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About this Manual

Goals
This manual describes the role and function of the GW_SAM module in the GenWatch3 solution.

Who Should Read This Manual?
This manual is written for the intended audience of novice to mid-level trunked radio system users and novice to mid-level PC users.

How This Manual Is Organized
This manual is organized as follows:

- **Overview**: Describes the GW_SAM module and provides a brief overview of its function.
- **Setting up GW_SAM**: Describes how to set up GW_SAM resource ID ranges and schedules.
- **Using GW_SAM**: This chapter describes how to use GW_SAM to monitor suspect activities.

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.
This chapter describes the GW_SAM module and provides a brief overview of its function.

This chapter contains the following sections:
- **What is GW_SAM?**: Defines the GW_SAM module and GUI (Graphical User Interface).
- **What is a Suspect?**: Describes how GW_SAM identifies suspects.

**What is GW_SAM?**

The GW_SAM module monitors resources (groups and radios) for suspicious activity. Suspect resources are added to a list where the suspect's activities are then displayed and recorded in detail.

When an activity (push-to-talk, affiliation, etc.) is received on a group or radio ID (also known as resources), this activity is validated against the resource ranges defined within the GW_SAM GUI. If the activity of the resource violates the expected activity definitions, the resource is added to the Suspect List. Once in the Suspect List, the resource’s activity is closely monitored and detailed in the GW_SAM database.

**Figure 1.1 – GW_SAM GUI**
The Options menu contains the Exempt Suspects… button. This will display the Suspect Exemption List.

What is a Suspect?

A suspect is a resource (radio ID or group) that breaks a predefined rule of expected behavior. The following rules are enforced within GW_SAM:

- **Usage outside of the predefined schedule of usage**: This rule is applied when you set up a GW_SAM schedule (described in Chapter 2 – Setting Up GW_SAM) and assign that schedule to a radio ID. If usage is detected outside of the schedule, GW_SAM adds the radio ID to the Suspect List with a confidence level of 100%.

- **Usage of a resource that is in an unassigned or unallocated resource range**: This rule is applied when you assign a validity level of Unassigned or Unallocated to a resource range (described in Chapter 2 – Setting Up GW_SAM). If usage is detected on one of these resources, GW_SAM adds the resource to the Suspect List with a confidence level of 100%.

- **Usage of a service that is not selected when services are restricted**: This rule is applied to radio ID resource ranges when you select the Allow Only the Following Services option (described in Chapter 2 – Setting Up GW_SAM). Services are radio features such as dispatch, private, status, message, etc. GW_SAM validates each activity that is detected for radio IDs in this range against the selected services. If a radio ID in the range uses a service outside of the selected services, then GW_SAM adds this radio ID to the Suspect List with a confidence level of 100%.

- **Overlapping calls**: This rule is applied to conversations that occur on radio IDs. If a conversation for a radio ID on a given group overlaps with a conversation for the same radio ID on a different group, GW_SAM adds the radio ID to the suspect list. If there is a partial overlap, the confidence level is 75%. If there is a full overlap, the confidence level is 100%. This rule ignores patch, multiselect, and multigroup calls.

- **Impossible Driving Distance (IDD) activity**: This rule is applied only to multisite data and requires latitudinal and longitudinal coordinates set up in the GW_Alias module for each site on the system(s) monitored by GenWatch3. Each time the source site for a radio ID changes, this rule looks at the current activity time and the last activity time. If the speed required to travel between the coverage areas of the two sites within that time frame exceeds the defined IDD threshold, GW_SAM adds the radio ID involved in the activity to the Suspect List.

- **Rapid Affiliation**: This rule is applied when a radio issues an affiliation activity (usually when a radio is turned on), switches groups or responds to a dispatcher issuing a radio check. Each system has an expected number of affiliations received from a radio for these events. If more than that number of affiliations is received, there may be two radios with the same ID.
Chapter 2  Setting Up GW_SAM

This chapter describes how to set up GW_SAM resource ID ranges and schedules.

This chapter contains the following sections:

- **Resources & ID Ranges Tree**: Describes the Resources and ID Ranges tree.
- **Managing Schedules**: Describes how to create and manage schedules.
- **Managing Resource ID Ranges**: Describes how to manage resource ID ranges.

**Resources and ID Ranges Tree**

The Resources and ID Ranges tree contains each schedule and resource ID range that you define within the GW_SAM GUI. The ID ranges are organized by system and even further by resource ID range type (radio ID or talkgroup). Using the Resources and ID Ranges tree, you can easily add, edit, delete or view schedules and resource ID ranges.

![Resources and ID Range Tree](image)

**Figure 2.1** – Resources and ID Ranges tree

**Resource ID Range**: A range of groups or radio IDs, such as radio IDs 1 through 4.
Managing Schedules

GW_SAM schedules are weekly plans of expected (allowed) usage for a radio ID on the system. Once you create a schedule, you can apply it to any radio ID range that you wish to restrict to this schedule. Any radio ID that violates its schedule is reported as a suspect within the Suspect List.

Some common examples of schedules are day shift and night shift, where day shift is from 6:00 AM to 6:00 PM and night shift is from 6:00 PM to 6:00 AM.

Managing Schedules

You can add, update, delete and copy schedules using the buttons below the Resources and ID Ranges tree or by right-clicking on the root schedules node or a schedule node below the root schedules node. Schedules are displayed and edited within the Add/Edit Schedule window (Figure 2.2).

Figure 2.2 – Add/Edit Schedule Window
Adding a Schedule
To add a new schedule, take the following steps:
1. Click the root schedules node in the Resources and ID Ranges tree. This will enable the Add button below the Resources and ID Ranges tree if it is not already enabled.

![Schedules](image)

**Figure 2.3** – Root Schedules Node

2. Click the Add button below the Resources and ID Ranges tree or right-click the Schedules node and choose Add a New Schedule… from the menu. Either of these actions will load the Add/Edit Schedule window.
3. Type a name in the Name text box to describe the schedule. This name should describe the schedule, such as “Night Shift,” “Day Shift,” etc.
4. Check the Ignore Affiliations/Deaffiliations checkbox to ignore affiliations and deaffiliations that occur outside of the scheduled times.
5. In the date and time grid, select each 30-minute period that the unit is allowed usage on. To select a 30-minute period, double-click on the period (cell). To select an entire day, double-click on the day (top of each column). To select a 30-minute period across all days, double-click the time (left-most column). To clear all selected periods, double-click on the upper-left cell of the grid.
6. When you are finished selecting time periods, click the OK button. This will close the Add/Edit Schedule window and return you to the GW_SAM main window. Notice that your new schedule now appears in the Resources and ID Ranges tree.

Editing a Schedule
To edit an existing schedule, take the following steps:
1. In the Resources and ID Ranges tree, select the schedule that you wish to edit. This will enable the Edit button if it is not already enabled.
2. Click the Edit button (Figure 1.1) or right-click on the schedule in the Resources and ID Ranges tree and choose Edit… from the resulting menu, or double-click the range in the tree. This will load the Add/Edit Schedule window.
3. Make the desired changes to the schedule.
4. Press the OK button to save your changes or press the Cancel button to abort the changes. Either of these actions will return you to the GW_SAM GUI.

Deleting a Schedule
To delete a schedule, take the following steps:
1. In the Resources and ID Ranges tree, select the schedule that you wish to delete. This will enable the Delete button if it is not already enabled.
2. Click the **Delete** button, or right-click on the schedule in the **Resources and ID Ranges** tree and choose **Delete...** from the resulting menu. This will result in a confirmation window.

3. Choose **Yes** to delete the selected schedule.

**Copying a Schedule**

Sometimes you may want to create a new schedule that is similar to an existing schedule. The **Copy** function is made to help save time in this process. To copy an existing schedule, take the following steps:

1. In the **Resources and ID Ranges** tree, select the schedule that you wish to copy.

2. Right-click on the selected schedule. This will open a context menu.

3. Click the **Copy** option from the menu. This will create a copy of the selected schedule. You will now see a schedule in the **Resources and ID Ranges** tree with the text “(1)” This schedule is the resulting copy of the selected schedule.

4. Edit the newly copied schedule. (See **Editing a Schedule** above).

**Managing Resource ID Ranges**

A resource ID range is a number range of IDs that share the same set of GW_SAM rules. A common example is even group IDs. Many systems only allow usage on odd-numbered group IDs. For these systems, when activity is detected on an even-numbered group, the activity is the result of a rogue user or incorrect programming. To monitor activity on even-numbered group IDs with GW_SAM, you need only set up one Resource ID Range for all even group IDs in the range 2-65534. This ID range will be ‘Unallocated’ (meaning that they are not provisioned on the system) or ‘Unassigned’ (meaning that they are provisioned on the system, but not for use).

**Resource ID Range Rules**

Below is a list of rules regarding resource ID ranges:

- ID values cannot overlap within a resource ID range type. For example, you cannot have a range of groups from 2 through 10 and a range of groups from 5 through 21. An exception to this is if the range from 2 through 10 contains even numbers only and the range from 5 to 21 contains odd numbers only. In this case the ranges do not truly overlap, because they do not share a number within the ranges. GW_SAM will not allow you to create overlapping resource ID ranges.

- Odd number ranges must begin and end with odd numbers, and even number ranges must begin and end with even numbers.
Adding Talkgroup ID Ranges

To add a talkgroup ID range, take the following steps:

1. In the Resources and ID Ranges tree, click on the Talkgroup Ranges entry that you wish to have as the parent of the new talkgroup ID range. This will enable the Add button if it is not already enabled.

2. Click the Add button under the Resources and ID Ranges tree, or right-click the Talkgroup Ranges node and choose Add a New Talkgroup ID Range… from the menu. This will load the Add / Edit ID Range window. (Figure 2.4). The WACN ID, system ID and type values are provided based on the Resources and ID Ranges tree entry that you had selected when you pressed the Add button. These values cannot be changed.

3. Enter the talkgroup ID range. Follow the rules in the Resource ID Range Rules section previously defined in this chapter. Remember to choose Odd Only or Even Only if either option applies. If neither is chosen, then all numbers in the range will be included.

4. Choose a Validity Level. Below is a definition for each option:
   - **Assigned**: IDs in this range are assigned to users and activity on these IDs is expected.
   - **Unassigned**: IDs in this range are provisioned on the Central Controller. However, these IDs are not assigned to anyone and should not receive activity.
   - **Unallocated**: IDs in this range are not provisioned on the Central Controller and should not receive activity.

![Figure 2.4 – Add / Edit Talkgroup ID Range Window](image)

5. Once you are satisfied with the options for this ID Range, click the OK button. This will close the Add / Edit ID Range window and return you to the GW_SAM GUI. Notice that your new talkgroup ID range is now in the Resources and ID Ranges tree.
Adding Radio ID Ranges

To add a radio ID range, take the following steps:

1. In the Resources and ID Ranges tree, click on the ID Ranges entry that you wish to have as the parent of the new radio ID range. This will enable the Add button if it is not already enabled.

2. Click the Add button under the Resources and ID Ranges tree, or right-click the Talkgroup Ranges node and choose Add a New Radio ID Range... from the menu. This will load the Add / Edit ID Range window. (Figure 2.5). The system ID and type values are provided based on the Resources and ID Ranges tree entry that you had selected when you pressed the Add button. These values cannot be changed.

**NOTE:** If your radio ID ranges will use schedules, you must create these schedules before you can assign them to the radio ID ranges. See the Managing Schedules section above for instructions on creating schedules.

3. Enter the ID range. Follow the rules in the Resource ID Range Rules section previously defined in this chapter. Remember to choose Odd Only or Even Only if either option applies. If neither is chosen, then all numbers in the range will be included.

4. Choose a Validity Level. Below is a definition for each option:
   - **Assigned:** IDs in this range are assigned to users and activity on these IDs is expected.
   - **Unassigned:** IDs in this range are provisioned on the Central Controller. However, these IDs are not assigned to anyone and should not receive activity.
   - **Unallocated:** IDs in this range are not provisioned on the Central Controller and should not receive activity.

5. Optionally restrict the ID range to a specific time range by checking the Restricted to Time Range option. This option is only available if the ID
range has a **Validity Level** of **Assigned** selected. Checking the **Restricted to Time Range** option enables the **Schedule** combo box. Choose a schedule from the combo box.

6. Optionally restrict the services for this radio ID range by checking the **Allow Only the Following Services** option. This option is available only if the ID range has a **Validity Level** of **Assigned** selected. Checking the **Allow Only the Following Services** option enables the **Services** list box (below the checkbox). Select (double-click) the services that the radio ID range is expected to use. GW_SAM will consider a radio ID in this range suspect if it uses a service that is not selected in this list.

7. If you wish to set up Radio Search on this radio ID range, click the **Radio Search…** button. (See the **Radio Search** section for more information.)

8. Once you are satisfied with the options for this ID range, click the **OK** button. This will close the **Add / Edit ID Range** window and return you to the GW_SAM GUI. Notice that your new radio ID range is now in the **Resources and ID Ranges** tree.

The Dispatch service includes the following radio activities:

- **Affiliations**: If the radio affiliates to a group.
- **Busies**: If the radio receives a busy on a group.
- **Channel Assignments**: If the radio issues a group-based call.
Radio Search

On each radio ID range, you can enable the Radio Search option. Radio Search slowly sends a Radio Check command over your control channel for each radio ID in the radio ID range.

![Radio Search Window](image)

**Figure 2.6 – Radio Search Window**

In order to use Radio Search, you must be licensed for *RadioSearch* under the GW_SAM module and *RadioCheck* under the GW_Halcyon module.

You can monitor the progress of these Radio Search commands via the RCM Command window if you are logged in as the Admin user. The commands are archived in the Halcyon database and are available for reporting.

By specifying unallocated or unassigned radio ID ranges, you may use this feature to detect suspect radios operating on your system.
The following options are available on the Radio Search options window:

- **Enable Radio Search**: Enables radio search on this radio ID range.
- **Time of day restriction**: Allows you to restrict when radio searching occurs. This allows you to prevent radio search during peak hours.
  - **Any Time**: Perform radio search any time of day.
  - **Restricted to**: Restrict radio search to a time between the two specified times of day.
- **Hours Between Cycles**: Provides a minimum rest time between when the last radio search is performed on this radio ID range and when radio search for this radio ID range restarts.
- **RFSS ID**: RFSS ID targeted in this search.
- **Site ID**: Site ID targeted in this search.
- **Excluded Radio ID Ranges**: Ranges within the radio ID range that are excluded from the search.
  - **Add**: Add range to exclude from the radio search. This button loads the Add Excluded Radio Search Range window.
  - **Remove**: Remove all selected ranges from the Excluded Radio Ranges list.
- **OK**: Close the Radio Search window and save changes.
- **Cancel**: Close the Radio Search window and cancel changes.

![GW_SAM - Add Excluded Radio Search Range](image)

**Figure 2.7 – Add Excluded Radio Search Range Window**

**Editing an ID Range**

To edit a talkgroup or radio ID range, take the following steps:

1. In the Resources and ID Ranges tree, select the ID range that you wish to edit. This will enable the Edit button if it is not already enabled.
2. Click the Edit button or right-click the node and choose Edit... from the menu. This will load the Add / Edit ID Range window.
3. Change the options that you wish to change.
4. Once you are satisfied with the changes, click the OK button. This will save the changes, close the Add / Edit ID Range window and return to the GW_SAM GUI.
Deleting an ID Range

To delete a talkgroup or radio ID range, take the following steps:

1. In the Resources and ID Ranges tree, select the ID range that you wish to delete. This will enable the Delete button if it is not already enabled.
2. Click the Delete button or right-click the node and choose Delete... from the menu. This will result in a confirmation dialog box.
3. Click the Yes button to delete the selected ID range. This will remove the ID range from the Resources and ID Ranges tree.
This chapter describes how to use GW_SAM to monitor suspect activities.

This chapter contains the following sections:

- **Using the Suspect List**: Describes how to view and manipulate the *Suspect List*.
- **Using the Suspect Hotlist**: Describes how to view and manipulate the *Suspect Hotlist*.
- **Using the Suspect Exemption List**: Describes how to view and manipulate the *Suspect Exemption List*.
- **Changing GW_SAM Settings**: Describes the GW_SAM settings.
- **Suspect Notifications**: Describes user notifications of suspect activity.

GW_SAM contains many lists, like the one in Figure 3.1 below. Eliminate list columns that you do not wish to see by decreasing the column size to a 0 width. To decrease a column size:

1. Move the mouse over the right-most edge of the column’s header. This will show the I-bar icon.
2. Click the left mouse button and move the mouse to the left until the column is invisible.

GW_SAM saves the current column widths for all lists whenever it is closed and restores the column widths whenever it is opened.

**Using the Suspect List**

The *Suspect List* contains each suspect that has been added due to suspicious activity and suspects that you have added manually. The *Suspect List* contains the following information about each suspect in the list:

- **Type**: The type of suspect ID. This will either be *Talkgroup* or *Radio ID*.
- **System**: The system ID of the suspect.
- **ID**: The ID of the suspect. Its alias is shown in parentheses if it is not the default GW$ alias.
- **Last RFSS**: The last RFSS on which the suspect reported activity.
- **Last Site**: The last site on which the suspect reported activity.
- **Last TG**: The last talkgroup on which the suspect reported activity. Its alias is shown in parentheses if it is not the default GW$ alias.
- **Last Activity**: The last activity reported for the suspect.
- **Last Contact**: The last date and time the suspect reported activity.
- **Date Added**: The date and time the suspect was added to the *Suspect List*. 
• **Confidence Level:** Number indicating how sure GW_SAM is that this is a suspect. The higher this number is, the more confident GW_SAM is that this is a suspicious ID.

![Image of GW_SAM Suspect List]

**Figure 3.1 – GW_SAM Suspect List**

It is possible to receive suspect activity on a radio ID or a group that does not exist in your GW_Alias database. You may see a value in the ID or Last TG columns with a (*NOT FOUND*) next to the radio ID or group. This means that the radio ID or group does not exist in the GW_Alias database.

**Suspect List Options**

**New**

The **New** button allows you to manually add a suspect to the **Suspect List**. You may want to add a suspect if you know a radio ID or group ID is being abused, but you have not yet seen activity on it. Once the suspect has been added, GW_SAM will begin to keep a detailed history of the activity reported on the suspect ID. To manually add a suspect, take the following steps:

1. Click the **New** button below the **Suspect List**. This will load the **Add Suspect** window (Figure 3.2).

![Image of GW_SAM Add Suspect]

**Figure 3.2 – Add Suspect Window**

2. Choose the **WACN: System ID**.
3. Choose an **RFSS ID**.
4. Choose a **Site ID**.
5. Choose the **Range Type**. These values include:
   - **Radio ID**
   - **Talkgroup**
6. Type the **ID**.
7. Click the **OK** button to add the suspect. This will close the *Add Suspect* window and return you to the GW_SAM GUI.

**Delete**

The **Delete** button allows you to delete a suspect from the *Suspect List*. You may wish to delete a suspect that was manually added or a suspect that has not received activity in a while. To delete a suspect from the *Suspect List*, take the following steps:

1. Select the suspect that you wish to delete from the *Suspect List*. This will enable the **Delete** button if it is not already enabled.
2. Click the **Delete** button or right-click the suspect and choose **Delete…** from the menu. This will result in a confirmation dialog box.
3. Click the **Yes** button to delete the suspect. This will remove the suspect from the *Suspect List* and delete any history related to the suspect.

**Exempt**

The **Exempt** button allows you to move a suspect from the *Suspect List* to the *Suspect Exemption List*. You may want to mark a suspect as ‘exempt’ if the suspect exhibits behaviors that result in false suspicious activity. To exempt a suspect from the *Suspect List*, take the following steps:

1. Select the suspect that you wish to exempt from the *Suspect List*. This will enable the **Exempt** button if it is not already enabled.
2. Click the **Exempt** button or right-click the suspect and choose **Exempt…** from the menu. A confirmation dialog will be displayed for each selected suspect.
3. Click **Yes** to exempt the suspect, **No** to skip to the next suspect, (if multiple suspects were selected), or **Cancel** to abort all remaining exemptions.

**Add to Suspect Hotlist**

The *Suspect Hotlist* is a list of suspects, taken from the *Suspect List*, which you would like to monitor more closely. The *Suspect Hotlist*, described in the *Using the Suspect Hotlist* section, provides additional tracking information for suspects. To add a suspect to the *Suspect Hotlist*, take the following steps:

1. Select the suspect you wish to add to the *Suspect Hotlist*. This will enable the **Add to Hotlist** button if it is not already enabled.
2. Click the **Add to Hotlist** button or right-click the suspect and choose **Add to Hotlist** from the menu. This will add the suspect to the *Suspect Hotlist*. 
History

GW_SAM keeps detailed activity information for each suspect in the Suspect List. This information is called History. To view the history for a suspect in the Suspect List, take the following steps:

1. Click on the suspect for which you wish to view history. This will enable the History button if it is not already enabled.
2. Click the History button, right-click the suspect and choose History… from the menu, or double-click the suspect. This will load the Suspect History window (Figure 3.3).

Figure 3.3 – Suspect History window

3. Press the Close button on the Suspect History window to return to the GW_SAM GUI.

The Suspect History List contains the following columns:

- **RFSS**: The RFSS on which the activity was reported.
- **Site**: The site on which the activity was reported.
- **Source**: The source site on which the activity was reported (ATIA only).
- **Talkgroup**: The group on which the activity was reported. Its alias is shown in parentheses if it is not the default GW$ alias.
- **Radio ID**: The radio ID on which the activity was reported. Its alias is shown in parentheses if it is not the default GW$ alias.
- **Target Radio ID**: The target radio ID involved in the activity (if any). Its alias is shown in parentheses if it is not the default GW$ alias.
- **Activity**: Description of the activity.
- **Start DT**: Date and time the activity started.
- **End DT**: Date and time the activity ended.
• **Reason:** The reasons this activity was deemed as suspect (if any).
• **Confidence Level:** The percent confidence that GW_SAM has that this is suspect activity (if a reason is provided).

GenWatch3 stores the last 30 days of suspect activity for each suspect. Suspect history is purged via the centralized GenWatch3 purging operation. This length of time can be adjusted with the help of GenWatch3 support personnel.

It is possible to receive suspect activity on a radio ID or a talkgroup that does not exist in your GW_Alias database. You may see a value in the **Talkgroup**, **Radio ID** or **Target Radio ID** columns with a (*NOT FOUND*) next to the talkgroup, radio ID or target radio ID. This means that the talkgroup, radio ID or target radio does not exist in the GW_Alias database.

The **View Site** button shows a graphical representation of the site activity included in the history results. This requires settings for **Latitude**, **Longitude** and **Coverage Radius** for each site to be in place in GW_Alias.

By default, the **Suspect History** window will show only suspect activities with suspect reasons (i.e. activities that would result in the resource to be added to the **Suspect List**). From the **Suspect History** window, you can also view detailed activity. To view the detailed activity for a suspect, take the following steps:

1. Load the **Suspect History** window. This will show the suspect activities for the selected suspect.
2. Click the **Show All Activity** checkbox.
3. Choose your **From** date/time and **To** date/time. These will default to:
   a. 24 hours ago for the **From** value
   b. Now for the **To** value
4. Press the **Enter** key or click on the **Refresh** button. This will query the database for all activities for this suspect within the given **From** and **To** date/time values.

**Print**

GW_SAM allows you to print the activity in its **Suspect List**. To print the **Suspect List**, take the following steps:

1. Select the activity in the **Suspect List** that you wish to print. Select a range by clicking on the first activity and holding **Shift** while clicking on the last activity in the desired range. If you wish to print all the activity in the **Suspect List**, skip this step.
2. Right-click on the **Suspect List** and choose **Print ...** from the menu. This will show the printer options window specific to your default printer.
3. Select the options for your printer. It is usually best to choose to print in landscape mode (not portrait).
4. 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.
5. Click OK to print.

You can also access these options by right-clicking an item in the Suspect List.

Using the Suspect Hotlist

The Suspect Hotlist contains each suspect that has been manually added from the Suspect List. This list holds the suspect resources that we wish to watch more closely. The Suspect Hotlist contains the following information about each suspect in its list:

- **Type**: The type of suspect ID. This will either be Talkgroup or Radio ID.
- **System**: The system ID of the suspect.
- **ID**: The ID of the suspect. Its alias is shown in parentheses if it is not the default GW$ alias.
- **# PTTs**: The number of push-to-talks that have been received by the ID (or on IDs in the group, in the case of suspect groups) since the suspect was added to the Suspect List.
- **# Affiliations**: The number of affiliations that have been received by the ID (or by IDs in the group, in the case of suspect groups) since the suspect was added to the Suspect List.
- **Distinct Groups**: The total number of groups that the suspect has issued or received activity on (always 1 in the case of suspect groups).
- **Total Airtime (sec.)**: The total airtime (in seconds) that the suspect has issued activity for. For suspect groups, this will include all radio IDs on the group.
- **Last Contact**: The last date and time the suspect reported activity.

![Suspect Hotlist Table]

Figure 3.4 – GW_SAM Suspect Hotlist
Suspect Hotlist Options

Remove

The **Remove** button allows you to remove a suspect from the *Suspect Hotlist*. The suspect will not be removed from the *Suspect List*. To remove a suspect from the *Suspect Hotlist*, take the following steps:

1. Select the suspect that you wish to remove from the *Suspect Hotlist*. This will enable the **Remove** button if it is not already enabled.
2. Click the **Remove** button or right-click the suspect and choose **Remove**… from the menu. This will result in a confirmation dialog message box.
3. Click the **Yes** button. This will remove the suspect from the *Suspect Hotlist*.

Once you remove a suspect from the *Suspect Hotlist*, you may need to unselect the removed suspect in the *Suspect List* before the **Add to Hotlist** option is available for the removed suspect.

History

GW_SAM keeps detailed activity information for each suspect in the *Suspect List*, including all suspects in the *Suspect Hotlist*. This information is called History. To view the history for a suspect in the *Suspect Hotlist*, take the following steps:

1. Select the suspect for which you wish to view history. This will enable the **History** button if it is not already enabled.
2. Click the **History** button, right-click the suspect and choose **History**… from the menu, or double-click the suspect. This will load the *Suspect History* window (Figure 3.3).
3. Click the **Close** button on the *Suspect History* window to return to the GW_SAM GUI.

Print

1. Select the activity in the history list that you wish to print. Select a range by clicking on the first activity and holding **Shift** while clicking on the last activity in the desired range. If you wish to print all the activity in the history list, skip this step.
2. Right-click on the *Suspect Hotlist* and choose **Print** … from the menu. This will show the printer options window specific to your default printer.
3. Select the options for your printer. It is usually best to choose to print in landscape mode (not portrait).
4. 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.
5. Click **OK** to print.

You can also access these options by right-clicking an item in the *Suspect Hotlist*. 

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Using the Suspect Exemption List

The Suspect Exemption List contains each suspect that has been marked as exempt.

You may want to mark a suspect as “exempt” if the suspect exhibits behaviors that result in false suspicious activity. The Suspect Exemption List is accessed using the Exempt Suspects… menu option on the Options menu. The Suspect Exemption List contains the following information about each exempt suspect in the list:

- **Type:** The type of suspect ID. This will either be Talkgroup or Radio ID.
- **ID:** The ID of the suspect. Its alias is shown in parentheses if it is not the default GWS alias.
- **Last RFSS:** The last RFSS on which the suspect reported activity.
- **Last Site:** The last site on which the suspect reported activity.
- **Last TG:** The last talkgroup on which the suspect reported activity. Its alias is shown in parentheses if it is not the default GWS alias.
- **Last Activity:** The last activity reported for the suspect.
- **Last Contact:** The last date and time the suspect reported activity.
- **Confidence Level:** Number indicating how sure GW_SAM is that this is a suspect. The higher this number is, the more confident GW_SAM is that this is a suspicious ID.

![Figure 3.5 – Manage Suspects Window](image)

Once a suspect is exempted, GW_SAM will stop storing detailed activity for the suspect.

When the Manage Suspects window is opened, the user will have exclusive access to it for 10 minutes or until the window is closed. During this time, other clients will not be able to access the window.
Suspect Exemption List Options

Delete
The Delete… button allows you to delete a suspect from the Suspect Exemption List. You may wish to delete an exempt suspect that was manually added or a suspect that has not received activity in a while. To delete a suspect from the Suspect Exemption List, take the following steps:

1. Select the suspect that you wish to delete from the Suspect Exemption List. This will enable the Delete… button if it is not already enabled.
2. Click the Delete… button or right-click the suspect and choose Delete… from the menu. This will result in a confirmation dialog box.
3. Click the Yes button to delete the suspect. This will remove the suspect from the Suspect Exemption List and delete any history related to the suspect.

Restore
The Restore… button moves a suspect out of the Suspect Exemption List and back into the main Suspect List. To restore a suspect to the Suspect List, take the following steps:

1. Select the suspect that you wish to restore to the Suspect List. This will enable the Restore… button if it is not already enabled.
2. Click the Restore… button or right-click the suspect and choose Restore… from the menu. This will result in a confirmation dialog.
3. Confirm the move, by clicking the Yes button. This will move the suspect from the Suspect Exemption List back into the Suspect List.

History
Once a suspect is added to the Suspect Exemption List, existing radio activity information is retained, but additional activity will not be recorded. This information is called History. To view the history for a suspect in the Suspect Exemption List, take the following steps:

1. Select the suspect for which you wish to view history. This will enable the History… button if it is not already enabled.
2. Click the History… button, right-click the suspect and choose History… from the menu, or double-click the suspect. This will load the Suspect History window (Figure 3.3).
3. Click the Close button on the Suspect History window to return to the GW_SAM GUI.
Print

1. Select the activity in the history list that you wish to print. Select a range by clicking on the first activity and holding **Shift** while clicking on the last activity in the desired range. If you wish to print all the activity in the history list, skip this step.

2. Right-click on the **Suspect Exemption List** and choose **Print ...** from the menu. This will show the printer options window specific to your default printer.

3. Select the options for your printer. It is usually best to choose to print in landscape mode (not portrait).

4. Click **OK** once you are satisfied with your printer options. This will result in a dialog asking if you want to print selected items or all items.

5. Click **OK** to print.

You can also access these options by right-clicking an item in the **Suspect Exemption List**.
**Changing GW_SAM Settings**

The *Settings* window allows you to customize the settings for GW_SAM.

**Overlap Threshold**

This tab contains a single setting, which is explained in detail on the window.

![Overlap Threshold Tab](image)

**Figure 3.6 – GW_SAM Settings – Overlap Threshold Tab**

The overlap statistics section is provided to better help you gauge the ideal overlap threshold setting.

Multisite data may not report overlapping calls in the same way as control channel data. If your GenWatch3 is receiving data from a multisite data source, set your Overlap Threshold to 0.000 seconds. This will allow GW_SAM to detect calls that begin and end at exactly the same time. For some multisite configurations, this is the only way to detect partially overlapping calls.
Impossible Driving Distance (IDD) Threshold

This tab contains three values:

- Assumed driving speed (adjustable)
- Ignored IDD Suspect Threshold (adjustable)
- Average Broadcast Radius

Assumed Driving Speed

When GW_SAM calculates an IDD, it uses this value as the maximum speed with which a radio ID could travel from point A to point B. If a radio ID keys up in such a way that it moved from point A to point B faster than the Assumed Driving Speed, the radio ID is considered a suspect.

Ignored IDD Suspect Threshold

This value allows you to ignore IDD suspects that are added with a low confidence level. You may wish to increase this value based on the quality of IDD suspects being reported by GW_SAM. The logic used to derive IDD suspects is not exact, because GW_SAM is not provided with the exact broadcast limitations of each site and because terrain is variable.
**Ignore Site Change Threshold**
This value indicates the amount of time in milliseconds to wait before processing data from a source site ID that differs from a radio ID’s previous source site ID. Adjust this threshold to prevent false positives when propagation results in activity from the radio’s nearby sites presented as if they were the radio’s source site.

**Average Broadcast Radius**
This value indicates the average broadcast radius among all sites in all systems. This value is used in the IDD formula described below.

**The IDD Formula**
The IDD formula consists of two separate calculations:
- SMPH: Miles per hour required to cover the distance between two sites (minus the broadcast radiiuses of the two sites) in the given amount of time.
- SMID: Miles in the distance between two sites (minus the broadcast radiiuses of the two sites).

Given the two sites:
- Site ID: 1
  - Coverage Radius: 16 miles
  - Latitude: 13
  - Longitude: 14
- Site ID: 2
  - Coverage Radius: 14 miles
  - Latitude: 13
  - Longitude: 14.5

Kilometers are converted to miles before being used in the IDD Formula.

The distance between these two sites is approximately 33.66 miles. If radio ID 301 issues a push-to-talk with a reported source site of 1 and one minute later issues a push-to-talk with a reported source site of 2, the radio ID traveled 3.66 miles in 1 minute (distance between the two sites – (each site’s coverage radius)) = (33.66 – (16 + 14)).
Covering 3.66 miles in 1 minute requires a speed of 219.6 mph. GW_SAM takes this speed and compares it with the assumed driving speed value above. In this example, we have 75 mph as the assumed driving speed. To determine the SMPH value, GW_SAM subtracts the assumed driving speed from the actual speed and caps the value off at 100.

\[
\text{SMPH} = 219.6 \text{ mph} - 75 \text{ mph} = 144.6 \text{ mph (capped off at 100 mph)} \\
\text{So SMPH} = 100
\]

Next, GW_SAM calculates the SMID multiplier. This value decreases the confidence level, based on how small a distance was traveled. The SMID multiplier is derived by dividing the distance the radio ID traveled by the average broadcast radius (capped off at 100).

\[
\text{SMID} = \frac{\text{distance}}{\text{average site broadcast radius}} = \frac{3.66}{15} = 0.244
\]

The overall confidence level of this suspect activity = SMPH * SMID = 100 * 0.244 = 24.4%

**IDD Formula Conclusion**

As demonstrated, the above value is not a very high confidence level; and rightfully so. If a human were looking at these values they would, most likely, come to the same conclusion. This looks like a case where sites 1 and 2 are adjacent sites. The coverage radii provided for these two sites are either slightly off (as expected in estimated values) or the radio ID found site 2 after topping a hill, etc. If the Ignored IDD Suspect Threshold is 25 or more, this suspect will not be added to the GW_SAM Suspect List.
**View Site Map**

The **View Site Map** option shows a graphical representation of how your sites are geographically positioned, based on the **Longitude**, **Latitude** and **Broadcast Radius** values provided for each site in the GW_Alias window. To view the **Site Map** window, follow the steps below:

1. Load the **Settings** window by clicking on the **Settings** button.
2. Click on the **IDD Threshold** tab.
3. Click on the **View Site Map** button. This will load the **Site Map** window.

![Site Map Window](image)

**Figure 3.8 – Site Map Window**
Affiliation Watch

This tab allows you to define how you expect radios to affiliate on your system. This tab also allows you to choose whether to automatically disable a radio with an ID in an unallocated ID range that generates activity. For more on how to create an unallocated ID range in GW_SAM, see Chapter 2 – Setting Up GW_SAM.

![Affiliation Watch Tab](image)

**Figure 3.9** – GW_SAM Settings – Affiliation Watch Tab

If a single radio affiliates more often than the **time(s)** value within the **second(s)** value, the radio ID will be added as a suspect with 75% confidence. If you do not wish to use this feature, set the **time(s)** value to 99, the highest possible value.

When GenWatch3 receives activity from a system, GW_SAM checks it against all defined ID ranges. If the ID responsible for this activity falls within an unallocated range, GW_SAM will add it to the **Suspect List**. Lastly, if this checkbox is checked, GW_SAM will immediately issue an inhibit command, targeting the suspect radio. Subsequently, GW_SAM will issue an inhibit command every time the suspect radio generates activity, unless an automatic command is already pending to that ID. To prevent inhibits from unintentionally being sent repeatedly, after an automatic inhibit command is issued, new activity within 60 seconds will not trigger a new command.

*This option is licensed separately and will only show up if licensed for SelectiveInhibit.*
**Talkgroup Watch**

When you setup a talkgroup range in GW_SAM, you will get GUI notifications of any suspect activity on that range. That alert allows you to manually follow up to decide the appropriate actions to take.

In some circumstances, however, when a talkgroup is added to the *Suspect List*, you will also want to add any radio using that talkgroup to the *Suspect List*. Checking the box labeled **Add radio IDs on suspect talkgroups to Suspect List** will automatically add radio IDs to the *Suspect List* if they generate activity on a talkgroup that breaks the rules defined for that talkgroup.
Usage examples:

- **Cut off a specific talkgroup:** Imagine you have a customer on your system that uses 30 radios operating on talkgroup 16. If you wish to cut off the customer’s access to your system without manually inhibiting every radio, create a talkgroup ID range of 16-16 and set its validity level to Unallocated. If the Talkgroup Watch and Automatic Inhibit options are checked, each radio will be inhibited automatically after it generates activity.

- **Prevent unauthorized talkgroups from using the system:** If authorized users on your system should be using talkgroups 1-10, create a talkgroup range from 11 to the maximum ID range on your system. If the Talkgroup Watch and Automatic Inhibit options are checked, any radio will be inhibited automatically after it generates activity on an invalid talkgroup.

![Figure 3.10 – GW_SAM Settings – Talkgroup Watch Tab](image_url)
Notification Options

This window allows you to choose which suspect reasons result in a GUI notification (see the Suspect Notifications section) of a new suspect.

![Notification Options Window]

**Figure 3.11 – GW_SAM Settings – Notification Options Tab**

Each checkbox on this window represents a reason why GW_SAM adds a suspect to the Suspect List. If you do not wish to receive a GUI notification when a suspect is added for a particular reason, uncheck that reason.

![Info icon]

If you uncheck the Conventional Overlapping Calls option, GW_SAM will no longer add suspects based on that criterion.
Suspect Notifications

When GW_SAM adds a new suspect to the Suspect List, it also sends out a GenWatch3 GUI Notification. These are the same notifications discussed in Chapter 10: GenWatch3 Notifications of the GenWatch3 Core Manual.

For each new suspect, the GW_Alerts GUI shows a GenWatch3 GUI Notification window. This window’s Desc. column shows:
- **Suspect Type:** Talkgroup or Radio ID.
- **Level:** Percent confidence level that this activity is unwanted activity.
- **Reason:** Why the activity is considered suspect.

These notifications are only shown to GenWatch3 users with the GW_Security Administrator privilege.

The GenWatch3 GUI Notification is accompanied by a sound of breaking glass (to denote breaking and entering). This sound file is named NewSuspect.wav and is located in the installation directory of GenWatch3 (by default C:\Program Files\Genesis\GenWatch3). GenWatch3 ships with two additional sound files:
- **NewSuspect2.wav:** Longer version of the breaking glass sound
- **NewSuspect3.wav:** Creaking door

To change the new suspect notification sound to one of the other sound files, follow the steps below:
1. Browse to the GenWatch3 installation directory.
2. Right-click on the NewSuspect.wav file. This will show the file options menu.
3. Choose Rename from the file options window.
4. Rename the file NewSuspect.wav to NewSuspect1.wav.
5. Right-click on the file that you wish to use as the new suspect sound file. This will show the file options menu.
6. Choose Rename from the file options window.
7. Rename the file to NewSuspect.wav.

You are not limited to replacing the NewSuspect.wav file with the ones provided in the GenWatch3 installation. If you have a .wav file you would prefer to hear for suspects, follow the steps above to rename your file to NewSuspect.wav.