



**GenWatch3®**  
**GW\_Activity**  
**Software Version 2.23.5**  
**Module Book**

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***GenWatch<sub>3</sub>***

**600-2.23.5-E.1**  
**10/31/2023**



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Refer to the *Troubleshooting & Support* section of the GenWatch3 Manual Shell (Book 600-2.23.5-AA.1) for complete support and contact information.

## ***Document History***

<b>Revision</b>	<b>Description</b>	<b>Author</b>
2.0.2	Initial Release	JAW
2.0.3	Revisions before Release	JPS
2.0.4	Changed to reflect new Advanced Filter options	JAW
2.0.5	Revisions before Release	TDW
2.0.6	Updated screenshots with F1 help image	REB
2.0.6	Update Activity Values details	CLB
2.0.6.6	Revisions Before Release	JAW
2.2	Revisions Before release	CWF
2.3	Revisions Before Release	CWF
2.4	Revisions Before Release	CWF
2.5	Revisions Before Release	CWF
2.5	Added how to delete packet types from the list.	REB
2.6	Revisions Before Release	CWF
2.7	Added slot to Ch# column description	KIH
2.7	Revisions Before Release	JAW
2.8	Revisions Before Release	ATG
2.9	Revisions Before Release	REB
2.10	Revisions Before Release	ATG
2.11	Converted to Docx format	CWF
2.12	Revisions Before Release	JAW
2.13	Revisions Before Release	ATG
2.14	Revisions Before Release	JAW
2.15	Revisions Before Release	REB
2.16	Revisions Before Release	JPS
2.17	Added CSV export	DEW

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### Goals

This document describes the role and function of the GW\_Activity module and GW\_Activity GUI (Graphical User Interface) within the GenWatch3 solution.

### Who Should Read This Manual?



This document is written for an intended audience of novice to intermediate trunked radio system users and novice to intermediate PC users.

### How This Manual Is Organized

This manual is organized as follows:

- **Overview:** Describes the basic function of the GW\_Activity module and GUI.
- **Advanced Options:** Describes the function of the advanced GW\_Activity options.

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.

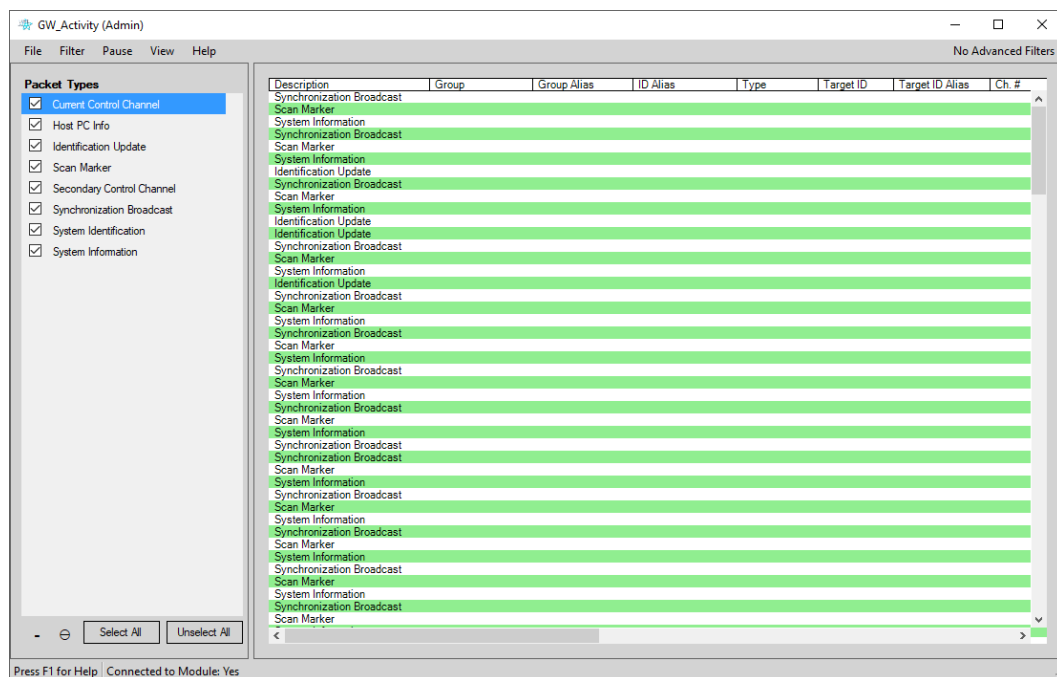




This chapter defines the GW\_Activity module and GW\_Activity GUI and gives instructions on filtering and color-coding packets.

This chapter contains the following sections:

- **What is GW\_Activity?:** Defines the GW\_Activity module and GUI.
- **Monitoring Channel Activity:** Describes how to interpret the data in the activity list.
- **Customizing Channel Activity:** Describes how to customize the GW\_Activity GUI.



**Figure 1.1** – GW\_Activity GUI

## **What is GW\_Activity?**

The GW\_Activity GUI shows real-time activity from each GenWatch3 input connection. These input connections can vary from single-site connections monitoring a control channel to multisite connections receiving data from a data stream. Through this window you can:

- Monitor channel activity.
- Filter the packet types.
- Assign colors to specific packet types.
- Customize the font and column order of the activity list.
- Suppress duplicate packets.
- Pause the activity list.
- Print the activity list.
- Export the activity list.

## **Monitoring Channel Activity**

The GW\_Activity GUI provides the activity list. This list allows you to view control channel or multisite stream activity in real time. For a description of the type of information that can be received for an input type, refer to the module book for the associated input module.



Refer to the *Troubleshooting & Support* section of the GenWatch3 Manual Shell (Book 600-2.23.5-AA.1) for complete support and contact information.

## Activity Values

The activity list contains the following columns:

- **Description:** Broad category of the activity (i.e. Affiliation, Status, Message, etc.).
- **Group:** Target group (if any) of the activity.
- **Group Alias:** Alias of the target group (if there is a group). If the multisite stream includes a group ID alias, this alias will be used. See note on aliases below.
- **ID:** Originating radio ID (if any) of the activity.
- **ID Alias:** Alias of the originating radio ID (if there is a radio ID). If the multisite stream includes a radio ID alias, this alias will be used. See note on aliases below.
- **Type:** Activity subcategory. Further describes the type of activity.
- **Target ID:** This will contain one of the following values, if the value is provided in the packet:
  - **Target Radio ID:** For call alerts, private calls, etc.
  - **Target Supergroup:** For dynamic regrouping.
  - **Diagnostic Condition Description:** For system diagnostics
  - **Message Number:** For messages
  - **Status Number:** For statuses
  - **Reason:** For rejects, corruption, etc.
  - **Longitude:** For GPS Location info
  - **Latitude:** For GPS Location info
- **Target ID Alias:** This will contain one of the following values, if the value is provided in the packet:
  - **Target Radio ID Alias:** For call alerts, private calls, etc. If the multisite stream includes a Target Radio ID Alias, this alias will be used. See note on aliases below.
  - **Target Supergroup Alias:** For dynamic regrouping. If the multisite stream includes a Target Supergroup Alias, this alias will be used. See note on aliases below.
- **Ch. #:** This will contain one of the following values, if the value is provided in the packet:
  - **For Control Channel-based Data:** The Channel Number that the activity took place on. If the activity includes slot data, <Channel Number>-<Slot Number> is displayed.
  - **For Multisite Channel Number-based Data:** Comma-separated pairs of <Site Id>-<Channel Number> for each site channel included in the activity. If the activity includes slot data, comma-separated pairs of <Site Id>-<Channel Number>-<Slot Number> for each site channel slot included in the activity. Busy sites are shown in **B-<site1>,<site2>** format. Incapable sites are shown following in **I-<site1>,<site2>** format. See notes below.
- **Ch. Freq.:** This column will contain the frequency of the channel the activity took place on. For multisite data, this column will be empty.

- **For Multisite Frequency-based Data:** Comma-separated pairs of <Site Id>-<Frequency> for each site channel included in the activity. If the activity includes slot data, comma-separated pairs of <Site Id>-<Frequency>-<Slot Number> for each site channel slot included in the activity. Busy sites are shown in **B-<site1>,<site2>** format. Incapable sites are shown following in **I-<site1>,<site2>** format.
- **Ch. Alias:** This column will contain the alias of the channel the activity took place on. For multisite data, this column will be empty. See note on aliases below.
- **Timestamp:** The date and time when the activity was received or originated. This will be the packet time stamp for packets that include a time stamp. Otherwise, it will be the date and time the packet was received by the input module.
- **Elapsed Time:** The duration of the activity. Only calls and busies provide an elapsed time.
- **System ID:** The system on which the activity originated.
- **System ID Alias:** The alias of the system on which the activity originated. See note on aliases below.
- **RFSS ID:** The RFSS on which the activity originated.
- **RFSS ID Alias:** The alias of the RFSS on which the activity originated. See note on aliases below.
- **Site ID:** The site on which the activity originated. For multisite data, if the activity is console-based, this column will contain the first (in numerical order) site of all sites involved in the activity.
- **Site ID Alias:** The alias of the site on which the activity originated. See note on aliases below.



Incapable sites are sites whose hardware could not support the call type; such as analog sites for digital calls.



Busy sites are sites that could not support a channel grant at the time of the call. This could be due to a lack of available channels.



You can view the details of an activity by double-clicking on an entry in the activity list. This will result in a dialog box showing every property that GenWatch3 knows about the selected activity. This functionality is also available in the *Pause* window.



Aliases (ID, Group, Target Radio ID, Supergroup, Channel, System ID, RFSS ID, and Site ID) can be changed in the GW\_Alias GUI. If the alias has not been changed it will appear in the appropriate column using the respective GenWatch3 default GW\$[ID], GW\$[Group ID], GW\$[System ID], etc. format alias.

## Maximizing the Activity List

The GW\_Activity GUI allows you to resize the activity list. To resize the activity list, follow the steps below:

1. Hover over the slider bar between the **Packet Types** list and the activity list. This will show a resize mouse pointer.
2. Hold down the left-click button and move the mouse left and right to resize the activity list.
3. You can also double-click on the slider bar to maximize the activity list and hide the **Packet Types** List. To show the **Packet Types** List again, double-click on the slider bar. This can also be done by checking/unchecking the **Packet Types** menu option under the **Filter** menu.

## Customizing Channel Activity

The visual appearance of the data shown in the activity list can be customized in various ways. Features such as the font, font size, columns, column order, packet type colors, and more can be changed. These allow you to customize the look of the data to fit your needs.

## Changing Activity List Font and Size

To change the font or size:

1. Click the **Font** menu option in the **View** menu. This will display the **Font** window.
  - a. You can also right-click on the activity list and choose the **Font** menu option from the menu that appears.
2. Choose the Font, Font style (italic, bold, etc.), Font Size, among other options.
3. Click the **OK** button to apply the changes to the activity list.

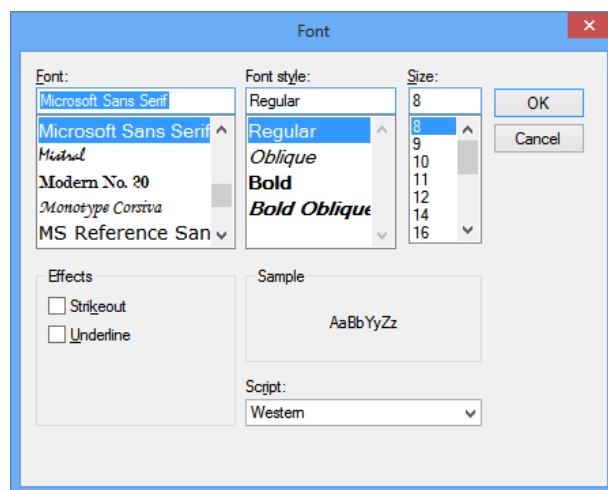


Figure 1.2 – Font Window

## Enabling/Disabling the Green Bar

Another feature that can be enabled is the **Green Bar**. When enabled, the background of the rows in the activity list is alternately colored green and white. This allows you to easily distinguish between consecutive packets and not confuse the data on adjacent lines. To enable/disable the **Green Bar**, either select the **Green Bar** menu option from the **View** menu or right-click anywhere on the activity list and select the **Green Bar** option from the menu that appears.

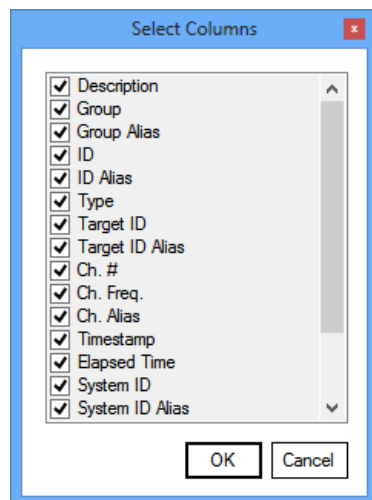


Notice that the Group and Radio ID columns may not change to the green background color. If a Group or Radio ID's background color has been changed in the GW\_Alias GUI, those colors assigned will be used instead. See the GW\_Alias module book for more details on changing foreground and background colors for groups and radio IDs.

## Showing/Hiding Columns

To select the visible columns in the activity list:

1. Click the **Select Columns** menu option under the **View** menu. This will display the **Select Columns** window.
  - a. You can also right-click on the activity list and choose the **Select Columns** menu option from the menu that appears.
2. Check the columns you wish to see in the activity list. By default, all columns will be checked and thus will appear in the activity list.
3. Click the **OK** button to apply the changes to the activity list.



**Figure 1.3** – Select Columns Window

## Reordering Columns

To change the location of a column:

1. Click the column header (column title) of the column you wish to move and hold the mouse button.
2. Drag to the left or right until you have reached the desired position. As the column is being dragged, the column you are currently over will be highlighted.
3. Release the mouse button when you have reached the desired position. The column you dragged will be placed at the position of the currently highlighted column. The highlighted column and all columns to its right will now be to the right of the dragged column. All those to the left will continue to be to the left.

## Adding a Little Color to Your Life

To assign a color to a packet type, take the following steps:

1. Right-click on the packet type in the **Packet Types** list. This will result in a color dialog box.
2. Select the color that you wish to assign to the packet type.
3. Click **OK**. This will change the color of the selected packet type to the chosen color. All activities of this packet type in the activity list will also change to the selected color.



The Group and Radio ID columns do not change to the selected color. This is because these columns use the colors assigned to them in the GW\_Alias GUI. See the GW\_Alias module book for more details on changing foreground and background colors for groups and radio IDs.

## Disabling Packet Throttling

By default, the GW\_Activity module throttles packets to send a distinct input packet no more than once per second. For diagnostic purposes, a user that has the **DisableThrottle** privilege can disable this packet throttling. To enable/disable packet throttling check/uncheck the **Throttle** menu option in the **Filter** menu by clicking on that menu option.



This option has no effect on many multisite packets, as these packets are generally not sent in duplicate, triplicate, etc.



Throttling is used to reduce network bandwidth between the GW\_Activity module and the GW\_Activity GUI. When throttling is disabled, GW\_Activity uses up to 10 times more network bandwidth.

## Filtering Packet Types

The GW\_Activity GUI contains a **Packet Types** list that shows all known packet types. This list will start off empty and will add new packet types as they are received by GenWatch3. New packets types will default to checked (Included) in the **Packet Types** list. All checked packet types will appear in the activity list as they are received. Packet types that are unchecked will not be shown in the activity list.

### Packet Types

- ☒ Current Control Channel
- ☒ Scan Marker

Figure 1.4 – Two Checked (Included) Packets

## Selecting All Packet Types

Click the **Select All** button to select all packet types in the list. This will show all activity for all known packet types.

## Unselecting All Packet Types

Click the **Unselect All** button to unselect all packet types in the list. This will exclude all activity for all known packet types, thus stopping the scrolling activity.

## Deleting Packet Types

Click on a packet type to select it, then press the **Delete** key to remove that packet type from the list. Holding the **Shift** key while pressing **Delete** will remove all packet types from the list. You can also click the **Delete** and **Clear** buttons under the **Packet Types** list.



Deleted packets will be re-added to the list with default colors the next time GW\_Activity receives that type of packet.

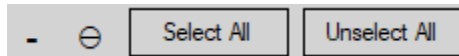


Figure 1.5 – Packet Types List Buttons

## Suppressing Duplicate Packets

This option allows you to filter out consecutive packets with very similar details. To be hidden, a packet must have the same type, ID, target ID, etc., as the previous packet. To enable/disable duplicate packets check/uncheck the **Suppress Duplicates** menu option in the **Filter** menu by clicking on that menu option.



This option has no effect on many multisite packets, as these packets are generally not sent in duplicate, triplicate, etc.



This chapter describes the advanced options available in the GW\_Activity GUI.

This chapter contains the following sections:

- **Advanced Filters:** Describes how to filter packets by system ID, RFSS ID, site ID, group ID, radio ID and/or agency.
- **Pausing the Activity List:** Describes how to create an *Activity Pause* window and the *Activity Pause* window options.
- **Activity Details:** Describes how to view the detailed information for an activity.

## Advanced Filters

The GW\_Activity GUI, by default, accepts activity from all connected systems, RFSSs, sites, groups, radios, and agencies. The sections below describe how to filter the activity.

### Trunking Filters

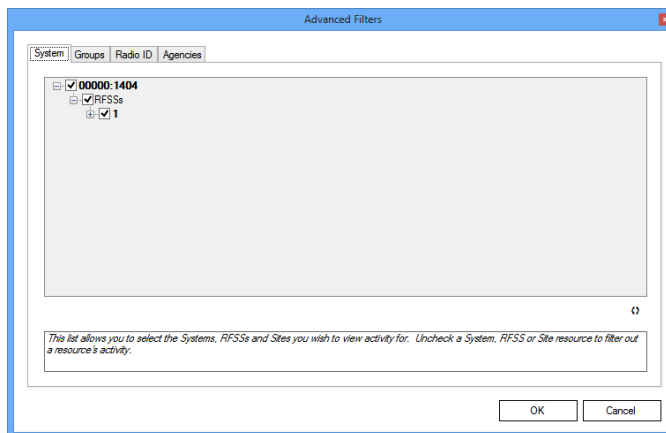
If you wish to filter the GW\_Activity GUI based on Trunking Systems, click on the **Advanced** menu option of the **Filter** menu, then click on the **Trunking Filters...** menu option. This will load the *Advanced Filters* window.

The current state of any trunking filters is displayed in the menu bar. Clicking on this text will load the *Advanced Filters* window. If you have applied any filters in the *Advanced Filters* window, the menu bar will provide details on the types of active filters.

#### System Filter

This filter will allow the GW\_Activity GUI to be filtered by System, RFSS and Site.

1. Click on the **System** tab.
2. Uncheck the nodes of the Systems, RFSSs and/or Sites that you wish to exclude. Filters are applied to the scrolling data as you check/uncheck nodes.
3. Click the **OK** button. This will return you to the GW\_Activity GUI.



**Figure 2.1** – Advanced Filters – System Tab



This tree only contains system IDs, RFSS IDs and site IDs received by the GW\_Activity GUI. This window does not reference the GenWatch3 Alias database for a list of these IDs.

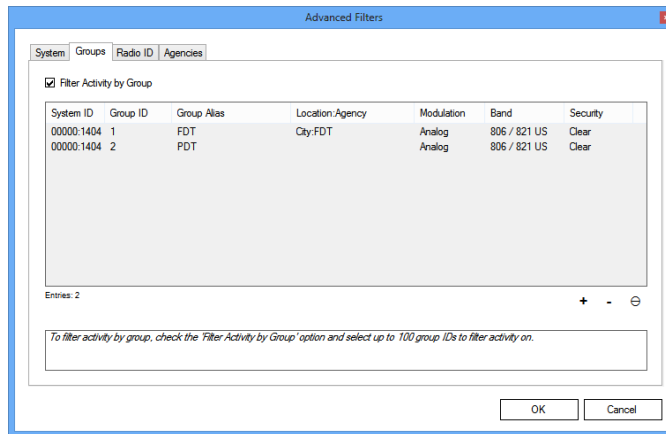


For multisite systems, if activity contains a Site ID List and one of the sites in the Site ID List is marked as Allowed, GW\_Activity will show this activity. You can see an activity's Site ID List via the *Activity Details* window. See the *Activity Details* section below.

## Group Filter

This filter will allow the GW\_Activity GUI to be filtered by group.

1. Click on the **Groups** tab.
2. Click the **Filter Activity by Group** option.
3. Click the **Add** button to add one or more groups.
4. Click the **OK** button. This will apply your filter and return you to the GW\_Activity GUI.

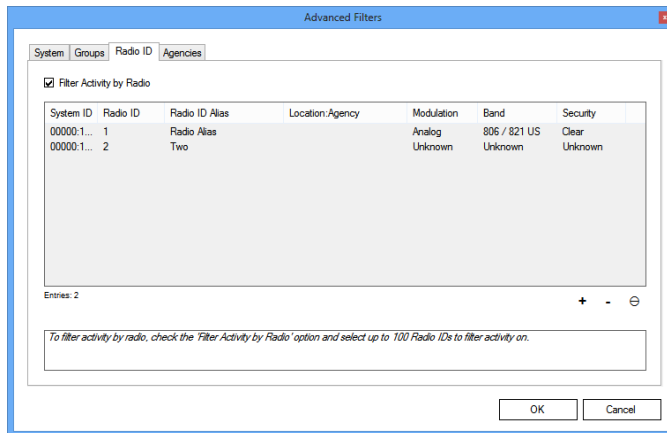


**Figure 2.2** – Advanced Filters – Groups Tab

## Radio ID Filter

This filter will allow the GW\_Activity GUI to be filtered by radio ID.

1. Click on the **Radio ID** tab.
2. Click the **Filter Activity by Radio** option.
3. Click the **Add** button to add one or more radio IDs.
4. Click the **OK** button. This will apply your filter and return you to the GW\_Activity GUI.

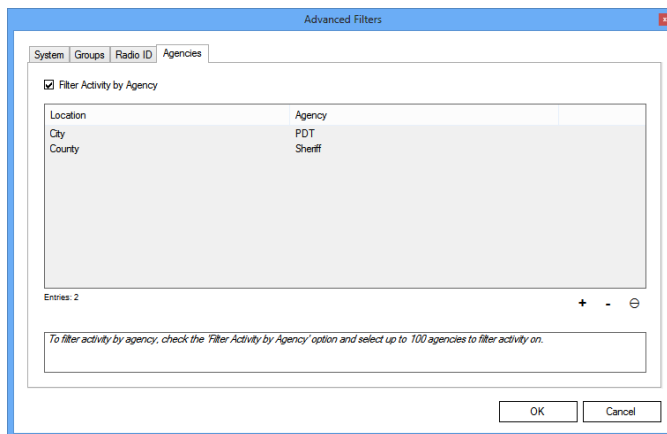


**Figure 2.3** – Advanced Filters – Radio ID Tab

## Agencies Filter

This filter will allow the GW\_Activity GUI to be filtered by agencies.

1. Click on the **Agencies** tab.
2. Click the **Filter Activity by Agency** option.
3. Click the **Add** button to add one or more agencies.
4. Click the **OK** button. This will apply your filter and return you to the GW\_Activity GUI.



**Figure 2.4** – Advanced Filters – Agencies Tab

## Pausing the Activity List

You may wish to pause the activity list to view a snapshot of activity data or to make double-clicking on an activity easier. To pause the activity list, click the **Pause** menu button. This will open an *Activity Pause* window that contains the data in the activity list at the time of the pause.

Activity Pause - Thursday, March 10, 2022 at 9:03:14 AM

Description	Group	Group Alias	ID	ID Alias	Type	Target ID	Target ID Alias	Ch. #	Ch. Freq.	Ch ^
Registration	9249379600003...	37SCTPD	9249379609373...	9373226						
Channel Assignm...	9249379600001...	73MMR1	9249379602733...	2733283	Group			19-5-1,21-4-1		
Raw CallActivity...								19-5,21-4		
Registration	9249379600001...	REGD1	9249379601330...	1330307						
End Of Call	9249379600001...	73MMR1	9249379602739...	2739923	Group	DisconnectCom...		19-6-1,21-10-1		
Raw EndOfCall						DisconnectCom...				
Channel Assignm...	9249379600004...	72P911	9249379604000...	d7503C2	Group Console I...			17-3-1		
End Of Call	9249379600004...	72P911	9249379604000...	d7503C2	Group Console			17-3-1		
Raw CallActivity...								17-3		
[Call Activity] Call ...	9249379600004...	72P911	9249379604000...	d7503C2	Group Console			17-3-1		
Raw CallActivity...								17-3		
Registration	9249379600012...	09FT911	9249379602093...	2093153						
Channel Assignm...	9249379600004...	72P911	9249379604000...	d7503C2	Group Console I...			17-3-1		
End Of Call	9249379600004...	72P911	9249379604723...	4723027	Group Interzone			17-3-1		
Raw CallActivity...								17-3		
End Of Call	9249379600003...	37SCTPD	9249379603002...	d6301p2	Group Console I...	DisconnectCom...		11-5-1,22-10-1		
Raw EndOfCall						DisconnectCom...				
Ind Roamed Zones	9249379600003...	ZC\$3150	9249379609593...	9593004						
Channel Assignm...	9249379600012...	MTAFR1	9249379602254...	2254663	Group Interzone			4-5-1		
End Of Call	9249379600012...	MTAFR1	9249379602254...	2254663	Group Interzone			4-5-1		
Raw CallActivity...								4-5		
Channel Assignm...	9249379600002...	25EMS1	9249379602000...	d25D1IP04	Group Console I...			2-4-1,4-4-1,21-7...		
End Of Call	9249379600002...	25EMS1	9249379609733...	9733008	Group Interzone			2-4-1,4-4-1,21-7...		
Raw CallActivity...								2-4,4-4,21-7,23-7		
End Of Call	9249379600002...	47PD911	9249379602009...	d1206C4	Group Console I...	DisconnectCom...		1-7-1,24-5-1		
Raw EndOfCall						DisconnectCom...				
Channel Assignm...	9249379600002...	09P911	9249379601000...	d3109p2	Group Console			11-6-1,19-3-1,21...		
End Of Call	9249379600002...	09P911	9249379602093...	2093039	Group			11-6-1,19-3-1,21...		
Raw CallActivity...								11-6,19-3,21-14...		
Deregistration			9249379609093...	9093360						
Channel Assignm...	9249379600012...	81MPS1	9249379602813...	2813849	Group Interzone			7-3-1		
End Of Call	9249379600012...	81MPS1	9249379602819...	2819703	Group Interzone			7-3-1		
Raw CallActivity...								7-3		
Registration	9249379600002...	HVAD2	9249379609813...	9813081						
End Of Call			0	GW\$0	Private Radio D...	DataChannelRel...		19-4-1		
Raw EndOfCall						DataChannelRel...				
Channel Assignm...	9249379600004...	72P911	9249379604723...	4723027	Group Interzone			17-3-1		
End Of Call	9249379600004...	72P911	9249379604000...	d7503C2	Group Console I...			17-3-1		
Raw CallActivity...								17-3		

Figure 2.5 – Activity Pause Window

## Pause Window Options

### **Opacity (available in menu only)**

Opacity measures how close a window is to solid (not transparent). You can adjust the opacity of an *Activity Pause* window (making it more transparent) to allow you to see real-time activity while viewing the *Activity Pause* window.

### **Print (available in menu and right-click)**

Prints the *Activity Pause* window. This window will print in a landscape format (longer horizontally than vertically). You may need to adjust the column widths of the *Activity Pause* window to print the desired data.

### **Export (available in menu and right-click)**

Exports the *Activity Pause* window to a CSV file. The data in this window will be exported to a CSV file that you specify.

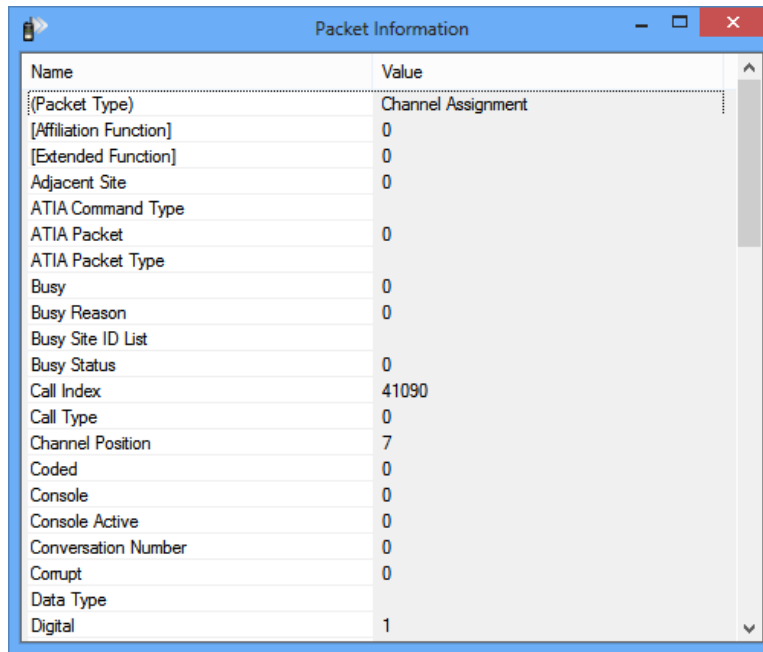
### **Select All... (available in right-click only)**

Contains the following options for selecting like activity in the *Activity Pause* window.

- **Activities on the selected group:** Selects all activities with the same **Group** as the topmost selected activity.
- **Activities from the selected radio ID:** Selects all activities with the same **ID** as the topmost selected activity.
- **Activities of the selected type:** Selects all activities with the same **Description** and **Type** as the topmost selected activity.
- **Activities in the selected conversation:** Selects all activities within the same conversation as the topmost selected activity. This generally involves packets that share a common **Conversation Number** or **Call Index**.

## Activity Details

Each activity shown in the GW\_Activity GUI contains much more information than what is shown in the columns of the activity list. To view this additional information, double-click on the desired packet in either the main window or an *Activity Pause* window. This will show the *Packet Information* window, shown below.



The screenshot shows a window titled "Packet Information" with a table of attributes and values. The table has two columns: "Name" and "Value". The attributes listed include packet type, affiliation function, extended function, adjacent site, ATIA command type, ATIA packet, ATIA packet type, busy status, busy reason, busy site ID list, busy status, call index, call type, channel position, coded, console, console active, conversation number, corrupt, data type, and digital. The values are mostly 0, with Call Index being 41090 and Digital being 1.

Name	Value
{Packet Type}	Channel Assignment
[Affiliation Function]	0
[Extended Function]	0
Adjacent Site	0
ATIA Command Type	
ATIA Packet	0
ATIA Packet Type	
Busy	0
Busy Reason	0
Busy Site ID List	
Busy Status	0
Call Index	41090
Call Type	0
Channel Position	7
Coded	0
Console	0
Console Active	0
Conversation Number	0
Corrupt	0
Data Type	
Digital	1

**Figure 2.6** – Packet Information Window