

GenWatch3® Installation & Quickstart Guide Software Version 2.23.5



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Support

Customer satisfaction is our number one priority at Genesis. We are here to provide you with the best software possible, and we want to know when you have any questions, concerns or problems with GenWatch3 so that we can make it a better product for everyone.

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

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2.16	Revisions Before Release	JPS
2.17	Update hyperlinks	DW
2.17.17	Added GET SNMP option	ATG

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Goals

This document guides you through the GenWatch3 installation and initial setup process. After you complete the steps in this document, you will be ready to configure the input module(s) that GenWatch3 will use to communicate with your system(s).

Who Should Read This Manual?

This document is written for an audience with an understanding of computer and network administration. Specifically, anyone performing an initial installation of GenWatch3 should read this manual.

How This Manual Is Organized

This manual is organized as follows:

- **Installing GenWatch3:** Describes the process of installing GenWatch3.
- **Getting Started:** Instructions on logging into GW_Alert and beginning the GenWatch3 evaluation.
- **Configuring the GW_Security Module:** Instructions on changing the *Admin* login password.
- Configuring the GW_Archiver Module: Instructions on setting up data archiving for reporting and historical data.

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 contains the following sections:

- Warnings: Provides some warnings about GenWatch3 configurations.
- **Minimum Hardware Specifications**: Describes where to find the hardware configuration required to support a GenWatch3 installation.
- **Hardware Enhancement Options**: Describes additional hardware options.
- **GenWatch3 Software Install**: Provides detailed instructions for installing and licensing the GenWatch3 software.
- **Firewall Configuration**: Describes the proper setup of the Windows firewall.
- Advanced Client Setup: Describes the proper setup of clients in a multi-domain environment.
- **Audit Logging**: Describes the audit logging in SQL Server.

Warnings

If you wish to use SQL Server's SNMP integration functionality, you must install Windows SNMP components before SQL Server.

You must install the full version of Microsoft SQL Server on the host machine in order to create a host/client install. SQL Server Express DOES NOT support remote user connectivity on its databases. The full version of Microsoft SQL Server DOES support remote user connectivity.

SQL Server® Standard is recommended for users that wish to archive data and run daily reports. GenWatch3 is shipped with a freeware version of Microsoft SQL Server (SQL Server Express). SQL Server Express is limited by maximum size of 10 GB of archived data. When the maximum size is reached, the database will not be updated with new records and may stop functioning.

- The GenWatch3 machine must use an English-language version of Microsoft Windows.
- The GenWatch3 machine must not use a comma as a decimal symbol in the Number Format under Regional Settings.
- The GenWatch3 machine must not use hyphens in the Date Format under Regional Settings.
- The GenWatch3 machine (client or host) must be a member of a Microsoft Windows network. GenWatch3 relies on DNS resolution for the TCP/IP and SQL connections that it uses. If the machine running GenWatch3 is not a member of a network, the GenWatch3 software will not function properly unless you follow the instructions below.
- If you change the name of the GenWatch3 host computer, you must restart the GenWatch3 service.
- The GenWatch3 service must always be running. Please disable hibernation on the host machine.

Using GenWatch3 Without a Network

If you wish to use GenWatch3 on a machine that is not connected to a network, you must install a loopback adaptor. A hardware loopback adaptor has been included with your GenWatch3 host machine. Connect the adaptor to the machine's Ethernet port as shown below.



The Microsoft KM-TEST Loopback Adapter can be installed if a hardware adaptor is not available. To install this software loopback adapter, follow the steps below.

Windows 10

- 1. Click Start.
- 2. Search for hdwwiz.
- 3. Right click *hdwwiz* and select **Run as Administrator** (click **Yes** if a confirmation dialog appears).
- 4. This will launch the Add Hardware Wizard.
- 5. Click Next.
- 6. Select the **Install the hardware that I manually selected from a list** (**Advanced**) option.
- 7. Click **Next**.
- 8. Select **Network adapters** from the **Common hardware types** list.
- 9. Click **Next**.
- 10. Under the Manufacturer list, select Microsoft.
- 11. Under the **Network Adapter** list, select **Microsoft KM-TEST Loopback Adapter**.
- 12. Click Next.
- 13. On the next window, confirm that **Microsoft KM-TEST Loopback Adaper** is the hardware selected to be installed.
- 14. Click **Next** to start the installation.
- 15. Click **Finish** to complete the process and close the **Add Hardware Wizard**.

Minimum Hardware Specifications

See https://genesisworld.com/resources/

Hardware Enhancement Options

There is no such thing as *too much power*. The following hardware options will improve the performance of GenWatch3:

- **Increase the hard drive speed:** When archiving or reporting on a great deal of data, the hard drive will sometimes become the bottleneck of the system. This can lead to the processor waiting on the hard drive.
- Increase the memory (RAM): When GenWatch3 is processing data on a system with thousands of radio IDs and talkgroups, it uses a lot of memory. If your machine needs more memory than is available, it will begin using the swap file on the hard disk to store data that should be in memory. Because the hard drive operates at a speed that is up to 1000 times slower than memory, it is important to avoid hard drive swapping.
- **Increase the processor speed:** If your machine has a high-performance hard drive and plenty of memory, increasing the processor will increase the performance of the machine.

GenWatch3 Software Install

To begin the software installation process, insert (if on DVD or USB) or browse to the GenWatch3 installation media. If the GenWatch3 setup program does not launch automatically, browse to the installation media's root directory and double-click on *Start.hta*.

Required Software

In order to support GenWatch3, Microsoft's .NET Framework 4.8 or later must be installed on your computer. If it is not already installed, you will see a window similar to the one shown in Figure 1.1. Click **Install** to begin installing .NET Framework.



Figure 1.1 – .NET Framework Installer.

GenWatch3 requires Microsoft SQL Server be installed on this computer or another computer on the network. Standard Edition or higher is required for remote database installations. For local database installations, if SQL Server is not already installed on this computer, SQL Server Express will be installed during the GenWatch3 installation process.

Preparing to Install

After the .NET Framework is installed, the **GenWatch3 Installer** will launch. The *Welcome* screen in Figure 1.2 allows you to begin the installation process or launch any of the installation guides included in the GenWatch3 installation media.



Figure 1.2 – GenWatch3 *Welcome* screen

When you click **Launch Setup**, the GenWatch3 setup process will begin.

The installation of any prerequisite components may require you to restart your computer. After a restart, the installer should resume the setup process automatically. If it does not, browse to the GenWatch3 installation media's root directory and double-click on *Start.hta*.

Install Screens

Installation screen

On the *Installation* screen, select to install software or database only.



Figure 1.3 – Installation Screen

Database Only Screen

If you select **Database Only** on the *Installation* screen, you will see the *Database Only* screen (Figure 1.4). This screen allows you to deploy GenWatch3 related databases only. It will not install the application itself.

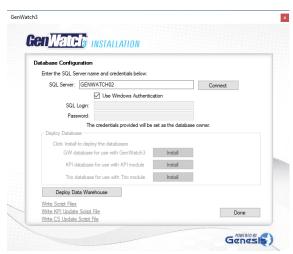


Figure 1.4 – Database Only Screen

- **SQL Server:** The SQL Server instance where the database(s) should be installed.
- **Use Windows Authentication:** Use the current Windows user to connect to the SQL Server instance.
- **SQL Login/Password:** The SQL user credentials to connect to the SQL Server instance if **Use Windows Authentication** will not be used.
- 1. Click **Connect** to connect to the specified SQL Server.
 - a. Once the connection is validated and successful, you will be able to deploy the database(s).
- 2. Click **Install** next to the desired database to deploy it.
- 3. Repeat for each desired database.

If you wish to manually create or update the GenWatch3 databases, you may access the database script files directly via the **Write Script Files** link. To manually update an existing KPI database, use the **Write KPI Update Script File** link. To manually add Configuration Services to an existing GW database, use the **Write CS Update Script File** link.

GW Warehouse Screen

Clicking **Deploy Data Warehouse** on the *Database Only* screen will show the *GW Warehouse* screen (Figure 1.5).

The GW Warehouse is a database used for long term storage and reporting on deployments in which the call volume prohibits reporting directly from the primary GW database.

- 1. Select a SQL Server for the warehouse This should be a SQL Server running on a separate machine from the primary GW database.
- 2. Provide Administrative level credentials to the selected SQL Server.
- 3. Click **Test Connection** The connection is tested and validated. If the SQL Server is not valid for warehouse installation the reason is displayed.
- 4. Click **Deploy Warehouse** The warehouse is deployed to the SQL Server.

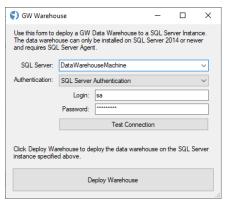


Figure 1.5 – *GW Warehouse* screen

Installation Folder Screen

If you select **GenWatch3 Software** on the *Installation* screen, you will see the *Installation Folder* screen (Figure 1.6). On this screen, you can choose the directory where the GenWatch3 application files will be installed.

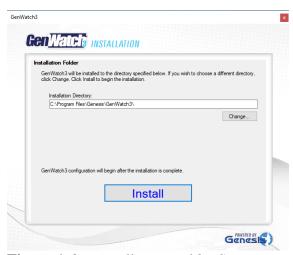


Figure 1.6 – Installation Folder Screen

Click **Install** to install the GenWatch application files to the chosen directory. You will see a progress bar as GenWatch3 is installed. Once complete, you will be able to configure the installation and the *Setup Type* screen will be shown.

Configuration Screens

Setup Type Screen

At the *Setup Type* screen (Figure 1.7) choose the type of GenWatch3 configuration you wish to perform: **Host** or **Client**.

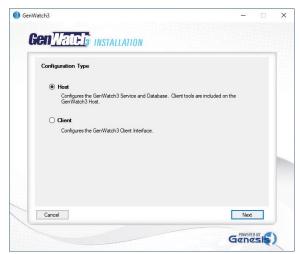


Figure 1.7 – *Setup Type* screen

- **Host:** Select **Host** to install the GenWatch3 service and the GenWatch3 interfaces. If GenWatch3 will be installed on one machine, select **Host**.
- **Client:** Select **Client** to install only the GenWatch3 interfaces. These are used to display information processed and stored by a GenWatch3 host.

Optional Features

At the *Optional Features* screen (Figure 1.8) review the available features and select those you wish to enable.

Additional features:

- **NetVista:** This option should be selected only if GenGET ATIA is also installed. Selecting this option will enable the *GenGET Database Options* screen.
- **Trio:** This option should be selected if the Trio module has been purchased to use on this GenWatch3 installation.
- **Setup SNMP Master Agent:** This option should be selected if this GenWatch3 installation needs to be able to send SNMP messages. Selecting this option will enable the *GET SNMP Master Agent Options* screen.
- **Setup RPC CAD:** This option is required for GW_Connect: CADI and GW_Halcyon: RPC connections to function correctly.
- **GET APM:** This option should be selected only if GenGET APM is also installed. Selecting this option will enable the *GenGET Database Options* screen.
- **GET SNMP:** This option should be selected only if GenGET SNMP is also installed. Selecting this option will enable the *GenGET Database Options* screen.



Figure 1.8 – Optional Features screen

GenGET Database Options Screen

The *GenGET Database Options* screen (Figure 1.9) allows the configuration of options related to GET products. This screen only displays if the **NetVista**, **GET APM**, or **GET SNMP** options were selected on the Optional Features screen.

The GenGET Connection buttons will be colored red initially. They will change to green once the connection is successfully configured.

GenGET Connections

- ATIA: Click this button to provide the information required to connect to the GenGET ATIA database. Only visible if NetVista was selected on the *Optional Features* screen.
- APM: Click this button to provide the information required to connect to the GenGET APM database. Only visible if GET APM was selected on the *Optional Features* screen.
- SNMP: Click this button to provide the information required to connect to the GenGET SNMP database. Only visible if GET SNMP was selected on the *Optional Features* screen.
- **GenGET Report User Password:** The password that will be used to run GenGET reports in GW_Reports. The GenGET Report User is named ReportsGW.
- Additional Databases: Click this button to provide the information required to connect to optional GET databases. This can be used to create the reporting user in the GET databases.



Figure 1.9 – *GenGET Database Options* screen

GET SNMP Master Agent Options Screen

The *GET SNMP Master Agent Options* screen (Figure 1.10) prompts you to set the configuration password for the GET SNMP Master Agent. This screen only displays if the **Setup SNMP Master Agent** option was selected on the *Optional Features* screen.



Figure 1.10 – GET SNMP Master Agent Options screen

Database Options Screen

The *Database Options* screen (Figure 1.11) allows you to choose an SQL Server Instance to host the GW database. The selection will default to the local, default instance of SQL Server if it exists. If there is not a default instance installed, the *<Install SQL Express>* option will be available. Click *<Browse for more>* to search the network for existing SQL Server instances. The server and instance name may also be entered manually.



The *<Browse for more>* option may not find all SQL Servers on the network.

Authentication provides the following options:

- Windows Authentication Setup will log into the database using the current Windows user account.
- *SQL Server Authentication* Setup will log into the database using the specified SQL user credentials. The credentials entered must have system administrator privileges on the SQL Server instance.

Check **Configure Data Warehouse** to deploy the GenWatch3 data warehouse. Refer to the *GW Warehouse Screen* section section earlier in this chapter for details

Check **Specify database directory** to choose the directory for the database.

Click **Next** to continue.

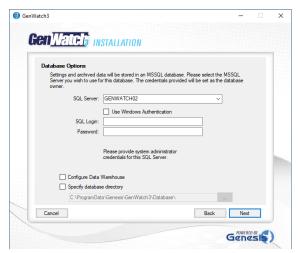


Figure 1.11 – Database Options screen



Remote Database Considerations

- **Domain Users** This account may need to be added to the Domain Users group
- Workgroup Users This account must exist on the database machine and all client machines

Database Names Screen

The *Database Names* screen (Figure 1.12) prompts you enter names for the databases used by GenWatch3. Renaming the databases is optional and you can continue the setup without changing them.

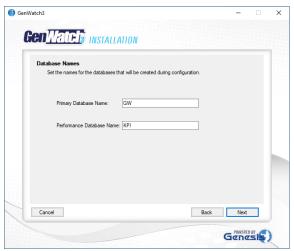


Figure 1.12 – Database Names screen

Admin Password Screen

The *Admin Password* screen (Figure 1.13) prompts you to set the *Admin* password. The *Admin* account is created during the configuration and is used to login to GenWatch3 when the configuration is complete.

Click **Next** to continue.

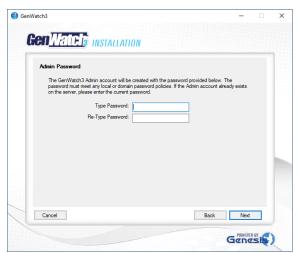


Figure 1.13 – Admin Password screen

The password provided must meet the password policy in SQL Server. Some policies require a combination of upper-case, lower-case, and numeric values.

GenWatch3 creates the *Admin* login on the SQL Server instance and associates it with the *Admin* user it also creates in the Primary, Performance (and Trio if selected) GenWatch3 databases. This is not a Windows login user.

Service Account Screen

The *Service Account* screen (Figure 1.14) prompts you to set the account used to run the GenWatch3 service. The same credentials are used for the GET SNMP Master Agent service if it is installed. An SQL Login is automatically added for the credentials specified.

Click **Next** to continue.

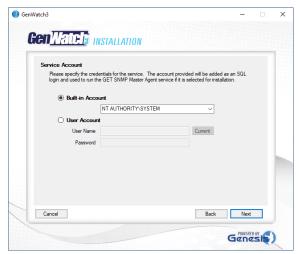


Figure 1.14 – Service Account screen

REST API Options Screen

The *REST API Options* screen (Figure 1.15) prompts you to set the port for the GenWatch3 REST API. This API is used for communication between GenWatch3 and the Genesis iVista and GenGET products.

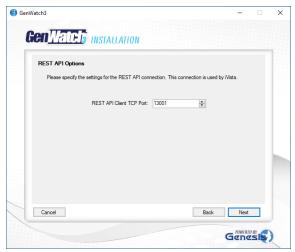


Figure 1.15 – REST API Options screen

Configuration Options Screen

The *Configuration Options* screen (Figure 1.16) allows you to select what options you would like to enable or install.

Click **Next** to continue.



Figure 1.16 – Configuration Options screen

The **Use Windows User Impersonation** option requires that any Windows user that logs into GenWatch3 must have the same SQL server and database permissions as that of the account under which the GenWatch3 service runs. These permissions are listed below:

- For each of the databases created by GenWatch3 (GW, KPI, and Trio) the user must be assigned to the built-in *db_securityadmin* role as well as the *db_gw3service* role created in each database during the installation of GenWatch3.
- The user must be assigned the **GRANT** option on the **ALTER ANY CONNECTION** server level permission.
- Additionally, the Windows user cannot have higher permission levels on the SQL server and databases than the GenWatch3 service account as SQL Server will prevent the service from impersonating a user with more permissions than itself.

Ready To Configure Screen

When all configuration information has been collected, both host and client setup types will show the *Ready to Configure* screen shown in Figure 1.17.

Click **Apply** to begin configuring GenWatch3.



Figure 1.17 – *Ready to Configure* screen

SQL Server Express Installation Screens

If you choose to install SQL Server Express you will see screens similar to the ones in Figure 1.18 and 1.19 as SQL installs on the local machine.

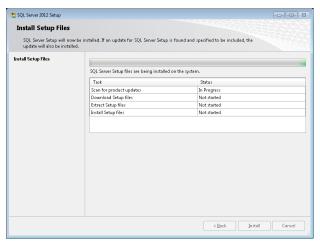


Figure 1.18 – SQL Server Express Installation

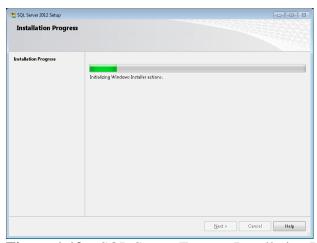


Figure 1.19 – SQL Server Express Installation Progress

Configuration in Progress Screen

Please wait while GenWatch3 is configured. You will see the *Configuration in Progress* screen like the one shown in Figure 1.20. You may also see several DOS/Command windows pop up and disappear in the background. They are performing background configuration and are normal.

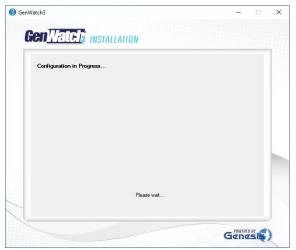


Figure 1.20 – *Configuration in Progress* screen

Configuration Complete

When the configuration finishes, you will see the *Configuration Complete* screen, as shown in Figure 1.21.





Figure 1.21 – *Configuration Complete* screen

You will notice that GenWatch3 shortcuts have been added to your desktop and start menu. GW_Alert has also been added as a Start Up app to ensure the GenWatch3 interfaces start with Windows.

To launch the GW_Alert manually, double-click the **LaunchPad** icon on your desktop, or go to the **Windows Start** menu and navigate to **Programs** → **Genesis** → **LaunchPad**.

Please see the following chapters of this document for instructions on launching and configuring GenWatch3.

Positioning Yourself for Client Deployment

For GenWatch3 installs with multiple clients, clients can be automatically upgraded the next time a user logs in from the client.

Setting the Service Account Manually

If you wish to change the service account or if you install the Windows Hardening Kit after installation, you must set the service account manually by following the steps below:

Changing the service account will cause any saved passwords to become inaccessible. Be sure to have the passwords readily available. Any connections requiring passwords will not connect after the service account has been changed until the password is reentered in the connection settings. Additionally, if GenGET reports are run via GW_Reports, the GenGET Reports User Password must be updated. Contact Genesis Support to do so.

- 1. First ensure the desired account has the following privileges:
 - a. Windows Privileges
 - i. **Full control** of the GenWatch3 program data directory. Refer to Windows documentation for instructions on setting up this privilege.
 - b. SQL Server Privileges
 - i. A login with the following privileges:
 - 1. Alter any login
 - 2. Alter any connection
 - ii. A user in the GW database with the following roles:
 - 1. db gw3service
 - 2. db securityadmin
 - iii. A user in the KPI database with the following roles:
 - 1. db gw3service
 - 2. db securityadmin
 - iv. If Trio is in use, a user in the Trio database with the following roles:
 - 1. db_gw3service
 - 2. db securityadmin

Please see the *SQL Server Security* section below for more information on creating a user with the required database permissions.

- 2. Close all GenWatch3 clients connected to the GenWatch3 host.
 - a. Each GenWatch3 client must close all modules and exit GW_Alert.
 - b. Verify from the GenWatch3 host that all clients have logged off using the **current users** list in the **Security** module. Figure 1.22 shows that only the Admin account is logged in.

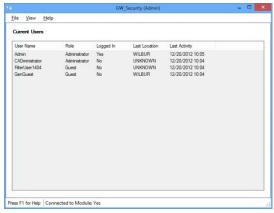


Figure 1.22 – Current Users List

- c. Close all modules on the host machine and exit GW_Alert.
- 3. Stop the GenWatchService.
 - a. Right-click My Computer and select Manage.
 - b. Select Services then select the GenWatchService.
 - c. Click the **Stop** button. (Figure 1.23)
 - d. Leave this window open.

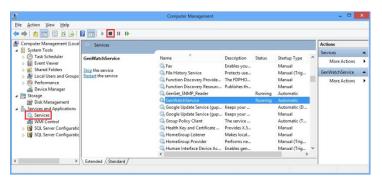


Figure 1.23 – Computer Management → Services

- 4. Update the GenWatchService logon credentials.
 - a. Within the *Computer Management* screen, right-click
 GenWatchService and select Properties then go to the Log On tab.
 - b. Type the username and password into the appropriate fields. (Figure 1.24)

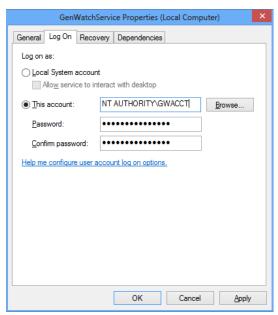


Figure 1.24 – Update the Account credentials

- 5. Start the GenWatchService.
 - a. Within Computer Management, select the **GenWatchService**.
 - b. Click the **Play** button. (Figure 1.25)

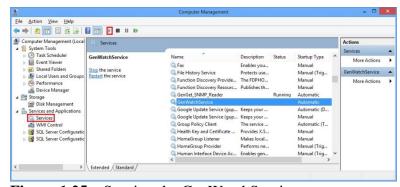


Figure 1.25 – Starting the GenWatchService

- 6. Login to the GenWatch3 host and ensure the service is running properly.
- 7. Update any saved passwords for connections and the GenGET Reports User.
- 8. Inform GenWatch3 clients that they may now launch GW_Alert and connect to the host machine.

SQL Server Security

The GenWatchService requires the Windows user to exist in SQL Server's security. To add a Windows user to SQL Server security, follow the steps below:

- 1. Open SQL Server Management Studio.
- 2. Login to the SQL server as sa or a user with the securityadmin role.
- 3. Under the *Security* folder, right-click on the *Logins* folder and choose *New Login*...
- 4. In *Login Name*, enter the Windows username, including the domain (i.e. myDomain\GenWatchServiceTheWindowsUser). You can click **Search...** to search for domain users.
- 5. Choose Windows authentication.
- 6. For Default database, choose GW.
- 7. On the *User Mapping* page under *Users mapped to this login*, check the GW database.
- 8. In the *Database role membership for: GW* choose only *db_gw3service*, *db_securityadmin* and *public*.
- 9. On the Securables page, click the Search... button.
- 10. Choose *The server 'Servername'* and click **OK**.
- 11. Check the *Grant* boxes for *Alter any connection*, *Alter any login*, and *Connect SQL*.
- 12. Click **OK**.
- 13. Follow steps 7-13 for the KPI database.
- 14. If Trio is in use, follow steps 7-13 for the Trio database.

SNMP Configuration

This section describes the process of setting up the *GET SNMP Master Agent Service* (GSMAS) for use with GenWatch3. If you do not intend to use SNMP functionality within GenWatch3, you may skip this section.

Install the Windows features for SNMP available in Control Panel > Programs and Features > Turn Windows features on or off

- Simple Network Management Protocol (SNMP) (also known as the SNMP Service) is required
- WMI SNMP Provider is not required

Stop any other SNMP agent applications on the machine and set their Start Up type to Disabled.

 Microsoft's SNMP agent applications can be stopped in the Windows service manager. They are called "SNMP Trap" and "SNMP Service". The GSMAS loads their associated application libraries so that any applications depending on them can instead depend on GSMAS.

Now, start the *GETSNMPMasterAgentService* via the *Computer Management* window (Figure 1.26). To access this window, right-click on **My Computer** and select **Manage.** Then expand **Services and Applications** and select **Services.** Select the *GETSNMPMasterAgentService* and click **Start.**

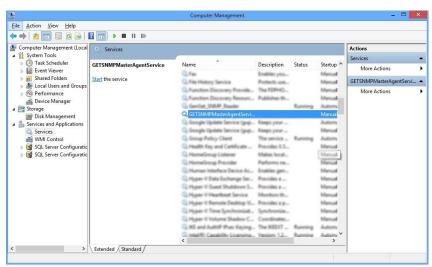


Figure 1.26 – Computer Management

Browse to the SNMP Master Agent Config directory using Windows Explorer as shown in Figure 1.27. This directory may be hidden by default. Run the GET SNMP Master Agent Service Settings **As Administrator**: *C:\Program Files\Genesis\GenGET\SNMP Master Agent\SNMP Master Agent Config*

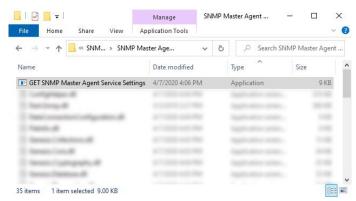


Figure 1.27 – Master Agent Config Directory

The *Master Agent Settings* (Figure 1.28) window will be displayed after you select the configuration file. Set the **Local Address** setting to the machine IP address. Then, click **Add User** under the **Security** tab to create the SNMPv3 user. Click **OK** to save the changes.

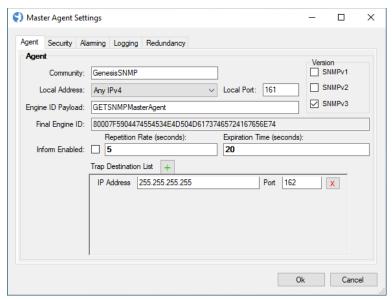


Figure 1.28 – Master Agent Settings

Engine ID Payload field is ASCII text and the preview shows the Final Engine ID in Hexadecimal.

This completes the setup process for the GET SNMP Master Agent Service.

GenWatch3 Client Upgrade

To begin the client upgrade process, insert (if on DVD or USB) or browse to the GenWatch3 installation media. If the GenWatch3 setup program does not launch automatically, browse to the installation media's root directory and double-click on *Start.hta*.

Required Software

In order to support GenWatch3, Microsoft's .NET Framework 4.8 or later must be installed on your computer. If it is not already installed, you will see a window like the one shown in Figure 1.29. Click **Install** to begin installing or upgrading .NET Framework.

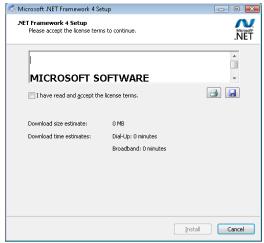


Figure 1.29 – .NET Framework Installer.

Preparing to Install

After the .NET Framework is installed or upgraded as needed, the **GenWatch3 Installer** will launch. The *Welcome* screen in Figure 1.30 allows you to begin the upgrade process.



Figure 1.30 – Upgrade Screen

Click on **GenWatch3 Upgrade** to begin the upgrade process. Please wait for the process to complete upgrading.

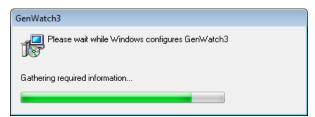


Figure 1.31 – Upgrade in progress

Click **OK** to exit the Client Upgrade program.



Figure 1.32 – Configuration Completed screen

Remote Database Configuration

Remote database configurations require a dedicated user for the GenWatch3 service. If the installation is on a domain, this user must be added to the **Domain Users** group. If this is a workgroup installation, the user must be created on both the GenWatch3 host and database machines. To create this user, open the *Control Panel* and select *User Accounts*, then open *Manager User Accounts* and click **Add.** (Figure 1.33)

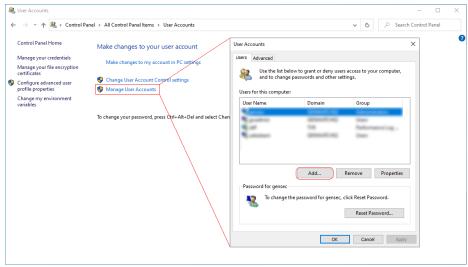


Figure 1.33 – Navigation to User Accounts

Allow the GenWatch3 service user and any additional client users to access the database machine over the network. On the database machine, open the control panel and launch the *Administrative Tools*. Then, launch the *Local Security Policy* window and select *User Rights Assignment* under *Local Policies*. (Figure 1.34)



Figure 1.34 – Navigation to Local Security Policy

Double-click on *Access this computer from the network* to display the list of allowed users. Then, click **Add User or Group** to add the desired users to this policy thus allowing the users to access this machine. (Figure 1.35)

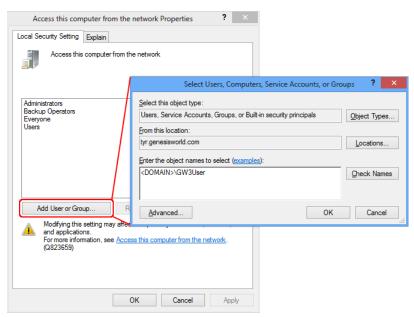


Figure 1.35 – Adding users to the policy

If you have many users to add, consider creating a new group for GenWatch3 users. You can then add that group to the policy above thus, giving all its members access.

Finally, during the GenWatch3 Host installation, specify the GenWatch3 service user on the *Service Account* screen (Figure 1.14). This will automatically add a SQL Server login for the user.

Firewall Configuration

Windows 10/Server 2016

The following programs must be allowed through the Windows Firewall:

- GenWatch.exe This is the GenWatch3 service executable.
 C:\Program Files\Genesis\Genwatch3\GenWatch.exe
- SqlServer.exe

C:\Program Files\Microsoft SQL Server\MSSQL.1\MSSQL\Binn\sqlservr.exe

• SqlBrowser.exe

C:\ Program Files (x86)\Microsoft SQL Server\90\Shared\sqlbrowser.exe

SqlBrowser is required if the databases are installed on a named SQL instance.

To access the Windows Firewall setting within Windows 10/Server 2016:

Control Panel → System and Security → Windows Firewall → Allow an app through Windows Firewall

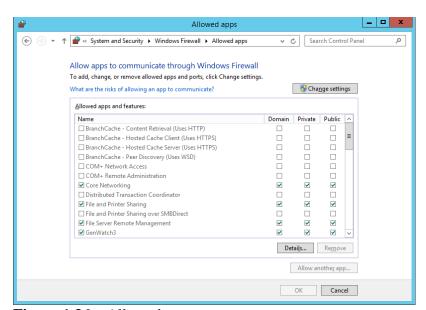


Figure 1.36 – Allowed apps

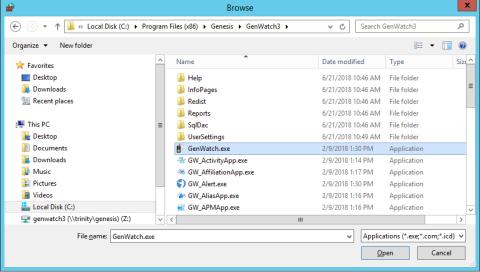
To add a program to the Windows Firewall exception list:

- 1. Click the **Change Settings** button to enable changes.
- 2. Click **Allow another app...** to launch the *Add an app* window



3. If the desired app does not display in the Apps list click on the **Browse...** button to navigate to program executable desired (ex. C:\Program Files\Genesis\GenWatch3\GenWatch.exe). Select the .exe file of the program you would like to add then click **Open**, this returns you to the

Add an app window.



4. Click **Add**. This adds the program to the exception list and checks it to be exempt.

Please see the following chapters of this document for instructions on launching and configuring GenWatch3.

Advanced Client Setup

On host installs using encryption (this is the default) clients that are not on the same domain as the host require Windows permission to be configured before the client will be able to connect to the host. The following steps will add a client's domain to the host's list of trusted domains and allow encrypted communication between host and client.

Creating a domain trust relationship

In order to complete the steps below, if there are multiple domains involved, the domains must have a pre-defined trusted relationship. Setting up this trusted relationship is outside of the scope of this documentation.

Adding a user to a group

- 1. Open the Computer Management tool:
 - Windows 10: Right click on the Start button → Right click
 Computer → Click Computer Managment (click Yes if permission is required).
- 2. Click on **Groups** located under Computer Management → System Tools → Local Users and Groups in the tree view in the left pane.
- 3. Double click the group you would like to add the Client(s) username(s) to.
- 4. Click **Add** on the Administrators Properties and enter the username(s) to be used on the client machine(s) and click **OK**.
- 5. Close the Computer Management tool and proceed to the *Adding a Trusted Group* section.

Adding a Trusted Group

- 1. On the host machine open Control Panel and launch Administrative Tools.
 - Windows 10: Control Panel → System and Security → Administrative Tools
- 2. Double click on **Local Security Policy** in the Administrative Tools folder.
- 3. Navigate to "Access this Computer from the network."
 - Windows 10: Security Settings → Local Policies (located on the left hand menu).
 - User Rights Assignment → Access this Computer from the network.
- 4. If a desired local group is not already in the list, you will need to add a local group to the list by selecting the **Add User or Group...** button and entering the group name.

Audit Logging

NOTE: For SQL Server 2016 RTM, 2014 and earlier, Audit logging is only available on Microsoft SQL Server Enterprise edition. For SQL Server 2016 SP1 and later, it is available on all editions.

Overview

SQL audit logging stores detailed information regarding pre-determined categories of SQL activity, such as adds, inserts, deletes. Each time-stamped activity is tied to a Windows user and describes the target table and action taken on that table.

Audit Logging Setup

Audit logging consists of two parts: server audits and database audit specifications. The server audit contains the rules regarding logging type (event log or file), maximum log size, roll-over, etc. The database audit specification contains the rules on what types of events to audit on a specific database.

Config File Options

In order to associate a Windows user with the SQL actions, you must edit the GenWatch3.config file. The GenWatch3.config file is in the following folder: <*ProgramData*>*Genesis**GenWatch3*

In the GenWatch3.config file, set the following options: <UseTcpEncryption>1</UseTcpEncryption> <Impersonate>1</Impersonate>

Before enabling the above config file options, each Windows user that runs the GenWatch3 client must be setup in SQL Server security. The process of setting up these users is described below.

SQL Server Security

SQL impersonation (executing SQL statements on behalf of the Windows user) requires the Windows user or a Windows Security Group assigned to the Windows user to exist in SQL server's security and as a user on the GW database. To add a Windows user or a Windows Security Group to SQL security and the GenWatch3-related databases, follow the steps below:

- 1. Open SQL Server Management Studio.
- 2. Login to the SQL server as sa or a user with the securityadmin role.
- 3. Under the *Security* folder, right-click on the *Logins* folder and choose *New Login*...
- 4. In *Login Name*, enter the Windows username or Windows Security Group, including the domain (i.e. myDomain\GenWatchServiceTheWindowsUser or myDomain\Gw3Users). You can click **Search...** to search for domain users.
- 5. Choose Windows authentication.
- 6. For *Default database*, choose GW.

- 7. On the *User Mapping* page under *Users mapped to this login*, check the GW database.
- 8. In the *Database role membership for: GW* choose only *db_gwuser*
- 9. Follow steps 7-8 for the KPI database.
- 10. If Trio is in use, follow steps 7-8 for the Trio database.
- 11. Execute the following SQL query to grant impersonation permissions for the Windows login. Replace <Windows login> with the Windows login created above. Replace <GenWatch Service Account> with the account under which the GenWatch3 service runs:

```
USE [master]
GRANT IMPERSONATE ON LOGIN::[<Windows login>] to [<GenWatch Service
Account>];
```

Setup for the Security Admin User

When using impersonation, to allow a Windows user to add, update and delete SQL logins in GenWatch3, you must add the Windows user as a login to SQL. To add a Windows user for security administration in GenWatch3 to SQL, follow the steps below:

- 1. Open SQL Server Management Studio.
- 2. Login to the SQL server as sa or a user with the securityadmin role.
- 3. Under the *Security* folder, right-click on the *Logins* folder and choose *New Login*...
- 4. In *Login Name*, enter the Windows username or Windows Security Group, including the domain (i.e. myDomain\GenWatchServiceTheWindowsUser or myDomain\Gw3Users). You can click **Search...** to search for domain users.
- 5. Choose *Windows authentication*.
- 6. For Default database, choose GW.
- 7. On the *User Mapping* page under *Users mapped to this login*, check the GW database.
- 8. In the *Database role membership for: GW* choose only *db_gw3service*, *db_securityadmin* and *public*.
- 9. On the Securables page, click the **Search...** button.
- 10. Choose *The server 'Servername'* and click **OK**.
- 11. Check the *Grant* boxes for *Alter any connection*, *Alter any login*, and *Connect SQL*.
- 12. Click **OK**.
- 13. Follow steps 7-12 for the KPI database.
- 14. If Trio is in use, follow steps 7-12 for the Trio database.
- 15. Execute the following SQL query to grant impersonation permissions for the Windows login. Replace <Windows login> with the Windows login created

above. Replace <GenWatch Service Account> with the account under which the GenWatch3 service runs:

```
USE [master]
GRANT IMPERSONATE ON LOGIN::[<Windows login>] to [<GenWatch Service
Account>];
```

SQL Audit Logging Setup via SQL Script

The following script creates a server audit and database audit specifications that:

- Writes to files in path C:\SQLAuditFiles with a maximum size of 1 GB.
- The account includes up to 30 files. Once the thirty-first 1GB file is created, the oldest audit file is purged.
- Allows SQL server to continue if the auditing feature experiences a failure.
- Logs delete, update and insert actions taken on tables in the GW database by any user.

```
USE [GW]
ALTER DATABASE AUDIT SPECIFICATION [GwAuditSpec-27f07a15-61bd-4f9d-8034-5221880b543c]
WITH (STATE = OFF)
DROP DATABASE AUDIT SPECIFICATION [GwAuditSpec-27f07a15-61bd-4f9d-8034-5221880b543c]
GO
```

```
USE [MASTER]
ALTER SERVER AUDIT [GwAudit-27f07a15-61bd-4f9d-8034-5221880b543c] WITH
(STATE = OFF)
DROP SERVER AUDIT [GwAudit-27f07a15-61bd-4f9d-8034-5221880b543c];
CREATE SERVER AUDIT [GwAudit-27f07a15-61bd-4f9d-8034-5221880b543c]
TO FILE
       FILEPATH = N'C:\SQLAuditFiles\'
       ,MAXSIZE = 1 GB
       ,MAX ROLLOVER FILES = 30
       , RESERVE DISK SPACE = OFF
WITH
       QUEUE_DELAY = 0
       ON FAILURE = CONTINUE
       ,AUDIT_GUID = '27f07a15-61bd-4f9d-8034-5221880b543c'
ALTER SERVER AUDIT [GwAudit-27f07a15-61bd-4f9d-8034-5221880b543c] WITH
(STATE = ON)
GO
```

```
USE [GW]
CREATE DATABASE AUDIT SPECIFICATION [GwAuditSpec-27f07a15-61bd-4f9d-8034-5221880b543c]
FOR SERVER AUDIT [GwAudit-27f07a15-61bd-4f9d-8034-5221880b543c]
ADD (DELETE ON DATABASE::[GW] BY [public]),
ADD (UPDATE ON DATABASE::[GW] BY [public]),
ADD (INSERT ON DATABASE::[GW] BY [public])
WITH (STATE = ON)
GO
```



The file specified in the FILEPATH in the second query box must exist before running the query.

Viewing Audit Activity

Audit log events are viable via an SQL query. The query targets the path and file name of a specific audit log file. You can find the audit files in the FILEPATH specified when we created the server audit. In the above example, it is *C:\SQLAuditFiles*. You will need to replace the file path and name, highlighted red in the below examples, with the FILEPATH used when creating the audit log (see section above) and name of the specific audit file you are reporting on.

Example 1: All actions, ordered newest to oldest, from the targeted audit file.

```
FROM

sys.fn_get_audit_file('C:\SQLAuditFiles\GwAudit-27f07a15-61bd-4f9d-8034-5221880b543c_27F07A15-61BD-4F9D-8034-5221880B543C_0_130129429718070000.sqlaudit', default, default)

ORDER BY

event_time DESC
```

Example 2: Specific columns from all successful actions performed on behalf of user $myDomain \setminus BobTheWindowsUser$, ordered newest to oldest, from the targeted audit file.

```
SELECT
       event time,
       action id,
       session server principal name,
       server_principal_name,
      object_name,
       statement
FROM
       sys.fn get audit file('C:\SQLAuditFiles\GwAudit-27f07a15-61bd-4f9d-
8034-5221880b543c 27F07A15-61BD-4F9D-8034-
5221880B543C_0_130129429718070000.sqlaudit', default, default)
WHERE
       succeeded = 1
      AND server principal name = 'myDomain\BobTheWindowsUser'
ORDER BY
       event_time DESC
```

After you install GenWatch3 on your machine, you are ready to configure your GenWatch3 modules for operation on your system. Follow the steps below to configure GenWatch3:

- Chapter 2: Loading GW_Alert
- Chapter 2: Logging into GW_Alert
- Chapter 2: Loading GW_LaunchPad
- **Chapter 2**: Activating the GenWatch3 license (skip if your machine came pre-licensed)
- **Chapter 3**: Configuring the GW_Security module
- **Chapter 4**: Configuring the GW_Archiver module (if you purchased GW_Archiver)

Loading GW_Alert

GW_Alert is a System Tray application. This means that this application does not display a form while it is running. Instead, it shows an icon in the Windows System Tray (the bottom-right area of your desktop next to the time). GW_Alert will show one of the following icons:

- This icon indicates that the GW_Alert application is running and is currently connected to the GenWatch3 service.
- W: This icon indicates that the GW_Alert application is running and is not currently connected to the GenWatch3 service.

The GenWatch3 Installer add GW_Alert to the Windows Startup Apps. This means that when Windows starts up (after reboot, power off, etc.), Windows loads GW_Alert automatically.

If you do not see one of the above icons in your Windows System Tray, you may need to start GW_Alert. To start GW_Alert take the following steps:

- 1. Click on the **Windows Start** button
- 2. Click on **All Programs** (or **Programs** in some versions of Windows)
- 3. Click on **Genesis**
- 4. Click the **LaunchPad** icon: This will load GW_Alert and show one of the above icons in the System Tray.

Logging into GW_Alert

The first step to running GW_Alert is logging in. After you (or Windows) load GW_Alert, you will see the following window (shown in Figure 2.1 after the user has optionally clicked **Advanced**):



Figure 2.1 – GenWatch3 Login Window

This window contains the following items or note:

- **Authentication:** Type of authentication used to log into GenWatch3. Options include Genesis and Windows.
- **Username:** GenWatch3 username you wish to login with. This box will contain the username that last logged in.
- **Password:** Password of the GenWatch3 user entered in the **Username** field.
- **Host Machine Name:** Enter the GenWatch3 Host machine name here. This entry is "remembered" after the initial login.
- Cancel: Click this button to cancel login and not load GW_Alert
- **Login:** Click this button once you have entered or verified the **Username** and **Password**.
- Advanced: Displays or hides the host entry field.

GenWatch3 uses your login information provided in this login window for GW_LaunchPad and all other GenWatch3 windows. In GW_LaunchPad, click the **Switch User** item under the **File** menu to log in as a different user.

Loading GW_LaunchPad

GW_LaunchPad is your entry point for GenWatch3 and is therefore important to all GenWatch3 users. From it you will launch all modules, configure database and host settings, and manage your license. GW_LaunchPad will automatically load each time you login to GW_Alert.

To load GW_LaunchPad, follow the steps below:

- 1. Right-click on the GW_Alert icon in the Windows System Tray (see above section for more information on GW_Alert): This will show the GW_Alert menu.
- Modules
 Tools
 Emergencies

 Close All Modules
 Exit

GW LaunchPad

2. Click **GW_LaunchPad** in the GW_Alert menu: This will load GW_LaunchPad. (If you have not activated your license the GenWatch3 License Manager will load in place of GW_LaunchPad. See the section below to activate your license)

You can also load GW_LaunchPad by double-clicking the GW_Alert icon in the Windows System Tray.

Activating the GenWatch3 License

You must activate the GenWatch3 license in order to evaluate GenWatch3 or to set the product as Released after you purchase a license. To activate your license for GenWatch3, follow the steps below:

- 1. Login to GW_Alert. If GenWatch3 is not licensed, the *Activate Product(s)* window will load directly. If GW_LaunchPad loads, click the **View License** button and then **Activate Product(s)**.
- 2. Select the ENTIRE code in the **Request Code** box.
- 3. Right-click on the selected code: This will show an edit pop-up menu with options including **Copy**.
- 4. Choose **Copy** from the edit pop-up menu.
- 5. Open your email application and create a new email to support@genesisworld.com.
- 6. Right-click in the body of the email: This will show an edit pop-up menu with options including **Paste**.
- 7. Choose **Paste** from the edit pop-up menu: This will paste your Request Code into the email exactly as it was on the *Activate Product(s)* window.
- 8. Also include in the email your company name and your contact information and/or GenWatch3 PO number.
- 9. Send the email.
- 10. Contact Genesis support (see the *Support* section of this manual): They will assist you with the rest of the activation process.

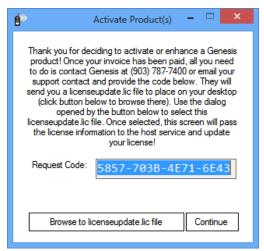


Figure 2.2 – Activate Product(s)

What is GW_Security?

The GW_Security module provides functionality for managing users of your GenWatch3 software. This includes creating, deleting, editing, and managing roles for users.

The GW_Security module provides the user *Admin* with a password specified during install. The role of this user is to allow you to log into GW_LaunchPad and GW_Security with full administrator access. The first step here will be to consider changing the password for the user Admin. This may be desired because all systems shipped with GenWatch3 pre-installed will have the same Admin password.

As with all passwords, keep your GenWatch3 password in a safe place! If you do lose or forget your Administrator password, you will need to get your Database administrator to log into SQL Server and reset the password for the Admin login.

Loading the GW_Security Edit Window

Load the edit window for the GW_Security module by following the steps below:

- 1. Load GW_LaunchPad (see *Loading GW_LaunchPad* in *Chapter 2 Getting Started* of this book).
- 2. Locate the GW Security module icon in the *Modules* list.
- 3. Double-click the GW_Security icon: This will load the GW_Security window.

Changing the Password for the Admin User

Change the password for the Admin user by following the steps below:

- 1. Load the GW_Security GUI (see the above section).
- 2. Select **Users** from the View menu: This will show the user administration panel.
- 3. Select the *Admin* user from the **User Names** list.
- 4. Click on the **Change Password** button.
- 5. When prompted, enter the current (initial) password for *Admin* (specified during install).
- 6. Next, enter the desired new password and confirm the password.
- 7. Click **OK** to finish changing the password.
- 8. Close the GW_Security window by clicking the **X** button or by clicking **Exit** under the **File** menu.

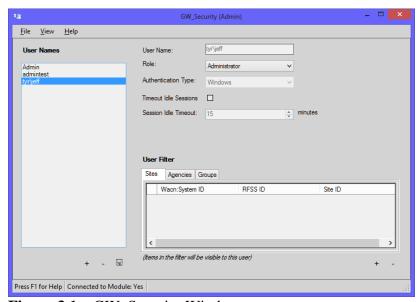


Figure 3.1 – GW_Security Window

At this time, you can create any other users that are necessary for your system. If you do not create them now, you can always come back to the GW_Security module and create them later. For more information on the GW_Security module, see the *GenWatch3 Core Manual*.

What is GW Archiver?

The GW_Archiver module stores control channel packets into data files. Each type of packet is stored in its own table within an SQL database. These databases are queried by the GenWatch3 Reporting Tools.

Since archiving is disk-intensive and can easily consume a large portion of your hard drive, all packet types are set not to archive by default. You will need to activate archiving for the packet types that you wish to store.

The section below describes how to activate archiving.

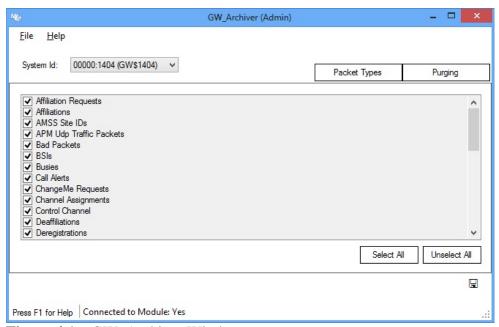


Figure 4.1 – GW_Archiver Window

Loading the GW_Archiver Edit Window

Launch the edit window for the GW_Archiver module by following the steps below:

- 1. Launch the GW_LaunchPad (see *Loading GW_LaunchPad* in *Chapter 2 Getting Started* of this book).
- 2. Locate the GW Archiver module icon in the *Modules* list.
- 3. Double-click the GW_Archiver icon: This will load the GW_Archiver GUI.

Choosing Archived Packet Types

The GW_Archiver GUI allows you to choose which packet types to archive. Selecting which packets to archive allows you to store the information you want for longer periods of time than if you were archiving everything. For instance, if you only cared about emergency alerts, you could likely store them for many times the life of your system, where if you were archiving everything, you could only store six months' to a year's worth, depending on your system activity.

Follow the steps below to select your archived packet types:

- 1. Select the system to archive on from the **System Id** drop down list if this installation is licensed for multiple systems.
- 2. Click the **Packet Types** button. This will show the **Packet Types** panel.
- 3. Check the box for each packet type that you wish to archive. You can also click the **Select All** button to select all packet types.
- 4. Click the **Update** button.

Choosing Purging Options

The GW_Archiver module can purge each table in its SQL database at different intervals. Purging is the process by which old information is removed from the database in order to conserve disk space and to increase query efficiency. If you never want to purge a table, then leave that table's purging option as —*Never*—, otherwise, select the interval on which you wish to purge the table.

The options available in the **Purging** tab are limited by the GW_Archiver section of your GenWatch3 license. If you would like to archive data longer than your options allow, please contact GenWatch3 support to learn how to increase your archiving options.

In most situations, setting all tables to be purged at the same time is the best option, as it will give you a consistent view of your database (you will have the same timeframe in the database for all types of data). However, like with selectively archiving packets, you may be able to get more out of your disk space by selectively purging. For instance, if you really care about emergency alarms, you could set them to purge every year, and then set high throughput data, like calls and affiliations, to purge at one month. By purging high throughput data sooner, you can store other data types for longer periods.

Follow the steps below to setup archived data purging:

- 1. Click the **Purging** button. This will show the **Purging** panel.
- 2. Select the interval for each archive table or set all purge intervals the same at the bottom of the panel.
- 3. Click the **Update** button.

Conclusion

Your GenWatch3 solution is now ready for input. Please refer to the GenWatch3 module book that pertains to your system's data stream. Refer to the list below for a list of system types and their related module books:

- Motorola Astro P25 or Dimetra via ATIA: GenWatch3 GW_ATIA Book.
- **P25:** GenWatch3 GW_RSP25 Book.

If your GenWatch3 package includes the GW_Halcyon module (for RCM and CAD), please reference the following book for additional setup: GenWatch3 GW_Halcyon Book