

MIP 5000 VoIP Radio Console Supervisor Manual



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ABOUT THIS MANUAL

This section contains an overview of the information in this document, including the following:

- “MIP 5000 VoIP Radio Console Overview”
- “Supervisor Functions”
- “This Manual”
- “Other Manuals and Reference Material”

MIP 5000 VoIP RADIO CONSOLE OVERVIEW

The Motorola MIP 5000 VoIP Radio Console system is a radio dispatch system composed of MIP 5000 Gateways and MIP 5000 VoIP Radio Console positions connected together using an IP computer network. Each MIP 5000 Gateway provides the interface between the IP network and the two-way radio. Each MIP 5000 VoIP Radio Console position provides a user-friendly graphical user interface (GUI) to control a two-way radio system over an IP network. The MIP 5000 VoIP Radio Console position consists of an off-the-shelf computer with speakers and a microphone, Microsoft® Windows® XP Professional, Vista Business, or Windows 7 Professional Operating System, and Motorola MIP 5000 VoIP Radio Console software.

The MIP 5000 system supports up to 128 MIP 5000 Gateways and up to 100 MIP 5000 VoIP Radio Console positions. The backbone of the system can be any managed local area network (LAN) or wide area network (WAN) that uses IP and supports multicast addressing. Each MIP 5000 Gateway provides the interface to a single radio channel. Each MIP 5000 VoIP Radio Console position provides access to up to 24 radio channels at a time for a single dispatcher, depending on the software license purchased. Different combinations of channels can be accessed at a console position at different times by loading different console configuration files.

The MIP 5000 system is configured by a Console System Database Manager (CSDM) program that can be run on a computer anywhere on the network.

SUPERVISOR FUNCTIONS

Being a MIP 5000 VoIP Radio Console supervisor means you have the ability to configure each MIP 5000 VoIP Radio Console for which you are responsible. The MIP 5000 VoIP Radio Console program lets supervisors define the following;

- Colors of the user interface
- Relative sizes (zoom) of components of the user interface
- Which windows appear on the console screen
- Number of tabs in the Multiple Tab window
- Function of Tab indicators on the Multiple Tab window
- Information displayed in the Activity Log window
- Which communication resources are available on a console and where they appear
- Which function buttons are available on a console and where they appear, including the Toolbar
- Aliases for renameable function buttons
- Volume of system sounds, such as channel volume, grant tone volume, paging tone feedback, and receive and transmit on Call Director
- Microphone sensitivity
- Keyboard shortcuts for menu commands
- Which buttons and indicators appear on Radio Channel controls
- Aliases for Radio Channel control frequencies, commands, and indicators
- Caller ID aliases for mobile radio PTT IDs
- Group and Individual paging lists

THIS MANUAL

This manual describes how to configure and customize the program.



NOTE

This manual assumes that you already know how to use Microsoft Windows. Your Windows documentation describes the general operation of the Windows user interface, therefore it is not repeated in this manual.

Chapter 1, describes the configuration procedures for the Motorola MIP 5000 VoIP Radio Console:

- How to gain access to supervisor commands
- How to configure communication settings
- How to assign communication resources to a console
- How to configure the appearance of a console
- How to maintain caller ID aliases
- How to maintain paging list data
- How to save console configuration data

Chapter 2, provides detailed information about each supervisor command in the menu bar.

OTHER MANUALS AND REFERENCE MATERIAL

Related manuals and reference material include:

- *MIP 5000 VoIP Radio Console Operator Manual* (6881013Y34)
- *MIP 5000 VoIP Radio Console Installation and Configuration Manual* (6881013Y35)

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CONFIGURING THE CONSOLE

This section describes the configuration procedures for the Motorola MIP 5000 VoIP Radio Console as follows:

- “Gaining Access to Supervisor Commands” on page 1-1
- “Selecting Available Channels for a Console” on page 1-3
- “Managing MIP 5000 HASP Keys” on page 1-4
- “Customizing the Main Window” on page 1-6
- “Customizing the Radio Channel Controls” on page 1-26
- “Configuring MIP 5000 Audio” on page 1-47
- “Setting Time Format for Activity Log and Page History” on page 1-55
- “Maintaining Page List Data” on page 1-58
- “Maintaining the Caller ID Database” on page 1-72
- “Saving and Copying the Configuration” on page 1-80

GAINING ACCESS TO SUPERVISOR COMMANDS

Before you can make changes to the layout or configuration of the MIP 5000 VoIP Radio Console, you must be recognized as a supervisor by selecting the **Allow Layout Reconfiguration** command on the **Edit** menu and entering the supervisor password.

Permission for screen layout reconfiguration is disabled by default for all users at login. Access to this feature for a session is available to supervisors using a password set at the CSDM.

PROCEDURE 1-1 HOW TO GAIN ACCESS TO SUPERVISOR COMMANDS

- 1 Select **Allow Layout Reconfiguration** from the **Edit** menu.

Result: A **Configuration Password** dialog box appears.



- 2 Type the supervisor password that was set at the CSDM and click **OK** to gain access to the console configuration and other supervisor features.

Result: A check mark appears beside the **Allow Layout Reconfiguration** command on the **Edit** menu.

The **Miscellaneous Window**, **Toolbar**, **Activity Log Window**, **Volume Window**, and **Information Window** commands on the **View** menu, the **Caller ID** command on the **Tools** menu, **Save Configuration** and **Save Configuration As....** on the **Console** menu, and all the other commands on the **Edit** menu become available. All supervisor commands are now accessible.



- 3 To disable this feature, select the **Allow Layout Reconfiguration** command once again.

Result: The check mark disappears and the feature is disabled. If you made any configuration changes while the feature was enabled, you are prompted to save the current console configuration file.

When the feature is disabled, all supervisor commands become unavailable.

SELECTING AVAILABLE CHANNELS FOR A CONSOLE

The MIP 5000 VoIP Radio Console uses a USB HASP key to license the number of channels available on each console. A HASP key is a security dongle that plugs into a USB port. The MIP 5000 VoIP Radio Console program reads a security code in the HASP key that tells it how many channels a console is licensed to access. For more information about HASP keys, see “Managing MIP 5000 HASP Keys” on page 1-4.

Five classes of licence are available for each console:

- One (1) radio channel
- Four (4) radio channels
- Eight (8) radio channels
- Twelve (12) radio channels
- Twenty-four (24) radio channels

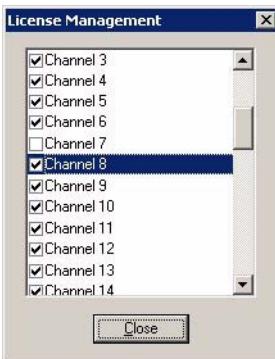
Whenever a MIP 5000 system has more channels than an operator position (console) is licensed to control, the channels available to the dispatch operator must be selected by a supervisor. For more information on the **Licensing** command, see “Licensing Command” on page 2-44.

Available channels are stored in the console configuration file. Different configuration files can store different available channels. A single operator position can get access to all the channels in a system in groups of up to 24 by loading different configuration files at different times. See “Saving and Copying the Configuration” on page 1-80 for information about making various configurations available at different consoles.

PROCEDURE 1-2 HOW TO SELECT AVAILABLE CHANNELS

- 1 Choose **Licensing** from the **Edit** menu.

Result: The **License Management** dialog box appears.



PROCEDURE 1-2 HOW TO SELECT AVAILABLE CHANNELS (CONTINUED)

2 From the list of channels in this system, select the ones that will be available in this configuration at this console. Click the check box next to a channel name to select it.

**NOTE**

A check mark means that this channel will be available at this console. You can only select as many channels as this console is licensed to use. To deselect the channel, clear the check box.

3 Click **OK**.

Result: The **License Management** dialog box closes and the selected channels are available for use at this console.

**NOTE**

You must still add Radio Channel controls for these channels to this console, as described in “Adding Radio Channel Control Menu Controls” on page 1-26

4 Repeat this procedure at each console.

MANAGING MIP 5000 HASP KEYS

.....

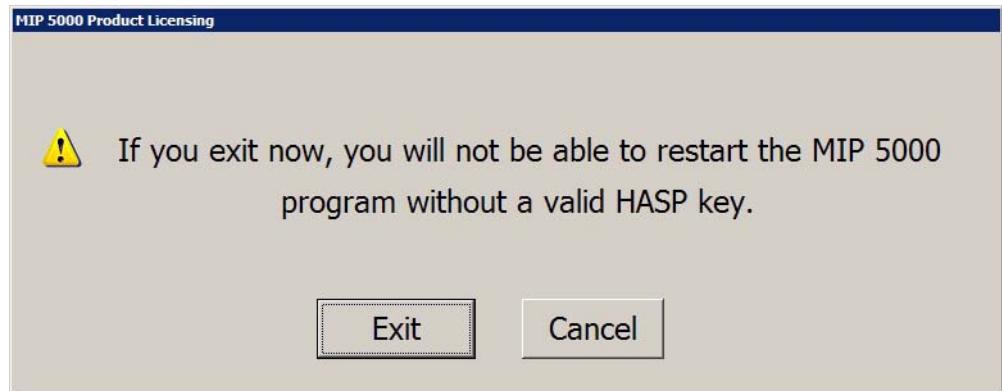
A HASP key is required to activate the MIP 5000 VoIP Radio Console program and license the number of channels required. A HASP key is a security dongle that plugs into a USB port. A different HASP key is available to license each of the different numbers of channels:

- 1 channel
- 4 channels
- 8 channels
- 12 channels
- 24 channels

When first started, the MIP 5000 VoIP Radio Console program is able to run for a 30-day trial period without a HASP key. During the trial period, if no HASP key is present, a console can access up to 24 channels, depending on the number of channels in the system. The current status of the MIP 5000 license can be seen on the **About** dialog box and in the title bar.

FIGURE 1-1 TITLE BAR SHOWING TIME REMAINING IN TRIAL PERIOD

After the 30 day trial period, there is an additional grace period of 10 days. If no HASP key is present and you log out during the grace period, the following message appears and you are not allowed to log in:

FIGURE 1-2 MIP 5000 HASP KEY NOTICE — VOLUNTARY EXIT

If no HASP key is present at the end of the 10-day grace period, the following message appears and no one is allowed to log in:

FIGURE 1-3 MIP 5000 HASP KEY NOTICE — AFTER GRACE PERIOD

CUSTOMIZING THE MAIN WINDOW

This section describes how to customize the main window of the MIP 5000 VoIP Radio Console by doing the following:

- “Assigning Shortcut Keys” on page 1-6
- “Setting the General Layout” on page 1-9
- “Adding a New Tab to the Multiple Tab Window” on page 1-11
- “Renaming, Moving, and Deleting Tabbed Windows” on page 1-11
- “Adding a New Button or Control” on page 1-13
- “Moving a Button or Control” on page 1-14
- “Deleting a Button or Control” on page 1-15
- “Moving a Window” on page 1-15
- “Resizing a Window” on page 1-17
- “Setting the Size of Buttons, Controls and Windows” on page 1-17
- “Setting Display Colors” on page 1-19
- “Setting Activity Log Window Features” on page 1-21
- “Setting the Information Window” on page 1-23
- “Viewing Non-Visible Resources” on page 1-24

There is a lot of flexibility in the screen layout of the MIP 5000 VoIP Radio Console program; as a supervisor, you configure the main window of each console to suit individual preferences. The changes to the screen layout are saved in the configuration file.

ASSIGNING SHORTCUT KEYS

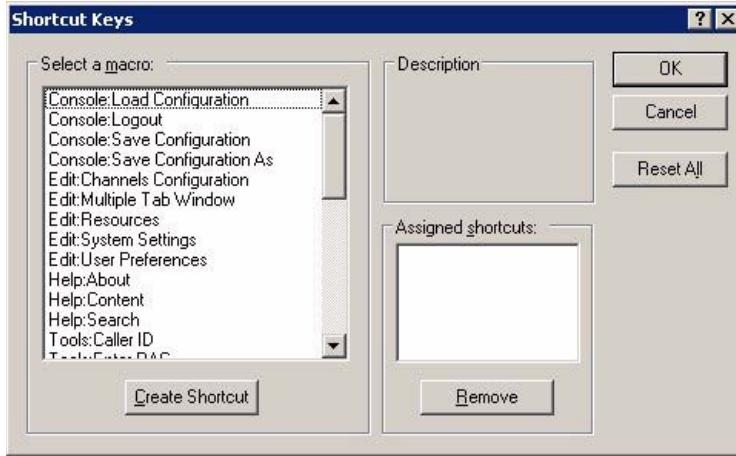
As a supervisor, you can assign shortcuts to common menu items on your main window with single keystrokes or combinations using the CTRL, SHIFT and/or ALT keys, plus 0-9, A-Z (uppercase only) and function keys (F1, F2, etc.). Single keystrokes are possible with function keys.

The CTRL, SHIFT, and ALT keys must be combined with other keystrokes. It cannot be used alone.

PROCEDURE 1-3 HOW TO ASSIGN SHORTCUTS

1 Choose **Shortcuts** from the **Edit** menu.

Result: The **Shortcut Keys** dialog box appears.



2 To add a shortcut:

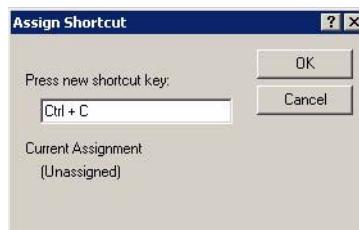
2.1 In the **Select a macro** list, highlight the feature to which you want to assign the shortcut.



NOTE

There are reserved shortcuts that you cannot reassign. A warning dialog box appears if you try to reassign a reserved shortcut.

2.2 Click the **Create Shortcut** button. The **Assign Shortcut** dialog box appears.

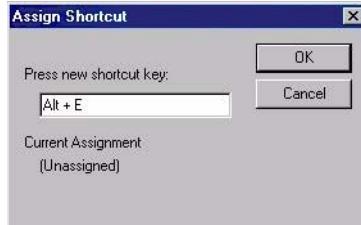


PROCEDURE 1-3 HOW TO ASSIGN SHORTCUTS (CONTINUED)

2.3 Type your new shortcut sequence in the text box provided. (You can assign shortcuts with combinations of the CTRL, SHIFT and/or ALT keys, plus 0-9, A-Z and function keys but not with CTRL, SHIFT, and ALT alone.)

**NOTE**

More than one shortcut can be assigned to a feature.



2.4 Click **OK** to assign the new shortcut to this feature and return to the **Shortcut Keys** dialog box; the **Assigned shortcuts** box displays the new shortcut.

OR

Click **Cancel** to abort this shortcut assignment and return to the **Shortcut Keys** dialog box.

3 To remove a shortcut assigned to a feature:

3.1 In the **Assigned shortcuts** box of the **Shortcut Keys** dialog box, highlight the shortcut to be removed.

3.2 Click the **Remove** button. The highlighted shortcut disappears.

3.3 Repeat if required to remove the shortcuts.

4 To return all of the features to the system default shortcuts, click the **Reset All** button. A confirmation dialog box appears.

4.1 Click **OK** to reset all shortcuts to the system defaults.

OR

Click **Cancel** to abort this reset action.

5 You return to the **Shortcut Keys** dialog box.

6 Click **OK** to assign your shortcuts and return to the main window.

OR

Click **Cancel** to abort any changes and return to the main window.

**NOTE**

After a shortcut is assigned to a feature, the shortcut appears beside the feature in the menu bar.

SETTING THE GENERAL LAYOUT

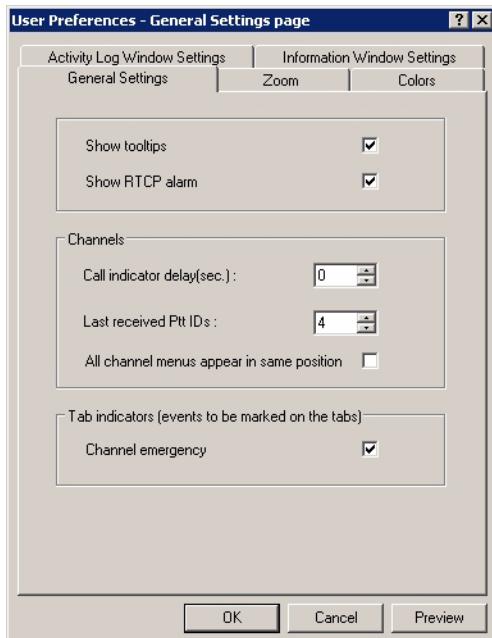
To adjust the features in the **General Settings** tab, follow this procedure:

PROCEDURE 1-4 HOW TO ADJUST GENERAL SETTINGS

- 1 Choose **User Preferences** from the **Edit** menu.

Result: The **User Preferences** dialog box appears.

- 2 Click the **General Settings** tab in the **User Preferences** dialog box.



- 3 The area at the top of the dialog box contains check boxes that enable and disable the following features:

- **Show tooltips** — when enabled, pausing the mouse pointer over the following buttons causes an on-screen tip dialog box to display a text description of the button's function:
 - **Toolbar**
 - **Radio Channel control** — **Mute**, **Transmit**, **Up**, **Down**
 - **Activity Log window** — **ACO**, **CLR**, **Tx**
- **Show RTCP alarm** — when enabled, the word **NET** in the status bar has a yellow background when a network error is detected and flashes when the error affects this console. Otherwise the background stays green and the word **NET** never flashes.

- 4 To change the status of a feature listed above, click the check box beside the feature name.

Result: If the feature was disabled (not checked) a check mark appears in the box to show that it is enabled. If the feature was enabled (checked) the check mark is cleared from the box to show that it is disabled.

PROCEDURE 1-4 HOW TO ADJUST GENERAL SETTINGS (CONTINUED)

5 To specify the length of time a Call indicator remains on the screen after a call is released, use the **Call indicator delay (sec)** spin box under the **Channels** area.

Type the desired time (in seconds) in the **Call indicator delay (sec)** spin box or use the up and down arrows to specify a time. Valid settings are 0 – 30 seconds.

6 To set the **Unit ID Queue** option (on the Radio Channel control shortcut menu) and specify the number of PTT identifications that you want to list on the shortcut menu (0 to 10), use the **Last received Ptt IDs** spin box under the **Channels** area.

Type the desired number in the **Last received Ptt IDs** spin box or use the up and down arrows to set the number.

7 Click the check box beside the **All channel menus appear in same position** option to enable this feature. This feature causes the shortcut menu for every radio channel appear in the same position on the screen.

To disable this feature, click the check box again.

8 Under the **Tab Indicators** area, enable and/or disable the check boxes for the following features (see step 4 for method):

- **Channel Emergency** — When a channel emergency occurs on a Radio Channel control that is not visible on your Multiple Tab window or Miscellaneous window, then an indicator appears on the tab of the page on which the event is occurring. The tab with the emergency turns red and an aid symbol appears on the tab containing the channel emergency



9 Click **OK** to accept the changes and return to the main window. (To save these changes, choose **Save Configuration** on the **Console** menu.)

OR

Click **Cancel** to abort any changes and return to the main window. (Clicking **Cancel** will also undo any changes made with the **Preview** button.)

OR

Click the **Preview** button to see your changes on the main screen before accepting them.

ADDING A NEW TAB TO THE MULTIPLE TAB WINDOW

There is no practical limit to the number of tabs/windows that you can add to the Multiple Tab window.

PROCEDURE 1-5 HOW TO ADD A NEW TAB/WINDOW

- 1 Choose Multiple Tab window from the **Edit** menu.

Result: The **Edit Multiple Tab Window** dialog box appears.

- 2 Place your cursor in the **Tabs list** text box. Enter a new tab/window name in the **Tabs list** text box (16 characters maximum).

Result: The **Add** button becomes available.



- 3 Click the **Add** button.

Result: The new tab/window appears in the **Tabs list**.

- 4 Click the **OK** button.

Result: The new tab/window appears in your Multiple Tab window on your main window.

RENAMING, MOVING, AND DELETING TABBED WINDOWS

As a supervisor, you can rename, move, or delete a window in the Multiple Tab window.

PROCEDURE 1-6 HOW TO RENAME, MOVE, OR DELETE TABBED WINDOWS

- 1 Choose Multiple Tab window from the **Edit** menu.

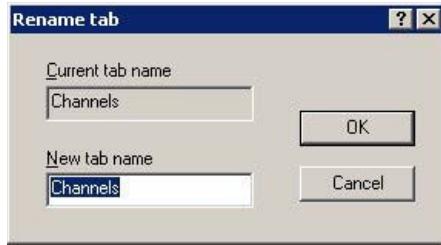
Result: The **Edit Multiple Tab Window** dialog box appears

- 2 Choose the desired tab from the **Edit Tabs** list.

PROCEDURE 1-6 HOW TO RENAME, MOVE, OR DELETE TABBED WINDOWS (CONTINUED)

3 You can rename, move, or delete the chosen tab:

3.1 To rename the tab, choose the **Rename** button. The **Rename tab** dialog box appears. In the **New tab name** text box, type in the new name (16 characters maximum).

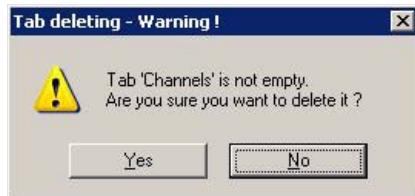


3.2 To move the tab to the left in your Multiple Tab window, choose **Move Up**. To move the tab to the right in your Multiple Tab window, choose **Move Down**.

3.3 To delete the tab, choose **Delete**.

**NOTE**

It is not necessary to remove all of the contents of a tab window to delete it. If the window still contains resources when you try to delete it, a **Tab deleting Warning** dialog box appears.



To confirm the deletion of this tab window and all of its contents, select **Yes**.

OR

To cancel this deletion, select **No**.

The **Edit Tabs** dialog box reappears.

4 Select **OK** in the **Edit Tabs** dialog box to assign your changes.

OR

Select **Cancel** to abort your changes.

ADDING A NEW BUTTON OR CONTROL

You can add a new button to the **Toolbar**, or a new button or control to the Multiple Tab or Miscellaneous windows.

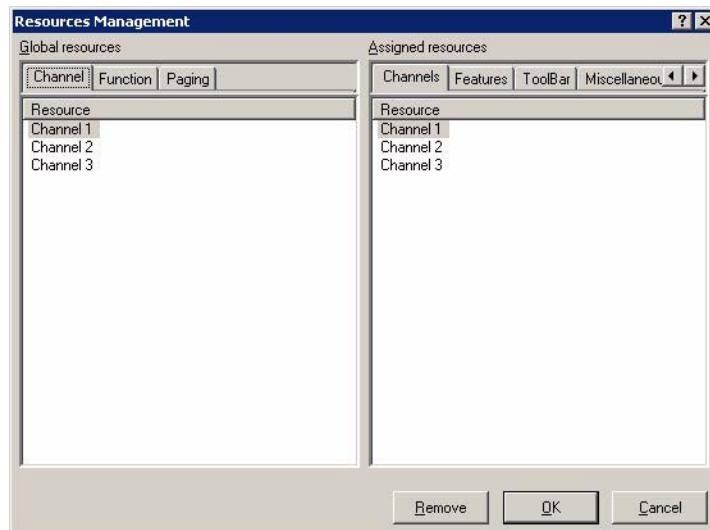


NOTE

Supervisors can rename the function buttons on the console, therefore the button names that you see here might not be what you see on the console.

PROCEDURE 1-7 HOW TO ADD A NEW BUTTON OR CONTROL

- 1 Choose **Resources** from the **Edit** menu. The **Resources Management** dialog box appears.



The **Resources Management** dialog box groups together the various types of resources (**Channel**, **Function**, **Paging**) for easy access.

- 2 Under **Assigned Resources**, choose the tab indicating the window or **Toolbar** where you want the resource control to be located; if required, use the scroll buttons.
- 3 Drag and drop any of the **Global Resources** to the desired window or **Toolbar**. By holding CTRL and highlighting more than one global resource, you can move several resources at one time.



NOTE

Added resources appear on the desired window or **Toolbar** one on top of another, therefore you must move them separately to the desired location in the window or **Toolbar**.

PROCEDURE 1-7 HOW TO ADD A NEW BUTTON OR CONTROL (CONTINUED)

- 4 Repeat Steps 2 and 3, if required.
You can combine Steps 2 and 3 by choosing the desired resources, then dragging and dropping them over the desired tab in the tab menu list. The tab where you drop the highlighted resources becomes the focus window. This tab now contains the resources that you have added.
- 5 To accept your changes and exit from the **Resources Management** dialog box, click **OK**,
OR
Click **Cancel** to abort the additions you have made.

MOVING A BUTTON OR CONTROL

A grid allows buttons and controls to be manually arranged into rows and columns. There is a slight snap-to-grid or step movement when arranging the buttons or controls.

**NOTE**

You can find procedures for setting the Grid precision in “Setting the Size of Buttons, Controls and Windows” on page 1-17.

PROCEDURE 1-8 HOW TO MOVE A BUTTON OR CONTROL

- 1 After a button or control is active, move it to a new location on the **Miscellaneous** window or another of Multiple Tab Windows by dragging and dropping it.

**SUGGESTION**

When moving a button or control from one window to another (when there are Multiple Tab Windows), move the button or control to the **Miscellaneous** window. Choose the desired window's tab indicator, and then from the **Miscellaneous** window choose, move, and release the button or control in to the new window.

DELETING A BUTTON OR CONTROL

As a supervisor, you can delete a button from the **Toolbar**, or a button or control from the Multiple Tab or Miscellaneous windows.

PROCEDURE 1-9 HOW TO DELETE A BUTTON OR CONTROL

- 1 Choose **Resources** from the **Edit** menu.

Result: The **Resources Management** dialog box appears.

- 2 In the **Resources Management** dialog box, under **Assigned Resources**, choose the tab indicating the window where the button or control you want to delete is located.

- 3 Highlight the button(s)/control(s) you want to delete.

- 4 Press **Delete** (or **CTRL+X**, if you want) on your keyboard or press the **Remove** button in the **Resources Management** dialog box.

Result: The button or control disappears from the **Assigned Resources** area.

- 5 Repeat Steps 2 to 4 if required.

- 6 Choose **OK**, to accept your changes and exit from the **Resource Management** dialog box.

OR

Choose **Cancel** to abort the deletions you have made.

MOVING A WINDOW

To move a window around the main window, follow this procedure:

PROCEDURE 1-10 HOW TO MOVE A WINDOW

- 1 Click and hold any area within the title bar of the window you want to move.
- 2 Drag and drop the window to the desired location.



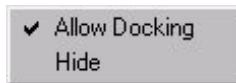
NOTE

Use the **CTRL** key, while you are moving the window, to stop the window from automatically inserting and resizing itself into the main screen area of your main window. This self-insertion and resizing is referred to as docking. Releasing the desired window while using the **CTRL** key allows the window to float over the other windows in the main screen.

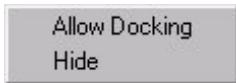
PROCEDURE 1-10 HOW TO MOVE A WINDOW (CONTINUED)

3 You can also access a shortcut menu by using the right-click button on the mouse (position the cursor below the title bar) that lets you control (by toggling) the docking ability of all windows except the Multiple Tab window. (For touchscreen user's, use the **Right-Click** key on your keyboard.)

3.1 To allow the window to dock, choose the **Allow Docking** option (illustrated with a check mark).



3.2 To stop a window from docking, choose **Allow Docking**, once again. The check mark disappears.



3.3 **Hide** removes the active window from view. To see the window again, go to the **View** menu and choose the desired window.

4 Alternatively, when the window is floating over the other windows, there is a right mouse button shortcut menu (in the title bar) that lets you move or hide the window. (On the touchscreen, use the **Right-Click** button on your keyboard.)

- To move the window, choose the **Move** option. Use the arrow keys on your keyboard or drag and drop the window to the desired location.



5 You can also double click on the title bar area of the window to toggle it from docking to floating over the other windows. To return the window to its previous position, double click in the title bar area once again.

6 If you want your screen to remain in this arrangement, ensure that you choose **Save Configuration** from the **Console** menu.

**NOTE**

If you change your console layout without saving, a window appears on logout informing you that this configuration is not saved.

RESIZING A WINDOW

As a supervisor, you can configure the main window **Maximize** and **Restore** buttons by sizing the window and storing its state in the configuration file for the individual console. The window size is automatically saved as part of the configuration file.

PROCEDURE 1-11 HOW TO RESIZE A WINDOW

- 1 Move your cursor to the edge of the window you want to resize.
Result: Your cursor changes to double arrows with a double bar in the middle.
- 2 With the new cursor present, hold down the left button on your mouse, or hold your finger in place on the screen.
- 3 Drag to increase or decrease the size of the window.
- 4 Release the left mouse button or remove your finger from the screen when you reach the desired size.

SETTING THE SIZE OF BUTTONS, CONTROLS AND WINDOWS

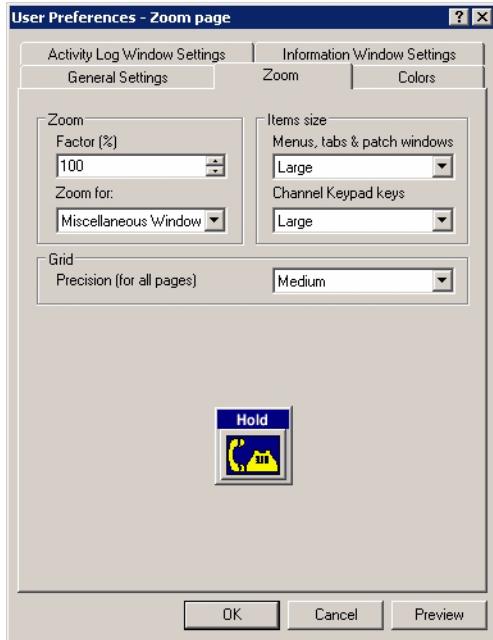
To adjust the button, control or window size on the console, follow this procedure:

PROCEDURE 1-12 HOW TO USE THE ZOOM FEATURE

- 1 Choose **User Preferences** from the **Edit** menu.
Result: The **User Preferences** dialog box appears.

PROCEDURE 1-12 HOW TO USE THE ZOOM FEATURE

2 Click the **Zoom** tab in the **User Preferences** dialog box.



3 In the **Zoom** area, in the **Zoom for** drop-down list box, choose the region where you want to increase or decrease the size of the buttons/channels.

4 In the **Zoom** area, in the **Factor (%)** numerical spin box, use the up and down arrows to increase or decrease the size of the button or type a number with your keyboard. The sample button increases or decreases accordingly.

5 Repeat step 3 and step 4 if required to set your button and control size preferences throughout your main window.

6 In the **Items size** area, in the **Menus, tabs, & patch windows** drop-down menu, choose the size of the menus (shortcut and title bar menus) and patch windows on your main window. The choices are **Small**, **Medium**, and **Large**.

7 In the **Channel Keypad keys** drop-down menu, choose the size of the keypad view on shortcut menu of the Radio Channel controls. The choices are **Small**, **Medium**, **Large**, and **Extra Large**.

8 The **Grid** area adjusts the alignment grid when moving or aligning buttons or controls throughout the main window. To change the grid, from the **Precision (for all pages)** drop-down menu, choose **Coarse**, **Medium**, or **Fine** grid.

PROCEDURE 1-12 HOW TO USE THE ZOOM FEATURE

9 Click the **Preview** button to view the changes on the main screen before confirming.
OR
 Click **OK** to accept the changes and return to the main window. (To save these changes, choose **Save Configuration** on the **Console** menu.)
OR
 Click **Cancel** to abort any changes and return to the main window.

SETTING DISPLAY COLORS

To customize the colors on the console, follow this procedure:

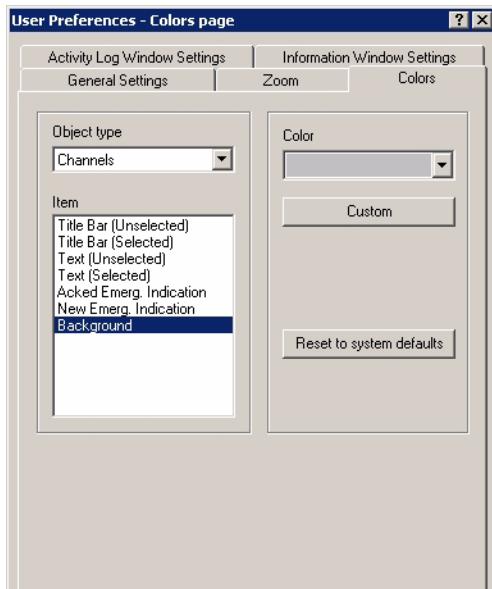
PROCEDURE 1-13 HOW TO ADJUST CONSOLE COLORS

1 Choose **User Preferences** from the **Edit** menu.
Result: The **User Preferences** dialog box appears.

2 Click the **Colors** tab in the **User Preferences** dialog box.



Depending on what object you want to change, these steps can be rearranged, if required, to suit your needs.



PROCEDURE 1-13 HOW TO ADJUST CONSOLE COLORS (CONTINUED)

3 Under **Object Type**, choose the desired general area that you want to change:

- **Multiple Tab window**
- **Miscellaneous window**
- **Toolbar**
- **Channels**
- **Buttons & Indicators**
- **Page Buttons**

Result: The list in the **Item** list box changes to reflect your choice of object type.

4 In the **Item** dialog box, choose the component that you want to change color.

5 To change the color of the specified item, choose a color from the **Color** drop-down menu.

OR

To assign a custom color, click the **Custom** button.

Result: A standard Windows **Color** dialog box appears. Design your custom color.

6 Repeat step 3 through step 5, if required, to assign your color choices.

7 Click the **Preview** button to view the color changes before confirming.

OR

Click **OK** to accept the color changes and return to the main window. (To save these changes, choose **Save Configuration** from the **Console** menu.)

OR

Click **Cancel** to abort any changes and return to the main window.

OR

Click the **Reset to System Defaults** button to return the colors to the system default colors.

SETTING ACTIVITY LOG WINDOW FEATURES

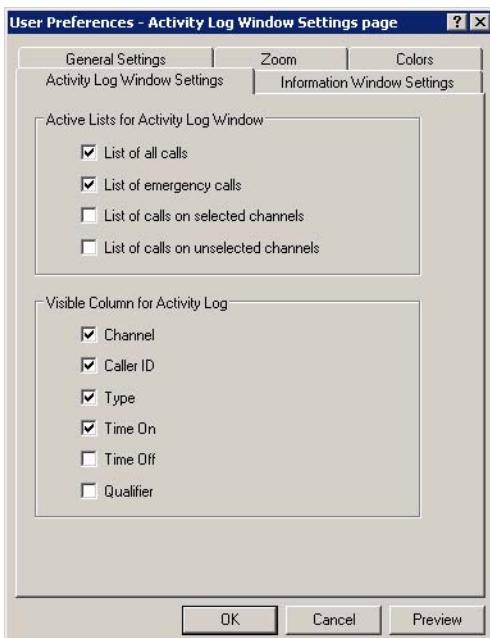
To adjust the activities shown in the Activity Log Window, follow this procedure:

PROCEDURE 1-14 HOW TO ADJUST THE ACTIVITY LOG WINDOW SETTINGS

- 1 Choose **User Preferences** from the **Edit** menu.

Result: The **User Preferences** dialog box appears.

- 2 Click the **Activity Log Window Settings** tab in the **User Preferences** dialog box.



PROCEDURE 1-14 HOW TO ADJUST THE ACTIVITY LOG WINDOW SETTINGS (CONTINUED)

3 The check boxes enable and disable the following features:

- Under the **Active Lists for Activity Log Window** area:
 - **List of all calls** – identifies and notes details of all active calls received at your console. This tabbed list combines all types of calls into one list
 - **List of all emergency calls** – identifies and notes details of all emergency calls received at your console. This tabbed list contains only emergency calls
 - **List of calls on selected channels** – identifies and notes details on all selected channels active at your console.
 - **List of calls on unselected channels** – identifies and notes details on all unselected channels active at your console
- Under the **Visible Column for Activity Log** area:
 - **Channel** – identifies the channel number/identification of the active transmission
 - **Caller ID** – shows the alias name of the call.
 - **Type** – identifies the type of active call (PTT ID, Emergency, etc.)
 - **Time On** – identifies the time that the call begins
 - **Time Off** – identifies the time that the call ends
 - **Qualifier** – identifies the Activity Log Window entry as incoming or outgoing; for some call types, the Qualifier also identifies the ID/Alias or the target of the call. See “Qualifier” on page 2-18.

**NOTE**

When a PTT ID call originates from an Astro Spectra radio, the Caller ID appears in decimal format in the Activity Log window and in hexadecimal format on the radio itself.

4 To enable any of the above features, click the check box beside the desired feature.

Result: A check mark appears in the box to show that it is enabled.

To disable any of the above features, click the check box again.

**NOTE**

At least one active list (tab) and at least one visible column must remain. You are not permitted to disable the last one of either.

Result: The check mark disappears and the feature is disabled.

5 Click **OK** to accept the changes and return to the main window. (To save these changes, choose **Save Configuration** on the **Console** menu.)

OR

Click **Cancel** to abort any changes and return to the main window.

OR

Click **Preview** to see your changes before accepting them.

SETTING THE INFORMATION WINDOW

By default, the Information Window appears on the console with the Page History tab. You can add the Radio Text tab to display radio text that appears on the MOTOTRBO™ Radio Channel control.

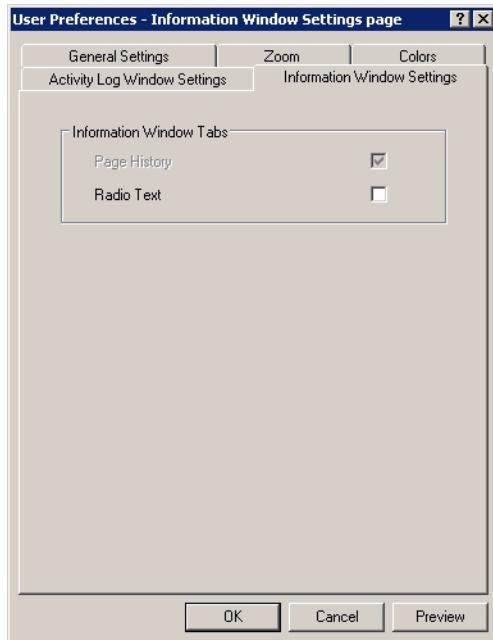
The Information Window must have either the Page History tab and/or the Radio Text tab enabled. By default, the Page History window is shown, but you can remove it only when the Radio Text window is enabled.

PROCEDURE 1-15 HOW TO CONFIGURE THE INFORMATION WINDOW

- 1 Choose **User Preferences** from the **Edit** menu.

Result: The **User Preferences** dialog box appears.

- 2 Click the **Information Windows Settings** tab in the **User Preferences** dialog box.



PROCEDURE 1-15 HOW TO CONFIGURE THE INFORMATION WINDOW (CONTINUED)

3 Click the **Radio Text** check box.

Result: A check mark appears in the box to show that it is enabled.

To remove the Page History tab, clear the **Page History** check box.

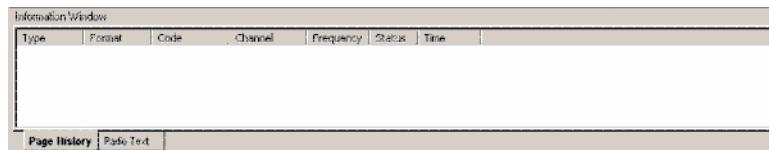
**NOTE**

The **Page History** check box can only be cleared when the **Radio Text** check box is checked.

4 Click **OK** to accept the changes and return to the main window.

Result: The Radio Text tab appears.

To remove the Radio Text tab, repeat the above steps, and clear the **Radio Text** check box in step 3. You can only remove the Radio Text tab when the **Page History** check box is checked.

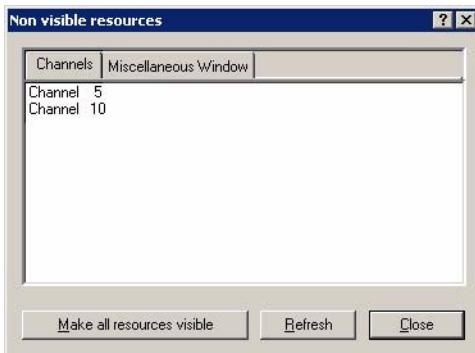
**VIEWING NON-VISIBLE RESOURCES**

It is possible, by rearranging the resources on the screen (including buttons in the **Toolbar**) or by using the **Zoom** feature, to end up with resource objects that are not visible and, therefore, cannot be accessed.

PROCEDURE 1-16 HOW TO ACCESS NON-VISIBLE RESOURCES

1 Choose **Non-Visible Resources** from the **View** menu.

Result: The **Non-Visible Resources** dialog box appears containing the names of the windows/tabs, where the resources are not visible, plus a **Toolbar** tab, if buttons on the **Toolbar** are not visible.



PROCEDURE 1-16 HOW TO ACCESS NON-VISIBLE RESOURCES (CONTINUED)

2 Click the tab in the **Non-Visible Resources** dialog box containing the resources you cannot see.

Result: All non-visible resources appear in the list for that window/tab.

3 Click on the **Make all resources visible** button (supervisor access required).

Result: The non-visible resources move (applies to all pages). In some situations, the resources are placed over top of other resources. It is necessary to rearrange these resources manually to ensure that all resources are immediately accessible.

4 To refresh the list of non-visible resources after making another intervention, such as adding or removing resources or changing the zoom level, click on the **Refresh** button.

Result: The resources that are now within the viewable portion of a window disappear from the list; resources that are no longer within the viewable portion of any window appear on the list.

5 When you finish viewing or adjusting the list of non-visible resources, click the **Close** button.

Result: The **Non-Visible Resources** dialog box closes and you return to the main window.

CUSTOMIZING THE RADIO CHANNEL CONTROLS

This section describes how to perform the following tasks:

- “Adding Radio Channel Control Menu Controls” on page 1-26
- “Editing Radio Channel Control Menu Controls” on page 1-30
- “Selecting Radio Channel Control Indicators” on page 1-31
- “Editing the Radio Channel Control Indicators” on page 1-33
- “Setting Radio Channel Control Frequency Aliases” on page 1-34
- “Setting Radio Channel Control Button Aliases” on page 1-36
- “Setting Radio Channel Control Mobile Indicator Aliases” on page 1-41
- “Forcing a MIP 5000 Gateway to Use a New Configuration Database” on page 1-43
- “Reconnecting with the Radio” on page 1-45
- “Resetting a MOTOTRBO Radio” on page 1-46

ADDING RADIO CHANNEL CONTROL MENU CONTROLS

As a supervisor, you can configure the type and number of controls (related to the indicators) that appear on the Radio Channel control shortcut menu. You can also configure the Radio Channel control **Up** and **Down** buttons and the Radio Channel control size on the shortcut menu.



NOTE

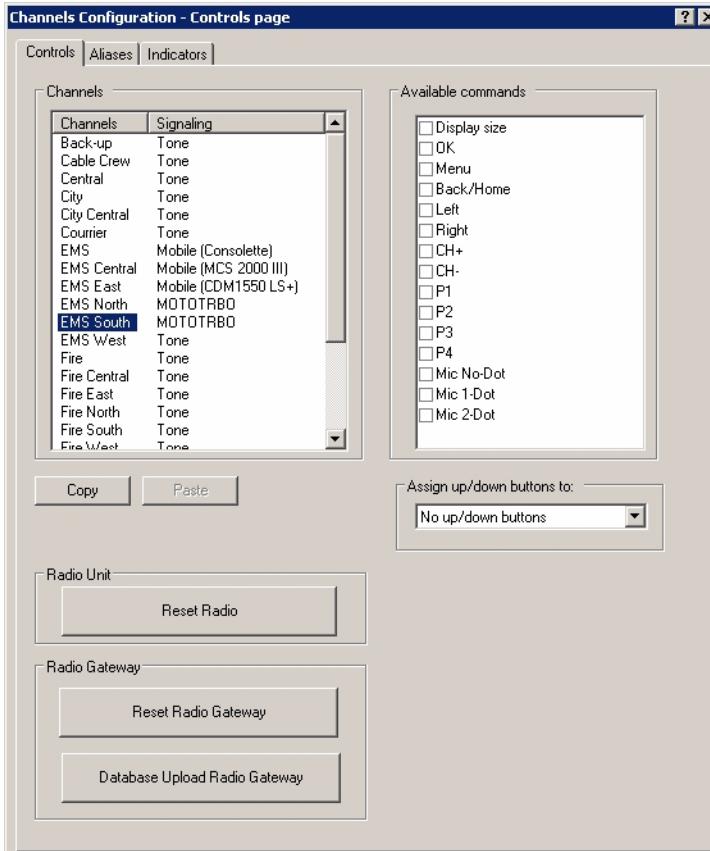
Radio channels are enabled and configured using the CSDM. If you do not have access to a feature or function that you want to enable, such as Private Line or Wildcarding, make sure that it has been enabled at the CSDM.

PROCEDURE 1-17 HOW TO ENABLE SHORTCUT MENU CONTROLS

1 Choose **Channels Configuration** from the **Edit** menu.

Result: The **Channels Configuration** dialog box appears.

2 Click the **Controls** tab in the **Channels Configuration** dialog box.



3 The Radio Channel controls that are available to you appear in the **Channels** list. Click on a Radio Channel control name in the list to select it.

Result: The Radio Channel control name becomes highlighted.

PROCEDURE 1-17 HOW TO ENABLE SHORTCUT MENU CONTROLS (CONTINUED)

4 The controls that are available (per Radio Channel control) appear in the **Available commands** list. You must enable these controls to appear on the individual Radio Channel controls through the CSDM. Choose the controls you want to enable from the **Available commands** list by clicking the check box next to the control.

Result: When you enable a control to appear in the shortcut menu, a check mark appears in the check box. When you disable a control, the check box is clear. The following channel types are listed with their controls:

- **Analog controls:**
 - Display size
 - Encryption Mode (tone)
 - Frequency
 - Mute R2
 - Private line
 - Repeat Disable
 - Takeover
 - Wildcard 1, Wildcard 2
- **Mobile controls:**
 - Button A to Button F (CDM 1550 LS+)
 - Button A to Button I (MCS 2000 III)
 - Button A to Button R (Consolette)
 - Display size
 - Exit/Escape
 - Menu/Home
 - Scroll up, Scroll down
 - Select
- **MOTOTRBO controls:**
 - Back/Home
 - CH-
 - CH+
 - Display Size
 - Left Arrow
 - Menu
 - Mic 1-Dot, Mic 2-Dot
 - Right Arrow
 - Mic No-Dot
 - OK
 - P1 to P4 (programmable buttons)

Controls for mobile radios vary by type of radio. Consult the documentation for the type of mobile radio in question for a list of available controls. By default, the controls are assigned names of the form “Button *A*” where *A* is a letter from A to R (depending on the number of buttons on the radio faceplate) corresponding to the labels in Figure 1-4, “ASTRO Digital Spectra (Consolette) Faceplate,”, Figure 1-5, “LTR CDM1550 LS+ Faceplate,”, or Figure 1-6, “MCS 2000 III Faceplate.”

PROCEDURE 1-17 HOW TO ENABLE SHORTCUT MENU CONTROLS (CONTINUED)

5 Under the **Assign up/down buttons to** area, choose the option that you want to control with the **Up/Down** buttons. You must enable these options on the individual Radio Channel controls through the CSDM. The available options are listed below with their associated channel types:

- **No up/down buttons** - analog, mobile, MOTOTRBO
- **Volume control** - analog, mobile, MOTOTRBO
- **Frequency control** - analog
- **Private line control** - analog
- **Scroll up/down control** - mobile
- **Channel up/down control** - MOTOTRBO

**NOTE**

The symbol on the **Up/Down** buttons change to reflect their assigned function.

6 If the controls in the Radio Channel control are the same or similar (including the **Up/Down** button feature) and have the same signaling type, use the **Copy** and **Paste** buttons in the dialog box to replicate the controls across multiple Radio Channel controls.

- 6.1** Choose the Radio Channel control with the controls you want to copy. Choose the **Copy** button. **Copy from: Channel x** appears below the **Copy** button.
- 6.2** Choose the Radio Channel control to which you want to copy the controls. Choose the **Paste** button. The system copies the controls to the new Radio Channel control.
- 6.3** Repeat if required.

**NOTE**

Copy and **Paste** are only available for mobile radios of the same type.

7 Click **OK** to accept the changes and return to the main window. (To save these changes, choose **Save Configuration** on the **Console** menu.)

OR

Click **Cancel** to abort any changes and return to the main window.

EDITING RADIO CHANNEL CONTROL MENU CONTROLS

PROCEDURE 1-18 HOW TO EDIT SHORTCUT MENU CONTROLS

- 1 Choose **Channels Configuration** from the **Edit** menu.
Result: The **Channels Configuration** dialog box appears.
- 2 Click the **Controls** tab in the **Channels Configuration** dialog box.
- 3 In the **Channels** list, choose the Radio Channel control you want to edit by clicking on a Radio Channel control name in the list.
Result: The Radio Channel control name becomes highlighted.
- 4 From the **Available controls** list, add a feature by clicking the check box next to the control.
Result: A check mark appears in the check box.
To delete a feature, select the check box beside the feature you want to delete.
Result: The check mark in the check box disappears.
- 5 Repeat as necessary or use the **Copy** and **Paste** buttons to replicate the changes across multiple Radio Channel controls.
- 6 Click **OK** to accept the changes and return to the main window. (To save these changes, choose **Save Configuration** on the **Console** menu.)
OR
Click **Cancel** to abort any changes and return to the main window.

SELECTING RADIO CHANNEL CONTROL INDICATORS

As a supervisor, you can configure the type and number of indicators that appear on the Radio Channel control. The indicator area in the center of the Radio Channel control, has two fixed and eleven configurable indicator spaces. The **Call** and **Transmit** indicator spaces are not configurable.



NOTE

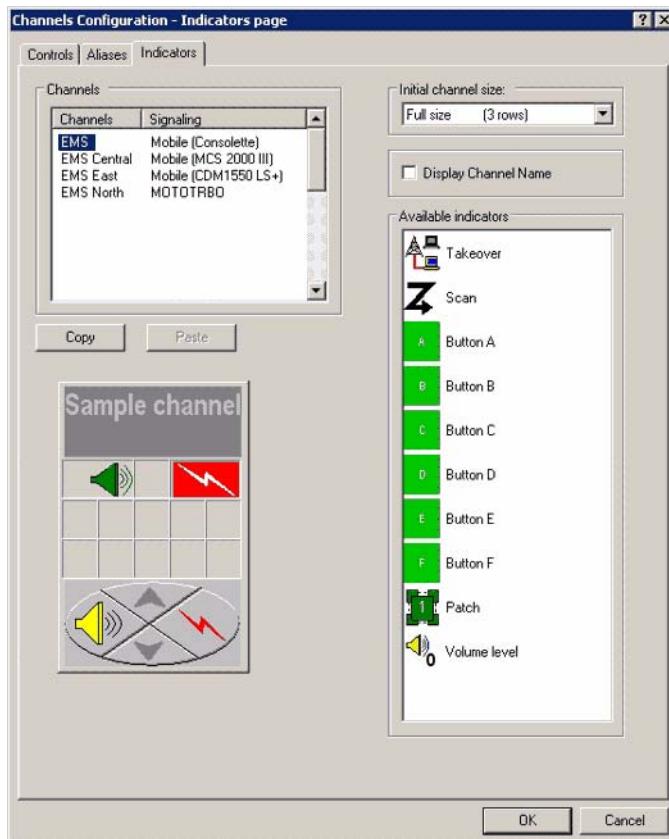
Radio channels are enabled and configured using the CSDM. If you do not have access to a feature or function that you want to enable, such as Private Line or use of Wildcards, make sure that it has been enabled at the CSDM.

PROCEDURE 1-19 HOW TO SELECT RADIO CHANNEL CONTROL INDICATORS

- 1 Choose **Channels Configuration** from the **Edit** menu.

Result: The **Channels Configuration** dialog box appears.

- 2 Click the **Indicators** tab in the **Channels Configuration** dialog box.



- 3 The Radio Channel controls that are available to you appear in the **Channels** list. Choose a Radio Channel control from the **Channels** list. (To choose a Radio Channel control, click on a Radio Channel control name in the list.)

PROCEDURE 1-19 HOW TO SELECT RADIO CHANNEL CONTROL INDICATORS (CONTINUED)

4 From the **Initial channel size:** area, choose the size of the Radio Channel control display from the drop-down menu.

- **Small size** (1 row) contains 1 center blank indicator space plus the Call and Transmit indicators on either side
- **Medium size** (2 rows) contains 6 blank indicator spaces plus the Call and Transmit indicators
- **Full size** (3 rows) contains 11 blank indicator spaces plus the Call and Transmit indicators

Result: The **Sample Channel** changes to reflect your choice.

5 The indicators available for the selected Radio Channel control appear in the **Available Indicators** list. From the **Available Indicators** list, drag and drop your selection onto the **Sample Channel**. The available indicators are:

- **Frequency** (analog only)
- **Private Line** (analog only)
- **Repeat Disable** (analog only)
- **Takeover** (analog (Parallel unit), mobile)
- **Wildcard 1** (analog only)
- **Wildcard 2** (analog only)
- **Mute R2** (analog only)
- **Patch**
- **Volume Level**

**NOTE**

Only the indicators available to the selected Radio Channel control appear in the **Available Indicators** list. Therefore, depending on the Radio Channel control configuration, some indicators might not be available.

The additional indicators available for mobile and MOTOTRBO radios are listed below:

- **Scan (Priority 1 and Priority 2)**
- **Monitor**
- **Secure**
- **Takeover** (mobile only)
- **Talkaround**
- **Option**
- **Companding** (mobile only)
- **Lo/High Power**
- **Programmable Buttons** (mobile only)

**NOTE**

Indicators for mobile radios vary by type of radio. Consult the documentation for the type of mobile radio in question for a list of available indicators.

PROCEDURE 1-19 HOW TO SELECT RADIO CHANNEL CONTROL INDICATORS (CONTINUED)

The additional indicators available for MOTOTRBO radios are:

- **Message**
- **Tones Disabled**
- **RSSI**
- **Emergency**
- **RF Mode**

6 If the indicators are the same or similar on a Radio Channel control of the same signaling type, use the **Copy** and **Paste** buttons to replicate the indicators across multiple Radio Channel controls.

6.1 Choose the Radio Channel control with the indicators that you want to copy. Choose the **Copy** button. **Copy from: Channel x** appears below the **Copy** button.

6.2 Choose the Radio Channel control to which you want to copy the controls. Choose the **Paste** button. The system copies the indicators to the new Radio Channel control.

6.3 Repeat if required.

**NOTE**

Copy and **Paste** are only available for mobile radios of the same type.

7 Click **OK** to accept the changes and return to the main window. (To save these changes, choose **Save Configuration** on the **Console** menu.)

Result: The affected Radio Channel controls reflect the changes.

OR

Click **Cancel** to abort any changes and return to the main window.

EDITING THE RADIO CHANNEL CONTROL INDICATORS

To add or remove indicators on the Radio Channel control, follow this procedure:

PROCEDURE 1-20 HOW TO ADD OR REMOVE RADIO CHANNEL CONTROL INDICATORS

1 Choose **Channels Configuration** from the **Edit** menu.

Result: The **Channels Configuration** dialog box appears.

2 Click the **Indicators** tab in the **Channels Configuration** dialog box.

3 In the **Channels** list, choose the Radio Channel control you want to edit. (To choose a Radio Channel control, click on a Radio Channel control name in the list.)

PROCEDURE 1-20 HOW TO ADD OR REMOVE RADIO CHANNEL CONTROL INDICATORS

- 4 From the **Available Indicators** list add an indicator by dragging and dropping the indicator onto the **Sample Channel**.
Result: The indicator appears in the **Sample Channel**.
To remove an indicator, choose the indicator you want to remove then drag and drop it to the **Available Indicator** list.
Result: The indicator disappears from the **Sample Channel** and appears in the **Available Indicator** list.
- 5 Repeat as necessary or use the **Copy** and **Paste** buttons to replicate the changes across multiple Radio Channel controls.
- 6 Click **OK** to accept the changes and return to the main window. (To save these changes, choose **Save Configuration** on the **Console** menu.)
OR
Click **Cancel** to abort any changes and return to the main window.

SETTING RADIO CHANNEL CONTROL FREQUENCY ALIASES

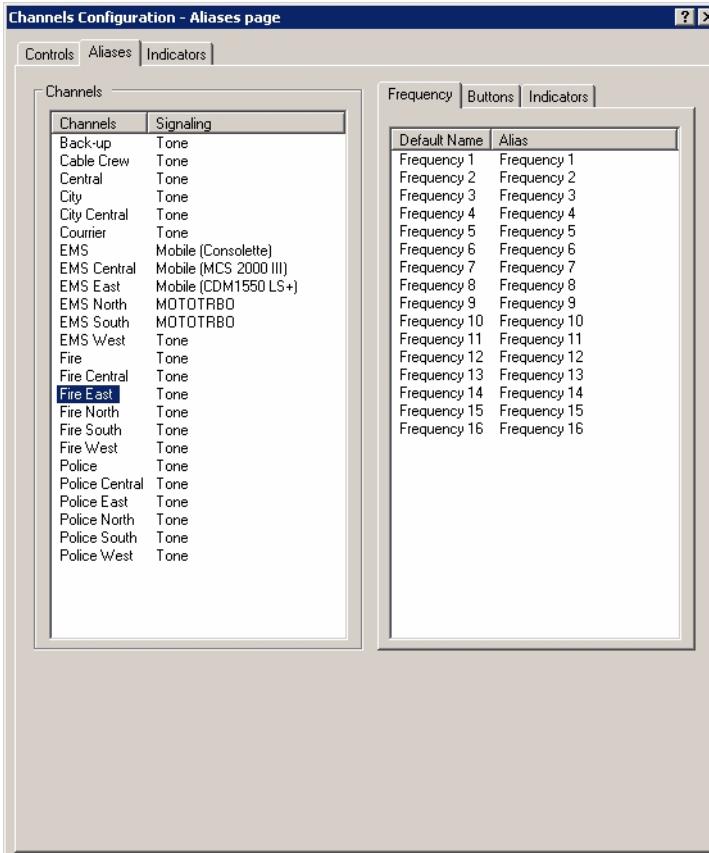
As a supervisor, you can change the up to 16 frequency names that are available for the frequencies (radio channels) of each multi-frequency Radio Channel control from the default to a customized label. The frequency alias can be different names based on the radio channel characteristics such as simplex (same transmit and receive frequency), duplex (different transmit and receive frequencies) or single transmit frequency or single receive frequency (usually used for paging).

PROCEDURE 1-21 HOW TO CHANGE FREQUENCY ALIASES

- 1 Choose **Channels Configuration** from the **Edit** menu.
Result: The **Channels Configuration** dialog box appears.
- 2 Click the **Aliases** tab in the **Channels Configuration** dialog box.
- 3 The Radio Channel controls that are available to you appear in the **Channels** list. Choose a Radio Channel control from the **Channels** list. (To choose a Radio Channel control, click on a Radio Channel control name in the list.)

PROCEDURE 1-21 HOW TO CHANGE FREQUENCY ALIASES (CONTINUED)

4 Choose the **Frequency** sub-tab to change frequency aliases.



5 Under the **Aliases** column, click twice (slower than a double-click) on the name of the alias you want to change (**Default Name** does not change). A black box appears around the alias and the alias text becomes highlighted; type a new name (alias) of up to 16 characters.

**NOTE**

An alias must have at least one valid character. The following 10 characters are not permitted in an alias: &/*?:><|

Result: The new alias appears in the text box.

6 Repeat step 3 to step 5 as required.

7 Click **OK** to accept the changes and return to the main window.

Result: The new alias appear(s) on the affected Radio Channel control(s). (To save these changes, choose **Save Configuration** on the **Console** menu.)

OR

Click **Cancel** to abort any changes and return to the main window.

SETTING RADIO CHANNEL CONTROL BUTTON ALIASES

Radio Channel control shortcut menus have commands for mobile and MOTOTRBO radios that correspond to the commands initiated by buttons on the faceplate of the radios. You can assign an alias to many of the buttons on both types of Radio Channel controls. The aliases appear in the list of commands in the shortcut menu.

MOBILE RADIOS

Different types of mobile radio have different buttons. Some of the buttons on most mobile radio sets are programmable.

For these reasons, it is not possible to assemble a stable list of command names to appear in the MIP 5000 VoIP Radio Console user interface. Instead of command names, the MIP 5000 VoIP Radio Console provides supervisors the ability to assign aliases for the radio control commands that correspond to the buttons on the radio faceplates.

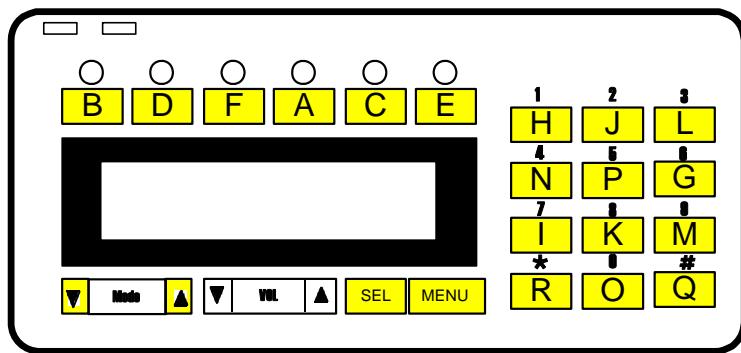
The buttons on each mobile radio faceplate have been assigned a letter to serve as the default name for the command it initiates. For example, the button in the upper, left corner of the Digital Spectra faceplate in Figure 1-4, “ASTRO Digital Spectra (Consolette) Faceplate,” appears as “Button B” in the **Channels Configuration** dialog box. As a supervisor, you can assign an alias to Button B that more accurately reflects the command initiated by pressing Button B.

When a mobile radio button has been assigned to a Radio Channel control, its alias, if one has been assigned, appears on the Radio Channel control shortcut menu.

The only buttons (commands) that have their own names and cannot be assigned an alias are some of those used to manipulate the menu, such as:

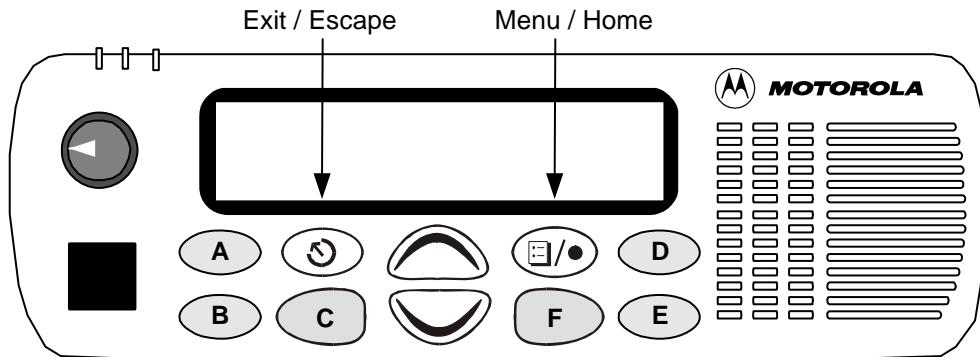
- Menu or Home buttons — called **Menu/Home**
- Select or SEL buttons — called **Select**
- Exit or Escape buttons — called **Exit/Escape**
- Up and down scroll (arrow) buttons — called **Scroll Up** and **Scroll Down**

To assist supervisors to create aliases for the mobile radio button commands, the following diagrams show the faceplate of each supported mobile radio with each button labeled with the letter for its default name. For information on the command initiated by a button, consult the documentation for the mobile radio in question.

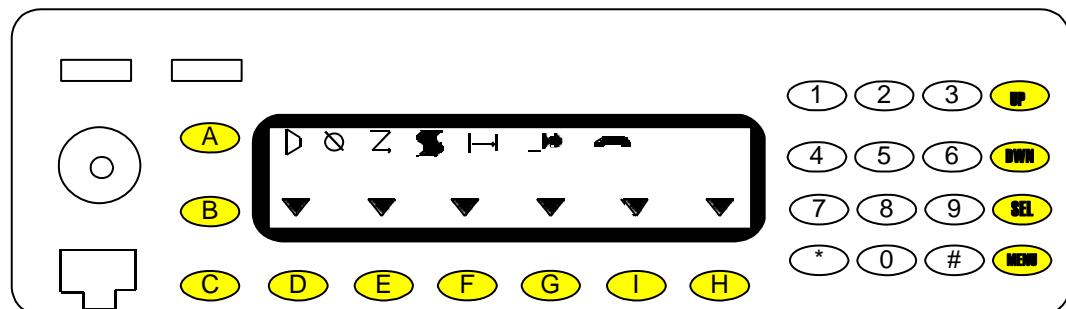
FIGURE 1-4 ASTRO DIGITAL SPECTRA (CONSOLETTE) FACEPLATE

The function buttons are shaded.

Consolette radios include the ASTRO Spectra Consolette W9, ASTRO Spectra Plus Consolette W9, and XTL 5000 Consolette

FIGURE 1-5 LTR CDM1550 LS+ FACEPLATE

The function buttons are shaded.

FIGURE 1-6 MCS 2000 III FACEPLATE

The function buttons are shaded.

MOTOTRBO RADIOS

You can assign aliases on the MOTOTRBO Radio Channel control that correspond to four Front Buttons on the radio control head and three buttons on the microphone. You can assign aliases to each command before you make the commands available on the shortcut menu.

The following radio control head Front Buttons are available for assigning aliases:

- P1
- P2
- P3
- P4

The following microphone buttons are available for assigning aliases:

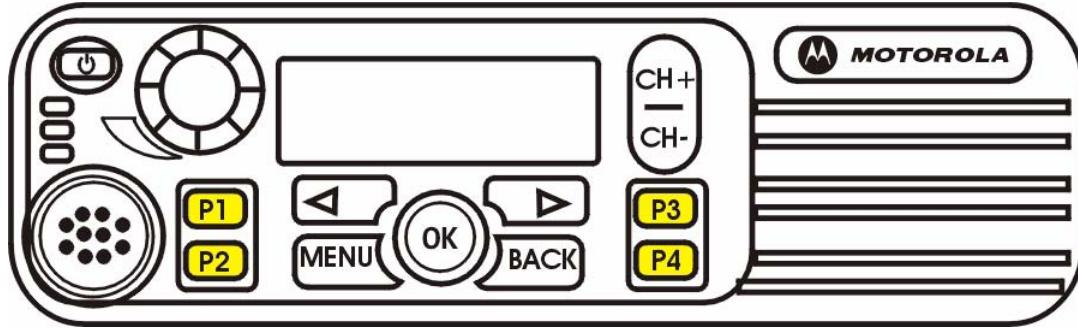
- Mic No-Dot
- Mic 1-Dot
- Mic 2-Dot

Depending on the configuration of the MOTOTRBO radio, each button can be assigned a short press and long press function. A console user can click the command on the shortcut menu for a duration corresponding to the short press and long press of any of the buttons.

When you assign an alias to a Front Button or a microphone button, you can assign short press and long press function names or acronyms to the alias within the character length and valid character limitations.

You cannot assign aliases to the following buttons: **OK**, **Menu**, **Back/Home**, **Left/Right Arrows**, and **CH+/CH-**.

FIGURE 1-7 MOTOTRBO FACEPLATE



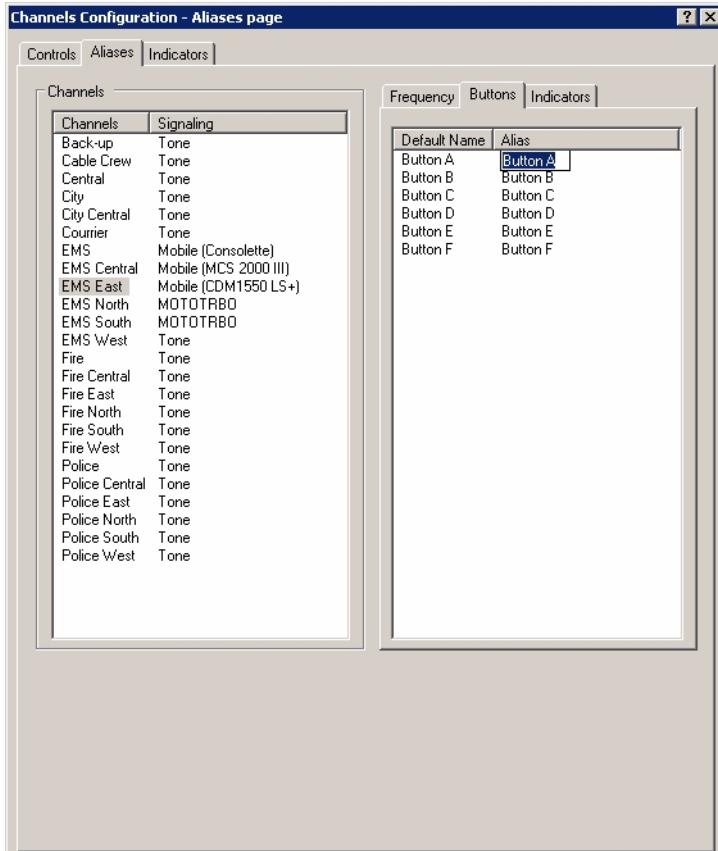
The Mic No-Dot, Mic 1-Dot, and Mic 2-Dot buttons are found on the MOTOTRBO microphone.

FIGURE 1-8 MOTOTRBO MICROPHONE MIC BUTTONS**PROCEDURE 1-22 HOW TO CHANGE BUTTON ALIASES**

- 1** Choose **Channels Configuration** from the **Edit** menu.
Result: The **Channels Configuration** dialog box appears.
- 2** Click the **Aliases** tab in the **Channels Configuration** dialog box.
- 3** The Radio Channel controls that are available to you appear in the **Channels** list. Choose a Radio Channel control from the **Channels** list.
(Click a Radio Channel control name in the list.)

PROCEDURE 1-22 HOW TO CHANGE BUTTON ALIASES (CONTINUED)

4 Choose the **Buttons** sub-tab.



5 Under the **Alias** column, click twice (more slowly than a double-click) on the name of the alias you want to change (Default Name does not change). A black box appears around the alias and the alias text becomes highlighted; type a new name (alias) of up to 16 characters.

**NOTE**

An alias must have at least one valid character. The following 10 characters are not permitted in an alias: &/*:?"><|

Result: The new alias appears in the text box.

6 Repeat step 3 to step 5 as required.

7 Click **OK** to accept the changes and return to the main window.

Result: The new alias appear(s) on the affected Radio Channel control(s). (To save these changes, choose **Save Configuration** on the **Console** menu.)

OR

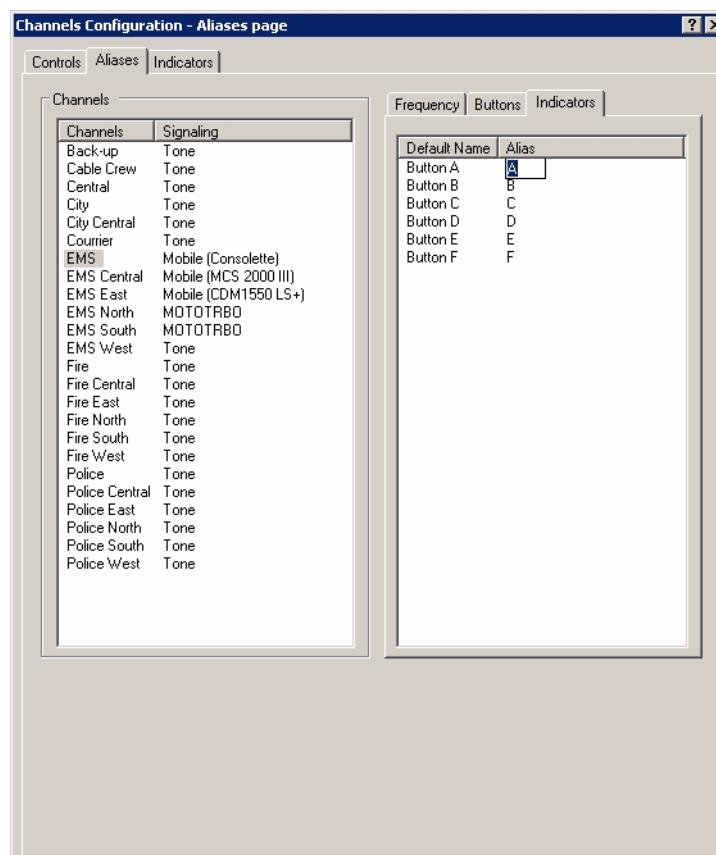
Click **Cancel** to abort any changes and return to the main window.

SETTING RADIO CHANNEL CONTROL MOBILE INDICATOR ALIASES

Indicators are associated with the command buttons, so that you can name the available mobile buttons and then the indicators for that Radio Channel control.

PROCEDURE 1-23 HOW TO CHANGE MOBILE INDICATOR ALIASES

- 1 Choose **Channels Configuration** from the **Edit** menu.
Result: The **Channels Configuration** dialog box appears.
- 2 Click the **Aliases** tab in the **Channels Configuration** dialog box.
- 3 The Radio Channel controls that are available to you appear in the **Channels** list. Choose a Radio Channel control from the **Channels** list. (To choose a Radio Channel control, click on a Radio Channel control name in the list.)
- 4 Choose the **Indicators** sub-tab.



PROCEDURE 1-23 HOW TO CHANGE MOBILE INDICATOR ALIASES (CONTINUED)

5 Under the **Alias** column, click twice (slower than a double-click) on the name of the alias you want to change (Default Name does not change). A black box appears around the alias and the alias text becomes highlighted; type a new name (alias) of up to three characters. The alias must contain at least one character.

**NOTE**

An alias must have at least one valid character. The following 10 characters are not permitted in an alias: &/*?:><|

Result: The new alias appears in the text box.

6 Repeat step 3 to step 5 as required.

7 Click **OK** to accept the changes and return to the main window.

Result: The new alias appear(s) on the affected Radio Channel control(s). (To save these changes, choose **Save Configuration** on the **Console** menu.)

OR

Click **Cancel** to abort any changes and return to the main window.

FORCING A MIP 5000 GATEWAY TO USE A NEW CONFIGURATION DATABASE

The **Controls** tab has a button that lets you, as a supervisor, force a MIP 5000 Gateway to install and start using an updated configuration database. You should only do this after a new configuration has been generated at the CSDM and is available for the gateway to download and start using.

The process of uploading a new configuration database puts a gateway (and its channel) out of service for less than two (2) minutes. Using this feature allows you to initiate this operation at a time when the channel is not in use. For more information, see “Channels Configuration Dialog Box” on page 2-31.

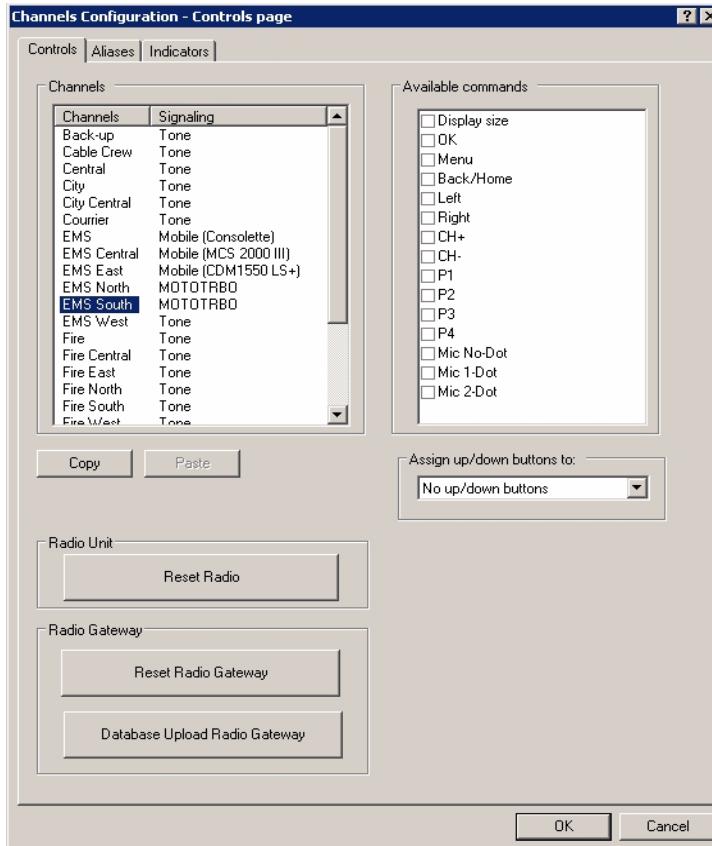
PROCEDURE 1-24 HOW TO HAVE A MIP 5000 GATEWAY UPLOAD A DATABASE

- 1 Choose **Channels Configuration** from the **Edit** menu.

Result: The **Channels Configuration** dialog box appears.

- 2 Click the **Controls** tab in the **Channels Configuration** dialog box.

Result: The **Controls** tab opens.



PROCEDURE 1-24 HOW TO HAVE A MIP 5000 GATEWAY UPLOAD A DATABASE (CONTINUED)

3 In the **Channels** list, select the Radio Channel control whose gateway you want to upload a new database.

Result: The Radio Channel control name is highlighted and the **Database Upload Radio Gateway** button becomes available.

4 Select **Database Upload Radio Gateway**.

Result: The gateway application stops and resets. If a new configuration database was available for use, the gateway starts using the new database.

RECONNECTING WITH THE RADIO

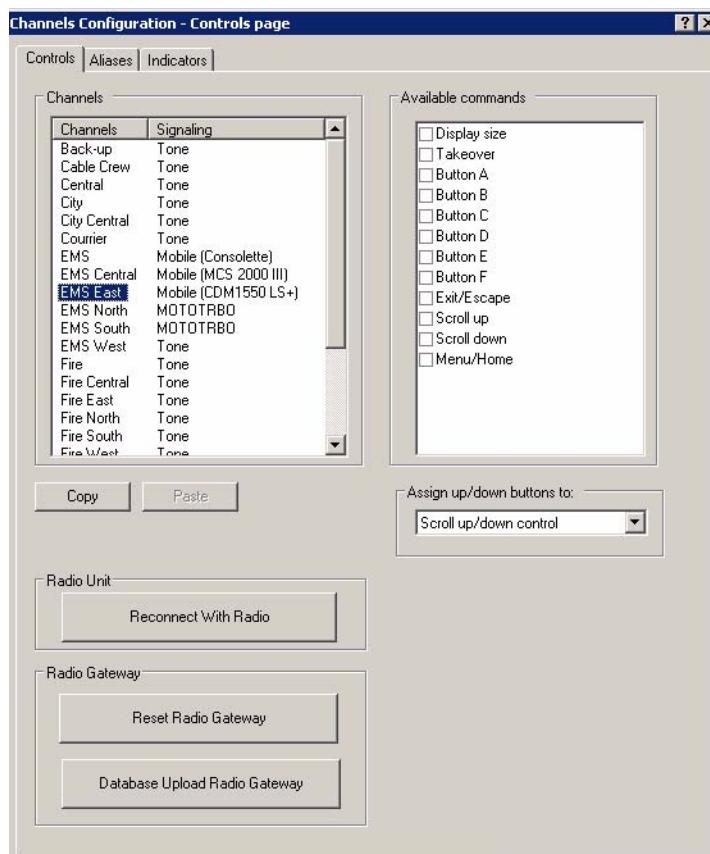
The **Controls** tab has a button that lets you, as a supervisor, re-establish communications with a mobile radio channel. If it suffers a power interruption, a mobile radio channel can stop communicating properly, causing slow or no response to attempts to use it. If this happens, you can re-establish communications on the channel using the **Reconnect With Radio** button. The **Reconnect With Radio** button is only available for mobile radio channels that are not in failure (red X on the Radio Channel control).

PROCEDURE 1-25 HOW TO RECONNECT WITH THE RADIO

- 1 Choose **Channels Configuration** from the **Edit** menu.

Result: The **Channels Configuration** dialog box appears.

- 2 Click the **Controls** tab in the **Channels Configuration** dialog box.



- 3 In the **Channels** list, select the Radio Channel Control on which you want to reconnect with its associated radio.

Result: The Radio Channel Control name is highlighted and the **Reconnect With Radio** button becomes available.

- 4 Select **Reconnect With Radio**.

Result: Communication on this mobile radio channel is re-initialized.

RESETTING A MOTOTRBO RADIO

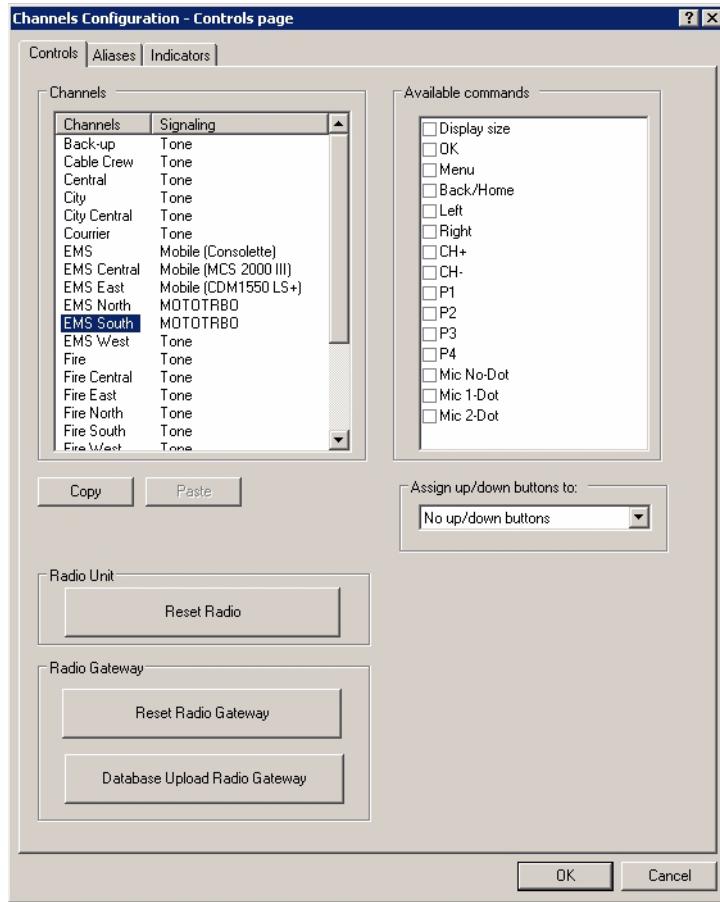
You can reset a MOTOTRBO radio from the **Control** tab to address situations in which the radio has become unresponsive or is operating abnormally. The **Reset Radio** button restarts the radio without affecting the gateway.

PROCEDURE 1-26 HOW TO RESET THE MOTOTRBO RADIO

- 1 Choose **Channels Configuration** from the **Edit** menu.

Result: The **Channels Configuration** dialog box appears.

- 2 Click the **Controls** tab in the **Channels Configuration** dialog box.
- 3 In the **Channels** list, select the MOTOTRBO Radio Channel Control on which you want to reconnect with its associated radio.



Result: The Radio Channel control name is highlighted and the **Reset Radio** button becomes available.

- 4 Select **Reset Radio**.

Result: The selected MOTOTRBO radio is restarted.

CONFIGURING MIP 5000 AUDIO

As a supervisor, you can adjust the following audio levels in the MIP 5000 VoIP Radio Console:

- “Setting System Volume Levels” on page 1-48
- “Adjusting Microphone Automatic Gain Control” on page 1-50
- “Performing Audio Tests” on page 1-52

SETTING SYSTEM VOLUME LEVELS

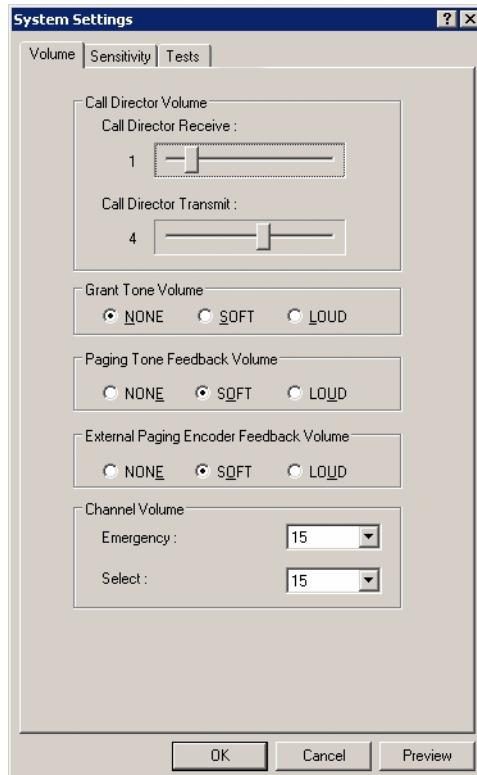
As a supervisor, you can set Call Director transmit and receive volumes, the grant tone volume (signifying that the radio channel is available and you are free to transmit), the paging tone feedback volume (for the tones sent during a page that you hear in your headset or on the select speaker) for both internal and external paging encoders, the volume of a channel with an emergency status, and the volume of the select channel. The default volume that you set in the following procedure takes effect when the channel enters its emergency or select state.

PROCEDURE 1-27 HOW TO ADJUST SYSTEM VOLUME SETTINGS

- 1 Choose **System Settings** from the **Edit** menu.

Result: The **System Settings** dialog box appears.

- 2 Click the **Volume** tab in the **System Settings** dialog box.



- 3 Under the **Call Director Volume** area, use the slide control to set the volume for the Call Director receive and transmit. Moving the slider to the right increases the volume, moving it to the left reduces the volume.
- 4 Under the **Grant Tone Volume** area, set the grant tone/talk permit tone volume as **None**, **Soft** or **Loud** by clicking the circle beside the desired volume.

Result: A dot appears beside the chosen volume.

PROCEDURE 1-27 HOW TO ADJUST SYSTEM VOLUME SETTINGS (CONTINUED)

- 5 Under the **Paging Tone Feedback Volume** area, set the feedback volume for internal paging as **None**, **Soft**, or **Loud** by clicking the circle beside the desired volume.
Result: A dot appears beside the chosen volume.
- 6 Under the **External Paging Encoder Feedback Volume** area, set the feedback volume for external paging as **None**, **Soft**, or **Loud** by clicking the circle beside the desired volume.
Result: A dot appears beside the chosen volume.
- 7 Under the **Channel Volume** area, set a different volume for a channel with an emergency through the **Emergency** drop-down menu. Typically, you set it to a higher volume (loud) (for example, 14 or 15) that then drops down to the preset level after you clear the emergency.
- 8 Also under the **Channel Volume** area, set a different volume for a selected channel through the **Select** drop-down menu. Typically, you set it to a higher volume (loud) (for example, 14 or 15) that then drops down to the preset level after you unselect the channel. The **No Effect** setting does not change the volume when the channel is selected or in an emergency.

**NOTE**

The **Emergency** channel volume takes precedence over the **Select(ed)** channel volume.

- 9 Click **OK** to accept the changes and return to the main window.
OR
Click **Cancel** to abort any changes and return to the main window.

ADJUSTING MICROPHONE AUTOMATIC GAIN CONTROL

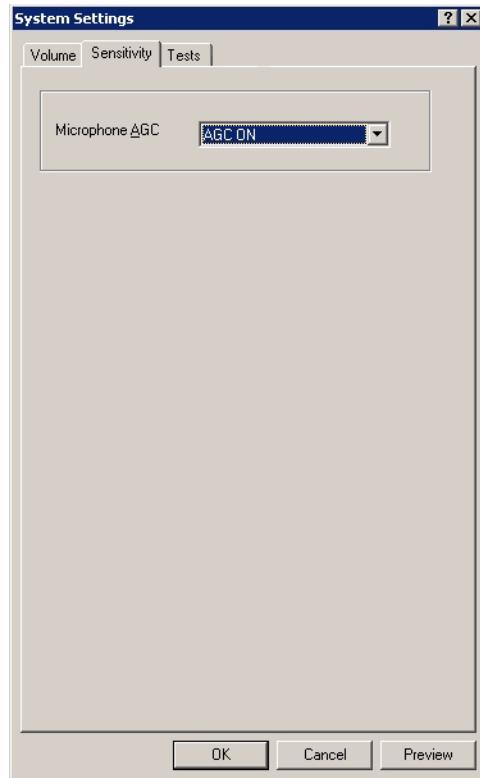
As a supervisor, you can set microphone automatic gain control (AGC) using the **System Settings** command from the **Edit** menu. The **Sensitivity** tab allows you to enable and disable AGC and change the sensitivity of microphones connected to a USB jackbox.

PROCEDURE 1-28 HOW TO ADJUST MICROPHONE SENSITIVITY

- 1 Choose **System Settings** from the **Edit** menu.

Result: The **System Settings** dialog box appears.

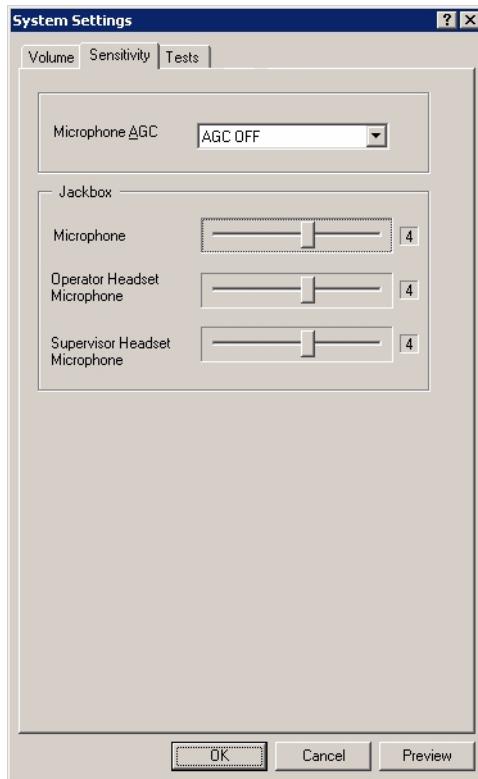
- 2 Click the **Sensitivity** tab in the **System Settings** dialog box.



PROCEDURE 1-28 HOW TO ADJUST MICROPHONE SENSITIVITY (CONTINUED)

3 To set automatic gain control for the console microphone(s), select your choice from the **Microphone AGC** list:

- **AGC ON** — to enable AGC for all microphones
- **AGC IN HEADSET** — to enable AGC for headset microphones only
- **AGC OFF** — to disable AGC for all microphones and to enable sliders that can adjust the sensitivity of any microphone connected to a USB jackbox.

**NOTE**

The AGC must be set to OFF for headsets with noise cancelling capabilities and when the environment is noisy.

AGC works the same for analog microphones and headsets, USB microphones and headsets, and USB jackbox-connected microphones and headsets.

The analog microphone is supported in the Windows XP environment only.

4 Click **OK** to accept the AGC changes and return to the main window. (To save these changes, choose **Save Configuration** from the **Console** menu.)

OR

Click **Cancel** to abort any changes and return to the main window.

PERFORMING AUDIO TESTS

A supervisor can test the console's ability to:

- Sense operator headset, supervisor headset, desktop microphone, Call Director, and external paging encoder
- Sense PTT from operator headset, supervisor headset, and footswitch
- Sense monitor operations from footswitch and desktop microphone
- Produce a tone (operator headset, supervisor headset, select audio, unselect audio, recorders 1 and 2 audio, and Call Director audio)
- Perform an audio source (microphone) test (operator, supervisor and desktop microphones, and Call Director and external paging encoder audio input)

For more detailed information on these and other system tests, see the *MIP 5000 VoIP Radio Console Installation and Configuration Manual*.



IMPORTANT

While each test is being performed, radio channel transmissions are not functional.

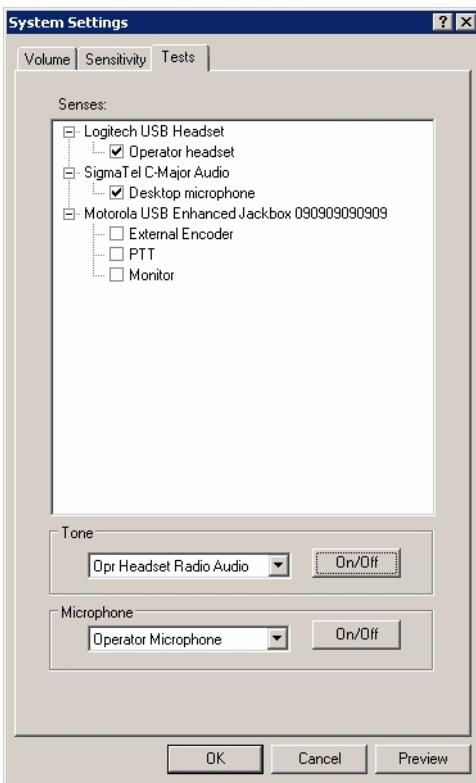


IMPORTANT

The peripheral equipment involved in these tests must be properly configured before testing begins. See Chapter 4, “Software Installation and Configuration” of *MIP 5000 VoIP Radio Console Installation and Configuration Manual* (6881013Y35) for more information on configuring MIP 5000 peripheral equipment.

PROCEDURE 1-29 HOW TO PERFORM SYSTEM TESTS

- 1 Choose **System Settings** from the **Edit** menu. The **System Settings** dialog box appears.
- 2 Click the **Tests** tab in the **System Settings** dialog box.



- 3 The display identifies the sound card on which each audio device is configured: default sound card, sound card in a USB headset or microphone, or Motorola USB jackbox sound card.

The example above shows:

- Operator headset on a USB Headset sound card
- Desktop microphone on the default computer sound card
- External paging encoder, PTT, and Monitor on a Motorola USB Enhanced Jackbox sound card

You can use this information to confirm that these audio devices are configured on the desired sound cards.

PROCEDURE 1-29 HOW TO PERFORM SYSTEM TESTS (CONTINUED)

4 To test the **PTT** sense:

- 4.1** For an operator headset: Press the PTT switch. A check mark appears in the box beside **PTT** under the sound card configured for the operator headset if it senses PTT on this switch.
- 4.2** For a dual switch foot switch: Press the pedal assigned for PTT. A check mark appears in the box beside **PTT** under the sound card configured for the footswitch if it senses PTT on this pedal.
- 4.3** For a supervisor headset: Press the PTT switch. A check mark appears in the box beside **PTT** under the sound card configured for the supervisor headset if it senses PTT on this switch.
- 4.4** For a desk microphone: Press the PTT switch on the desktop microphone. A check mark appears in the box beside **PTT** under the sound card configured for the desk microphone if it senses PTT on this switch.

OR

- 4.5** If the console does not sense PTT on these devices, a check mark does not appear.

5 To test the **Monitor** sense:

- 5.1** For a dual switch footswitch: Press the pedal assigned to monitor the selected radio channel(s). A check mark appears in the box beside **Monitor** under the sound card configured for the footswitch if monitor works on this pedal.
- 5.2** For a desk microphone: Press the monitor switch on the desktop microphone. A check mark appears in the box beside **Monitor** under the sound card configured for the desk microphone if monitor works on the microphone switch.

OR

- 5.3** If the console does not sense monitor on these devices, a check mark does not appear.

6 To generate a tone that can be heard in the operator headset, supervisor headset, select speaker, unselect speaker, recorder 1, and recorder 2, or Call Director, select the audio destination from the list. Click **On/Off** to start the tone, then click **On/Off** to end the tone.

Result: You hear a generated tone at the selected audio destination.

7 To test the operator headset microphone, supervisor headset microphone, desktop microphone, Call Director, or external paging encoder, select the audio source you want to test from the list. Click **On/Off** to enable the test, generate audio at the audio source (e.g., speak into the microphone) and then click **On/Off** to disable the test.

Result: The audio you generate can be heard at the select speaker.

PROCEDURE 1-29 HOW TO PERFORM SYSTEM TESTS (CONTINUED)

8 Click **OK** to accept any changes and return to the main window. (To save these changes, choose **Save Configuration** on the **Console** menu.)

OR

Click **Cancel** to abort any changes and return to the main window.

SETTING TIME FORMAT FOR ACTIVITY LOG AND PAGE HISTORY

The MIP 5000 VoIP Radio Console time format is applied to the Activity Log window, the Page History tab, and their log files. You can set the time format to be either 12- or 24-hour. The MIP 5000 DCPM service always uses the 24-hour format in its log file.

The time format is set in Control Panel of the Windows operating system in the Time settings tab of the **Customize Regional Options** (Windows XP and Windows Vista) or **Region and Language** dialog box (Windows 7).

FIGURE 1-9 CUSTOMIZE REGIONAL OPTIONS DIALOG BOX—WINDOWS XP

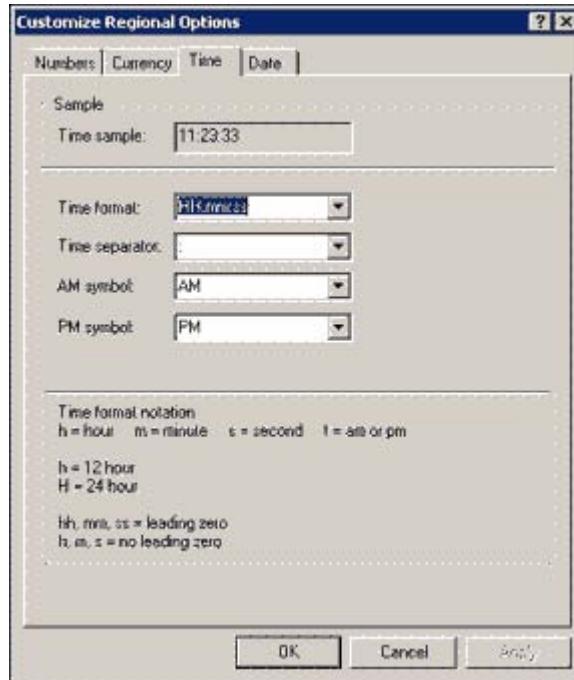
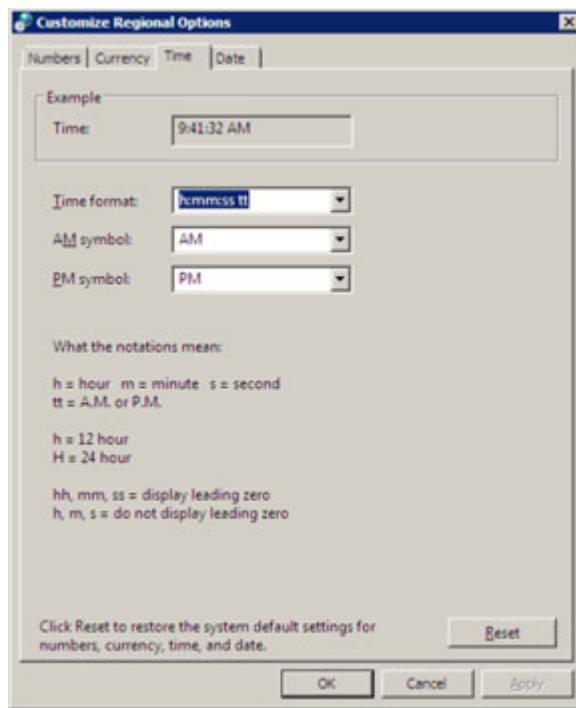
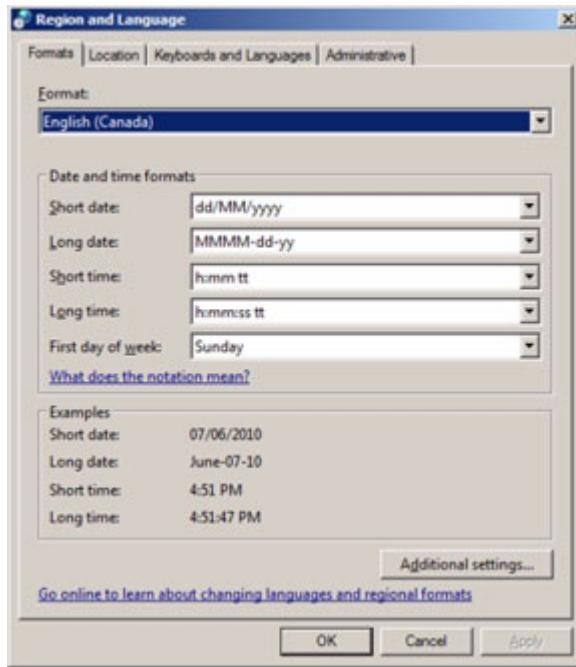


FIGURE 1-10 CUSTOMIZE REGIONAL OPTIONS DIALOG BOX—WINDOWS VISTA**FIGURE 1-11** REGION AND LANGUAGE DIALOG BOX—WINDOWS 7

Procedure 1-30 shows you how to set the time format for all three operating systems.

**NOTE**

The security policies of your organization can control access to system configurations, so consult your operating system administrator about your access to these settings.

PROCEDURE 1-30 SETTING THE TIME FORMAT

- 1 In Windows XP, click the **Start** button on the Windows taskbar, then select **Settings > Control Panel**.
In Windows Vista and Windows 7, click the **Start** button on the Windows taskbar, then select **Control Panel** from the right panel.
Result: Control Panel window appears.
- 2 Double-click the following options, depending on your Windows operating system:
 - Windows XP—**Regional and Language Options**
 - Windows Vista—**Regional and Language Options > Clock, Language, and Region**
 - Windows 7—**Region and Language****Result:** The **Regional and Language Options** dialog box appears for Windows XP, Vista. The **Regional and Language** dialog box opens in Windows 7.
- 3 Do the following, depending on your Windows operating system:
 - Windows XP—Double-click the **Customize** button.
 - Windows Vista—Double-click the **Customize this format** button.
 - Windows 7—Go to step 5.**Result:** The **Customize Regional Options** dialog box appears.
- 4 If you are using Windows XP or Vista, click the **Time** tab.
Result: The **Time** settings open.
- 5 Select one of the following formats from the **Time Format** list box (Windows XP and Windows Vista), or the **Short Time** or **Long Time** list boxes (Windows 7):
 - **h**—12 hour format with no leading zero for single-digit hours (for example, 3:45 PM)
 - **hh**—12 hour format with a leading zero for single-digit hours (for example, 03:45 PM)
 - **H**—24 hour format (for example, 15:45) with no leading zero for single-digit hours (for example, 3:45)
 - **HH**—24 hour format (for example, 15:45) with a leading zero for single-digit hours (for example, 03:45)

PROCEDURE 1-30 SETTING THE TIME FORMAT (CONTINUED)

6 Click the **Apply** button to show your selection in the **Time Sample** (Windows XP), **Time** (Windows Vista), or **Example** (Windows 7) field.

Result: The selected time format appears.

7 Select **OK** until you return to the main screen.

MAINTAINING PAGE LIST DATA

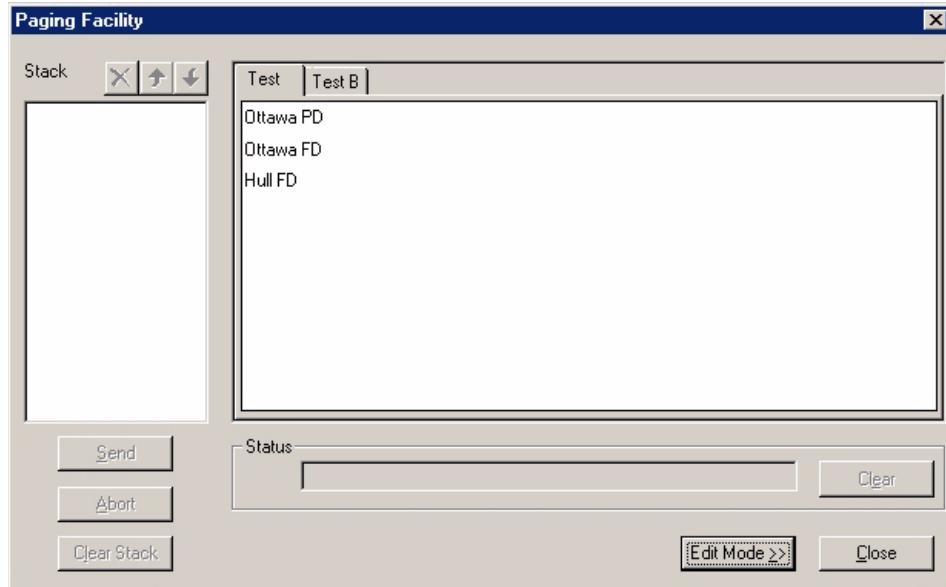
The system administrator, or an individual with the proper access level (supervisor), prepares and maintains the page lists. by performing the following tasks:

- “Adding a Page List Tab” on page 1-60
- “Editing a Page List Tab” on page 1-61
- “Deleting a Page List Tab” on page 1-62
- “Adding a New Single Page Entry” on page 1-63
- “Editing a Single Page Entry” on page 1-65
- “Deleting a Single Page Entry” on page 1-66
- “Creating a Group Page” on page 1-67
- “Editing a Group Page Entry” on page 1-69
- “Deleting a Group Page Entry” on page 1-70
- “Copying Page List Databases” on page 1-71

The paging format is set at the CSDM before the paging list is prepared; consequently, the console reflects any changes that are made at the CSDM (for instance, additions, deletions, etc.). The MIP 5000 VoIP Radio Console provides pre-programmed tabbed lists. These tabs contain a unique list of participants (individuals or agencies).

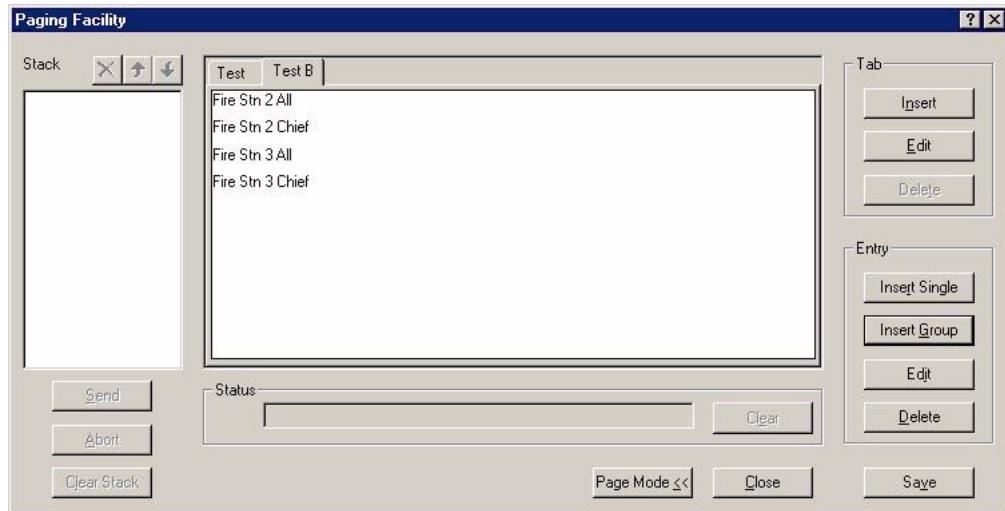
To program or edit the page list, the **Page Facility** (List) dialog box must be open. If the **Page Facility** (List) dialog box is not on your screen, click the **Page List** button on the **Toolbar** or choose **Page List** under **Tools** in the menu bar. The **Page Facility** dialog box appears.

FIGURE 1-12 PAGE FACILITY (LIST) DIALOG BOX



Choose the **Edit Mode** button. The edit features of the **Paging Facility** dialog box appear, and the **Edit Mode** button changes to the **Page Mode** button.

FIGURE 1-13 PAGE FACILITY (LIST) DIALOG BOX IN EDIT MODE



NOTE

You cannot send any pages in the edit mode. Choose the **Page Mode** button to return to page mode to send pages.

ADDING A PAGE LIST TAB

To add a tabbed page to the **Page Facility** (List) dialog box, follow this procedure:



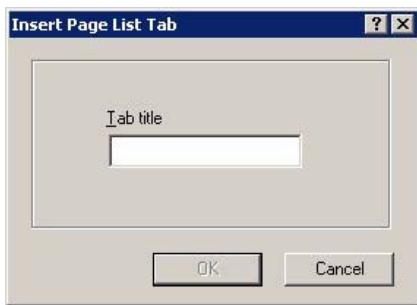
NOTE

The new tab appears immediately to the right of the currently displayed tab.

PROCEDURE 1-31 HOW TO ADD A TABBED PAGING LIST

- 1 In the **Tab** area, click the **Insert** button.

Result: The **Insert Page List Tab** dialog box appears.



- 2 In the **Tab Title** text box, type the name that you want on the new tab.



NOTE

A page list tab title must have at least one valid character. The following 10 characters are not permitted in page list tab titles:
&/*?:><|

- 3 Click **OK** to accept the new tab name.

Result: The **Page Facility** (List) dialog box appears with the new name on the new tab.

OR

Click **Cancel** to abort the addition of a new tab.

Result: The **Page Facility** (List) dialog box reappears.

- 4 On the **Page Facility** (List) dialog box, click **Save** to accept all of the changes.

Result: You return to the main screen.

EDITING A PAGE LIST TAB

To edit the name of an existing tab in the **Page Facility** (List) dialog box, follow this procedure:

PROCEDURE 1-32 HOW TO EDIT A PAGE LIST TAB

- 1 Click the tab you want to edit.
- 2 In the **Tab** area, click the **Edit** button.

Result: The **Edit Page List Tab** dialog box appears with the current name in the text box.



- 3 In the **Tab Title** text box, highlight the old name and type the new name or edit the name, if required.



NOTE

A page list tab title must have at least one valid character. The following 10 characters are not permitted in page list tab titles: &/*?:><|

- 4 Click **OK** to accept the new tab name.

Result: The **Page Facility** (List) dialog box appears with the new name on the tab.

OR

Click **Cancel** to abort the new name.

Result: The **Page Facility** (List) dialog box reappears.

- 5 On the **Page Facility** (List) dialog box, click **Save** to accept all of the changes.

OR

Click **Close** to close the dialog box.

Result: You return to the main screen.

DELETING A PAGE LIST TAB

To delete a tabbed page from the **Page Facility** (List) dialog box, you must remove all of the entries from the list first. See “Deleting a Single Page Entry” on page 1-66.

PROCEDURE 1-33 HOW TO DELETE A PAGE LIST TAB

1 After the tab is empty of entries, click the tab you want to delete

2 In the **Tab** area, click the **Delete** button.

Result: A dialog box appears.



3 Choose **OK** to delete the selected tab.

Result: The tabbed page disappears.

OR

Choose **Cancel** to abort this action.

4 On the **Page Facility** (List) dialog box, click **Save** to accept all of the changes.

OR

Click **Close** to close the dialog box.

Result: You return to the main screen.

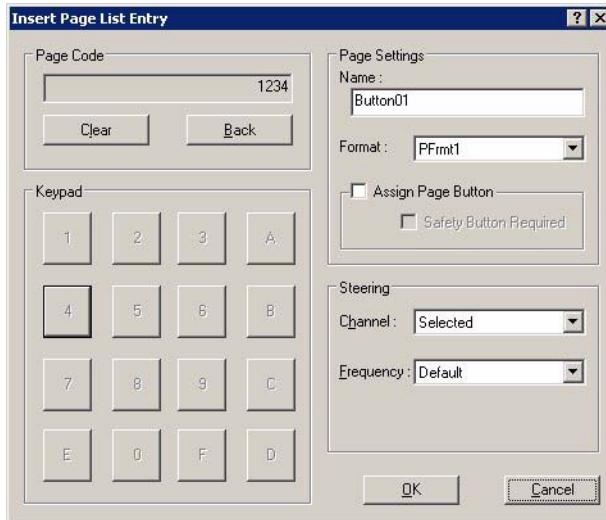
ADDING A NEW SINGLE PAGE ENTRY

To insert a new single page entry into the **Page Facility** (List) dialog box, follow this procedure:

PROCEDURE 1-34 HOW TO ADD A NEW SINGLE PAGE ENTRY

- 1 Click the tab of the page where you want the new entry to appear.
- 2 In the **Entry** area, click the **Insert Single** button.

Result: The **Insert Page List Entry** dialog box appears.



- 3 Under the **Page Settings** area, in the **Name** text box, type an identifying name for the entry.



NOTE

A page list entry name must have at least one valid character. The following 10 characters are not permitted in page list entry names: & / \ * : ? " > < |

- 4 Choose the paging format for the entry from the **Format** drop-down menu. Paging formats are defined at the CSDM.
- 5 Depending on your **Format** choice, key the appropriate paging sequence via the **Keypad** area. The sequence appears in the **Page Code** area. Use the **Clear** and **Back** buttons to correct any mis-typed characters.
- 6 If desired, select the check box to assign this page to a **Single Page** button.

Result: A check mark appears in the box.

Also, if desired, select the **Safety Button Required** check box, which requires a **Safety** button to activate this page when it is assigned to a **Single Page** button.

Result: A check mark appears in the box.

PROCEDURE 1-34 HOW TO ADD A NEW SINGLE PAGE ENTRY (CONTINUED)

7 To send a page to this entry on a specific radio channel and frequency, set these options in the **Steering** area. Choose the radio channel and frequency for this page entry from the **Channel** and **Frequency** drop-down menus. If you want to send the page on the radio channel and frequency of the radio channel selected on your system, leave the default settings of **Selected (Channel)** and **Default (Frequency)** for each option.

**NOTE**

Digital channels do not appear in the list of channels. A digital radio can only be paged when it is the currently selected channel.

8 Click **OK** to accept the new entry.

Result: The **Page List** appears with the new entry under the currently displayed tab.

OR

Click **Cancel** to abort the new entry.

Result: The **Page Facility (List)** dialog box reappears.

9 On the **Page Facility (List)** dialog box, click **Save** to accept all of the changes.

OR

Click **Close** to close the dialog box.

Result: You return to the main screen.

EDITING A SINGLE PAGE ENTRY

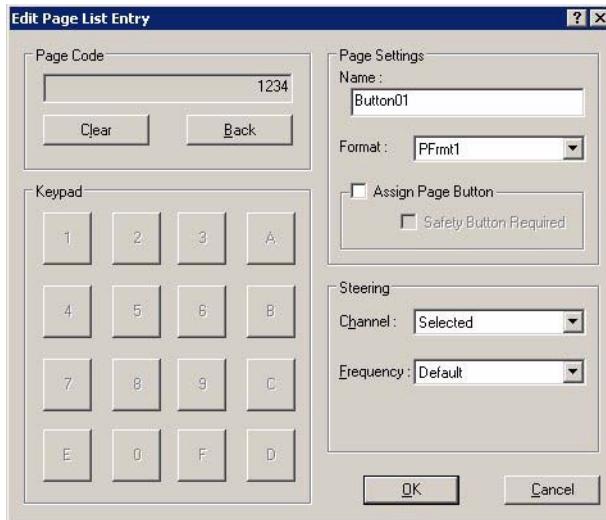
To edit an existing single page entry in the **Page List**, follow this procedure:

PROCEDURE 1-35 HOW TO EDIT AN EXISTING SINGLE PAGE ENTRY

1 Choose the single page you want to edit.

2 Under **Entry**, click the **Edit** button.

Result: The **Edit Page List Entry** dialog box appears, containing the current information for that entry.



3 Edit the entry information as required.

4 Click **OK** to accept the changes.

Result: The **Page Facility (List)** dialog box appears with the corrected entry.

OR

Click **Cancel** to abort the changes.

Result: The **Page Facility (List)** dialog box reappears.

5 On the **Page Facility (List)** dialog box, click **Save** to accept all of the changes.

OR

Click **Close** to close the dialog box.

Result: You return to the main screen.

DELETING A SINGLE PAGE ENTRY

To delete a single page entry from the **Page Facility (List)** dialog box, follow this procedure:

PROCEDURE 1-36 HOW TO DELETE A SINGLE PAGE ENTRY

- 1** Choose the single page you want to delete.
- 2** Under the **Entry** area, click the **Delete** button.
Result: A warning dialog box appears.



- 3** Choose the **OK** button. The entry disappears.
OR
Choose the **Cancel** button to abort this action.
- 4** On the **Page Facility (List)** dialog box, click **Save** to accept all of the changes.
OR
Click **Close** to close the dialog box.
Result: You return to the main screen.

CREATING A GROUP PAGE

After you have created single pages by clicking **Insert Single** in Edit Mode of the **Page Facility** dialog box, you can create a Group Page. A Group Page lets you add up to 50 single pages into one group. You can order the pages within the group to dictate the order in which the pages are transmitted.



NOTE

Single pages must exist before you create Group Pages.



NOTE

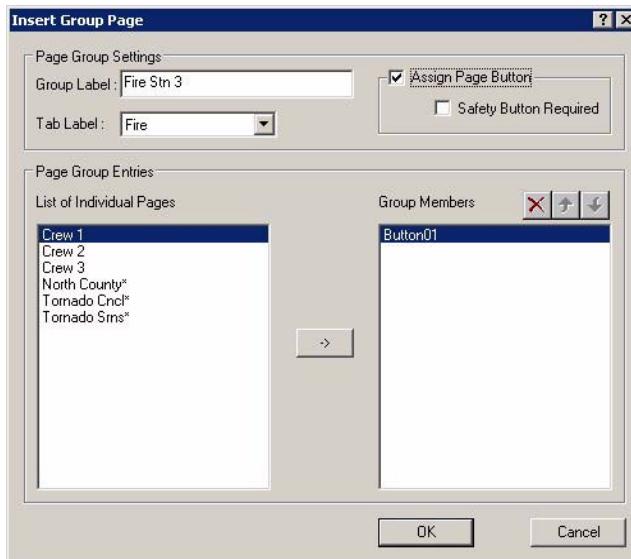
You cannot add a group within another group.

To create a group page, follow this procedure:

PROCEDURE 1-37 HOW TO CREATE A GROUP PAGE

- 1 In the Entry area, click **Insert Group**.

Result: The **Insert Group Page** dialog box appears.



PROCEDURE 1-37 HOW TO CREATE A GROUP PAGE (CONTINUED)

2 In the **Page Group Settings** area, type a group name in the **Group Label** text box.

**NOTE**

A page group label must have at least one valid character. The following 10 characters are not permitted in page group labels: &/*?:><|

A page group label can be up to 12 characters. Depending upon the characters used, all 12 might not be visible in the Page Facility list due to truncation. If using all uppercase, limit aliases to 11 or fewer characters.

3 Choose the tab that contains the desired individual pages in the **Tab Label** text box.

Result: The individual pages that appear on the tab are listed.

4 If desired, select the check box to assign this group page to a **Single Page** button.

Result: A check mark appears in the box.

Also, if desired, select the **Safety Button Required** check box, which requires a **Safety** button to activate this page when it is assigned to a **Single Page** button.

Result: A check mark appears in the box.

5 In the **Page Group Entries** area, add individual pages by selecting from the **List of Individual Pages** and clicking the right-pointing arrow.

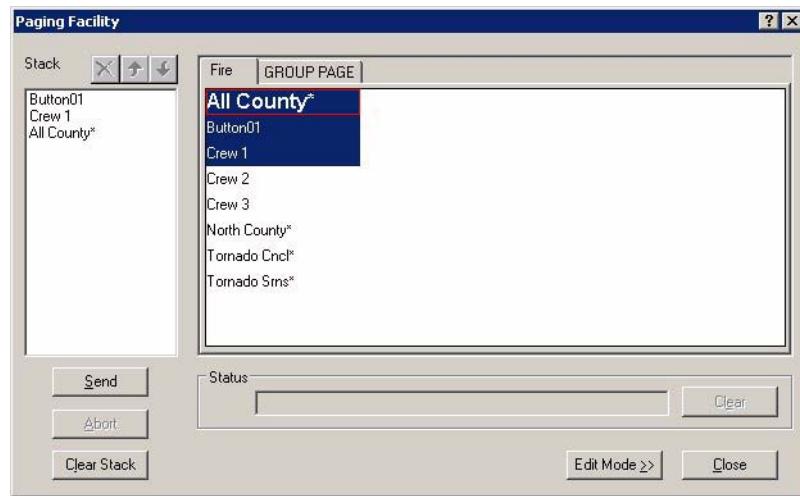
Result: The individual pages are listed in the **Group Members** area.

6 If required, click on a page in the **Group Members** area, and use the **Move Up Arrow** and **Move Down Arrow** buttons to arrange the list of pages in the correct order; or use the **X** (Delete) button to remove a page from the list.

7 Click **OK** to save the changes.

Result: You return to the **Page Facility (List)** dialog box.

After groups are created, they are listed in the **Paging Facility** dialog box in bold and at a larger text size. Figure 1-14, “Group and Single Page Button Example,” indicates **Fire Stn 2** and **Fire Stn 3** as group pages, plus **Fire Stn 3** is a group page assigned to a **Single Page** button (an asterisk demonstrates the **Single Page** button assignment).

FIGURE 1-14 GROUP AND SINGLE PAGE BUTTON EXAMPLE

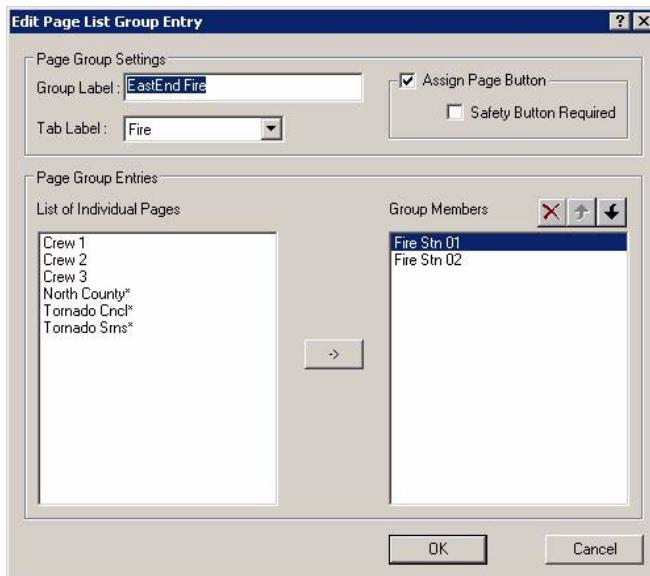
EDITING A GROUP PAGE ENTRY

To edit an existing group page entry in the **Page List**, follow this procedure:

PROCEDURE 1-38 HOW TO EDIT AN EXISTING GROUP PAGE ENTRY

- 1 Choose the group page you want to edit.
- 2 Under **Entry**, click the **Edit** button.

Result: The **Edit Page List Group Entry** dialog box appears, containing the current information for that entry.



- 3 Edit the entry information if required.

PROCEDURE 1-38 HOW TO EDIT AN EXISTING GROUP PAGE ENTRY (CONTINUED)

4 Click **OK** to accept the changes.
Result: The **Page Facility** (List) dialog box appears with the corrected entry.
OR
Click **Cancel** to abort the changes.
Result: The **Page Facility** (List) dialog box reappears.

5 On the **Page Facility** (List) dialog box, click **Save** to accept all of the changes.
OR
Click **Close** to close the dialog box.
Result: You return to the main screen.

DELETING A GROUP PAGE ENTRY

To delete a group page entry from the **Page Facility** (List) dialog box, follow this procedure:

PROCEDURE 1-39 HOW TO DELETE A GROUP PAGE ENTRY

1 Choose the group page you want to delete.
2 Under the **Entry** area, click the **Delete** button.
Result: A dialog box appears.



3 Choose the **OK** button. The entry disappears.
OR
Choose the **Cancel** button to abort this action.
4 On the **Page Facility** (List) dialog box, click **Save** to accept all of the changes.
OR
Click **Close** to close the dialog box.
Result: You return to the main screen.

COPYING PAGE LIST DATABASES

To copy a modified Page List database from one computer to other computers, follow this procedure:

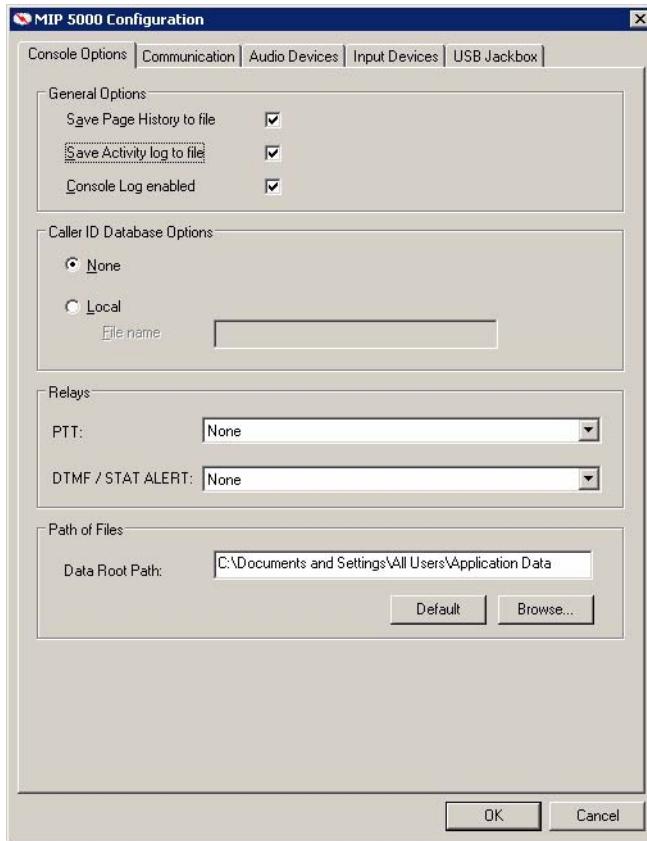
PROCEDURE 1-40 HOW TO COPY PAGE LIST DATABASES TO OTHER COMPUTERS

- 1 Click the Windows **Start** button, then choose **Settings > Control Panel**.

Result: The Windows **Control Panel** appears.

- 2 Double-click the **MIP 5000 Configuration** icon.

Result: The **MIP 5000 Configuration** dialog box appears, showing the **Console Options** tab.



PROCEDURE 1-40 HOW TO COPY PAGE LIST DATABASES TO OTHER COMPUTERS

3 The **Page list files (*.PAG)** are located in the following subfolder under the Data Root Path.

\Motorola\MIP 5000\OIM\INI

On computers running Windows XP, the complete default path is:

C:\Documents and Settings\All Users\Application Data\Motorola\MIP 5000\OIM\INI

On computers running Windows Vista, the complete default path is:

C:\ProgramData\Motorola\MIP 5000\OIM\INI

4 Use Windows Explorer and locate the files in Step 3.

5 Use Windows Explorer to copy the files to the appropriate **Page list files** folder on each console computer either through the network or using removable storage media, such as a USB flash drive (memory stick) or a floppy disk.

**NOTE**

While you are copying the files to a console computer, the MIP 5000 VoIP Radio Console must be logged out.

**NOTE**

Specific Pages might be unavailable if their attributes in the current database do not match those assigned by the originating paging database (determined by the originating CSDM). Those unavailable Pages will appear dimmed in the **Page List** display. Non-matching attributes include different page names and page formats (for example: Motorola 1+1 versus DTMF).

MAINTAINING THE CALLER ID DATABASE

This section describes how to perform the following tasks:

- “Adding a Caller ID Alias” on page 1-73
- “Viewing Caller ID Alias List” on page 1-75
- “Editing a Caller ID Alias” on page 1-75
- “Deleting a Caller ID Alias” on page 1-76
- “Searching the Caller ID Alias List” on page 1-77
- “Clearing the Caller ID Alias List” on page 1-78
- “Copying Caller ID Databases” on page 1-79

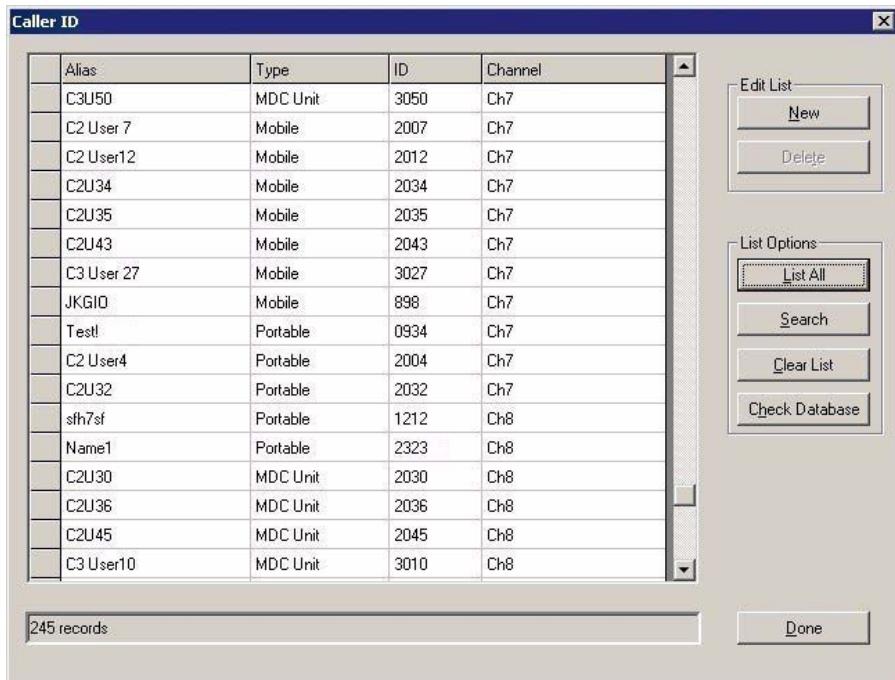
ADDING A CALLER ID ALIAS

To add a caller ID alias to the database, follow this procedure:

PROCEDURE 1-41 HOW TO ADD A CALLER ID ALIAS TO THE CALLER ID DATABASE

- 1 Choose **Caller ID** from the **Tools** menu.

Result: The **Caller ID** dialog box appears.



- 2 Choose the **New** button under the **Edit List** area.

Result: This takes you to the end of the **Caller ID** list.

- 3 Double click in the **Alias** column to put the list in edit mode.

- 4 Type the caller's alias (usually the user's name) in the **Alias** text box (Maximum 16 characters).

- 5 Use your **Tab** key to move to the next column in the line.

OR

Double click in the next column. The column is now in edit mode.

PROCEDURE 1-41 HOW TO ADD A CALLER ID ALIAS TO THE CALLER ID DATABASE

6 Specify the signaling protocol that the caller uses through the **Type** list. The available options are:

- **MDC Unit** (uses STAT-ALERT protocol)
- **Message** (uses the STAT-ALERT protocol and signifies that the caller is sending a message)
- **Status** (uses the STAT-ALERT protocol and signifies that the caller is sending their status)
- **DTMF**
- **ASTRO Unit**
- **MOTOTRBO**

7 Set the identifying PTT ID of the user in the **ID** text box. The **Type** column selection affects:

- The number of characters allowed in this text box (maximum four characters)
- The type of character allowed in this text box (**DTMF**—0-9, A-D, #, *; **Message**, **Status**, **ASTRO Unit**, **MOTOTRBO**—numbers only; **MDC Unit**—0-9, A-E).

8 Use the **Channel** drop-down menu to associate radio channel(s) with this alias. Only channels available to the console appear in this drop-down list.

9 Use your TAB key to add another entry.
OR
Click on the next line to only add this entry.

Result: Your entry appears in the **Caller ID** dialog box. The program automatically saves the changes to the Caller ID database. If the entry is incomplete, it is automatically discarded.

10 Click **Check Database** to verify that the entry contains no errors. If database indicates “OK”, click **Done**. Otherwise, modify either the Alias, Type, ID, or channel text boxes accordingly.

11 Click the **Done** button to exit from the **Caller ID** dialog box

VIEWING CALLER ID ALIAS LIST

To view the **Caller ID** alias list, follow this procedure:

PROCEDURE 1-42 HOW TO VIEW THE CALLER ID ALIAS LIST

- 1 Choose **Caller ID** from the **Tools** menu.

Result: The **Caller ID** dialog box appears.

- 2 Choose the **List All** button under the **List Options** area.

Result: The list refreshes and presents, in the **Caller ID** dialog box, all of the caller ID aliases in the **Caller ID** database.

- 3 Choose the **Done** button to return to the main window.

EDITING A CALLER ID ALIAS

To edit an existing caller identification alias, follow this procedure:

PROCEDURE 1-43 HOW TO EDIT A CALLER ID ALIAS

- 1 Choose **Caller ID** from the **Tools** menu.

Result: The **Caller ID** dialog box appears.

- 2 To ensure that the **Caller ID** dialog box lists all of the caller ID aliases, click the **List All** button under the **List Options** area.

Result: The list refreshes and presents, in the **Caller ID** dialog box, all of the caller ID aliases in the **Caller ID** database.

- 3 Double-click any column in the desired alias line in the **Caller ID** list.

Result: A pencil appears beside the entry you chose to show that you are in edit mode. Text columns allow you to edit the text and drop-down menu options appear for columns with drop-down lists.

- 4 Change the columns if required.

Result: Your change appears in the **Caller ID** dialog box.

- 5 Click the **Done** button to exit from the **Caller ID** dialog box. The program automatically saves your changes

OR

Choose the **ESC** key (on your keyboard) to exit the **Caller ID** dialog box without saving your changes.

DELETING A CALLER ID ALIAS

To delete a caller identification alias, follow this procedure:

PROCEDURE 1-44 HOW TO DELETE A CALLER ID ALIAS

- 1 Choose **Caller ID** from the **Tools** menu.

Result: The **Caller ID** dialog box appears.

- 2 To ensure that the **Caller ID** dialog box lists all of the caller ID aliases, click the **List All** button under the **List Options** area.

Result: The list refreshes and presents, in the **Caller ID** dialog box, all of the caller ID aliases in the Caller ID database.

- 3 Choose the entry you want to delete.

- 4 Choose the **Delete** button under the **Edit List** area.

Result: A dialog box appears.



- 5 Choose the **Yes** button to delete the selected entry.

OR

Choose the **No** button to cancel this action and return to the **Caller ID** dialog box.

SEARCHING THE CALLER ID ALIAS LIST

To search the **Caller ID** alias list, follow this procedure:

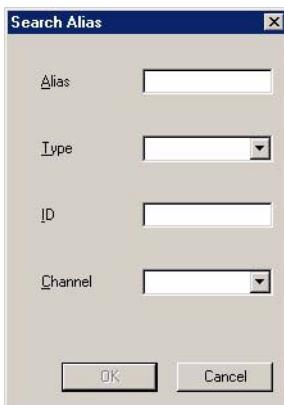
PROCEDURE 1-45 HOW TO SEARCH THE CALLER ID ALIAS LIST

- 1 Choose **Caller ID** from the **Tools** menu.

Result: The **Caller ID** dialog box appears.

- 2 Choose the **Search** button under the **List Options** area.

Result: The **Search Alias** dialog box appears.



- 3 Type the parameters you want to search for in the available text boxes.

- 4 Choose the **OK** button to search the **Caller ID** list.

Result: The entry(ies) matching any or all of your search parameters appear(s) in the **Caller ID** dialog box. (For example, if you type a "3" in the **ID** text box, the search lists all Caller IDs with a "3" anywhere in the ID.)

OR

Choose the **Cancel** button to cancel this search and return to the **Caller ID** dialog box.

CLEARING THE CALLER ID ALIAS LIST

To clear or remove the information currently on the screen of the **Caller ID** dialog box (alias list) follow this procedure:



NOTE

This procedure does not affect the database — it only removes text from the screen.

PROCEDURE 1-46 HOW TO CLEAR THE CALLER ID ALIAS LIST

- 1 Choose **Caller ID** from the **Tools** menu.

Result: The **Caller ID** dialog box appears.

- 2 To ensure that the **Caller ID** dialog box lists all of the caller ID aliases, click the **List All** button under the **List Options** area.

Result: The list refreshes and presents, in the **Caller ID** dialog box, all of the caller ID aliases in the **Caller ID** database.

- 3 Choose the **Clear List** button under the **List Options** area.

Result: The entries in the **Caller ID** dialog box disappear from view.

- 4 Choose the **Done** button to return to the main window.

COPYING CALLER ID DATABASES

To copy a Caller ID database from one MIP 5000 VoIP Radio Console computer to other MIP 5000 VoIP Radio Console computers:

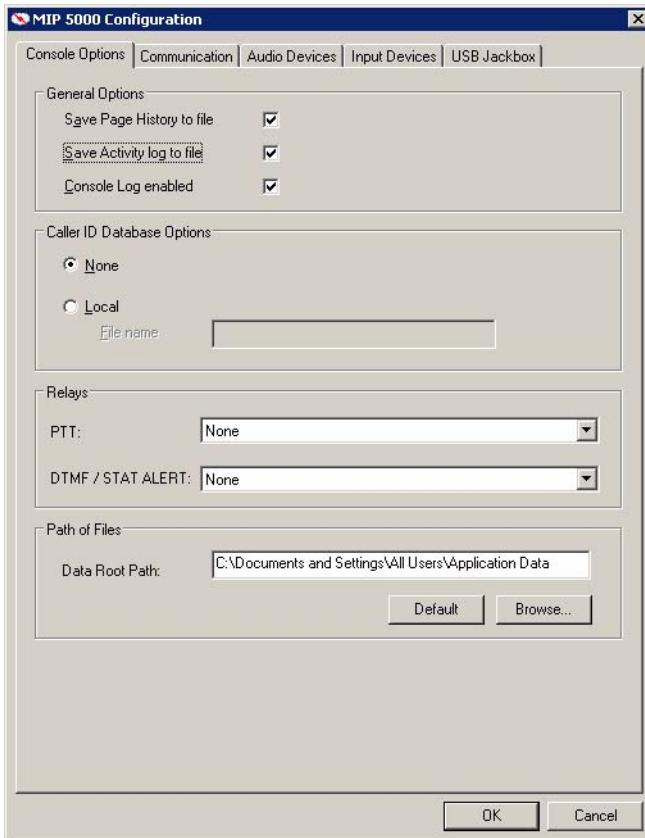
PROCEDURE 1-47 HOW TO COPY CALLER ID DATABASES TO OTHER CONSOLE COMPUTERS

- 1 Click the Windows **Start** button, then choose **Settings > Control Panel**.

Result: The Windows Control Panel appears.

- 2 Double-click the **MIP 5000 Configuration** icon.

Result: The **MIP 5000 Configuration** dialog box appears, showing the **Console Options** tab.



**PROCEDURE 1-47 HOW TO COPY CALLER ID DATABASES TO OTHER CONSOLE COMPUTERS
(CONTINUED)**

3 The **Caller ID files (*.XML)** are located in the following subfolder under the Data Root Path.

\Motorola\MIP 5000\OIM\INI

On computers running Windows XP, the complete default path is:

**C:\Documents and Settings\All Users\Application
Data\Motorola\MIP 5000\OIM\INI**

On computers running Windows Vista, the complete default path is:

C:\ProgramData\Motorola\MIP 5000\OIM\INI

4 Use Windows Explorer to locate the Caller ID files.

5 Use Windows Explorer to copy the files to the appropriate **Caller ID files** folder on each console computer either through the network or using removable storage media, such as a USB flash drive (memory stick) or a floppy disk.

**NOTE**

While you are copying the files to a console computer, the MIP 5000 VoIP Radio Console must be logged out.

SAVING AND COPYING THE CONFIGURATION

The console configuration file stores the screen layout and the configuration of assigned resources such as channels. If you want, you can define all the different configurations required by your system on a single console computer and copy them to the consoles where they are needed.

You can also define several configuration files for each console. It might be desirable, for example, to define configuration files related to “storm plans,” when console operators might need access to channels that they do not normally use. To gain access to a different configuration (with different available channels, if required) a console operator can load a different configuration file using the **Console > Load Configuration** command.

You can save a modified configuration in one of two ways. Copying a configuration involves copying files to another console. Procedures for doing so are described in:

- “Saving Changes in the Current Configuration File” on page 1-81
- “Saving Changes in a Different Configuration File” on page 1-81
- “Copying a Configuration from One Console to Another” on page 1-83

SAVING CHANGES IN THE CURRENT CONFIGURATION FILE

To save the modified configuration in the current file, follow this procedure:

PROCEDURE 1-48 HOW TO SAVE A CONFIGURATION IN THE CURRENT FILE

- 1 Choose **Save Configuration** from the **Console** menu.

Result: Your changes are saved in the currently active configuration file.

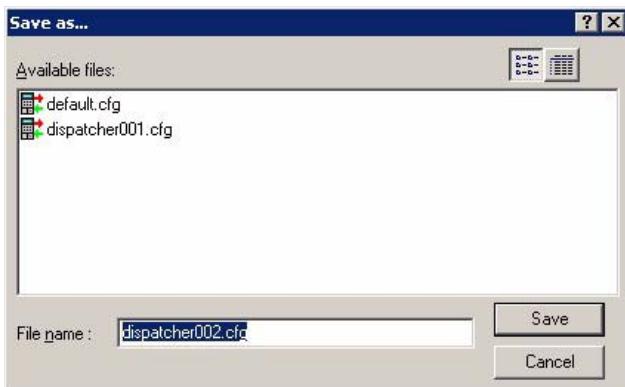
SAVING CHANGES IN A DIFFERENT CONFIGURATION FILE

To save the modified configuration in a different configuration file, follow this procedure:

PROCEDURE 1-49 HOW TO SAVE A CONFIGURATION IN A DIFFERENT FILE

- 1 Choose **Save Configuration As** from the **Console** menu.

Result: The **Save As** dialog box appears.



NOTE

Files are stored in a pre-determined location (no browsing).

PROCEDURE 1-49 HOW TO SAVE A CONFIGURATION IN A DIFFERENT FILE (CONTINUED)

2 Type a new name in the **File name** text box.

**NOTE**

If desired, you can name the configuration file to match the MIP 5000 user name of the operator who will be using this console. You can create a separate configuration file for each operator who will use this console.

When the operator logs on, the configuration file whose file name is the same as the operator's MIP 5000 user name is automatically selected for use. If there is no match, the operator must choose a configuration file.

3 Click **Save**.

Result: You return to your main window and the new file name appears in the title bar.

COPYING A CONFIGURATION FROM ONE CONSOLE TO ANOTHER

To copy a configuration from one console computer to another follow this procedure:

PROCEDURE 1-50 How to Copy a Console Configuration

- 1 Configure a console to have the attributes you want to share among all consoles and save the configuration file. Be sure to take note of the name of the configuration file.



IMPORTANT

Screen layout can only be copied effectively if the screen resolution on the computers receiving the copied configuration is the same as the screen resolution of the computer from which the configuration was copied.

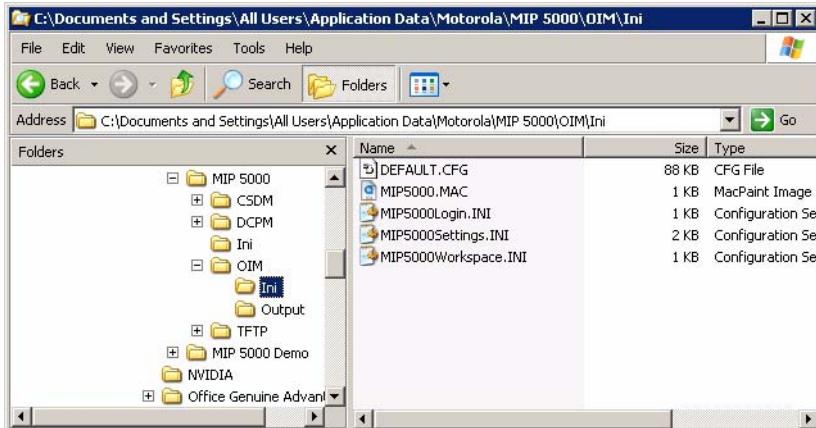
- 2 Use Windows Explorer to navigate to the MIP 5000 INI folder. This folder is located under the Data Root Path.

On computers running Windows XP, the complete default path is:

C:\Documents and Settings\All Users\Application Data\Motorola\MIP 5000\OIM\INI

On computers running Windows Vista or Windows 7, the complete default path is:

C:\ProgramData\Motorola\MIP 5000\OIM\INI



- 3 Copy the desired configuration (CFG) file (<filename>.cfg) to a network folder accessible by all consoles or to removable media, such as a USB memory stick, a CD-RW, or a floppy disk.

PROCEDURE 1-50 HOW TO COPY A CONSOLE CONFIGURATION (CONTINUED)

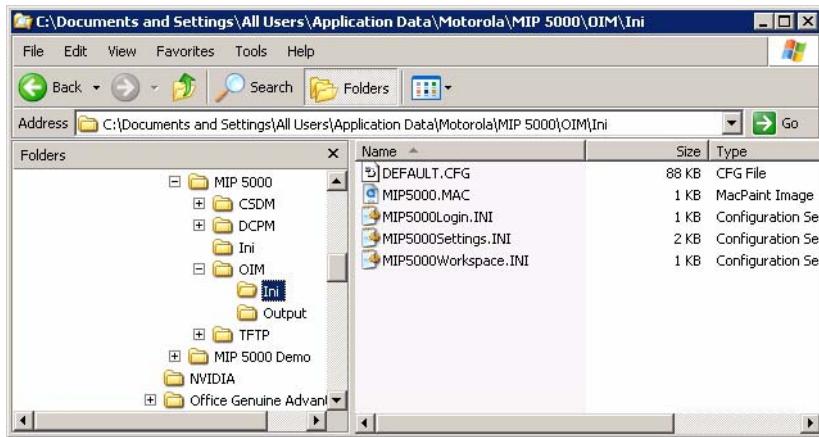
4 Use Windows Explorer to navigate to the MIP 5000 INI folder. This folder is located under the Data Root Path.

On computers running Windows XP, the complete default path is:

C:\Documents and Settings\All Users\Application Data\Motorola\MIP 5000\OIM\INI

On computers running Windows Vista or Windows 7, the complete default path is:

C:\ProgramData\Motorola\MIP 5000\OIM\INI



5 Copy the Configuration Settings file named MIP5000Workspace.INI to a network folder accessible by all consoles or to removable media, such as a USB memory stick, a CD-RW, or a floppy disk.

6 On each console computer that is to use the copied configuration, copy the desired configuration (CFG) file (<filename>.cfg) to the Data Root Path folder.

On computers running Windows XP, the complete default path is:

C:\Documents and Settings\All Users\Application Data\Motorola\MIP 5000\OIM\INI

On computers running Windows Vista or Windows 7, the complete default path is:

C:\ProgramData\Motorola\MIP 5000\OIM\INI

**IMPORTANT**

The MIP 5000 VoIP Radio Console program must be installed on the computer before you copy the configuration files to it.

PROCEDURE 1-50 HOW TO COPY A CONSOLE CONFIGURATION (CONTINUED)

7 On each console computer that is to use the copied configuration, copy the MIP5000Workspace.INI file to the Data Root Path folder.

On computers running Windows XP, the complete default path is:

**C:\Documents and Settings\All Users\Application
Data\Motorola\MIP 5000\OIM\INI**

On computers running Windows Vista or Windows 7, the complete default path is:

C:\ProgramData\Motorola\MIP 5000\OIM\INI

8 Start the MIP 5000 VoIP Radio Console program, log on, and load the copied configuration (CFG) file to use the adopted configuration.

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SUPERVISOR MENU COMMANDS

This section describes the supervisor commands found on the MIP 5000 VoIP Radio Console menus and the dialog boxes associated with those commands.



NOTE

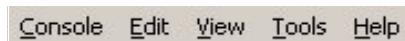
After logging in, you must select the **Allow Layout Reconfiguration** command on the **Edit** menu and type the console supervisor password to gain access to supervisor commands.

Supervisor commands include the **Miscellaneous Window**, **Toolbar**, **Activity Log Window**, **Volume Window**, and **Information Window** commands on the **View** menu, the **Caller ID** command on the **Tools** menu, and all other commands on the **Edit** menu. The **Console** menu enables supervisors to save configurations. These commands are unavailable until you have entered the supervisor password.

The menu bar includes:

- “Console Menu” on page 2-1
- “Edit Menu” on page 2-4
- “View Menu” on page 2-45
- “Tools Menu” on page 2-50
- “Help Menu” (see operator manual)

FIGURE 2-1 MENU BAR



CONSOLE MENU

As a supervisor, the **Console** menu lets you:

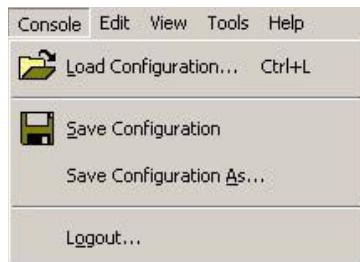
- Save any changes to your configuration

- Save any changes to your configuration under another name

The **Console** menu contains the following commands:

- “Load Configuration Command” (see operator manual)
- “Save Configuration Command” on page 2-2
- “Save Configuration As Command” on page 2-2
- “Logout Command” (see operator manual)

FIGURE 2-2 CONSOLE MENU



LOAD CONFIGURATION COMMAND

For information on the **Load Configuration** command, see the *MIP 5000 VoIP Radio Console Operator Manual* (6881013Y34).

SAVE CONFIGURATION COMMAND

This command on the **Console** menu lets you, as a supervisor, save any changes to the currently loaded configuration. A modification entails any change to the user preferences, resources or main window layout of the program. See “Customizing the Main Window” on page 1-6 and “Saving and Copying the Configuration” on page 1-80 for more information.

If you want to save the configuration under another name use the “Save Configuration As Command” on page 2-2.

SAVE CONFIGURATION AS COMMAND

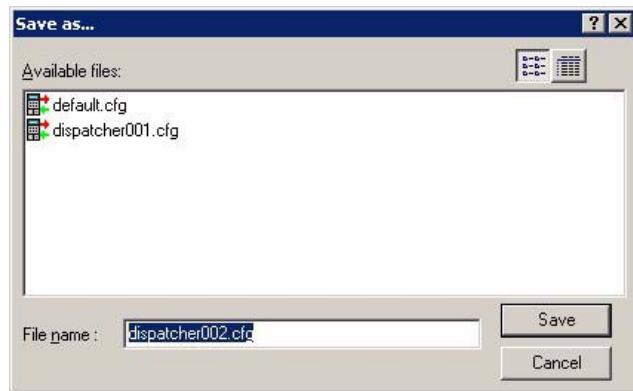
This command on the **Console** menu opens the **Save As** dialog box where you, as a supervisor, can save any changes to the currently loaded configuration profile under a different name. A modification entails any change to the user preferences, resources or main window layout of the program. See “Customizing the Main Window” on page 1-6 and “Saving and Copying the Configuration” on page 1-80 for more information.

SAVE AS DIALOG BOX

Console > Save Configuration As

Use this dialog box to save any changes to the currently loaded configuration profile under a different name. The system administrator sets up a default location for these files in the Control Panel.

FIGURE 2-3 SAVE AS DIALOG BOX



AVAILABLE FILES LIST

Displays all files with a file extension of "cfg". To write over an existing configuration file (other than the current one) highlight the file in the list and click the **Save** button.

FILE NAME

Displays the current file name of the configuration file. Type the new file name in the text box before clicking the **Save** button.

BUTTONS

SAVE

Click the button to save the configuration file and exit the dialog box. A confirmation dialog box appears asking you to confirm your action.

CANCEL

Click the button to exit the dialog box without saving your changes.

LOGOUT COMMAND

For information on the **Logout** command, see the *MIP 5000 VoIP Radio Console Operator Manual* (6881013Y34).

EDIT MENU



NOTE

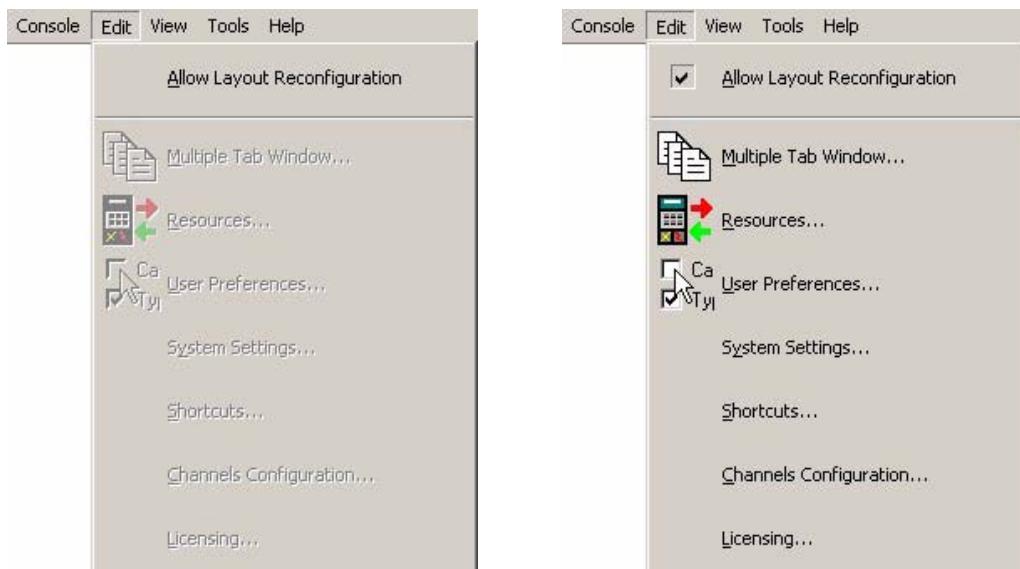
After logging in, you must select the **Allow Layout Reconfiguration** command on the **Edit** menu and type the console supervisor password to gain access to supervisor commands.

Supervisor commands include the **Miscellaneous Window**, **Toolbar**, **Activity Log Window**, **Volume Window**, and **Information Window** commands on the **View** menu, the **Caller ID** command on the **Tools** menu, and all other commands on the **Edit** menu. These commands are unavailable until you have entered the supervisor password.

The **Edit** menu contains the following commands:

- “Allow Layout Reconfiguration Command” on page 2-5
- “Multiple Tab Window Command” on page 2-5
- “Resources Command” on page 2-8
- “User Preferences Command” on page 2-10
- “System Settings Command” on page 2-21
- “Shortcuts Command” on page 2-28
- “Channels Configuration Command” on page 2-31
- “Licensing Command” on page 2-44

FIGURE 2-4 EDIT MENU WITH ALLOW LAYOUT RECONFIGURATION DISABLED AND ENABLED



ALLOW LAYOUT RECONFIGURATION COMMAND

Select this command to allow changes to the main window (position and location of button/channels, volume, zoom, and colors). If you have not enabled this feature, you cannot change anything on the main window. This command also allows access to supervisor commands on the **View** and **Tools** menus. To disable this feature, select the command a second time.

The MIP 5000 VoIP Radio Console program starts with this feature disabled.

As a supervisor, you can use this command to permit changing the settings for a logged in operator. When selected, a dialog box appears asking for a supervisor password. You should enter your supervisor password (set at the CSDM), perform the changes on the console and disable this option to return the console to an unchangeable state. After you have entered the password, a check mark appears on the **Edit** menu beside the **Allow Layout Reconfiguration** command.

FIGURE 2-5 CONFIGURATION PASSWORD DIALOG BOX



MULTIPLE TAB WINDOW COMMAND

This command on the **Edit** menu opens the **Edit Multiple Tab Window** dialog box where you, as a supervisor, can add, rename, move, and/or remove tabs from the Multiple Tab window. See “Adding a New Tab to the Multiple Tab Window” on page 1-11 and “Renaming, Moving, and Deleting Tabbed Windows” on page 1-11 for more information.

EDIT MULTIPLE TAB WINDOW DIALOG BOX

Edit > Multiple Tab Window

You can use this dialog box to add, rename, move and/or remove tabs from the Multiple Tab window.

For adding, moving or deleting a tab, it is the only dialog box. For renaming a tab, it is the first dialog box in a series of two dialog boxes with the second being the “Rename Tab Dialog Box” on page 2-7.

FIGURE 2-6 EDIT MULTIPLE TAB WINDOW**CURRENT TAB**

When you select a name in the **Tabs** list, this text box displays the tab name of the highlighted tab. Otherwise, the text box remains empty. Type the new tab name in the text box before clicking the **Add** button.

TABS LIST

Displays all tabs in the current configuration. Highlight the desired tab in the list before clicking the any of this dialog box's seven Command buttons. When you highlight the desired tab, the tab name appears in the **Current Tab** text box.

BUTTONS**ADD**

The button becomes active once a name is typed in the **Current Tab** text box. Click the button to add a new tab to the Multiple Tab window.

DELETE

Click the button to delete the current tab.

RENAME

Click the button to rename the current tab. The **Rename Tab** dialog box opens.

MOVE UP

Click the button to move the currently selected tab to the left one position (on the main window). The current tab moves up one position in the **Tabs** list.

MOVE DOWN

Click the button to move the currently selected tab to the right one position (on the main window). The current tab moves down one position in the **Tabs** list.

OK

Click the button to save all changes to the tab settings (including adding, renaming, moving and deleting), close the dialog box and return to the main window.

CANCEL

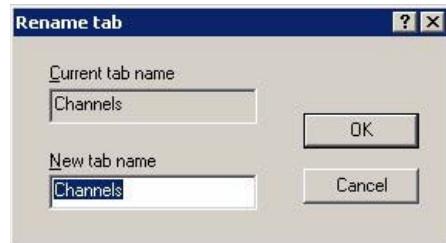
Click the button to exit the dialog box and return to the main window without making any changes.

RENAME TAB DIALOG BOX

Edit > Multiple Tab Window > Rename Button

You can use this dialog box to rename the currently selected tab in the Multiple Tab window. This dialog box is the second in a series of two dialog boxes with the first being the **Edit Multiple Tab Window** dialog box.

FIGURE 2-7 RENAME TAB DIALOG BOX

**CURRENT TAB NAME**

Displays the current tab name. This tab is selected in the **Edit Multiple Tab Window** dialog box.

NEW TAB NAME

Displays the current tab name. Type the new tab name in the text box before clicking the **OK** button.

BUTTONS**OK**

Click the button to save the tab name, close the dialog box and return to **Edit Multiple Tab Window** dialog box.

CANCEL

Click the button to close the dialog box and return to **Edit Multiple Tab Window** dialog box without renaming a tab.

RESOURCES COMMAND

This command on the **Edit** menu opens the **Resources Management** dialog box allows you, as a supervisor, to add, move and delete buttons or controls (resources) on your main window. The areas affected by this command are the Toolbar, the Multiple Tab window and the Miscellaneous window. See “Moving a Button or Control” on page 1-14 and “Deleting a Button or Control” on page 1-15 for more information.

The following table lists the buttons you can rename.

TABLE 2-1 RENAMEABLE FUNCTION BUTTONS/CONTROLS

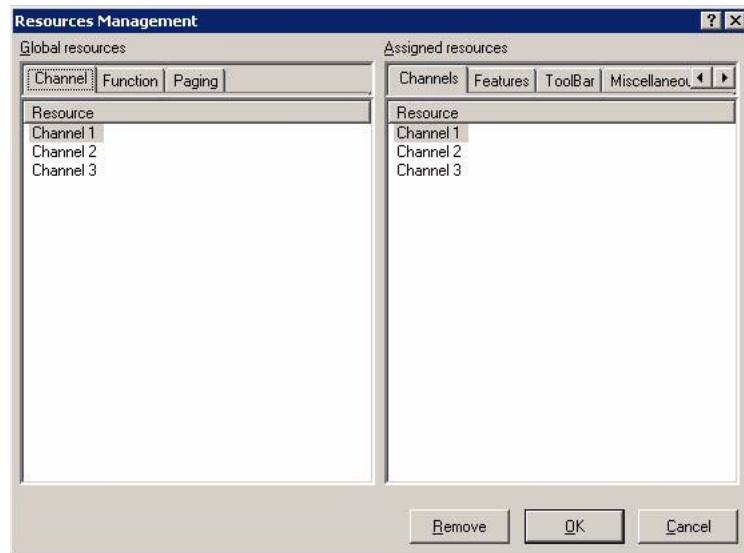
Common Tx button	Alert # button (3 total)	All Mute button
APB # button (10 total)	Base Icom button	Call Dir control
Man Page button	Monitor button	Mrk Tone button
MSel # button (10 total)	MSel w/o M button	Page List button
Patch # button (10 total)	Patch w/o M button	Safety button
Supervisory button		

RESOURCES MANAGEMENT DIALOG BOX

Edit > Resources

You can use this dialog box to add, move, and delete buttons or controls (resources) within the main window components.

The **Assigned Resources** list (right-side of dialog box) represents the tabs, windows, buttons and Radio Channel controls currently assigned on your main window. The **Global Resources** list (left-side of dialog box) represents all of the resources (buttons, Radio Channel controls, etc.) available for you to assign to your existing main window components.

FIGURE 2-8 RESOURCES MANAGEMENT DIALOG BOX

GLOBAL RESOURCES LIST

Displays the currently available buttons or controls on your console. Click the desired tab and select resources from the list before dragging and dropping them in the appropriate main window component's **Assigned Resources** list.

The resource tab choices are: **Channel** (Radio Channel Control) button types, **Function** button types, and **Paging** button types.

ASSIGNED RESOURCES LIST

Displays the current resource assignment for each available main window component. Click the appropriate tab before dragging and dropping resources (buttons or controls) selected in the Global Resources list to selected window or **Toolbar** list.

The main window component tab choices are: [Tab Name] for each tab in the Multiple Tab window, Miscellaneous window and **Toolbar**.



NOTE

Radio Channel Controls cannot be added to the **Toolbar**. The **Toolbar** is only able to hold single-operation function buttons.

BUTTONS

REMOVE

Click the button to remove the selected resource in the active **Assigned Resources** list tab.

OK

Click the button to save all the changes to the resource assignment (including additions, re-assignments and deletions), close the dialog box and return to the main window.

CANCEL

Click the button to close the dialog box and return to the main window without modifying the resource assignments.

USER PREFERENCES COMMAND

This command on the **Edit** menu opens the **User Preferences** dialog box where you, as a supervisor, create a customized screen layout and configuration (per console, if needed).

See “Setting the General Layout” on page 1-9, “Setting the Size of Buttons, Controls and Windows” on page 1-17, “Setting Display Colors” on page 1-19, and “Setting Activity Log Window Features” on page 1-21.

USER PREFERENCES DIALOG BOX

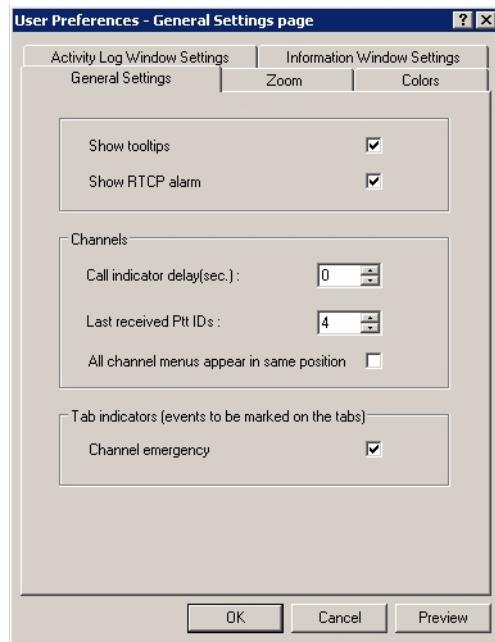
As a supervisor, you use this dialog box to set the size of buttons and controls, screen and button colors, main window characteristics and other aspects of the appearance of the screen. You can also enable tab indicators for the Multiple Tab window, as well as some miscellaneous functions.

The **User Preferences** dialog box has the following four tabs: **General Settings**, **Zoom**, **Colors**, **Activity Log Window Settings**, and **Information Window Settings**.

GENERAL SETTINGS

Edit > User Preferences > General Settings

As a supervisor, you use this tab to set some general features that affect the overall main window. For instance, you can enable or disable ToolTips, set the time delay for the Call indicator and set tab indications of events occurring at the console.

FIGURE 2-9 USER PREFERENCES > GENERAL SETTINGS

SHOW TOOL TIPS

Check the check box to allow the user to pause the mouse pointer over a button on the **Toolbar** that causes a small text description of the button's function to appear. To disable this feature, clear the check box.

SHOW RTCP ALARM

Clear this check box to prevent network errors from being indicated in the status bar. When checked (default) the word NET in the status bar has a yellow background when a network error is detected and flashes when the error affects this console. When not checked, the word NET in the status bar has a green background and does not flash.

CHANNELS AREA

CALL INDICATOR DELAY (SEC)

Type the desired time (in seconds) in the field or use the up and down arrows to specify the length of time a call indicator remains on the screen after a call is released. Valid settings are 0 – 30 seconds.

LAST RECEIVED PTT IDs

Type the desired number in the field or use the up and down arrows to activate the Unit ID Queue option on the Radio Channel Control shortcut menu and specify the number of PTT identifications listed on the shortcut menu.

ALL CHANNEL MENUS APPEAR IN SAME POSITION

Click the check box to have the shortcut menu for every radio channel appear in the same position on the screen. An operator can change the position by dragging any channel menu to a new spot. To disable this feature, clear the check box.

By default, each channel menu appears to the right of its own Radio Channel Control.

TAB INDICATORS (EVENTS TO BE MARKED ON THE TABS) AREA**CHANNEL EMERGENCY**

Check the check box to enable this feature. This feature allows an indicator to appear on the tab of the page that the event is occurring on. An event is when a channel emergency occurs on a Multiple Tab window for a Radio Channel Control that is not visible on your main window. The tab with the Radio Channel Control receiving an emergency turns red and the **Emergency** indicator appears next to the tab name. To disable this feature, click the check box again.

BUTTONS**OK**

Click the button to accept the changes, close the dialog box and return to the main window. (To save these changes, choose the **Save Configuration** command on the **Console** menu.)

CANCEL

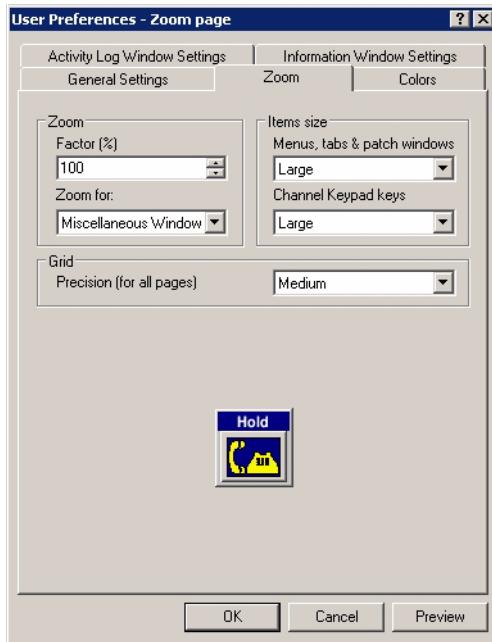
Click the button to cancel changes or any changes that were previewed, close the dialog box, and return to the main window.

PREVIEW

Click the button to see your changes before accepting them.

ZOOM**Edit > User Preferences > Zoom**

As a supervisor, you use this tab to set the size of the buttons and controls on the screen via the **Factor (%)** numerical spin box, increases the size of the shortcut and normal menus, and sets the grid precision for buttons and controls on the entire console. The **Zoom** drop-down list box identifies the specific area where the button/channel size is being adjusted. You can adjust the button and control sizes in the Multiple Tab (each tab is independent) and Miscellaneous windows, and also **Patch Interface** and **Toolbar**.

FIGURE 2-10 USER PREFERENCES > ZOOM**ZOOM AREA****FACTOR (%)**

Type the size (in percentage) in the field or use the up and down arrows to increase or decrease the size of the button. The sample button increases or decreases accordingly. The zoom range is 30 to 300%.

ZOOM FOR

Click the down arrow and choose the region where you want to increase or decrease the size of the buttons/channels from the drop-down list.

ITEMS SIZE AREA**MENUS, TABS, & PATCH WINDOWS**

Click the down arrow and choose the size of the menus (shortcut and title bar menus) on your main window from the drop-down list. The choices are small, medium, and large.

CHANNEL KEYPAD KEYS

Click the down arrow and choose the size of the mobile and MOTOTRBO buttons of the keypad that opens beside the Radio Channel control. The choices are **Small**, **Medium**, **Large**, and **Extra Large**.

GRID AREA

PRECISION (FOR ALL PAGES)

Click the down arrow and select the alignment grid when moving or aligning buttons or controls throughout the main window from the drop-down list. The choices are coarse, medium or fine grid.

BUTTONS

OK

Click the button to accept the changes, close the dialog box and return to the main window. (To save these changes, choose the **Save Configuration** command on the **Console** menu.)

CANCEL

Click the button to cancel any changes or any changes that were previewed and return to the main window.

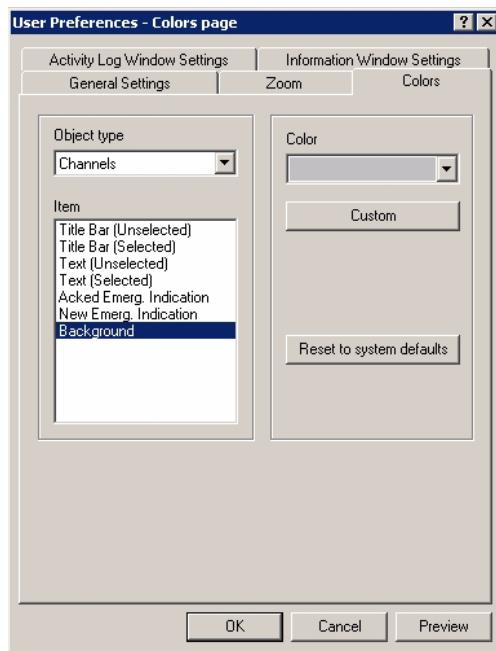
PREVIEW

Click the button to see your changes before accepting them.

COLORS

Edit > User Preferences > Colors

As a supervisor, you use this tab to modify the colors of the various displays in the program. For instance, you can change the background color of the Multiple Tab window, the label color of the button or control that is the current focus, or the inactive or active text color. The default colors of your screen depend on your computer's Windows default colors.

FIGURE 2-11 USER PREFERENCES > COLORS

OBJECT TYPE

Click the down arrow and choose the desired general area that you want to change from the following drop-down list:

- Multiple Tab Window
- Miscellaneous window
- Toolbar
- Channels
- Buttons & Indicators
- Page Buttons

The **Item** list changes to reflect your choice of object type.

ITEM

Click the down arrow and choose the component whose color you wish to change from the drop-down list.

COLOR

Click the down arrow and choose the color of the component specified in the **Item** list from the **Color** drop-down list.

BUTTONS

CUSTOM

Click the button to open a standard **Windows Color** dialog box. Design your custom color.

RESET TO SYSTEM DEFAULTS

Click the button to return the colors to the system default colors.

OK

Click the button to accept the changes, close the dialog box and return to the main window. (To save these changes, choose the **Save Configuration** command on the **Console** menu.)

CANCEL

Click the button to cancel changes or any previewed changes, close the dialog box and return to the main window.

PREVIEW

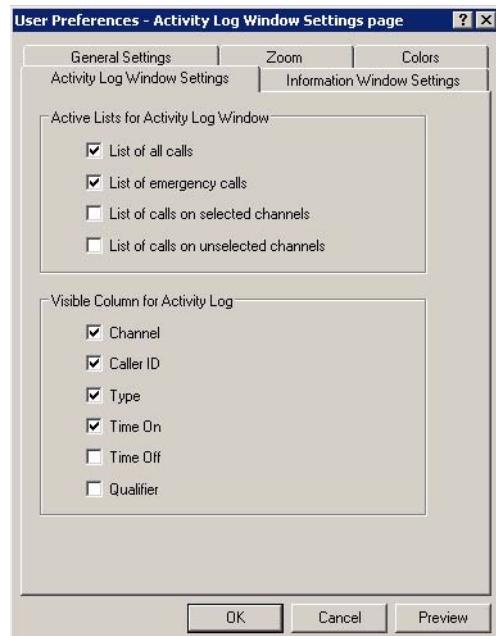
Click the button to see your changes before accepting them.

ACTIVITY LOG WINDOW SETTINGS

Edit > User Preferences > Activity Log Window Settings

As a supervisor, you use this tab to set up the appearance and contents of the Activity Log window. The Activity Log window provides you with a view and access to a list of all calling channel activities at the console. The window is separated into four possible tabs: **All Calls**, **Emergency**, **Select** (not showing by default) and **Unselect** (not showing by default) lists. If configured, each tab list displays the **Channel**, the **Caller ID** (identification), the type of call, the time the call started (**Time On**), the time the call ends (**Time Off**), and the **Qualifier** for MOTOTRBO channels.

The Activity Log window is also where you silence the emergency call alarm, and acknowledge and clear emergency Radio Channel control calls.

FIGURE 2-12 USER PREFERENCES > ACTIVITY LOG SETTING

ACTIVE LISTS FOR ACTIVITY LOG WINDOW AREA

LIST OF ALL CALLS

Check the check box to identify and note details of all active calls received at your console. This tabbed list combines all types of calls into one list. To disable this feature, click the check box again.

LIST OF ALL EMERGENCY CALLS

Check the check box to identify and note details of all emergency calls received at your console. This tabbed list contains only emergency calls. To disable this feature, click the check box again.

LIST OF CALLS ON SELECTED CHANNELS

Check the check box to identify and note details on all selected radio channels active at your console.

LIST OF CALLS ON UNSELECTED CHANNELS

Check the check box to identify and note details on all unselected radio channels active at this console.

VISIBLE COLUMN FOR ACTIVITY LOG AREA

CHANNEL

Check the check box to identify the radio channel number/identification of the active transmission. To disable this feature, click the check box again.

CALLER ID

Check the check box to show the alias name of the caller. To disable this feature, click the check box again.

TYPE

Check the check box to show the type of active call (PTT ID, Emergency, etc.). To disable this feature, click the check box again.

TIME ON

Check the check box to show the time that the call begins. To disable this feature, click the check box again.

TIME OFF

Check the check box to show the time that the call ends. To disable this feature, click the check box again.

QUALIFIER

Check the check box to show the call qualifier, which describes outgoing and incoming calls and alerts for MOTOTRBO radios. Table 2-2 lists the Activity Log Events for MOTOTRBO radios, including the qualifiers used for each event.

**NOTE**

Table 2-2 shows the following short forms for Call Events: PC (Private Calls), GC (Group Calls), and AC (All Calls).

TABLE 2-2 MOTOTRBO ACTIVITY LOG EVENTS IN DIGITAL MODE WITH QUALIFIERS

Event Origin	Caller ID Column	Type Column	Time On/Off Columns	Qualifier Column
Call Events				
Start of incoming private/group/all call	Caller ID or Alias	PC Started AC Started GC Started	Time On = Time Off Time On = Time Off Time On = Time Off	< < Group ID (no aliasing)
Incoming private/group call in progress	Caller ID or Alias	PC In Progress GC In Progress	Time On != Time Off Time Off is displayed when the remote subscriber releases the PTT button	<
Start of outgoing private/group/all call	Console Name	PC Started	Time On = Time Off	> Callee ID or Alias

TABLE 2-2 MOTOTRBO ACTIVITY LOG EVENTS IN DIGITAL MODE WITH QUALIFIERS (CONTINUED)

Event Origin	Caller ID Column	Type Column	Time On/Off Columns	Qualifier Column
		GC Started	Time On = Time Off	> Group ID (no aliasing)
		AC Started	Time On = Time Off	>
Outgoing private/group call in progress	Console Name	PC In Progress	Time On != Time Off	>
		GC In Progress	Time Off is displayed when the console operator releases the PTT button	
Private/group/all call ended	N/A	PC Stopped GC Stopped AC Stopped	Time On = Time Off	N/A
Outgoing private call not acknowledged	N/A	PC Failed	Time On = Time Off	N/A
Call Alert Events				
Incoming call alert received	Caller ID or Alias	CA Received	Time On = Time Off	N/A
Outgoing call alert sent successfully	N/A	CA Sent	Time On = Time Off	Callee ID or Alias
Outgoing call alert sending failed	N/A	CA Failed	Time On = Time Off	Callee ID or Alias
Emergency Events				
Incoming emergency alarm	Caller ID or Alias	Emerg Alarm Acked Emerg Clear Emerg	Time On = Time Off	N/A
Incoming emergency call	Caller ID or Alias	Emerg Alarm Acked Emerg Clear Emerg	Time On = Time Off	N/A

BUTTONS

OK

Click the button to accept the changes, close the dialog box and return to the main window. (To save these changes, choose the Save Configuration command on the Console menu.)

CANCEL

Click the button to cancel changes or any previewed changes, close the dialog box and return to the main window.

PREVIEW

Click the button to see your changes on the main window before accepting them.

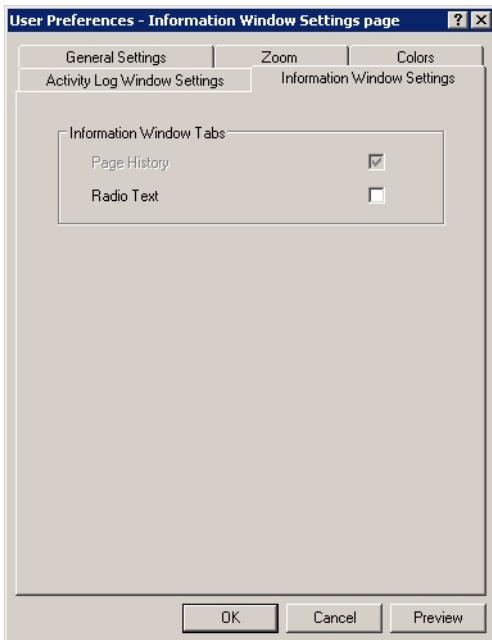
INFORMATION WINDOW SETTINGS**Edit > User Preferences > Information Window Settings**

As a supervisor, you use this tab to configure the display of two tabs on the Information Window:

- **Page History** tab shows a history of all the pages sent from the console.
- **Radio Text** tab displays the text from a MOTOTRBO Radio Channel control that has been received from a MOTOTRBO radio connected to the gateway.

At least one tab must be enabled for the **Information Window**.

FIGURE 2-13 USER PREFERENCES > INFORMATION WINDOW SETTINGS

**BUTTONS****OK**

Click the button to accept the changes, close the dialog box and return to the main window. (To save these changes, choose the Save Configuration command on the Console menu.)

CANCEL

Click the button to cancel changes or any previewed changes, close the dialog box and return to the main window.

PREVIEW

Click the button to see your changes on the main window before accepting them.

SYSTEM SETTINGS COMMAND

This command on the **Edit** menu opens the **System Settings** dialog box where, as a supervisor, you set up various features of the system network, such as grant tone or talk permit tone/paging tone/channel volume, and microphone sensitivity.

See “Adjusting Microphone Automatic Gain Control” on page 1-50, “Performing Audio Tests” on page 1-52, and “Performing Audio Tests” on page 1-52.

SYSTEM SETTINGS DIALOG BOX

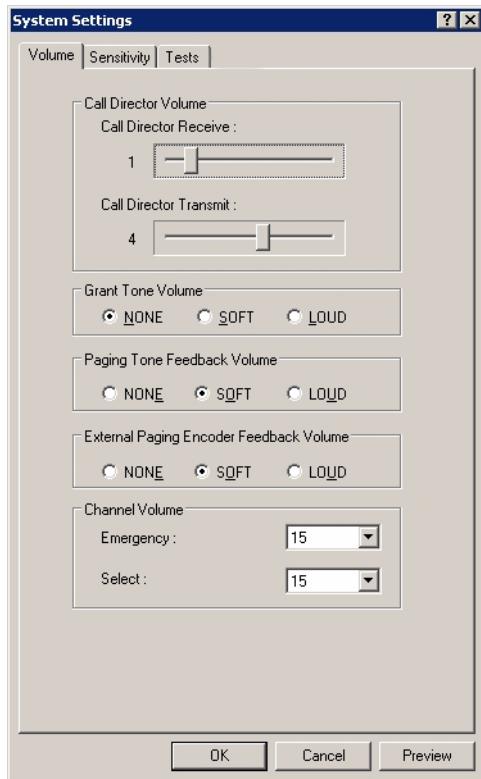
As a supervisor, you use this dialog box to set up and test various features of the system network, such as the volume settings of system sounds.

The **System Settings** dialog box has the following tabs: **Volume**, **Sensitivity**, and **Tests**.

VOLUME

Edit > System Settings > Volume

Use this tab to set the volume for the Call Director receive and transmit volumes, the grant tone/talk permit tone (signifying the base station has secured a radio channel and you are free to transmit), the paging tone feedback (volume of the tones sent during a page that you hear in the headset or on the select speaker) for both internally encoded paging and externally encoded paging and the volume of a channel with an emergency status and when selected.

FIGURE 2-14 SYSTEM SETTINGS > VOLUME

CALL DIRECTOR VOLUME AREA

CALL DIRECTOR RECEIVE

Use the slide control to set the **Call Director Receive** volume. Moving the slider to the right increases the volume, moving it to the left reduces the volume.

CALL DIRECTOR TRANSMIT

Use the slide control to set the **Call Director Transmit** volume. Moving the slider to the right increases the volume, moving it to the left reduces the volume.

GRANT TONE VOLUME AREA

Click one of the following option buttons to set the **Grant Tone Volume**: **NONE**, **SOFT** or **LOUD**. A dot appears beside the selected volume.

PAGING TONE FEEDBACK VOLUME AREA

Click one of the following option buttons under **Internal** to set the feedback volume for internally encoded pages: **NONE**, **SOFT** or **LOUD**. A dot appears beside the selected volume. (These pages are coded internally in the console.)

Click one of the following option buttons under **External** to set the feedback volume for externally encoded pages: **NONE**, **SOFT** or **LOUD**. A dot appears beside the selected volume. These pages are coded by an (external paging encoder.)

CHANNEL VOLUME AREA

EMERGENCY

Click the down arrow and set a different volume for a channel with an emergency from the drop-down list. Typically, it is a higher volume that then drops down to the preset level after you clear the emergency.

SELECT

Click the down arrow and set a different volume for a channel select speaker volume from the drop-down list.

BUTTONS

OK

Click the button to accept the changes, close the dialog box and return to the main window. (To save these changes, choose the **Save Configuration** command on the **Console** menu.)

CANCEL

Click the button to cancel changes, close the dialog box and return to the main window.

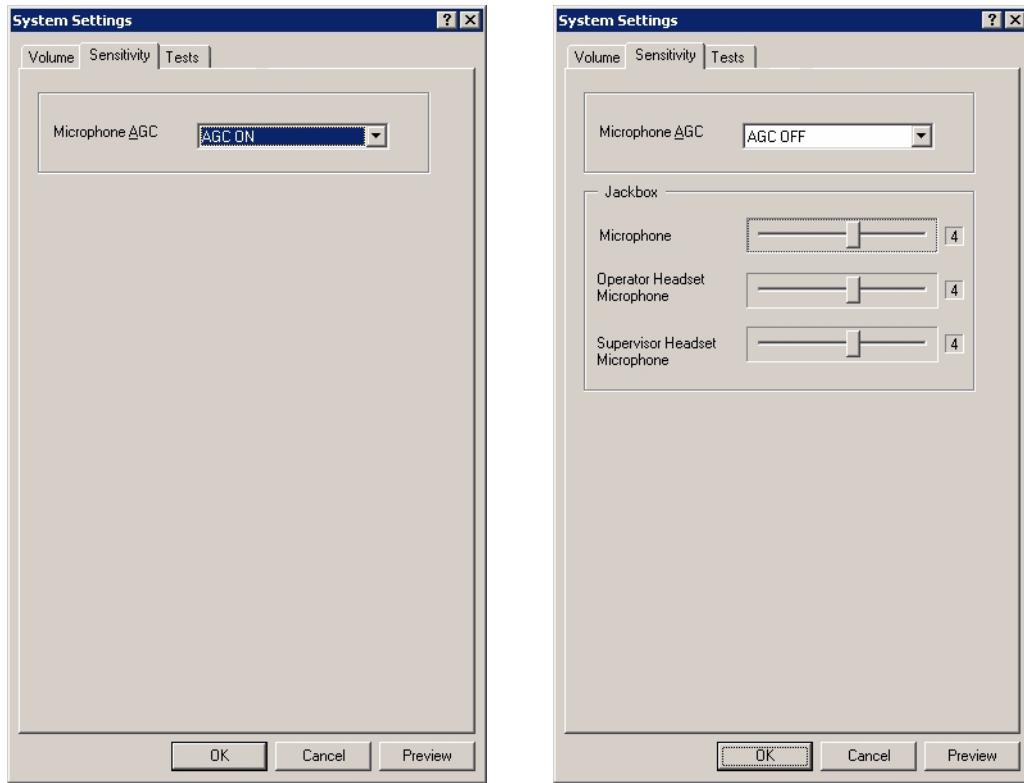
PREVIEW

Click the button to try out your changes before accepting them.

SENSITIVITY

Edit > System Settings > Sensitivity

Use this tab to enable or disable automatic gain control and to change the sensitivity of microphones connected to a USB jackbox. (To adjust the sensitivity of directly connected USB and analog microphones, you must use the Windows operating system. For more information, see the *MIP 5000 VoIP Radio Console Installation and Configuration Manual* (6881013Y35).)

FIGURE 2-15 SYSTEM SETTINGS > SENSITIVITY

MICROPHONE AGC

Click the down arrow and select a value for automatic gain control:

- **AGC ON** — to enable AGC for all microphones
- **AGC IN HEADSET** — to enable AGC for headset microphones only
- **AGC OFF** — to disable AGC for all microphones



NOTE

The AGC must be set to OFF for headsets with noise cancelling capabilities and when the environment is noisy.

AGC works the same for analog microphones and headsets, USB microphones and headsets, and USB jackbox-connected microphones and headsets.

AGC maintains the sound volume at a predefined level, canceling any increase in alarm tone volume through the Escalert feature on MOTOTRBO radios.

JACKBOX AREA

Use the sliders in the **Jackbox** area to adjust the sensitivity of any microphone connected to a USB jackbox.

**NOTE**

The **Jackbox** area only appears when at least one microphone is connected to a USB jackbox. The **Jackbox** area only shows a slider for microphones that are present and configured.

MICROPHONE

Make sure AGC is turned off, then drag the slider to the right to increase or drag to the left to decrease the sensitivity of any desktop microphone (also known as a “deskmic”) connected to a USB jackbox. Turn AGC back on if you turned it off.

OPERATOR HEADSET MICROPHONE

Make sure AGC is turned off, then drag the slider to the right to increase or drag to the left to decrease the sensitivity of an operator headset microphone connected to a USB jackbox. Turn AGC back on if you turned it off.

SUPERVISOR HEADSET MICROPHONE

Make sure AGC is turned off, then drag the slider to the right to increase or drag to the left to decrease the sensitivity of a supervisor headset microphone connected to a USB jackbox. Turn AGC back on if you turned it off.

BUTTONS**OK**

Click the button to accept the changes, close the dialog box and return to the main window. (To save these changes, choose the **Save Configuration** command on the **Console** menu.)

CANCEL

Click the button to cancel changes, close the dialog box and return to the main window.

PREVIEW

Click the button to try out your changes before accepting them.

TESTS

Edit > System Settings > Tests

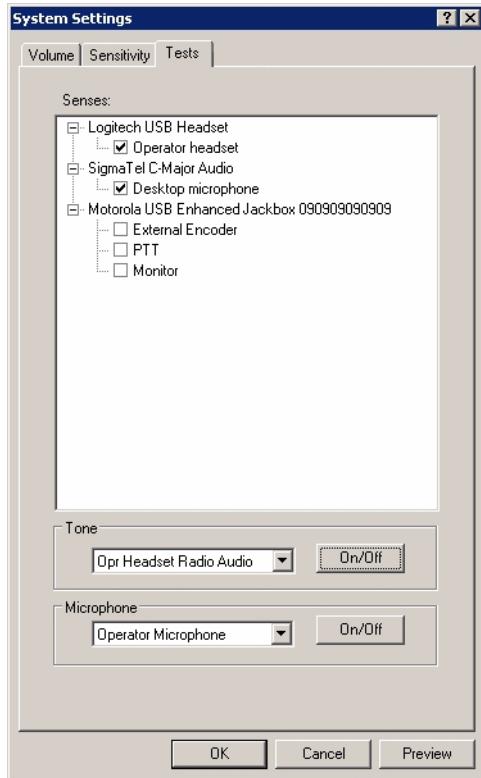
Use this tab to test the console's select and unselect volume, operator and supervisor headset sense, PTT sense, tone (headset, select and unselect audio), microphone (operator, supervisor and desk microphones) and microphone replacement tone when interfacing with another device.



IMPORTANT

The peripheral equipment involved in the these tests must be properly configured before testing begins. See Chapter 4, "Software Installation and Configuration" of *MIP 5000 VoIP Radio Console Installation and Configuration Manual* (6881013Y35) for more information on configuring MIP 5000 peripheral equipment.

FIGURE 2-16 SYSTEM SETTINGS > TESTS



The display identifies the sound card on which each audio device is configured: default sound card, sound card in a USB headset or microphone, or Motorola USB jackbox.

SENSE AREA

OPERATOR HEADSET

Displays the results of the operator headset test. Plug the operator headset into this console and look at the check box. If a check mark is present in the check box the console is sensing the headset. If no check mark is present the console is not sensing the headset.

SUPERVISOR HEADSET

Displays the results of the supervisory headset test. Plug the supervisor headset into this console and look at the check box. If a check mark is present in the check box the console is sensing the headset. If no check mark is present the console is not sensing the headset.

DESKTOP MICROPHONE

Displays the results of the desktop microphone test. Plug the deskset microphone into this console and look at the check box. If a check mark is present in the check box the console is sensing the microphone. If no check mark is present the console is not sensing the microphone.

CALL DIRECTOR JACK

Displays the results of the Call Director jack test. Plug the Call Director jack into the assigned jackbox at this console and look at the check box. If a check mark is present in the check box the console is sensing the Call Director jack. If no check mark is present the console is not sensing the Call Director jack.

CALL DIRECTOR OFF-HOOK

Displays the results of the Call Director off-hook test. Take the Call Director connected to a USB jackbox at this console off hook and look at the check box. If a check mark is present in the check box the console is sensing the Call Director off hook. If no check mark is present the console is not sensing the Call Director off hook.

EXTERNAL ENCODER

Displays the results of the external paging encoder test. Plug the external paging encoder into the assigned jackbox at this console and look at the check box. If a check mark is present in the check box the console is sensing the encoder. If no check mark is present the console is not sensing the encoder.

TONE AREA

Click the down arrow and select the audio you want to test from the drop-down list. Your choices are; Headset audio, Select audio and Unselect audio.

ON/OFF (BUTTON)

Click on the button to enable or disable the test tone in the selected speaker.

MICROPHONE AREA

Click the down arrow and select the microphone you want to test from the drop-down list.



NOTE

A desktop microphone cannot be tested while it is connected to the same jackbox as a headset. Unplug the headset to test the microphone.

ON/OFF (BUTTON)

Click on the button to enable or disable the microphone test.

BUTTONS

OK

Click the button to accept the changes, close the dialog box and return to the main window. (To save these changes, choose the **Save Configuration** command on the **Console** menu.)

CANCEL

Click the button to cancel changes, close the dialog box and return to the main window.

PREVIEW

Click the button to see your changes before accepting them.

SHORTCUTS COMMAND

This command on the **Edit** menu opens the **Shortcut Keys** dialog box where you, as a supervisor, assign single or multiple keystrokes to common functions on the main window.

You can assign shortcuts with single keystrokes or combinations of the Control (CTRL), SHIFT and/or ALT keys, plus 0-9, A-Z (uppercase only), and function keys.



NOTE

The SHIFT, ALT, and CTRL keys must be combined with other keystrokes that you specify under the **Shortcuts** command. It cannot be used alone.

See “Assigning Shortcut Keys” on page 1-6 for more information.

SHORTCUT KEYS DIALOG BOX

Edit > Shortcuts

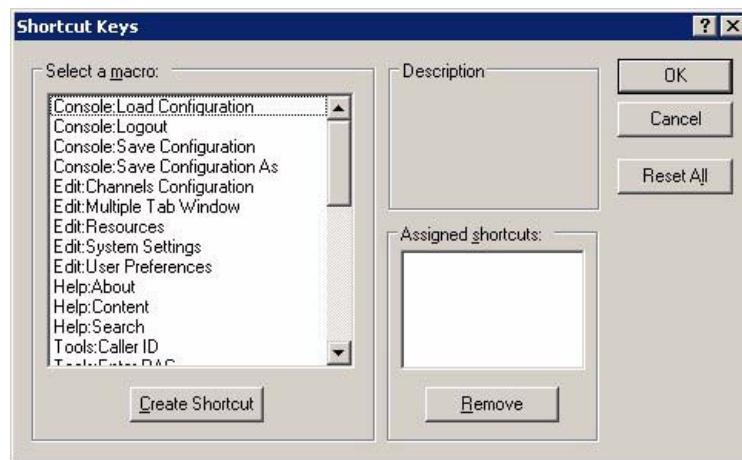
As a supervisor, you use this dialog box to assign single or multiple keystrokes to menu commands. For example, you can assign an F-key to open the **Non Visible Resources** dialog box.

You can assign shortcuts with single keystrokes or combinations of the CTRL, SHIFT and/or ALT keys, plus 0-9, A-Z (uppercase only), and F keys (not with SHIFT alone).

The SHIFT key must be combined with other keystrokes (CTRL and/or ALT). It cannot be used alone.

For deleting a shortcut key, it is the only dialog box. For adding a shortcut key, it is the first dialog box in a series of two dialog boxes with the second being the **Assign Shortcut** dialog box.

FIGURE 2-17 SHORTCUT KEYS DIALOG BOX



SELECT A MACRO LIST

Displays all menu commands in the current configuration. Highlight the desired command in the list before clicking any of this dialog box's five command buttons.

ASSIGNED SHORTCUTS LIST

Displays all shortcut keystroke combinations assigned to the menu command selected in the **Select a macro** list.

More than one shortcut can be assigned to a menu command.

To delete a shortcut key assigned to the selected menu command, highlight the shortcut key in the list before clicking the **Remove** button.

BUTTONS

CREATE SHORTCUT

Click the button to open the **Assign Shortcuts** dialog box where you assign the shortcut key strokes that execute the selected menu command.

REMOVE

Click the button to remove the shortcut key stroke assignment for the selected menu command.

OK

Click the button to save all changes to the shortcut key settings (including adding and removing) and close the dialog box.

CANCEL

Click the button to close the dialog box without assigning a shortcut.

RESET ALL

Click the button to set all menu commands to the system default shortcuts and close the dialog box. A confirmation dialog box appears asking you to confirm your action.

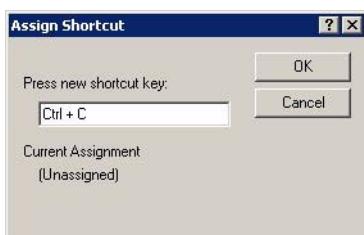
ASSIGN SHORTCUT DIALOG BOX

You use this dialog box to add a shortcut key to a menu command. This dialog box is the second dialog box in a series of two dialog boxes with the first being the “Shortcut Keys Dialog Box” on page 2-29.

ACCESS

Click on the **Edit** menu, select the **Shortcut** command and in the **Shortcut Keys** dialog box click the **Create Shortcut** button.

FIGURE 2-18 ASSIGN SHORTCUT DIALOG BOX



PRESS NEW SHORTCUT KEY

To add a shortcut key to the menu command selected in the Shortcut Keys dialog box (Select a macro list), enter the new shortcut key sequence in the text box before clicking the **OK** button.

BUTTONS

OK

Click the button to save the shortcut key, close the dialog box and return to the **Shortcut Keys** dialog box.

CANCEL

Click the button to close the dialog box and return to the **Shortcut Keys** dialog box without adding a shortcut key.

CHANNELS CONFIGURATION COMMAND

This command on the **Edit** menu opens the **Channels Configuration** dialog box where you, as a supervisor, configure Radio Channel Controls on an individual basis. The configurable features are different commands, aliases and visible indicators for the associated console's radio channel (available on the shortcut menu).

CHANNELS CONFIGURATION DIALOG BOX

Edit > Channels Configuration

The **Channels Configuration** dialog box has the following three tabs: **Controls**, **Aliases** and **Indicators**.

On the **Controls** tab, there is a button for re-establishing communication with a mobile radio channel, which is described in “Reconnecting with the Radio” on page 1-45.



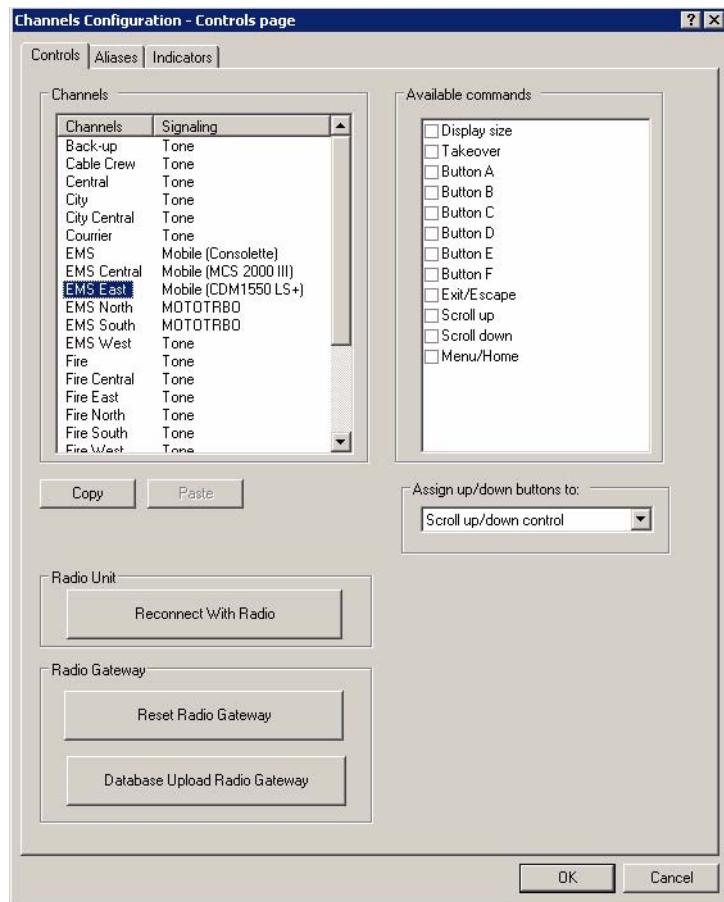
NOTE

Deleting a Radio Channel control at the CSDM affects the configuration at the console.

CONTROLS

Edit > Channels Configuration > Controls

As a supervisor, you use this tab to enable commands such as **Scroll up** and **Scroll down** to appear on the channel shortcut menu for specified Radio Channel Controls. Commands that are enabled appear on the shortcut menu when you click the channel state indicator area on the Radio Channel Control or press SHIFT + F10. You can also configure the Radio Channel Control **Up/Down** buttons for various purposes. You can configure the Radio Channel Control size on the shortcut menu.

FIGURE 2-19 CHANNELS CONFIGURATION > CONTROLS

CHANNELS LIST

Displays all available Radio Channel Controls (each connected to and controlling the radio channels of a base station). Highlight a name in the list before setting the commands you wish to assign or delete in the **Available Commands** list.

AVAILABLE COMMANDS LIST

Check the check box for each control/command you want to enable from the list for the Radio Channel Control selected in the **Channels** list. When a command is enabled to appear in the shortcut menu, a check mark appears in the check box. To disable a command, clear the check box.

Only the features available to the selected channel appear in the **Available Commands** list (as programmed in the CSDM). Therefore, depending on the channel configuration, all of the features might not be available.

The available commands are listed with their associated channel types:

TABLE 2-3 AVAILABLE COMMANDS BY CHANNEL TYPE

Analog Channel Commands	Mobile Channel Commands	MOTOTRBO Channel Commands
Display Size	Display Size	Display Size
Frequency	Takeover	OK
Private Line	<ul style="list-style-type: none"> Buttons A-R (Consolette) Buttons A-I (MCS 2000 III) Buttons A-F (CDM 1550 LS+) 	Menu
Encryption Mode	Select	Back/Home
Repeat Disable	Scroll up	Left
Takeover (Parallel Unit)	Scroll down	Right
<ul style="list-style-type: none"> Wildcard 1 Wildcard 2 	Menu/Home	CH-
Mute R2	Exit/Escape	CH+
		P1 to P4 Front Buttons
		<ul style="list-style-type: none"> Mic No-Dot Mic 1-Dot Mic 2-Dot

ASSIGN UP/DOWN BUTTONS TO

Click the down arrow and select the option that you want to control with **Up/Down** buttons from the drop-down list (as programmed in the CSDM). Some options depend on signaling type while others are always present:

- No up/down buttons (analog, mobile, MOTOTRBO)
- Volume control (analog, mobile, MOTOTRBO)
- Frequency control (analog)
- Private line control (analog)
- Scroll up/down control (mobile)
- Channel up/down control (MOTOTRBO)

The symbol on the **Up/Down** buttons change to reflect their assigned function.

BUTTONS

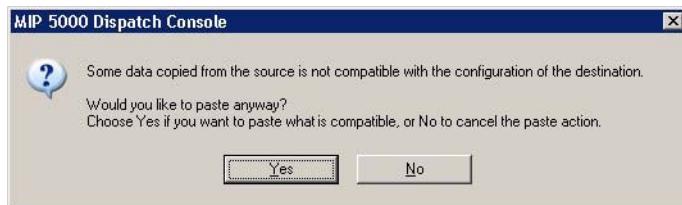
COPY AND PASTE

If the commands in two or more radio channel controls are the same signaling type and the same mobile type (including the up/down button feature), use the **Copy** and **Paste** buttons to replicate the controls across multiple channels.

Select the radio channel control with the controls you want to copy. Click the **Copy** button. The text message “Copy from: Channel x” appears below the **Copy** button.

Select the radio channel control to which you want to copy the controls. Click the **Paste** button. The system copies the controls to the new radio channel control.

If you try to paste data from one type of radio channel to a different, slightly incompatible radio channel, the following warning is displayed:



You can copy and paste data between the following types of radio channels:

- From one locally controlled channel to another
- From one tone-controlled channel to another (signaling types: None, Tone)
- From one Consolette channel to another (signaling type: Mobile)
- From one MCS 2000 III channel to another (signaling type: Mobile)
- From one CDM1550 LS+ channel to another (signaling type: Mobile)
- From one MOTOTRBO™ channel to another (signaling type: MOTOTRBO)

If you try to copy and paste data between any other combination of channels, the action fails and the following warning is displayed:



RECONNECT WITH RADIO

This button becomes available when a mobile radio channel is selected. Click the button to re-establish a connection with the mobile radio giving access to the channel.

RESET RADIO

This button becomes available when a MOTOTRBO radio channel is selected. Click the button to reset the radio independent of gateway. Resetting the radio forces it to stop and restart.



NOTE

The **Reset Radio** button is called **Reconnect With Radio** in Tone and Mobile Radio Channel controls.

RESET RADIO GATEWAY

This button becomes available when any radio channel is selected. Click the button to reset the MIP 5000 Gateway associated with the selected radio channel. Resetting the gateway forces it to stop and restart, using a new configuration database if one has been generated at the CSDM.

DATABASE UPLOAD RADIO GATEWAY

This button becomes available when any radio channel is selected. Click the button to have the MIP 5000 Gateway associated with the selected radio channel upload a new configuration database without resetting.

ABOUT THE COPY AND PASTE BUTTONS

If the commands in two or more Radio Channel Controls are the same or similar (including the up/down button feature), use the **Copy** and **Paste** buttons to replicate the controls across multiple channels.

OK

Click the button to accept the changes, close the dialog box and return to the main window. (To save these changes, choose the **Save Configuration** command from the **Console** menu.) The affected Radio Channel controls reflect the changes.

CANCEL

Click the button to cancel any changes, close the dialog box and return to the main window.

ALIASES

Edit > Channels Configuration > Aliases

As a supervisor, you use this tab to change names of certain radio channel resources: frequency, buttons, and indicators. You can change the 16 frequency names that are available for all frequencies (radio channels) of each multi-frequency Radio Channel control.

Buttons (Commands) and **Indicators** options are available for mobile and MOTOTRBO radio channel buttons and indicators, so that you can name the available mobile and MOTOTRBO buttons and indicators for that Radio Channel control. The items available depend on the signaling type (mobile or MOTOTRBO) and type of mobile radio (MCS2000 III and Consolette W9 indicator aliases are configurable) and configuration of the radio connected to the particular console audio channel represented by the Radio Channel control.



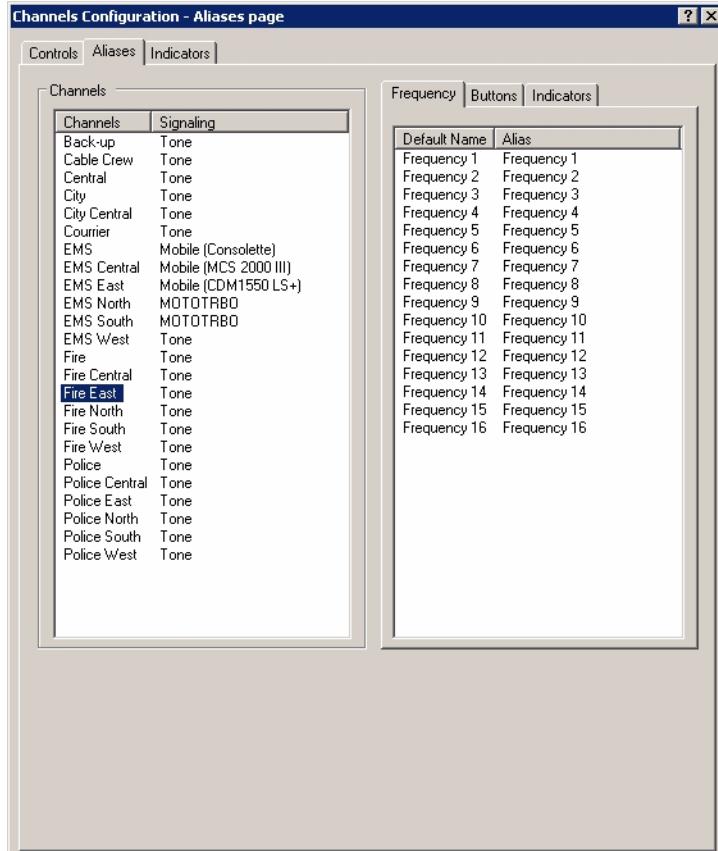
NOTE

You set the number and combination of frequencies available at the CSDM. This configuration depends on the configuration of the radio connected to the console's audio port that this Radio Channel control represents.

CHANNELS LIST

Displays all available Radio Channel controls (each connected to and controlling the radio channels of one radio). Highlight a name in the list before setting the alias for each available frequency in the **Frequency** sub-tab list (for analog Radio Channel controls), command in the **Buttons** sub-tab list or indicator in the **Indicators** sub-tab list (for all mobile Radio Channel controls except the CDM 1550 LS+), or command in the **Buttons** sub-tab list for MOTOTRBO radios.

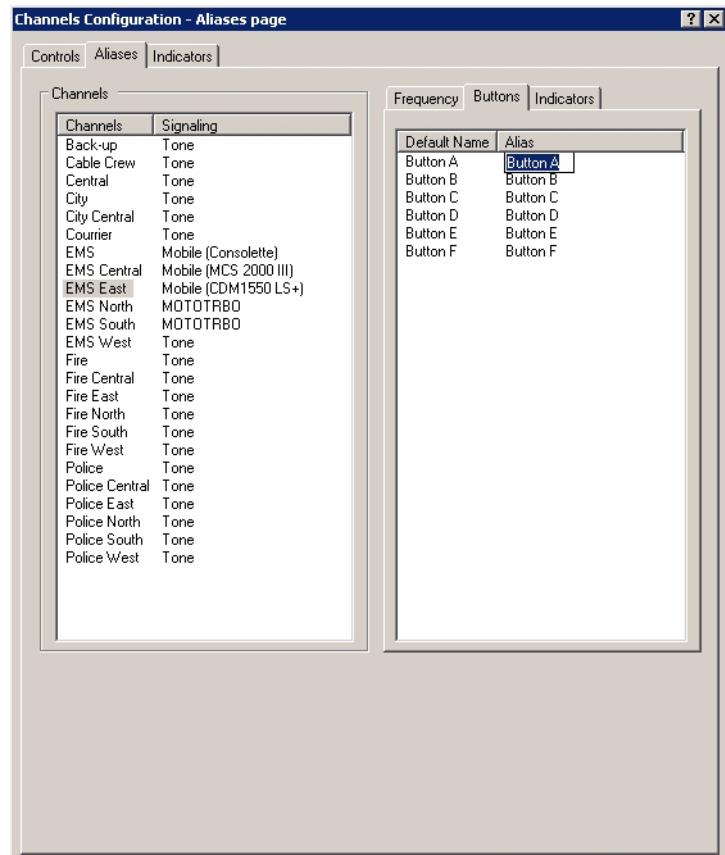
FIGURE 2-20 CHANNELS CONFIGURATION > ALIASES > FREQUENCY



FREQUENCY SUB-TAB

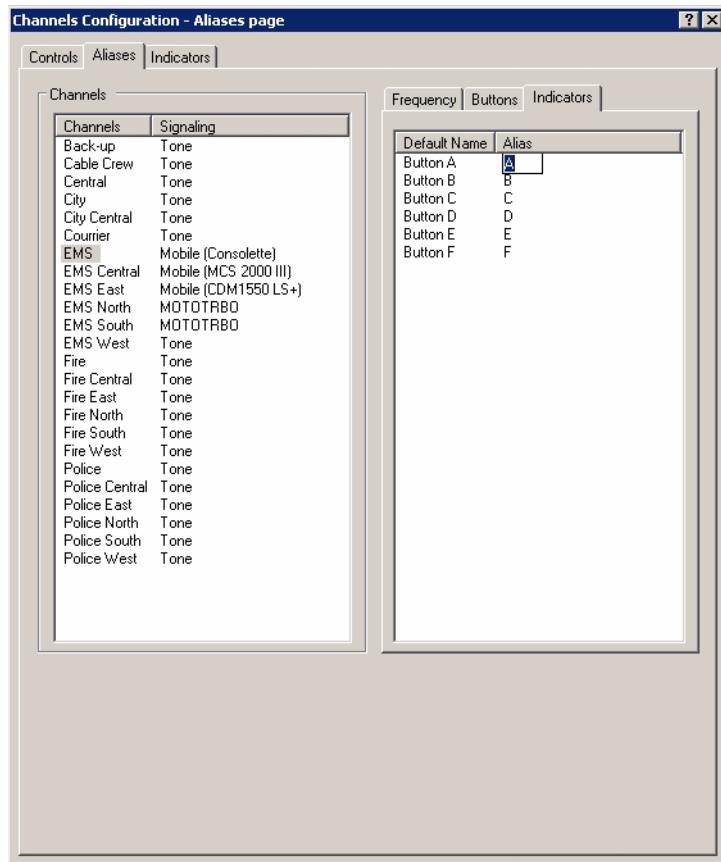
Displays the current frequency default name and alias for each available frequency or frequency pair of the Radio Channel control selected in the **Channels** list. Highlight the desired frequency name and type a new name in the **Aliases** column.

FIGURE 2-21 CHANNELS CONFIGURATION > ALIASES > BUTTONS

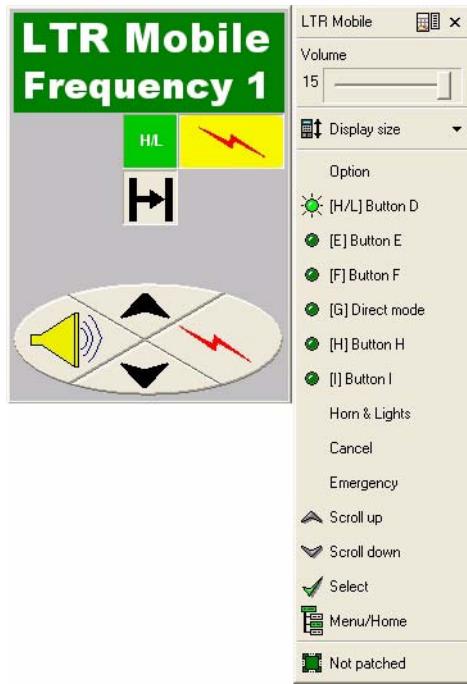


BUTTONS SUB-TAB

Displays the current command default name and alias for each available command of the Radio Channel Control selected in the **Channels** list. Highlight the desired command name and type a new name in the **Aliases** column.

FIGURE 2-22 CHANNELS CONFIGURATION > ALIASES > INDICATORS**INDICATORS SUB-TAB**

Displays the current indicator default name and alias for each available indicator of the Radio Channel Control selected in the **Channels** list. Highlight the desired command name and type a new name in the **Aliases** column.

FIGURE 2-23 MOBILE RADIO CONTROL AND MENU SHOWING INDICATOR ALIAS

INDICATORS

Edit > Channels Configuration > Indicators

As a supervisor, you use this tab to decide on the indicators that appear in the Radio Channel Control. The **Call** and **Transmit** indicators are always present but you can choose the other indicators that you want to display.

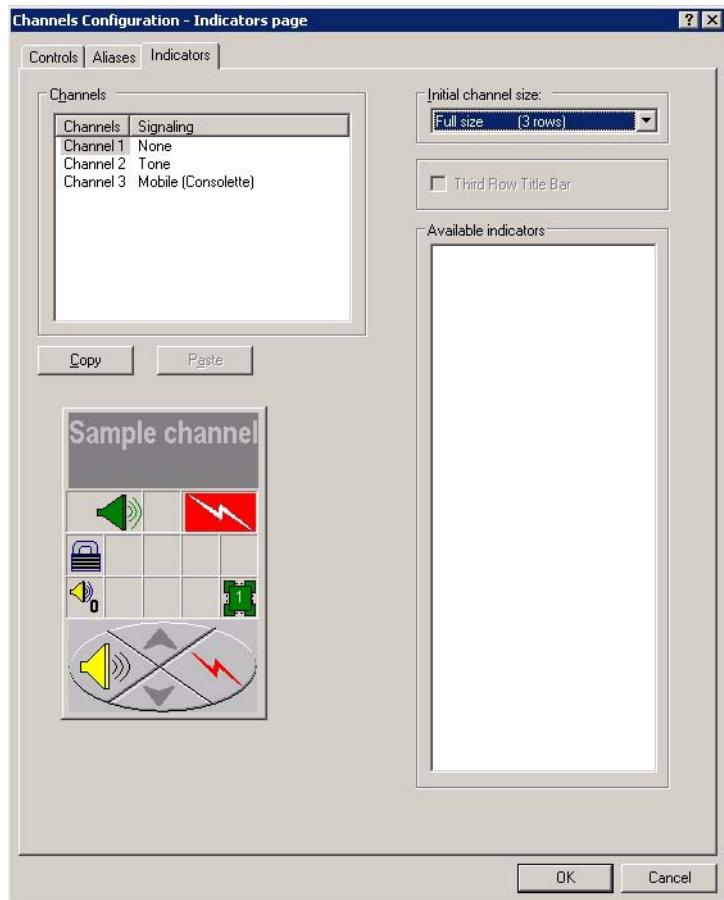
FIGURE 2-24 CHANNELS CONFIGURATION > INDICATORS (ANALOG CHANNEL)

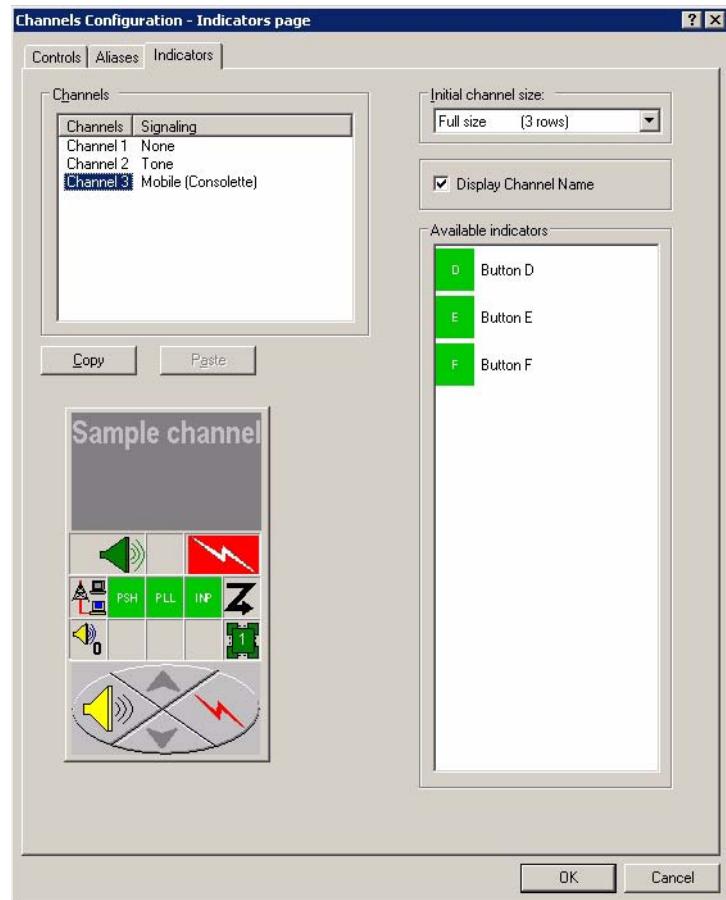
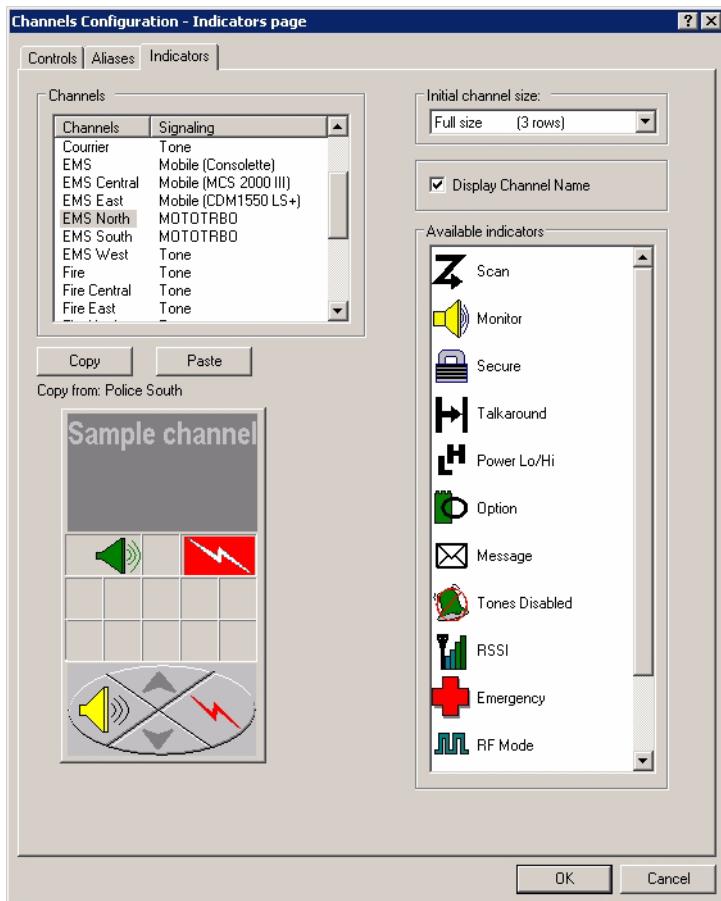
FIGURE 2-25 CHANNELS CONFIGURATION > INDICATORS (MOBILE CHANNEL)

FIGURE 2-26 CHANNELS CONFIGURATION > INDICATORS (MOTOTRBO CHANNEL)

CHANNELS LIST

Displays all available Radio Channel controls that the console has access to. Highlight a name in the list before setting the indicators that appear on the Radio Channel control.

INITIAL CHANNEL SIZE

Displays the current size of the Radio Channel control selected in the **Channels** list. Click the down arrow and choose another size of the Radio Channel control display from the drop-down list. Your choices are:

- Small size (1 row) contains 1 blank indicator space
- Medium size (2 rows) contains 6 blank indicator spaces.
- Full size (3 rows) contains 11 blank indicator spaces.

The Sample Channel changes to reflect your choice.

DISPLAY CHANNEL NAME (MOBILE RADIO AND MOTOTRBO CHANNELS ONLY)

Check the check box to enable a third row in the radio channel control title bar to display the channel name. Clear the check box to disable a third row to display the channel name. If enabled, the channel name appears in the top row.

AVAILABLE INDICATORS LIST

Drag and drop your selection onto the **Sample Channel** (displayed below the **Copy** and **Paste** buttons). The selection is removed from the list. To disable an indicator, drag the indicator back to the **Available Indicators List**.

The available indicators for analog, mobile, and MOTOTRBO radios are:

TABLE 2-4 RADIO CHANNEL CONTROL INDICATORS BY CHANNEL TYPE

Analog channels	Mobile channels ¹	MOTOTRBO channels
Encryption Mode	Buttons A-R: • Consolette—A-F • MCS 2000 III—D-I	Emergency
Frequency	Companding	Lo/High Power
Mute R2	Lo/High Power	Message
Patch	Monitor	Monitor
Private Line	Option	Option
Repeat Disable	Patch	Patch
Takeover (Parallel unit)	Scan: • Priority 1 • Priority 2	RF Mode
Wildcard 1	Secure	RSSI
Wildcard 2	Takeover	Scan
Volume Level	Talkaround Volume Level	Secure Talkaround
		Tones Disabled
		Volume Level

1. Availability of indicators depends on mobile model.

BUTTONS

ABOUT THE COPY AND PASTE BUTTONS

If the commands in two or more Radio Channel Controls are the same or similar (including the up/down button feature), use the **Copy** and **Paste** buttons to replicate the controls across multiple channels.

COPY

Select the Radio Channel Control with the controls you want to copy. Click the **Copy** button. The text message “Copy from: Channel x” appears below the **Copy** button.

PASTE

Select the Radio Channel Control to which you want to copy the controls. Click the **Paste** button. The system copies the controls to the new Radio Channel Control.

OK

Click the button to accept the changes, close the dialog box and return to the main window. (To save these changes, choose the **Save Configuration** command from the **Console** menu.) The affected Radio Channel Controls reflect the changes.

CANCEL

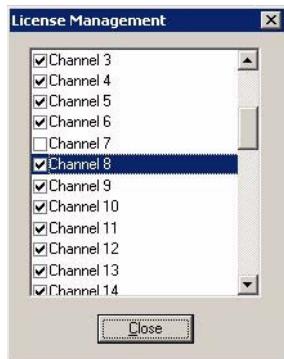
Click the button to cancel any changes, close the dialog box and return to the main window.

LICENSING COMMAND

This command on the **Edit** menu opens the **License Management** dialog box where you, as a supervisor, select the channels that are available at this console. Licenses are available for one (1), four (4), eight (8), 12, and 24 channels. The HASP key plugged into this computer identifies which type of license applies and how many channels can be accessed from this console according to that license.

The **License Management** dialog box allows you to select, from all channels on the network, which one, four, eight, 12, or 24 channels can be used at this console according to how it was licensed. If the license is for one channel, then only one channel can be selected for use at this console. If the license is for four channels, then only four channels can be selected and so on. This dialog box allows you to choose which channels those will be.

FIGURE 2-27 LICENSE MANAGEMENT DIALOG BOX



VIEW MENU

The **View** menu provides you with a list of the available windows you can activate, offers a means of rearranging resources that cannot be seen on any window and lets you focus the system on specific windows.

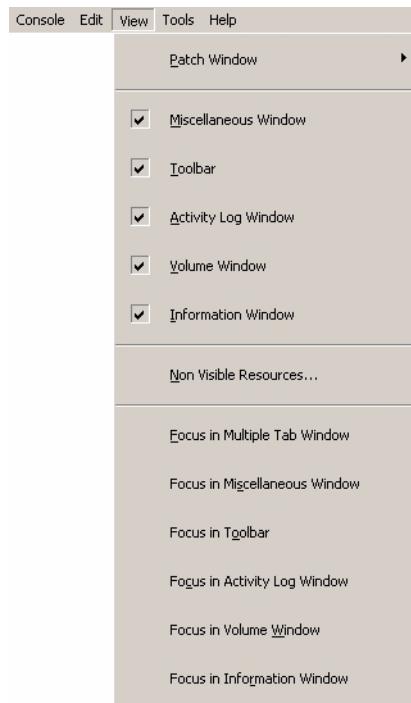
The viewable windows are Patch window, Miscellaneous window, Toolbar, Activity Log window, Volume window, and Information window.

The focusable windows are Multiple Tab window, Miscellaneous window, Toolbar, Activity Log window and Information window.

The **Non-Visible Resources** command lets you view the resources that might not be visible on a certain window or tab. As a supervisor, you can cause these non-visible resources to rearrange themselves so that they become visible on the console.

The **View** menu contains the following commands:

- “Patch Window Command” (see operator manual)
- “Miscellaneous Window Command” on page 2-46
- “Toolbar Command” on page 2-47
- “Activity Log Window Command” on page 2-47
- “Information Window Command” on page 2-48
- “Volume Window Command” on page 2-48
- “Non-Visible Resources Command” on page 2-48
- “Focus in Multiple Tab Window Command” (see operator manual)
- “Focus in Miscellaneous Window Command” (see operator manual)
- “Focus in Toolbar Command” (see operator manual)
- “Focus in Activity Log Window Command” (see operator manual)
- “Focus in Volume Window Command” (see operator manual)
- “Focus in Information Window Command” (see operator manual)

FIGURE 2-28 VIEW MENU

PATCH WINDOW COMMAND

For information on the **Patch Window** command, see the *MIP 5000 VoIP Radio Console Operator Manual* (6881013Y34).

MISCELLANEOUS WINDOW COMMAND

Use this command when configuring the layout of the console main window to make the Miscellaneous window appear or disappear. Once the window is visible, you can dock it alongside or between other windows, or leave it floating over the other windows. See “Customizing the Main Window” on page 1-6 for information about positioning the window on the screen.

This window allows the Radio Channel control and/or function buttons to be viewed at all times.

As a supervisor, it is your responsibility to assign resources to this window. See “Adding a New Button or Control” on page 1-13 for the method to assign resources to this window.

A check box beside this command on the **View** menu indicates that the Miscellaneous window is currently open within the main window. Clear the check box to close the window.

TOOLBAR COMMAND

Use this command when configuring the layout of the console main window to make the Toolbar appear or disappear. Once the Toolbar is visible, you can dock it alongside or between other windows, or leave it floating over the other windows. See “Customizing the Main Window” on page 1-6 for information about positioning the Toolbar on the main window.

The Toolbar contains buttons that perform specific functions for the MIP 5000 VoIP Radio Console program, such as muting all channels.

As a supervisor, it is your responsibility to assign resources to the Toolbar. See “Adding a New Button or Control” on page 1-13 for the method to assign resources to the Toolbar.

A check box beside this command on the **View** menu indicates that the Toolbar is currently open within the main window. Clear the check box to close the Toolbar.

ACTIVITY LOG WINDOW COMMAND

Use this command when configuring the layout of the console main window to make the Activity Log window appear or disappear. Once the window is visible, you can dock it alongside or between other windows, or leave it floating over the other windows. See “Customizing the Main Window” on page 1-6 for information about positioning the window on the main window.

The Activity Log window lists all of the radio activity on the console. It also lets you quickly re-establish communications with previous callers by selecting the entry and pressing the **Instant Transmit** button. This is the window where you respond to emergency radio calls (silence the alarm, acknowledge the call and clear the emergency).

Multiple tabs within the Activity Log window allow calls to be filtered by channel selection and emergency.

As a supervisor, it is your responsibility to configure what appears in the Activity Log window. For more information about configuring this window, see “Setting Activity Log Window Features” on page 1-21.

A check box beside this command on the **View** menu indicates that the Activity Log window is currently open within the main window. Clear the check box to close the window.

INFORMATION WINDOW COMMAND

Use this command when configuring the layout of the console main window to make the Information window appear or disappear. Once the window is visible, you can dock it alongside or between other windows, or leave it floating over the other windows. See “Customizing the Main Window” on page 1-6 for information about positioning the window on the main window.

The Information window can have up to two sub-windows:

- Page History shows all of the pages that were sent from this console
- Radio Text displays the text from the control head of a MOTOTRBO radio whose Radio Channel control has been dragged and dropped in the Radio Text tab

A check box beside this command on the **View** menu indicates that the Information window is currently open within the main window. Clear the check box to close the window.

VOLUME WINDOW COMMAND

Use this command when configuring the layout of the console main window to make the Volume window appear or disappear. Once the window is visible, you can dock it alongside or between other windows, or leave it floating over the other windows. See “Customizing the Main Window” on page 1-6 for information about positioning the window on the main window.

A check box beside this command on the **View** menu indicates that the Volume window is currently open within the main window. Clear the check box to close the window.

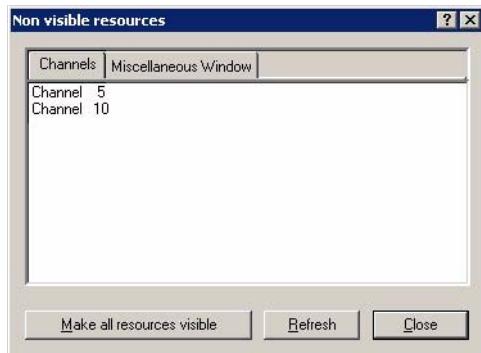
NON-VISIBLE RESOURCES COMMAND

It is possible, by rearranging the resources on the screen (including buttons in the Toolbar) or by using the **Zoom** feature, to end up with resource objects that are not visible and, therefore, cannot be accessed. This command on the **View** menu opens the **Non-Visible Resources** dialog box where you can see which resources are not visible and move them back into viewable range. See “Viewing Non-Visible Resources” on page 1-24 for more information.

NON-VISIBLE RESOURCES DIALOG BOX

View > Non-Visible Resources

As a supervisor, you can use this dialog box to view resources, that are currently in a part of the Multiple Tab window or Miscellaneous window but are outside the boundaries of the main window, and bring the resources back into viewable range.

FIGURE 2-29 NON-VISIBLE RESOURCES DIALOG BOX**[NAME] TAB (S)**

Displays the currently non visible buttons or controls for a tab in the Multiple Tab window. This column is repeated for each tab in the Multiple Tab window that has non-visible resources.

MISCELLANEOUS WINDOW TAB

Displays the currently non-visible buttons or controls in the Miscellaneous window.

BUTTONS**MAKE ALL RESOURCES VISIBLE**

Click the button to make all non visible resources viewable within the boundaries of the main window and close the dialog box.

REFRESH

Click the button to refresh the list of non visible resources after making another intervention (such as adding or removing resources or changing the zoom level).

CLOSE

Click the button to close the dialog box and return to the main window.

FOCUS IN MULTIPLE TAB WINDOW COMMAND

For information on the **Focus in Multiple Tab Window** command, see the *MIP 5000 VoIP Radio Console Operator Manual* (6881013Y34).

FOCUS IN MISCELLANEOUS WINDOW COMMAND

For information on the **Focus in Miscellaneous Window** command, see the *MIP 5000 VoIP Radio Console Operator Manual* (6881013Y34).

FOCUS IN TOOLBAR COMMAND

For information on the **Focus in Toolbar** command, see the *MIP 5000 VoIP Radio Console Operator Manual* (6881013Y34).

FOCUS IN ACTIVITY LOG WINDOW COMMAND

For information on the **Focus in Patch Window** command, see the *MIP 5000 VoIP Radio Console Operator Manual* (6881013Y34).

FOCUS IN INFORMATION WINDOW COMMAND

For information on the **Focus in Information Window** command, see the *MIP 5000 VoIP Radio Console Operator Manual* (6881013Y34).

FOCUS IN VOLUME WINDOW COMMAND

For information on the **Focus in Volume Window** command, see the *MIP 5000 VoIP Radio Console Operator Manual* (6881013Y34).

TOOLS MENU

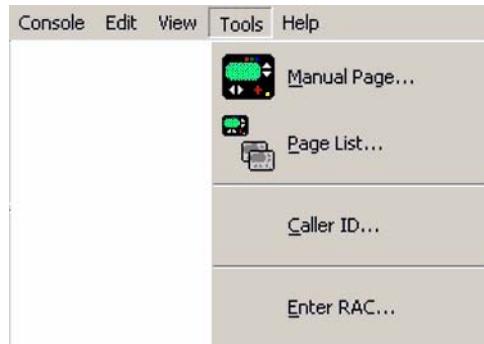
The **Tools** menu accesses the tools that help you on your console, such as, immediate access to the **Manual Page**, **Page List**, **Caller ID**, plus **Enable/Disable** features and **Enter RAC**. Some of these features are accessible only by a supervisor.

The **Tools** menu contains the following commands:

- “Manual Page Command” (see operator manual)
- “Page List Command” on page 2-51

- “Caller ID Command” on page 2-66
- “Enter RAC Command” (see operator manual)

FIGURE 2-30 TOOLS MENU



MANUAL PAGE COMMAND

For information on the **Manual Page** command, see the *MIP 5000 VoIP Radio Console Operator Manual* (6881013Y34).

PAGE LIST COMMAND

This command on the Tools menu opens the **Paging Facility** dialog box where operators can send pre-programmed paging and signaling tones over all selected radio channels to programmed paging groups. As a supervisor, you use the **Paging Facility** dialog box to define page lists.

FIGURE 2-31 PAGE LIST BUTTON



For more information about adding and managing pre-programmed Page Lists, see “Maintaining Page List Data” on page 1-58.

PAGING FACILITY DIALOG BOX

Tools > Page List

An operator uses this dialog box to page a predetermined list (stack) of pagers. Paging types include generic (using any tone sequence), customized or pre-programmed, as well as group pages.

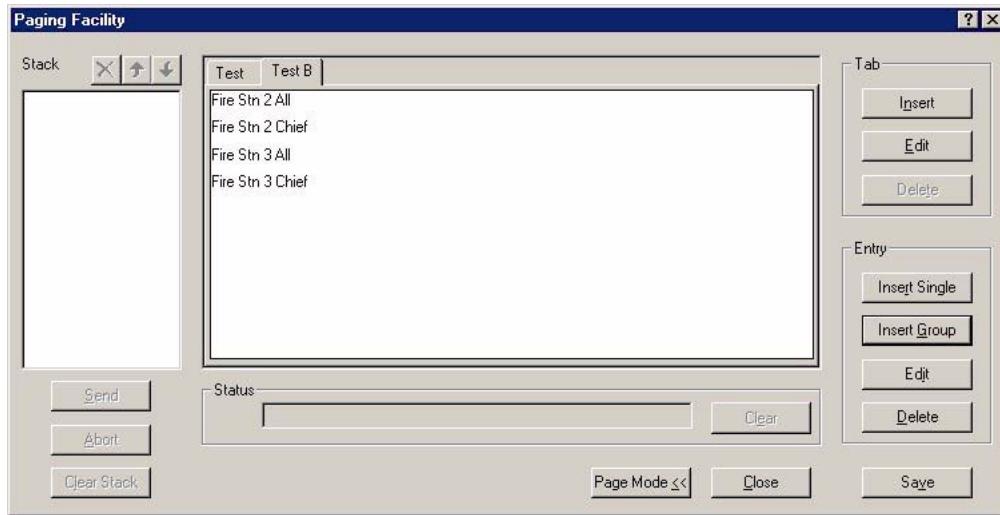
As a supervisor, you use this dialog box in Edit Mode to associate the radio channels, paging types and codes with each participant or group in the lists. These lists of participants (individuals or agencies) and groups can be partitioned on separate tabs. These participants and groups can be created, modified and deleted.

You select which of the formats customized at the CSDM are to be used in each page. The paging format is set at the CSDM before the paging list is prepared.

In Edit Mode, this dialog box is the first in a series of two dialog boxes. The selections you make on the first dialog box control which one of the following is the second:

- “Insert Page List Entry Dialog Box” on page 2-55
- “Edit Page List Entry Dialog Box” on page 2-57
- “Insert Group Page Dialog Box” on page 2-60
- “Edit Page List Group Dialog Box” on page 2-62
- “Insert Page List Tab Dialog Box” on page 2-64
- “Edit Page List Tab Dialog Box” on page 2-65

FIGURE 2-32 PAGING FACILITY DIALOG BOX IN EDIT MODE



STACK AREA

STACK LIST

Displays the participants/groups who are paged when you click the **Send** button. You customize this list by choosing the participants/groups from the **Page List** tabs.

STACK AREA BUTTONS

STACK DELETE

Click the button to delete the highlighted participant/group in the Stack list.

STACK DOWN

Click the button to move the highlighted participant/group down one position in the Stack list.

STACK UP

Click the button to move the highlighted participant/group up one position in the Stack list.

SEND

Click the button to send the page. The **Transmit** indicator appears on the selected Radio Channel Control(s) and a text message appears in the **Status** area.

When the **Transmit** indicator on the Radio Channel Control disappears or, if configured, a green **Talkdown** indicator appears on the **Man Page** button, you can send a voice message:

Click the **Common Transmit** button or press the PTT button or footswitch and speak into your headset or microphone. To end the voice message, release the **Common Transmit** button or the PTT button or the footswitch.

ABORT

Click the button to cancel this page and remain in the **Paging Facility** dialog box.

CLEAR STACK

Click the button to remove all participants in the **Stack** list.

PAGE LIST AREA (RIGHT OF STACK AREA, NO LABEL)

PAGE LIST TABS

Displays all available participants/groups in the tabbed group. The participants/groups are customizable when in Edit Mode. Highlight participants/groups you wish to put in the **Stack** list. The highlighted participants/groups automatically appear in the **Stack** list.

STATUS AREA

STATUS

Displays a text message about the status of the page.

STATUS AREA BUTTONS

CLEAR

Click the button to clear the **Status** text box.

BUTTONS

EDIT MODE (PAGE MODE ONLY)

Click the button to bring up the Edit Mode features for this dialog box (**Tab** area, **Entry** area and **Save** button). This button is visible only when configuration changes are allowed. (When in Edit Mode, this button changes to **Page Mode**.)

PAGE MODE (EDIT MODE ONLY)

Click this button to close the Edit Mode features of the dialog box. If you want to save the changes you've made, ensure you press the **Save** button before clicking this button. (When in Page Mode, this button changes to **Edit Mode**.)

CLOSE

Click the button to close the **Paging Facility** dialog box.

SAVE (EDIT MODE ONLY)

Click this button to save all the tab and entry changes before clicking the **Page Mode** button.

TAB AREA BUTTONS (EDIT MODE ONLY)

INSERT

Click this button to open the **Insert Page List Tab** dialog box and add a tab. The new tab appears to the right of the current tab.

EDIT

Click this button to open the **Edit Page List Tab** dialog box and edit the current tab title.

DELETE

Click this button to open a dialog box and delete the current tab.

ENTRY AREA BUTTONS (EDIT MODE ONLY)

INSERT SINGLE

Click this button to open the **Insert Page List Entry** dialog box and add a new single entry. The new entry appears in the current **Page List** tab.

INSERT GROUP

Click this button to open the **Insert Group Page** dialog box and add a new group entry. The new group entry appears in the current **Page List** tab.

EDIT

Highlight the single entry you wish to edit in the **Paging List** tab, then click this button to open the **Edit Page List Entry** dialog box and edit the entry. Or, highlight the group you wish to edit in the **Paging List** tab, then click this button to open the **Edit Page List Group Entry** dialog box and edit the entry.

DELETE

Highlight the entry you wish to edit in the **Paging List** tab, then click this button to delete the entry. A confirmation dialog box appears to confirm your decision.

INSERT PAGE LIST ENTRY DIALOG BOX

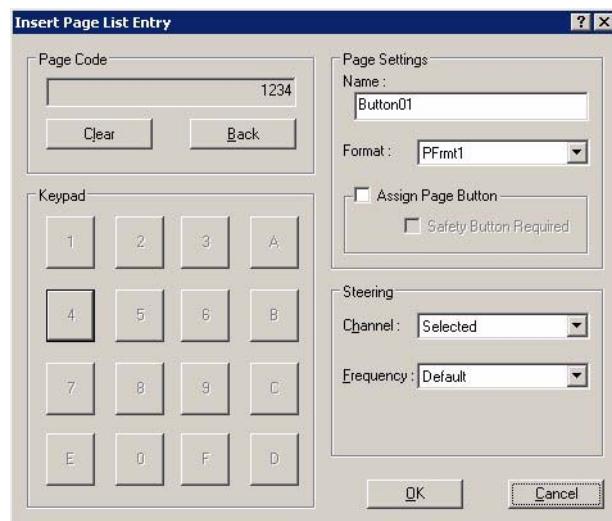
As a supervisor, you use this dialog box to add entries in the selected **Page List** tab of the **Paging Facility** dialog box.

This is the second dialog box in a series of two dialog boxes with the first being the **Paging Facility** dialog box.

ACCESS

Click the **Page List** function button on the **Toolbar** or select the **Page List** command from the **Tools** menu. In the **Paging Facility** dialog box, click the **Edit Mode** button and then in the **Entry** area, click the **Insert Single** button.

FIGURE 2-33 INSERT PAGE LIST ENTRY DIALOG BOX



PAGE CODE AREA

PAGE CODE

Displays the paging code or tone sequence of the entry as you enter digits with the keypad.

PAGE CODE AREA BUTTONS

CLEAR

Click the button to clear the entire **Page Code** text box.

BACK

Click the button to clear the last entered character in the **Page Code** text box.

KEYPAD AREA

KEYPAD

Select the appropriate paging format from the **Format** list before entering the paging code or tone sequence for the entry's pager. The numbers you enter appear in the **Page Code** text box.

PAGE SETTINGS AREA

NAME

Type the new entry name in the text box. Once you click the **OK** button the entry is listed in the current **Paging List** tab of the **Paging Facility** dialog box.

FORMAT

To change the paging format, click the down arrow and select the paging format from the list. The paging types are configurable.

ASSIGN PAGE BUTTON

Select this check box to create a page button for this page list entry.

SAFETY BUTTON REQUIRED

Select this check box to require that a safety button be used with the page button for this entry.

STEERING AREA

CHANNEL

Displays the available Radio Channel Controls in the system. To change, click the down arrow and select the Radio Channel Control containing the radio channel you wish to page on from the drop-down list.

The number of Radio Channel Controls available depends on your system set-up. The last choice in the list is *Selected*. Choosing this option steers the page to all the Radio Channel Controls that are selected at the console. In this case, the **Frequency** scroll list is forced to *Default* and cannot be changed as long as Channel is set to *Selected*.



NOTE

Digital channels do not appear in the list of channels. A digital radio can only be paged when it is the currently selected channel.

FREQUENCY

Displays the available **Frequency** labels assigned to the currently selected Radio Channel Control. Click the down arrow and select the frequency (radio channel) you wish to page on from the drop-down list. The number of frequencies available depends on the configuration of the radio connected to this console's audio channel (Radio Channel Control you selected in **Channels**).

You have the following possible choices: Default, Frequencies 1 through 16. Choosing Default steers the page to the frequency that is currently used by the system for the channel. Choosing one of Frequencies 1 through 16 steers the page to that particular frequency of the channel.

If you choose an invalid entry, the program uses the default value.

BUTTONS

OK

Click the button to accept the new entry, close the dialog box and return to the **Paging Facility** dialog box with the new entry displayed.

CANCEL

Click the button to cancel the additional entry, close the dialog box and return to the **Paging Facility** dialog box.

EDIT PAGE LIST ENTRY DIALOG BOX

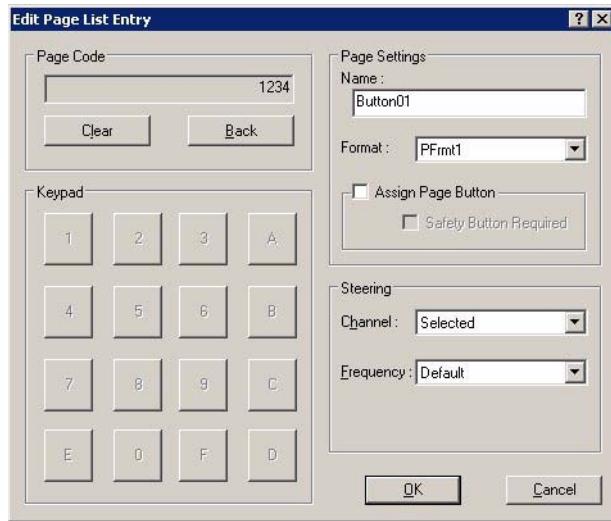
As a supervisor, you use this dialog box to edit entries in the selected **Page List** tab of the **Paging Facility** dialog box.

This is the second dialog box in a series of two dialog boxes with the first being the **Paging Facility** dialog box.

ACCESS

Click the **Page List** function button on the **Toolbar** or select the **Page List** command from the **Tools** menu. In the **Paging Facility** dialog box, highlight the desired entry in the tabbed **Page List**, click the **Edit Mode** button and then in the **Entry** area, click the **Edit** button.

FIGURE 2-34 EDIT PAGE LIST ENTRY DIALOG BOX



PAGE CODE AREA

PAGE CODE

Displays the paging code or tone sequence of the entry as you enter digits with the keypad.

PAGE CODE AREA BUTTONS

CLEAR

Click the button to clear the entire **Page Code** text box.

BACK

Click the button to clear the last entered character in the **Page Code** text box.

KEYPAD AREA

KEYPAD

Select the appropriate paging format from the **Format** drop-down list before entering the paging code or tone sequence for the entry's pager. The numbers you enter appear in the **Page Code** text box.

PAGE SETTINGS AREA

NAME

Displays the name of the entry (as listed in the current **Paging List** tab of the **Paging Facility** dialog box). To change the name, type the new name in the text box.

FORMAT

To change the paging format, click the down arrow and select the paging format from the list. The paging types are configurable.

ASSIGN PAGE BUTTON

Select this check box to create a page button for this page list entry.

SAFETY BUTTON REQUIRED

Select this check box to require that a safety button be used with the page button for this entry.

STEERING AREA

CHANNEL

Displays available Radio Channel Controls in the system. To change, click the down arrow and select the Radio Channel Control containing the frequency (radio channel) you wish to page on from the drop-down list.

The number of Radio Channel Controls available depend on your system set-up. The last choice in the list is *Selected*. Choosing this option steers the page to all the Radio Channel Controls that are selected at the console. In this case, the **Frequency** scroll list is forced to *Default* and cannot be changed as long as the **Channel** is set to *Selected*.



NOTE

Digital channels do not appear in the list of channels. A digital radio can only be paged when it is the currently selected channel.

FREQUENCY

Displays the available **Frequency** labels currently assigned to the selected Radio Channel Control. Click the down arrow and select the frequency (radio channel) you wish to page on from the drop-down list. The number of frequencies available depends on the configuration of the radio connected to this console's audio channel (Radio Channel Control you selected in **Channels**).

You have the following possible choices: Default, Frequencies 1 through 16. Choosing Default steers the page to the frequency that is currently used by the system for the channel. Choosing one of Frequencies 1 through 16 steers the page to that particular frequency of the channel.

If you choose an invalid entry, the program uses the default value.

BUTTONS

OK

Click the button to accept the changes, close the dialog box and return to the **Paging Facility** dialog box with the corrected entry displayed.

CANCEL

Click the button to cancel the changes, close the dialog box and return to the **Paging Facility** dialog box.

INSERT GROUP PAGE DIALOG BOX

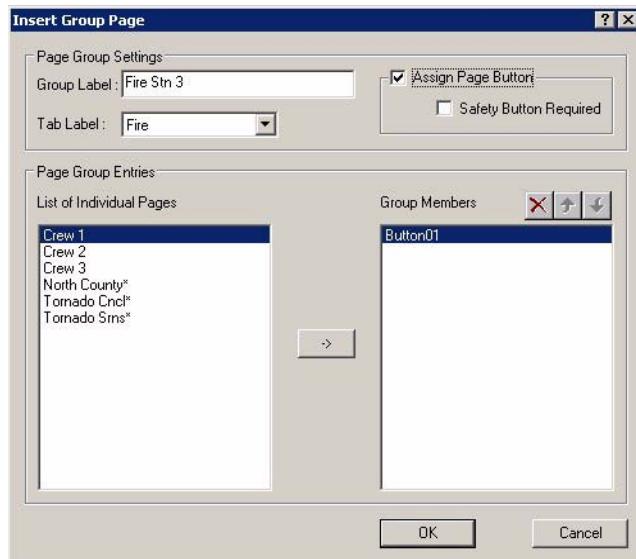
As a supervisor, you use this dialog box to create a group of up to 50 single pages into one group. You must create single pages before you create Group Pages. You cannot add a group within another group.

This is the second dialog box in a series of two dialog boxes with the first being the **Paging Facility** dialog box.

ACCESS

Click the **Page List** function button on the **Toolbar** or select the **Page List** command from the **Tools** menu. In the **Paging Facility** dialog box, click the **Edit Mode** button and then in the **Tab** area, click the **Insert Group** button.

FIGURE 2-35 INSERT GROUP PAGE DIALOG BOX



PAGE GROUP SETTINGS AREA

GROUP LABEL

Type the new group name in the text box. To avoid truncation in the **Paging Facility** dialog box, keep **Group** names to a limit of 16 characters (11 characters if the name is typed in all uppercase).

TAB LABEL

Select the tab containing the single pages that you want to add from the **Tab Label** drop-down list.

ASSIGN PAGE BUTTON

Select this check box to create a page button for this page group entry.

SAFETY BUTTON REQUIRED

Select this check box to require that a safety button be used with the page button for this entry.

PAGE GROUP ENTRIES AREA

LIST OF INDIVIDUAL PAGES

Displays the single pages that exist in the tab selected in the **Tab Label** drop-down list.

GROUP MEMBERS

Displays current members of the group listed in the **Group Label** text box.

PAGE GROUP ENTRIES AREA BUTTONS

ADD TO GROUP 

Click the button to add the selected individual page to the **Group Members** list.

DELETE 

Click the button to delete the highlighted single page in the **Group Members** list.

UP 

Click the button to move the highlighted single page up one position in the **Group Members** list.

DOWN 

Click the button to move the highlighted single page down one position in the **Group Members** list.

BUTTONS

OK

Click the button to accept the new group entry, close the dialog box and return to the **Paging Facility** dialog box with the new entry displayed.

CANCEL

Click the button to cancel the additional group entry, close the dialog box and return to the **Paging Facility** dialog box.

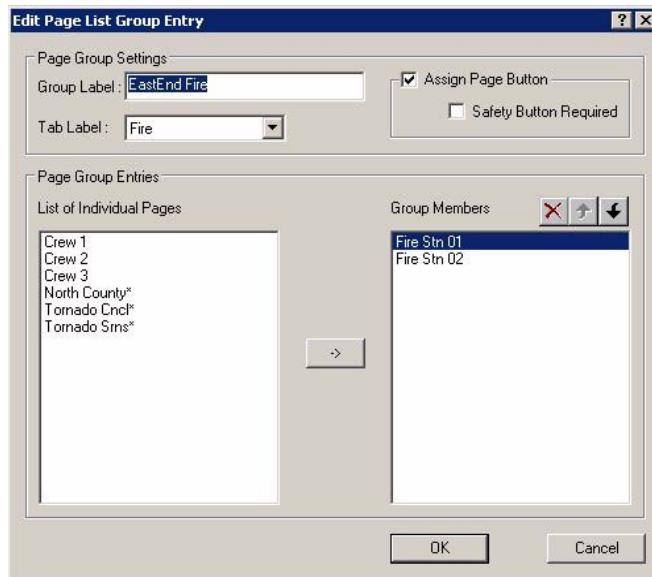
EDIT PAGE LIST GROUP DIALOG BOX

This dialog box allows you to edit groups listed in the selected Page List tab of the **Paging Facility** dialog box. This is the second dialog box in a series of two dialog boxes with the first being the **Paging Facility** dialog box.

ACCESS

Click the **Page List** function button on the **Toolbar** or select the **Page List** command from the **Tools** menu. In the **Paging Facility** dialog box, highlight the desired group entry in the tabbed **Page List**, click the **Edit Mode** button and then in the **Entry** area, click the **Edit** button.

FIGURE 2-36 EDIT PAGE LIST GROUP DIALOG BOX



PAGE GROUP SETTINGS AREA

GROUP LABEL

Displays the new group name in the text box. To avoid truncation in the **Paging Facility** dialog box, keep **Group** names to a limit of 16 characters (11 characters if the name is typed in all uppercase).

TAB LABEL

Select the tab containing the single pages that you want to add from the **Tab Label** drop-down list.

ASSIGN PAGE BUTTON

Select this check box to create a page button for this page group entry.

SAFETY BUTTON REQUIRED

Select this check box to require that a safety button be used with the page button for this entry.

PAGE GROUP ENTRIES AREA

LIST OF INDIVIDUAL PAGES

Displays the single pages that exist in the tab selected in the **Tab Label** drop-down list.

GROUP MEMBERS

Displays current members of the group listed in the **Group Label** text box.

PAGE GROUP ENTRIES AREA BUTTONS

ADD TO GROUP 

Click the button to add the selected individual page to the **Group Members** list.

DELETE 

Click the button to delete the highlighted single page in the **Group Members** list.

UP 

Click the button to move the highlighted single page up one position in the **Group Members** list.

DOWN 

Click the button to move the highlighted single page down one position in the **Group Members** list.

BUTTONS

OK

Click the button to accept the changes, close the dialog box and return to the **Paging Facility** dialog box with the modified entry displayed.

CANCEL

Click the button to cancel the changes, close the dialog box and return to the **Paging Facility** dialog box.

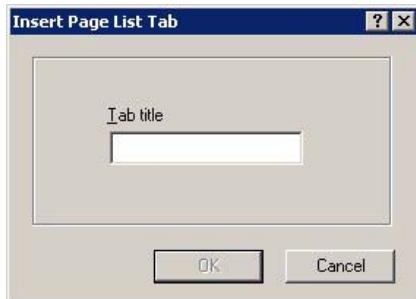
INSERT PAGE LIST TAB DIALOG BOX

As a supervisor, you use this dialog box to insert a tab in the **Paging Facility** dialog box tabbed **Paging List**. This is the second dialog box in a series of two dialog boxes with the first being the **Paging Facility** dialog box.

ACCESS

Click the **Page List** function button on the **Toolbar** or select the **Page List** command from the **Tools** menu. In the **Paging Facility** dialog box, click the **Edit Mode** button and then in the **Tab** area, click the **Insert** button.

FIGURE 2-37 INSERT PAGE LIST TAB DIALOG BOX



TAB TITLE

Enter the new name in the text box.

BUTTONS

OK

Click the button to accept the new tab, close the dialog box and return to the **Paging Facility** dialog box. The new tab appears to the right of the current **Page List** tab.

CANCEL

Click the button to cancel the new tab, close the dialog box and return to the **Paging Facility** dialog box.

EDIT PAGE LIST TAB DIALOG BOX

As a supervisor, you use this dialog box to edit a tab name in the **Paging Facility** dialog box tabbed **Paging List**. This is the second dialog box in a series of two dialog boxes with the first being the **Paging Facility** dialog box.

ACCESS

Click the **Page List** function button on the **Toolbar** or select the **Page List** command from the **Tools** menu. In the **Paging Facility** dialog box, select the desired tab in the tabbed **Page List**, click the **Edit Mode** button and then in the **Tab** area, click the **Edit** button.

FIGURE 2-38 EDIT PAGE LIST TAB DIALOG BOX



TAB TITLE

Displays the current tab name. To change the name, type the new name in the text box.

BUTTONS

OK

Click the button to accept the changes, close the dialog box and return to the **Paging Facility** dialog box with the newly titled tab displayed.

CANCEL

Click the button to cancel the changes, close the dialog box and return to the **Paging Facility** dialog box.

CALLER ID COMMAND

This command on the **Tools** menu opens the **Caller ID** dialog box which displays the **Caller ID Alias** list (database entries). As a supervisor, you create, modify and delete Caller ID database entries in the MIP 5000 VoIP Radio Console program. You can test the database for errors. See “Maintaining the Caller ID Database” on page 1-72 for more information.

The **Caller ID** refers to the Caller ID Alias database, which stores aliases (names) associated with MDC Units (radios configured for STAT-ALERT signaling), STAT-ALERT status codes and messages, ASTRO Units (Consolette mobiles configured for ASTRO signaling), and MOTOTRBO radios. Caller IDs display in the Activity Log window, the **Paging and Signaling** dialog box (**MDC Unit Alias**), the **Enter RAC** dialog box (**MDC Unit Alias**) plus on the Radio Channel Control label area and in the radio channel queue.

For an incoming radio call, the Caller ID feature identifies the calling party. When a mobile radio user presses the PTT on a mobile radio with a PTT ID, that ID is sent on the radio channel along with their voice transmission. The console receives that PTT ID and retrieves the associated alias (name) from the Caller ID Alias database. The console then displays the alias on the Radio Channel Control and operators can see who is making the call. If no alias is defined, the console displays the PTT ID.



NOTE

If a channel has been configured in the CSDM for Selective Call with DTMF Caller ID, instead of expecting a PTT ID, the system expects to receive a DTMF console ID from the mobile. All consoles that have been identified in the CSDM as having that DTMF console ID have their speakers unmuted for this channel when the ID is received. No Caller ID is displayed for these calls.

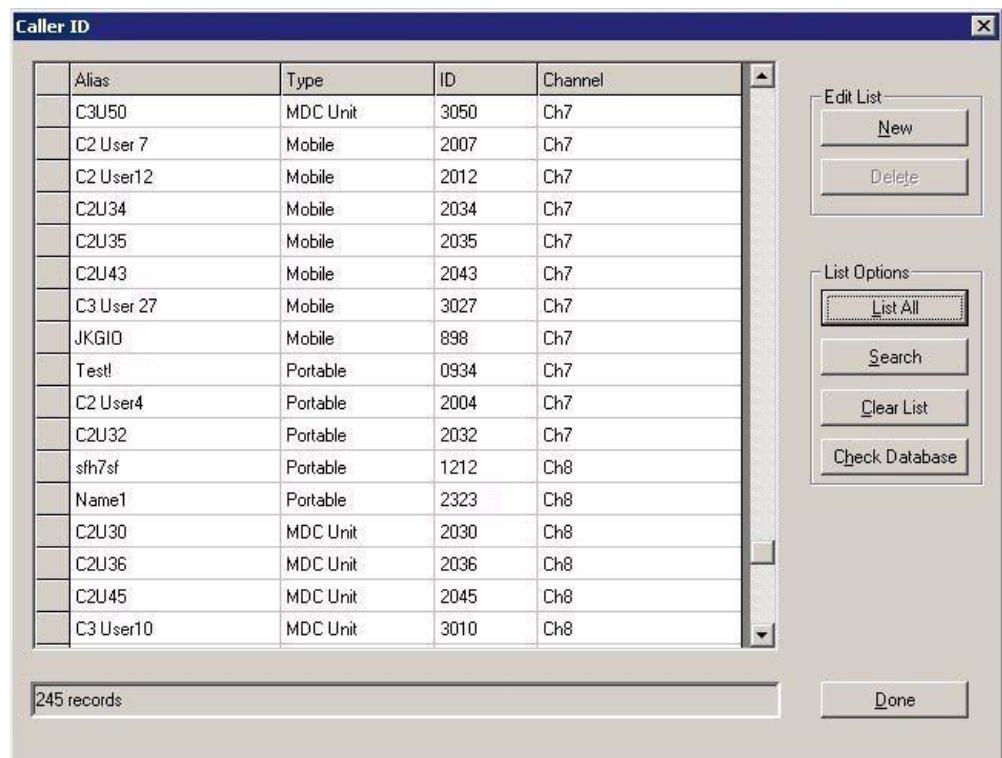
Caller ID aliases are not available for mobile radio channels. Instead of a Caller ID alias, the PTT ID of the mobile unit is displayed.

CALLER ID DIALOG BOX

Tools > Caller ID

As a supervisor, you use this dialog box to add and edit the parameters of Caller IDs and search for a caller identification in the database. The **Type** parameter on the Caller ID record determines where the information displays. **ASTRO Unit**, **MOTOTRBO**, **Message**, **Status**, and **DTMF** types apply to incoming calls and all display in the label area of the Radio Channel Control. The **MDC Unit** applies to outgoing and incoming calls and appears in the **Paging and Signaling** dialog box and the **Enter RAC** dialog box.

The **Caller ID** dialog box is the first dialog box in a series of two dialog boxes with the second being the “Search Alias Dialog Box” on page 2-69.

FIGURE 2-39 CALLER ID DIALOG BOX**CALLER ID ALIAS LIST**

Displays selected records from the Caller ID Alias database. The list contains these details: Alias (displayed on the console during a call), Type (of signaling protocol used), ID and the Radio Channel Control (the call will come in or go out on).

EDIT LIST AREA BUTTONS**NEW**

Click the button to add alias records to the database. This takes you to the end of the Caller ID Alias list where you:

1. Double click in the **Alias** column to put the list in edit mode.
2. Type the caller's alias (usually the user's name) or repeater alias (for RAC) in the Alias column (maximum 16 characters).
3. Use your TAB key to move to the each column in the line.

OR

Double click in the next column. This column is now in edit mode.

4. Click the **Type** down arrow and specify the signaling protocol used by the caller from the drop-down list. The available options are:
 - MDC Unit (uses STAT-ALERT protocol)
 - Message (uses the STAT-ALERT protocol and signifies that the caller is sending a message)
 - Status (uses the STAT-ALERT protocol and signifies that the caller is sending a status message)
 - DTMF
 - ASTRO Unit
 - MOTOTRBO operating in digital RF mode
5. Type the identifying PTT ID of the user in the ID text box. The **Type** column selection affects:
 - The type of character allowed in this field ((DTMF—0-9, A-D, #, *; **Message**, **Status**, **Astro Unit**, **MOTOTRBO**—numbers only; **MDC Unit**—0-9, A-E).
6. Click the **Channel** down arrow and associate radio channel(s) with this alias from the drop-down list.
7. Use your TAB key to add another entry.
OR
Click on the next line to just add this entry.
Your entry appears in the **Caller ID** dialog box. The program automatically saves the changes to the Caller ID database.

DELETE

Highlight the record you wish to delete in the **Caller ID Alias** list and click the button delete the record in the database. A confirmation dialog box appears to confirm your decision.

LIST OPTIONS AREA BUTTONS

LIST ALL

Click the button to alphabetically display all records in the database in the **Caller ID Alias** list.

SEARCH

Click the button to open the **Search Alias** dialog box where you can enter record details and search for specific existing alias records in the database. The entry(ies) matching your parameters appear in the **Caller ID Alias** list.

CLEAR LIST

Click the button to clear all records currently displayed **Caller ID Alias** list. This does not affect the database, it only removes text from the list.

CHECK DATABASE

Click the button to check the database for errors and report them. The program checks the database and reports the results as a text message in the **Caller ID Alias** list.

BUTTONS

DONE

Click the button to close the dialog box and return to the main window.

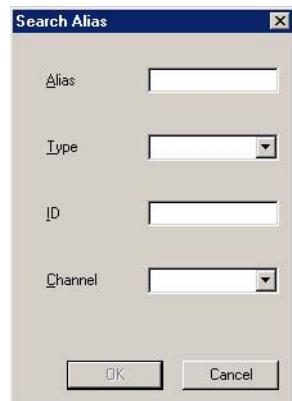
SEARCH ALIAS DIALOG BOX

Tools > Caller ID > Search Button

As a supervisor, you use this dialog box to search for specific existing records in the Caller ID Alias database. The fields in this dialog box relate directly to the record details displayed in columns in the **Caller ID Alias** list of the **Caller ID** dialog box. You can search for a specific record or a group of records based on the combination of entries in this dialog box. These entries become the search parameters. You do not have to use every field, but the more parameters you specify the narrower the search.

This is the second dialog box in a series of two dialog boxes with the first being the “Caller ID Dialog Box” on page 2-66.

FIGURE 2-40 SEARCH ALIAS DIALOG BOX



ALIAS

Type the caller's alias in the text box to search records by alias (maximum 16 characters). You can put in a partial name or one character and all records containing that character are found.

TYPE

Click the down arrow and choose a parameter from the drop-down list to search for specific signaling protocol used by the callers. Your selection affects the number of characters allowed in the ID field. The following available options are:

- MDC Unit (uses STAT-ALERT protocol)
- Message (uses the STAT-ALERT protocol and signifies that the caller is sending a message)
- Status (uses the STAT-ALERT protocol and signifies that the caller is sending a status message)
- DTMF (unit ID which uses the standard DTMF frequencies)
- ASTRO Unit
- MOTOTRBO

ID

Type the desired PTT ID in the text box to search records by PTT ID (the **Type** field selection affects the number of characters: maximum four characters, except for DTMF, MOTOTRBO, and ASTRO Unit which is eight characters and status and message have three characters). You can put in a partial PTT ID or one character and all records containing that character are found.

The ranges for each ID type are listed below:

- MDC Unit—1-DEEE (hexadecimal)
- Message—0-255 (decimal)
- Status—0-255 (decimal)
- DTMF—1-8 digits starting with 0, including #, * (hexadecimal)
- ASTRO Unit—0-99999999 (decimal)
- MOTOTRBO—1-16776415 (decimal)

CHANNEL

Click the down arrow and choose a parameter from the drop-down list to search for records by associated Radio Channel Control.

BUTTONS**OK**

Click the button to search for records in the Caller ID Alias database and return to the **Caller ID** dialog box. The entry(ies) matching your parameters appear in the **Caller ID Alias** list.

CANCEL

Click the button to cancel this search, close the dialog box and return to the **Caller ID** dialog box.

ENTER RAC COMMAND

For information on the **Enter RAC** command, see the *MIP 5000 VoIP Radio Console Operator Manual* (6881013Y34).

HELP MENU

For information on the **Help** menu, see the *MIP 5000 VoIP Radio Console Operator Manual* (6881013Y34).

GLOSSARY

ABS — Acrylonitrile-Butadiene-Styrene, a durable, fire-resistant plastic.

AC — See *Alternating current*.

ACO — Alarm cut off.

AGC — Automatic gain control.

APB — All points bulletin.

Alternating current — Electrical current that flows in alternately in one direction then the other, such as supplied by most electrical power grids for public consumption.

Channel — The radio's channel communication is one of the following:

- Transmit frequency only-for one-way communication
- Receive frequency only-for one-way communication
- Simplex frequency-using one frequency for two-way communication, one-way at a time
- Half-duplex or two frequency simplex-using a separate transmit and receive frequency for two-way communication, one-way at a time
- Full-duplex frequencies-using a separate transmit and receive frequency for two-way simultaneous communication

COM, Com — Usually “communications” as in the COM port on a PC, a serial communications port; also “common ground” as in the Com port on an I/O module.

Console System Database Manager (CSDM) — A configuration and maintenance tool for the MIP 5000 system. The CSDM is used to configure MIP 5000 VoIP Radio Consoles and MIP 5000 Gateways.

CPU — Central processing unit

CSDM — See *Console System Database Manager (CSDM)*.

CTCSS — Continuous tone carrier squelch system.

Data root path — The route to the top-level folder of a folder structure for storing data files. The top-level folder is intended to hold subfolders, not data files. When first created, it is empty. For example, the following is a MIP 5000 data root path:

- C:\Documents and Settings\All Users\Application Data

Following are examples of two separate data branches from this data root path:

- C:\Documents and Settings\All Users\Application Data\Motorola\MIP 5000\OIM
- C:\Documents and Settings\All Users\Application Data\Motorola\MIP 5000\DCPM

dB — Decibel; a unit used to express relative difference in power, usually between acoustic or electric signals, equal to ten times the common logarithm of the ratio of the two levels.

dBm — Decibel relative to 1 milliwatt.

DC — See *Direct current*.

Deskmic — Desktop microphone

Direct current — Electrical current that flows in one direction only, such as supplied by a battery

DTMF — Dual tone multiple frequency.

Emerg — Emergency.

EMI — Electromagnetic interference.

ESD — Electrostatic discharge.

Feedback — The return of some of the output of a system to the input of the same system. In the case of audio systems, feedback can cause speakers to emit a high-pitched squeal or an echo that severely impairs sound quality from the speakers.

Frequency Coupled — The radio channel has a fixed transmit and receive frequency pair for simplex or duplex operation. For more information, see *Radio channel*.

Graphical User Interface (GUI) — An icon-based user interface.

GUI — See *Graphical User Interface (GUI)*.

Hangover delay — The hangover delay is a period of time after incoming audio has stopped that the system will consider that the channel is still in use.

HASP key — A proprietary, hardware-based, cross-platform software copy protection and licensing system that plugs into a USB port. (HASP stands for Hardware Against Software Piracy.)

Hz — A measure of frequency equal to the number of cycles per second.

Internet Protocol (IP) — A protocol used for carrying packets of data primarily in Ethernet based systems.

IP, Ip — See *Internet Protocol (IP)*.

IP Multicast — A protocol for efficiently sending to multiple receivers at the same time on a TCP/IP network, by use of a multicast address. It is a feature used especially in RTP. Multicasting permits a message that is transmitted once to be received at many network nodes.

Jitter — The unwanted, abrupt variation of one or more signal characteristics, such as frequency or phase of successive cycles.

k — Kilo (1,000)

kHz — Kilohertz; that is, one thousand Hertz (1,000 cycles per second)

LAN — See *Local area network (LAN)*.

LED — Light emitting diode

Local area network (LAN) — A network that connects computers together within an office complex

mA — Milli-Amperes.

MAC Address — A Media access control (MAC) address is a network address that uniquely identifies each node of a network. The MAC addresses used by the MIP 5000 system are based on the Ethernet MAC-48 specification. Each MAC address uses 48 bits, which provides a range of 281,474,976,710,656 possible addresses.

Mbps — Megabits (millions of bits) per second.

MDC — Mobile data communications.

MIC — Microphone.

ms — Millisecond (1/1000 of a second).

Multicast address — An identifier for a group of hosts that have joined a multicast group.

Multi-Sel — Multiple selection.

PC — See *Personal computer (PC)*.

Personal computer (PC) — An IBM-compatible single-user computer.

Prog — Program.

PTT — See *Push-to-talk (PTT)*.

Push-to-talk (PTT) — The way a subscriber initiates a call. When the PTT switch on a radio is pressed (also known as keying up), this indicates that a call is being initiated by a user. Also known as press-to-talk.

Radio frequency (RF) — General term for the range of frequencies at which used in radio communication systems.

RAC — Repeater access code.

Radio channel — In radio technology, the radio's channel communication is one of the following:

- Transmit frequency only—for one-way communication
- Receive frequency only—for one-way communication
- simplex frequency—using one frequency for two-way communication, one-way at a time
- Half-duplex or two frequency simplex—using a separate transmit and receive frequency for two-way communication, one-way at a time
- Full-duplex frequencies—using a separate transmit and receive frequency for two-way simultaneous communication

RCU — Remote control unit

Real-time transport control protocol (RTCP) — An Internet protocol for providing out-of-band control information about RTP flows, such as quality of service feedback.

Real-time transport protocol (RTP) — An Internet protocol for transmitting real-time data, such as audio or video.

Resources — A general term for network infrastructure and radio channels. Also buttons that execute features related to network infrastructure and radio channels.

RF — See *Radio frequency (RF)*.

RFI — Radio frequency interference.

RTCP — See *Real-time transport control protocol (RTCP)*.

RTP — See *Real-time transport protocol (RTP)*.

RX, Rx — Receive/received/receiving.

SVGA — Super video graphics array.

Talkaround — Use of radio channel by a mobile radio to communicate directly to other mobile radios on the system by bypassing (or talking around) the repeater.

Talkdown — A period of time following a page when the microphone of the console issuing the page is keyed. During this time period, a dispatcher can add a voice annotation to the page by speaking into the microphone. In the MIP 5000 VoIP Radio Console, the talkdown (or voice annotation) period is set in the CSDM.

TCP/IP — Transmission Control Protocol/Internet Protocol.

TX, Tx — Transmit/transmitted/transmitting.

Universal serial bus (USB) — An external data bus supporting high-speed data transfer rates. A USB port on a computer can be used to connect a large and varied range of peripheral equipment.

UPS — Uninterruptable power supply.

USB — See *Universal serial bus (USB)*.

VDC — DC volts.

Voice annotation delay — The time that the radio channel is held open (keyed) for the dispatcher to send a voice message.

Voice over Internet Protocol (VoIP) — A method of transmitting audio signals, including the human voice on IP networks.

VOL — Volume.

VOX — voice operated switch.

VU — Volume Unit; a volume meter that visually indicates the volume over time, usually by means of green, red, and amber rectangles that form a bar graph.

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