

GaeaSynergy

Network Manager

User Guide



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GaeaSynergy Network Manager

Version 4

User Guide

GaeaSynergy is an application suite for mapping and resource/contaminant evaluation of ore, oil sands, oil and gas, soil and rock properties, and contaminants. The application is ideal for the environmental, geotechnical, mining, oil sands, and petroleum industries.

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Network Manager

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Network Data Management

Network Data Management

The network version of GaeaSynergy includes the GaeaSynergy 4 Data Manager service and process. GaeaSynergy 4 Data Manager runs as a background service and provides the electronic data interchange (EDI) and notification capabilities for GaeaSynergy. The GaeaSynergy 4 Data Monitor process is used to control and monitor the service.



1.1 Electronic Data Interchange

Electronic Data Interchange (EDI) files are used to exchange data between the GaeaSynergy, WinLoG RT, EDMS Field, and EDMS Lab. To use this feature the network version must be installed and the GaeaSynergy Data Manager service running.

WinLoG RT is a separate program that can be run on desktops, laptops, and tablets to collect and report boring and well log data. This program can be used independently to create, edit, and print boring and well logs. In addition, it can send this data remotely to the GaeaSynergy application in the office for further processing.

The EDMS Field is a separate program that can be run on tablets and laptops to collect station and sample data and then send this data remotely to the GaeaSynergy application. EDMS Lab is a free program distributed by GAEA that your analytical labs can use to automatically report their lab results to you.

All EDI files are stored in XML format and are transferred either by email or FTP. These EDI files are automatically imported by the receiving application when that application is started.

Types of EDI files

EDI Type	Originator	Receiver
Sampling Task Data	GaeaSynergy	EDMS Field
Boring/Well Task Data	GaeaSynergy	WinLoG RT
Lookup List Data	GaeaSynergy	EDMS Field
Lookup List Data	GaeaSynergy	WinLoG RT
Template Data	GaeaSynergy	WinLoG RT
Project Data	GaeaSynergy	WinLoG RT
Project Data	WinLoG RT	GaeaSynergy
Boring/Well Data	WinLoG RT	GaeaSynergy
Project Data	EDMS Field	GaeaSynergy
Station Data	EDMS Field	GaeaSynergy
Sample Data	EDMS Field	GaeaSynergy
Lab Analysis Data	EDMS Lab	GaeaSynergy

1.2 Notifications

When using the network version of GaeaSynergy, notifications can be sent throughout the work process. These notifications can only be setup in tasks and can only be used when tasks are used to control the work flow.

Notification	Originator
Boring/Well required	GaeaSynergy
Boring/Well completed	WinLoG RT
Boring/Well received	GaeaSynergy
Sample required	GaeaSynergy
Sample collected*	EDMS Field
Sample not collected (non-compliant)	GaeaSynergy
Sample shipped to lab*	EDMS Field
Sample received by lab*	EDMS Lab
Sample not analyzed (non-compliant)	GaeaSynergy
Lab analysis complete*	EDMS Lab
Lab analysis incomplete (non-compliant)	GaeaSynergy
Lab analysis received	GaeaSynergy
Parameter exceedence (non-compliant)	GaeaSynergy
Sample stored by lab	EDMS Lab
Sample disposed by lab	EDMS Lab

*These notifications can also be generated from GaeaSynergy and are sent using the GaeaSynergy Manager Service.

Notifications can be sent via email, SMS (text message), or internally within the program. When being sent using email the email address specified for the personnel is used, If they are being notified using SMS the cell number and country code for the personnel is used. And if the method is internal notification, the personnel will be notified the next time they login to the GaeaSynergy program.

1.3 Installation

The GaeaSynergy 4 Data Manager service and monitor must be installed on the same server as the GaeaSynergy 4 License Service. After the service has been installed it needs to be started before it can be used. This is done automatically when the server is restarted or it can be done manually through the Windows Services Manager. To do it manually open the Services list from Administrative tools in the Windows Control Panel. Select the GaeaSynergy 4 Data Manager and then select Start.

1.4 Setup

FTP and Email Settings

The table below shows where the FTP and email settings used to send and retrieve EDI files are specified. These settings are described more fully in the specified sections.

	Incoming		Outgoing	
	Email	FTP	Email	FTP
GaeaSynergy	Network Manager	Network Manager	Personnel Data	Network Manager
WinLoG RT	Preferences	Preferences	Preferences	Preferences
EDMS Field	Preferences	Preferences	Preferences	Preferences
EDMS Lab			Client Data	Client Data

It is recommended that only one method be used for EDI files, either email or FTP. The easiest one to setup is FTP.

FTP Setup

To send and receive EDI files using FTP, a company FTP site is required. On this FTP site a base directory called GaeaSynergy should be created. Then within this directory, directories called Borings, Lab Results, Schedules, Stations, and Samples should be created as shown below. These directories are used to temporarily store EDI files.

```

..Uploads
  ..Projects
  ..LabResults
  ..Schedules
  ..Boreholes
  ..Stations
  ..Samples
  ..Templates

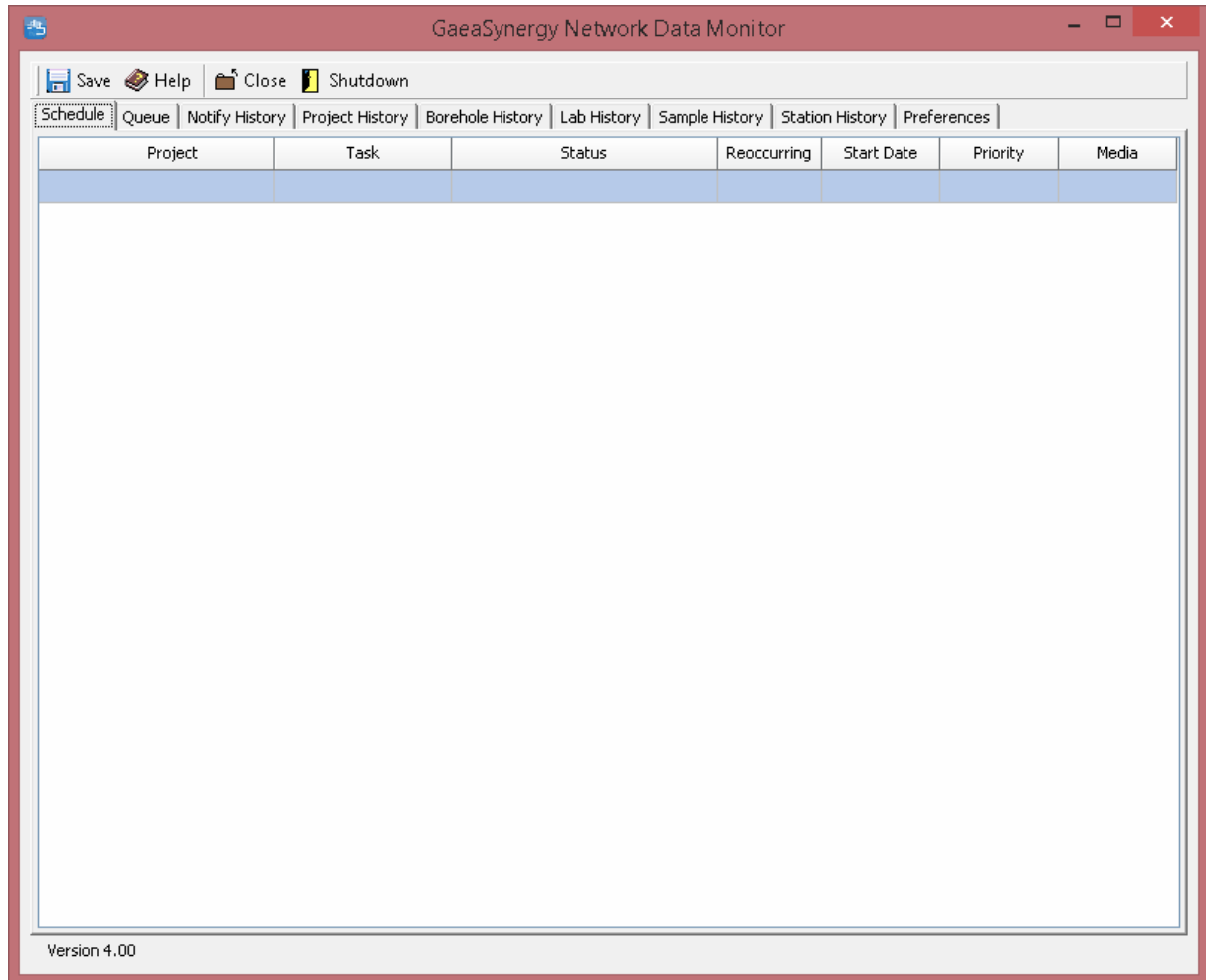
```

Email Setup

To send and receive EDI files using email, a dedicated company email address is required that is used to receive all EDI files from WinLoG RT, EDMS Field and EDMS Lab. In addition, for each WinLoG RT or EDMS Field user a dedicated email address is required to receive EDI files from GaeaSynergy.

1.5 Network Manager Monitor

The GaeaSynergy 4 Data Monitor is used to control the preference settings, monitor the schedule and queue, and show the EDI history. When the application is started the monitor form will be displayed.



At the top of the form there are buttons for the following:

Save: This button is used to save the current preference settings for use by the service.

Help: This button is used to display help on how to use the program.

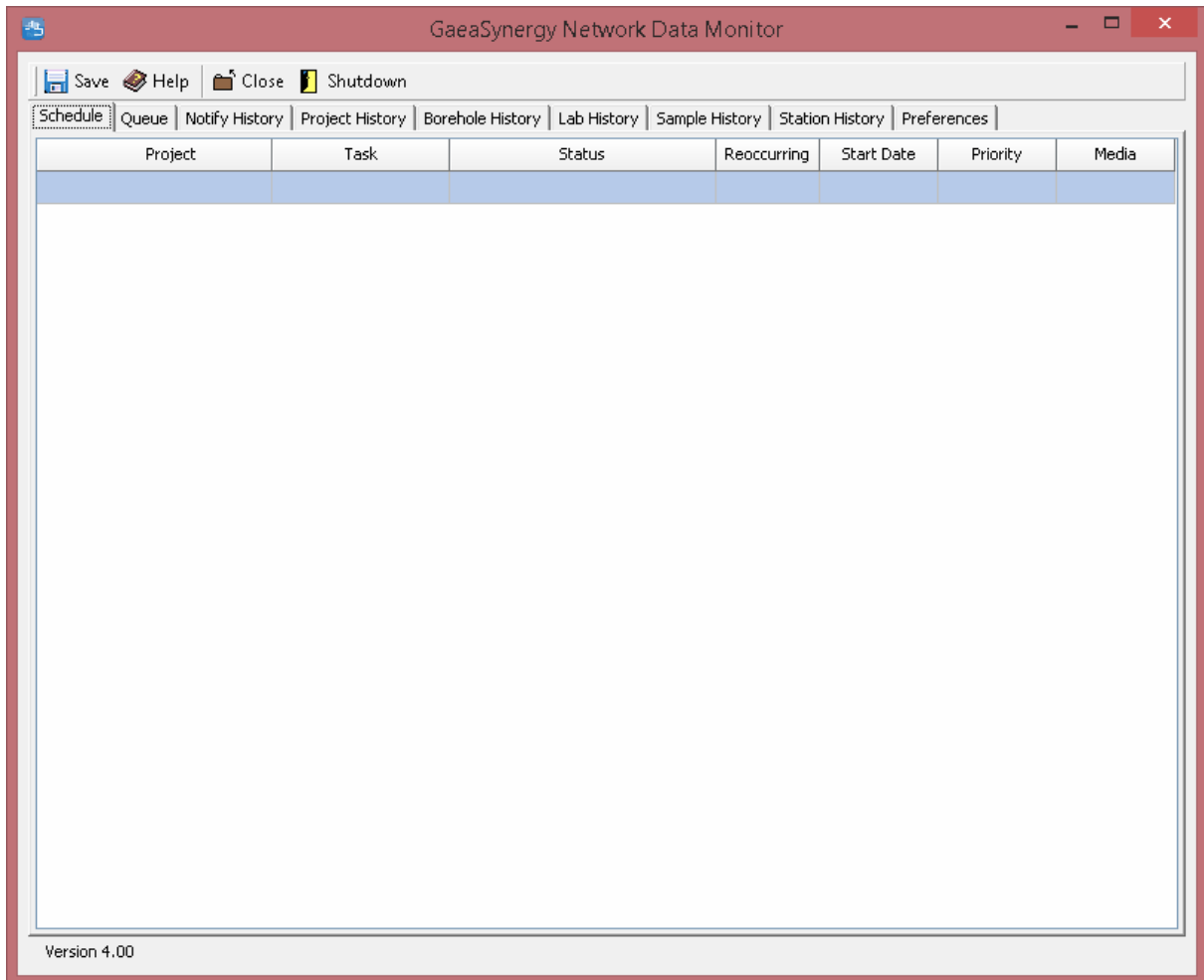
Close: This button is used to hide the monitor. The monitor process will still be running in the background and will be in the system tray. The popup menu for the icon in the system tray can be used to show the monitor form and exit the monitor.

Shutdown: This button will shutdown the monitor process. The service is not affected by this and will still be running in the background.

This form has several tabs for Schedule, Queue, Notify History, Project History, Borehole History, Lab History, Sample History, Station History, and Preferences. These tabs are described in the sections below.

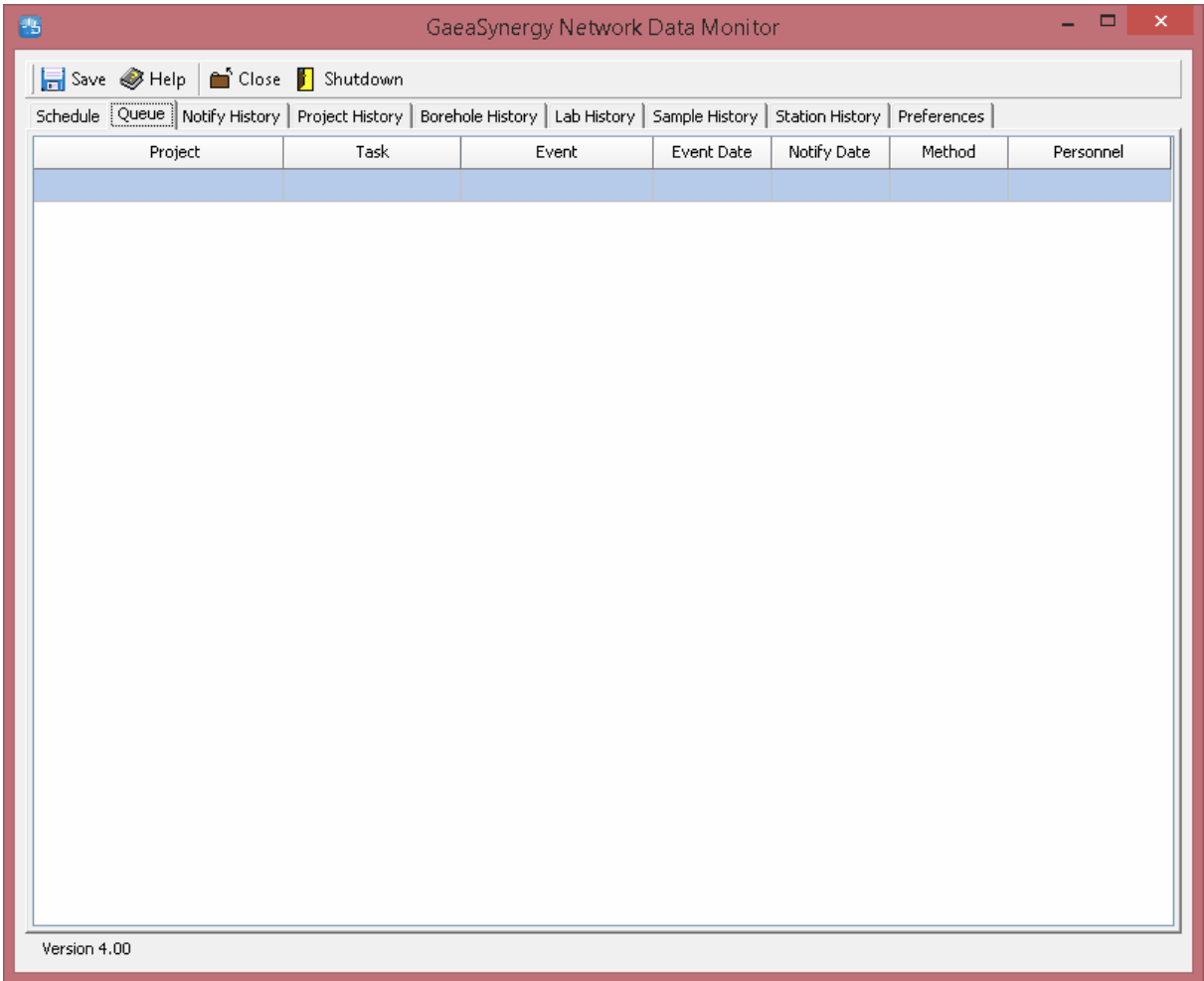
1.5.1 Schedule Tab

The Schedule tab shows a list of current tasks from GaeaSynergy. This list shows the project, task name, task status, whether the task is reoccurring, the task start date, task priority, and sample media for each task.



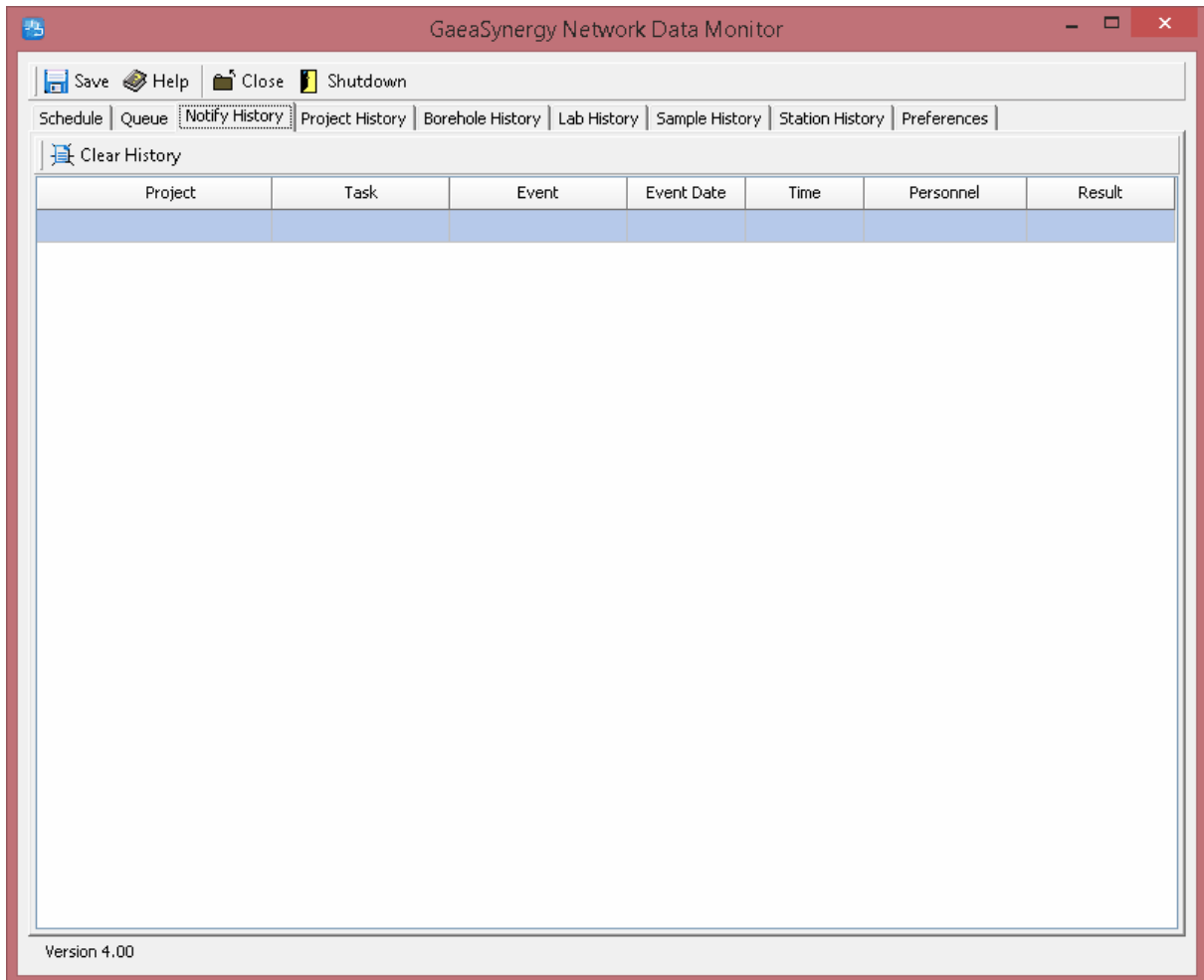
1.5.2 Queue Tab

The Queue tab shows the notification events currently in the service queue. The list shows the project, task name, event type, event date, notify date, notification method, and personnel to be notified for each event.



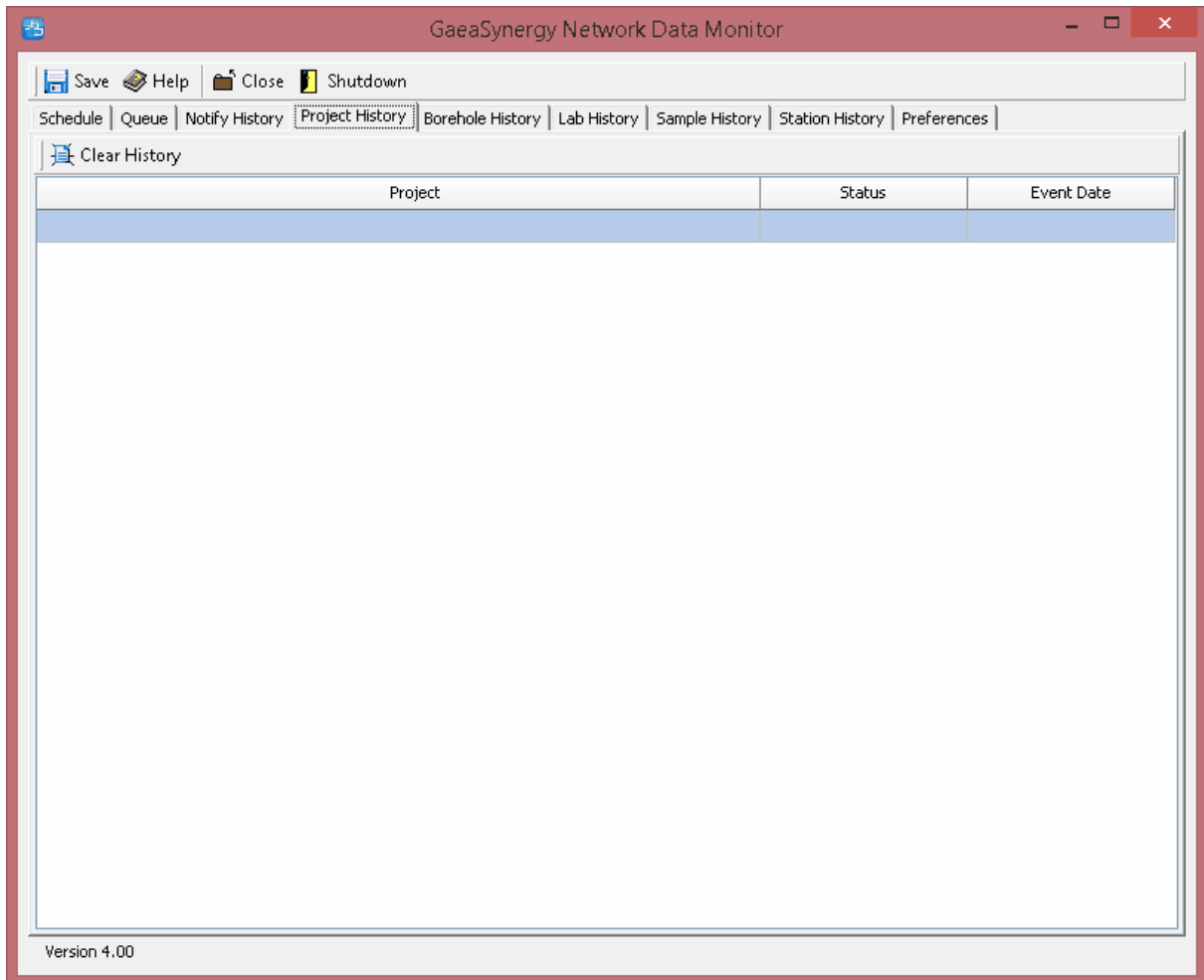
1.5.3 Notify History Tab

The Notify History tab shows the history of notifications that have been sent. The list shows the project, task name, notification event, event date, event time, personnel to notify, and event result for each notification. The Clear History button at the top of the tab will clear the history list.



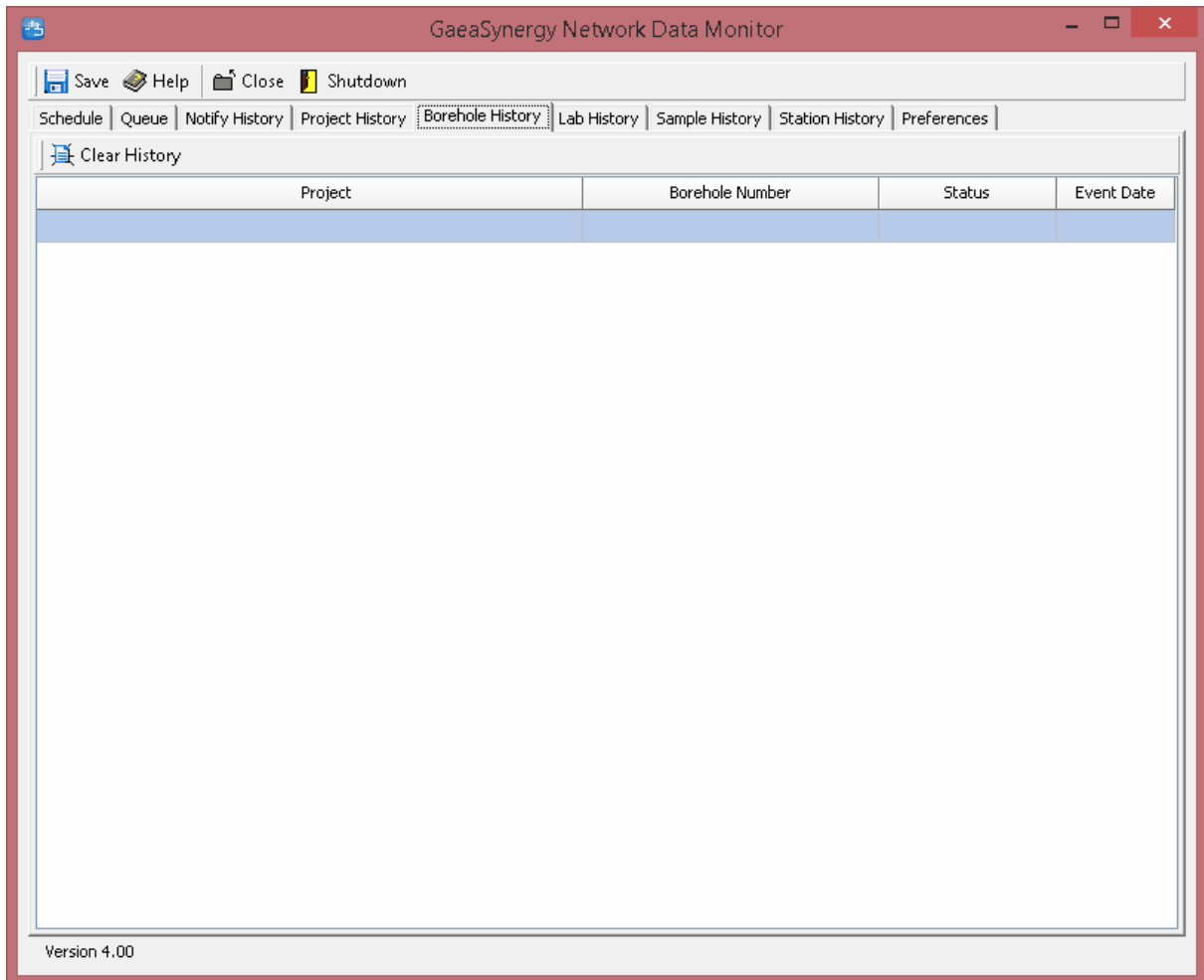
1.5.4 Project History Tab

The Project History tab shows the history of project EDI files that have been received. The list shows the project, status, and event date for each EDI. The Clear History button at the top of the tab will clear the history list.



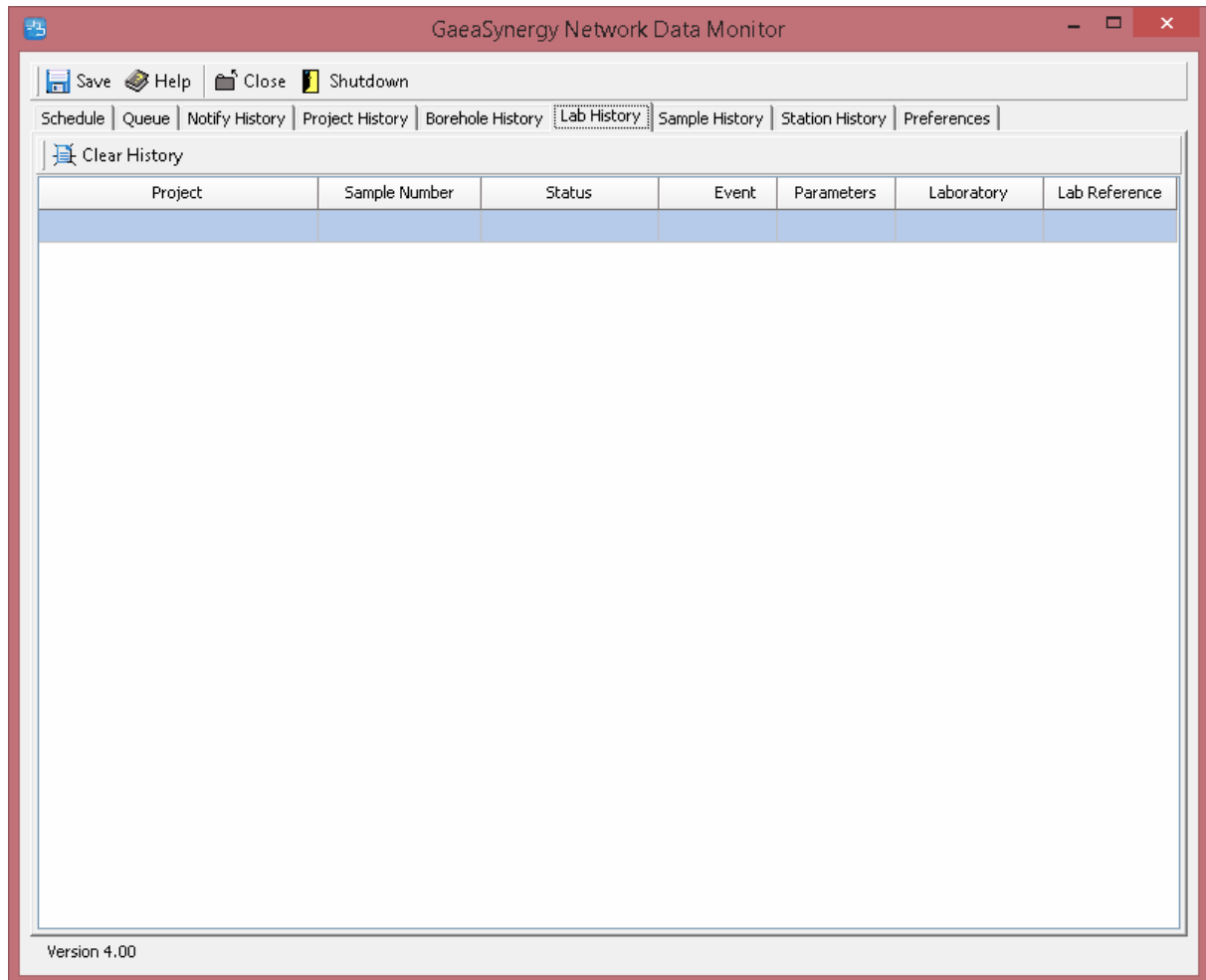
1.5.5 Borehole History Tab

The Borehole History tab shows the history of boring and well EDI files that have been received. The list shows the project, borehole number, status, and event date for each EDI. The Clear History button at the top of the tab will clear the history list.



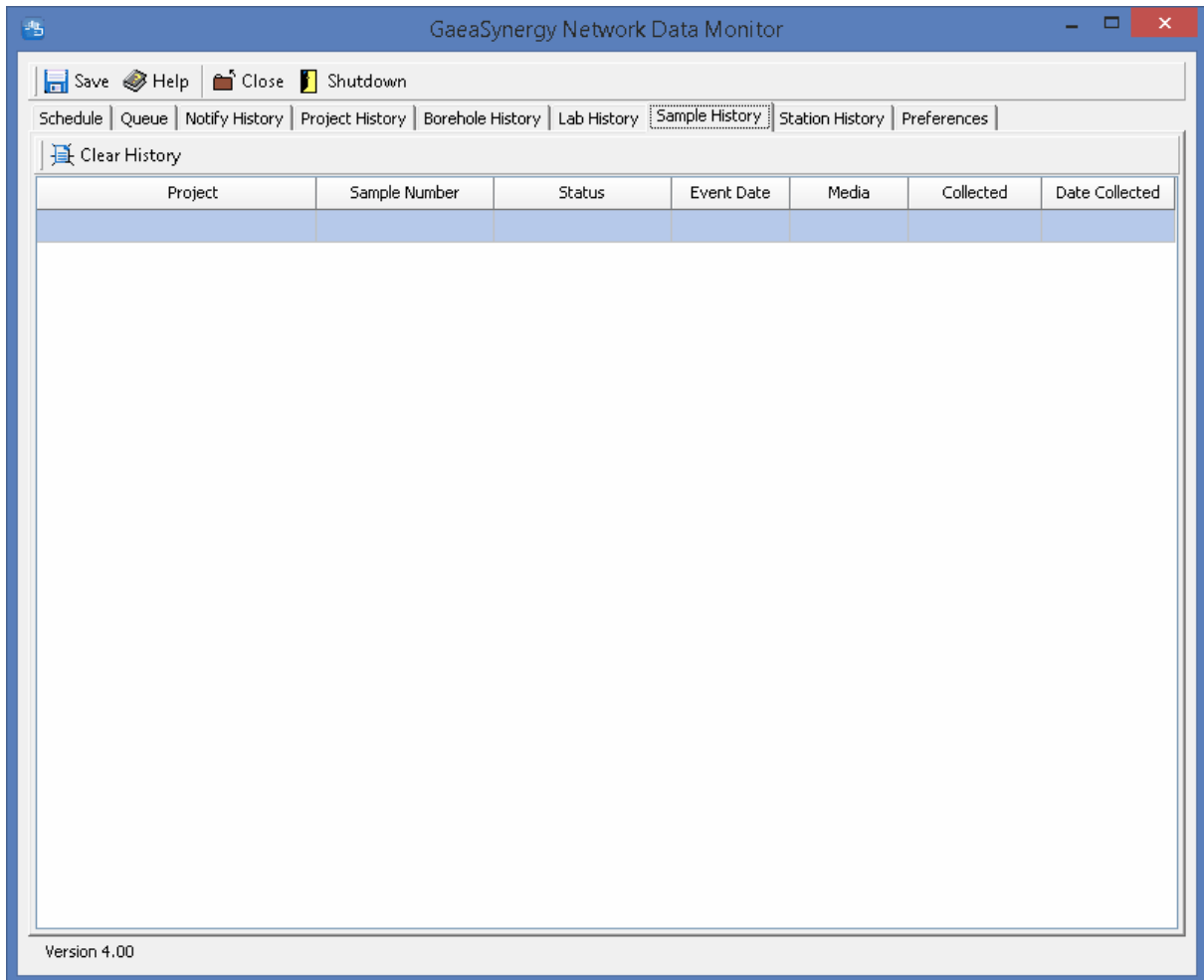
1.5.6 Lab History Tab

The Lab History tab shows the history of lab analysis EDI files that have been received. The list shows the project, sample number, status, event date, parameters, laboratory, and lab reference number for each EDI. The Clear History button at the top of the tab will clear the history list.



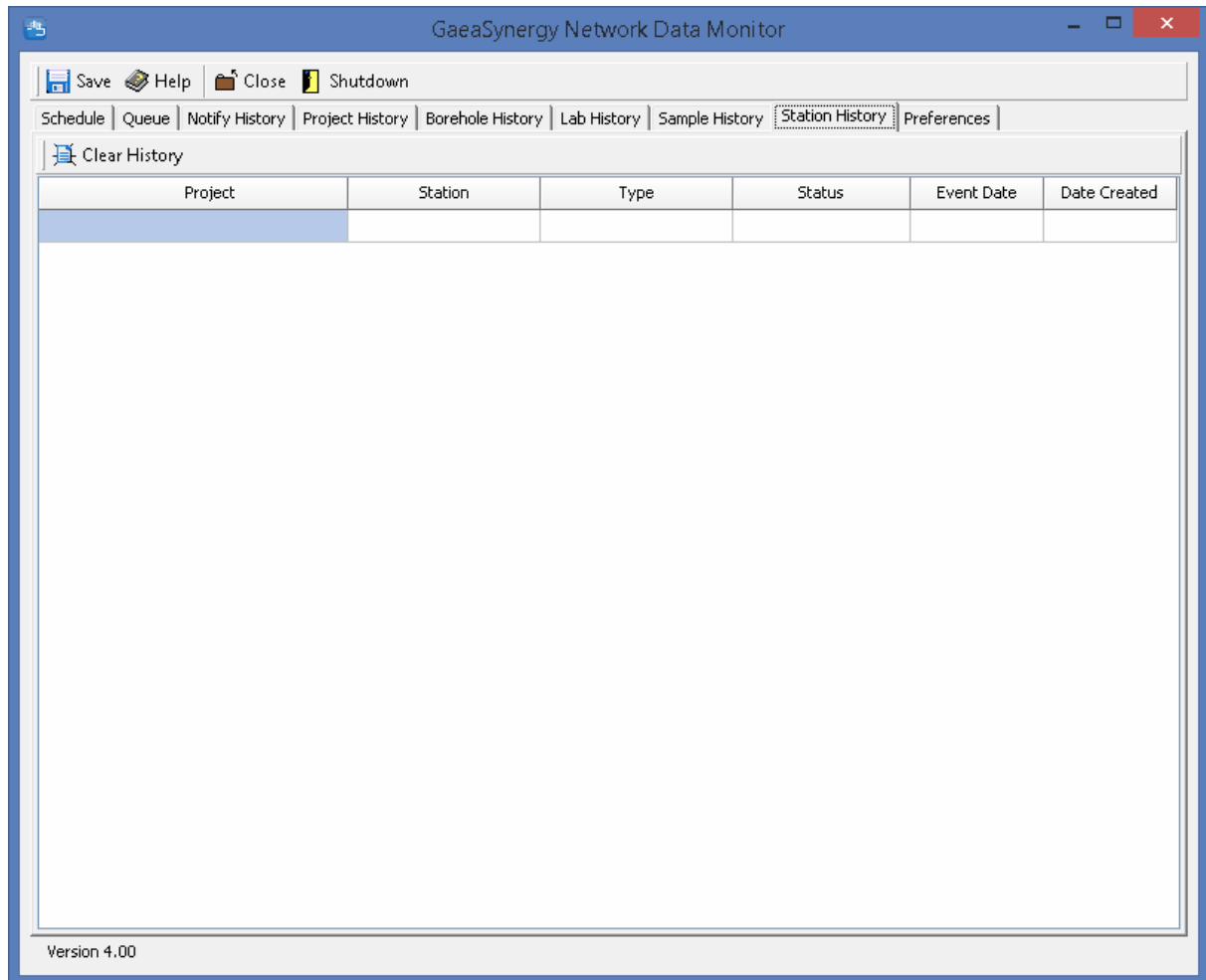
1.5.7 Sample History Tab

The Sample History tab shows the history of sample EDI files that have been received. The list shows the project, sample number, status, event date, sample media, whether the sample has been collected, and date collected for each EDI. The Clear History button at the top of the tab will clear the history list.



1.5.8 Station History Tab

The Station History tab shows the history of station EDI files that have been received. The list shows the project, station name, station type, status, event date, and date the station was created for each EDI. The Clear History button at the top of the tab will clear the history list.



1.5.9 Preferences Tab

The Preferences tab is used to control the settings for the service.

The screenshot shows the 'GaeaSynergy Network Data Monitor' application window with the 'Preferences' tab selected. The interface includes a menu bar with 'Save', 'Help', 'Close', and 'Shutdown'. Below the menu bar are several tabs: 'Schedule', 'Queue', 'Notify History', 'Project History', 'Borehole History', 'Lab History', 'Sample History', 'Station History', and 'Preferences'. The main content area is divided into several sections:

- Datastore folder:** A text box containing 'C:\ProgramData\GAEA\GaeaSynergy4\Datastore' with a folder icon button to its right.
- Timer interval (mins):** A spinner box set to '10'.
- Day margin:** A spinner box set to '1'.
- Outgoing Email Settings:** Includes fields for 'Host', 'Port' (set to 26), a checkbox for 'Use TLS / SSL', 'Username', and 'Password'. A 'Test Settings' button is located to the right.
- Incoming Email Settings:** Includes fields for 'Host', 'Port' (set to 110), a checkbox for 'Use TLS / SSL', 'Username', and 'Password'. A 'Test Settings' button is located to the right.
- FTP Settings:** Includes fields for 'Server', 'Port' (set to 21), 'User Name', and 'Password'. A 'Test Settings' button is located to the right.
- SMS:** Includes a field for 'Outgoing Number'.

At the bottom left of the window, the text 'Version 4.00' is displayed.

The following can be specified on this tab:

Datastore Folder: This is the folder used to store data for GaeaSynergy and EDMS. It should be the same as specified in Preferences for GaeaSynergy.

Time Interval: This is the time interval in minutes between updates of the service. The service will check for EDDs and send/receive notifications at this interval.

Day margin: This is the allowable margin in days for a sample to be collected without being considered non-compliant. For example, if the margin is 2 days the sample must be collected within 2 days of the date required to not be non-compliant.

Outgoing Email Settings

Host: This is mail server for outgoing EDDs and notification emails.

Port: This is the port for the outgoing server.

Use TLS/SSL: Check this box if the outgoing server requires TLS/SSL.

Username: This is the username for the outgoing server.

Password: This is the password for the outgoing server.

Test Settings: Click this button to test the settings for outgoing email.

Incoming Email Settings

Host: This is mail server for incoming EDDs and notification emails.

Port: This is the port for the incoming server.

Use TLS/SSL: Check this box if the incoming server requires TLS/SSL.

Username: This is the username for the incoming server.

Password: This is the password for the incoming server.

Test Settings: Click this button to test the settings for incoming email.

FTP Settings

Host: This is FTP server for outgoing and incoming EDDs and notifications.

Port: This is the port for the FTP server.

Username: This is the username for the FTP server.

Password: This is the password for the FTP server.

Test Settings: Click this button to test the settings for FTP.

SMS

Outgoing Number: This is the outgoing number used to send SMS notifications. It is usually provided by GAEA.

