

Inform.NET

Administrator's Manual

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System Overview

The InformNET solution is a self-managed software-based system that polls automated tank gauges (ATGs) using either modems or TCP/IP networking. Polls are schedulable, and ATGs are grouped for ease of management. The InformNET system collects and keeps the data from the monitored ATGs, and generates various reports from that information. The system administrator may group ATGs for polling management and reporting purposes. The InformNET system also supports the basic management of alarm conditions that may occur in the ATGs. Role-based access controls provide granular management of users and their privileges. The InformNET system also provides ATG remote management capabilities of Veeder-Root ATGs for qualified technicians.

The system is accessed using a web browser. The InformNET system minimizes the software expenses for third party components by leveraging Microsoft's SQL Server Standard Edition, Internet Information Server, SQL Server Reporting Services, the Task Scheduler, and the .NET framework.

1. USER LOG IN AND ACCESS

This particular manual will allow Administrator Users to navigate and use the InformNET software with ease and have access to ATG information.

To begin, the Administrator User must go to the following site:

`http://[servername]/InformNET`

Once the page loads, the user will be prompted for a username and password. The default installed username and password that shall be used is:

Username: InformnetAdmin

Password: admin@123

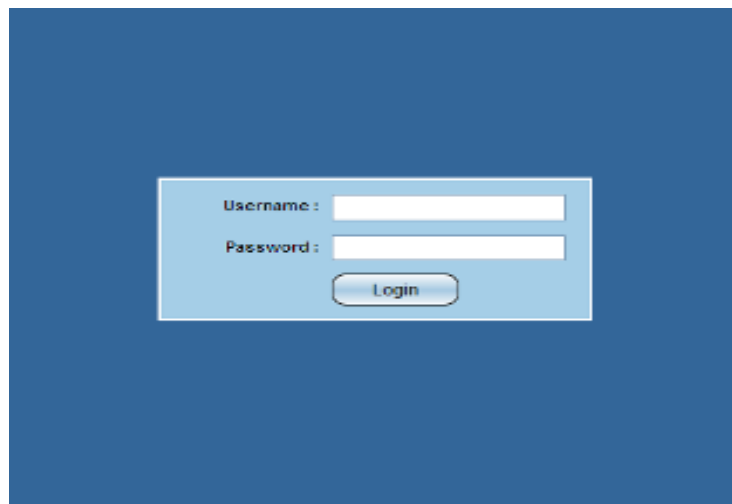
A screenshot of a user login interface. It features a dark blue background. In the center, there is a light blue rectangular box containing the login form. Inside this box, there are two white input fields. The first field is labeled 'Username:' and the second is labeled 'Password:'. Below these fields is a rounded rectangular button with the text 'Login'.

Figure 1. User Log In

2. OVERVIEW

Main Tabs:

1. Home Tab

The Home page is the default landing page of InformNET. The page consists of a table that displays ID, site name, tank icons and information, alarms, and tests. From this page, the user may navigate to other specific pages with more detailed information.

2. Monitoring Tab

After being prompted and selecting a specific group and site, the user will be taken to the default landing page for the Monitoring tab, which is the equivalent of the tanks page. Here, all available tanks along with detailed information will be listed.

a. Group

This dropdown allows the user to choose a specific group of sites to view.

b. Site

This dropdown allows the user to choose a specific site within the selected group for further narrowing purposes. Whatever site is selected, it will filter to all the sections below.

c. Tanks

Each tank has a checkbox provided beside it. The user may check whichever tank they wish to view specifically.

d. Polling Section

i. Event Log

This page provides a table format of data based on polling tasks that occur within a specific date range.

ii. Priority Queue

This page provides a table format of data based on polling tasks in queue for a list of sites. The user has the option to cancel the task, as well as reprioritize the task.

iii. Deliveries

This page provides data for deliveries made for selected tanks for a specified date range.

iv. Inventory

This page provides data for inventory for selected tanks for a specified date range.

v. BIR

This page provides data for BIR for selected tanks for a specified date range.

e. **Equipment Section**

i. **Tanks**

This page provides the same options as Part C from above.

f. **Alarms Section**

i. **Active Alarms**

This page provides data for a list of active alarms for a selected site.

ii. **Alarm History**

This page provides a history of alarms for a selected alarm category and a specified date range.

iii. **Config Alarms**

This page allows the user to view changes made to alarms and the dates of those changes. Edits cannot be made by the operator.

g. **Testing Section**

i. **Tank History Report**

This page provides a general overview of tank leak data for selected tanks of a specified date range.

ii. **Tank Test Results**

This page provides a more detailed look into leak test results for selected tanks of a specified date range.

iii. **Sensors**

This page provides data for selected sensor types of a specified date range such as location and status of the sensors.

iv. **Line Test**

This page provides line test results and data for selected leak detector types of a specified date range.

v. **CSLD**

This page provides CSLD results and data for a specified date range.

vi. **Line Status**

This page provides line status data for a list of tanks that are automatically populated into the list.

3. Admin Tab

This page is only viewable by admin users. This particular page consists of information for sites and allows the user to configure settings (alarms and polling) for the sites.

a. **Global Settings Section**

- i. **General**

- This page provides the user with options to change and/or update the global parameters of all sites

- b. **Site Settings Section**

- i. **Groups**

- This page allows the user to create and edit groups of sites.

- ii. **Sites**

- This page provides the user with the options to edit and/or update site information and connectivity. The user may also add and delete sites.

- iii. **Compliance Exclusion**

- This page provides the user with the option to exclude certain lines and tanks from activity.

- iv. **Site Details**

- This page provides the user with an overview of site details as well as gauge information based on the selected site and site status.

- v. **Tank Setup**

- This page provides the user with the options to add and edit tank information for a selected site.

- c. **Polling Section**

- i. **Collection Profile**

- This page allows the user to create, edit, and/or delete collection profiles.

- ii. **Sets**

- This page provides the user with the options to create, edit, and/or delete polling sets, as well as schedule polling for each set.

- iii. **Event Log**

- This page provides a table format of data based on polling tasks that occur within a specific date range.

- d. **Security Settings Section**

- i. **Users**

- This page provides the user with the options to add/edit users along with contact information and details.

- ii. **Security Audit Log**

- This page provides the user with a history of logins for specific users based on a specified date range.

e. **Alarm Notifications Section**

i. **Email Users**

This page provides the user with the options to add, edit, and/or delete email users in which emails notifications would be sent to.

ii. **Email Groups**

This page provides the user with the options to create, edit, and/or delete email groups in which email notifications would be sent to all members of the group.

iii. **Alarm Groups**

This page provides the user with the options to add, edit, and/or delete an alarm group in which selected alarms would be applied to all members of the group.

iv. **Email Subscriptions**

This page provides the user with the options to add, edit, and/or delete email subscriptions in which specific types of groups will receive specific notifications.

4. Report Scheduling Tab

This page is specifically used to schedule a report based on the selected report type.

5. On Demand Reports Tab

The user has the option to pull and retrieve reports based on various criteria. The user may specify the type of report and the data within the report depending on which criteria they decide to edit or use.

6. Polling Dashboard Tab

This page provides the user with an overview of what items are within the queue currently. The user may refresh the page whenever they need to in order to view the most updated list of items in the queue.

3. HOME

After entering the correct username and password, the user will be directed to the Veeder-Root Home page. The main Home page will be one of six possible tabs to choose from, as shown below. The “Home” tab is formatted as a table that includes the ID numbers, the corresponding IP addresses, Tank information, Alarms, and a link called “Tests”.

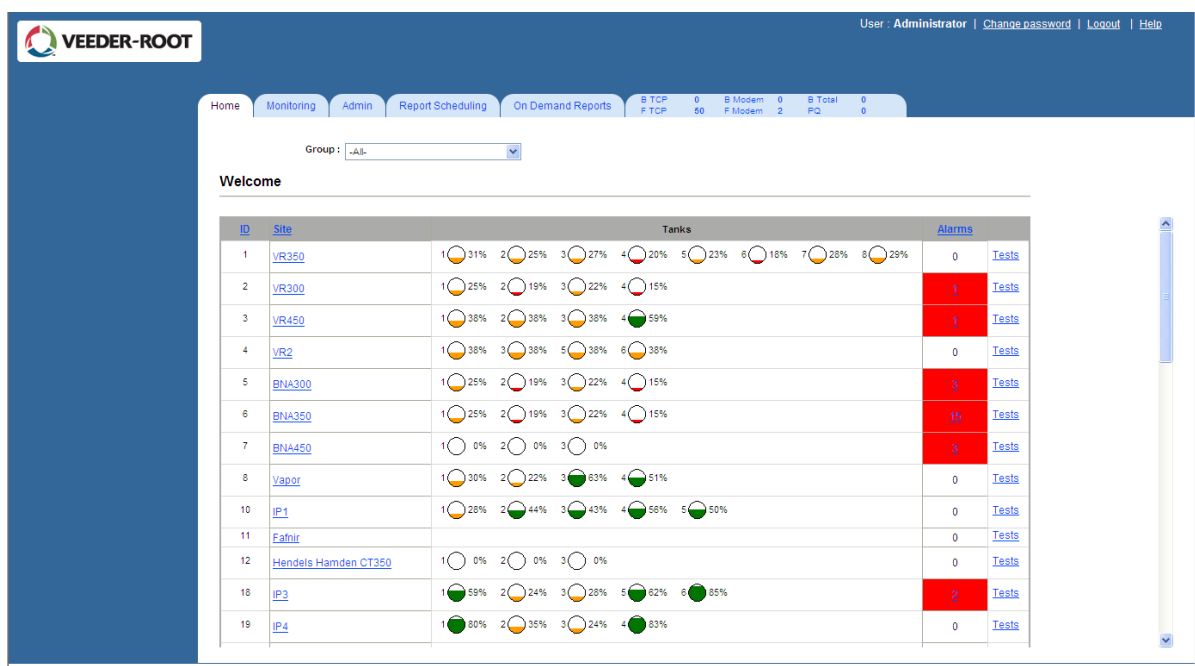


Figure 2. Home Page

3.1 VIEW DATA BY GROUP

At the top of the Home page, there is a single drop down menu labeled “Group”. This drop down allows the User to select and view all sites or just a specific monitoring group based on polling sets and schedules.

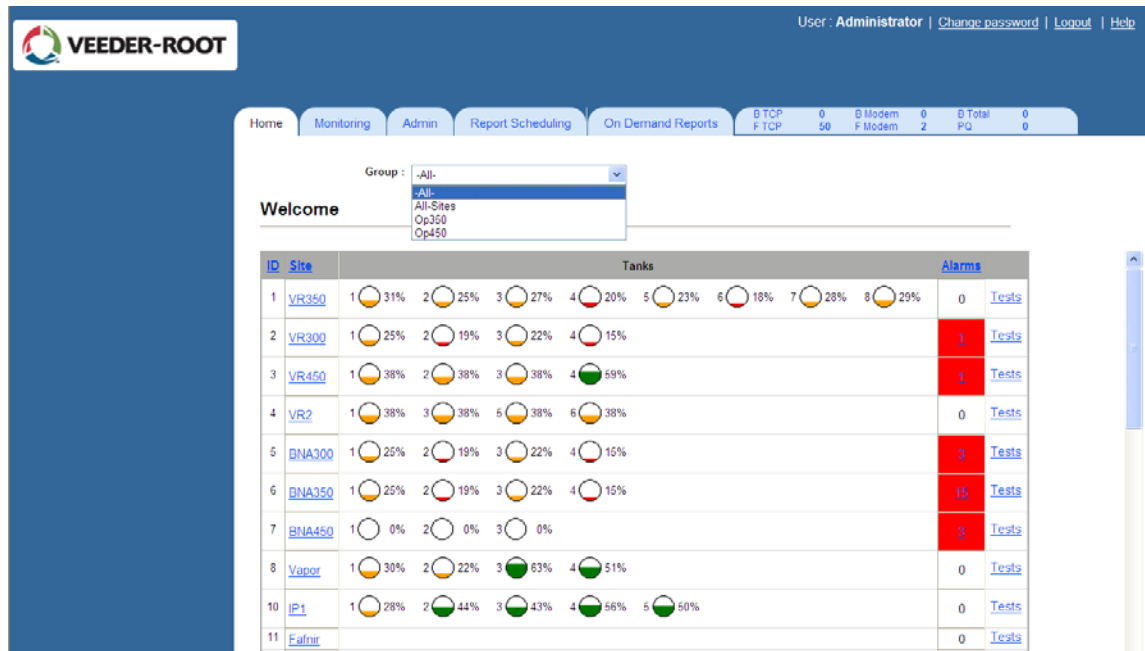


Figure 3. Group Selection Drop Down

3.2 DIRECT LINK TO TANK INFORMATION FROM HOME PAGE

The figure below shows what will display if the User navigates the cursor over any one of the tanks. A rectangular window will pop up showing specific information of that particular tank.

To view a specific site's tank listing and the corresponding details, simply click on any one of the tanks within the same row. This is a direct link to the "Monitoring" tab and the "Equipments" section where each tank will be listed along with extensive details for a chosen Site.

The user may also access the tank listing by clicking on a specific site name, which is a direct link to that site's tank listing.

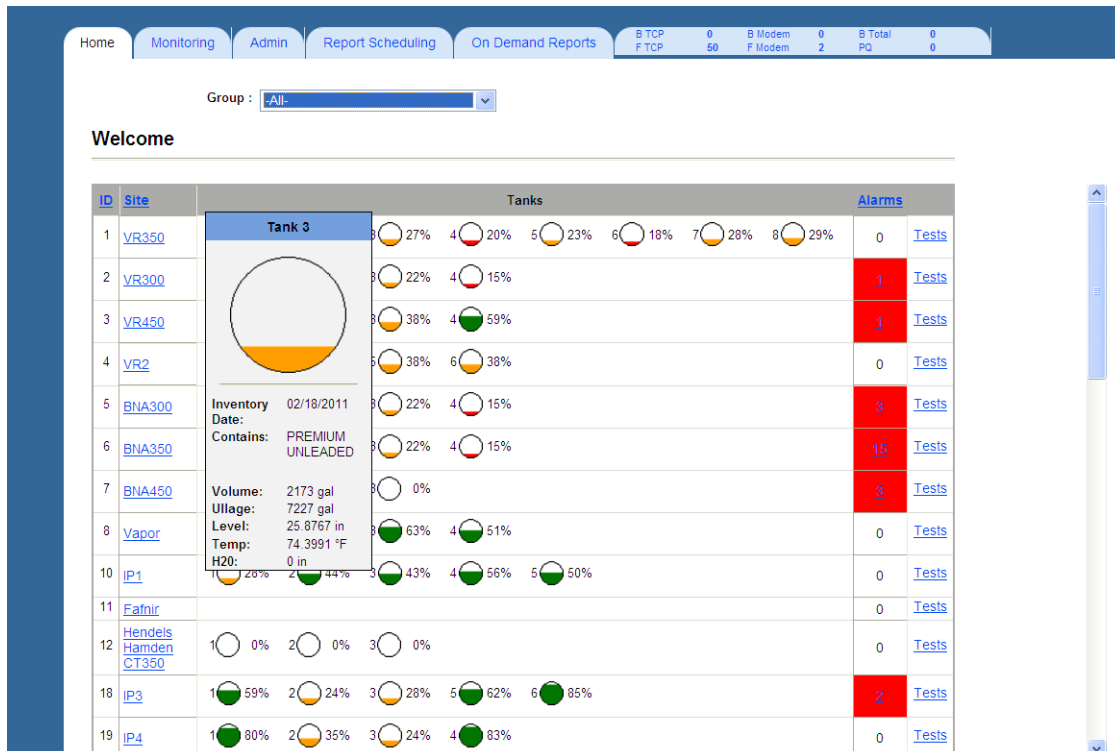


Figure 4. Tank Pop Up w/Data

3.3 DIRECT LINK TO ALARMS INFORMATION FROM HOME PAGE

The Home page displays the number of alarms within each Site. The Sites that do contain alarms are indicated by a red colored box.

To view extensive details of the alarm(s) at each Site, just click on the number under the Alarms column. This is a direct link to the “Monitoring” tab and the “Alarms” section within that page for a chosen Site.

3.4 DIRECT LINK TO TESTING INFORMATION FROM HOME PAGE

On the right hand side, there are direct links labeled as “Tests”. To access testing data, simply click on this link and the User will be directed to the “Monitoring” tab and the “Testing” section within that page. The default landing page for the direct link is the Line Test page.

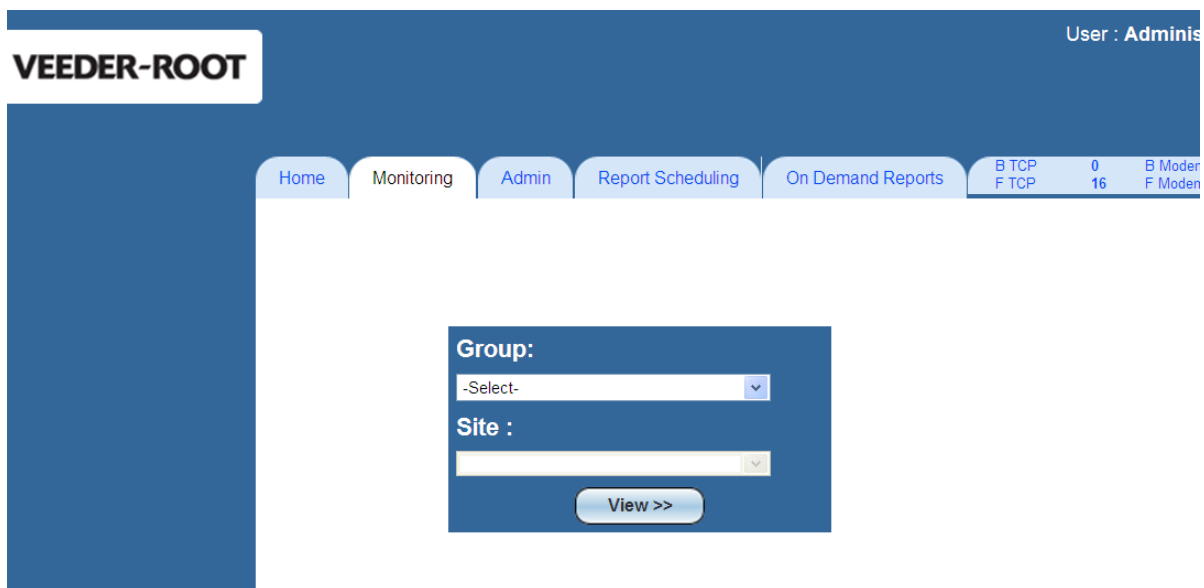
The User will be prompted to select a “Leak Detector Type” before any data is displayed.

4. MONITORING

The first thing the User will encounter in this page is a prompt for a specific:

- Group
- Site

In the “Home” tab, the data is already configured into specific groups so clicking on particular Tanks, Alarms, and Tests would direct the User to the “Monitoring” tab without being prompted.



The screenshot shows the VEEDER-ROOT web interface. At the top, there is a blue header with the VEEDER-ROOT logo on the left and 'User : Adminis' on the right. Below the header is a navigation bar with tabs: Home, Monitoring (highlighted in orange), Admin, Report Scheduling, and On Demand Reports. To the right of the tabs is a table with data:

B TCP	0	B Moder
F TCP	16	F Moden

Below the navigation bar, there is a large blue sidebar on the left. In the center of the page, there is a form with the following fields:

- Group:** A dropdown menu with '-Select-' as the selected option.
- Site :** A dropdown menu with an empty selection.
- View >>** A button to view the selected data.

Figure 5. Monitoring Page

Once a Group and Site have been selected, the Monitoring page will display the “Equipments” section, which is the default landing page. This is also called the Site Summary.

Within each box, data for fuel type, Volume, Ullage, Level, Temperature, water level, Alarms, and Collection Date/Time are available for each tank.

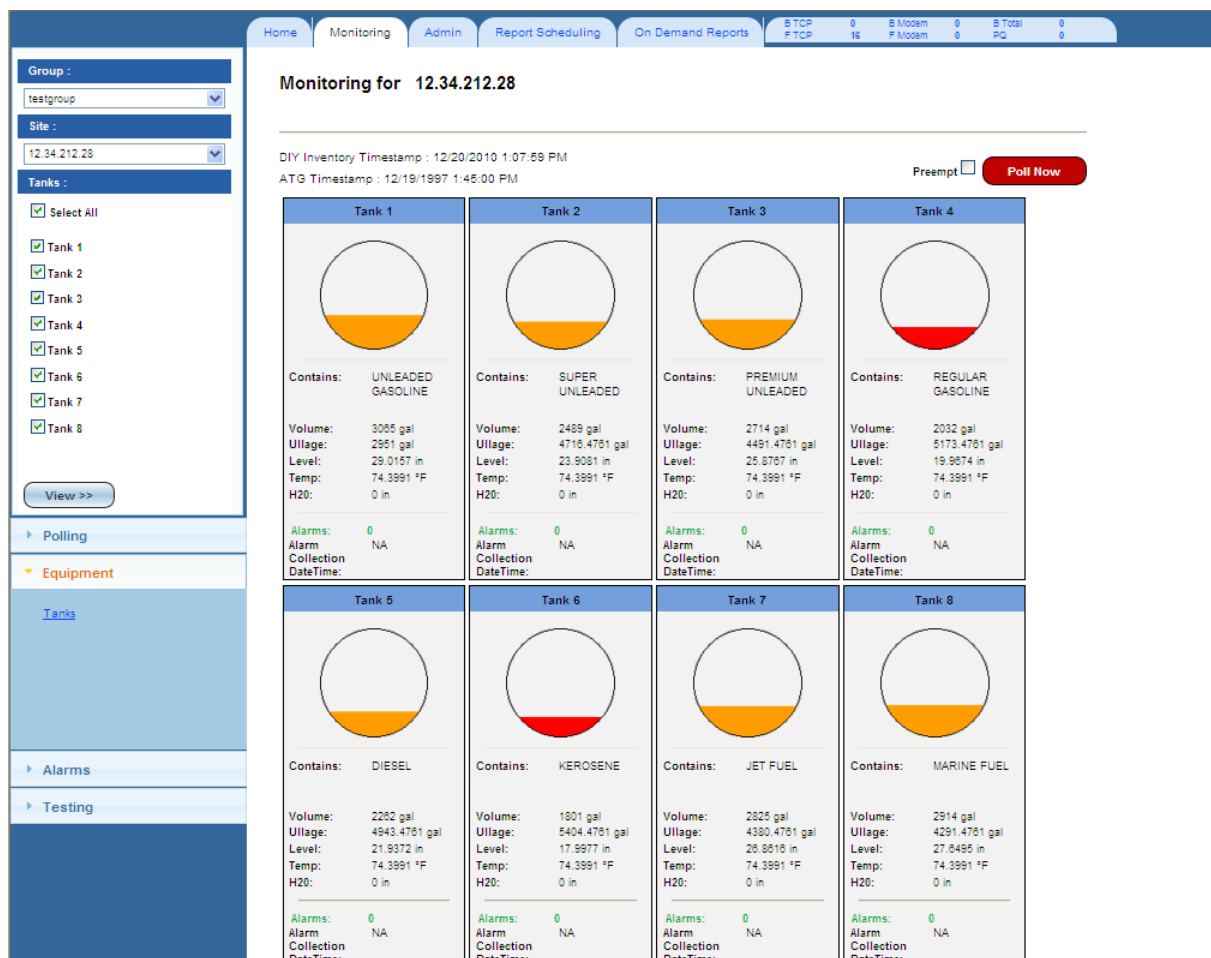
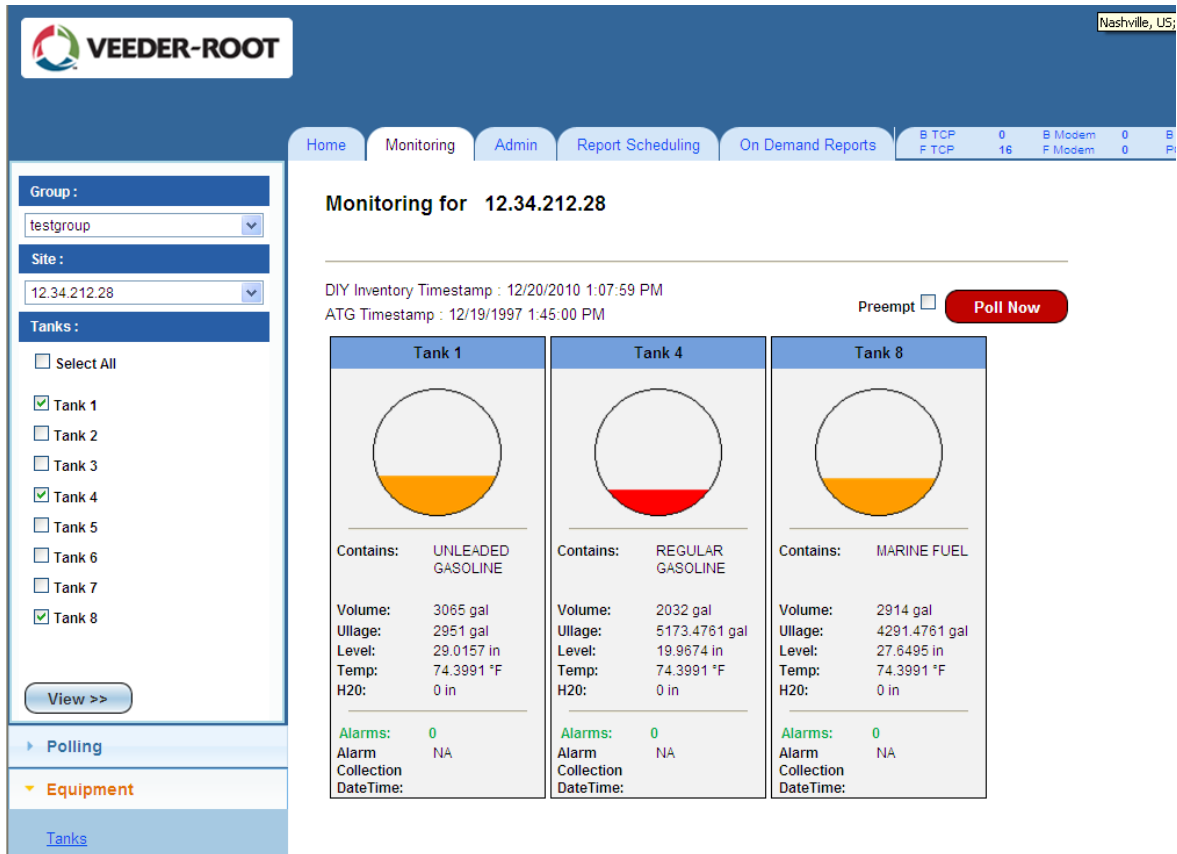


Figure 6. Site Summary

4.1 DISPLAY ONLY SPECIFIC TANKS

The User may narrow down the number of tanks they want the page to display or examine. To do this, the User must check the boxes of the tanks they want to display and then select the “View “button as shown below.



Monitoring for 12.34.212.28

DIY Inventory Timestamp : 12/20/2010 1:07:59 PM
 ATG Timestamp : 12/19/1997 1:45:00 PM

Preempt ☐ **Poll Now**




Tank 1	Tank 4	Tank 8
		
Contains: UNLEADED GASOLINE	Contains: REGULAR GASOLINE	Contains: MARINE FUEL
Volume: 3065 gal	Volume: 2032 gal	Volume: 2914 gal
Ullage: 2951 gal	Ullage: 5173.4761 gal	Ullage: 4291.4761 gal
Level: 29.0157 in	Level: 19.9674 in	Level: 27.6495 in
Temp: 74.3991 °F	Temp: 74.3991 °F	Temp: 74.3991 °F
H2O: 0 in	H2O: 0 in	H2O: 0 in
Alarms: 0	Alarms: 0	Alarms: 0
Alarm: NA	Alarm: NA	Alarm: NA
Collection	Collection	Collection
DateTime:	DateTime:	DateTime:

Figure 7. Display Specific Tanks Only

4.2 DISPLAY DETAILS OF A SINGLE TANK

To display a specific tank and its details, simply click on the desired tank and all the detailed information as well as the Inventory Polling History for that single tank will show.

To return to the main Tanks page, simply select the “Return” button located in the upper right hand corner of the page.

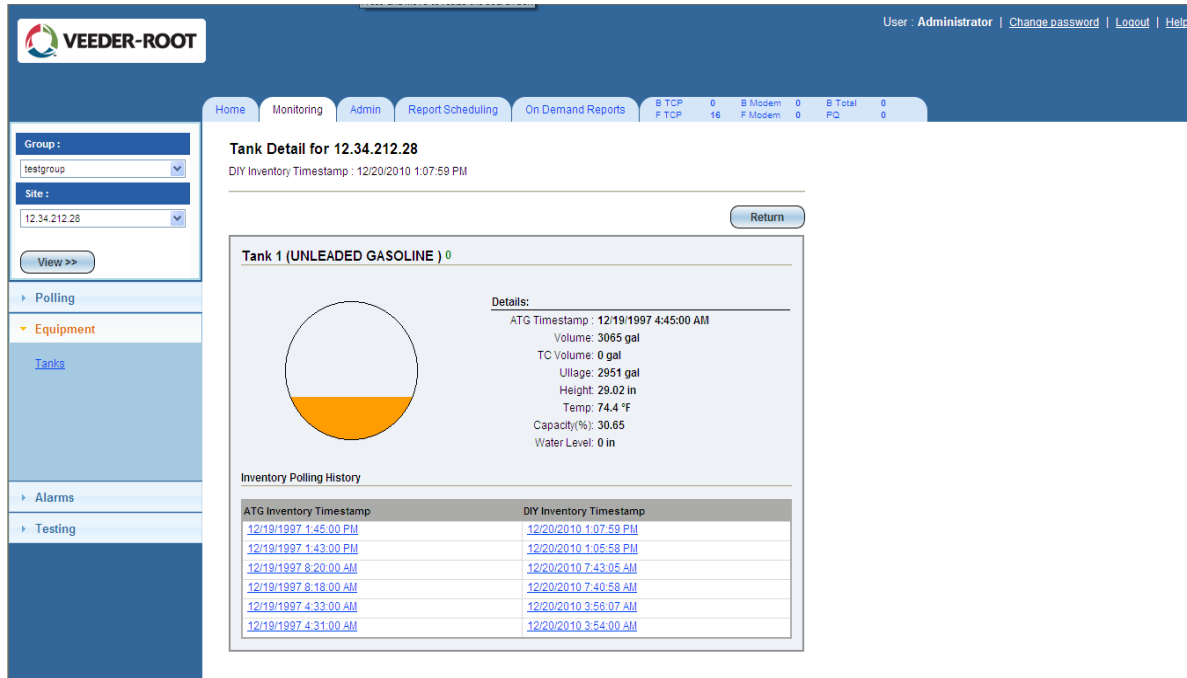


Figure 8. Display Details of Single Tank

4.2.1 INVENTORY POLLING HISTORY

To view the inventory polling details of a specific time period, simply click on the desired date and time link and the information will update under Details.

4.3 POLLING THE TANKS

To poll the tanks, the User will click on the “Poll Now” button located in the upper right hand corner of the page. This feature will gather current data from the gauge, which is comprised of Alarms, Inventory, and Deliveries.

The User may also narrow down the number of tanks to be polled. To do this, the User must check the boxes of the desired tanks, click “View”, and then click the “Poll Now” button.

The User may check the “Preempt” box to place a higher priority task in the front of the queue.

4.4 DISPLAY TANKS FROM A DIFFERENT GROUP/SITE

To display tank information of a different Group and a different Site, the User must use the drop down menus located in the upper left hand corner of the page and select a:

- Group
- Site

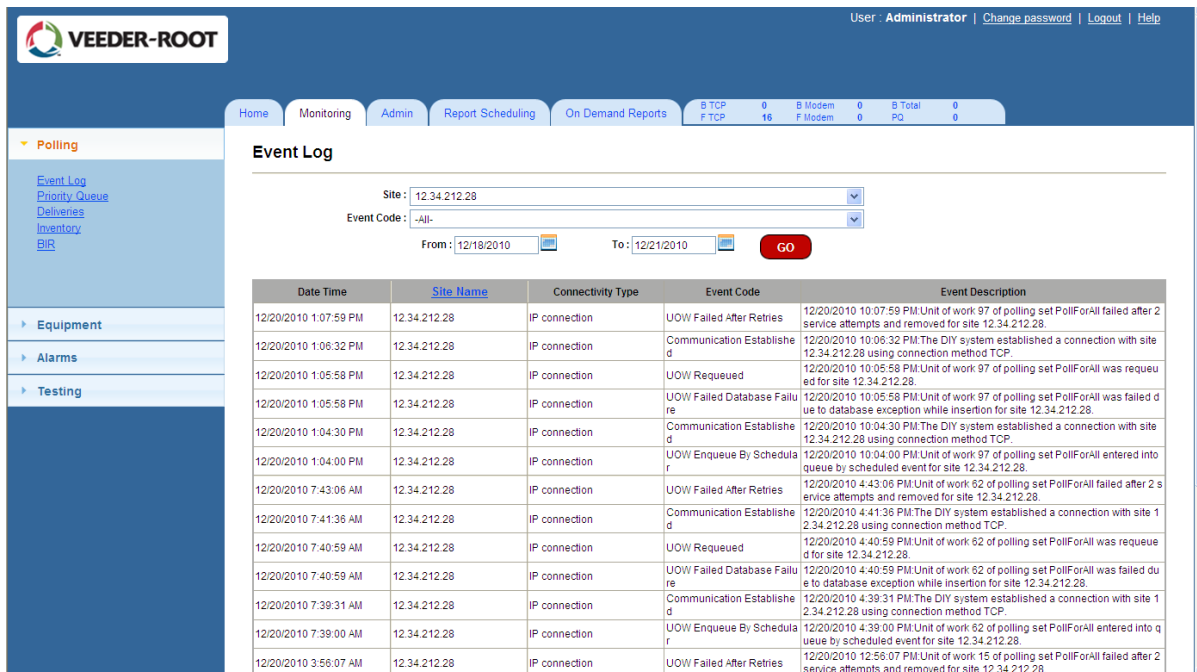
After selections are made, the User must select the tanks they want to display and then click on “View”.

4.5 ACCESS POLLING EVENT LOG

Under the “Polling” section, there is a link called “Event Log”. By clicking this link, the User will be directed to the Event Log page in which prompts will appear. The User must select a specific:

- Site
- Event Code
- Date Range

The date range will be defaulted, but the User may change the date range accordingly if necessary.



The screenshot shows the Veeder-Root Inform.NET Administrator's Manual interface. The top navigation bar includes links for Home, Monitoring, Admin, Report Scheduling, and On Demand Reports. The left sidebar shows the Polling section with links for Event Log, Priority Queue, Deliveries, Inventory, and BIR. The main content area displays the Event Log page with filters for Site (12.34.212.28), Event Code (-All-), and Date Range (From: 12/18/2010, To: 12/21/2010). A table of events is shown below the filters.

Date Time	Site Name	Connectivity Type	Event Code	Event Description
12/20/2010 1:07:59 PM	12.34.212.28	IP connection	UOW Failed After Retries	12/20/2010 10:07:59 PM: Unit of work 97 of polling set PollForAll failed after 2 service attempts and removed for site 12.34.212.28.
12/20/2010 1:06:32 PM	12.34.212.28	IP connection	Communication Established	12/20/2010 10:06:32 PM: The DIY system established a connection with site 12.34.212.28 using connection method TCP.
12/20/2010 1:05:58 PM	12.34.212.28	IP connection	UOW Requested	12/20/2010 10:05:58 PM: Unit of work 97 of polling set PollForAll was requested for site 12.34.212.28.
12/20/2010 1:05:58 PM	12.34.212.28	IP connection	UOW Failed Database Failure	12/20/2010 10:05:58 PM: Unit of work 97 of polling set PollForAll was failed due to database exception while insertion for site 12.34.212.28.
12/20/2010 1:04:30 PM	12.34.212.28	IP connection	Communication Established	12/20/2010 10:04:30 PM: The DIY system established a connection with site 12.34.212.28 using connection method TCP.
12/20/2010 1:04:00 PM	12.34.212.28	IP connection	UOW Enqueue By Scheduler	12/20/2010 10:04:00 PM: Unit of work 97 of polling set PollForAll entered into queue by scheduled event for site 12.34.212.28.
12/20/2010 7:43:06 AM	12.34.212.28	IP connection	UOW Failed After Retries	12/20/2010 4:43:06 PM: Unit of work 62 of polling set PollForAll failed after 2 service attempts and removed for site 12.34.212.28.
12/20/2010 7:41:36 AM	12.34.212.28	IP connection	Communication Established	12/20/2010 4:41:36 PM: The DIY system established a connection with site 12.34.212.28 using connection method TCP.
12/20/2010 7:40:59 AM	12.34.212.28	IP connection	UOW Requested	12/20/2010 4:40:59 PM: Unit of work 62 of polling set PollForAll was requested for site 12.34.212.28.
12/20/2010 7:40:59 AM	12.34.212.28	IP connection	UOW Failed Database Failure	12/20/2010 4:40:59 PM: Unit of work 62 of polling set PollForAll was failed due to database exception while insertion for site 12.34.212.28.
12/20/2010 7:39:31 AM	12.34.212.28	IP connection	Communication Established	12/20/2010 4:39:31 PM: The DIY system established a connection with site 12.34.212.28 using connection method TCP.
12/20/2010 7:39:00 AM	12.34.212.28	IP connection	UOW Enqueue By Scheduler	12/20/2010 4:39:00 PM: Unit of work 62 of polling set PollForAll entered into queue by scheduled event for site 12.34.212.28.
12/20/2010 3:56:07 AM	12.34.212.28	IP connection	UOW Failed After Retries	12/20/2010 12:56:07 PM: Unit of work 15 of polling set PollForAll failed after 2 service attempts and removed for site 12.34.212.28.

Figure 9. Polling Event Log

Once selections are made, a table containing data for Date Time, Event Code, and Event Description will display for examination.

Below is a table that displays a list of possible event codes and specific descriptions for each event code.

Event Code	Description
Communication Established	Successful communication and connection between the server and the gauge.
Communication Failed Modem Connected But No Response	Successful communication, but gauge did not respond to any commands.
Communication Failed Modem Errors	Miscellaneous errors due to unknown event (i.e. call dropped, static, etc.).
Communication Failed Modem Port In Use	Could not access modem because port in use at the time
Communication Failed No Answer	No pick up from gauge after 12 rings
Communication Failed No Dial Tone	Modem failed to connect with server
Communication Failed TCP Errors	Miscellaneous errors due to unknown event (i.e. loss of connection, garbage data, etc.).
Failed to Collect Gauge Configuration	Connection made and commands sent, but the data returned did not validate.
Gauge Update Failed Site Setup	Connection made and commands sent, but the setup information did not validate.
System Reset Failed	Reset command issue, but gauge did not respond.
UOW Cancelled	Individual polling task has been cancelled.
UOW Completed	Polling task successfully gathered data.
UOW Enqueue By Bulk Upload	List of sites have been inserted by bulk upload and have begun to process.
UOW Enqueue By On Demand Poll	The "Poll Now" event has been initialized.
UOW Enqueue By Query Gauge	Administrator has inserted site and initialized query of the site.
UOW Enqueue By Scheduler	The polling set has been executed through a set schedule.
UOW Enqueue By Site Setup Operator	The operator configuration has been initialized.
UOW Expired	Polling task has exceeded its max age limit for a unit of work. In Global Settings, default is set at 10 days.
UOW Failed After Retries	Polling task has failed due to exceeding max service attempts (default at 3 attempts).
UOW Failed Command Not Accepted	Polling command not recognized by gauge.
UOW Failed Database Failure	Failed to write or update data into database.
UOW Failed Invalid Check Sum	Integrity of data cannot be validated.
UOW Failed Invalid Response	Invalid data from gauge (i.e. connecting at a different speed/rate)
UOW Preempted	Task with higher priority placed in front of polling task.
UOW Replaced	Identical polling task replaced and put at higher priority than original polling task.
UOW Reprioritized	Polling task set to a different priority level.
UOW Requested	Polling queue service requested task.

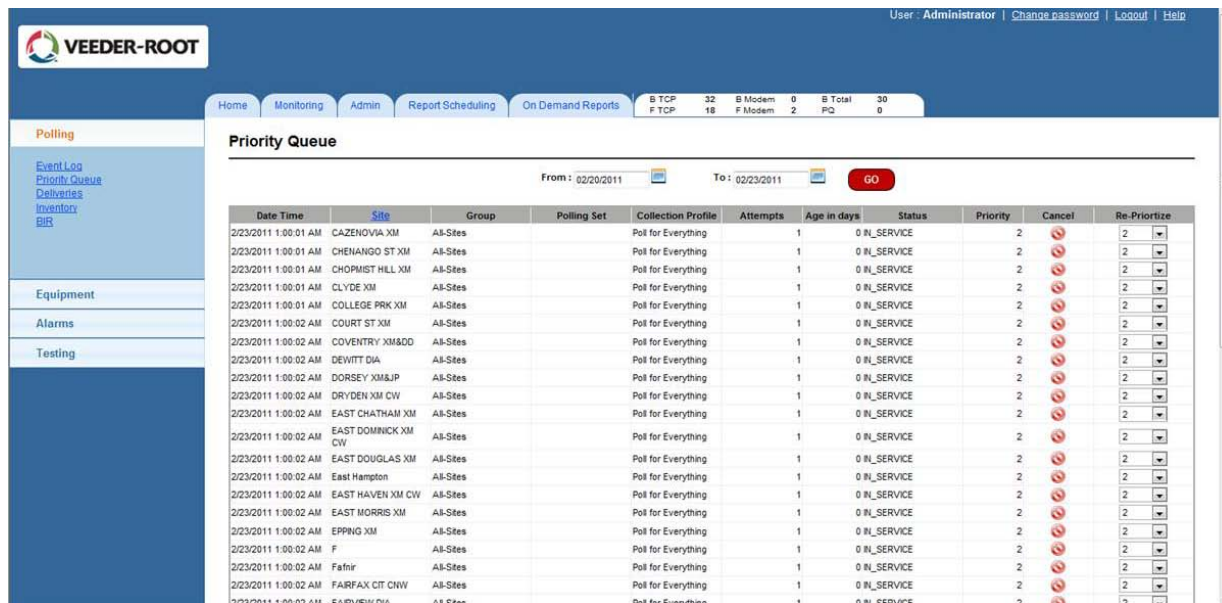
4.6 CHANGE POLLING PRIORITY QUEUE

Only the Administrator has the ability to change polling queue priorities though other users may view the contents of the queue.

To change the polling queue priorities, the User must click on the “Priority Queue” link located under the “Polling” section. The User must then select a:

- Date range (defaulted)

To edit, simply select a specific Priority Queue and edit options will appear to add/remove data.



Date Time	Site	Group	Polling Set	Collection Profile	Attempts	Age in days	Status	Priority	Cancel	Re-Prioritize
2/23/2011 1:00:01 AM	CAZENOVIA XM	AI-Sites	Pol for Everything		1	0	RL_SERVICE	2		2
2/23/2011 1:00:01 AM	CHENANGO ST XM	AI-Sites	Pol for Everything		1	0	RL_SERVICE	2		2
2/23/2011 1:00:01 AM	CHOPMIST HILL XM	AI-Sites	Pol for Everything		1	0	RL_SERVICE	2		2
2/23/2011 1:00:01 AM	CLYDE XM	AI-Sites	Pol for Everything		1	0	RL_SERVICE	2		2
2/23/2011 1:00:01 AM	COLLEGE PRK XM	AI-Sites	Pol for Everything		1	0	RL_SERVICE	2		2
2/23/2011 1:00:02 AM	COURT ST XM	AI-Sites	Pol for Everything		1	0	RL_SERVICE	2		2
2/23/2011 1:00:02 AM	COVENTRY XM&DD	AI-Sites	Pol for Everything		1	0	RL_SERVICE	2		2
2/23/2011 1:00:02 AM	DEWITT DIA	AI-Sites	Pol for Everything		1	0	RL_SERVICE	2		2
2/23/2011 1:00:02 AM	DORSEY XM&JP	AI-Sites	Pol for Everything		1	0	RL_SERVICE	2		2
2/23/2011 1:00:02 AM	DRYDEN XM CW	AI-Sites	Pol for Everything		1	0	RL_SERVICE	2		2
2/23/2011 1:00:02 AM	EAST CHATHAM XM	AI-Sites	Pol for Everything		1	0	RL_SERVICE	2		2
2/23/2011 1:00:02 AM	EAST DOMINICK XM CW	AI-Sites	Pol for Everything		1	0	RL_SERVICE	2		2
2/23/2011 1:00:02 AM	EAST DOUGLAS XM	AI-Sites	Pol for Everything		1	0	RL_SERVICE	2		2
2/23/2011 1:00:02 AM	East Hampton	AI-Sites	Pol for Everything		1	0	RL_SERVICE	2		2
2/23/2011 1:00:02 AM	EAST HAVEN XM CW	AI-Sites	Pol for Everything		1	0	RL_SERVICE	2		2
2/23/2011 1:00:02 AM	EAST MORRIS XM	AI-Sites	Pol for Everything		1	0	RL_SERVICE	2		2
2/23/2011 1:00:02 AM	ERRING XM	AI-Sites	Pol for Everything		1	0	RL_SERVICE	2		2
2/23/2011 1:00:02 AM	F	AI-Sites	Pol for Everything		1	0	RL_SERVICE	2		2
2/23/2011 1:00:02 AM	Fairir	AI-Sites	Pol for Everything		1	0	RL_SERVICE	2		2
2/23/2011 1:00:02 AM	FAIRFAX CIT CNV	AI-Sites	Pol for Everything		1	0	RL_SERVICE	2		2
2/23/2011 1:00:02 AM	FAIRVIEW DIA	AI-Sites	Pol for Everything		1	0	RL_SERVICE	2		2

Figure 10. Priority Queue

4.7 ACCESS POLLING DELIVERIES

To view the deliveries, the User must click on the “Deliveries” link located under the “Polling” section. The User will be prompted to select a:

- Tank (drop down menu)
- Date range (defaulted)

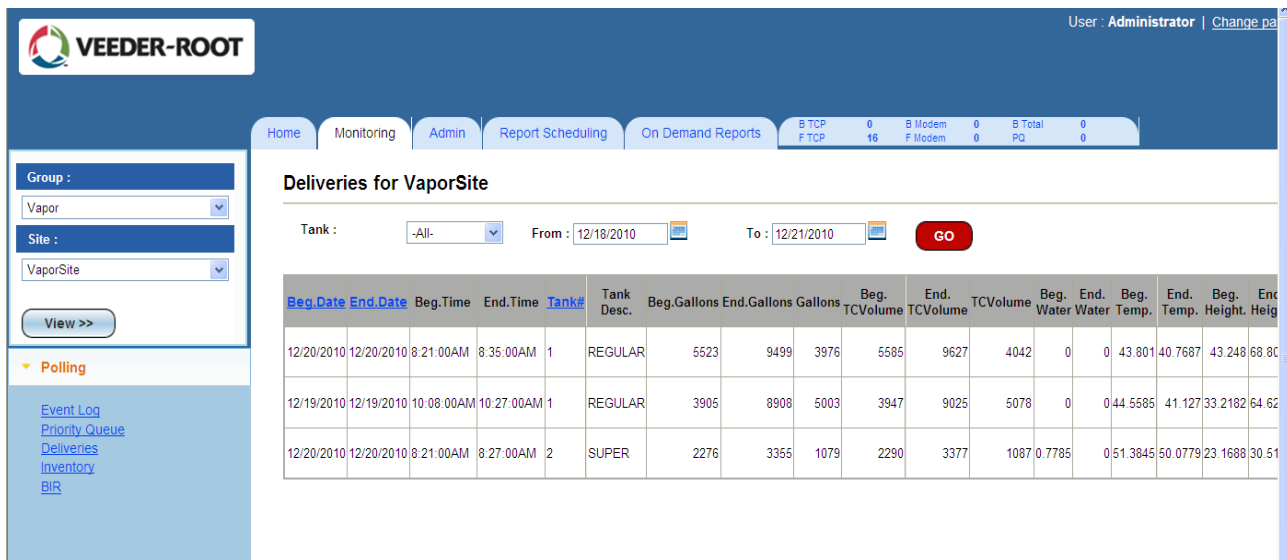


Figure 11. Polling Deliveries

4.8 ACCESS POLLING INVENTORY

To view inventory, the User must click on the “Inventory” link located under the “Polling” section. The User will be prompted to select a:

- Tank (drop down menu)
- Date range (defaulted)

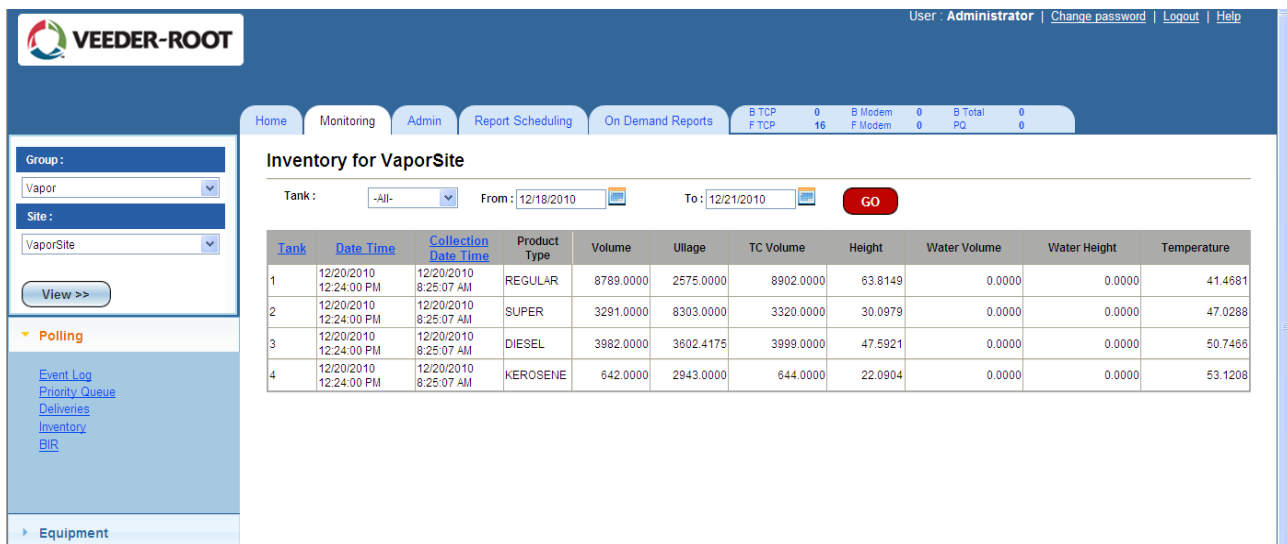
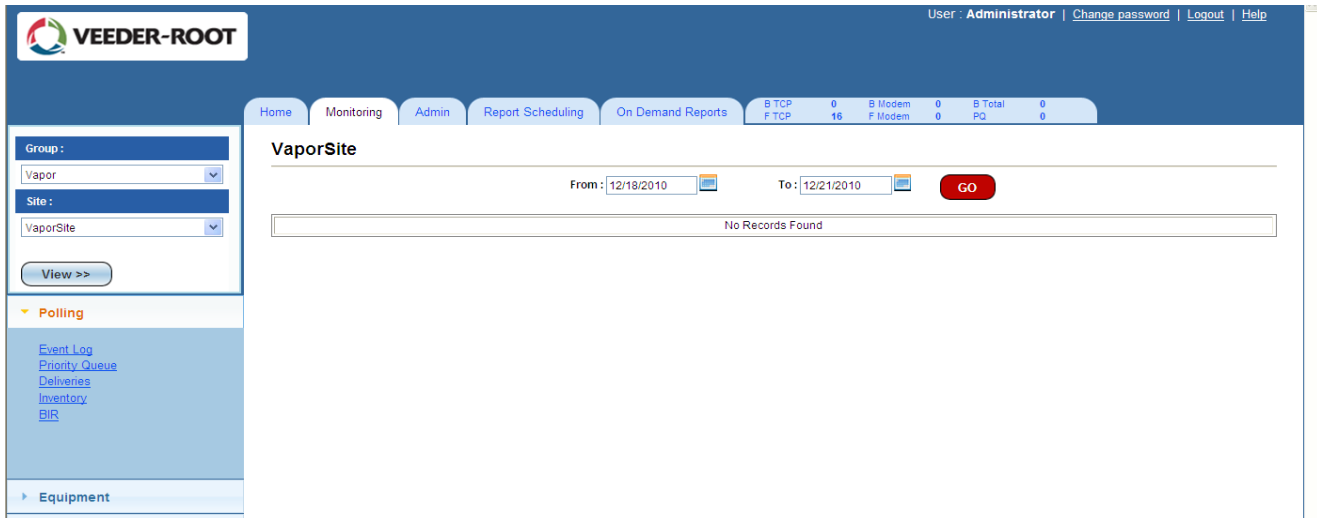


Figure 12. Polling Inventory

4.9 ACCESS POLLING BIR

To view BIR data, the User must click on the “BIR” link located under the “Polling” section. The User must first select a:

- Date range (defaulted)



The screenshot shows the VEEDER-ROOT web application interface. At the top, there is a header bar with the VEEDER-ROOT logo on the left and user information on the right: "User: Administrator | Change password | Logout | Help". Below the header is a navigation bar with tabs: Home, Monitoring, Admin, Report Scheduling, On Demand Reports, and a summary table. The summary table has columns for B TCP, F TCP, B Modem, F Modem, B Total, and PQ, with values 0, 16, 0, 0, 0, and 0 respectively. On the left side, there is a sidebar with a "Group:" dropdown menu set to "Vapor" and a "Site:" dropdown menu set to "VaporSite". Below these is a "View >>" button. Under the "Polling" section, there are links for Event Log, Priority Queue, Deliveries, Inventory, and BIR. The main content area is titled "VaporSite" and shows a date range selector with "From: 12/18/2010" and "To: 12/21/2010", a "GO" button, and a message "No Records Found" in a table.

Figure 13. Polling BIR

4.10 DISPLAY DELIVERIES, INVENTORY & BIR FROM A DIFFERENT GROUP/SITE

To display Deliveries, Inventory, and/or BIR information of a different Group or a different Site, the User must use the drop down menus located in the upper left hand corner of the page and select a:

- Group
- Site

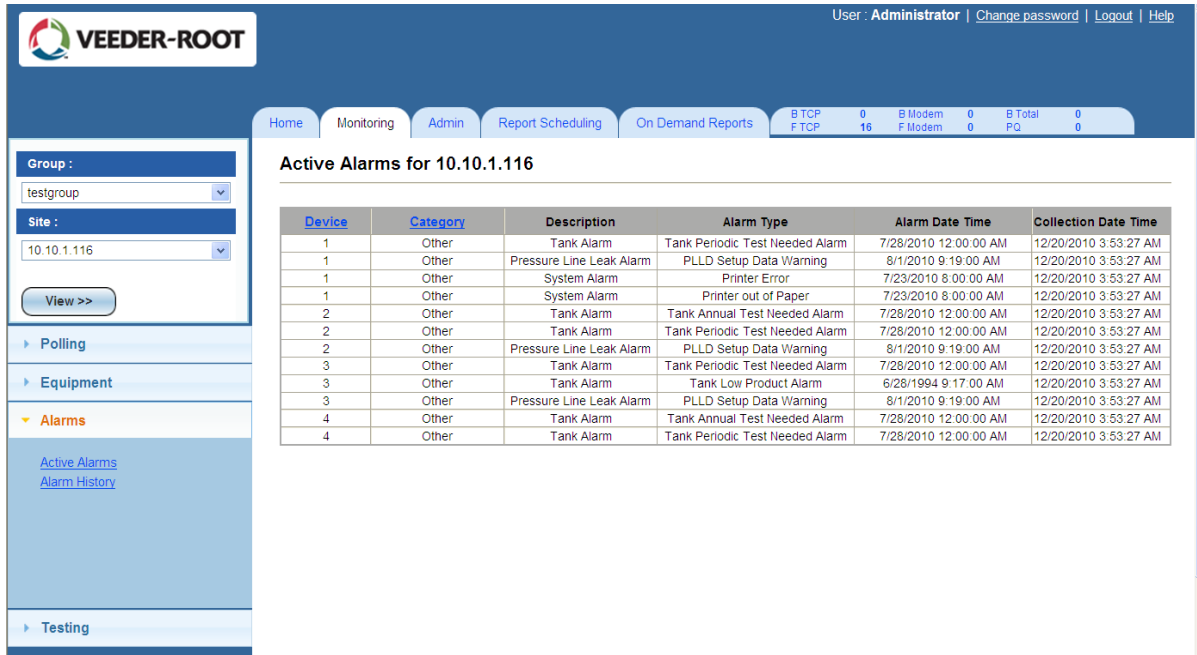
After selections are made, the User must click on “View”. The User will be taken back to the default landing page (Equipment), so they will have to re-select the “Polling” tab to view one of these categories.

4.11 ACCESS ACTIVE ALARMS

To view the active alarms for a site, the User must select the “Active Alarms” link located under the “Alarm” section.

After clicking on this link, a table containing data for Alarms Description, Type, Date Time, and Collection Date Time will appear for examination.

This page is directly accessible through the Alarms link provided in the Home page.



Group :
testgroup

Site :
10.10.1.116

View >>

▶ Polling

▶ Equipment

▼ Alarms

[Active Alarms](#)

[Alarm History](#)

▶ Testing

Home Monitoring Admin Report Scheduling On Demand Reports

User: Administrator | [Change password](#) | [Logout](#) | [Help](#)

B TCP 0 B Modem 0 B Total 0
F TCP 16 F Modem 0 PQ 0

Active Alarms for 10.10.1.116

Device	Category	Description	Alarm Type	Alarm Date Time	Collection Date Time
1	Other	Tank Alarm	Tank Periodic Test Needed Alarm	7/28/2010 12:00:00 AM	12/20/2010 3:53:27 AM
1	Other	Pressure Line Leak Alarm	PLLD Setup Data Warning	8/1/2010 9:19:00 AM	12/20/2010 3:53:27 AM
1	Other	System Alarm	Printer Error	7/23/2010 8:00:00 AM	12/20/2010 3:53:27 AM
1	Other	System Alarm	Printer out of Paper	7/23/2010 8:00:00 AM	12/20/2010 3:53:27 AM
2	Other	Tank Alarm	Tank Annual Test Needed Alarm	7/28/2010 12:00:00 AM	12/20/2010 3:53:27 AM
2	Other	Tank Alarm	Tank Periodic Test Needed Alarm	7/28/2010 12:00:00 AM	12/20/2010 3:53:27 AM
2	Other	Pressure Line Leak Alarm	PLLD Setup Data Warning	8/1/2010 9:19:00 AM	12/20/2010 3:53:27 AM
3	Other	Tank Alarm	Tank Periodic Test Needed Alarm	7/28/2010 12:00:00 AM	12/20/2010 3:53:27 AM
3	Other	Tank Alarm	Tank Low Product Alarm	6/28/1994 9:17:00 AM	12/20/2010 3:53:27 AM
3	Other	Pressure Line Leak Alarm	PLLD Setup Data Warning	8/1/2010 9:19:00 AM	12/20/2010 3:53:27 AM
4	Other	Tank Alarm	Tank Annual Test Needed Alarm	7/28/2010 12:00:00 AM	12/20/2010 3:53:27 AM
4	Other	Tank Alarm	Tank Periodic Test Needed Alarm	7/28/2010 12:00:00 AM	12/20/2010 3:53:27 AM

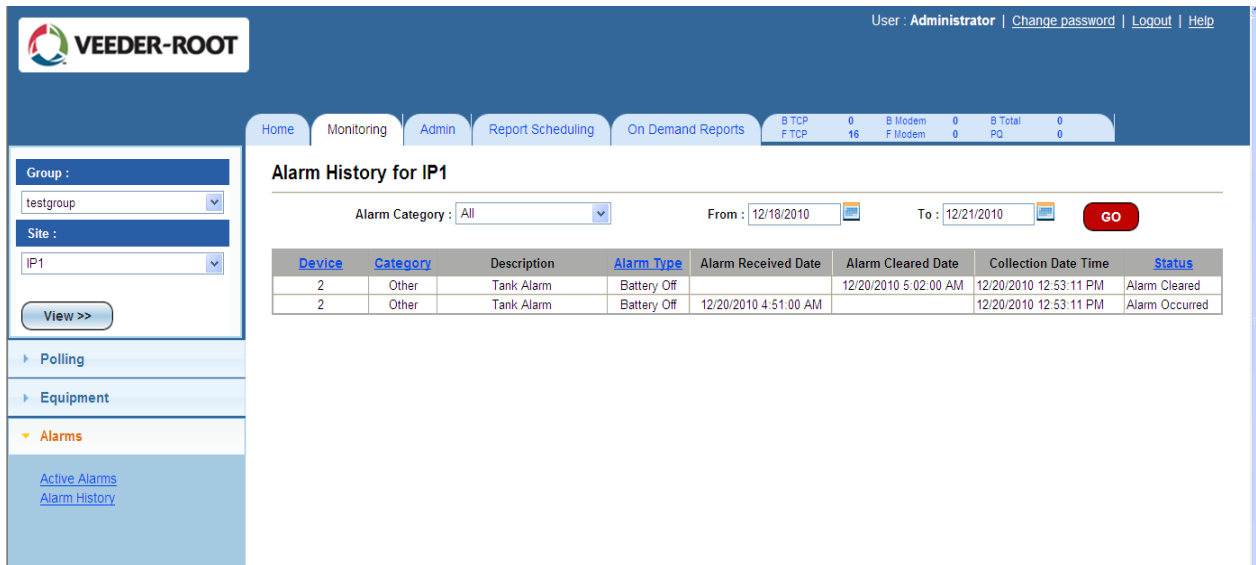
Figure 14. Active Alarms

4.12 ACCESS ALARM HISTORY

To view data for alarm history, the User must select the “Alarm History” link located under the “Alarms” section. The User will be prompted to select:

- Alarm Category (drop down menu)
- Date range (defaulted)

Data may be divided into multiple pages. If this is the case, there will be links at the bottom of the table to navigate from one page to the other.



The screenshot displays the 'Alarm History for IP1' page. On the left sidebar, under the 'Alarms' section, there are links for 'Active Alarms' and 'Alarm History'. The main content area features a title 'Alarm History for IP1' and a filter section with 'Alarm Category' set to 'All', 'From' date '12/18/2010', and 'To' date '12/21/2010'. A 'GO' button is present. Below the filters is a table with the following data:

Device	Category	Description	Alarm Type	Alarm Received Date	Alarm Cleared Date	Collection Date Time	Status
2	Other	Tank Alarm	Battery Off	12/20/2010 4:51:00 AM	12/20/2010 5:02:00 AM	12/20/2010 12:53:11 PM	Alarm Cleared
2	Other	Tank Alarm	Battery Off	12/20/2010 4:51:00 AM		12/20/2010 12:53:11 PM	Alarm Occurred

Figure 15. Alarm History

4.13 DISPLAY ACTIVE ALARMS & ALARM HISTORY FOR A DIFFERENT GROUP/SITE

To display Active Alarms and Alarm History information of a different Group or a different Site, the User must use the drop down menus located in the upper left hand corner of the page and select a:

- Group
- Site

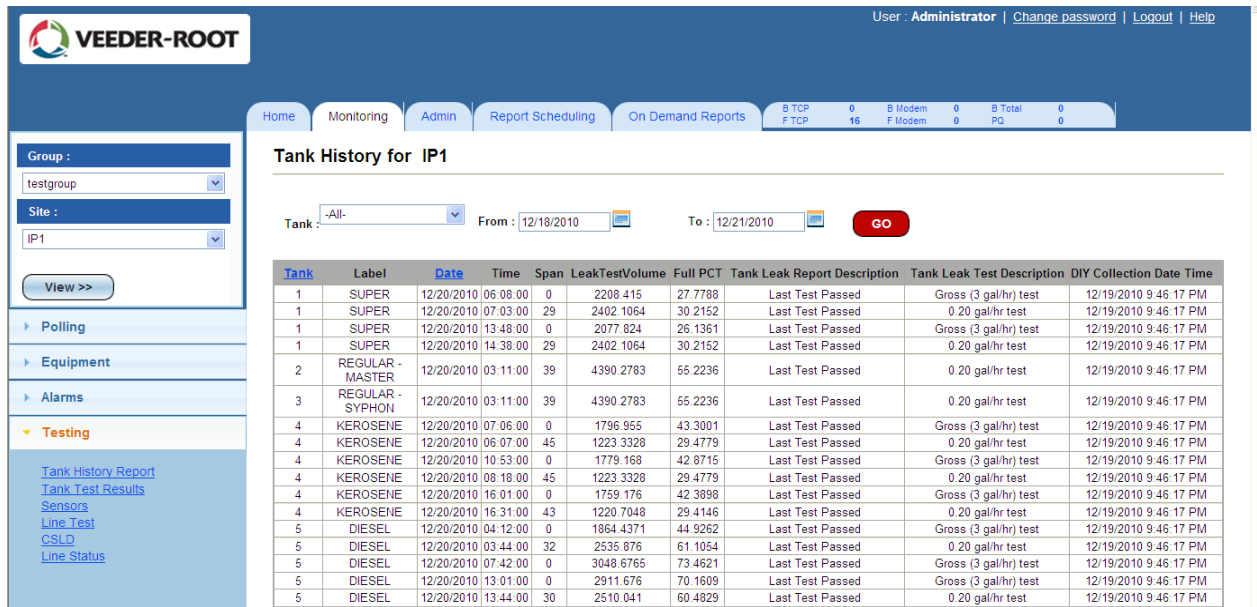
After selections are made, the User must click on "View". The User will be taken back to the default landing page (Equipment), so they will have to re-select the "Alarms" tab to view data concerning Alarms.

4.14 ACCESS TANK HISTORY REPORT

To view data for tank history, the User must select the "Tank History Report" link located under the "Testing" section. The User will be prompted to select a:

- Tank (drop down menu)
- Date range (defaulted)

Once selections are made, a table containing data for factors such as Leak Test Volume and Tank Leak Report Description will display for examination.



Tank History for IP1

Tank: From: To:

Tank	Label	Date	Time	Span	LeakTestVolume	Full PCT	Tank Leak Report Description	Tank Leak Test Description	DIY Collection Date Time
1	SUPER	12/20/2010	06:08:00	0	2208.415	27.7788	Last Test Passed	Gross (3 gal/hr) test	12/19/2010 9:46:17 PM
1	SUPER	12/20/2010	07:03:00	29	2402.1064	30.2152	Last Test Passed	0.20 gal/hr test	12/19/2010 9:46:17 PM
1	SUPER	12/20/2010	13:48:00	0	2077.824	26.1361	Last Test Passed	Gross (3 gal/hr) test	12/19/2010 9:46:17 PM
1	SUPER	12/20/2010	14:38:00	29	2402.1064	30.2152	Last Test Passed	0.20 gal/hr test	12/19/2010 9:46:17 PM
2	REGULAR - MASTER	12/20/2010	03:11:00	39	4390.2783	55.2236	Last Test Passed	0.20 gal/hr test	12/19/2010 9:46:17 PM
3	REGULAR - SYPHON	12/20/2010	03:11:00	39	4390.2783	55.2236	Last Test Passed	0.20 gal/hr test	12/19/2010 9:46:17 PM
4	KEROSENE	12/20/2010	07:06:00	0	1796.955	43.3001	Last Test Passed	Gross (3 gal/hr) test	12/19/2010 9:46:17 PM
4	KEROSENE	12/20/2010	06:07:00	45	1223.3328	29.4779	Last Test Passed	0.20 gal/hr test	12/19/2010 9:46:17 PM
4	KEROSENE	12/20/2010	10:53:00	0	1779.168	42.8715	Last Test Passed	Gross (3 gal/hr) test	12/19/2010 9:46:17 PM
4	KEROSENE	12/20/2010	08:18:00	45	1223.3328	29.4779	Last Test Passed	0.20 gal/hr test	12/19/2010 9:46:17 PM
4	KEROSENE	12/20/2010	16:01:00	0	1759.176	42.3898	Last Test Passed	Gross (3 gal/hr) test	12/19/2010 9:46:17 PM
4	KEROSENE	12/20/2010	16:31:00	43	1220.7048	29.4146	Last Test Passed	0.20 gal/hr test	12/19/2010 9:46:17 PM
5	DIESEL	12/20/2010	04:12:00	0	1864.4371	44.9262	Last Test Passed	Gross (3 gal/hr) test	12/19/2010 9:46:17 PM
5	DIESEL	12/20/2010	03:44:00	32	2535.876	61.1054	Last Test Passed	0.20 gal/hr test	12/19/2010 9:46:17 PM
5	DIESEL	12/20/2010	07:42:00	0	3048.6765	73.4621	Last Test Passed	Gross (3 gal/hr) test	12/19/2010 9:46:17 PM
5	DIESEL	12/20/2010	13:01:00	0	2911.676	70.1609	Last Test Passed	Gross (3 gal/hr) test	12/19/2010 9:46:17 PM
5	DIESEL	12/20/2010	13:44:00	30	2510.041	60.4829	Last Test Passed	0.20 gal/hr test	12/19/2010 9:46:17 PM

Figure 16. Tank History Report

4.15 ACCESS TANK TEST RESULTS

To view tank test results, the User must select the “Tank Test Results” link located under the “Testing” section. The User will be prompted to select a:

- Tank (drop down menu)
- Date range (defaulted)

Once selections are made, a table containing data for factors such as Tank Leak Test and Test Rate will display for examination.

Data may be divided into multiple pages. If this is the case, there will be links at the bottom of the table to navigate from one page to the other.

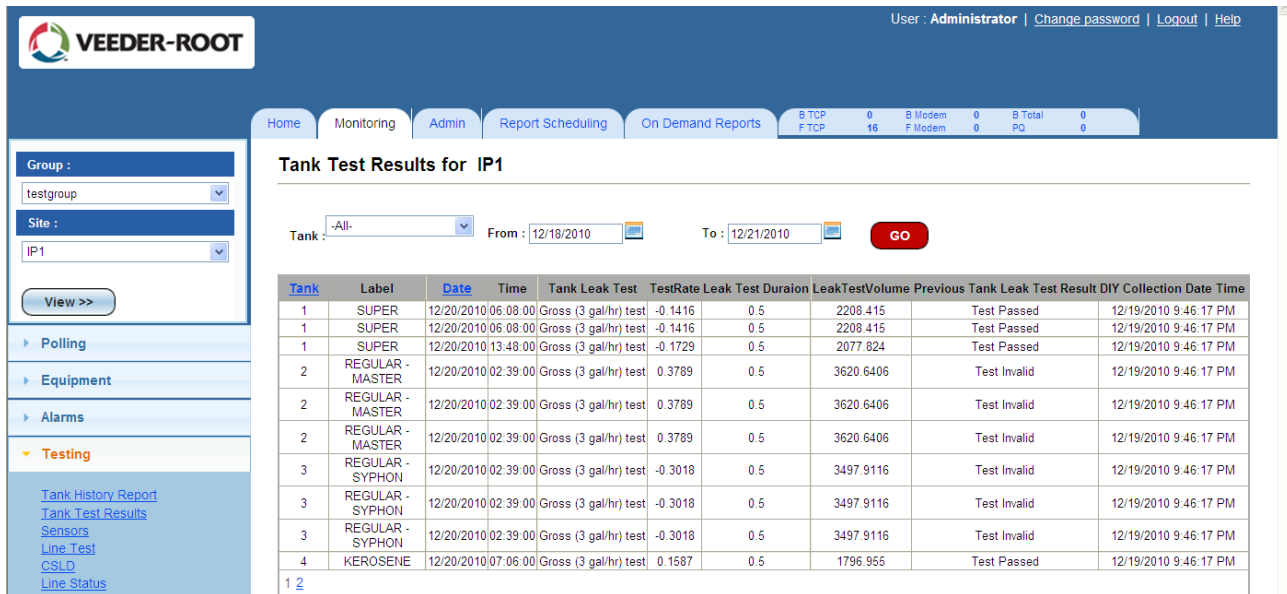
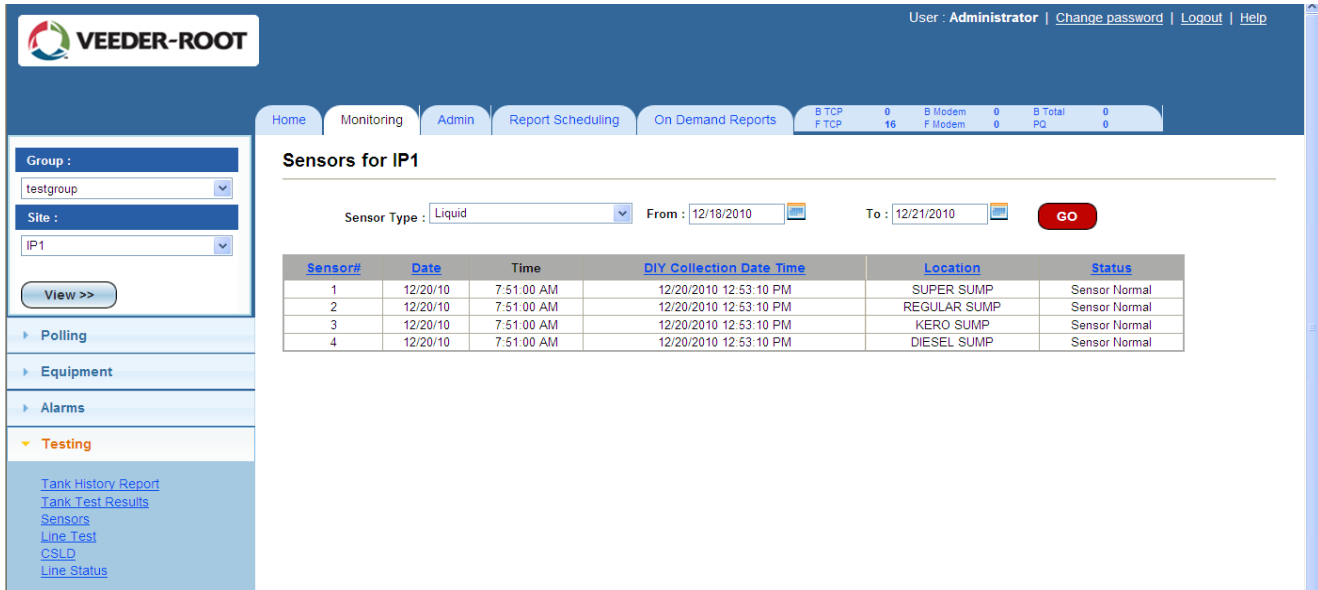


Figure 17. Tank Test Results

4.16 ACCESS SENSORS

To view data for sensors, the User must select the “Sensors” link located under the “Testing” section. The User will be prompted to select a:

- Sensor Type (drop down menu)
- Date range (defaulted)
- Once selections are made, a table containing data for factors such as InformNET Collection Time Date, Location, and Status will display for examination.



The screenshot shows the VEEDER-ROOT Inform.NET Administrator's Manual interface. The top navigation bar includes links for Home, Monitoring, Admin, Report Scheduling, and On Demand Reports. The left sidebar contains a menu with options like Group, Site, IP1, Polling, Equipment, Alarms, and Testing. The main content area displays the "Sensors for IP1" page, which includes a form for selecting Sensor Type (Liquid), From date (12/18/2010), and To date (12/21/2010), with a GO button. Below the form is a table showing sensor data.

Sensor#	Date	Time	DIY Collection Date Time	Location	Status
1	12/20/10	7:51:00 AM	12/20/2010 12:53:10 PM	SUPER SUMP	Sensor Normal
2	12/20/10	7:51:00 AM	12/20/2010 12:53:10 PM	REGULAR SUMP	Sensor Normal
3	12/20/10	7:51:00 AM	12/20/2010 12:53:10 PM	KERO SUMP	Sensor Normal
4	12/20/10	7:51:00 AM	12/20/2010 12:53:10 PM	DIESEL SUMP	Sensor Normal

Figure 18. Sensors

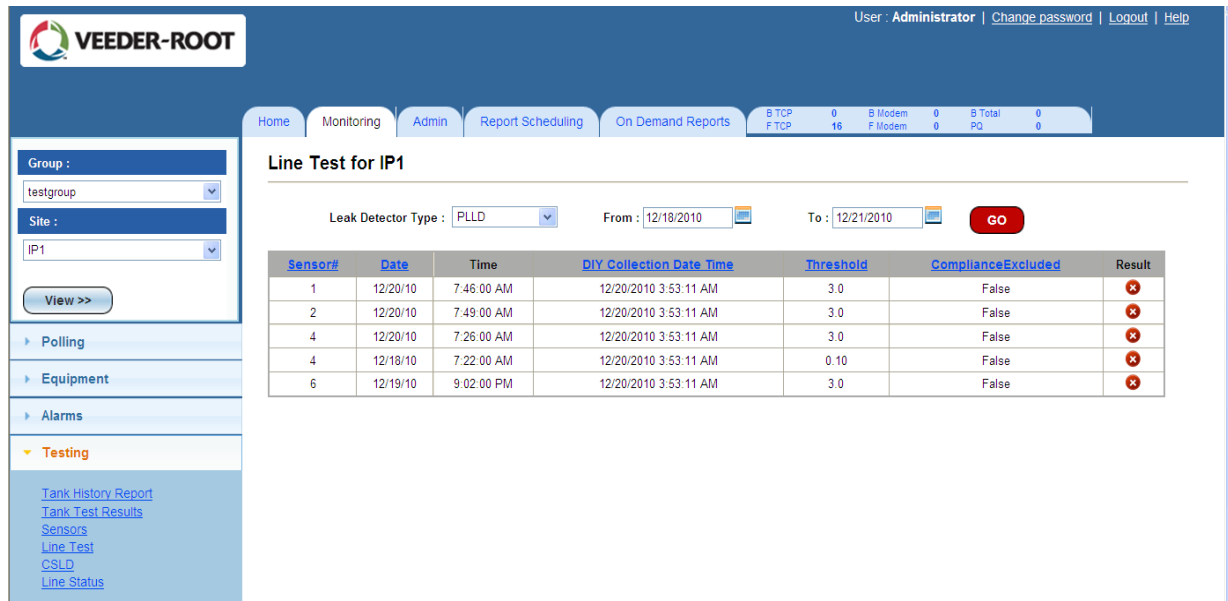
4.17 ACCESS LINE TEST

To view the Line Test data, the User must select the "Line Test" link located under the "Testing" section. The User will be prompted to select a:

- Leak Detector Type (drop down menu)
- Date range (defaulted).

Once selections are made, a table containing data for factors such as InformNET Collection Time Date, Threshold, and Compliance Excluded will display for examination.

This page is directly accessible through the "Tests" link provided in the Home page.



Line Test for IP1

Leak Detector Type : PLLD From : 12/18/2010 To : 12/21/2010 **GO**

Sensor#	Date	Time	DIY Collection Date Time	Threshold	ComplianceExcluded	Result
1	12/20/10	7:46:00 AM	12/20/2010 3:53:11 AM	3.0	False	✗
2	12/20/10	7:49:00 AM	12/20/2010 3:53:11 AM	3.0	False	✗
4	12/20/10	7:26:00 AM	12/20/2010 3:53:11 AM	3.0	False	✗
4	12/18/10	7:22:00 AM	12/20/2010 3:53:11 AM	0.10	False	✗
6	12/19/10	9:02:00 PM	12/20/2010 3:53:11 AM	3.0	False	✗

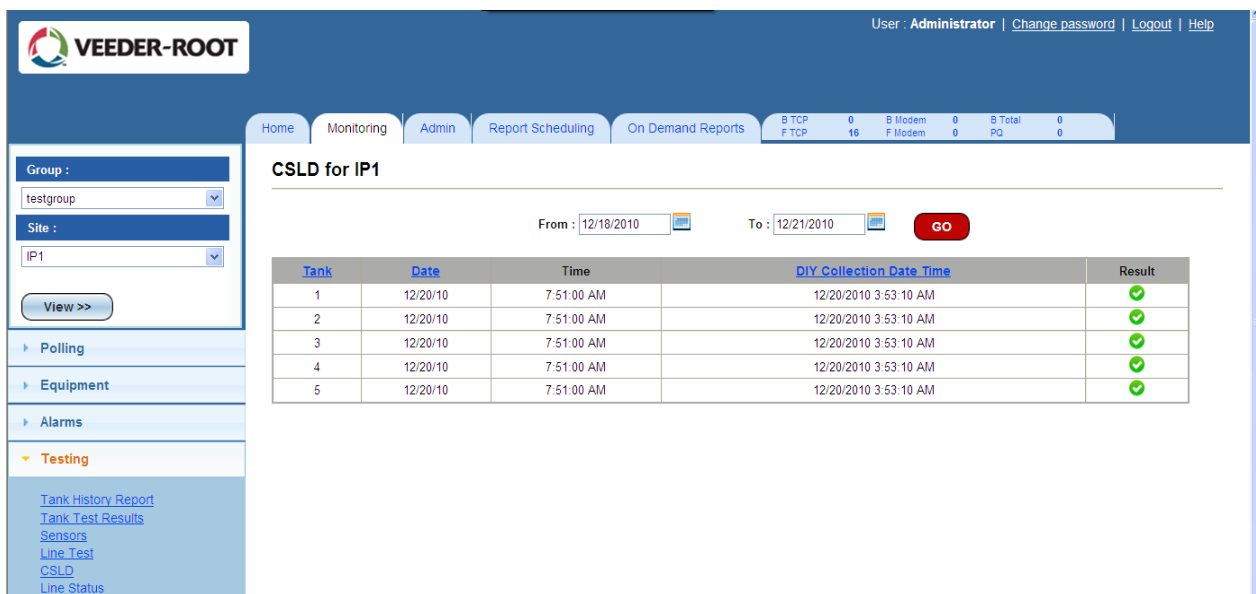
Figure 19. Line Test

4.18 ACCESS CSLD

To view data for CSLD, the User must select the “CSLD” link located under the “Testing” section. The User will be prompted to select a:

- Date range (defaulted)

Under the Results column, the User will see a green circle with a check or a red circle with an “X”. The User may interpret these symbols as a Pass or Fail for each test, accordingly.



CSLD for IP1

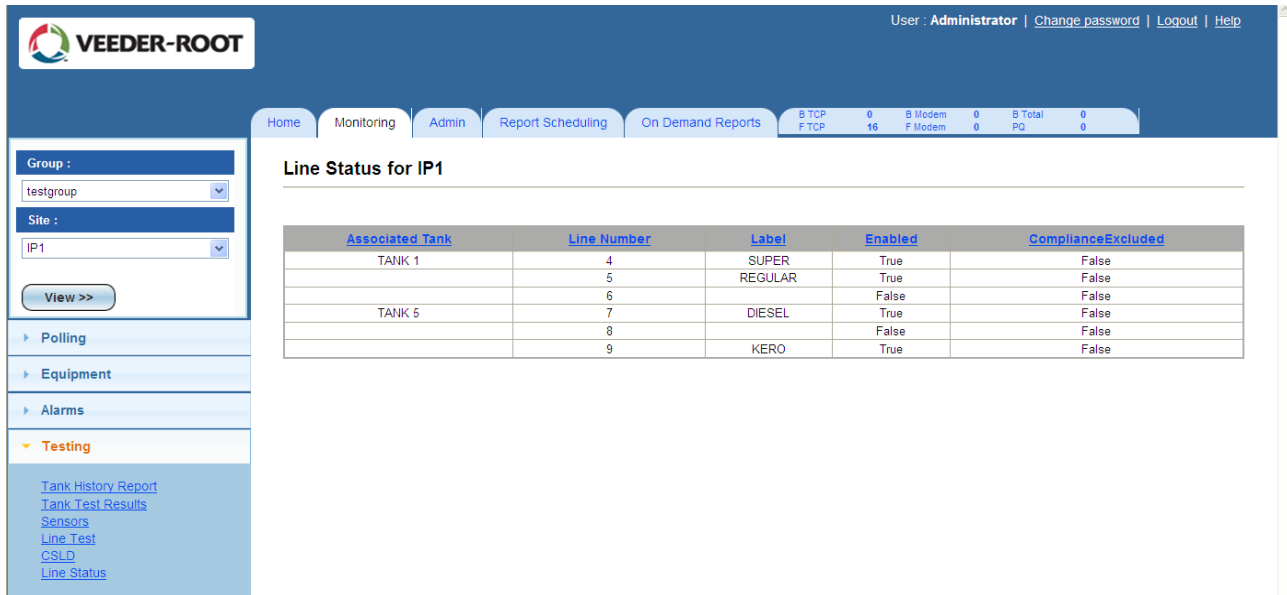
From : 12/18/2010 To : 12/21/2010 **GO**

Tank	Date	Time	DIY Collection Date Time	Result
1	12/20/10	7:51:00 AM	12/20/2010 3:53:10 AM	✓
2	12/20/10	7:51:00 AM	12/20/2010 3:53:10 AM	✓
3	12/20/10	7:51:00 AM	12/20/2010 3:53:10 AM	✓
4	12/20/10	7:51:00 AM	12/20/2010 3:53:10 AM	✓
5	12/20/10	7:51:00 AM	12/20/2010 3:53:10 AM	✓

Figure 20. CSLD

4.19 ACCESS LINE STATUS

To view data for Line Status, the User must select the “Line Status” link located under the “Testing” section.



The screenshot shows the VEEDER-ROOT web application interface. The top navigation bar includes links for Home, Monitoring, Admin, Report Scheduling, and On Demand Reports. The left sidebar contains a 'Group' dropdown set to 'testgroup' and a 'Site' dropdown set to 'IP1', with a 'View >>' button. The 'Testing' section is expanded, showing links for Tank History Report, Tank Test Results, Sensors, Line Test, CSLD, and Line Status. The main content area displays the 'Line Status for IP1' table.

Associated Tank	Line Number	Label	Enabled	ComplianceExcluded
TANK 1	4	SUPER	True	False
	5	REGULAR	True	False
	6		False	False
TANK 5	7	DIESEL	True	False
	8		False	False
	9	KERO	True	False

Figure 21. Line Status

4.20 DISPLAY TANK HISTORY REPORT, TANK TEST RESULTS, SENSORS, LINE TEST, CSLD AND LINE STATUS FOR A DIFFERENT GROUP/SITE

To display information of a different Group or a different Site, the User must use the drop down menus located in the upper left hand corner of the page to select a:

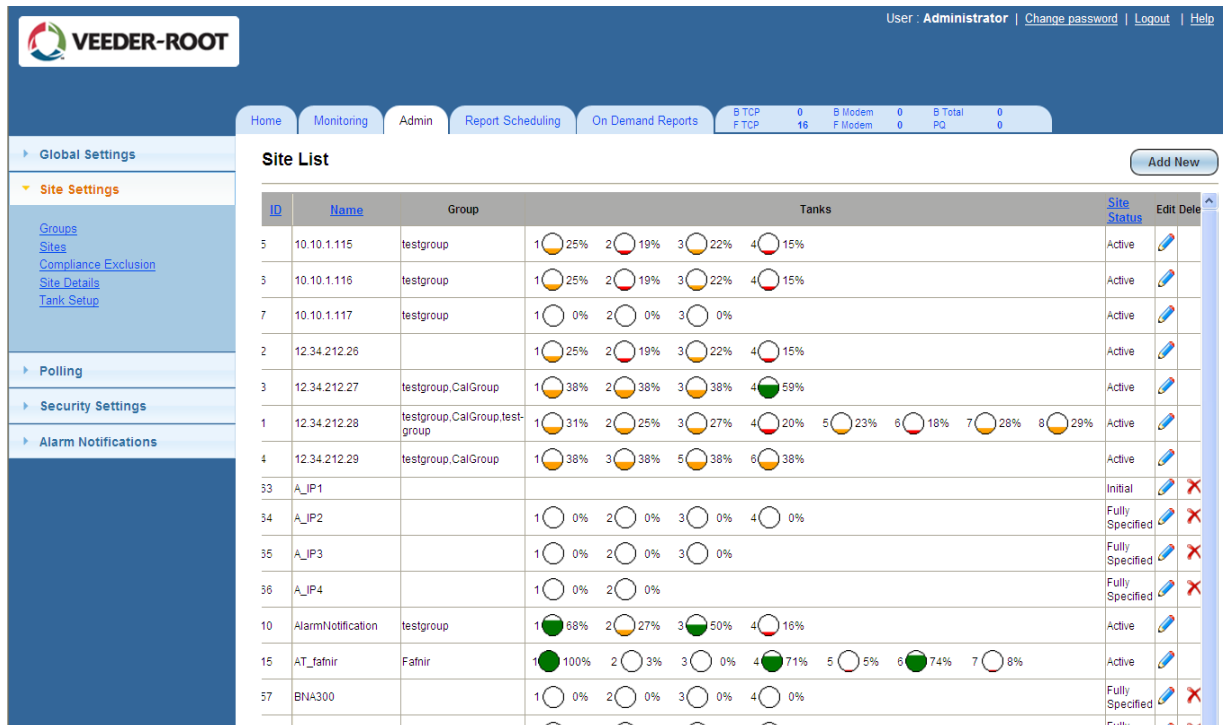
- Group
- Site

After selections are made, the User must click on “View”. The User will be taken back to the default landing page (Equipment), so they will have to re-select the “Testing” tab to view one of these categories.

5. ADMIN

The “Admin” tab is a feature in which the Administrator User has the authority to change and adjust the system configuration. For example, the Administrator User may add Sites, add other users, and configure limitations and exceptions for different Users.

The figure below is the default landing page, which is also the same as selecting the “Sites” link under the “Site Settings” tab.



The screenshot shows the VEEDER-ROOT Admin interface. At the top, the user is logged in as 'Administrator' with links for 'Change password', 'Logout', and 'Help'. Below the navigation bar, the 'Admin' tab is selected. The left sidebar contains a menu with 'Global Settings' and 'Site Settings' (expanded). Under 'Site Settings', there are links for 'Groups', 'Sites', 'Compliance Exclusion', 'Site Details', and 'Tank Setup'. The main content area displays the 'Site List' table.

ID	Name	Group	Tanks								Site Status	Edit	Delete
5	10.10.1.115	testgroup	1 25%	2 19%	3 22%	4 15%					Active		
3	10.10.1.116	testgroup	1 25%	2 19%	3 22%	4 15%					Active		
7	10.10.1.117	testgroup	1 0%	2 0%	3 0%						Active		
2	12.34.212.26		1 25%	2 19%	3 22%	4 15%					Active		
3	12.34.212.27	testgroup, CalGroup	1 38%	2 38%	3 38%	4 59%					Active		
1	12.34.212.28	testgroup, CalGroup, testgroup	1 31%	2 25%	3 27%	4 20%	5 23%	6 18%	7 26%	8 29%	Active		
4	12.34.212.29	testgroup, CalGroup	1 38%	3 38%	5 38%	6 38%					Active		
33	A_IP1										Initial		
34	A_IP2		1 0%	2 0%	3 0%	4 0%					Fully Specified		
35	A_IP3		1 0%	2 0%	3 0%						Fully Specified		
36	A_IP4		1 0%	2 0%							Fully Specified		
10	AlarmNotification	testgroup	1 68%	2 27%	3 50%	4 16%					Active		
15	AT_fatnir	Fatnir	1 100%	2 3%	3 0%	4 71%	5 5%	6 74%	7 8%		Active		
57	BNA300		1 0%	2 0%	3 0%	4 0%					Fully Specified		

Figure 22. Admin Page

5.1 ACCESS SITE LIST

This page will automatically display once the User clicks on the “Admin” tab located at the top of the page. To navigate to this page from other pages, the User must select the “Sites” link located under the “Site Settings” tab.

Once the page loads, a table containing data for each Site, Tanks, Group, and Site Status will display for examination. The User will also have options to add, edit, and delete sites.

5.1.1 ADD A NEW SITE

To add a new site, the User must select the “Add New” button located at the top right hand corner of the page. The User will be directed to a page with data entry fields to fill out. This page contains two tabs to navigate between: Information and Connectivity.

Once all the necessary information is filled out, the User must hit the “Save” button in order for the site to be stored and included in the list.

The User must also select the “Query Gauge” button to query the initial gauge configuration. This process may take a few minutes to start. If the query is successful, the state of the gauge will change from Initial to Fully Specified once the Site List is refreshed.

5.1.2 EDIT AN EXISTING SITE

To edit an existing site, the User must select the edit link (Pencil) of the corresponding site. The User will be directed to a page with data entry fields to edit. The entry fields should be filled out because it is an existing site. This page contains two tabs to navigate between: Information and Connectivity.

Once the User is done editing, select the “Save” button in order to successfully store the new data.

The User must also select the “Query Gauge” button to requery the gauge configuration. This process may take a few minutes to start.

Global Settings

Site Settings

Groups

Sites

Compliance Exclusion

Site Details

Tank Setup

Polling

Security Settings

Alarm Notifications

Home

Monitoring

Admin

Report Scheduling

On Demand Reports

B TCP0

F TCP16

B Modem0

F Modem0

B Total0

PQ0

Information

Connectivity

Site Information

Site Name :
Address1 :
Address2 :
Address3 :
City :
Country :
State/Province :
Postal Code :
Telephone :
Fax :
Time Zone :
Max Service Attempts :
Post Connection Pause :
ATG Details
Make :
Model :
☐ Security Code

Query Gauge

Save

Cancel

Figure 23. Add/Edit Site List – Information Page

Global Settings

Site Settings

Groups

Sites

Compliance Exclusion

Site Details

Tank Setup

Polling

Security Settings

Alarm Notifications

Home

Monitoring

Admin

Report Scheduling

On Demand Reports

B TCP0

F TCP16

B Modem0

F Modem0

B Total0

PQ0

Information

Connectivity

ATG Connectivity

Telephone

Data Pre-fix :
Number :
Post Connection Command :
Baud :
Parity :
Stop Bits :
Data Bits :

Internet

IP Address :
Port :

Query Gauge

Save

Cancel

Figure 24. Add/Edit Site List – Connectivity Page

5.1.3 DELETE AN EXISTING SITE

To delete an existing site, simply select the delete link (red 'X') and confirm the deletion.

5.2 ACCESS GROUPS

To view site groups, the User must select the "Groups" link located under the "Site Settings" tab.

A table containing a list of existing groups, as well as the options to add, edit, and delete groups will display.

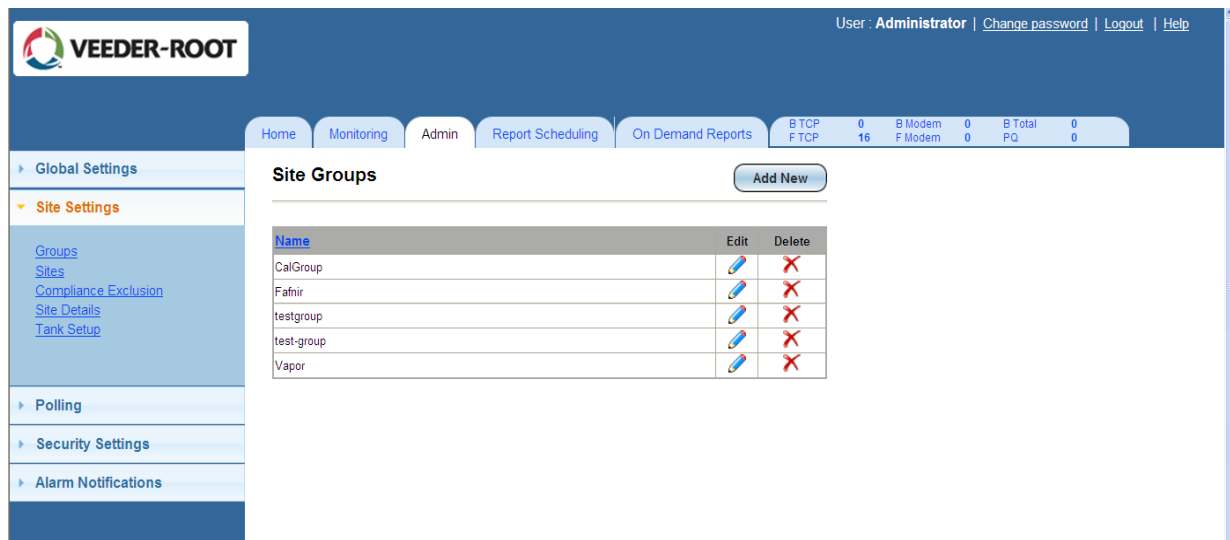


Figure 25. Site Groups

5.2.1 ADD A NEW GROUP

To add a new group, simply select the "Add New" button located at the top right hand corner of the page. The User will be directed to a page with data entry fields to fill out.

The User must name the new group, select the corresponding sites from the Available Sites list, and move them over to the Assigned Sites list. The User must then select the appropriate sites under the Assigned Sites list.

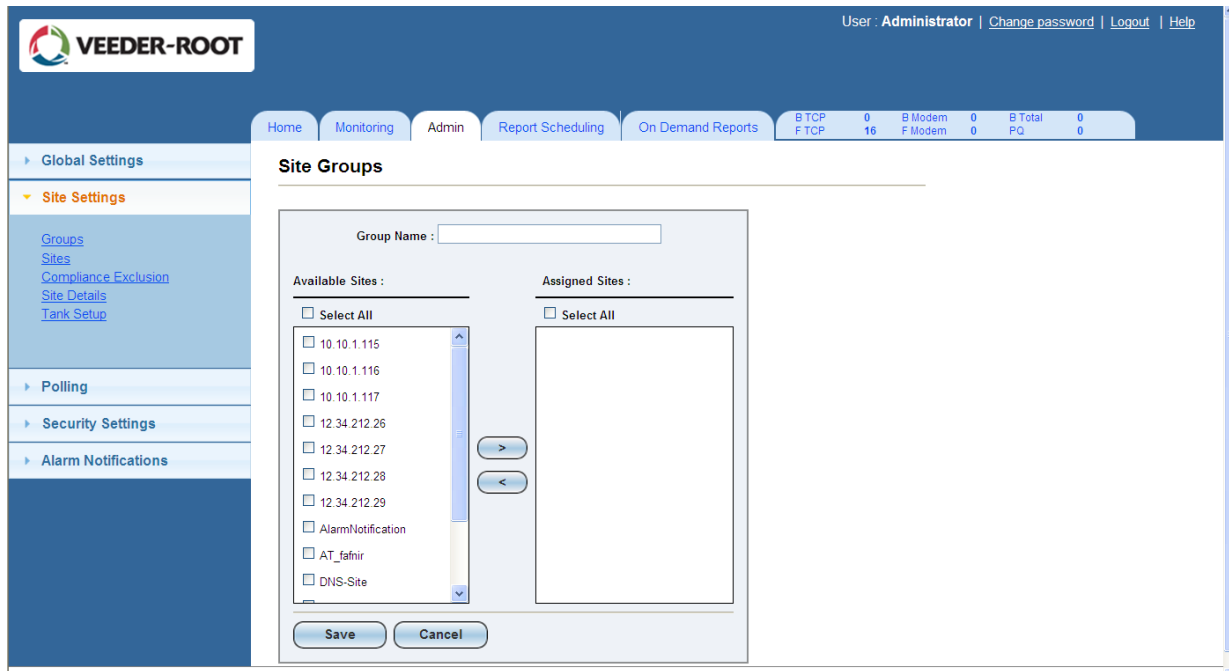
Once all the necessary information is filled out, the User must hit the "Save" button in order for the group to be stored and included in the list.

5.2.2 EDIT AN EXISTING GROUP

To edit an existing group, simply select the edit link (Pencil) of the corresponding group. The User will be directed to a page with data entry fields to edit. The entry fields should have data in them because it is an existing group.

The User has the option to rename the group or add more Available Sites to the Assigned Sites list.

Once the User is done editing, select the “Save” button in order to successfully store the new data.



The screenshot displays the VEEDER-ROOT web application interface. At the top, the user is logged in as 'Administrator' with links for 'Change password', 'Logout', and 'Help'. The main navigation bar includes 'Home', 'Monitoring', 'Admin', 'Report Scheduling', and 'On Demand Reports'. A sidebar on the left lists 'Global Settings' (with 'Site Settings' expanded) and 'Polling'. The 'Site Settings' section includes links for 'Groups', 'Sites', 'Compliance Exclusion', 'Site Details', and 'Tank Setup'. The 'Admin' section includes 'Polling', 'Security Settings', and 'Alarm Notifications'. The main content area is titled 'Site Groups' and contains a form for editing a group. The form has a 'Group Name' field at the top. Below it, there are two columns: 'Available Sites' and 'Assigned Sites'. The 'Available Sites' column has a 'Select All' checkbox and a list of sites with checkboxes: 10.10.1.115, 10.10.1.116, 10.10.1.117, 12.34.212.26, 12.34.212.27, 12.34.212.28, 12.34.212.29, AlarmNotification, AT_fafnir, and DNS-Site. The 'Assigned Sites' column also has a 'Select All' checkbox and is currently empty. Between the two columns are two arrow buttons, '>' and '<'. At the bottom of the form are 'Save' and 'Cancel' buttons.

Figure 26. Add/Edit Site Groups

5.2.3 DELETE AN EXISTING GROUP

To delete an existing group, simply select the delete link (red 'X') of the corresponding group and confirm the deletion.

5.3 ACCESS COMPLIANCE EXCLUSION

To view data for compliance exclusions, the User must select the “Compliance Exclusion” link located under the “Site Settings” Tab. The User will be prompted to select a:

- Site Group
- Site

The User will select the appropriate tanks and lines to exclude. The User must click both “Exclude Tanks” and “Exclude Lines” to successfully suppress the selected data from being reported.

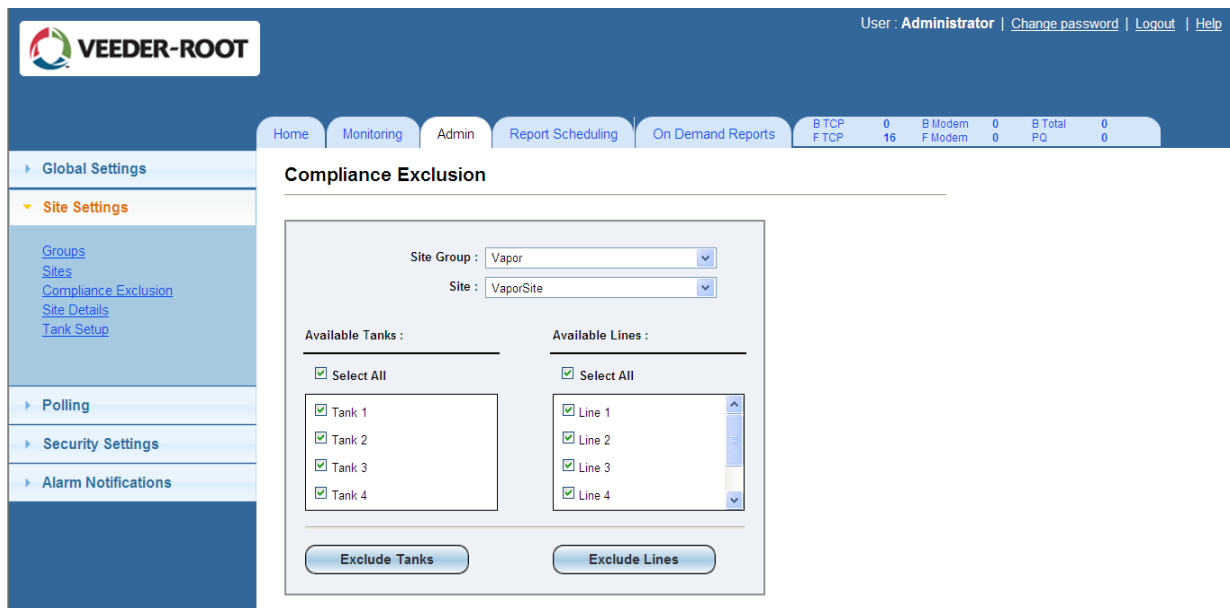


Figure 27. Compliance Exclusion

5.4 ACCESS SITE DETAILS

To view site details, the User must select the “Site Details” link located under the “Site Settings” tab. The User will be prompted to select a:

- Group
- Site
- Site Status

The User may choose to view a group of sites or just a single site at a time.

A list of the sites selected will appear in the left box, and each site will have subcategories which include Site Detail, Gauge, Tanks, Lines, and Sensor. Under each subcategory, there will be additional subcategories such as Information and Connectivity.

- IP1
 - Sitedetail
 - Information
 - Connectivity

If the User clicks on a particular subcategory such as “Information”, details that correspond with that subcategory will appear in the right box as highlighted in red below.

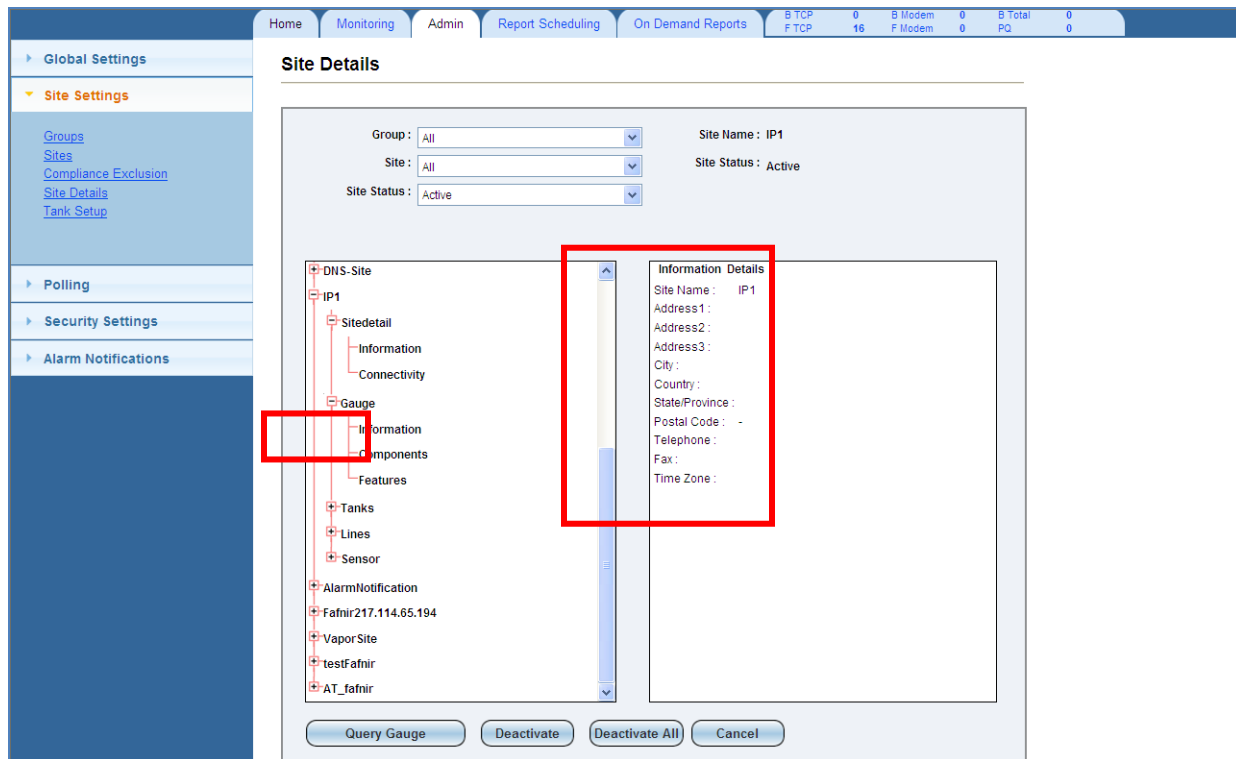


Figure 28. Site Details

5.4.1 DEACTIVATE SITES

To deactivate a site or sites, the User must select the sites they want to deactivate. Once selected, the User will hit the “Deactivate” button located at the bottom of the page and confirm the deactivation.

To deactivate all the sites, simply hit the “Deactivate All” button and confirm the deactivation.

5.4.2 QUERY GAUGE

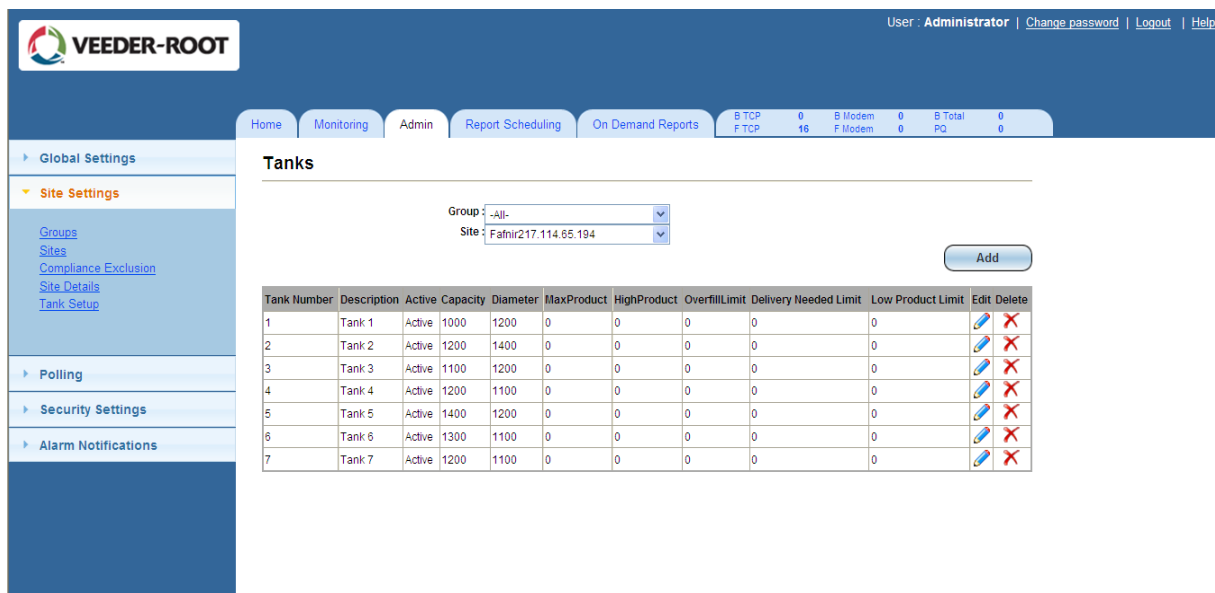
To query/requery the gauge configuration, simply select the “Query Gauge” button. This action will only query/requery the sites listed in the left box.

5.5 ACCESS TANK SETUP

To view options for tank setup, the User must select the “Tank Setup” link located under the “Site Settings” tab. The User will be prompted to select a:

- Group
- Site

Once selections are made, a table containing data for factors such as Diameter, Max Product, High Product, Delivery Needed Limit, and Low Product Limit will display for examination. The options to add, edit, and delete tanks will also be available in this table.



User : Administrator | [Change password](#) | [Logout](#) | [Help](#)

Home Monitoring Admin Report Scheduling On Demand Reports

Global Settings

Site Settings

Groups Sites Compliance Exclusion Site Details Tank Setup

Polling

Security Settings

Alarm Notifications

Tanks

Group: -All- Site: Fahir217.114.65.194

Add

Tank Number	Description	Active	Capacity	Diameter	MaxProduct	HighProduct	OverfillLimit	Delivery Needed Limit	Low Product Limit	Edit	Delete
1	Tank 1	Active	1000	1200	0	0	0	0	0		
2	Tank 2	Active	1200	1400	0	0	0	0	0		
3	Tank 3	Active	1100	1200	0	0	0	0	0		
4	Tank 4	Active	1200	1100	0	0	0	0	0		
5	Tank 5	Active	1400	1200	0	0	0	0	0		
6	Tank 6	Active	1300	1100	0	0	0	0	0		
7	Tank 7	Active	1200	1100	0	0	0	0	0		

Figure 29. Tank Setup

5.5.1 ADD A TANK

To add a tank, simply select the “Add” button located at the top right hand corner of the page. The User will be directed to a page with data entry fields to fill out.

The User must hit the “Save” button in order to successfully store the new data.

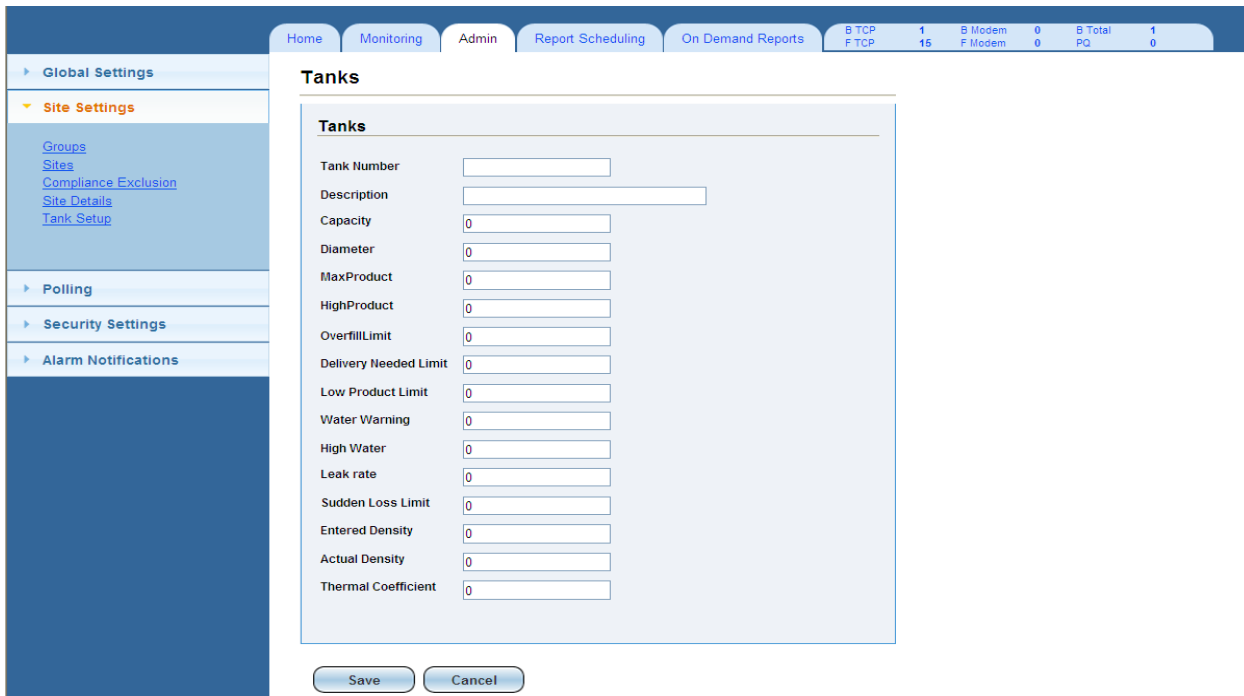
5.5.2 EDIT AN EXISTING TANK

To edit an existing tank, simply select the edit link (Pencil) of the corresponding tank. The User will be directed to a page with data entry fields to edit. The data fields should have data in them because it is an existing tank.

Once the User is done editing, select the “Save” button in order to successfully store the new data.

5.5.3 DELETE A TANK

To delete a tank, simply select the delete link (red “X”) of the corresponding tank and confirm deletion.



The screenshot displays the 'Tanks' management interface. On the left is a navigation menu with 'Global Settings' expanded, showing 'Site Settings' (Groups, Sites, Compliance Exclusion, Site Details, Tank Setup), 'Polling', 'Security Settings', and 'Alarm Notifications'. The main content area is titled 'Tanks' and contains a form with the following fields:

- Tank Number
- Description
- Capacity
- Diameter
- MaxProduct
- HighProduct
- OverfillLimit
- Delivery Needed Limit
- Low Product Limit
- Water Warning
- High Water
- Leak rate
- Sudden Loss Limit
- Entered Density
- Actual Density
- Thermal Coefficient

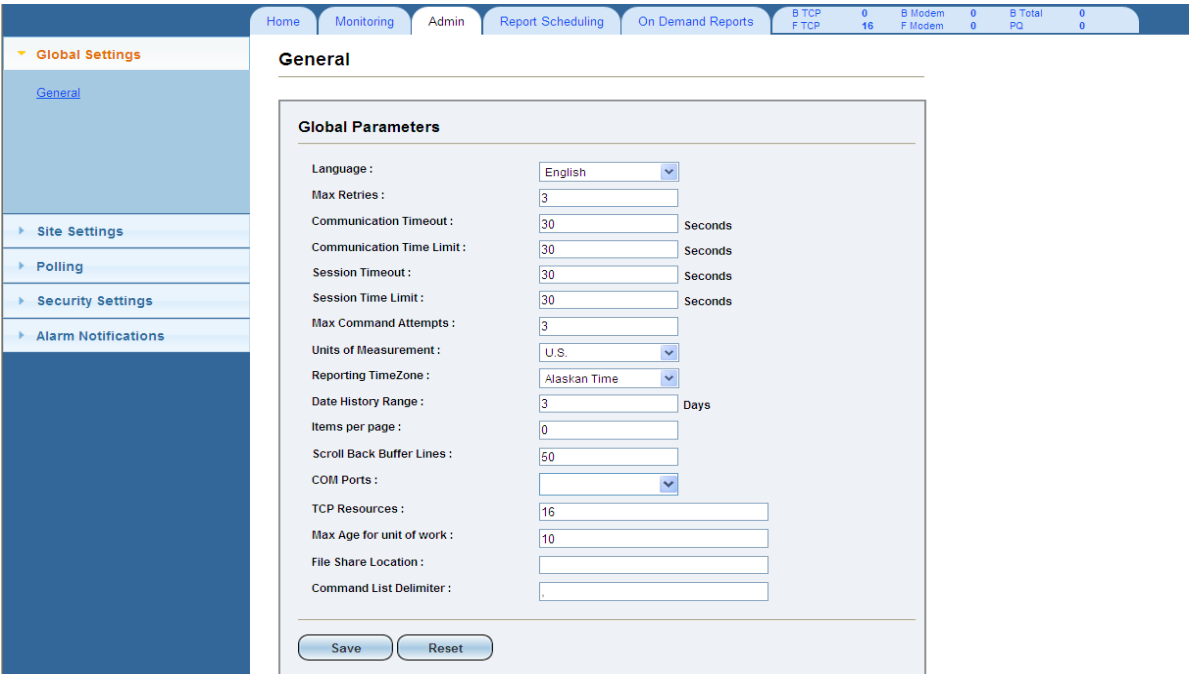
At the bottom of the form are 'Save' and 'Cancel' buttons. A top navigation bar includes links for Home, Monitoring, Admin, Report Scheduling, and On Demand Reports, along with status indicators for B TCP, F TCP, B Modem, F Modem, B Total, and PQ.

Figure 30. Add/Edit Tank

5.6 ACCESS GLOBAL PARAMETERS (GENERAL)

To view general information, the User must select the “General” link located under the “Global Settings” tab. The User will be directed to a page with data entry fields that may be edited.

The User may edit the information by inputting new data into the fields and hitting the “Save” button.



General

Global Parameters

Language : English

Max Retries : 3

Communication Timeout : 30 Seconds

Communication Time Limit : 30 Seconds

Session Timeout : 30 Seconds

Session Time Limit : 30 Seconds

Max Command Attempts : 3

Units of Measurement : U.S.

Reporting Timezone : Alaskan Time

Date History Range : 3 Days

Items per page : 0

Scroll Back Buffer Lines : 50

COM Ports :

TCP Resources : 16

Max Age for unit of work : 10

File Share Location :

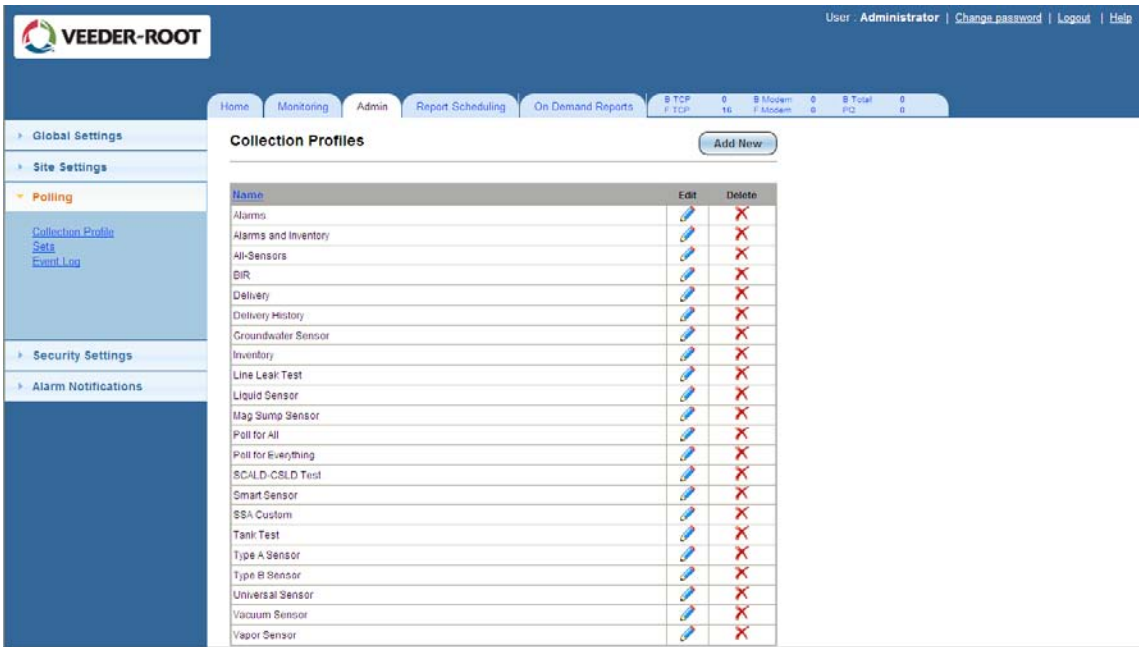
Command List Delimiter : .

Save Reset

Figure 31. Global Parameters (General)

5.7 ACCESS COLLECTION PROFILES

To view data for collection profiles, the User must select the “Collection Profiles” link located under the “Polling” tab. Along with a list of existing Collection Profiles, the options to add, edit, and delete profiles will be available.



Collection Profiles

[Add New](#)













































Name	Edit	Delete
Alarms		
Alarms and Inventory		
All-Sensors		
DIR		
Delivery		
Delivery History		
Groundwater Sensor		
Inventory		
Line Leak Test		
Liquid Sensor		
Mag Sump Sensor		
Poll for All		
Poll for Everything		
SCALD/CSLD Test		
Smart Sensor		
SSA Custom		
Tank Test		
Type A Sensor		
Type B Sensor		
Universal Sensor		
Vacuum Sensor		
Vapor Sensor		

Figure 32. Polling Schedule

5.7.1 ADD A NEW COLLECTION PROFILE

To add a new Collection Profile, simply select the “Add New” button located at the top right hand corner of the page. The User will be directed to a page with data entry fields to fill out.

The User must hit the “Save” button in order to successfully store the new data.

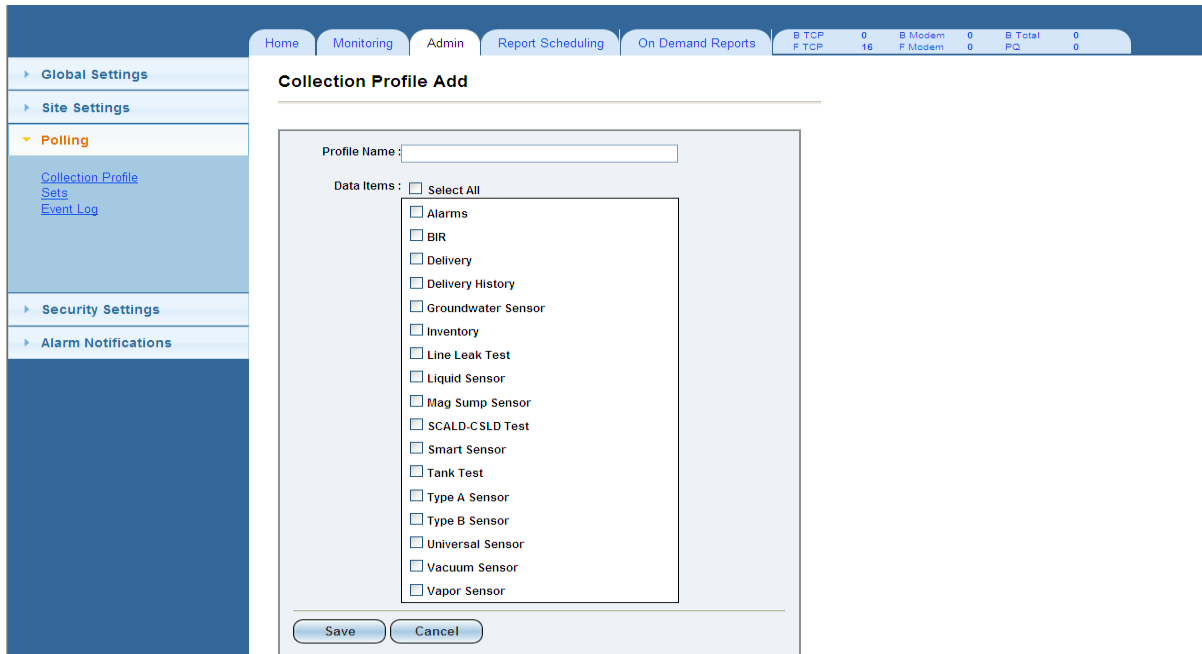


Figure 33. Add/Edit Collection Profile

5.7.2 EDIT AN EXISTING COLLECTION PROFILE

To edit an existing Collection Profile, simply select the edit link (Pencil) of the corresponding profile. The User will be directed to a page with data entry fields to edit. The entry fields should have data in them because it is in existing Collection Profile.

Once the User is done editing, select the “Save” button in order to successfully store the new data.

5.7.3 DELETE A COLLECTION PROFILE

To delete a Collection Profile, simply select the delete link (red “X”) of the corresponding profile and confirm deletion.

5.8 ACCESS SETS

To view data for polling sets, the User must select the “Sets” link located under the “Polling” tab.

Once the page loads, a list of existing sets along with the options to add, edit, delete, and schedule sets will display.

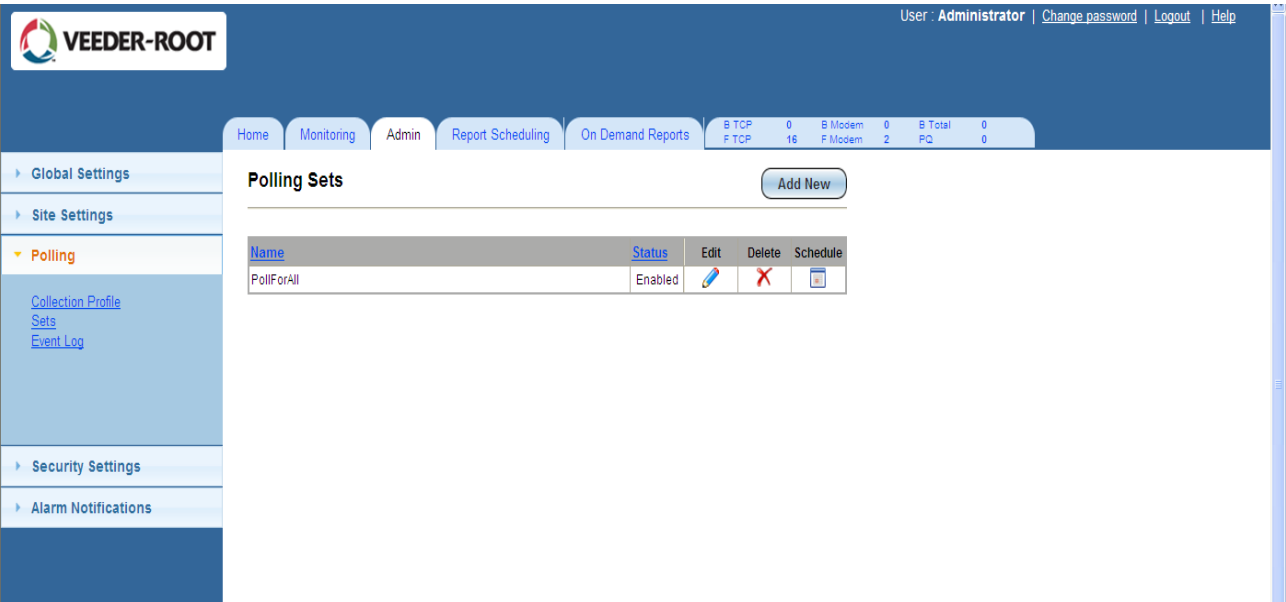


Figure 34. Sets

5.8.1 ADD A NEW SET

To add a new set, simply select the “Add New” button located at the top right hand corner of the page. The User will be directed to a page with data entry fields to fill out.

When the User selects a particular Site Group and a Collection Profile, a list of corresponding items will appear under the appropriate column.

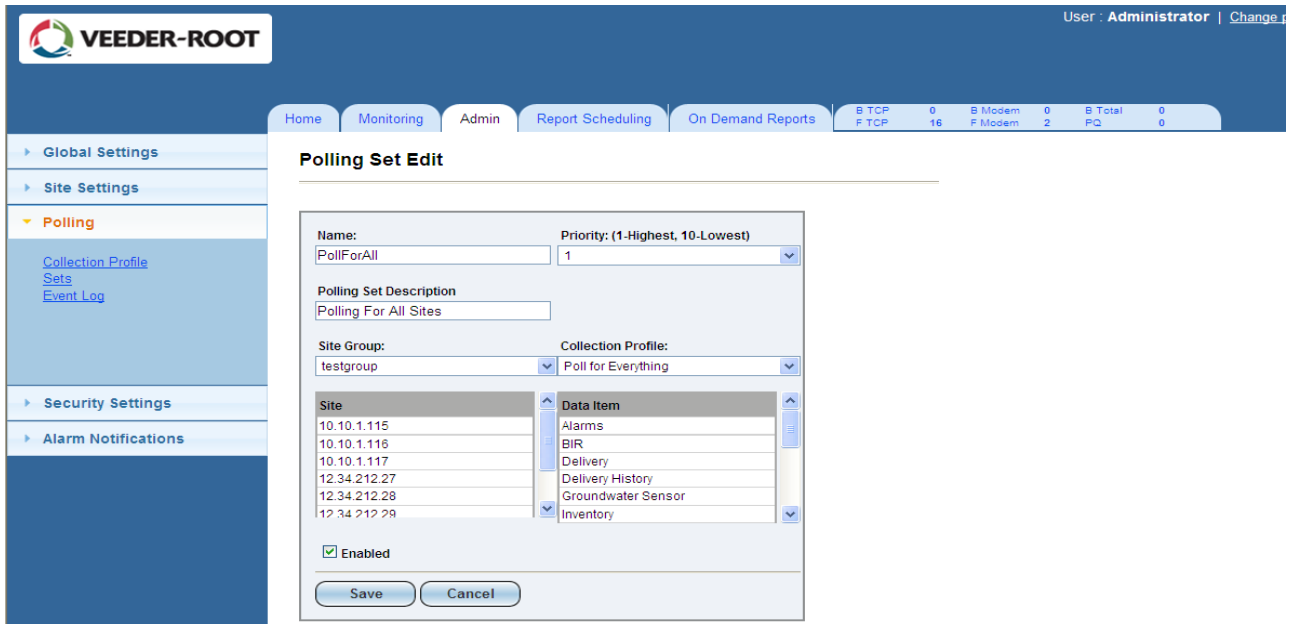
The User should check the “Enabled” box if the set is enabled.

The User must hit the “Save” button in order to successfully store the new data.

5.8.2 EDIT AN EXISTING SET

To edit an existing set, simply select the edit link (Pencil) of the corresponding site. The User will be directed to a page with data entry fields to edit. The entry fields should have data in them because it is an existing set.

Once the User is done editing, select the “Save” button in order to successfully store the new data.



The screenshot shows the 'Polling Set Edit' form in the VEEDER-ROOT application. The form is titled 'Polling Set Edit' and is located in the 'Admin' section of the application. The form contains the following fields and controls:

- Name:** A text input field containing 'PollForAll'.
- Priority: (1-Highest, 10-Lowest):** A dropdown menu set to '1'.
- Polling Set Description:** A text input field containing 'Polling For All Sites'.
- Site Group:** A dropdown menu set to 'testgroup'.
- Collection Profile:** A dropdown menu set to 'Poll for Everything'.
- Site:** A list of sites with the following IP addresses: 10.10.1.115, 10.10.1.116, 10.10.1.117, 12.34.212.27, 12.34.212.28, and 12.34.212.29.
- Data Item:** A list of data items with the following names: Alarms, BIR, Delivery, Delivery History, Groundwater Sensor, and Inventory.
- Enabled:** A checkbox that is checked.
- Buttons:** 'Save' and 'Cancel' buttons at the bottom.

Figure 35. Add/Edit Sets

5.8.3 DELETE A SET

To delete a set, simply select the delete link (red “X”) of the corresponding set and confirm deletion.

5.8.4 SCHEDULE POLLING

To schedule polling, the User must select the schedule link (Calendar) of the corresponding set.

The User will be directed to a page with data entry fields to edit. The entry fields should have data in them because it is an existing set. If the set is newly added, then the schedule page will be empty.

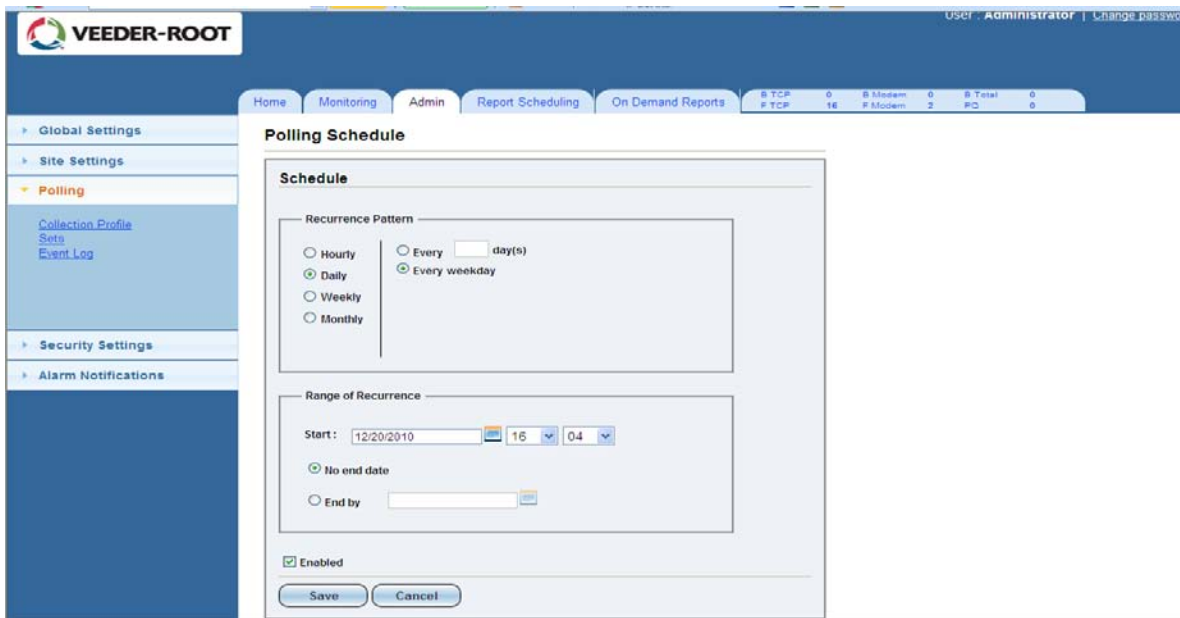


Figure 36. Polling Schedule

The User should check the “Enabled” box if the set is enabled.

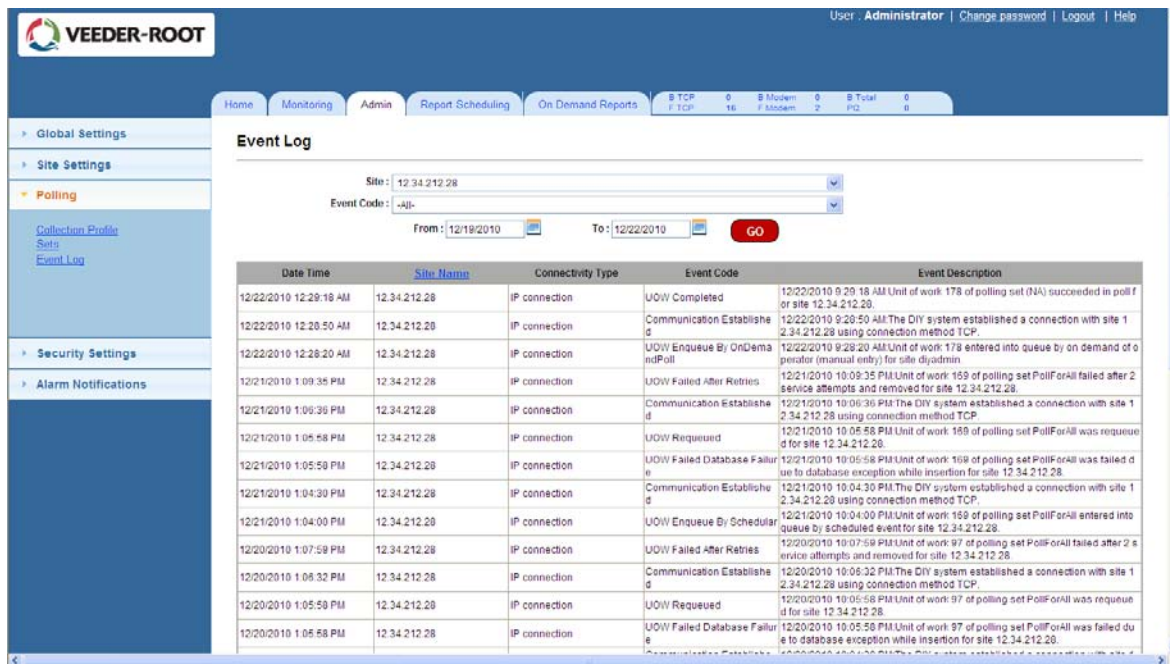
Once the User is done editing, select the “Save” button in order to successfully store the new data.

5.9 ACCESS POLLING EVENT LOG (Same as Section 4.5)

This page contains the exact same data as the Event Log located in the “Monitoring” tab and the “Polling” section. Therefore, there are two navigation methods to pull up this data.

Under the “Polling” section within the “Admin” tab, there is a link called “Event Log”. By clicking this link, the User will be directed to the Event Log page in which prompts will appear to select a:

- Site (drop down menu)
- Event Code (drop down menu)
- Date range (defaulted)



Event Log

Site: 12.34.212.28
 Event Code: -All-
 From: 12/18/2010 To: 12/22/2010 **GO**

Date Time	Site Name	Connectivity Type	Event Code	Event Description
12/22/2010 12:29:18 AM	12.34.212.28	IP connection	UOW Completed	12/22/2010 9:20:18 AM Unit of work 178 of polling set (NA) succeeded in poll f or site 12.34.212.28.
12/22/2010 12:20:50 AM	12.34.212.28	IP connection	Communication Establish	12/22/2010 9:20:50 AM The DIY system established a connection with site 1 2.34.212.28 using connection method TCP.
12/22/2010 12:28:20 AM	12.34.212.28	IP connection	UOW Enqueue By OnDema	12/22/2010 9:28:20 AM Unit of work 178 entered into queue by on demand of o pendur (manual entry) for site diadmin
12/21/2010 1:09:35 PM	12.34.212.28	IP connection	UOW Failed After Retries	12/21/2010 10:09:35 PM Unit of work 159 of polling set PollForAll failed after 2 service attempts and removed for site 12.34.212.28.
12/21/2010 1:06:36 PM	12.34.212.28	IP connection	Communication Establish	12/21/2010 10:06:36 PM The DIY system established a connection with site 1 2.34.212.28 using connection method TCP.
12/21/2010 1:05:58 PM	12.34.212.28	IP connection	UOW Requested	12/21/2010 10:05:58 PM Unit of work 159 of polling set PollForAll was requeste d for site 12.34.212.28.
12/21/2010 1:05:58 PM	12.34.212.28	IP connection	UOW Failed Database Failur	12/21/2010 10:05:58 PM Unit of work 109 of polling set PollForAll was failed d ue to database exception while insertion for site 12.34.212.28.
12/21/2010 1:04:30 PM	12.34.212.28	IP connection	Communication Establish	12/21/2010 10:04:30 PM The DIY system established a connection with site 1 2.34.212.28 using connection method TCP.
12/21/2010 1:04:00 PM	12.34.212.28	IP connection	UOW Enqueue By Scheduler	12/21/2010 10:04:00 PM Unit of work 159 of polling set PollForAll entered into queue by scheduled event for site 12.34.212.28.
12/20/2010 1:07:59 PM	12.34.212.28	IP connection	UOW Failed After Retries	12/20/2010 10:07:59 PM Unit of work 97 of polling set PollForAll failed after 2 s ervice attempts and removed for site 12.34.212.28.
12/20/2010 1:05:32 PM	12.34.212.28	IP connection	Communication Establish	12/20/2010 10:05:32 PM The DIY system established a connection with site 1 2.34.212.28 using connection method TCP.
12/20/2010 1:05:58 PM	12.34.212.28	IP connection	UOW Requested	12/20/2010 10:05:58 PM Unit of work 97 of polling set PollForAll was requeste d for site 12.34.212.28.
12/20/2010 1:05:58 PM	12.34.212.28	IP connection	UOW Failed Database Failur	12/20/2010 10:05:58 PM Unit of work 97 of polling set PollForAll was failed du e to database exception while insertion for site 12.34.212.28.

Figure 37. Polling Event Log

Event Code	Description
Communication Established	Successful communication and connection between the server and the gauge.
Communication Failed Modem Connected But No Response	Successful communication, but gauge did not respond to any commands.
Communication Failed Modem Errors	Miscellaneous errors due to unknown event (i.e. call dropped, static, etc.).
Communication Failed Modem Port In Use	Could not access modem because port in use at the time
Communication Failed No Answer	No pick up from gauge after 12 rings
Communication Failed No Dial Tone	Modem failed to connect with server
Communication Failed TCP Errors	Miscellaneous errors due to unknown event (i.e. loss of connection, garbage data, etc.).
Failed to Collect Gauge Configuration	Connection made and commands sent, but the data returned did not validate.
Gauge Update Failed Site Setup	Connection made and commands sent, but the setup information did not validate.
System Reset Failed	Reset command issue, but gauge did not respond.
UOW Cancelled	Individual polling task has been cancelled.
UOW Completed	Polling task successfully gathered data.
UOW Enqueue By Bulk Upload	List of sites have been inserted by bulk upload and have begun to process.
UOW Enqueue By On Demand Poll	The "Poll Now" event has been initialized.
UOW Enqueue By Query Gauge	Administrator has inserted site and initialized query of the site.
UOW Enqueue By Scheduler	The polling set has been executed through a set schedule.
UOW Enqueue By Site Setup Operator	The operator configuration has been initialized.
UOW Expired	Polling task has exceeded its max age limit for a unit of work. In Global Settings, default is set at 10 days.
UOW Failed After Retries	Polling task has failed due to exceeding max service attempts (default at 3 attempts).
UOW Failed Command Not Accepted	Polling command not recognized by gauge.
UOW Failed Database Failure	Failed to write or update data into database.
UOW Failed Invalid Check Sum	Integrity of data cannot be validated.
UOW Failed Invalid Response	Invalid data from gauge (i.e. connecting at a different speed/rate)
UOW Preempted	Task with higher priority placed in front of polling task.
UOW Replaced	Identical polling task replaced and put at higher priority than original polling task.
UOW Reprioritized	Polling task set to a different priority level.
UOW Requested	Polling queue service requested task.

5.10 ACCESS USERS

To view a list of current users, the User must select the “Users” link located under the “Security Settings” tab. The details and contact of each user will appear in a list format. The options to add and edit users will also be available.



The screenshot displays the VEEDER-ROOT web interface. The top navigation bar includes the logo and user information (User: Administrator, Change password, Logout, Help). The main menu on the left shows 'Security Settings' expanded, with 'Users' selected. The 'Users' table lists the following data:


Name	User Name	Email	Role	Status	Edit
DIYAdmin DIYAdmin	DIYAdmin	email@email.com	Admin	Enabled	
DIY Monitor	DIYMonitor		Monitor	Enabled	
DIY Operator	DIYOperator		Operator	Enabled	
DIYVapor	DIYVapor		Regulator	Enabled	
piyushd piyush	piyushd	piyushd@cybage.com	Monitor	Enabled	

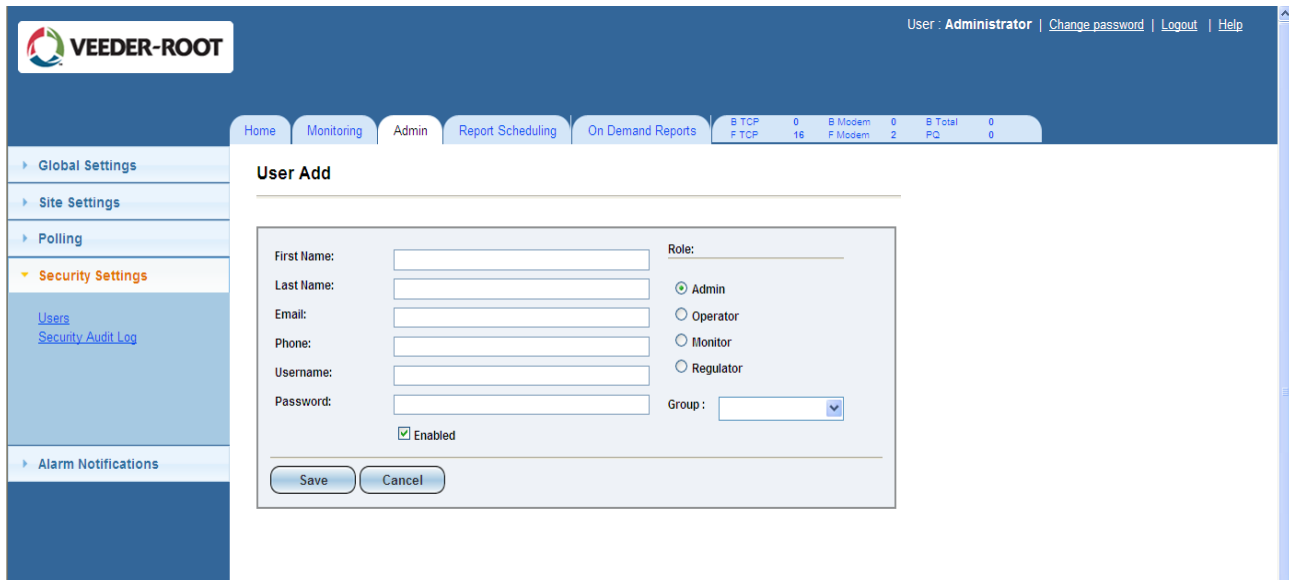
Figure 38. Users

5.10.1 ADD A NEW USER

To add a new user, simply select the “Add New” button located in the top right hand corner of the page. The User will be directed to a page with data entry fields to fill out.

The User should check the “Enabled” box if the user is enabled.

The User must hit the “Save” button in order to successfully store the new data.



The screenshot shows the 'User Add' form in the VEEDER-ROOT application. The form is located in the center of the screen, with a sidebar on the left and a top navigation bar. The sidebar contains links for Global Settings, Site Settings, Polling, Security Settings (highlighted), Users, Security Audit Log, and Alarm Notifications. The top navigation bar includes links for Home, Monitoring, Admin, Report Scheduling, and On Demand Reports, along with a status bar showing various metrics. The 'User Add' form itself has the following fields and options:

- First Name:** Text input field
- Last Name:** Text input field
- Email:** Text input field
- Phone:** Text input field
- Username:** Text input field
- Password:** Text input field
- Role:** Radio button selection for Admin, Operator, Monitor, and Regulator. The 'Admin' role is selected.
- Group:** Dropdown menu
- Enabled:** Checkmark box, currently checked.
- Buttons:** 'Save' and 'Cancel' buttons at the bottom.

Figure 39. Add/Edit Users

5.10.2 EDIT AN EXISTING USER

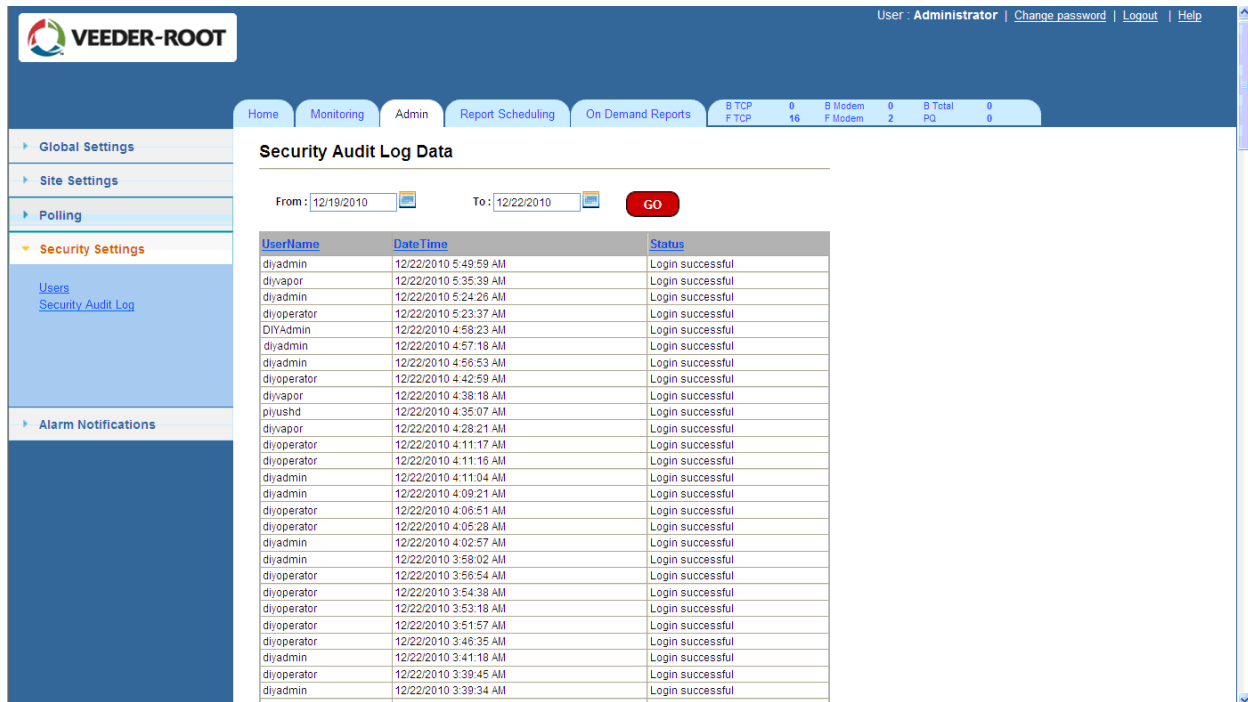
To edit an existing user, simply select the edit link (Pencil) of the corresponding user. The User will be directed to a page with data entry fields to edit. The entry fields should have data in them because it is an existing user.

Once the User is done editing, select the “Save” button in order to successfully store the new data.

5.11 ACCESS SECURITY AUDIT LOG

To view data from the security audit log, the User must select the “Security Audit Log” link located under the “Security Settings” tab. The User will be prompted to select a:

- Date range (defaulted)

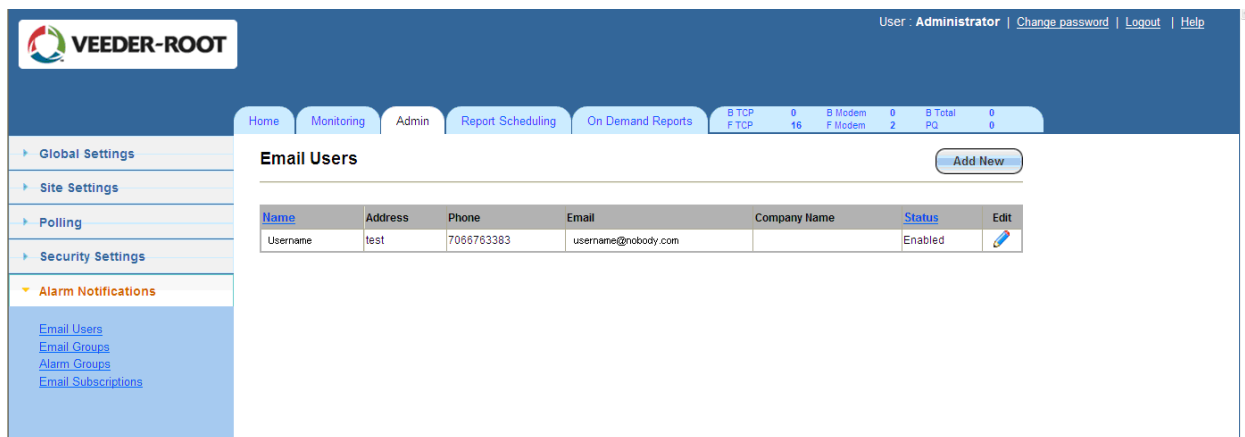


Username	Date Time	Status
diyadmin	12/22/2010 5:49:59 AM	Login successful
diyvapor	12/22/2010 5:35:39 AM	Login successful
diyadmin	12/22/2010 5:24:26 AM	Login successful
diyoperator	12/22/2010 5:23:37 AM	Login successful
DIYAdmin	12/22/2010 4:58:23 AM	Login successful
diyadmin	12/22/2010 4:57:18 AM	Login successful
diyadmin	12/22/2010 4:56:53 AM	Login successful
diyoperator	12/22/2010 4:42:59 AM	Login successful
diyvapor	12/22/2010 4:38:18 AM	Login successful
piyushd	12/22/2010 4:35:07 AM	Login successful
diyvapor	12/22/2010 4:28:21 AM	Login successful
diyoperator	12/22/2010 4:11:17 AM	Login successful
diyoperator	12/22/2010 4:11:16 AM	Login successful
diyadmin	12/22/2010 4:11:04 AM	Login successful
diyadmin	12/22/2010 4:09:21 AM	Login successful
diyoperator	12/22/2010 4:06:51 AM	Login successful
diyoperator	12/22/2010 4:05:28 AM	Login successful
diyadmin	12/22/2010 4:02:57 AM	Login successful
diyadmin	12/22/2010 3:58:02 AM	Login successful
diyoperator	12/22/2010 3:56:54 AM	Login successful
diyoperator	12/22/2010 3:54:38 AM	Login successful
diyoperator	12/22/2010 3:53:18 AM	Login successful
diyoperator	12/22/2010 3:51:57 AM	Login successful
diyoperator	12/22/2010 3:48:35 AM	Login successful
diyadmin	12/22/2010 3:41:18 AM	Login successful
diyoperator	12/22/2010 3:39:45 AM	Login successful
diyadmin	12/22/2010 3:39:34 AM	Login successful

Figure 40. Security Audit Log

5.12 ACCESS EMAIL USERS

To view the list of Email Users, the User must select the “Email Users” link located under the “Alarm Notifications” tab. A list of existing Email Users along with their contact information will display for examination. The options to add and edit Email Users will also be available.




Name	Address	Phone	Email	Company Name	Status	Edit
Username	test	7060763383	username@nobody.com		Enabled	

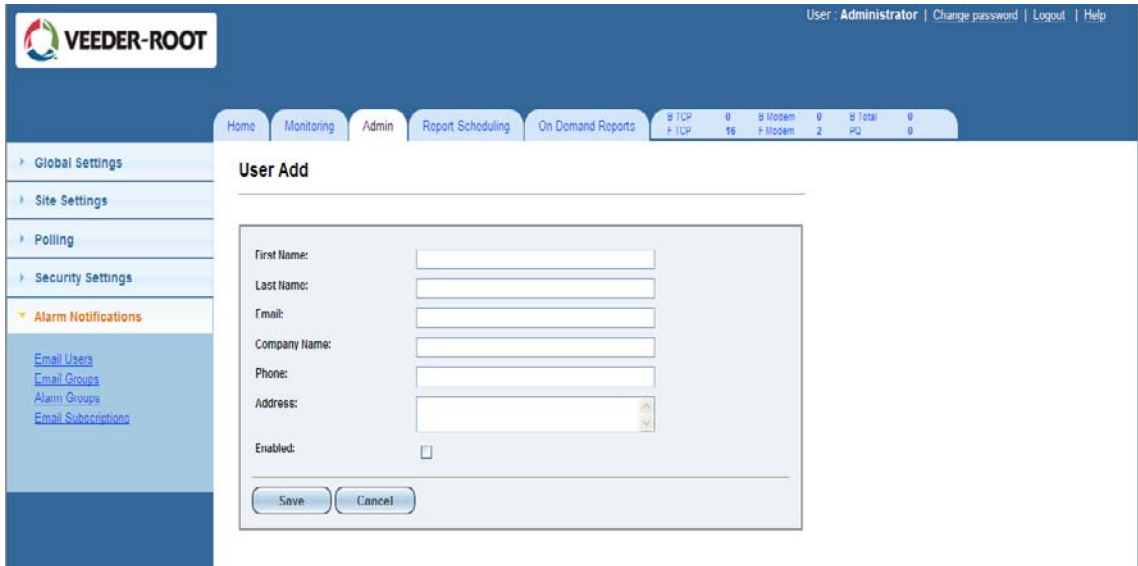
Figure 41. Email Users

5.12.1 ADD A NEW EMAIL USER

To add a new Email User, simply select the “Add New” button located at the top right hand corner of the page. The User will be directed to a page with data entry fields to fill out.

The User should check the “Enabled” box if the Email User is enabled.

The User must hit the “Save” button in order to successfully store the new data.



The screenshot shows the VEEDER-ROOT web application interface. At the top, there is a header with the logo and user information: "User: Administrator | Change password | Logout | Help". Below the header is a navigation bar with tabs: Home, Monitoring, Admin, Report Scheduling, and On Demand Reports. The Admin tab is selected. On the left side, there is a sidebar menu with categories: Global Settings, Site Settings, Polling, Security Settings, and Alarm Notifications. Under Alarm Notifications, there are links for Email Users, Email Groups, Alarm Groups, and Email Subscriptions. The main content area displays the "User Add" form. The form has the following fields: First Name, Last Name, Email, Company Name, Phone, Address, and an Enabled checkbox. At the bottom of the form are "Save" and "Cancel" buttons.

Figure 42. Add/Edit Email User

5.12.2 EDIT AN EXISTING EMAIL USER

To edit an existing user, simply select the edit link (Pencil) of the corresponding Email User. The User will be directed to a page with data entry fields to edit. The entry fields should have data in them because it is an existing user.

Once the User is done editing, select the “Save” button in order to successfully store the new data.

5.13 ACCESS EMAIL GROUPS

To view Email Groups, the User must select the “Email Groups” link located under the “Alarm Notifications” tab. A list of existing Email Groups along with the options to add, edit, and delete Email Groups will be available.

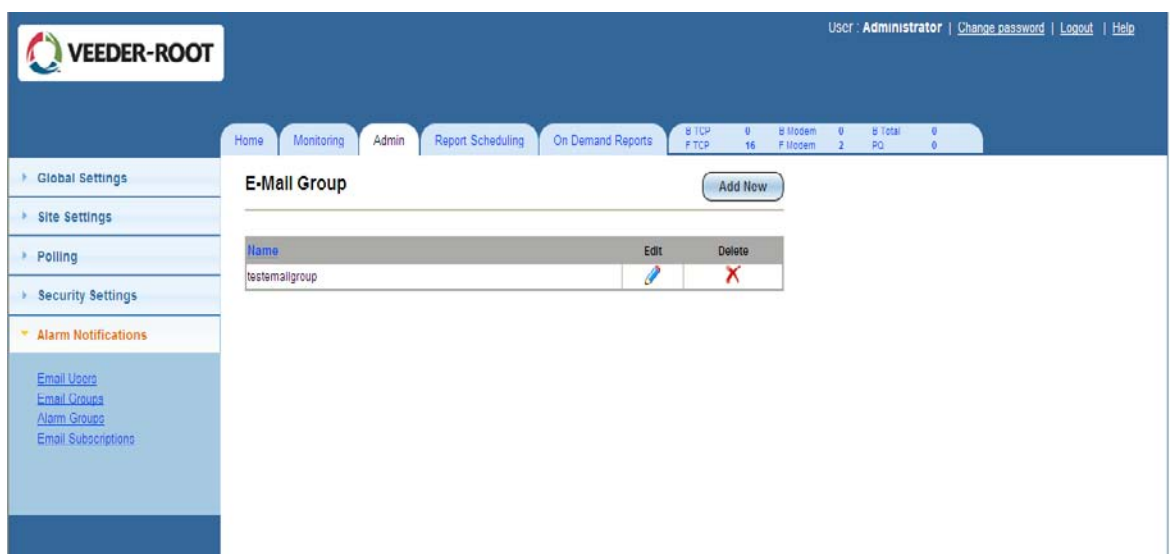


Figure 43. Email Groups

5.13.1 ADD A NEW EMAIL GROUP

To add a new email group, simply select the “Add New” button located at the top right hand corner of the page. The User will be directed to a page with data entry fields to fill out.

The User must name the group, select from the Available Users list, move them over to the Assigned Users list, and select the appropriate users from the Assigned Users list.

The User must hit the “Save” button in order to successfully store the new data.

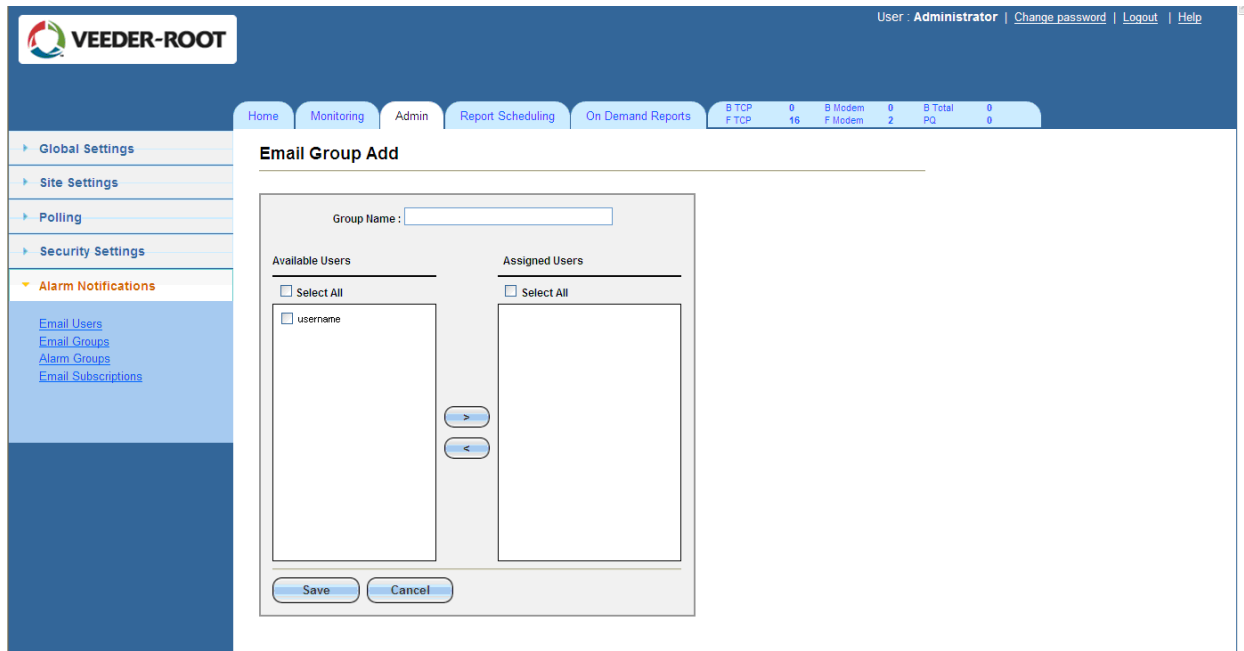


Figure 44. Add/Edit Email Groups

5.13.2 EDIT AN EXISTING EMAIL GROUP

To edit an existing email group, simply select the edit link (Pencil) of the corresponding email group. The User will be directed to a page with data entry fields to edit. The entry fields should have data in them because it is an existing group.

Once the User is done editing, select the “Save” button in order to successfully store the new data.

5.13.3 DELETE AN EMAIL GROUP

To delete an email group, simply select the delete link (red “X”) of the corresponding group and confirm deletion.

5.14 ACCESS ALARM GROUPS

To view alarm groups, the User must select the “Alarm Groups” link located under the “Alarm Notifications” tab. A list of existing Alarm Groups along with the options to add, edit, and delete Alarm Groups will be available.

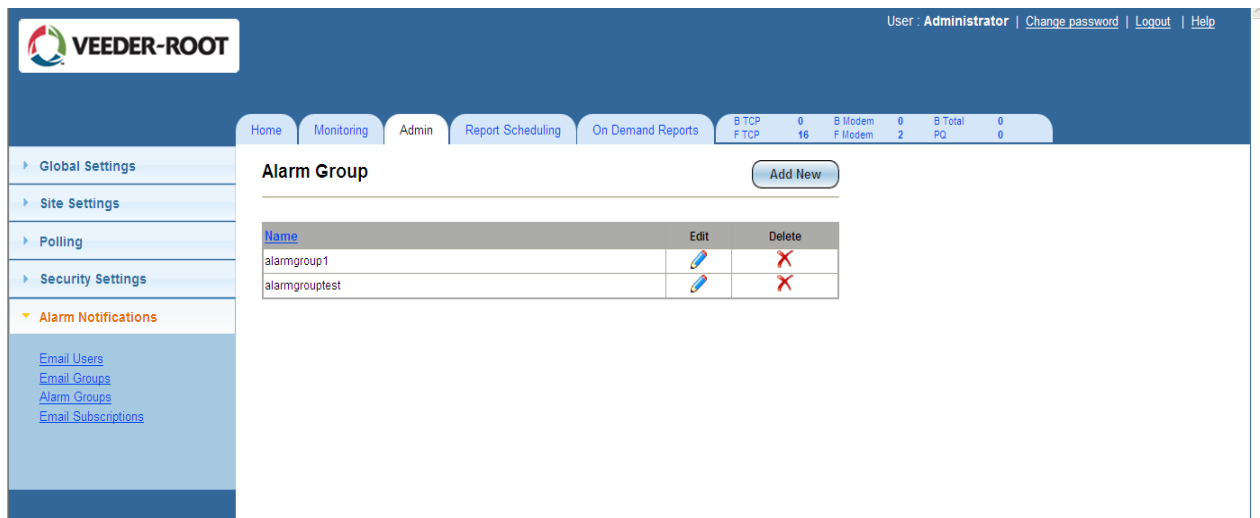


Figure 45. Alarm Groups

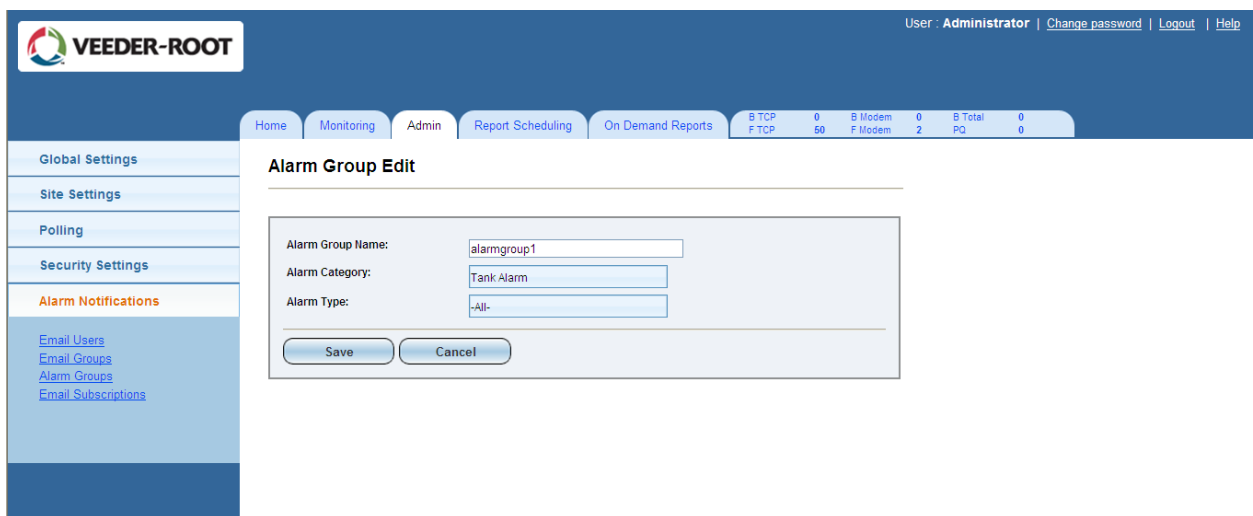


Figure 46. Add/Edit Alarm Groups

5.14.1 ADD A NEW ALARM GROUP

To add a new alarm group, simply select the “Add New” button located at the top right hand corner of the page. The User will be directed to a page with data entry fields to fill out.

To choose an Alarm Category, simply click the corresponding box, and a dropdown list with checkboxes will appear. The user has the option to select more than one Alarm Category. Any selections made for Alarm Category will automatically populate the Alarm Type dropdown list.

To choose an Alarm Type, simply click on the corresponding box, and a dropdown list with checkboxes will appear. The user has the option to select more than one Alarm Type.

The User must hit the “Save” button in order to successfully store the new data.

5.14.2 EDIT AN EXISTING ALARM GROUP

To edit an existing alarm group, simply select the edit link (Pencil) of the corresponding alarm group. The User will be directed to a page with data entry fields to edit. The entry fields should have data in them because it is an existing group.

Once the User is done editing, select the “Save” button in order to successfully store the new data.

5.14.3 DELETE AN ALARM GROUP

To delete an alarm group, simply select the delete link (red “X”) of the corresponding group and confirm deletion.

5.15 ACCESS EMAIL SUBSCRIPTIONS

To view the Email Subscriptions, the User must select the “Email Subscriptions” link located under the “Alarm Notifications” tab. A list of existing Email Subscriptions along with the options to add and edit subscriptions will be available.

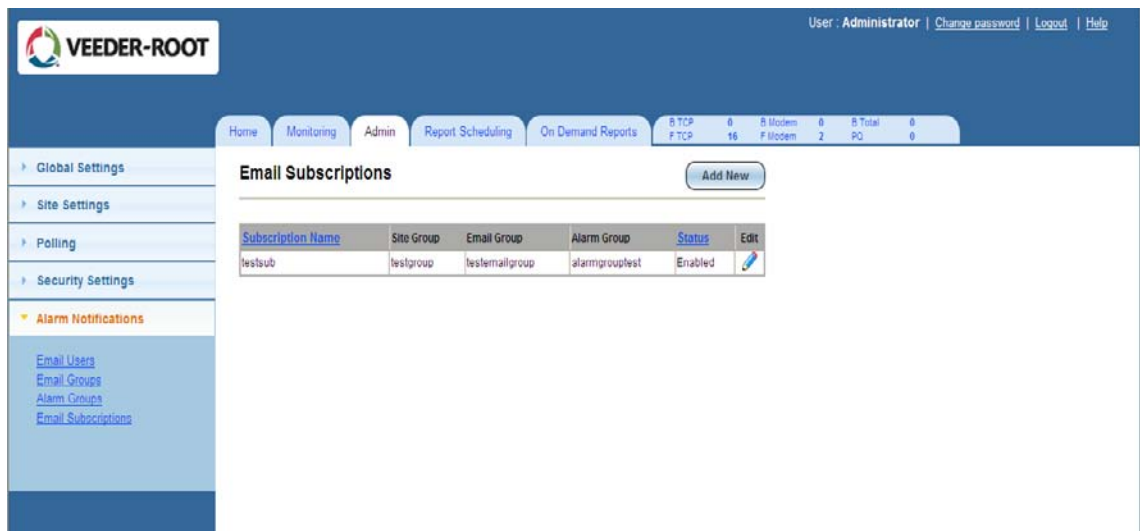


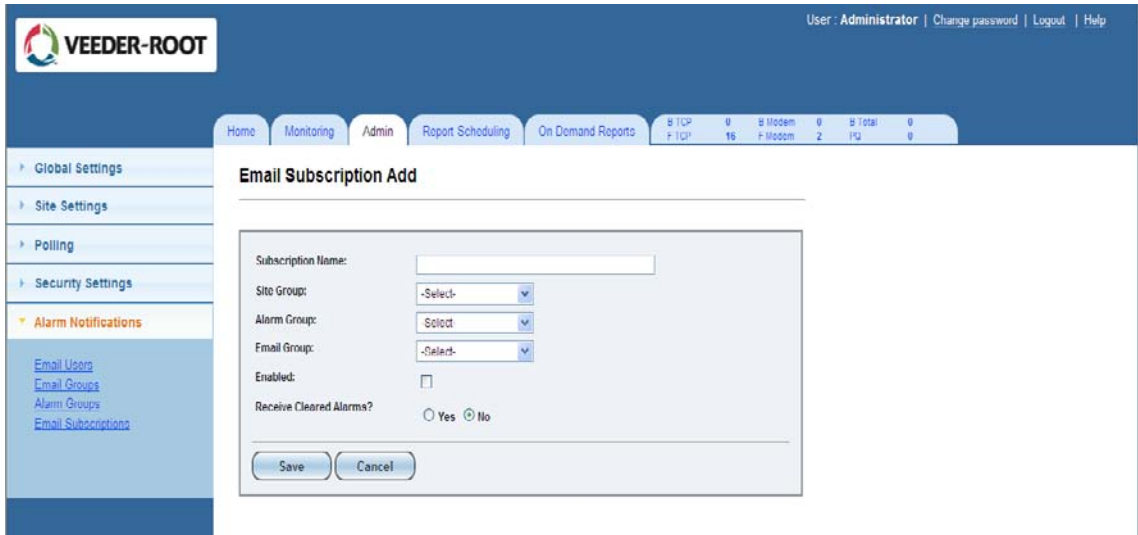
Figure 47. Email Subscriptions

5.15.1 ADD A NEW EMAIL SUBSCRIPTION

To add a new Email Subscription, simply select the “Add New” button located at the top right hand corner of the page. The User will be directed to a page with data entry fields to fill out.

The User should check the “Enabled” box if the Email Subscription is enabled.

The User must hit the “Save” button in order to successfully store the new data.



The screenshot displays the VEEDER-ROOT web application interface. At the top, the user is logged in as 'Administrator' with links for 'Change password', 'Logout', and 'Help'. The main navigation bar includes 'Home', 'Monitoring', 'Admin', 'Report Scheduling', and 'On Demand Reports'. A sidebar on the left lists settings categories: 'Global Settings', 'Site Settings', 'Polling', 'Security Settings', and 'Alarm Notifications' (which is expanded to show 'Email Users', 'Email Groups', 'Alarm Groups', and 'Email Subscriptions'). The central area shows the 'Email Subscription Add' form with the following fields: 'Subscription Name' (text input), 'Site Group' (dropdown menu), 'Alarm Group' (dropdown menu), 'Email Group' (dropdown menu), 'Enabled' (checkbox), and 'Receive Cleared Alarms?' (radio buttons for 'Yes' and 'No'). 'Save' and 'Cancel' buttons are at the bottom of the form.

Figure 48. Add/Edit Email Subscriptions

5.15.2 EDIT AN EXISTING EMAIL SUBSCRIPTION

To edit an existing email subscription, simply select the edit link (Pencil) of the corresponding subscription. The User will be directed to a page with data entry fields to edit. The entry fields should have data in them because it is an existing subscription.

Once the User is done editing, select the “Save” button in order to successfully store the new data.

6. REPORT SCHEDULING

This page allows the User to render reports per specification. The types of reports are selectable from the provided drop down menu:

- Reports

The User must hit the “Schedule” button in order to successfully schedule a designated report.

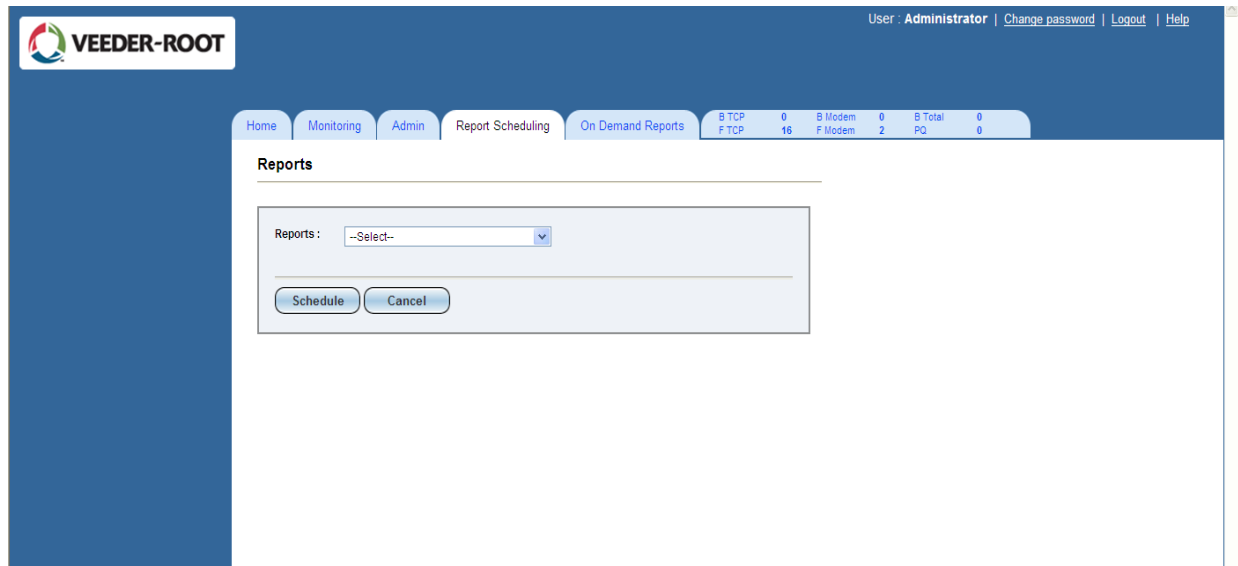


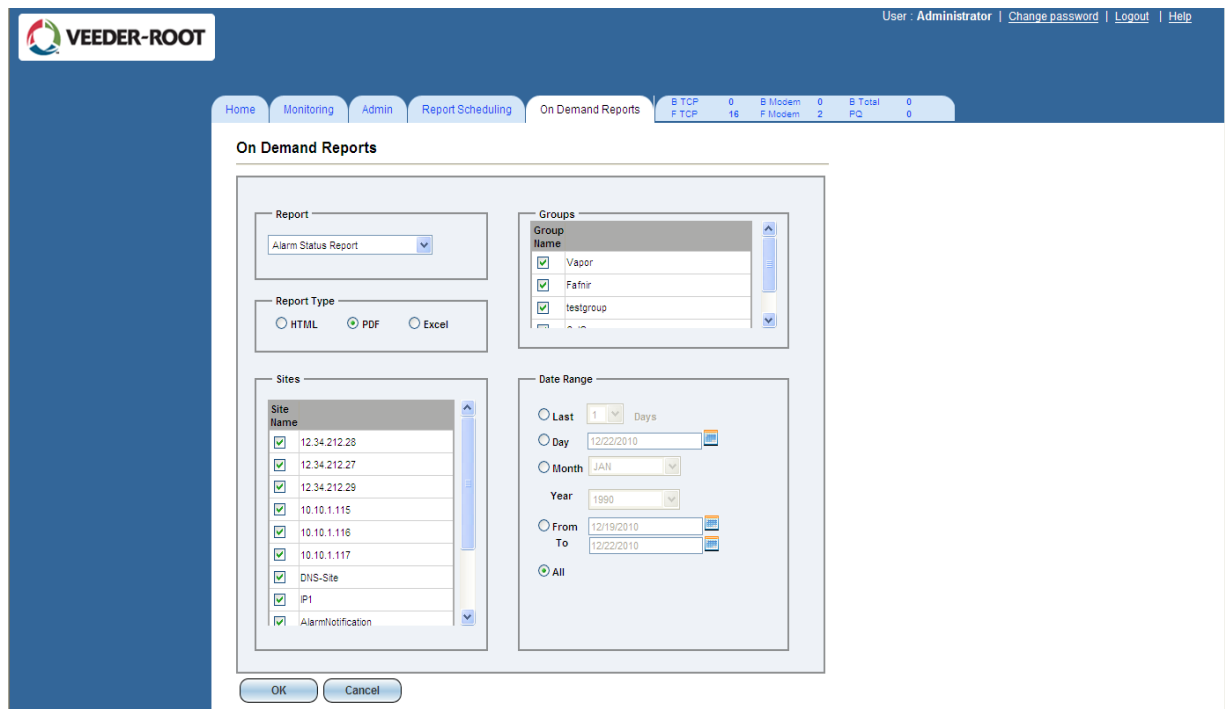
Figure 49. Report Scheduling Page

7. ON DEMAND REPORTS

Every user has the ability to perform On-Demand reports which can be defined by Report Type as defined in the InformNET specification document along with filters of Group/Site selection and date range criteria.

The User may edit the following data entry fields accordingly.

The User must hit the “OK” button in order to successfully store the new data.



The screenshot displays the 'On Demand Reports' interface. At the top, the 'VEEDER-ROOT' logo is on the left, and user information 'User: Administrator' with links for 'Change password', 'Logout', and 'Help' is on the right. A navigation bar contains 'Home', 'Monitoring', 'Admin', 'Report Scheduling', and 'On Demand Reports'. A status bar shows metrics: B TCP (0), F TCP (16), B Modem (0), F Modem (2), B Total (0), and PQ (0). The main form, titled 'On Demand Reports', contains several sections: 'Report' with a dropdown set to 'Alarm Status Report'; 'Report Type' with radio buttons for 'HTML', 'PDF' (selected), and 'Excel'; 'Groups' with a list box containing 'Vapor', 'Fafnir', and 'testgroup' (all checked); 'Sites' with a list box containing '12.34.212.28', '12.34.212.27', '12.34.212.29', '10.10.1.115', '10.10.1.116', '10.10.1.117', 'DNS-Site', 'IP1', and 'AlarmNotification' (all checked); and 'Date Range' with radio buttons for 'Last 1 Days', 'Day 12/22/2010', 'Month JAN', 'Year 1990', 'From 12/19/2010 To 12/22/2010', and 'All' (selected). 'OK' and 'Cancel' buttons are at the bottom.

Figure 50. On Demand Reports Page

8. POLLING DASHBOARD

This page displays data for Resource Information, Busy Resources Information, and Polling Queue Information. Selecting the last tab will allow the User to access the Polling Dashboard as well as the listed information.

The User may hit the “Refresh” button to update the dashboard for the most current information.

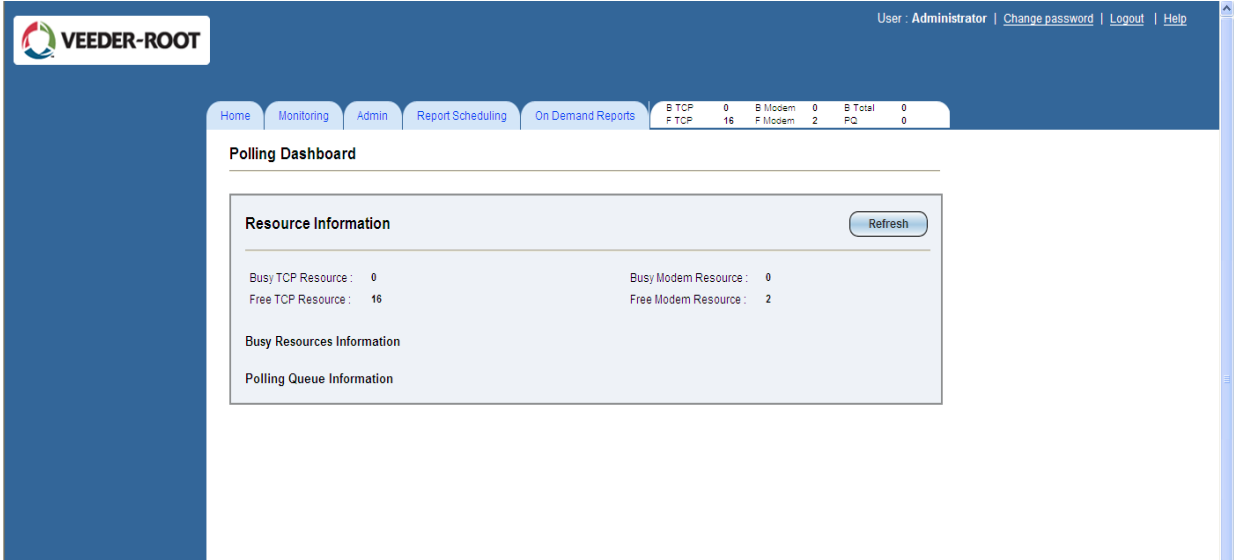


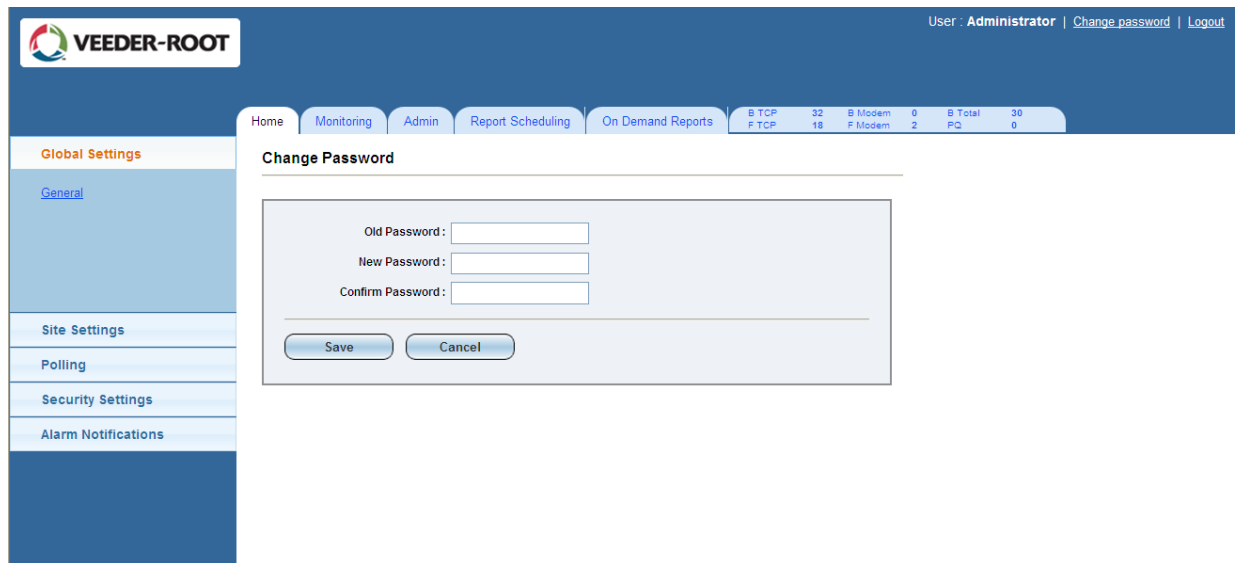
Figure 51. Polling Dashboard Page

9. CHANGE PASSWORD

To change the User password, the User must click on the “Change Password” link located at the upper right hand corner of the page.

This link can be accessed no matter what tab or page the User is in.

The User must hit the “Save” button in order to successfully store the new password.



B TCP	32	B Modem	0	B Total	30
F TCP	18	F Modem	2	PQ	0

Global Settings

- General
- Site Settings
- Polling
- Security Settings
- Alarm Notifications

Change Password








Old Password:

New Password:

Confirm Password:

Figure 52. Change Password Page

10. GENERAL USAGE OF WIDGETS AND DATA ENTRY

Type	Function	Icon
Calendar	This feature is a link that will generate a pop up window that displays a calendar with a monthly view when clicked on. The user may navigate between months and select a specific date by using the provided dropdown menus at the top. User must click on a specific date in order for the date to populate automatically.	
Sorter	This feature is a link in which specific headers are highlighted in blue and underlined. Clicking on this link will allow the user to organize the corresponding list in alphabetical, numerical, and/or reverse order.	Test
Dropdown w/checkboxes	This feature allows the user to choose more than one item in a dropdown menu. There are checkboxes available next to each item within the dropdown, and the user simply has to check the box of each desired item.	
Sliding Bar	This feature provides an automatic numerical value depending on where the slider is located. The user may click on the slider and drag it back and forth to input the desired numerical value. The corresponding text box will automatically populate once a value is selected.	
Cancel Icon	This feature is provided in the Priority Queue page. If the user clicks on this icon, the corresponding task in the queue will be cancelled.	
Tank Icons (Home page)	This feature is a link that allows the user to view a generalized summary of a tank and/or navigate to the specified tanks page. If the user moves the cursor over a specific tank, a pop up window that displays tank details will generate automatically. If the user wishes to view the tanks page, they simply have to click on desired tank icon.	 
Pencil Icon	This feature is a link in which the user will be able to open up and edit a particular item, depending on what page they are in. Clicking on this link will navigate the user to a page where data entry fields may be edited accordingly.	
'X' Icon	This feature is a link that allows the user to delete a particular item. Clicking on this link will generate a confirmation message in which the user must confirm the deletion.	
Green Circle with Check	This feature is an icon that will appear in the testing pages under the column titled "Results". This icon represents the particular test has passed.	
Red Circle with 'X'	This feature is an icon that will appear in the testing pages under the column titled "Results". This icon represents the particular test has failed.	