



**GW3-TRBO®**  
**Alias**  
**Software Version 2.12**  
**Module Book**

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**GW3-TRBO®**

**600-2.12.0-G.1**  
**2/24/2016**



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Refer to the *Troubleshooting & Support* section of the GW3-TRBO Manual Shell (Book 600-2.12.0-AA.1) for complete support and contact information.

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## Goals

This document describes the role and function of the Alias module in the GW3-TRBO solution.

## Who Should Read This Manual?



This manual is written for an intended audience of novice to mid-level MOTOTRBO radio system users and novice to mid-level PC users. System administrators and data entry personnel should read this manual. Because the Alias graphical user interface (GUI) is used to maintain groups, radios, etc., you may use this GUI more than others.

## How This Manual Is Organized

This manual is organized as follows:

- **Overview:** Defines Alias and explains its function.
- **Aliasing Resources:** Describes the process and benefit of aliasing resources.
- **Managing Tags:** Describes how to manage Alias tags.
- **Managing Locations:** Describes how to manage Alias locations.
- **Managing Agencies:** Describes how to manage Alias agencies.
- **Advanced Alias Features:** Describes the *Multiselect*, *Color Change* and *Values Differ* features.
- **Deleting Resources:** Describes how to delete resources.
- **Exporting Resources:** Describes how to export resource from Alias.
- **Importing Resources:** Describes how to import resources into Alias.

This manual contains the following images, used to indicate that a segment of text requires special attention:

-  **Additional Information:** Additional information is used to indicate shortcuts or tips.
-  **Warning:** Warnings are used to indicate possible problem areas, such as a risk of data loss, or incorrect/unexpected functionality.

## ***Important Note***

The MOTOTRBO “backbone” that GW3-TRBO uses is a powerful stream of data that, as time goes by, will be revealing much more of its power. You may notice GW3-TRBO terms, setup options or real-time activity properties that may not make sense in the current MOTOTRBO world. If you see terms, options or properties that are not adequately explained in your GW3-TRBO documentation, please contact support, look in the Glossary section of the GW3-TRBO Manual Shell, or on our GW3-TRBO web site. If you see terms, options or properties that you understand, but do not pertain to MOTOTRBO, please disregard them for the time being. As new MOTOTRBO features are added over time, you will begin to understand that your GW3-TRBO is ready for those MOTOTRBO enhancements!



This chapter provides an overview of the Alias GUI.

This chapter contains the following sections:

- **Terms:** Defines some of the terms used in this document.
- **What is Alias?** Describes the Alias GUI.
- **Refreshing the Resources Tree:** Instructions on how to refresh the **Resources** tree.
- **Valid Resource ID Ranges:** Defines the valid resource ID ranges, based on system type and resource type.

## Terms



**Tree:** A control that contains nodes. Trees use nodes to organize items in a way that shows their relationship. For example, the **Talkgroups** node exists under a system node.



**Node:** An item in a tree, such as a group, radio ID, etc.

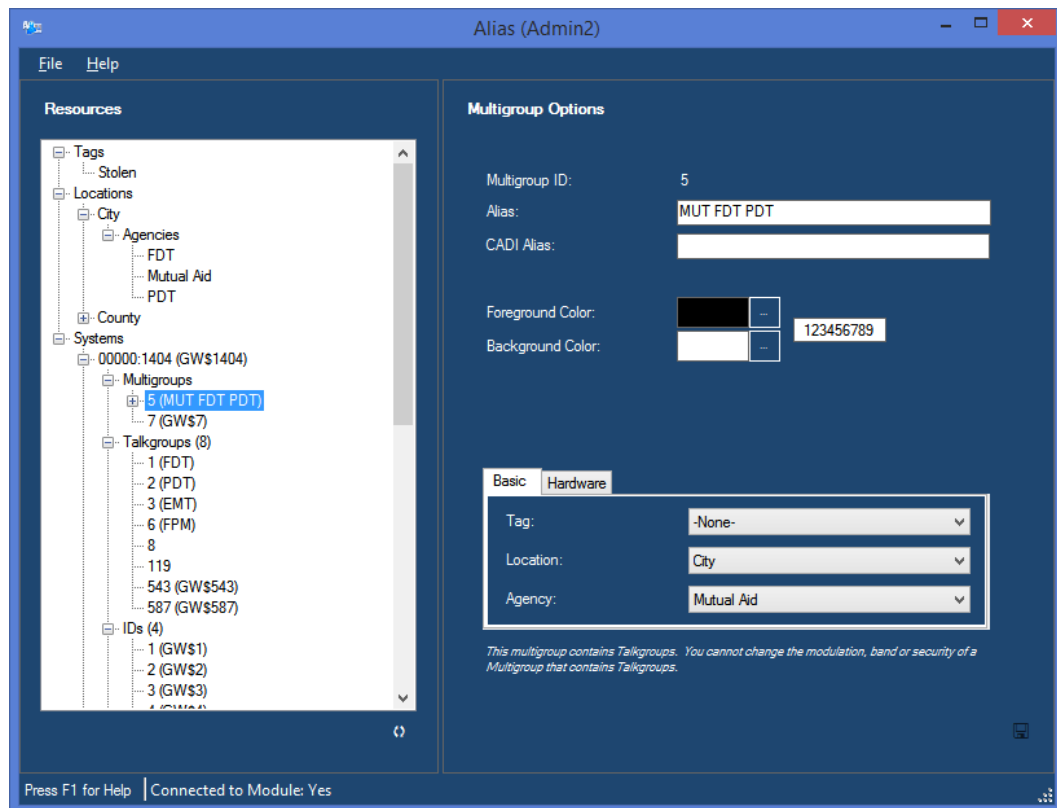


**Parent Node:** A node that has child nodes under it. For example, the **Talkgroups** parent node contains many child nodes. Each child node represents a group.

## What is Alias?

The Alias GUI (shown in Figure 1.1) allows you to provide aliases (easily recognized names) and additional information for your trunked radio system resources such as:

- Tags
- Locations
- Agencies
- Systems
- Multigroups
- Talkgroups
- IDs (radio IDs)
- Zones
- Sites
- Channels (frequencies)
- Satellite Receivers



**Figure 1.1** – Alias GUI

## Refreshing the Resources Tree

You must refresh the resource tree to view resources that are dynamically added while the Alias GUI is open. To refresh the resource tree, click the **Refresh** Button. This will reload the resource tree and collapse all nodes in the tree down to the System's child nodes.

## Valid Resource ID Ranges

Table 1.1 shows a list of valid resource ID ranges. These are the values that will be allowed for entry or import in Alias:

| System Type | Resource Type         | Valid Range     |
|-------------|-----------------------|-----------------|
| TRBO        | Radio ID              | 1 to 16,777,215 |
|             | Talkgroup ID          | 1 to 16,777,215 |
|             | Satellite Receiver ID | 1 to 16,777,215 |

**Table 1.1** – Valid Resource ID Ranges

## Text Validation

Alias applies the following rules to text values (such as **Alias**) entered or imported into the Alias database:

- Text values are limited to a particular length. (for column limit definitions, see the *Resource Import Columns* section of *Chapter 9: Importing Resources*)
- Leading and trailing spaces are removed from entered or imported text values.
- All instances of invalid characters are removed from entered or imported text values. All enterable characters are valid. Escape characters (such as tab) are invalid. Spaces are valid in all text values except for **CAD Alias** (applicable in future versions of MOTOTRBO).

If invalid characters are entered into a textbox, Alias will remove the invalid characters when you are finished editing the textbox. In this case, you will see the following message (as seen in Figure 1.2):

*This textbox contained invalid characters. These characters were removed.*



**Figure 1.2** – Alias Textbox with Invalid Characters (Alt+12 and Alt+16)

This chapter describes the process and benefit of aliasing resources.

### *How does it Work?*

All known resources are shown in the resource tree, under the **Systems** node. The resource tree starts with licensed systems. A resource is added when:

- It is mentioned in packets received by the Alias module, and its parent resource indicates that this is allowed (the parent relationship is described in detail below).
- A user adds a resource by right-clicking on a parent node (such as **Talkgroups**) and clicking the **Add a <resource>...** option.
- A user performs an import.

The sections below describe the alias values for each resource type.



Tags, locations and agencies are described in separate chapters, later in this manual.

### *Systems Node*

The **Systems** node is the parent node (the highest node) to all systems. This node does not provide any options. It simply acts as a parent node for each System node.



Deleting a system will cause all active diagnostics associated with that system to be cleared. Clearing the alarms requires there to be a connection in the Trbo module responsible for the deleted system; however, the connection does not have to be enabled.

### *Systems Node Menu*

View the **Systems** node menu by right-clicking on the **Systems** node. This menu contains the following options:

- **Import Resources From License...:** Imports the resources defined in the GW3-TRBO license. Licensed resources include WACNs, systems, and groups. Each GW3-TRBO installation is licensed for at least one WACN and system. Some are also licensed for specific groups.
- **Resynchronize Module with DB...:** Reloads all non-group, non-radio ID resources into the tree and clears the IDs and Talkgroups search results.
- **Show List...:** Shows the *System ID List*.

## System Nodes

Each system node represents a licensed system ID. Click on a system node to show the **System Options** panel. This panel contains the following values:

- **System ID:** Hexadecimal ID of the system.
- **Alias:** Alias for this system.
- **System Type:** System type used to enforce resource ID ranges. These include:
  - **TRBO:** MOTOTRBO systems of any type
- **Band:** System Band. These include:
  - *OBT*
  - *800 MHz*
  - *900 MHz*
- **ID Format:** Formatting option to use for radio IDs and talkgroups. These include:
  - *I7xxxxx/T8xxxxx*
  - *7xxxxx/8xxxxx*
  - *Numeric*
  - *Hexadecimal*
- **Dynamically Add Talkgroups:** When Channel Assignments occur on this system, add the associated talkgroups.
- **Dynamically Add Radio IDs:** When activity occurs on the system, add the associated Radio IDs. Also allows GW3-TRBO to track current connection state for radios.
- **Dynamically Add Zones:** When activity occurs on the system, add the associated zones.
- **Default TG Settings:** These settings indicate the default hardware values that will be assigned to talkgroups that are dynamically added under this System. These settings are used to denote compatibility between groups and radio IDs. Hardware values include the following options:
  - **Modulation**
    - *Unknown*
    - *Analog*
    - *Digital*
  - **Band**
    - *Unknown*
    - *UHF*
    - *VHF*
    - *800 MHz*
    - *900 MHz*
  - **Security**
    - *Unknown*
    - *Clear*
    - *Coded*

- *Mixed*
- **Default Radio Settings:** These settings indicate the default hardware values that will be assigned to radio IDs that are dynamically added under this System. These settings are used to denote compatibility between groups and radio IDs. Hardware values include the following options:
  - **Modulation**
    - *Unknown*
    - *Analog*
    - *Digital*
  - **Band**
    - *Unknown*
    - *UHF*
    - *VHF*
    - *800 MHz*
    - *900 MHz*
  - **Security**
    - *Unknown*
    - *Clear*
    - *Coded*
    - *Mixed*
- **View Alias Stats...** : Shows the *Alias Stats* window (shown in Figure 2.1). This window shows the count of each Alias resource in total and under the current System ID.
- **View Site Map...**: Shows a graphical representation of the sites under this system. This requires **Latitude**, **Longitude** and **Coverage Radius** for each site.



Default TG Settings and Default Radio Settings options will only be applied to groups and radio IDs that are dynamically added. These defaults are not considered during import (reading in resources from a file). The *Alias Import Wizard* allows selection of these hardware settings for group and radio ID import. Refer to the section entitled *Numeric Enumerations for Resource Properties* in Chapter 9 for definitions of these values during import.

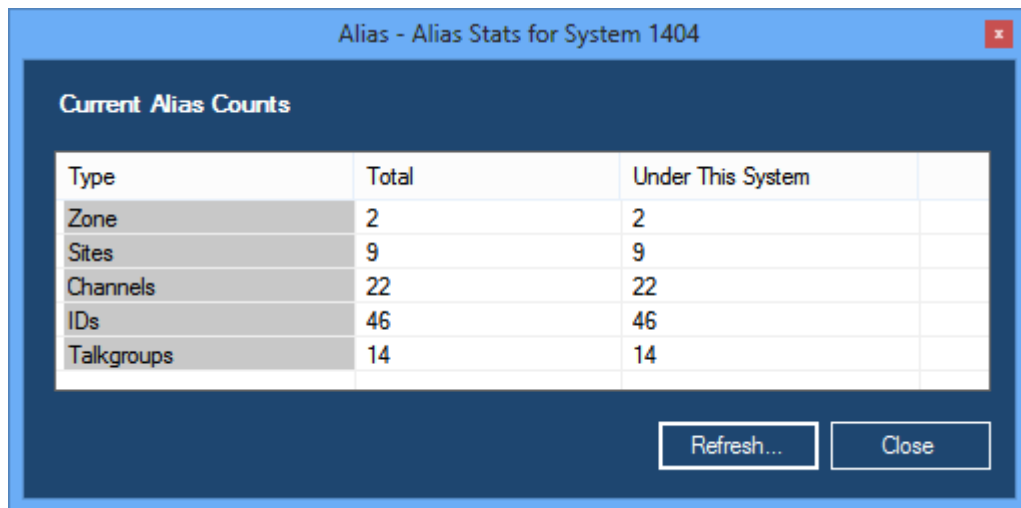
## System Node Menu

To view the system node menu, right-click on a system ID under the **Systems** node. This menu contains the following options:

- **Import Channels...**: Opens the *Alias Import Wizard* which allows you to import channels for this system. Each row in the import file must contain the channel's zone ID and site ID. Zone IDs and site IDs used in this import will be added if they do not already exist.
- **Export Channels...**: Opens the *Alias Export* window, which allows you to export channels for this system.
- **Delete this System**: Deletes the selected system and all resources under the system.

## Alias Statistics

The **View Alias Stats...** button shows the *Alias Stats* window (shown in Figure 2.1). This window shows the count of each Alias resource in total and under the current System ID.



| Type       | Total | Under This System |
|------------|-------|-------------------|
| Zone       | 2     | 2                 |
| Sites      | 9     | 9                 |
| Channels   | 22    | 22                |
| IDs        | 46    | 46                |
| Talkgroups | 14    | 14                |

**Figure 2.1** – Alias Stats Window

**Refresh:** Queries the database for current alias resource totals.

**Close:** Closes the *Alias Stats* window.



## Alias Maximums

GW3-TRBO's aliased resources are limited in quantity. These limits are not theoretical structural limits. These limits are in place to guarantee GW3-TRBO's performance. GW3-TRBO enforces the following maximums for importing and dynamically adding resources:

- Systems – 20
- Zones – 80
- Sites – 1,024
- Channels – 4,096
- Talkgroups + Multigroups – 50,000
- Radio IDs – 100,000



After reaching the 100,000 radio Id limit, new Ids will no longer be dynamically added based on radio activity. If you wish to continue to dynamically add new Ids, the Expire IDs feature will dynamically add a new radio Id and remove the radio Id with the oldest last contact timestamp, thus maintaining the 100,000 limit. The Expire IDs feature can be enabled in configuration file. Please contact support for assistance enabling this feature.

## Resource Lists

Right-clicking on a resource parent node (such as Systems, Zones, Sites, Channels, Satellite Receivers, IDs and Talkgroups) shows the **Show List...** option. This option shows a printable list of all resources currently loaded under the parent node (as shown in Figure 2.2). If the resources are assigned a background and foreground color (such as radio IDs and groups), each line will reflect the selected foreground and background colors.

Click the **Print List...** button to print the resource list.

Click the **Export List...** button to export the resource list in a tab-separated value format with column headers.

| Id    | Id (Hex) | Alias       | CADI Alias | Serial Number | Location-Agency | Address | Default Group |
|-------|----------|-------------|------------|---------------|-----------------|---------|---------------|
| 1     | 1        | Radio Alias |            | 7             | City-PDT        |         | 1             |
| 10001 | 2711     | Radio 1     |            | 977897889     | -None-          |         | -             |
| 10002 | 2712     | Radio 2     |            |               | -None-          |         | -             |
| 10003 | 2713     | Radio 3     |            |               | -None-          |         | -             |
| 10004 | 2714     | Radio 4     |            |               | -None-          |         | -             |
| 10005 | 2715     | Radio 5     |            |               | -None-          |         | -             |
| 10006 | 2716     | Radio 6     |            |               | -None-          |         | -             |
| 10007 | 2717     | Radio 1     |            | 977897889     | -None-          |         | -             |

**Figure 2.2** – Radio IDs Resource List

## Talkgroup Nodes

These represent a group under its parent system. Click on a group node to show the **Talkgroup Options** panel (Figure 2.3). This panel contains the following values:

- **Talkgroup ID:** The ID of this talkgroup.
- **Alias:** Alias for this group.
- **CADI Alias:** Alias used by CAD connections in Halcyon. (Applicable in future versions of MOTOTRBO)
- **Multigroup:** The multigroup (if any) this group is assigned to. (Applicable in future versions of MOTOTRBO).
- **Foreground Color:** This group's text color. Many of the real-time module GUIs will show this group using this foreground color if it is changed from the default of black.
- **Background Color:** This group's background color. Many of the real-time module GUIs will show this group using this background color if it is changed from the default of white.
- **Basic Settings**
  - **Tag:** Tag value
  - **Location:** Location value
  - **Agency:** Agency value
- **Hardware Settings:** These settings are used to denote compatibility between groups and radio IDs. Hardware values include the following options:
  - **Modulation**
    - *Unknown*
    - *Analog*
    - *Digital*
  - **Band**
    - *Unknown*
    - *UHF*
    - *VHF*
    - *800 MHz*
    - *900 MHz*
  - **Security**
    - *Unknown*
    - *Clear*
    - *Coded*
    - *Mixed*

**Talkgroup Options**

Talkgroup ID: 1

Alias: FDT

CADI Alias:

Multigroup: 5 (MUT FDT PDT)

Foreground Color:

Background Color:

Basic Hardware

Tag: -None-

Location: City

Agency: FDT

This talkgroup is a member of a Multigroup. You cannot change the modulation, band or security of a Talkgroup that is a member of a Multigroup.

**Figure 2.3** – Talkgroup Options

## Talkgroups Node Menu

Right-click on the **Talkgroups** node to see the Talkgroups node menu. This menu contains the following options:

- **Import Talkgroups...:** Opens the *Alias Import Wizard*, which allows you to import groups.
- **Export Talkgroups...:** Opens the *Alias Export* window, which allows you to export your groups.
- **Add a Talkgroup:** Allows you to add a single group without importing.
- **Show List...:** Shows a list of all groups under the **Talkgroups** node's system.

## Talkgroup Search

When Alias loads, the **Talkgroups** node under each system reads **Talkgroups (Click here to search)**. Click on the **Talkgroups** node to show the **Talkgroup ID Search** panel, shown in Figure 2.4.

**Talkgroup ID Search**

This screen allows you to search for one or more talkgroups. Blank text boxes are ignored. A partial search is performed on the value in text boxes. Lists with "-Any-" selected are ignored.

Talkgroup ID:

Talkgroup Alias:

CADI Alias:

Basic Hardware

Tag:

Location:

Agency:

[Search results are broken into blocks of 200. Click on a link below to view a block.](#)

[1](#)

**Figure 2.4** – Talkgroup ID Search Panel

This panel allows you to enter search criteria for groups. These criteria are described in the *Talkgroup Nodes* section above.

## Using the Talkgroup ID Search Panel

Here are some things to remember when using this search screen:

- All specified criteria are considered in a search. For a group to be included in the search results, it must satisfy all specified criteria.
- A partial search is performed on all text box criteria (such as **Talkgroup ID**, **Talkgroup Alias**, etc.). If a group *contains* the criteria, the group will be included in the search results. This means that if you enter 3 in the **Talkgroup ID**, the search may return talkgroups 3, 10003, 20003, 30003, etc., because these groups' IDs contain 3.
- Blank text box criteria are ignored in the search. If you leave **Talkgroup Alias** blank, then **Talkgroup Alias** is not considered in the search.

- An exact search is performed on all list box criteria (such as **Tag**, **Location**, **Agency**, etc.). If a group has the exact specified list box criteria, the group will be included in the search results.
- List boxes with *-Any-* selected are ignored in the search. If you select *-Any-* for **Tag**, then **Tag** is not considered in the search.
- If you select a specific **Location** and select *-Any-* for Agency, the search will return all groups with an agency under the selected location.

## Talkgroup ID Search Panel Buttons

This panel contains two buttons:

- **Search...**: Click this button to perform a talkgroup search. This will add each talkgroup that matches your search criteria to the **Talkgroups** node.
- **Reset**: Click this button to reset all of the criteria in the **Talkgroup ID Search** panel. All text boxes are cleared and all list box items are set to *-Any-*.

After each search, the **Talkgroups** node will show the result of the search by displaying a number in parentheses. Figure 2.5 below shows a search that resulted in 12 talkgroups.



**Figure 2.5** – Talkgroups Node after a Search

Each talkgroup under the **Talkgroups** node can be edited and deleted just like other Alias resources. Click on a talkgroup node to show the **Talkgroup Options** panel. Right-click on a talkgroup node to see the **Delete** option.

## Talkgroup ID Search Results Blocks

When you perform a search, the **Talkgroup ID Search** panel shows the results in search blocks (See Figure 2.6 below).



**Figure 2.6** – Search Results Blocks

Each number in the list is a link to up to 200 talkgroups that matched your search criteria. By default, the **Talkgroups** node is populated with the first block. Click on the block numbers to view the results in the other blocks. Hover over a block to get a talkgroups ID and alias preview of the talkgroups in the block.

## Talkgroup ID Search Panel Benefits

The benefits of searching for groups are as follows:

- You do not have to sift through possibly thousands of groups just to find the few that you wish to edit or delete.
- Your searches can represent work that you need to do on groups, such as assigning an alias to all groups with an alias like GW\$ (the default alias), or assigning a Location and Agency to all groups with a *–None–* for Location.

## Multigroup Nodes

These represent a group under its parent system. Click on a group node to show the **Multigroup Options** panel (shown in Figure 2.7). This panel contains the following values:

- **Alias:** Alias for this group.
- **CADI Alias:** Alias used by CAD connections in Halcyon. (Applicable in future versions of MOTOTRBO)
- **Foreground Color:** This group's text color. Many of the real-time module GUIs will show this group using this foreground color if it is changed from the default of black.
- **Background Color:** This group's background color. Many of the real-time module GUIs will show this group using this background color if it is changed from the default of white.
- **Basic Settings**
  - **Tag:** Tag value
  - **Location:** Location value
  - **Agency:** Agency value
- **Hardware Settings:** These settings are used to denote compatibility between groups and radio IDs. Hardware values include the following options:
  - **Modulation**
    - *Unknown*
    - *Analog*
    - *Digital*
  - **Band**
    - *Unknown*
    - *UHF*
    - *VHF*
    - *800 MHz*
    - *900 MHz*
  - **Security**
    - *Unknown*
    - *Clear*
    - *Coded*
    - *Mixed*

**Multigroup Options**

Multigroup ID: 5

Alias:

CADI Alias:

Foreground Color:

Background Color:  123456789

Basic Hardware

Tag:

Location:

Agency:

This multigroup contains Talkgroups. You cannot change the modulation, band or security of a Multigroup that contains Talkgroups.

**Figure 2.7** – Multigroup Options

## Multigroups Node Menu

Right-click on the **Multigroups** node to see the Multigroups node menu. This menu contains the following options:

- **Import Multigroups...:** Opens the *Alias Import Wizard*, which allows you to import groups.
- **Export Multigroups...:** Opens the *Alias Export* window, which allows you to export your groups.
- **Add a Multigroup:** Allows you to add a single group without importing.
- **Show List...:** Shows a list of all groups under the **Multigroups** node's system.



## ID Nodes

Each ID node represents a radio ID mentioned under its parent system. IDs are stored under each system.


Click on an ID node to show the **Radio ID Options** panel (shown in Figure 2.8). This panel contains the following values:


- **Radio/Dispatcher ID:** ID of the radio (formatted based on the parent system's **ID Format** option.)
- **Alias:** Alias for this radio ID.
- **CADI Alias:** Alias used by CADI connections. (applicable in future versions of MOTOTRBO)
- **Serial Number:** Radio serial number.
- **Default Group:** The home group for this radio ID. This group is used for validating non-group-based radio activity such as private calls. (See the Security manual for more information).
- **Foreground Color:** This radio ID's text color. Many of the real-time module GUIs will show this radio ID using this foreground color if it is changed from the default of black.
- **Background Color:** This radio ID's background color. Many of the real-time module GUIs will show this radio ID using this background color if it is changed from the default of white.
- **Basic Settings:**
  - **Tag:** Tag value (see *Managing Tags* section)
  - **Location:** Location value (see *Managing Locations* section)



The selected Location is only saved if you choose an Agency under the Location.

- **Agency:** Agency value (see *Managing Agencies* section)
- **Address:** Physical address associated with this radio.
- **Hardware Settings:** Used to determine compatibility between groups and radio IDs. Hardware values include the following options:
  - **Modulation**
    - *Unknown*
    - *Analog*
    - *Digital*
  - **Band**
    - *Unknown*
    - *UHF*
    - *VHF*
    - *800 MHz*
    - *900 MHz*
  - **Security**
    - *Unknown*
    - *Clear*
    - *Coded*
    - *Mixed*

- : Loads the *Unit History* screen. This screen shows the archived history of this radio ID in a given time frame. See Figure 2.8.

 Radio IDs must be entered into Alias (either dynamically or manually) to be displayed in reports created by the GW3-TRBO Reports module. While most radio IDs will be added dynamically, you may need to manually add Alias information for the radio ID used by GW3-TRBO to issue IP Site Connect radio commands.

**Figure 2.8** – Radio ID Options

## Using the Radio ID History Window

The *Radio ID History* window (see figure 2.9) shows all activity for a radio ID in a given time frame. You can access the *Radio ID History* window through many of the GUIs within GW3-TRBO. When you first load the *Radio ID History* window, the activity history is limited to the last 24 hours. To change the time frame, change the dates and times in the **From** and **To** date time boxes and press the **Search...** button.

You can sort the information in the *Radio ID History* window. To sort by a particular column, click the column name. To reverse the sort order (from ascending to descending and back) click the column name again.

## Printing the Radio ID History Window

You may wish to print the contents of the unit history grid. To print this grid:

1. Select the activity in the unit history grid that you wish to print by clicking on an item, then holding down the **Shift** key while clicking on another item. All items between the two you clicked will be selected. If you wish to print all of the activity in the unit history grid, skip this step.
2. Right-click on the unit history grid: This will show the unit history grid options.
3. Click on the **Print ...** option: This will show the printer options window specific to your default printer.
4. Select the options for your printer. It is usually best to choose to print in landscape mode (not portrait).
5. Click **OK** once you are satisfied with your printer options: This will result in a dialog, asking if you want to print the selected items or all items.
6. Make your selection from the dialog.
  - a. **Yes:** Prints each row selected in the unit history grid.
  - b. **No:** Prints all entries in the unit history grid.
  - c. **Cancel:** Cancels this print request.



This window shows data from the GW3-TRBO archive tables. If you are not archiving data, this window will not show any history.



Click the **Change Database...** button to specify the GW3-TRBO database server name and instance if one is not already specified. This is per GW3-TRBO user profile on each GW3-TRBO machine.

The screenshot shows the 'Radio ID History' window with the following search criteria:

- System Id: 00000:1404
- Radio ID: 4
- Alias: GW\$4
- From: 12/ 5/2012 4:48 PM
- To: 12/ 6/2012 4:47 PM

Buttons for 'Last 24 Hours' and 'Yesterday' are visible, along with a 'Search...' button. A 'Change Database...' button is located at the bottom right.

The table below shows the search results:

|   | Zone | Site | Talkgroup | Radio ID | Target Unit | Activity    | Start DT            | End DT           |
|---|------|------|-----------|----------|-------------|-------------|---------------------|------------------|
| ▶ | 1    | 1    | 1         | 4        |             | Affiliation | 12/06/2012 11:17:44 | 12/06/2012 16:52 |
|   | 1    | 1    | 3         | 4        |             | Affiliation | 12/06/2012 11:17:38 | 12/06/2012 11:17 |
|   | 1    | 1    | 1         | 4        |             | Affiliation | 12/06/2012 11:17:33 | 12/06/2012 11:17 |
|   | 1    | 1    | 3         | 4        |             | Affiliation | 12/06/2012 11:17:25 | 12/06/2012 11:17 |
|   | 1    | 1    | 5         | 4        |             | Affiliation | 12/06/2012 11:17:12 | 12/06/2012 11:17 |
|   | 1    | 1    | 3         | 4        |             | Affiliation | 12/06/2012 10:50:47 | 12/06/2012 11:17 |
|   | 1    | 1    | 1         | 4        |             | Affiliation | 12/06/2012 10:50:24 | 12/06/2012 10:50 |
|   | 1    | 1    | 3         | 4        |             | Affiliation | 12/06/2012 10:50:05 | 12/06/2012 10:50 |
|   | 1    | 1    | 1         | 4        |             | Affiliation | 12/06/2012 10:49:25 | 12/06/2012 10:50 |
|   | 1    | 1    | 3         | 4        |             | Affiliation | 12/06/2012 10:45:29 | 12/06/2012 10:49 |

11 record(s) found.

**Figure 2.9** – Radio ID History Window

## IDs Node Menu

Right-click on the **IDs** node to see the IDs node menu. This menu contains the following options:

- **Import Radio IDs...:** Opens the *Alias Import Wizard* which allows you to import radio IDs. (See *Chapter 9: Importing Resources*)
- **Export Radio IDs ...:** Opens the *Alias Export* window which allows you to export your radio IDs. (See *Chapter 8: Exporting Resources*)
- **Add an ID:** Allows you to add a single radio ID without importing.
- **Show List...:** Shows a list of all radio IDs under the **IDs** node's system.

## Radio ID Search

When Alias loads, the **IDs** node under each system reads **IDs** (**Click here to search**). Click on the **IDs** node to show the **Radio ID Search** panel, shown in Figure 2.10.

**Radio ID Search**

This screen allows you to search for one or more Radio IDs. Blank text boxes are ignored. A partial search is performed on the value in text boxes. Lists with "-Any-" selected are ignored.

Radio/Dispatcher ID:

Radio ID Alias:

CADI Alias:

Serial Number:

Default Group:

**Basic** **Hardware**

Tag:

Location:

Agency:

Address:

Search results are broken into blocks of 200. Click on a link below to view a block.

[1](#)

**Figure 2.10** – Radio ID Search Panel

This panel allows you to enter search criteria for radio IDs. These criteria are described in the *ID Nodes* section above.

## Using the Radio ID Search Panel

Here are some things to remember when using this search panel:

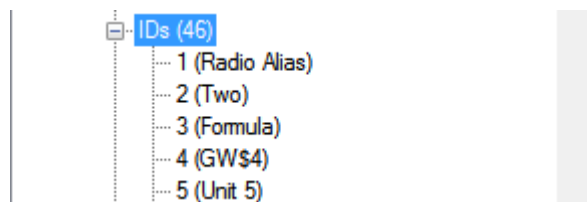
- For a radio ID to be included in the search results, it must satisfy all specified criteria. A text box criterion is specified if you type a value into its text box. A list box criterion is specified if you select an item in the list other than *-Any-*.
- A partial search is performed on all text box criteria (such as **Radio ID**, **Radio Alias**, etc.). If a radio ID *contains* the criteria, the radio ID will be included in the search results. This means that if you enter 3 in the **Radio ID**, the search may return radio IDs 3, 1003, 2003, 3003, etc. because these radios' IDs contain 3.
- Blank text box criteria are ignored in the search. If you leave **Radio Alias** blank, then **Radio Alias** is not considered in the search.
- An exact search is performed on all list box criteria (such as **Tag**, **Location**, **Agency**, etc.). If a radio ID has the exact specified list box criteria, the radio ID will be included in the search results.
- List boxes with *-Any-* selected are ignored in the search. If you select *-Any-* for **Tag**, then **Tag** is not considered in the search.
- Selecting a specific **Location** and selecting *-Any-* for **Agency** will return all radio IDs with an **Agency** under the selected **Location**.

## Radio ID Search Panel Buttons

This panel contains two buttons:

- **Search...:** Click this button to perform a radio ID search. This will add each radio ID that matches your search criteria to the **IDs** node.
- **Reset:** Click this button to reset all of the criteria in the **Radio ID Search** panel. All text boxes are cleared and all list box items are set to *-Any-*.

After each search, the **IDs** node will show the result of the search by displaying a number in parentheses. Figure 2.11 below shows a search that resulted in 46 radio IDs.



**Figure 2.11** – IDs Node after a Search

Each radio ID under the **IDs** node can be edited and deleted just like other Alias resources. Click on a radio ID node to show the **Radio ID Options** panel. Right-click on a radio ID node to see the **Delete this ID** option.

## Radio ID Search Results Blocks

When you perform a search, the **Radio ID Search** panel shows the results in search result blocks (See Figure 2.12 below).



**Figure 2.12** – Search Result Blocks

Each number in the list is a link to up to 200 radio IDs that matched your search criteria. By default, the **IDs** node is populated with the first block. Click on the block numbers to view the results in the other blocks. Hover over a block to get a radio ID and alias preview of the radio IDs in the block.

## Radio ID Search Panel Benefits

The benefits of searching for radio IDs are as follows:

- You do not have to sift through possibly thousands of radio IDs just to find the few that you wish to edit or delete.
- Your searches can represent work that you need to do on radio IDs, such as assigning an **Alias** to all radio IDs with an **Alias** like GW\$ (the default alias), or assigning a **Default Group** to all radio IDs with a **Default Group** of *None*.

## Zone Nodes

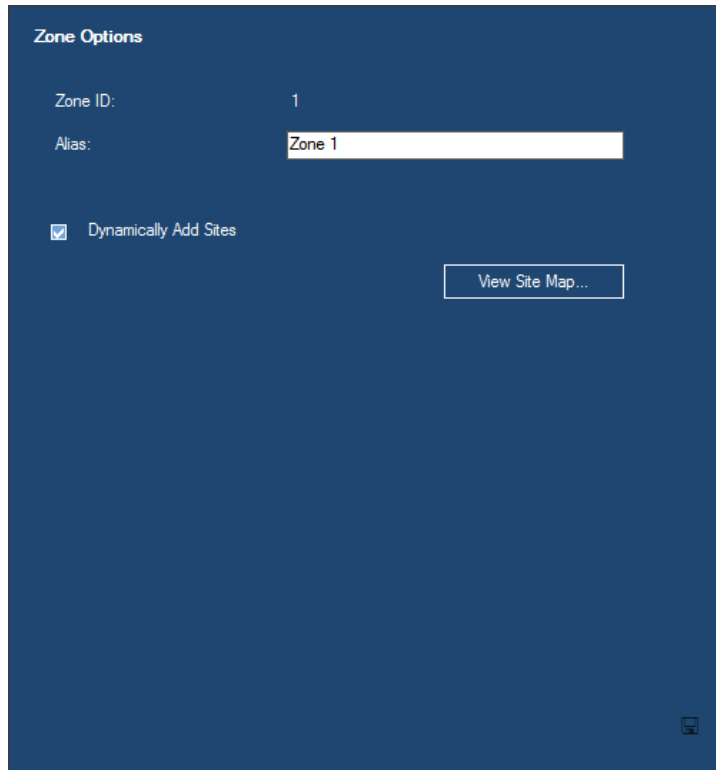
Each zone node represents a zone under its parent system. The zone ID is an arbitrary value; it is the value defined in the input module setup screen.

Click on a zone node to show the **Zone Options** panel (shown in Figure 2.13). This panel contains the following values:

- **Zone ID:** Numeric ID of this zone.
- **Alias:** Alias for this Zone.
- **Dynamically Add Sites:** When activity occurs on the zone, add the associated sites.
- **View Site Map...:** Shows a graphical representation of the sites under this zone. This requires **Latitude**, **Longitude** and **Coverage Radius** for each site.



Deleting a zone will cause all active diagnostics associated with that zone to be cleared. Clearing the alarms requires there to be a connection in the Trbo module responsible for the deleted zone; however, the connection does not have to be enabled.



**Figure 2.13** – Zone Options

## Zones Node Menu

Right-click on the **Zones** node to see the **Zones** node menu. This menu contains the following options:

- **Import Zones...:** Opens the *Alias Import Wizard*, which allows you to import zones. (See *Chapter 9: Importing Resources*)
- **Export Zones...:** Opens the *Alias Export* window, which allows you to export zones. (See *Chapter 8: Exporting Resources*)
- **Add a Zone:** Allows you to add a single zone without importing.
- **Show List...:** Shows a list of all zones under the **Zones** node's system.



## Site Nodes

In an RF control station or Capacity Plus connection, the site ID is an arbitrary identifier defined in the input module's GUI. IP Site Connect systems, however, can span multiple geographic locations; this is represented in Alias by each repeater being designated as a site. In an IPSC system, each repeater's peer ID will be used as a different Site ID. In Connect Plus systems, each site uses the site ID programmed into its controller.

Click on a site node to show the **Site Options** panel (shown in Figure 2.14). This panel contains the following values:

- **Site ID:** Numeric ID of this site.
- **Channel Key Type:** Indicates the key values used for channels under this site. The key values must be distinct and cannot be changed once added. Channel key type options include:
  - **Frequency:** Channel frequency is used as the key.
  - **Position:** Channel position is used as the key.
- **Alias:** Alias for this site.
- **Dynamically Add Channels:** When activity occurs on the site, add the associated channels.
- **Latitude:** Decimal latitude location of this site.
- **Longitude:** Decimal longitude location of this site.
- **Coverage Radius:** Estimated broadcast radius of this site (the longest radius of any direction from the site).



Deleting a site will cause all active diagnostics associated with that site to be cleared. Clearing the alarms requires there to be a connection in the Trbo module responsible for the deleted site; however, the connection does not have to be enabled.

**Site Options**

Site ID: 26

Channel Key Type: Position

Alias: PEER 26

Dynamically Add Channels

Latitude: 32.35124610 °

Longitude: -95.30108440 °

Coverage Radius: 1 mi.

**Figure 2.14** – Site Options

## Sites Node Menu

Right-click on the **Sites** node to see the **Sites** node menu. This menu contains the following options:

- **Import Sites...:** Opens the *Alias Import Wizard* which allows you to import sites. (See *Chapter 9: Importing Resources*.)
- **Export Sites...:** Opens the *Alias Export* window, which allows you to export sites. (See *Chapter 8: Exporting Resources*.)
- **Add a Site:** Allows you to add a single site without importing.
- **Show List...:** Shows a list of all sites under the **Sites** node's zone.

## Channel Nodes

Clicking on a channel node shows the **Channel Options** panel (shown in Figure 2.15). This panel contains the following values:

- **Channel Position:** The position of this channel. In a Capacity Plus or Connect Plus connection, the channel position is the peer ID of the repeater. An IP Site Connect system always uses a channel position of 1. An RF control station connection uses the position of the control station slot as set up in the Trbo GUI. (*This value is adjustable only if the parent site's Channel Key Type is Frequency.*) If activity is received from a channel with the same frequency as an existing channel but a different channel position, the position of the old channel will be updated to match the new activity on sites that have a channel key type of Frequency.
- **Alias:** Alias for this channel.
- **Tx Frequency:** The transmit frequency (in hertz) of this channel. (*This value is adjustable only if the parent site's Channel Key Type is Position.*) If activity is received from a channel with the same channel position as an existing channel but a different frequency, the frequency of the old channel will be updated to match the new activity on sites that have a channel key type of Position.
- **Rx Frequency:** The receive frequency (in hertz) of this channel. This value is used to match activity that reports a receive frequency to a channel. An example of such activity is an RSSI (Receive Signal Strength Indication) report from a power monitoring device.
- **RX/TX Board Position:** Board position (slot) for this channel in the Central Controller (also known as RIB/TIB). (not applicable to MOTOTRBO)
- **Tel. Repeater Board Position:** Telephone repeater board position (slot) for this channel in the Central Controller (also known as TRIB). (not applicable to MOTOTRBO)
- **Slot Count:** the number of slots used by this channel. This selection is used in calculating system usage statistics and some real-time displays. Values include One Slot, Two Slots and Four Slots.
- **Control Channel:** Check this option if this channel is a control channel.
- **Failsoft Channel:** Check this option if this channel is used for failsoft assignment. (not applicable to MOTOTRBO)
- **Voice Channel:** Check this option if this channel is a voice channel.
- **Data Channel:** Check this option if this channel is a data channel.
- **Data Revert Channel:** Check this option if this channel is a data revert channel.
- **Offline:** Check this option if this channel is not currently used on the site. This option allows you to add channels that you own that are not yet in use.

**Channel Options**

Channel Position: 2001

Alias: Repeater 2001

Tx Frequency: 462587500

Rx Frequency: 467587500

RX/TX Board Position: 0

Tel. Repeater Board Position: 0

Slot Count: Two Slots TDMA

Control Channel

Failsoft Channel

Voice Channel

Data Channel  Data Revert Channel

Offline

**Figure 2.15** – Channel Options



Channels are shown in order of your GW3-TRBO user's selected Channel Sort Preference. By default this is Channel Key, which means the channels are sorted based on the Channel Key Type of the channel's parent site. You can change your Channel Sort Preference via the File->Channel Sort Preference menu options.



Deleting a channel or clicking the **Update** button on a channel while the **Offline** option is checked will cause all active diagnostics associated with that channel position to be cleared. Clearing the alarms requires there to be a connection in the Trbo module responsible for the modified/deleted channel; however, the connection does not have to be enabled.

## Channels Node Menu

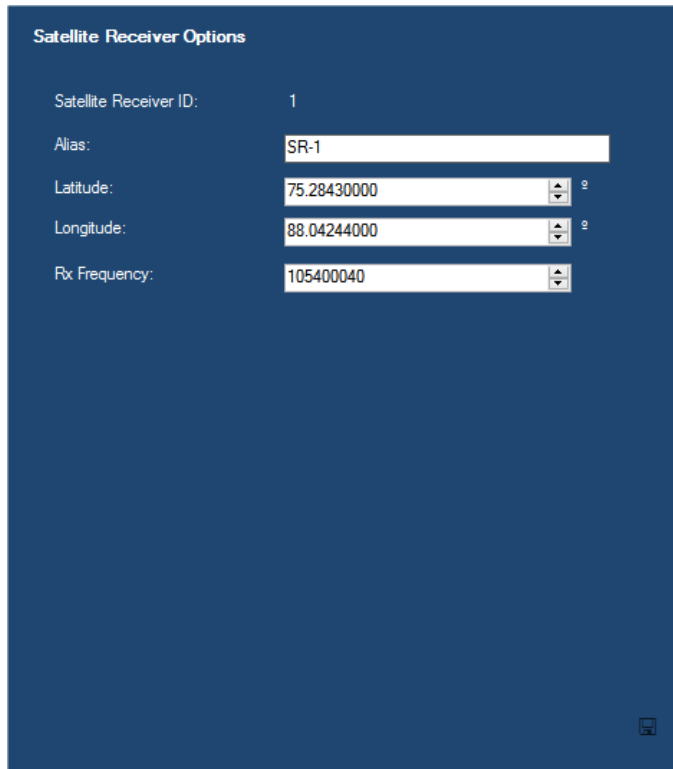
Right-click on the **Channels** node to see the **Channels** node menu. This menu contains the following options:

- **Import Channels...:** Opens the *Alias Import Wizard* which allows you to import channels. (See *Chapter 9: Importing Resources*.)
- **Export Channels...:** Opens the *Alias Export* window, which allows you to export channels. (See *Chapter 8: Exporting Resources*.)
- **Add a Channel:** Allows you to add a single channel without importing.
- **Show List...:** Shows a list of all sites under the **Channels** node's site.

## Satellite Receiver Nodes

Click on a site node to show the **Satellite Receiver Options** panel (shown in Figure 2.16). This panel contains the following values:

- **Satellite Receiver ID:** Numeric ID of this satellite receiver.
- **Alias:** Alias for this satellite receiver.
- **Latitude:** Decimal latitude location of this satellite receiver.
- **Longitude:** Decimal longitude location of this satellite receiver.
- **Rx Frequency:** The receive frequency (in hertz) of this satellite receiver. This may differ from the parent channel's receive frequency.



The image shows a dark blue panel titled "Satellite Receiver Options". It contains five rows of configuration fields:

| Field Name             | Value       |
|------------------------|-------------|
| Satellite Receiver ID: | 1           |
| Alias:                 | SR-1        |
| Latitude:              | 75.28430000 |
| Longitude:             | 88.04244000 |
| Rx Frequency:          | 105400040   |

**Figure 2.16** – Satellite Receiver Options

## Satellite Receivers Node Menu

Right-click on the **Satellite Receivers** node to see the **Satellite Receivers** node menu. This menu contains the following options:

- **Import Satellite Receivers...:** Opens the *Alias Import Wizard* which allows you to import satellite receivers. (See *Chapter 9: Importing Resources.*)
- **Export Satellite Receivers...:** Opens the *Alias Export* window, which allows you to export satellite receivers. (See *Chapter 8: Exporting Resources.*)
- **Add a Satellite Receiver:** Allows you to add a single satellite receiver without importing.
- **Show List...:** Shows a list of all satellite receivers under the **Satellite Receivers** node's channel.

### What are Tags?

Tags are categories that you can create and assign to radio IDs. Tags consist of the following values:

- **Name:** The name of the tag.
- **Play Sound File?** If checked, a sound file (.WAV format) is played when a radio ID with this tag appears in a Group module window.
- **Sound File Path:** The path and file name of the .WAV file to play when a radio ID with this tag appears in a Group module screen.

Tags can be used to supply additional information for a radio ID by providing a descriptive tag name. You can also associate a .WAV file to play when the radio ID appears on the Group GUI. These .WAV files are meant to get the attention of a GW3-TRBO user when activity is received from a particular radio ID. Practical applications include:

- Creating an *Abuser* tag with an audible alarm for when known system abusers issue activity.
- Creating a *Stolen* tag with an audible alarm for when known stolen radios issue activity.

The Tags created in the **Tag Options** panel (figure 3.1) are available via a drop-down list in the **Radio ID Options** panel (shown in Figure 2.8).

**Tag Options**

Name:

Play Sound File?

Sound File Path:

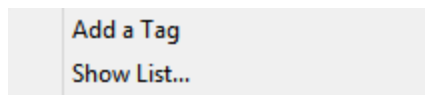
**Figure 3.1** – Tag Options



## Adding a Tag

To add a tag, take the following steps:

1. Right-click on the **Tags** node: This will show the tag options menu (shown in Figure 3.2).
2. Click the **Add a Tag** option.
3. Enter the tag name in the **Name** text box.
4. If you would like to play a file when the group or radio ID with this tag appears in a Group module window, check the **Play Sound File?** checkbox. This will enable the **Browse to Sound File** button.
5. Click on the **Browse for Sound File** button to, select the target .WAV file and click the **Open** button. This file path must be accessible to all GW3-TRBO clients or the file must exist in the same location on all client machines. For example, *C:\Sounds\Emergency.WAV* is an acceptable path if all GW3-TRBO client machines have this file path, while a file path of *\\GW3HOST1\C\$\Emergency.WAV* can be made accessible to all GW3-TRBO clients.
6. Click the **Update** button.



**Figure 3.2** – Tag Options menu

## Editing a Tag

To edit an existing tag, take the following steps:

1. Select the tag that you wish to edit by clicking on the tag in the tag list.
2. Change the tag properties that you wish to change.
3. Click on the **Update** button.

## Deleting a Tag

To delete an existing tag, take the following steps:

1. Select the tag that you wish to delete by clicking on the tag in the tag list.
2. Right-click; click the **Delete this Tag** button (shown in Figure 3.3): This will result in a confirmation prompt.
3. Click the **Yes** button to delete the tag and clear all references to the tag.



**Figure 3.3** – Single Tag Options menu



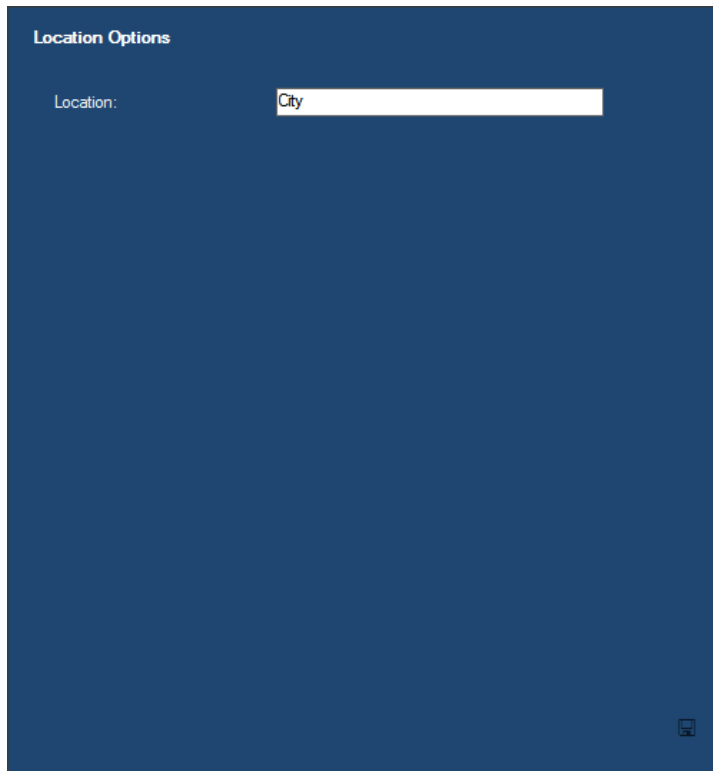
### What are Locations?

Locations represent geographical boundaries. Locations include cities, states, counties, parishes, campuses, etc. GW3-TRBO uses locations in conjunction with agencies to associate groups and radio IDs to agencies. This relationship allows you to easily create reports for groups and/or radio IDs under one or more agencies.

Locations consist of a single property:

- **Location:** The name of the location.

The locations created in the **Location Options** panel (shown in Figure 4.1) are available via a dropdown list in the **Talkgroup Options** and **Radio IDs Options** panels. In these panels, selecting a **Location** will populate the **Agency** dropdown list with all agencies under the selected location.



**Figure 4.1** – Location Options

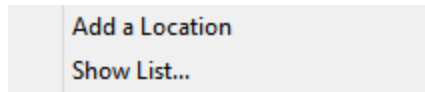
Practical applications include:

- Location for your system's city or cities (i.e. City of Tyler).
- Location for your system's county or counties (i.e. Smith County).

## ***Adding a Location***

To add a location, take the following steps:

1. Right-click on the **Locations** node: This will show the Location Options menu (shown in Figure 4.2).
2. Click the **Add a Location** Option.
3. Enter the location name in the **Location** text box.
4. Click the **Update** button.



**Figure 4.2** – Location Options menu

## ***Editing a Location***

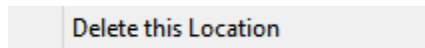
To edit an existing location, take the following steps:

1. Select the location that you wish to edit by clicking on the location's node in the resource tree.
2. Change the location name.
3. Click on the **Update** button.

## ***Deleting a Location***

To delete an existing location and all agencies under the location, take the following steps:

1. Right-click on the location that you wish to delete.
2. Click the **Delete this Location** Option (shown in Figure 4.3): This will result in a confirmation prompt.
3. Click **Yes** to delete the location and clear all references to the location.



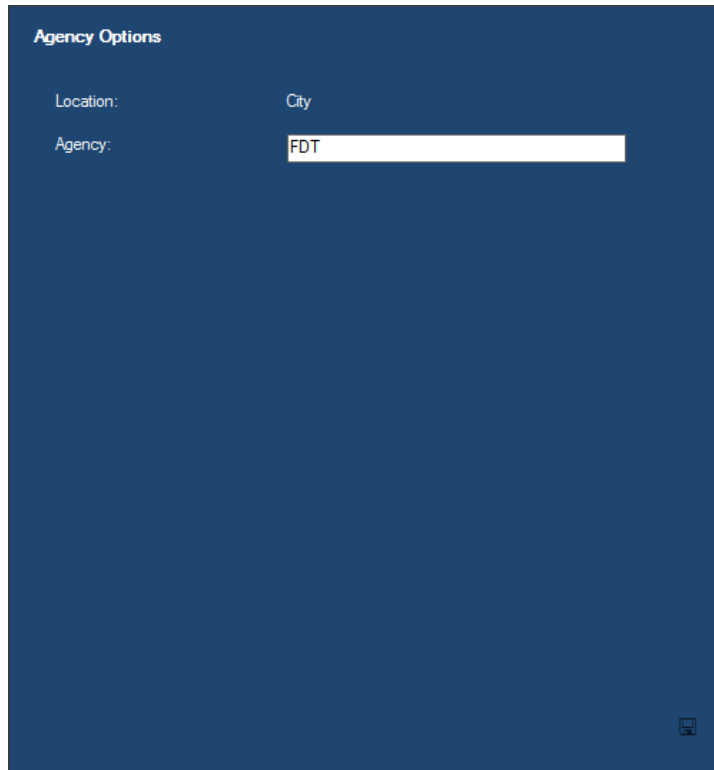
**Figure 4.3** – Single Location Options menu

### What are Agencies?

Agencies are subcategories of locations that you can create and assign to groups and radio IDs. Agencies exist within the geographic boundary defined by their Locations. Agencies include Police, Fire, Game Warden, etc. GW3-TRBO uses agencies in conjunction with locations to associate groups and radio IDs to agencies. This relationship allows you to create reports easily for groups and/or radio IDs under one or more agencies. Agencies consist of the following properties:

- **Location:** The name of the agency's location.
- **Agency:** The name of the agency.

The agencies created in the **Agency Options** panel (shown in Figure 5.1) are available via a dropdown list in the **Talkgroup Options** and **Radio IDs Options** panels. After you select a location from the **Location** dropdown list, the **Agency** dropdown list contains a list of agencies that exist under the selected location.



**Figure 5.1** – Agency Options

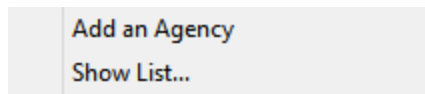
Practical applications include:

- Agency for the police departments within your system’s city or cities (i.e. Tyler PD or Jacksonville PD).
- Agency for the sheriff’s departments within your system’s county or counties (i.e. Smith County Sheriff or Rusk County Sheriff).

## ***Adding an Agency***

To add an agency, take the following steps:

1. Right-click on the **Agencies** node under the desired location: This will show the Agency Options menu (shown in Figure 5.2).
2. Click the **Add and Agency** option.
3. Enter the agency name in the **Agency** text box.
4. Click the **Update** button.



**Figure 5.2** – Agency Options menu

## ***Editing an Agency***

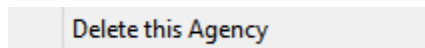
To edit an existing agency, take the following steps:

1. Select the agency that you wish to edit by clicking on the agency’s node in the resource tree.
2. Change the agency name.
3. Click on the **Update** button.

## ***Deleting an Agency***

To delete an existing agency, take the following steps:

1. Right-click on the agency that you wish to delete.
2. Click the **Delete this Agency** button (shown in Figure 5.3): This will result in a confirmation prompt.
3. Click **Yes** to delete the agency and clear all references to the agency.



**Figure 5.3** – Single Agency Options menu

The following advanced features are included in Alias:

- **Value Changed Indication:** When you change a resource's value (such as the **Alias** of a radio ID), the input control becomes **orange** until you select a different resource or press the **Update** button.
- **Multiselect:** This feature allows you to choose more than one resource of a particular type. This allows you to edit multiple resources simultaneously.
- **Value Differs Indication:** When you perform multiselect in Alias, you may notice an **orange** value label. This is an indication that this value differs among at least two of the selected resources.

### Value Changed Indication

Alias uses the value changed indication to remind you of the values you have changed while adding or editing a resource. This is shown by changing the background color of the edit control to **orange**. In Figure 6.1, notice the edit controls for **Serial Number**, **Default Group**, **Foreground Color**, **Background color**, **Location**, **Agency** and **Address** show the value changed indication.

The screenshot shows a form titled "Radio ID Options" with a dark blue background. The form contains several input fields and a sub-section. The "Radio/Dispatcher ID" field has the value "1". The "Alias" field has the value "GW\$1". The "CADI Alias" field is empty. The "Serial Number" field has the value "454346" and is highlighted in orange. The "Default Group" field has the value "3 (EMT)" and is highlighted in orange. The "Foreground Color" field has a color picker with a black swatch and a small orange swatch. The "Background Color" field has a color picker with a black swatch and a small orange swatch. Below these fields is a sub-section with two tabs: "Basic" and "Hardware". The "Basic" tab is selected. It contains four fields: "Tag" with a dropdown menu showing "-None-", "Location" with a dropdown menu showing "-None-", "Agency" with a dropdown menu showing "-None-", and "Address" with the value "123 Anywhere" and is highlighted in orange. At the bottom right of the form, there is a "History" button with a magnifying glass icon and a small orange icon.

**Figure 6.1** – Value Changed Indication in Radio ID Options



The drop down box controls will not turn **orange** when a change is made, the items within the drop down will change to **orange**

## Multiselect

Imagine a scenario where you just added 12 new radio IDs for one of your agencies. Now that you have added them you would like to assign the same **Location**, **Agency**, and **Address** to each of these radio IDs. This is a good time to use the multiselect option. You can select multiple resources in two ways:

### Shift + Left Click

This selection method selects all resources in a range:

1. Left-click the first resource in the range of resources you wish to select.
2. While holding the **Shift** key, click the last resource in the range of resources you wish to select.

### Ctrl + Left Click

This selection method adds a resource to the selected resources or removes a selected resource from the selected resources.

1. While holding the **Ctrl** key, left-click a selected resource.
2. This will toggle the selection of the clicked resource.

The screenshot shows a 'Radio ID Options' dialog box with a dark blue background. It contains several input fields and dropdown menus. The 'Radio/Dispatcher ID' field is labeled '(Multiple)'. Below it are 'Alias:', 'CADI Alias:', and 'Serial Number:' fields, all labeled '(Multiple)'. The 'Default Group:' field has a dropdown menu with a '-' button. The 'Foreground Color:' field has a color picker showing black and a '-' button. The 'Background Color:' field has a color picker showing white and a '-' button, with a text box containing '123456789'. Below these are two tabs: 'Basic' and 'Hardware'. The 'Basic' tab is active and contains three dropdown menus for 'Tag:', 'Location:', and 'Agency:', all with '-None-' selected. Below these is an 'Address:' text field. At the bottom right, there is a 'History' button with a magnifying glass icon and a small square icon.

**Figure 6.2** – Multiselect on Radio IDs



Notice in Figure 6.2 some of the radio ID options are disabled and show **(Multiple)**. These values cannot be edited in multiselect mode because they are distinct and cannot be changed to a value common to any other resource. Also notice that some of the labels are **orange**. This feature is the *value differs indication* described in the next section.

When in multiselect mode, you can change one or more values of a resource. When you choose to update your changes, Alias will apply each **changed** value to each selected resource. In the above image, if we changed the **Background Color** to red and press **Update**, the **Background Color** on all five selected resources will be updated to red, but no other properties will be updated. When the update is complete, the **Background Color** label would no longer be **orange**.

### **Value Differs Indication**

Referring to Figure 6.2 above, notice the **Background Color**, **Location** and **Agency** labels are **orange**. This indicates that these values differ among at least two of the selected resources. The value shown is the default value (the value used for new resources of this type). The default value may or may not be the value assigned to one of the selected resources.



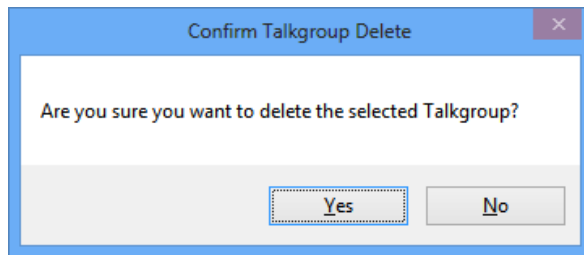
The Alias GUI allows you to delete existing resources from the **Resources** Tree. When a parent resource is deleted, its child resources are also deleted. So if you delete a system resource, the radio IDs, groups, etc. under the system are deleted.

Take the following steps to delete a resource:

1. Right-click on the resource that you wish to delete.
2. Click the **Delete** option: This will result in a confirmation dialog box (see Figure 7.1).
3. Click **Yes** to delete the resource. Click **No** to not delete the resource.



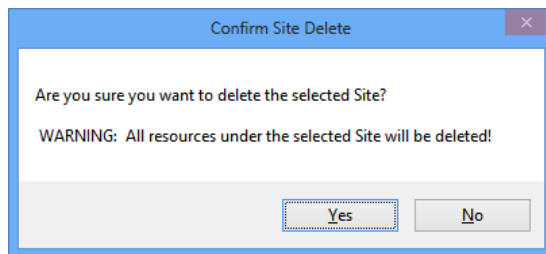
You can also perform a multiselect delete by selecting multiple resource, right-clicking, and choosing the delete option.



**Figure 7.1** – Delete Confirmation Dialog



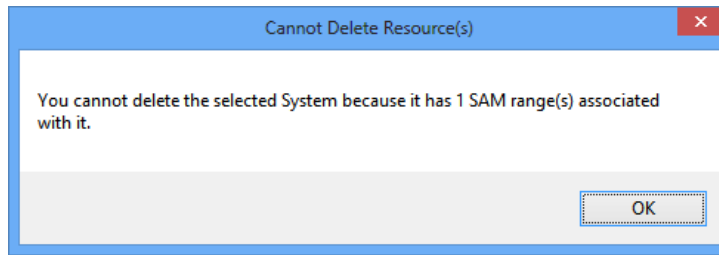
If the node is a parent node, Alias warns you that this will result in the deletion of the resource's child resources (the node's child nodes). Click **Yes** to delete. Click **No** to not delete. (see figure 7.2)



**Figure 7.2** – Delete Parent Confirmation Dialog



If you delete a resource and the resource's parent is set to dynamically add child resources, the resource will re-appear in the list. For example, if in system 1404, you have the option to dynamically add groups and you delete group 35, the group will be re-added the next time it creates activity on the system. You will see it in the resource tree the next time you click the **Refresh** button.



**Figure 7.3** – Attempting to remove a system with SAM ranges



Attempting to delete a system that has ranges associated with it in SAM results in a message stating the resource cannot be removed (Fig 7.3). The range(s) of the system must be removed from SAM before the system can be deleted from Alias.

### ***What is Exporting?***

Exporting is the process of writing resources to a file. The Alias GUI allows you to export the following resources:

- Multigroups
- Talkgroups
- Radio IDs
- Zones
- Sites
- Channels
- Satellite Receivers

Alias exports each resource type into CSV (comma-separated value) format files. This means that each value is separated by a comma, and each row ends in a carriage-return & line feed (Enter).

### ***Why Would I want to Export Resources?***

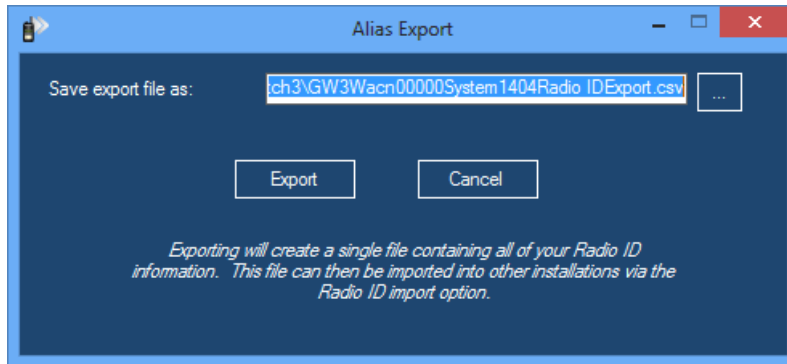
You may wish to export resources for the following reasons:

- To keep outside records of your current Alias database, just in case you ever need to reload it.
- To import this information into a redundant GW3-TRBO installation.
- To create an inventory spreadsheet with all of your group and radio ID resources.

## Exporting Resources

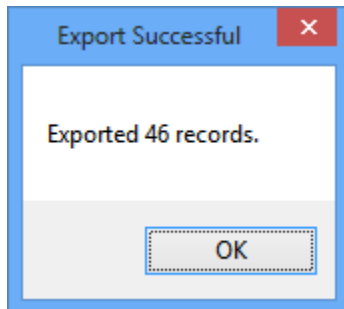
To export group or radio ID resources, take the following steps:

1. Expand the system node that contains the resources you wish to export.
2. Right-click on the parent node of the resource type that you wish to export. (**Talkgroups**, or **IDs**): This will show the resource menu, including the export option (such as **Export Talkgroups...**).
3. Click the export option: This will load the *Alias Export* window (shown in Figure 8.1). Notice that Alias automatically creates a file name for you. This file name contains the System ID of the resources and the resource type.



**Figure 8.1** – Alias Export Window

4. Verify/Change the **Save export file as** path and file name.
5. Click the **Export** button: This will show the progress of the export process. Once the process completes, you will see an *Export Successful* dialog showing how many records were exported (as shown in Figure 8.2).



**Figure 8.2** – Export Successful dialog

6. Click **OK**: You will find your export file in the location specified in step 4.



If the export file specified in step 4 already exists, *Alias Export* will replace it with the new export.

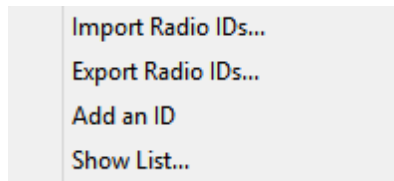
### What is Importing?

Importing is the process of reading in resources from a file. The Alias interface allows you to import the following resources:

- Systems (from License only)
- Radio IDs
- Multigroups
- Talkgroups
- Zones
- Sites
- Channels
- Satellite Receivers

Import files must be in a delimited text format. Delimiters include comma, semicolon, space or tab. Each value must be separated by a delimiter, and each row must end in a carriage-return & line feed (Enter). Microsoft Excel is a great tool for creating delimited files, as is the Motorola console ADM (Alias Database Manager).

Sections *Resource Import Columns* and *Numeric Enumerations for Resource Columns* in this document contain useful information for creating and importing files.



**Figure 9.1** – Import Radio IDs Option

### Launching the Alias Import Wizard

Values are imported under their parent resource. To load the *Alias Import Wizard* for talkgroup import:

1. Right-click on the desired system for these groups in the resource tree:  
This will show the talkgroup options menu.
2. Choose the **Import Talkgroups...** option: This will load the *Alias Import Wizard* for talkgroup import.

## Using the Alias Import Wizard

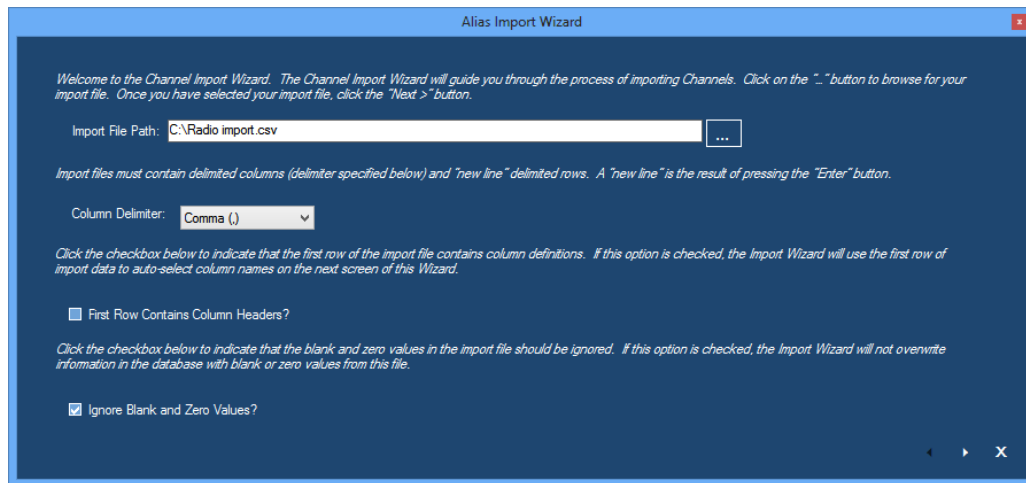
The *Alias Import Wizard* takes you step-by-step through the import process. The text at the top (below the title) of screen 1 shows which resource type you are currently importing. On this screen (Figure 9.2), you must:

1. Browse to or type in the path for your import file.
2. Choose the column delimiter. This option tells the importer how values are separated in the import file. Options include:
  - Comma (,)
  - Semicolon (;)
  - Space
  - Tab



Values cannot contain the column delimiter. If a value in a row contains the specified delimiter, the row will be skipped and reported as failed by the **Alias Import Wizard**.

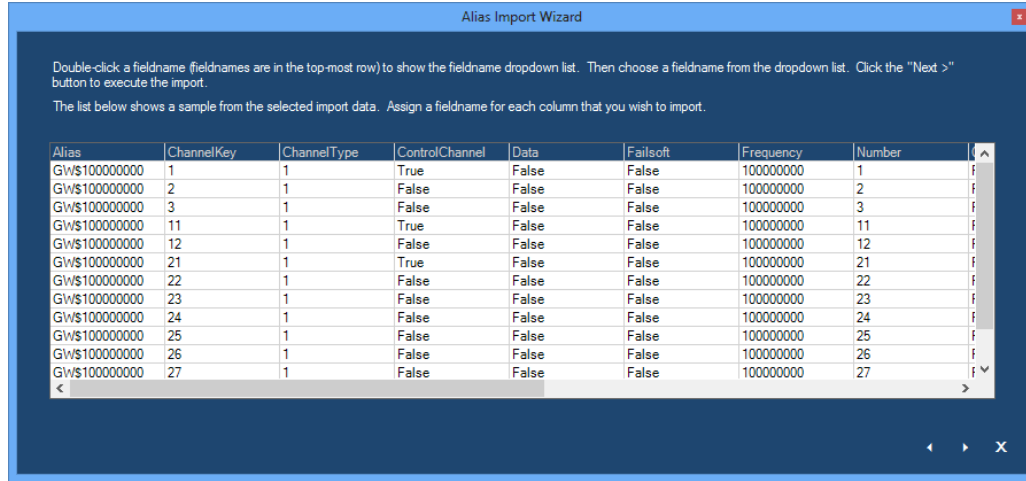
3. If the import file contains column headers in the first row, click the **First Row Contains Column Headers?** checkbox.
4. If the import file contains entries that are blank or zero you may check this option to ignore those. This will prevent the import from overwriting the existing values with blanks for records that are being updated.



**Figure 9.2** – Alias Import Wizard (Screen 1)



4. Click the **Next >** button. This will show screen 2 (Figure 9.3).



**Figure 9.3** – Alias Import Wizard (Screen 2)

Screen 2 is where the real magic happens. This screen loads a preview of the import file that you selected on screen 1 into its data grid. Each column header contains the text (*Ignore this Column*). If your file contains column headers, the *Alias Import Wizard* will select these column headers for you.

The column headers are actually drop-down lists. Double-click on a column header to show the drop-down list. This drop-down list contains an entry for each import column in the database table that you are importing to. On this screen you must:

1. Assign an import database table column name to each column of data that you wish to import. To do this, double-click on the column header and choose a name.
2. Click the **Next >** button: This will load screen 3, show the progress panel and begin the import process.



## ***Things to remember about importing***

Valid ranges for radio IDs and groups are listed in Table 1.1.

When importing radio ID and Group, only IDs and Groups within the valid ranges listed in Table 1.1 will successfully import.

The *Alias Import Wizard* will create the following resources if they are mentioned in the import but do not exist in the GW3-TRBO Alias database:

- Tags
- Locations
- Agencies
- Zones (only during a system-level channel import)
- Sites (only during a system-level channel import)

The above resources added during import will have only default properties.

## Resource Import Columns

The following tables contain the columns that GW3-TRBO considers for import and includes in its export. Of these, only the Talkgroup, Multigroup and Radio ID resources are exportable.



For Text columns, the number listed next to the word Text below indicates the maximum size of that column. During an import, values larger than the maximum will be truncated to the maximum.

## System

| Name       | Type                    | Description                     |
|------------|-------------------------|---------------------------------|
| Alias      | Text(200)               | The Alias of the System         |
| Band       | System Band enumeration | System Band                     |
| ID         | Text(5)                 | 4-5 digit Hexadecimal System ID |
| SystemType | System Type enumeration | Base system type                |



Systems are imported from your license.

## Zone

| Name          | Type                                       | Description   |
|---------------|--|---|
| AddChildSites | Boolean                                    | Add sites, used on this zone, as they are mentioned on the control channel? |
| Alias         | Text(200)                                  | The Alias of the zone   |
| ID            | Required for import - Number(1-16,777,215) | ID of the zone  |

## Site

| Name             | Type                                       | Description  |
|------------------|--|--|
| AddChildChannels | Boolean                                    | Add channels, used on this site, as they are mentioned on the control channel? |
| Alias            | Text(200)                                  | The Alias of the site  |
| ChannelKeyType   | ChannelKeyType enumeration                 | The key type of the channels under this site.                                  |
| Coverage Radius  | Number(0-500)                              | The coverage radius of the site in miles                                       |
| ID               | Required for import - Number(1-16,777,215) | ID of the site   |
| Latitude         | Number(-90-90)                             | Latitudinal coordinate of the site   |
| Longitude        | Number(-180-180)                           | Longitudinal coordinate of the site  |

## Channel

| Name            | Type  | Description  |
|-----------------|---|--|
| Alias           | Text(200)   | The Alias of the channel   |
| *ChannelKeyType | ChannelKeyType enumeration                            | The key type of the channels under this site.  |
| ControlChannel  | Boolean(1=true,0=false)                               | Is this a control channel frequency? (applicable in future versions of MOTOTRBO.)        |
| Data            | Boolean(1=true,0=false)                               | Is this a data frequency?  |
| Failsoft        | Boolean(1=true,0=false)                               | Is this a failsoft frequency? (applicable in future versions of MOTOTRBO.)               |
| Frequency       | Required for import - Number(100,000,000-999,999,999) | Transmit frequency in Hz   |
| RxFrequency     | Number(100,000,000-999,999,999)                       | Receive frequency in Hz  |
| Number          | Number(0-16,777,215)                                  | Channel position in the channel rack   |
| Offline         | Boolean(1=true,0=false)                               | This frequency is not currently in use and is available for allocation?                  |
| RIBTIB          | Number(0-128)   | RX/TX Interface board position. (applicable in future versions of MOTOTRBO)              |
| *SiteID         | Number(1-16,777,215)                                  | ID of the channel's site   |
| Slot Count      | Number(1, 2, or 4)                                    | Number of slots on the channel.  |
| TRIB            | Number(0-128)   | Telephone Repeater interface board position. (applicable in future versions of MOTOTRBO) |
| Voice           | Boolean(1=true,0=false)                               | Is this a voice-capable frequency?   |
| *ZoneID         | Number(1-2,147,483,647)                               | ID of the zone which contains the channel's site   |

\* - These columns are only available when importing channels at the system level

## Satellite Receiver

| <b>Name</b> | <b>Type</b>                                | <b>Description</b>                                |
|-------------|--|---|
| Alias       | Text(200)                                  | The Alias of the satellite receiver               |
| ID          | Required for import - Number(1-16,777,215) | ID of the satellite receiver                      |
| Latitude    | Number(-90-90)                             | Latitudinal coordinate of the satellite receiver  |
| Longitude   | Number(-180-180)                           | Longitudinal coordinate of the satellite receiver |
| RxFrequency | Number(100,000,000-999,999,999)            | Receive frequency in Hz                           |

## Radio ID

| Name           | Type                          | Description   |
|----------------|-------------------------------|---|
| Address        | Text(250)                     | Physical address or any other helpful information about the radio. (blank for none)       |
| Agency         | Text(200)                     | Agency this radio belongs to (blank for none). You must also specify a Location.          |
| Alias          | Text(200)                     | The Alias of the radio  |
| Band           | Band enumeration              | Operating band of the radio   |
| CADIAlias      | Text(8)                       | Alias used by CADI (blank for none) (applicable in future versions of MOTOTRBO)           |
| DefaultGroup   | Text(8)                       | The home group of the radio (blank for none). Same as DisplayID in the Group table below. |
| DisplayID      | Required for import - Text(8) | The numeric ID of the radio   |
| Location       | Text(200)                     | Geographic location of the Agency (Blank for none). You must also specify an Agency.      |
| ModulationType | ModulationType enumeration    | Radio modulation type   |
| SecurityType   | SecurityType enumeration      | Security programming of the radio   |
| SerialNumber   | Text(50)                      | Serial number of the radio (Blank for none)   |
| Tag            | Text(50)                      | Tag to associate with this radio ID (Blank for none)                                      |



## Multigroup/Talkgroup

| Name           | Type                          | Description  |
|----------------|-------------------------------|--|
| Agency         | Text(200)                     | Agency this group belongs to (blank for none). You must also specify a Location.     |
| Alias          | Text(200)                     | The Alias of the group   |
| Band           | Band enumeration              | Operating band of the group  |
| CADIAlias      | Text(12)                      | Alias used by CADI (blank for none) (applicable in future versions of MOTOTRBO)      |
| DisplayID      | Required for Import - Text(8) | The numeric ID of the group  |
| Location       | Text(200)                     | Geographic location of the Agency (Blank for none). You must also specify an Agency. |
| ModulationType | ModulationType enumeration    | Group modulation type  |
| SecurityType   | SecurityType enumeration      | Security programming of the group  |

## ***Numeric Enumerations for Resource Columns***

Some import columns require an enumeration (numeric representation of a value). If you see a column with one of the following names, the numeric value will be expected during import.

### *Band*

0. Unknown
1. Not supported in TRBO
2. Not supported in TRBO
3. Not supported in TRBO
4. Not supported in TRBO
5. 900 MHz
6. UHF
7. VHF
8. Not supported in TRBO
9. Not supported in TRBO
10. Not supported in TRBO
11. Not supported in TRBO
12. Not supported in TRBO
13. Not supported in TRBO
14. Not supported in TRBO
15. Not supported in TRBO
16. Not supported in TRBO
17. 800 MHz

### *Channel Key Type*

0. Unknown
1. Frequency
2. Position

### *Security Type*

0. Unknown
1. Clear
2. Coded
3. Mixed

### *Modulation Type*

0. Unknown
1. Analog
2. Digital

*System Band*

1. 800 MHz
2. 900 MHz
3. OBT
4. Not supported in TRBO
5. Not supported in TRBO

*System Type*

3. Not supported in TRBO
4. Not supported in TRBO
5. TRBO
6. Not supported in TRBO
7. Not supported in TRBO