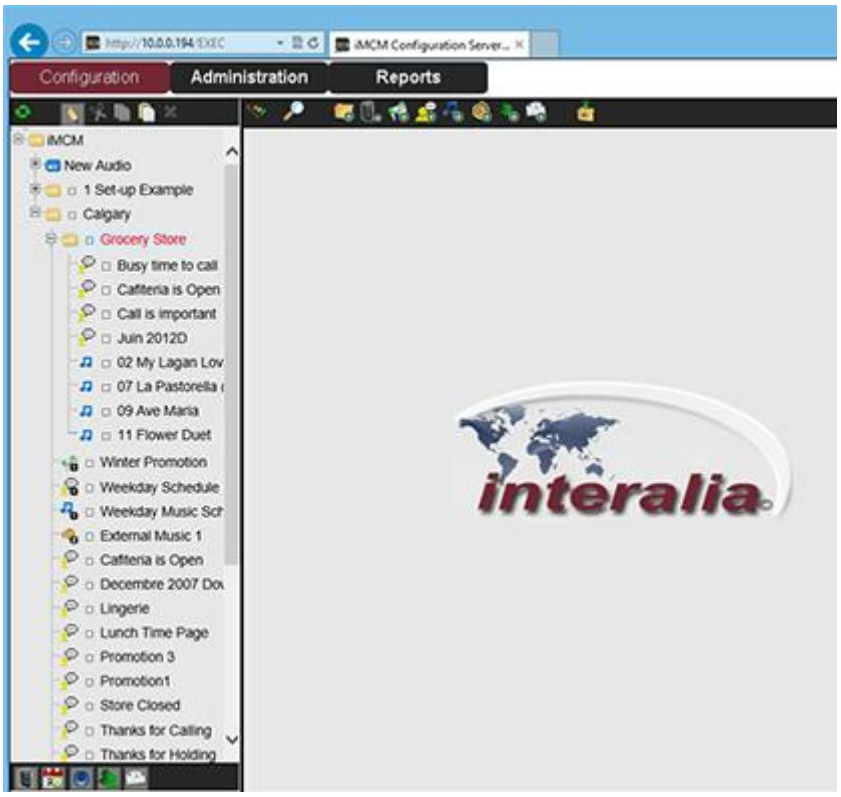
1. Click the **Toggle Edit Mode** button .
2. Click the **New Audio** folder to expand it.

   While the iMCM Web Server/iMCM Configuration Server is in edit mode, checkboxes appear beside the items in the tree.



3. Select required items in the **New Audio** folder.
4. Select the **Copy Checked Items** button .
5. Select the Grocery Store folder in the treeview.
6. Select the **Paste Checked Items** button .

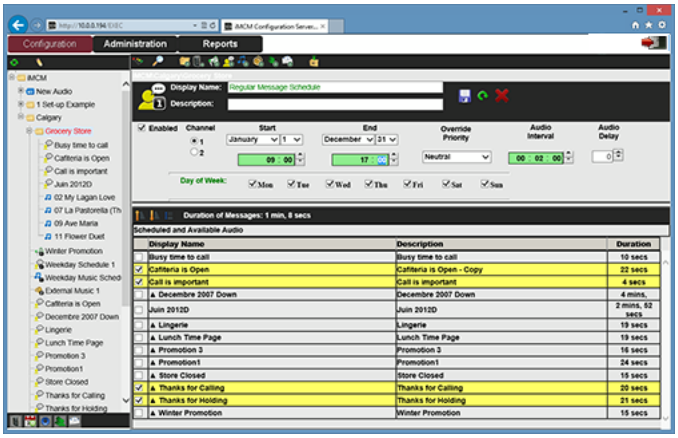
7. The audio now appears in the Grocery Store folder.



Creating a Regular Message Schedule

To create a message schedule that will play messages during the day while the stores are open.

1. Click the **New Message Schedule** button .

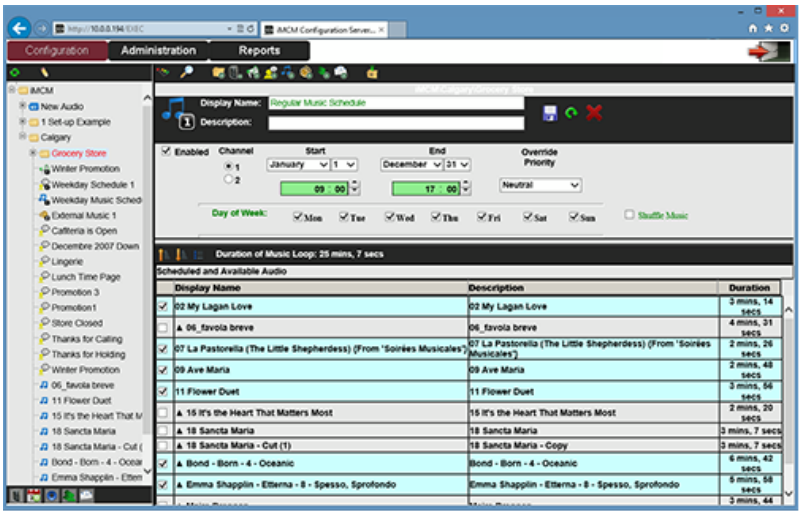


2. Set the **Display Name** to Regular Message Schedule.
3. Set the **Start time** to 09:00 and the **End time** to 17:00.
4. Set the **Audio Interval** to 00:02:00.
5. Select all the days of the week.
6. Select the messages to play.
7. Click the **Save** button .

Creating a Regular Music Schedule

To create a schedule to play music files while the stores are open.

1. Click the **New Music Schedule** button .

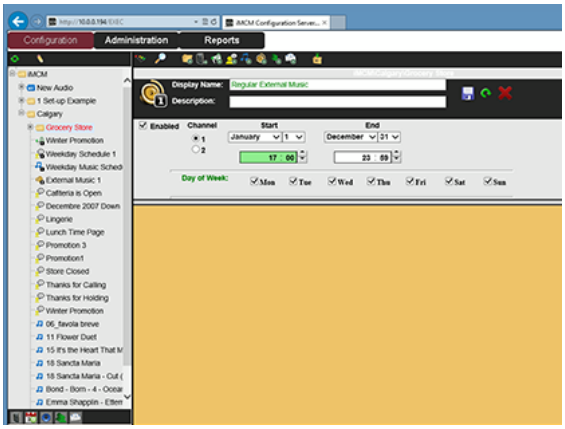


2. Set the **Display Name** to Regular Music Schedule.
3. Set the **Start time** to 09:00 and the **End time** to 17:00.
4. Leave **Override Priority** set to Neutral.
5. Select all the days of the week.
6. Click the **Save** button 

Creating an External Music Schedule

To create an external music schedule after-hours. (Licensed)

1. Click the **New External Music In** button .

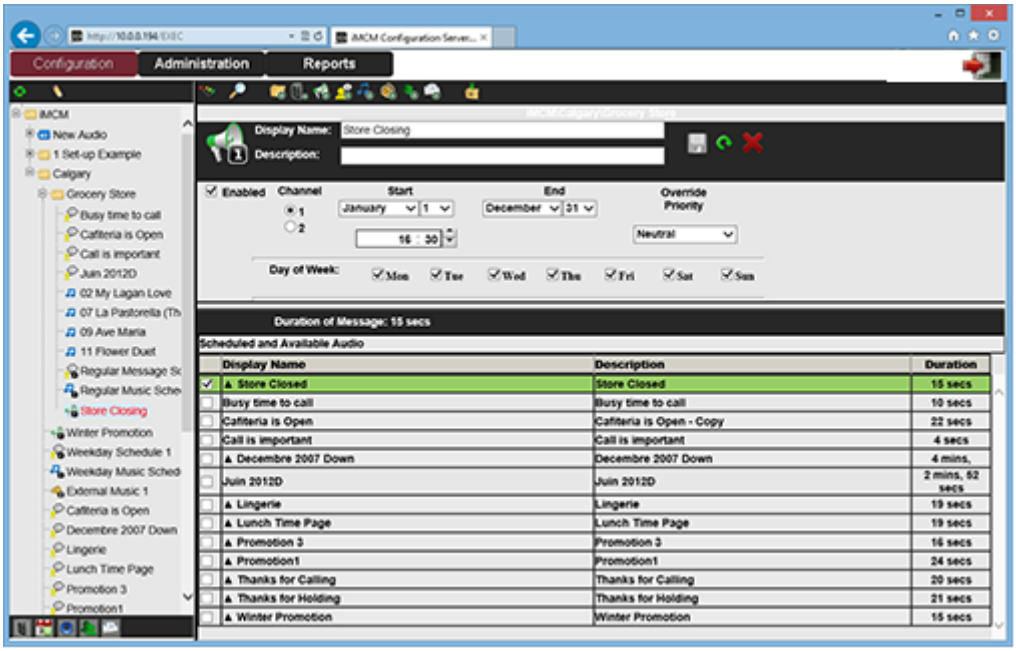


2. Set the **Display Name** to Regular External Music In Schedule.
3. Set the **Start time** to 17:00 and the **End time** to 23:59.
4. Select all the days of the week.
5. Click the **Save** button .

Creating a Priority Message Schedule

Create a schedule to play a message at a fixed time.

1. Click the **New Priority Message Schedule** button .



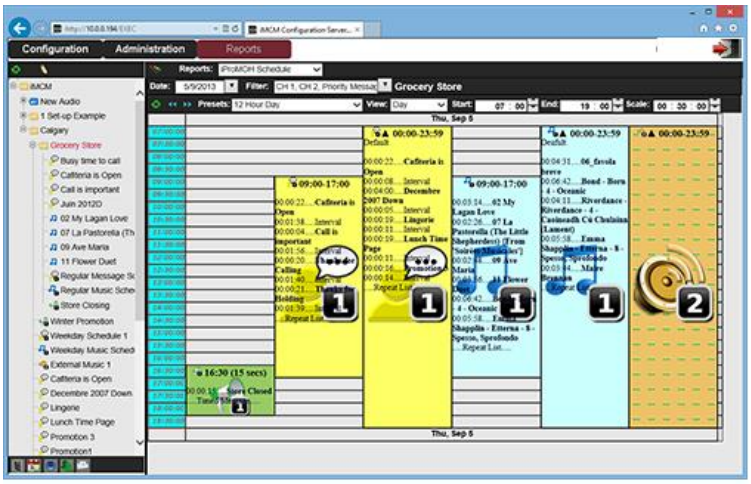
2. Set the **Display Name** to Store Closing.
3. Set the **Start time** to 16:30.
4. Select all the days of the week.
5. Leave **Override Priority** set to Neutral.
6. Select the Store is closed message file.
7. Click the **Save** button. 

Viewing the Schedule

To view the schedule:

1. Click the **Reports** tab.
2. In **Reports**, select **iProMOH Schedule**.
3. In **Presets**, select **12 Hour Day**.
4. Set **Start** to 07:00 and End to 19:00.
5. Click **Refresh** button .

The report shows the schedule for a day.



Note *It shows all the schedules we have created so far. Schedules on the left have priority over schedules on the right.*

Adding a Sub-Folder for a Different Location

Now add a sub-folder for a store location that will have slightly different schedules.

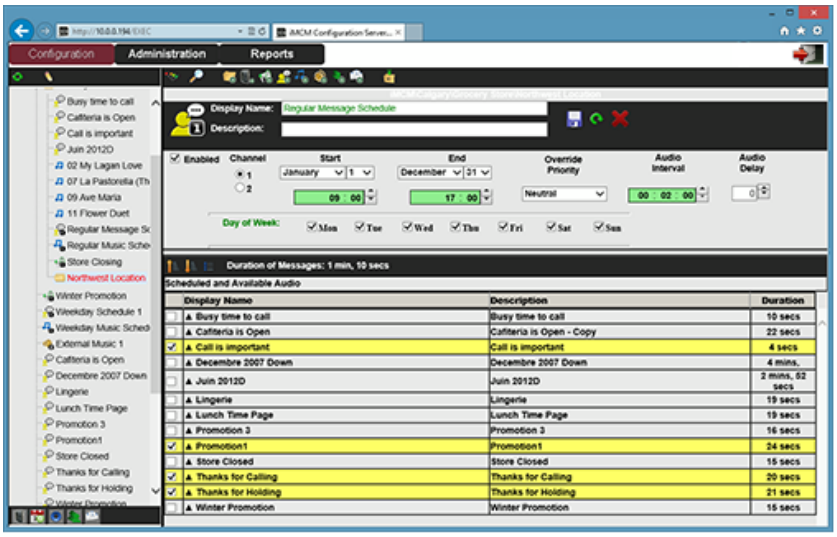
The iMCM's inheritance means that this location will automatically inherit items from the parent folder but also enable us to add and override specific schedules we want to change for this location only.

1. Click the **Configuration** tab.
2. In the treeview, select the Grocery Store folder.
3. Click the **New Folder** button .
4. Set **Display Name** to Northwest Location.
5. Leave the other settings set to the defaults.
6. Click the **Save** button .

Adding a Location-Specific Regular Message Schedule

To add a regular message schedule to the Northwest Location folder:

1. In the treeview, select the Northwest Location folder.
2. Click the **New Message Schedule** button .



3. Set the **Display Name** to Regular Message Schedule.

Note *This is the same name that we used for the message schedule in the Grocery Store folder.*

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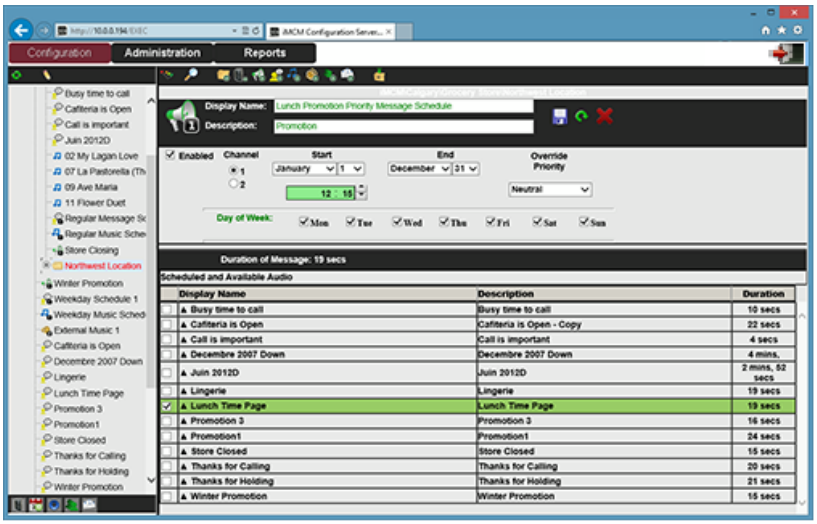
4. Set the **Start time** to 09:00 and the **End time** to 17:00.
5. Set the **Audio Interval** to 02:00.
6. Select all the days of the week.
7. Select the messages to play.
8. Click the **Save** button .
9. Click **OK**.

Note *This schedule has exactly the same name as the schedule in the parent folder, so it will override it.*

Adding a Location-Specific Priority Message Schedule

To add a priority message schedule that will only play in this location:

1. In the treeview, select the Northwest Location folder.
2. Click the **New Priority Message Schedule** button. 



3. Set the **Display Name** to Lunch Promotion Priority Message Schedule.
4. Set the **Start time** to 12:15.
5. Select all the days of the week.
6. Select the Lunch Promotion message file.
7. Click the **Save** button .

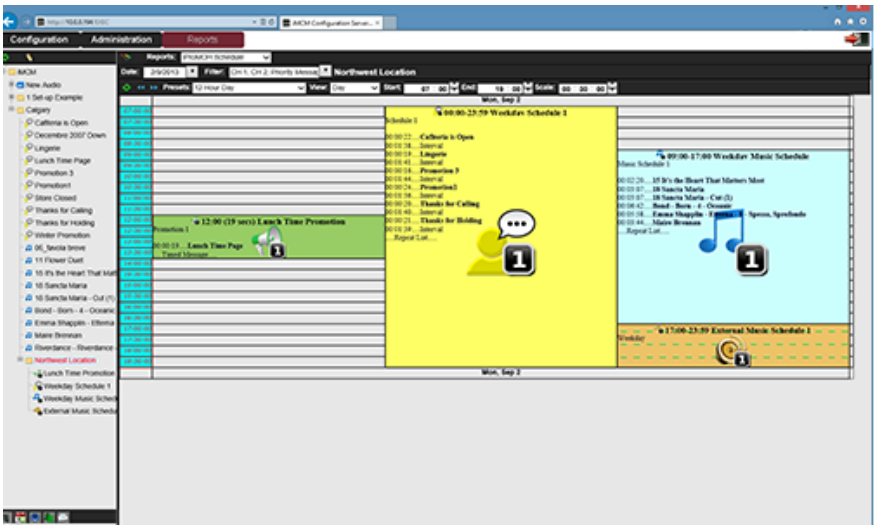
Note *This schedule name is different from any in the parent folder, so it will play in addition to the ones in the parent folder.*

Viewing the Location-Specific Schedule

To view schedule for this location:

1. Click the **Reports** tab.
2. In the treeview, select the Northwest Location folder.
3. In **Reports**, select iProMOH Schedule.
4. In **Presets**, select 12 Hour Day.
5. Set **Start** to 07:00 and **End** to 19:00.
6. Click the **Refresh** button .

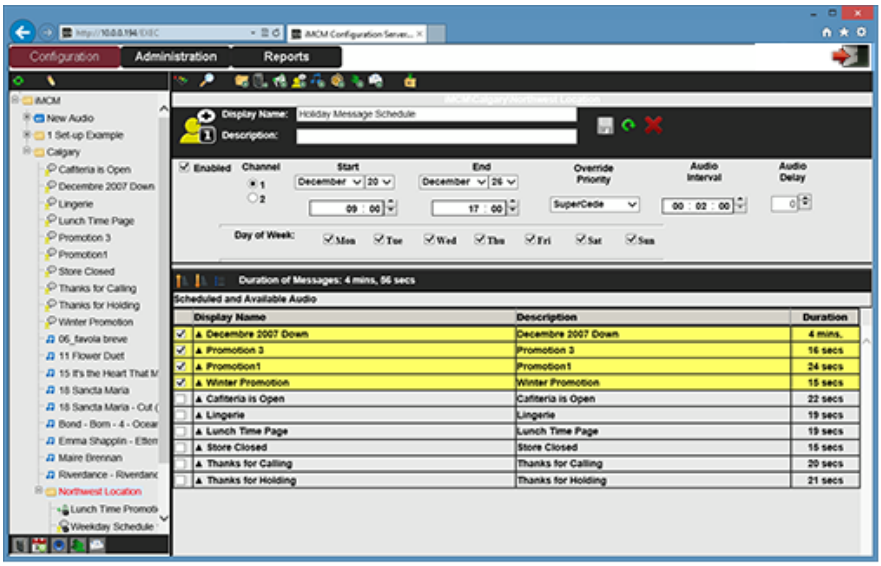
The report now shows the schedule for a day for this location.



Creating a New SuperCede Schedule

Create a schedule that will override the regular schedule for a specific date range.

1. In the treeview, select the Northwest Location folder.
2. Click the **New Message Schedule** button .



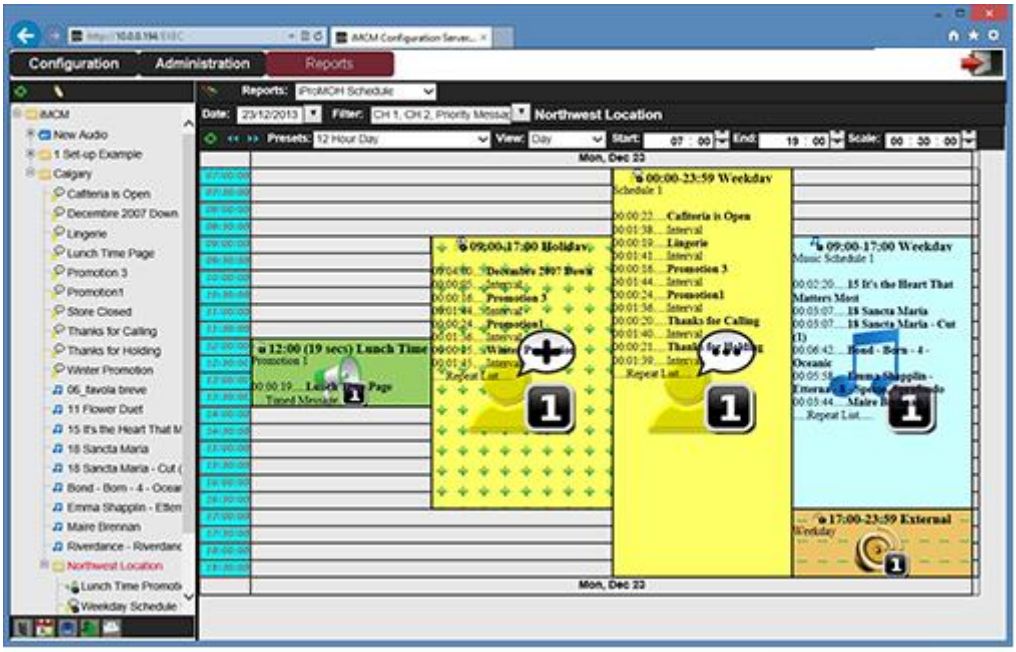
3. Set the **Display Name** to Holiday Message Schedule.
4. Set the **Start date** to December 20 and the **End date** to December 26.
5. Set the **Start time** to 09:00 and the **End time** to 17:00.
6. Set the **Override Priority** to SuperCede -this will override any schedules that have Neutral or Cede priority.
7. Set the **Audio Interval** to 00:02:00.
8. Select all the days of the week.
9. Select the audio files to play for holiday promotion.
10. Click the **Save** button .

Viewing the Schedule

To view the schedule for the holiday period:

1. Click the **Reports** tab.
2. In the treeview, select the Northwest Location folder.
3. In **Reports**, select iProMOH Schedule.
4. Set the **Date** to December 23.
5. In **Presets**, select 12 Hour Day.
6. Set **Start** to 07:00 and **End** to 19:00.
7. Click the **Refresh** button .

The report now shows the schedule for a day during the holiday period.



Note: The holiday schedule, with an override priority of SuperCede, has overridden the regular schedule.



Success Checkpoint

At this point, if you connect speakers to the iProMOH you should hear it playing the audio as per the schedules.

CHAPTER 7 | *Reports*

This chapter describes the types of reports in iMCM and how to view them.

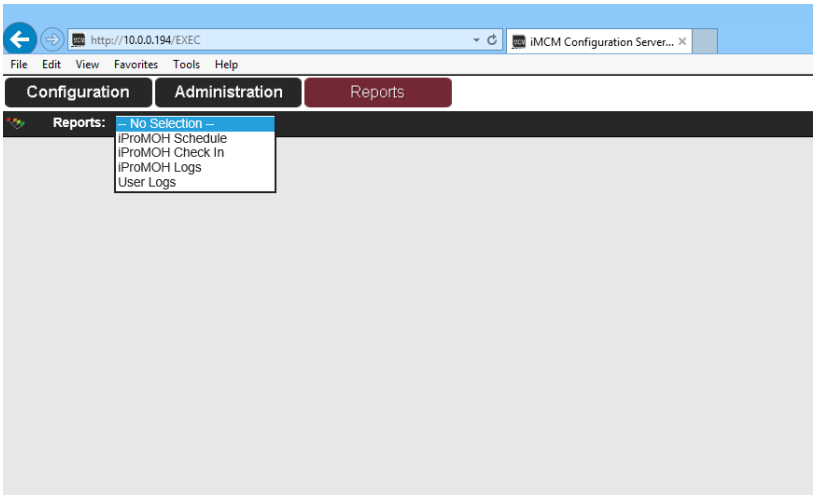
In This Chapter

- “Types of Reports and How to view them”

Reports in iMCM Web Server/iMCM Configuration Server

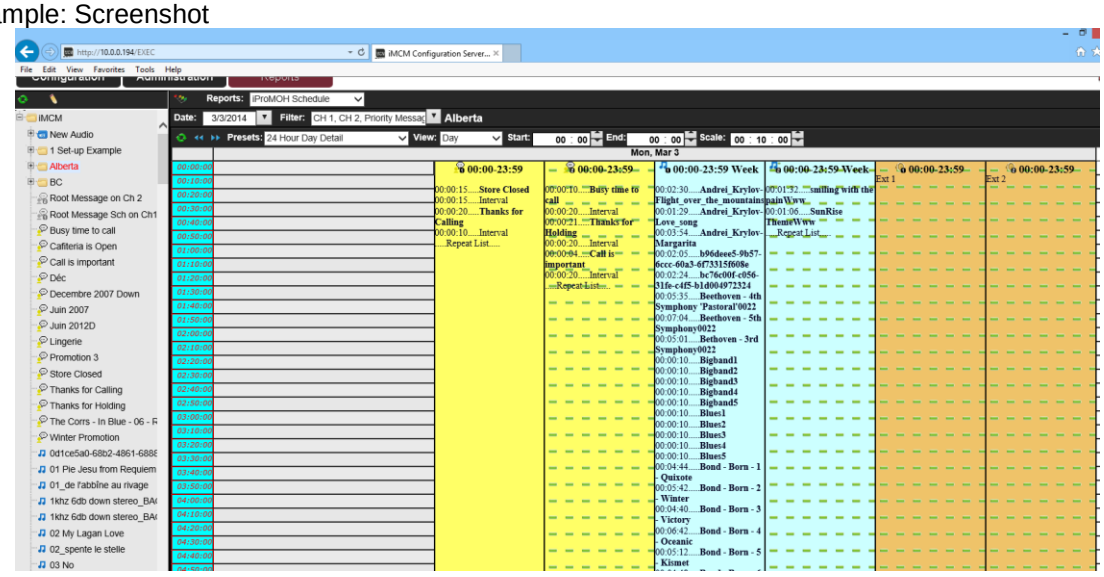
To view different types of reports:

1. Select **Reports Tab** on the iMCM Web Server/iMCM Configuration Server.
2. Select **Drop down box** from Reports field.



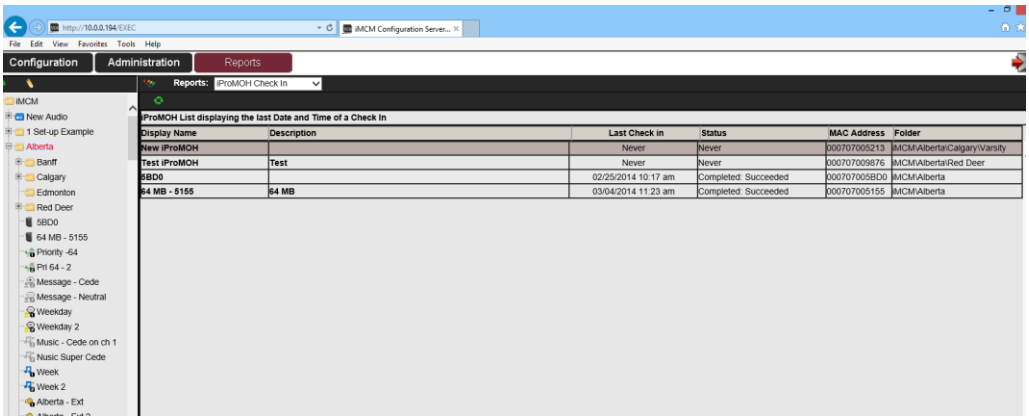
3. These reports are mainly used for troubleshooting purposes.
4. **iProMOH Schedule:**
   This is a detailed report of the schedule configuration for the **Alberta** folder. Utilize filters to view specific segments of the schedule.
   a. Select **iProMOH Schedule** from drop down list.
   b. Double click the **Alberta** folder from treeview. The iProMOH Schedule page displays the Schedule information.
   c. **Date**: view the schedule for selected date.
   d. **Filter**: filter by Ch1, Ch2, Priority Message, Music, Message and External Music In.
   e. **Presets**: filter by Week, day, 12 hour day, 1 hour, 15 min., 5 min. etc.
   f. **View**: view by Day or Week.
   g. **Start/End time**: view the schedule information between these times.
   h. **Scale**: it is used to display the schedule with selected time scale (eg. 5 min, 10 sec etc...)
   i. Select  icon to view schedule for Previous and Next day/week.
   j. Select  icon to generate a schedule when applying filters or changing a date.

Example: Screenshot



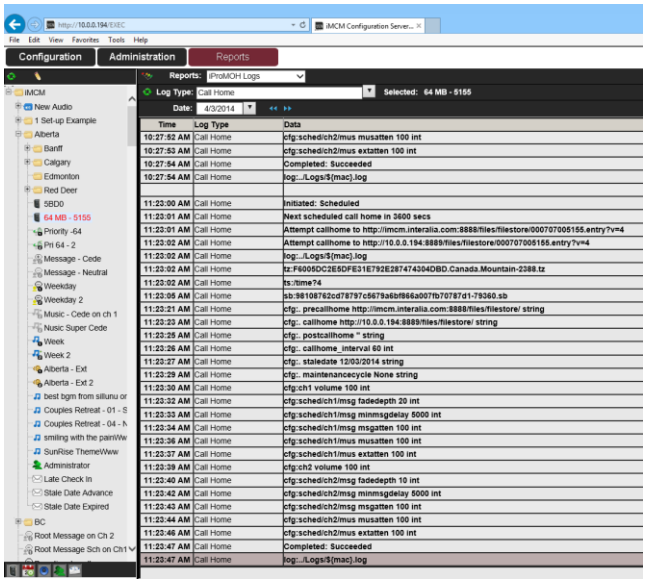
5. **iProMOH Check In**:
   This report will display the iProMOH check in information.
   a. Select **iProMOH Check In** from drop down list.
   b. Double click the **Alberta** folder from treeview.
   c. It will display the check in information for the iProMOHs which are located in that specific folder.

Example: Screenshot



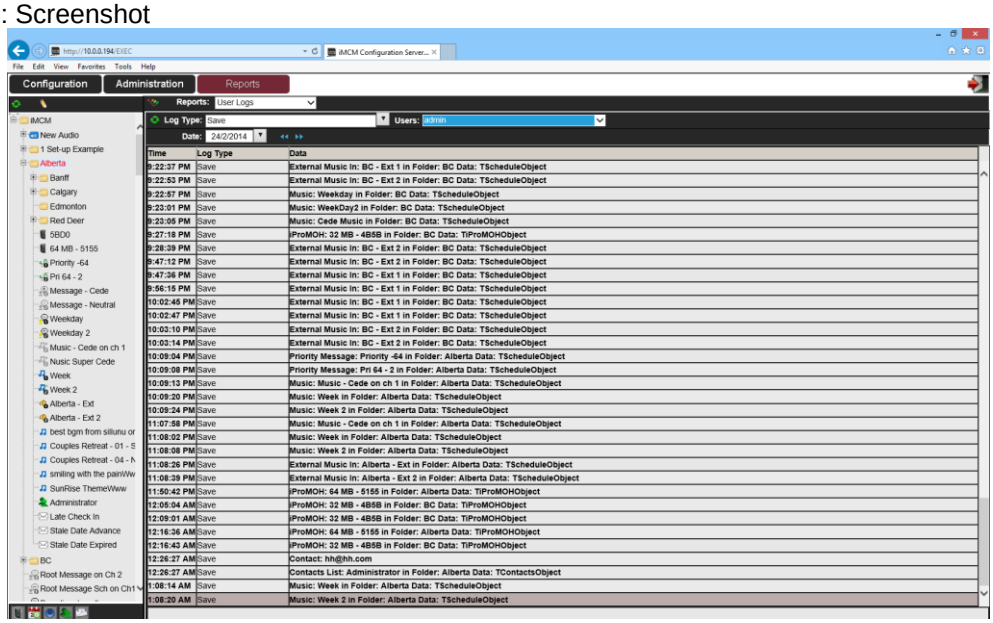
6. **iProMOH Logs**:
   This report will display the iProMOH logs and will update each time the iProMOH checks in. The logs are used for trouble shooting purposes.
   a. Select **iProMOH Logs** from drop down list.
   b. Double click a specific iProMOH from the treeview.
   c. The iProMOH Logs page displays logs for the selected iProMOH.
   d. **Log Type**: Select different log types from the drop down list.
   e. **Date**: Displays the logs a specific date.
   f. Select  icon to view logs for Previous and Next day.
   g. Select  icon to generate a log report, when applying filters or changing the date.

Example: Screenshot



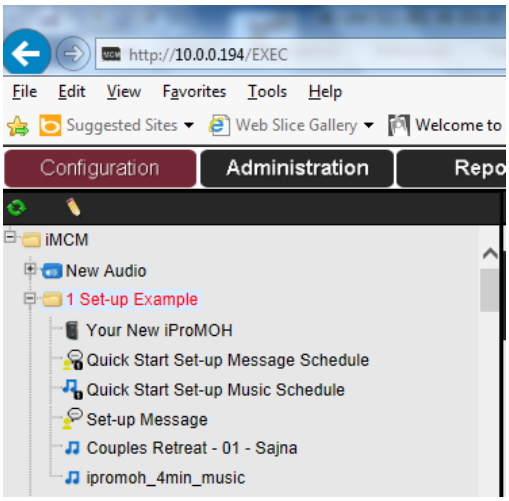
7. **User Logs:**
   The User Logs will display the information about user activities in the iMCM Web Server/iMCM Configuration Server.
   a. Select **User Logs** from the drop down list.
   b. Double click the **Alberta** folder from the treeview.
   c. **Log Type**: Select different log types from the drop down list to view the specific types of logs.
   d. **Date**: It will display the logs for a specific date.
   e. Select  icon to view the logs for Previous and Next day.
   f. Select  icon to generate a log report, when applying filters or changing a date.
   g. **Users**: Displays logs for specific users (Only admin can view the logs for all the users).

Example: Screenshot



1 Set-up Example

Sample audio files and schedules are already configured in the 1Set-up Example folder.



CHAPTER 8 | *Contacts and Notifications*

This chapter describes how to configure contacts and notifications.

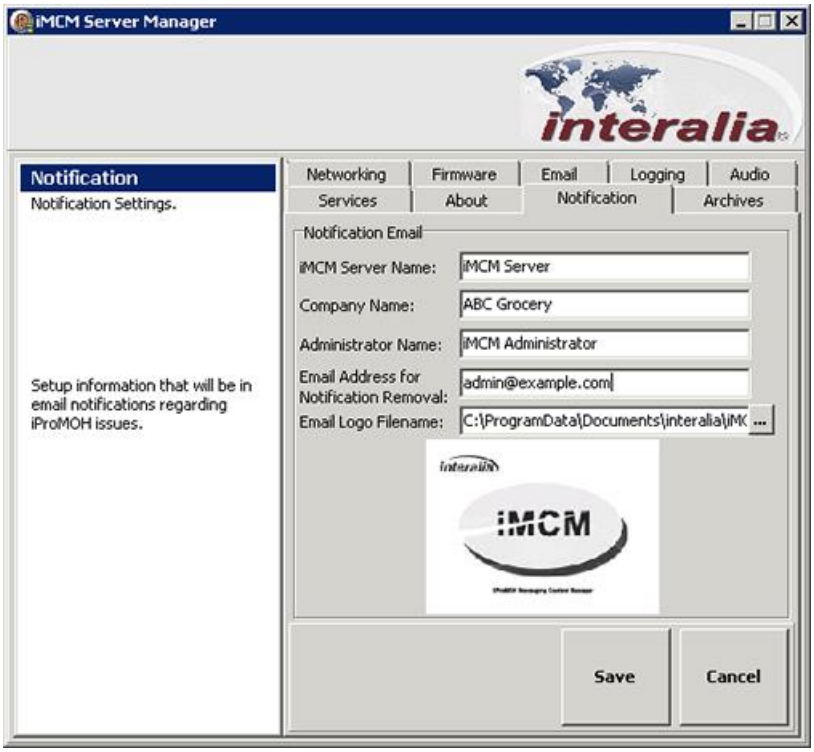
In This Chapter

- “Configuring Notification Settings”
- “Creating Contacts Lists”
- “Creating Notifications”

Configuring Notification Settings

To configure the notification settings:

1. In the Service Manager, select the **Notification** tab.



2. Configure the following settings:

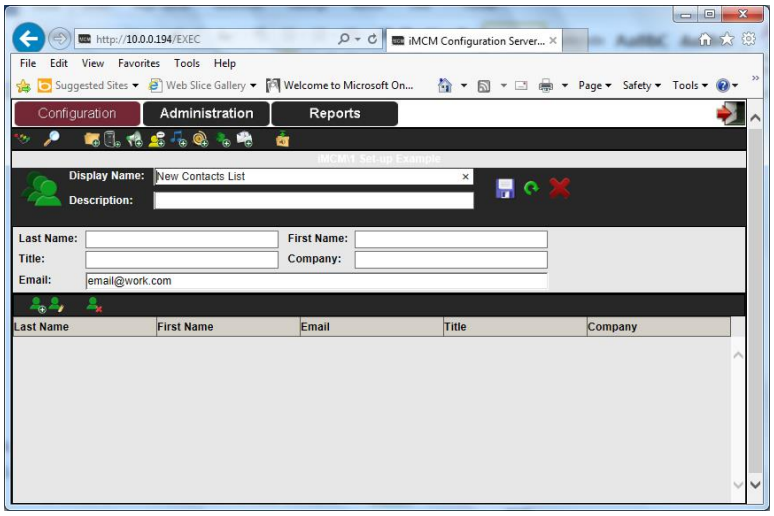
Setting	Function
iMCM Server Name	The name of the iMCM server, used to identify which server is sending the notification.
Company Name	The company name, used to identify the company which is operating the iMCM server.
Administrator Name	The administrator name, as seen in the notifications.
Email Address for Notification Removal	The email address that recipients can reply to be removed from notifications.
Email Logo Filename	The logo to attach to notifications. -must be an Icon type file and 32 x 32, 64 x 64, or 128 x 128 bits.

3. Click **Save** to save the settings, or **Cancel** to discard changes.

Creating Contacts Lists

To create a list of contacts:

1. Open the iMCM Web Server/iMCM Configuration Server.
2. In the treeview, select the folder to assign contacts.
3. Click the **New Contacts List** button in the toolbar .

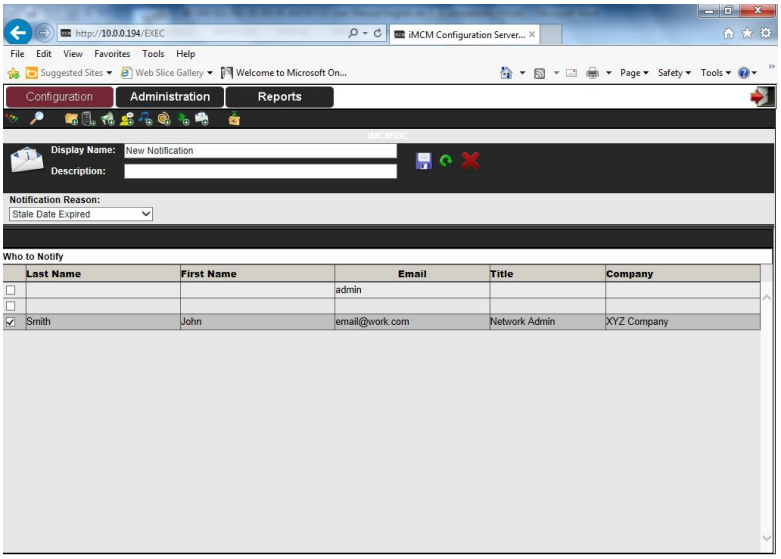


4. Enter a **Display Name** and optional **Description**.
5. Use the buttons above the list of contacts.
   - To create a new contact, click the **Add Contact** button.
   - To edit a new contact, select the user in the list and click the **Edit Contact** button.
   - To delete a contact, select the user in the list and click the **Delete Contact** button.
6. For each user, configure the following information:
   - **Last Name** - contact's last name.
   - **First Name** - contact's first name.
   - **Title** - contact's title.
   - **Company** - contact's company.
   - **Email** - contact's email address.
7. Click the Save button to save the changes or the Reload button to refresh the screen.
8. Click the Close button to close the page.

Creating Notifications

To create a notification:

1. Open the Configuration Server.
2. Click the **New Notification** button .



3. Configure the following information:
   - **Display Name** - name that will be shown in the treeview.
   - **Description -** optional description.
   - **Notification Reason** - types of notification:
     - **Stale Date Advance** - advance email notification of the stale date.
     - **Stale Date Expired** - notification email is sent when the stale date is reached.
     - **Late Check In** - iProMOH did not check in on the set interval.

       Use the **Grace Period** setting to determine how many minutes should elapse before the notification is given. For example: If the late check in is set up for 30 min. then an email will be sent after **Check Interval** time plus the 30 minute grace period has passed.
4. Select the people who should receive the notification by selecting their names in the **Who to Notify** list.
5. Click the Save button  to save the configuration or the Reload button  to refresh the screen.
6. Click the Close button  to close the page.

CHAPTER 9 | *Administration and User Accounts*

You can create different user accounts on the Configuration Server to give different users varying levels of permissions.

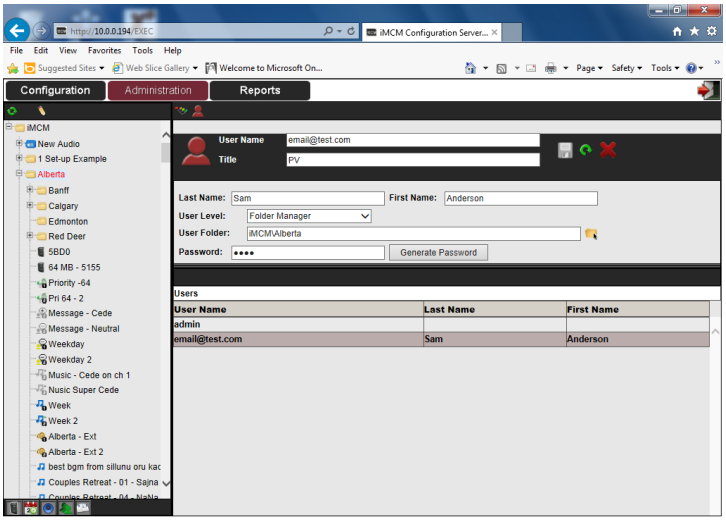
In This Chapter

- “Using the Administration Tab”
    - “User Levels”

Using the Administration Tab

To edit or create a user account:

1. On the iMCM Server/iMCM Configuration Server, click the **Administration** tab.
2. To create a new user, click the Add User button .
3. To edit an existing user, select the user in the list and click the **Edit User** button .



4. Configure the following information:
   - **User Name** - user's email address. This is what they will use to log in with.
   - **Title** - user's title.
   - **Last Name** - user's last name.
   - **First Name** - user's first name.
   - **User Level** - user's privilege level. See "User Levels".
   - **User Folder** - folder the user is restricted to. See "User Levels".
   - **Password** - enter password or select **Generate Password** to have a password generated automatically and emailed to the user.
5. Click the **Save** button  to save the changes or the **Reload** button  to refresh the screen.
6. Click the **Close** button  to close the page.

User Levels

There are five different user levels.

User Level	Privilege
Administrator	The highest level of access. Has access to iMCM Service Manager, can create users, and can access all features.

User Level	Privilege
Content Manager	Is assigned as the Manager of a Folder and all folders and files within that folder. • Can create and edit files and folders, view all reports as well as upload music files at the iMCM Web server level. • Cannot enable Maintenance cycle and view Request Reset feature. • Cannot view User Logs for other users. • Cannot view other folders other than assigned folder. • Cannot view other Users information from Admin page.
Folder Manager	Is assigned as the Manager of a Folder and all folders and files within that folder. • Cannot edit sensitive parameters of iProMOH units (such as CallHome Address, Time Zone, Stale Date, Check in Time and Fade Level). • Can edit attenuation Parameters if it is already enabled. • Can create new folders but cannot edit settings. • Can view all reports. • Cannot upload audio files.
End User	Is assigned as a user at a specific folder level (and all folders within that folder). • Can create and modify schedules with available audio files, enable and disable schedules, and view reports. • Cannot add additional audio files. • Does not have access to advanced editing (copy, paste, delete).
Reports Only	Has read-only access. • Can only see schedule reports and has no editing capabilities.

The following table details exactly what each level can and cannot do.

Ability	Reports Only	End User	Folder Manager	Content Manager	Administrator
Device Properties					
Edit Device Server	✗	✗	✗	✓	✓
Edit Time Zone	✗	✗	✗	✓	✓
Edit Firmware	✗	✗	✗	✓	✓
Edit Stale Date	✗	✗	✗	✓	✓
Edit Check in Interval	✗	✗	✗	✓	✓
Create iProMOHs	✗	✗	✓	✓	✓
Edit iProMOH Volume	✗	✗	✓	✓	✓
Edit iProMOH Attenuation Parameters	✗	✗	✓	✓	✓
Edit iProMOH Fade Level	✗	✗	✗	✓	✓

Ability	Reports Only	End User	Folder Manager	Content Manager	Administrator
Audio Properties					
Upload Audio Files	✗	✗	✗	✓	✓
Administrator Properties					
Add Users	✗	✗	✗	✗	✓
Delete Users	✗	✗	✗	✗	✓
Edit Other Users	✗	✗	✗	✗	✓
View Admin Page	✗	✓	✓	✓	✓
Folders					
View New Audio Folder	✗	✗	✗	✗	✓
Create Folders	✗	✗	✓	✓	✓
Edit Root Folder (i.e. IMCM Folder)	✗	✗	✗	✗	✓
Edit Folder Tree (i.e. use pencil icon)	✗	✗	✓	✓	✓
Restricted Folder View	✓	✓	✓	✓	✗
Schedules					
Edit Schedules	✗	✓	✓	✓	✓
Create Schedules	✗	✓	✓	✓	✓
Enable Disabled Schedules	✗	✓	✓	✓	✓
Contact Lists					
Create Contact Lists	✗	✓	✓	✓	✓
Notifications					
Create Notifications	✗	✓	✓	✓	✓
Reports					
View Schedule Report	✓	✓	✓	✓	✓

Ability	Reports Only	End User	Folder Manager	Content Manager	Administrator
View Check in Report	✗	✓	✓	✓	✓
View iProMOH Logs	✗	✓	✓	✓	✓
View User Logs	✓	✓	✓	✓	✓
View User Logs for all Users	✗	✗	✗	✗	✓
View Report Page	✓	✓	✓	✓	✓
Configuration					
View Configuration Page	✗	✓	✓	✓	✓

Note *Some items will be hidden in the user interface if the user does not have sufficient privileges to use them.*

CHAPTER 10 | *Archiving and Logging*

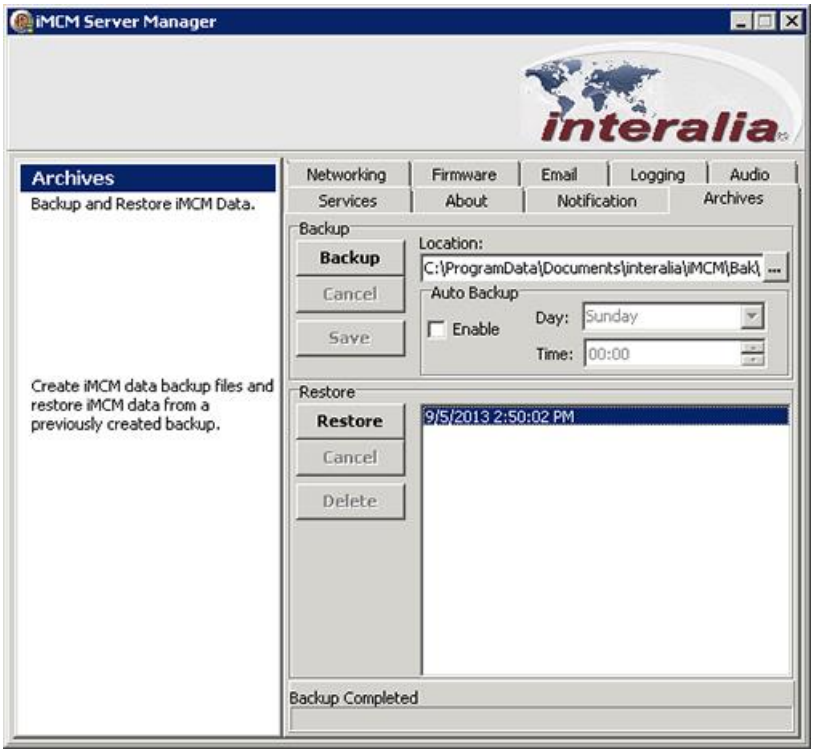
This chapter describes how to use the Service Manager to configure archiving and logging.

In This Chapter

- “Archiving”
- “Configuring Logging Settings”

Archiving

The **Archives** tab is used to create and restore a backup of all your music files, message files, and configurations.



Creating a backup file manually

Create a backup:

1. Select the Location where the archive should be saved.
2. Click **Backup**.

If you want to cancel the backup, click cancel.

Creating a backup file automatically

Automatically create a backup:

1. Select **Enable** in the **Auto Backup** section.
2. Select the **Day** and **Time** for the backup to be made.
3. Click **Save**.

Restoring a backup file

Restore a backup:

1. Select the backup file in the list.
2. Click **Restore**.

Note *This feature should only be used, if your PC crashes and all files are lost*

Deleting a backup file

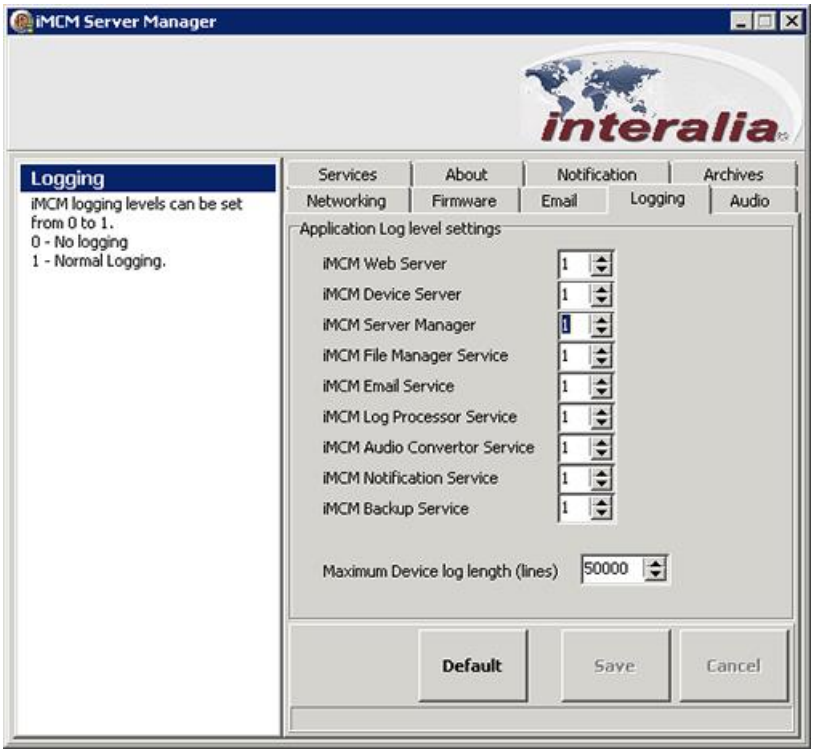
Delete a backup:

1. Select a backup file in the list.
2. Click **Delete**.

Configuring Logging Settings

The iMCM Server can save logs of various services. (The logs are only for use by Interalia Technical Support.)

1. Select the **Logging** tab.



2. For each service, set the logging level to either 0 or 1.
   - 1 enables logging and 0 turns it off.
   - Maximum Device Log Length (lines) – Maximum number of logs (lines) created

---

Note *The maximum number of lines is 100,000*

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3. Click **Save** to save the settings, **Cancel** to discard changes, or **Default** to revert to the default settings.

CHAPTER 11 | *Updates*

This chapter describes how to update iProMOH firmware and iMCM.

Note *For information on available updates, please check http://interalia.ipower.com/firmware/*

In This Chapter

- "Uploading New iProMOH Firmware"
- "Deploying Firmware"
- "Updating iMCM"

Uploading New iProMOH Firmware

To upload new firmware for the iProMOH:

1. In the Service Manager, select the **Firmware** tab.



2. Click **Install Firmware**.
3. Browse to an iProMOH Firmware file (.XMF or .APK) and click Open.

Note *Install the firmware on the iMCM Service Manager. The deployment of the firmware is managed through the iMCM Web Server/iMCM Configuration Server. See Deploying Firmware below.*

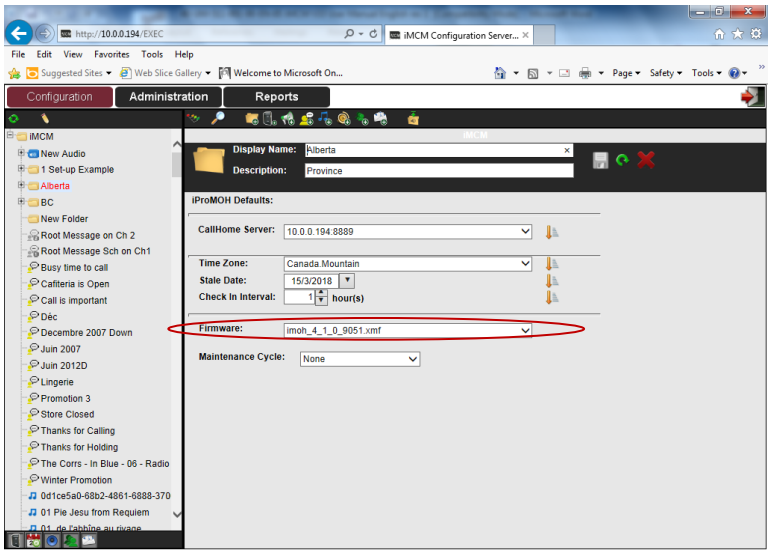
If you need to remove a firmware version from iMCM Service Manager:

4. Select the firmware upgrade in the **Installed Firmware** list.
5. Click **Remove Firmware**.

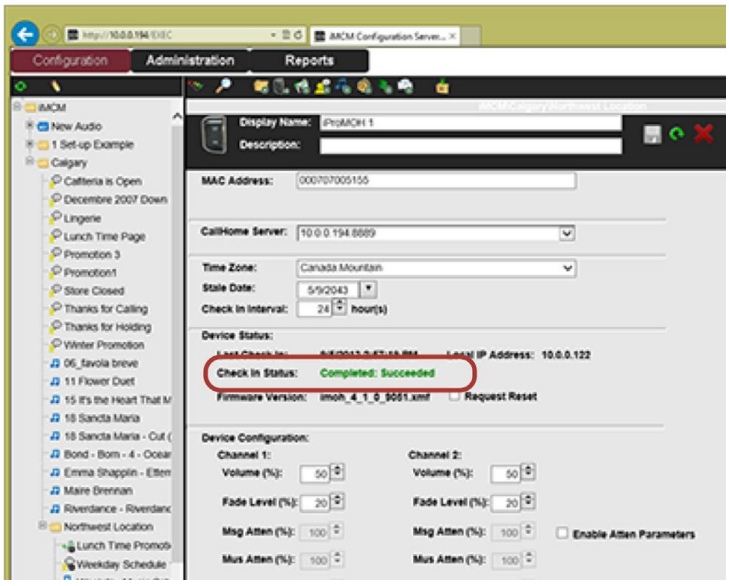
Deploying Firmware

To deploy the new firmware to iProMOHs:

1. In a web browser, open the iMCM Web Server/iMCM Configuration Server.
2. Select the folder which contains the iProMOH to be updated
3. In the **Firmware** list, select the firmware to be deployed.



The iProMOH firmware update will occur on the next call home. To verify the update, check the device status (firmware version) on the iProMOH page on iMCM Web Server/iMCM Configuration Server.



Updating iMCM

To update iMCM, uninstall the old version first and then install the new version.

- Choose Start > Programs > Interalia > iMCM > Uninstall iMCM.

This will not delete settings or uploaded audio files.

After installing the new version, make sure all the services are re-started.

Appendix A | *Notes*

This appendix provides a place to record important information about your system.

Item	IP Address	Port
Device Server - external address		
Device Server - local address		
Configuration Server		

iProMOH Location	MAC Address	Serial Number

Appendix B | *Other Ways To Locate iProMOH – V4's*

By default, an iProMOH is set to obtain its IP address dynamically (via DHCP) so its address is unpredictable. There are several methods you can use to find its IP address and configure it.

Chapter 4, "iProMOH Setup and Configuration" lists the recommended methods. This appendix lists alternative methods that can be used.

In This Appendix

- "Method One" - Using a Direct Ethernet Connection"
- "Method Two" - Finding the iProMOH on the Network"

APPENDIX B | Other Ways To Locate iProMOH – V4's

Method One - Using a Direct Ethernet Connection

You can also connect via an Ethernet cable from your computer to the iProMOH.

1. Connect an Ethernet cable from your computer to the iProMOHs Ethernet port.
   - If your computer supports automatic crossover detection you can use a normal Ethernet cable.
   - If your computer does not support automatic crossover detection then you will need a crossover Ethernet cable.
2. Unplug the power cable from the iProMOH and then plug it back in.
3. Wait until the iProMOH has finished initializing (the status light on the back is no longer solid amber).

   This may take several minutes.
4. Access the Local Area Connection Properties:
   - On Windows 7:
     - Choose **Start** menu > **Control Panel** > **Network and Internet** > **Network Connections** > **Local Area Connection**.

5. Select the connection item:
   - On Windows 7:
     - Choose **Local Area Connection Properties** > **Internet Protocol Version 4 (TCP/ IPv4) Properties**.
6. Modify the IP address setting in the Internet Protocol Version 4 (TCP/IPv4) Properties:
   - On Windows 7:
     a. Select. **Use the following IP address**
     b. Enter the address: **192.168.1.3**
     c. Click **OK**.
7. Open a web browser and open the URL *http://192.168.1.2*

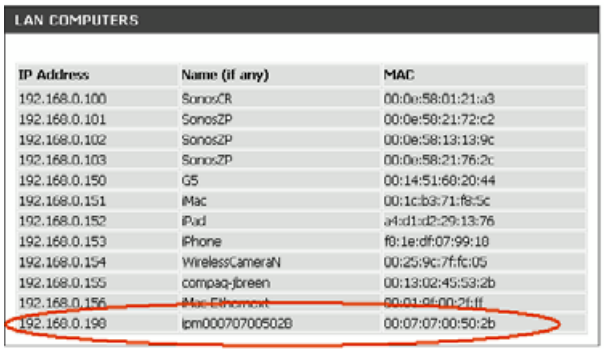
Note *An iProMOH that is not connected to a network will default to the known IP address 192.168.1.2 after a power cycle even though the Address Type is set to DHCP.*
This default iProMOH IP Address value is cleared whenever it is connected to a network and the device is set to DHCP mode.

---

8. Use the Installer Website Application web page to configure the iProMOH. See Chapter 4, "iProMOH Setup and Configuration".
9. Close the web browser upon completion.
10. Modify the IP address back to the original setting in the Internet Protocol Version 4 (TCP/IPv4) Properties:
    - On Windows 7:
      a. Select **Obtain an IP address automatically**.
      b. Click **OK**.
11. Disconnect the iProMOH from the computer and reconnect it to the network.

Method Two - Finding the iProMOH V4 on the Network

1. If the iProMOH is connected to the network you can find its IP address by looking for its MAC address in your lease table of connected devices on your router list.

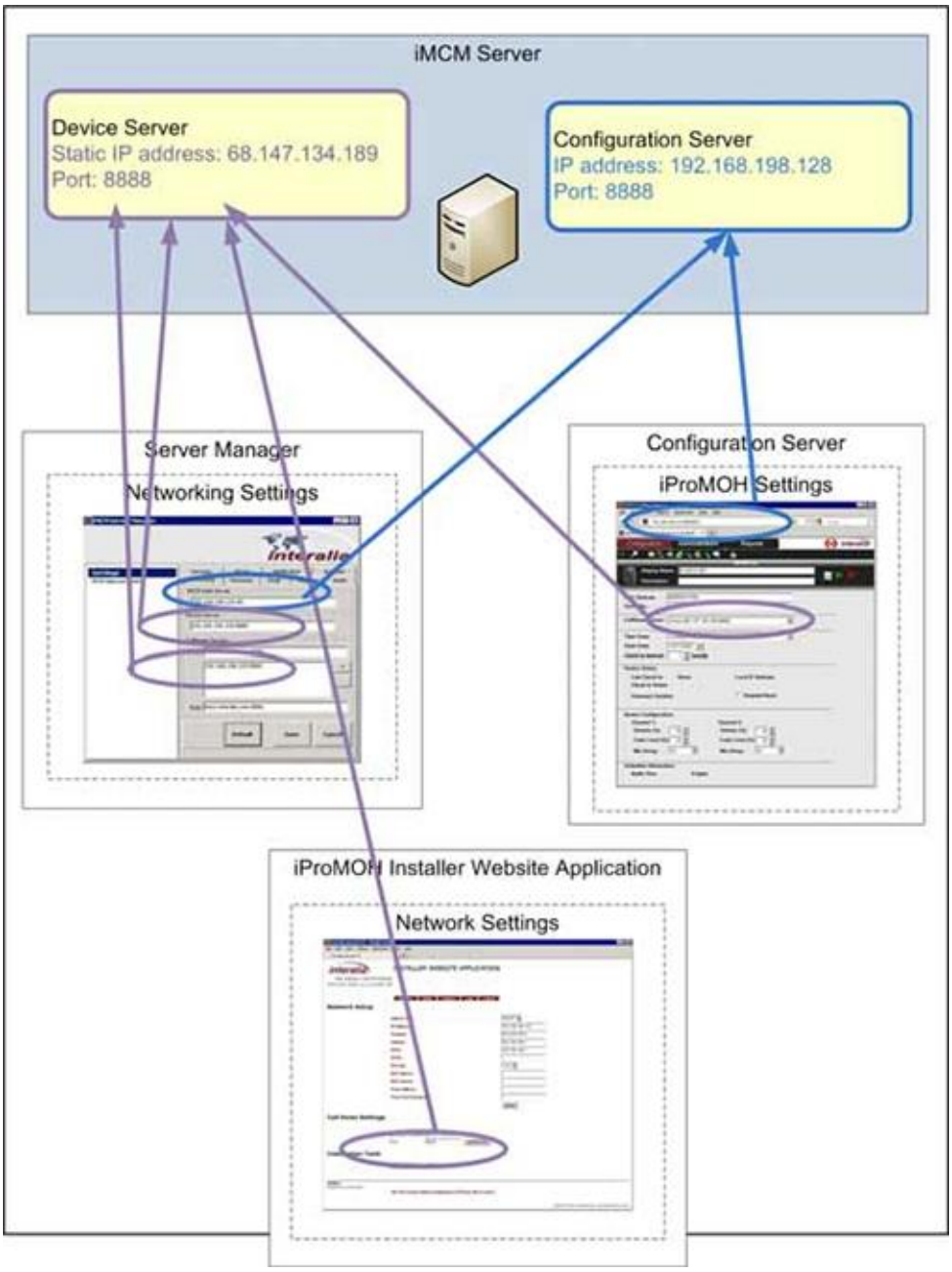


2. Use the Installer Website Application web page to configure the iProMOH. See Chapter 4, "iProMOH Setup and Configuration".

Appendix C | *Summary of IP Addresses*

This appendix gives an example of the various IP addresses used in the iMCM system.

- The address and port of the **iMCM Web Server/iMCM Configuration Server** must match:
  - The **iMCM Server** setting in the Service Manager.
  - The URL used in the web browser to open the Configuration Server.
- The address and port of the **Device Server** must match:
  - The **Device Server** setting in the Service Manager.
  - The **CallHome** setting in the Service Manager.
  - The **CallHome** setting in the iProMOH settings in the Configuration Server.
  - The **CallHome Settings** in the iProMOH Installation Website application.


iMCM Server
Device Server
Static IP address: 68.147.134.189
Port: 8888
Configuration Server
IP address: 192.168.198.128
Port: 8888
Server Manager
Networking Settings
Configuration Server
iProMOH Settings
iProMOH Installer Website Application
Network Settings