User Manual

The Essential Guide for

iNet Control and iNet Control+

Users

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INDUSTRIAL
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https://www.indsci.com/en/inet-control

Contents

Tables and Figures

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1

General Information

Overview

System Requirements

Help and Support

Overview

iNet® Control is gas detection management software that pairs with Industrial Scientific instruments to provide a global dashboard across a company's operations.

iNet Control provides safety managers with operations-specific details through easy-to-read summary reports identifying when, where, and for which user alarms occurred. Customizable graphs, historical filtering, email summary reports, customizable settings and notifications, and an easy-to-use interface add tremendous value to the entire gas detection program.

In addition, iNet Control provides full data log records showing which hazards workers were exposed to and tailored email summary reports based on the data that matters most.
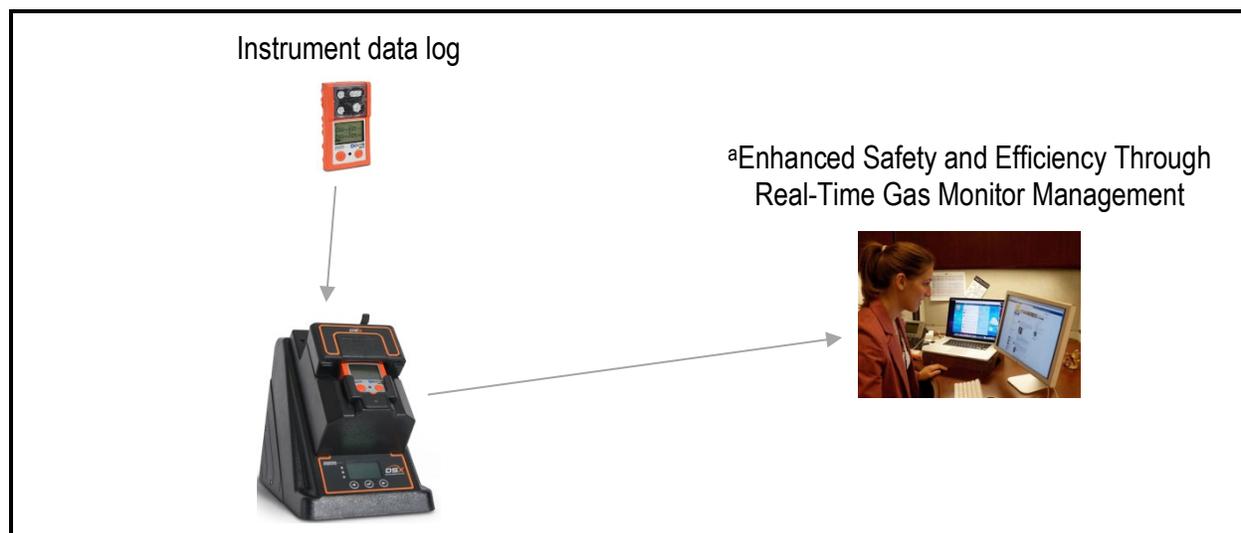
Figure 1.1 iNet Control overview

[a]iNet Control allows for the management of equipment settings and maintenance schedules, including tasks such as calibration and bump tests. This feature ensures that critical maintenance procedures are scheduled and executed efficiently, contributing to the reliability and accuracy of gas detection equipment.

iNet Now functionality, integrated within iNet Control, enables users to monitor equipment in real-time on a map interface. Unlike data sourced from docking station uploads, iNet Now provides live updates and location tracking of equipment, enhancing operational oversight and safety management.

Key Features

Streamline Gas Detection

Streamline gas detection by consolidating equipment data into a centralized dashboard eliminates manual data entry, minimizes errors, and enhances safety and efficiency.

Elevating Worker Safety

Safeguard worker safety with real-time gas detection data analytics. Track gas levels, identify hazards, and proactively address risks to prevent incidents and protect your workforce.

Data-Driven Optimization

Effectively optimize operations and drive improvements by opportunely providing relevant data to the appropriate personnel. This data-driven approach empowers decision-makers to identify areas for enhancement and implement targeted solutions.

Proactive Maintenance

Prevent equipment failures and optimize your fleet with predictive maintenance. By analyzing data, you can identify problems early on and schedule repairs before they occur, reducing downtime, increasing asset lifespan, and improving safety.

Compliance

Maintain compliance with comprehensive documentation for bump test reports, calibration trends, and printed certificates. Seamlessly access and share documentation to streamline auditing processes and demonstrate regulatory adherence.

Help and Support

You can visit iNet Control online Product Training Videos (Visit: https://www.indsci.com/en/product-resources/product-training-videos/inet-control) or register for iNet Control User Training (Visit: https://www.indsci.com/en/training-classes/inet-control-user-training) class if you need assistance in using the software.

If you encounter any difficulties while using the software, contact your local iNet fulfillment center. (Visit https://www.indsci.com/en/contact to find contact information for your local fulfillment center.)

2

Getting Started

Accessing the Web Application

New User Registration

Accessing the Web Application

The web application can be accessed using a web browser on any computer or device with an internet connection.

Logging into iNet Control

For accessing iNet Control URL go to Appendix – F. Clicking the links will redirect you to respective regional iNet Control login page.

Note: iNet Control login page does not work for single sign-on (SSO) logins.

Login Credentials

Under User ID, enter the user name issued to you by Industrial Scientific; this can be obtained from the new user registration email (see Figure 2.2 User registration email) from Industrial Scientific Support.

In the Password field, enter the password; leaving the box empty or entering the wrong password will result in an error message.

Forgot user ID

If you have forgotten your User ID, click on the forgot your *User ID* link on the login page. You will be redirected to the *Forgot Your User ID?* page, where you will be asked to enter your registered email address. Upon entering your email address, the system will retrieve the User ID associated with that email and send it to you via email.

Forgot your password

If you have forgotten your password, simply click the *Forgot your Password* link on the login page. You will be redirected to a page where you can enter your User ID. After that, you will be prompted to answer a security question to verify your identity. Once confirmed, you will receive an email with a link to reset your password.

Figure 2.1 Accessing the web application.

New User Registration

Receiving Registration Email

When an Administrator creates a User ID for a new user, an email notification containing a registration link is sent to the user's email address.
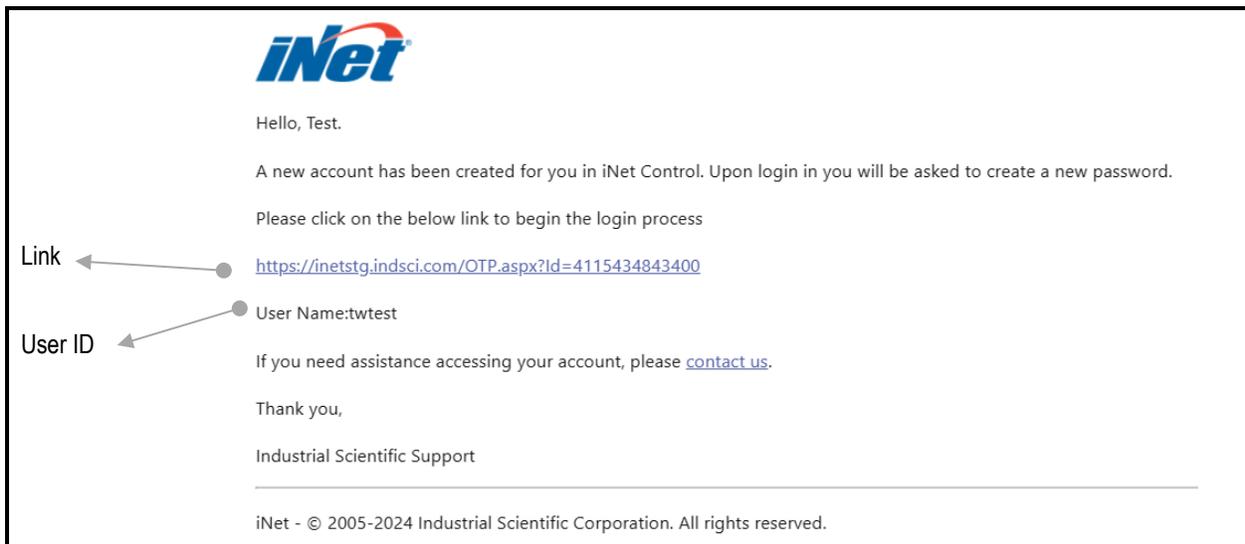
Figure 2.2 User registration email

Completing Registration Details

Upon clicking the registration link in the email, the user is directed to the registration page. The user is prompted to enter their desired username, create a password, confirm the password, and set a security question with an answer.

User ID

New Password

Since this is your first time logging in, please create a new password, and enter a security question with corresponding answer

User ID:
dwtest77

New Password:

Confirm New Password

Confirm New Password:

Security Question

Security Question:

Security Answer

Security Answer:

Login button

LOG IN

Figure 2.3 Registration details

Note: Employing outdated browsers may result in performance degradation or rendering errors.

Finalizing Registration

After completing all the required information, the user clicks the *Login* button to finalize the registration process. Successful registration allows users to log in to the system using their newly created username and password. Once you log in, read and accept the account terms and conditions.

Account Terms and Conditions

Some text that the customer provided to us.

☑ I agree to the terms and conditions

Continue

❌ Please read the terms and conditions before using iNet Control

Figure 2.4 Account terms and conditions

Home

Overview

Notifications

Home page Elements

Overview

When users log in, or click on home (🏠) icon, they are taken to iNet Control home page, which is also referred as the *landing page*. It is important to note that *home page* is consistently used throughout this document.
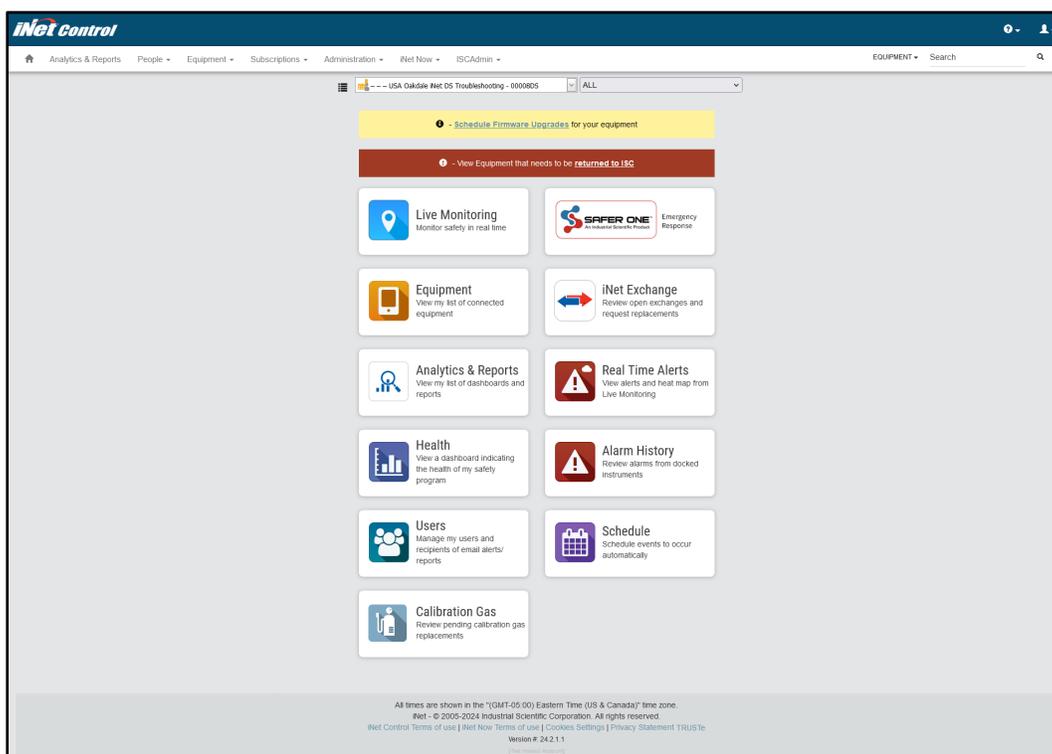
Figure 3.1 iNet Control home page

Multiple elements on iNet Control are carried through different pages. Refer back to this table to help you sort, filter, and otherwise arrange page content as you work.

Header
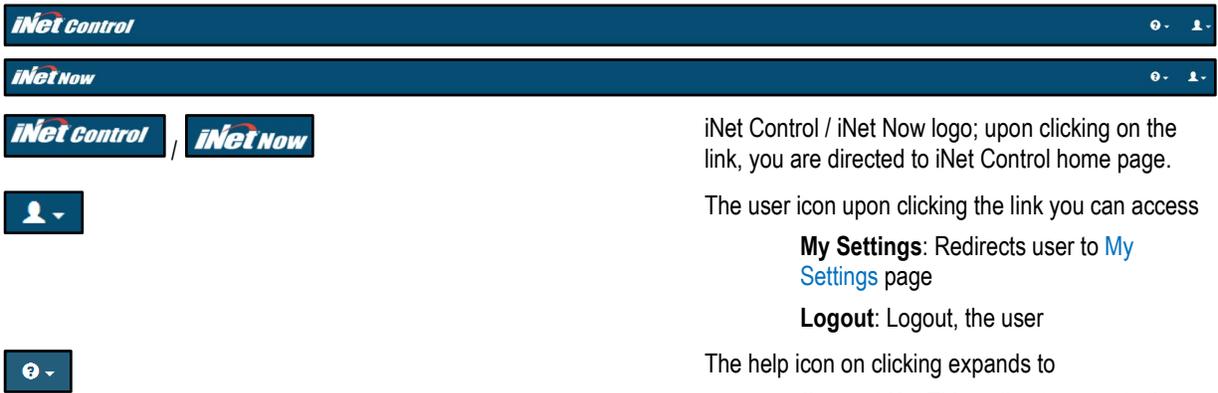
/	iNet Control / iNet Now logo; upon clicking on the link, you are directed to iNet Control home page.
	The user icon upon clicking the link you can access
	My Settings: Redirects user to My Settings page
	Logout: Logout, the user
	The help icon on clicking expands to
	Contact Us: This redirects users to the Industrial Scientific Contact Us page.
	System Message: Redirects the user to the 3rd part tool that displays System Messages page.
	iNet Training: Redirects users to iNet Control online training videos on the Industrial Scientific website.
	Free Online Course: Clicking this redirects user to the Industrial Scientific website's iNet Control training course registration page.
	Release Notes: Clicking this redirects the user to the Release Notes page for iNet Control.
	iNet Now: Clicking this opens up the Start-up Guide for iNet Now.

Search Bar
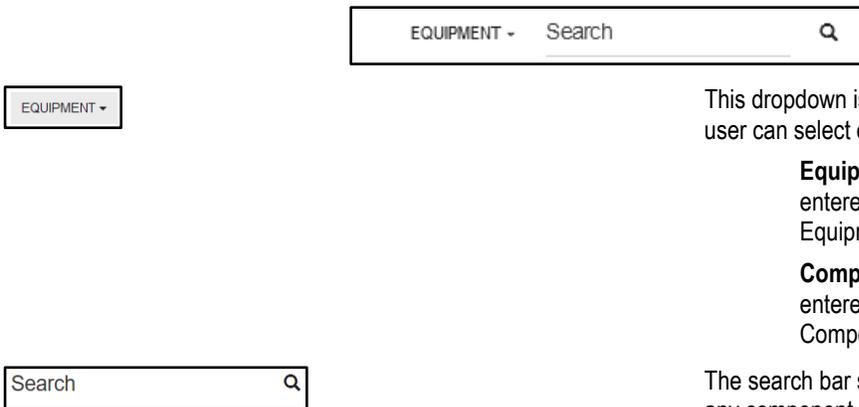
	This dropdown is used to refine the search bar; the user can select either from
	Equipment: If multiple items match the entered text, you will be directed to the Equipment Search Results.
	Component: If multiple items match the entered text, you will be directed to the Component Search Results.
	The search bar searches iNet Control application for any component or equipment associated with the account.

Account Bar

| | Clicking this gives you the account map. Account Map tells you the account you are currently logged into and shows the list of the associated accounts. |

ABC (Master) - 12345

The user can select a different Account or Account group from this.

> **Account Group:** The account group holds combined data from all linked accounts, but not every page is accessible within the context of a specific account group.
> **Account:** You can see the details regarding the selected account over here.

ALL

Users can filter equipment groups from this option.

Export: Export the grid to Excel.

From: 2/20/2024 to: 3/21/2024 Grid records per page: 30 ✔ APPLY

Filtering: Initially, the grid remains unfiltered by default, except for certain predefined options like the last 90 days or specific data sources. However, once a user begins applying filters to the grid, those filters will remain active for that user.

Columns Chooser: You can use the column chooser to modify the columns displayed in the grid. Some columns may be hidden by default but can be added to the grid by dragging them from the column chooser.

| Type | Last Upload Time Group ▼ | Last Upload Time |

Drag a column header here to group by that column

| Serial Number | Category ▼ | Type ↑▼ |

Column Customization: The user can rearrange columns by clicking and holding the column header and moving it to the desired location.

To group the list by a specific column you can drag and drop the column at the specified place and the whole list will be grouped by the selected column

Footer

iNet Control Terms of use

Clicking this redirects the user to iNet Control terms of use.

iNet Now Terms of use

Clicking this redirects the user to iNet Now terms of use.

Cookies Settings

When you visit any website, it may store or retrieve information on your browser, mostly in the form of cookies. This information might be about you, your

preferences, or your device and is mostly used to make the site work as you expect it to. Clicking the Cookies Setting allows you to configure your cookies in the popup window below.
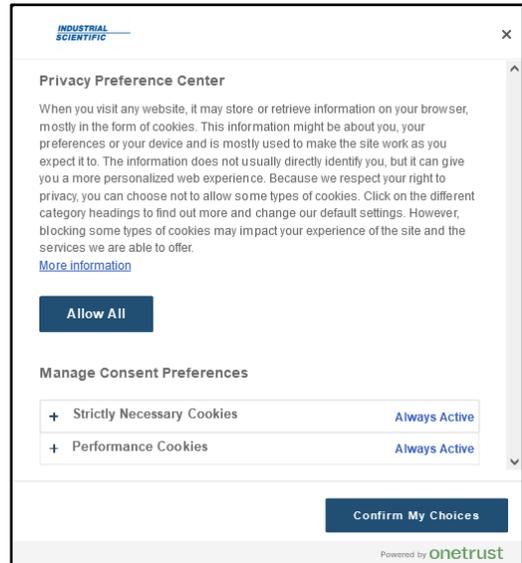
Privacy Statement

Clicking this redirects the user to the Industrial Scientific privacy statement.

Figure 3.2 Web elements and description

Notifications

The notifications are displayed on iNet Control home page. These are for the issues that require urgent attention. The notifications and their descriptions are given in the table notification.

Notification	Description
❗ - View Equipment that needs to be returned to ISC	This message is displayed when a piece of equipment is due to be returned to Industrial Scientific.
❗ - Schedule Firmware Upgrades for your equipment	To ensure optimal performance of your equipment, iNet Control periodically checks for any unacknowledged firmware available alerts in your account. These alerts are typically generated 30 days after new firmware is released.

Figure 3.3 Notifications and description

Home Page Buttons

iNet Control home page contains different buttons that redirect the user to the different pages. Button options can differ based on the customer and their specific subscriptions.

Button	Description
Equipment View my list of connected equipment	**Equipment** Clicking on this button takes the user to the Equipment List. Here, the user can view the list of all the equipment.
Schedule Schedule events to occur automatically	**Schedule** Clicking on this button takes the user to the Event Schedule. Here, the user can schedule events so they reoccur automatically at the specified intervals.
Users Manage my users and recipients of email alerts/reports	**Users** Clicking on this button takes the user to the User Administration. Here, you can manage users and their permissions within iNet Control.
Alarm History Review alarms from docked instruments	**Alarm History** Clicking on this button Takes the user to the Alarm History. Here, you can review alarms from docked instruments.
Real Time Alerts View alerts from Live Monitoring	**Real Time Alerts** Clicking on this button takes users to the Real Time Alerts. Here, you can view alerts from Live Monitoring.
Health View a dashboard indicating the health of my safety program	**Health** Clicking on this button takes the user to the Classic Dashboard. Here, you can view a classic dashboard indicating the health of my safety program.
Live Monitoring Monitor safety in real time	**Live Monitoring** Clicking on this button takes the user to the Live Monitoring. Here, you can monitor safety in real time.
iNet Exchange Review open exchanges and request replacements	**iNet Exchange** Clicking on this button takes the user to iNet Exchange. Here, the user can review and request a replacement.
SAFER ONE An Industrial Scientific Product Emergency Response	**SAFER One** Clicking this redirects the user to the marketing page where users can learn about the SAFER One. SAFER One is the first real-time cloud-based emergency chemical response solution, allowing for collaboration of users across the entire organization, remote response, scenario, and user management within a single integrated, real-time platform.

Figure 3.4 Home page buttons

Note: This document does not cover all buttons as they may differ for each user and some may change over time without explanation.

My Settings

The My Settings page is used to set the logged-in user's preferences.

Figure 3.5 My settings

The fields of the page are explained in the table below.

Table 3.1 My settings fields

Field	Description
Language	The possible choices for language are English – US, English – UK, Spanish, German, French, Chinese, Portuguese - Brazil, Russian, Polish, Danish, Czech, Dutch, Swedish, Thai and Japanese.
Time zone	This feature enables you to specify the time zone for displaying timestamps while using iNet Control. You have the option to utilize the time zone associated with your account.
Startup Screen	This dropdown contains names of pages, which, when selected, will serve as the startup page for a user. The dropdown will have a Home Page, Dashboard (classic dashboard), iNet Now, Alarm History, Equipment List and Quick Assign, with the home page being the default.
Ok Button	The OK button saves any changes on this page. After saving, it redirects to the Person Summary page, and iNet Control is displayed in the selected language.
Cancel Button	The Cancel button instantly shows the Person Summary page, discarding any changes made on this page.

4

Analytics & Reports

Insights

Classic Dashboard

Advance Custom Reporting

Report History

Report Administration

Notes List

The user can use the analytics and reporting to access the reports and graphs for various alarms and alerts. It has different options under the analytics and reports tab, each displaying specific information. Users can access detailed reports by selecting a particular tab. These options are listed below:

- Insights
- Classic Dashboard
- Report Administration
- Report History
- Advance Custom Reporting
- Notes List

Insights

The Insight tab provides three selections. The three options are outlined below:

- Alarm Severity
- Calibration Compliance
- Bump Test Compliance
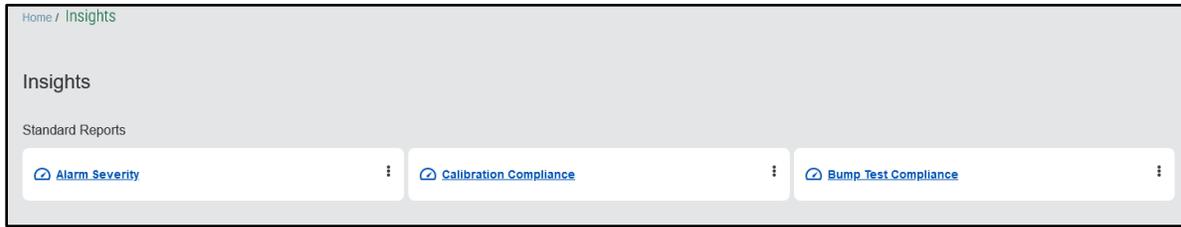
Figure 4.1 Insights

Feature buttons

The figure below explains the different types of feature buttons present on the Insights dashboard.

Button	Button Icon	Description
Drill Up		By clicking drill up, you can navigate back to higher levels of hierarchical data without adjusting the graph.
Drill Down		By clicking drill down, you can navigate to lower levels of hierarchical data without modifying the graph.
Focus Mode		Pressing the focus icon opens the graphs or tables on another page for improved viewing, and users can easily navigate back to the report by clicking on the *Back to report* item located in the upper left corner of the report.
More Options		Clicking More Options will reveal a list of features that users can adjust to customize how data is displayed in the report. Below are the available options. • **Export data:** This functionality allows you to save data into an Excel file • **Show as a table:** This option lets you present the data in a tabular format. • **Spotlight:** When activated, this feature highlights the selected box or area • **Sort Axis:** This functionality enables you to arrange data along a specific axis.
Clear section		This button lets users clear the selected filters.
Lowest Level of data		Clicking this expands the graph down one level in the hierarchy.
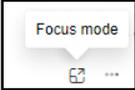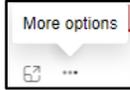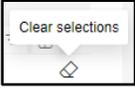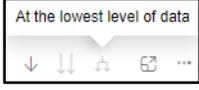
Figure 4.2 Feature buttons

Alarm Severity

The alarm severity button takes the user to the Alarms Dashboard, where users can select from different filters like date, account, gas type, and equipment as needed. The alarm data is visualized in multiple graphs.
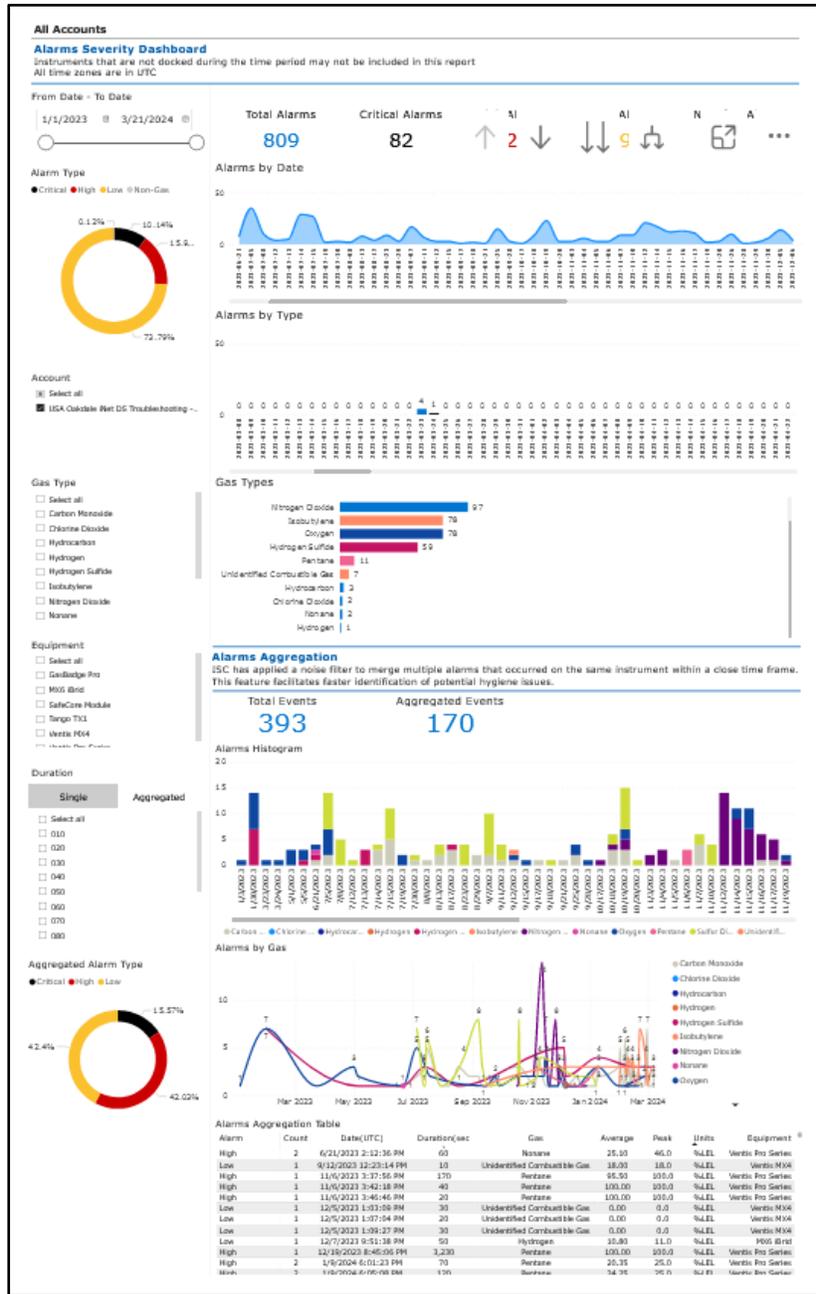
Figure 4.3 Alarm severity dashboard

Note: This dashboard may not reflect instruments not placed in the docking station during the specified timeframe.

Alarms Summary

In this section, you will find color-coded legends accompanying various alarms for easy identification along with their occurrence counts. You can access detailed reports by clicking on the figures, which present alarm information in table and graph formats. Below is a list of the alarm types included in this section.

- Total Alarms
- Critical Alarms

- High Alarms
- Low Alarms
- Non-Gas Alarms

Total Alarms	Critical Alarms	High Alarms	Low Alarms	Non Gas Alarms
93	30	6	57	0

Figure 4.4 Alarms summary

Filters

The available filters on the dashboard are explained below.

Filter	Icon	Description
From Date-To Date	From Date - To Date 1/1/2021 2/6/2024	Users can select a date range by selecting dates from a calendar or scrolling a slider from both ends to specify the start and end dates for viewing the equipment alarm report.
Account	Account ☐ Select all ☐ USA Oakdale DS2 Troubleshooting - 00008F ☐ USA Oakdale iNet DS Troubleshooting - 00008DS ☐ USA Oakdale Support Cell - 30015CQ ☐ USA Oakdale Support Cell DS - 30015CT	Users can select an account associated with the instruments and display the specific account report by checking the corresponding checkbox. Upon selecting an account, the title of that account is displayed at the top of the page. If all checkboxes in the account sections are unchecked, the title and reports of *all accounts* are displayed.
Equipment	Equipment ☐ Select all ☐ GasBadge Pro ☐ MX6 iBrid ☐ SafeCore Module ☐ Tango TX1 ☐ Ventis MX4 ☐ Ventis Pro Series	Users can select different equipment to display the alarm reports by checking the checkbox next to each equipment. The available equipment depends upon the equipment associated with your account.
Alarm Type		The pie chart illustrates the percentage distribution of the alarms in the account. The alarms are distributed as critical, high, and low alarm types. **Orange:** Represents low alarms. **Red:** Represents high alarms **Black:** Represents critical alarms.
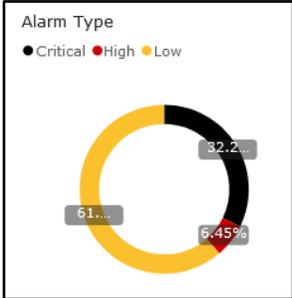
Filter	Icon	Description
Gas Type	Gas Types ☐ Select all ☐ Carbon Monoxide ☐ Chlorine Dioxide ☐ Hydrogen Sulfide ☐ Nonane ☐ Oxygen ☐ Unidentified Combustible Gas	Users can display alarm report data by selecting gases from the gas type list. If no alarms are related to any gas, the filter will not show any alarms on the screen. To choose a gas, mark the checkbox next to it. To unselect a gas, remove the mark from the checkbox.
Duration	Duration Single Aggregated ☐ Select all ☐ 010 ☐ 020 ☐ 030 ☐ 040 ☐ 050 ☐ 060 ☐ 070 ☐ 080	The single tab filters the duration of single alarm. The aggregated tab filters the duration of aggregated alarm event. The alarm duration spans over increment of 10 seconds. Users can visually represent alarm data within this range by checking the checkbox. If no range is selected, the data will reflect the total duration of all gas alarm occurrences.
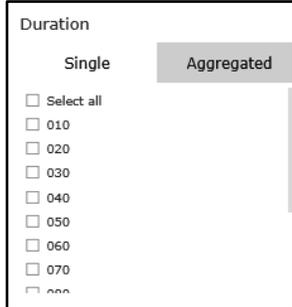
Figure 4.5 Alarm severity dashboard filters

Graphs

The figure below explains the different types of graphs present on the Alarm dashboard and the buttons available on each graph.

Alarms by Date		This graph depicts the counts of alarms over time. Dates are plotted on the horizontal axis, while the vertical axis represents the count of alarms beginning from zero. When you hover your mouse over the graph, it displays the number of alarms for each date.
Alarms by Type		The vertical bar chart displays different alarm types, with the total count for each alarm shown at the top of the graph in matching colors. When alarms happen, date is indicated along the x-axis, and the y-axis starts from zero, displaying the numerical values.
Gas Types		This horizontal bar chart illustrates the number of alarms for each gas type. The gas name is positioned to the bar's left, while the count is shown at the end of the bar. The color of the bar corresponds to the type of gas.
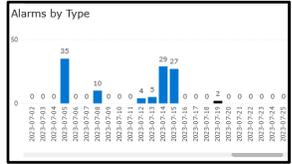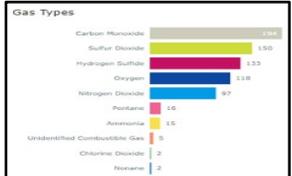
Figure 4.6 Alarm severity fields

Alarms Aggregation

Industrial Scientific has applied a noise filter to merge multiple alarms that occurred on the same instrument within a close time frame. This feature facilitates faster identification of potential operational issues.

The report of event aggregation can be viewed by clicking on the numbers representing the aggregated and total events. This will display the report in both graphical and tabular formats.

Total Events	Aggregated Events
393	170
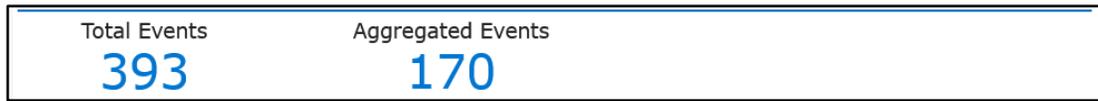
Figure 4.7 Alarms aggregation

Alarm Aggregation Graphs
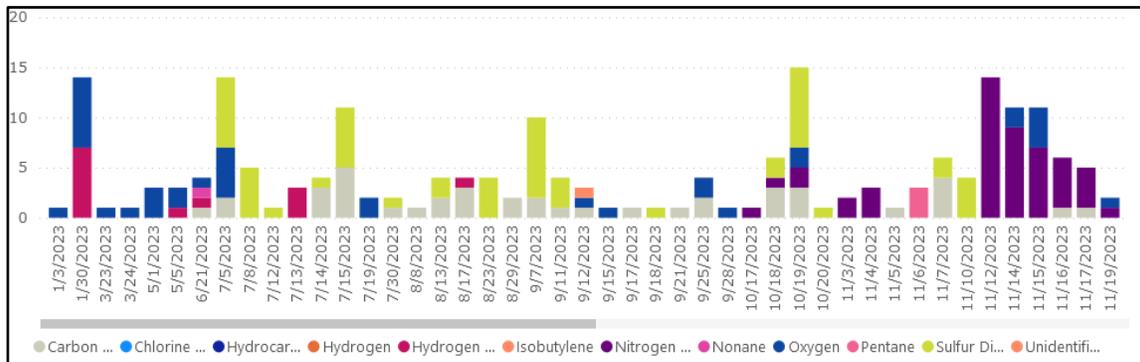
Alarms Histograms	This vertical bar graph shows how alarms are aggregated when they happen on the same date. Each bar represents alarms occurring on different sensors but on the same date. Gas names are shown at the bottom in different colors. The horizontal axis tells you the date, and the vertical axis tells you the number of aggregated alarms. When you hover over a bar, it tells you the date, gas type, and number of combined alarms.
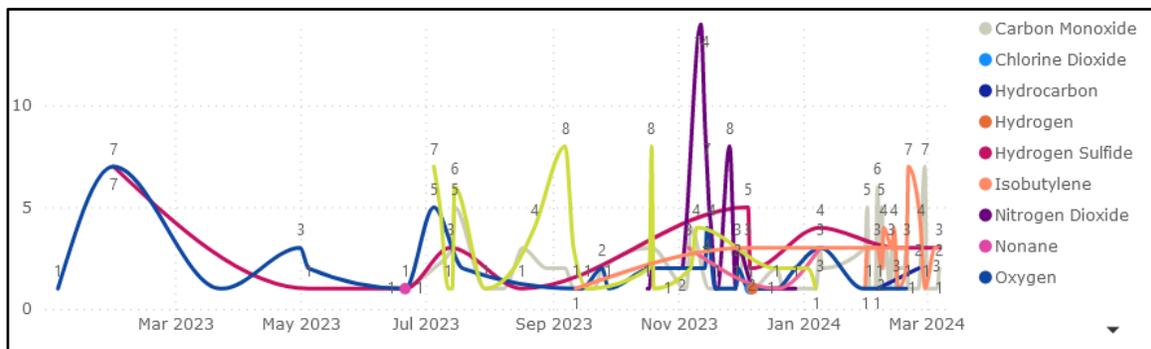
Alarms by Gas	This line graph illustrates the trend and count of alarms for different gases. The y-axis indicates the count, while the x-axis represents the months of occurrence. Gas names are listed in the legend on the right side of the graph. When hovering over the lines on the graph, details such as the date, gas, and count of alarms are displayed.

Alarm	Count	Date(UTC)	Duration(sec)	Gas	Average	Peak	Units	Equipment
High	2	6/21/2023 2:12:36 PM	60	Nonane	25.10	46.0	%LEL	Ventis Pro Series
Low	1	9/12/2023 12:23:14 PM	10	Unidentified Combustible Gas	18.00	18.0	%LEL	Ventis MX4
High	1	11/6/2023 3:37:56 PM	170	Pentane	95.50	100.0	%LEL	Ventis Pro Series
High	1	11/6/2023 3:42:18 PM	40	Pentane	100.00	100.0	%LEL	Ventis Pro Series
High	1	11/6/2023 3:46:46 PM	20	Pentane	100.00	100.0	%LEL	Ventis Pro Series
Low	1	12/5/2023 1:03:09 PM	30	Unidentified Combustible Gas	0.00	0.0	%LEL	Ventis MX4
Low	1	12/5/2023 1:07:04 PM	20	Unidentified Combustible Gas	0.00	0.0	%LEL	Ventis MX4
Low	1	12/5/2023 1:09:27 PM	30	Unidentified Combustible Gas	0.00	0.0	%LEL	Ventis MX4
Low	1	12/7/2023 9:51:38 PM	50	Hydrogen	10.80	11.0	%LEL	MX6 iBrid
High	1	12/19/2023 8:45:06 PM	3,230	Pentane	100.00	100.0	%LEL	Ventis Pro Series
High	2	1/9/2024 6:01:23 PM	70	Pentane	20.35	25.0	%LEL	Ventis Pro Series
High	2	1/9/2024 6:05:08 PM	120	Pentane	24.25	25.0	%LEL	Ventis Pro Series

Alarms Aggregation Table	This table provides a comprehensive overview of alarm aggregation. It includes details on alarm types (critical, low, high, TWA and STEL) along with their respective counts at specific time intervals and dates. Additionally, it indicates the duration of the alarms, gas names, average and peak values of the alarms with their specified units and the names of the instruments where these alarms occurred.

Calibration Compliance

When you select Calibration Compliance, you will be taken to the Calibration Dashboard where the calibration data is displayed in various chart formats.
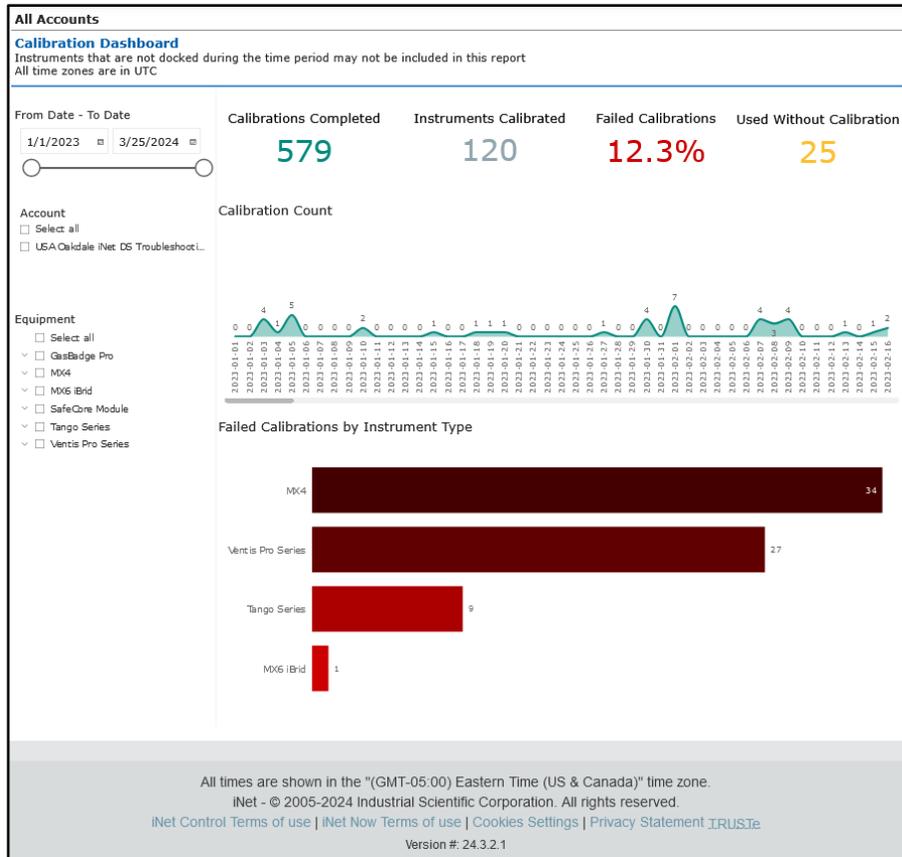
Figure 4.8 Calibration dashboard

Note: This dashboard will not reflect instrument calibrations that occurred outside the specified timeframe.

Filters

The available filters on the dashboard are explained below.

Filter	Icon	Description
From Date-To Date	From Date - To Date 1/1/2021 2/6/2024	Users can select a date range by selecting dates from a calendar or scrolling a slider from both ends to specify the start and end dates for viewing the equipment alarm report.
Account	Account ☐ Select all ☐ USA Oakdale DS2 Troubleshooting - 00008F ☐ USA Oakdale iNet DS Troubleshooting - 00008DS ☐ USA Oakdale Support Cell - 30015CQ ☐ USA Oakdale Support Cell DS - 30015CT	Users can select an account associated with the instruments and display the specific account report by checking the corresponding checkbox. Upon selecting an account, the title of that account is displayed at the top of the page. If all checkboxes in the account sections are unchecked, the title and reports of *all accounts* are displayed.
Equipment	Equipment ☐ Select all ☐ GasBadge Pro ☐ MX6 iBrid ☐ SafeCore Module ☐ Tango TX1 ☐ Ventis MX4 ☐ Ventis Pro Series	Users can select different equipment to display the calibration reports by checking the checkbox next to each equipment. The available equipment depend upon the instrument associated with your account.

Figure 4.9 Calibration dashboard filters

Calibration Summary

In this section, you will find the calibration summary. The summary is color-coded for easy identification and is accompanied by their occurrence counts.

Calibrations Completed	Instruments Calibrated	Failed Calibrations	Used Without Calibration
546	116	12.8%	23

Figure 4.10 Calibration summary

You can access detailed reports by clicking the figures, which present calibration information in table and graph formats.

Table 4.1 Calibration summary

Filed	Description
Calibration Completed	This field shows the overall count of completed instrument calibrations. The numbers are interactive; meaning clicking them will produce corresponding reports labeled *Calibration Details Drilldown.* The following fields can be displayed in the table. • **URL:** By clicking on the URL (🔗) icon, you will be directed to the Instrument summary. • **Event Date:** This column displays the date when the event occurred. • **Equipment Type:** This column lists the various types of equipment where alarms occur. • **Docking Station:** This field displays the serial number of the docking stations where the instrument was docked.

Table 4.1 Calibration summary

Filed	Description
	• **Calibration Result:** This column shows the calibration status of the equipment, indicating whether it has failed or passed.
Instruments Calibrated	This field shows the count of calibrated instruments, and the numbers are clickable. Clicking on them will generate a report named *Calibration Details Drilldown.*
Failed Calibrations	This field indicates the percentage of calibration failures. Clicking on the percentages generates a report called *Failed Calibration Drilldown,* presenting both graphs and tables, with further details explained below: • **Failed Calibration:** This represents the total count of failed calibrations, highlighted in Red. • **Failure by Instrument Type:** This horizontal bar graph illustrates the total failures. The names of instruments are displayed on the left side of the graph, with the corresponding counts on the right side. • **Top 10 Failures by the docking stations:** This horizontal bar graph displays the failures occurring by the docking stations. The serial numbers of the docking stations are listed on the left side of the bars, with their respective counts on the right side.
Used Without Calibration	This field shows the total count of instruments used without undergoing calibration. Clicking on the number will generate a report named *Used Without Calibration Drilldown,* which presents the data in graph and table formats.

Graphs

The figure below describes the graphs available on the calibration compliance page.

Graph	Icon	Description
Calibration Count		This graph illustrates the count of calibration events over time, with dates displayed along the bottom and the number of occurrences shown at the top of the graph. When hovering the mouse over the graph, specific event numbers for each date are displayed.
Failed Calibration by Instrument Type		This horizontal bar graph illustrates the failures of the instruments. The equipment name is displayed on the left side of the graph, with the corresponding counts on the right side.
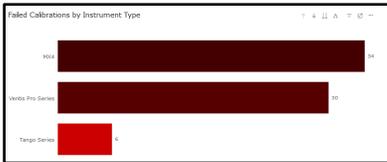
Figure 4.11 Calibration compliance graphs

Bump Test Compliance

Selecting *Bump Test Compliance* redirects you to the Bump Test Dashboard. Here, the calibration data is displayed in various charts and table formats.
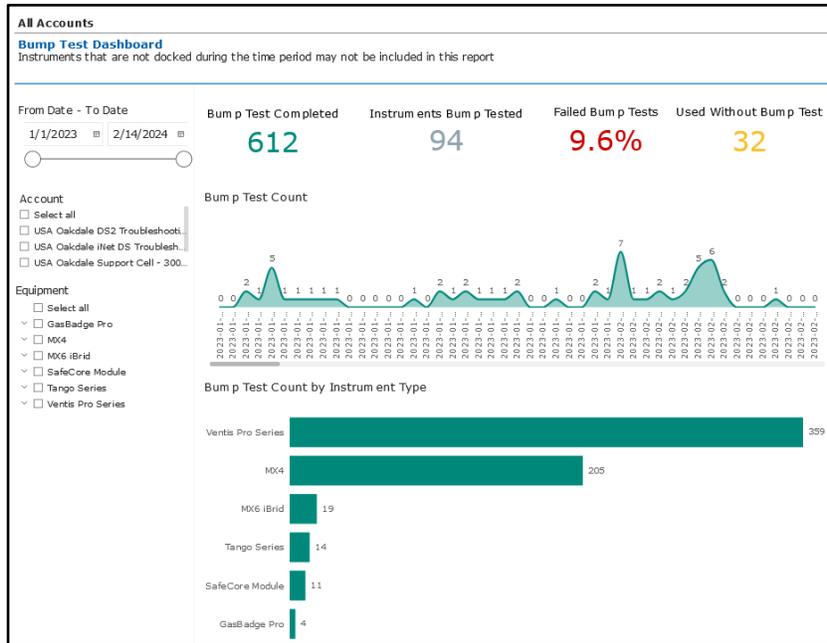
Figure 4.12 Bump test dashboard

Note: This report will not reflect instrument bump tests that occurred outside the specified timeframe.

Filters

The available filters on the dashboard are explained below.

Filter	Icon	Description
From Date-To Date		Users can select a date range by selecting dates from a calendar or scrolling a slider from both ends to specify the start and end dates for viewing the equipment alarm report.
Account		Users can select an account associated with the instruments and display the specific account report by checking the corresponding checkbox. Upon selecting an account, the title of that account is displayed at the top of the page. If all checkboxes in the account sections are unchecked, the title and reports of *all accounts* are displayed.
Equipment		Users can select different equipment to display the bump reports by checking the checkbox next to each equipment. The available equipment depends upon the equipment associated with your account.

Figure 4.13 Bump dashboard filters

Bump Test Summary

In this section, you will find the bump test summary; the summary is color-coded for easy identification and is accompanied by their occurrence counts.

Bump Test Completed	Instruments Bump Tested	Failed Bump Tests	Used Without Bump Test
612	94	9.6%	32
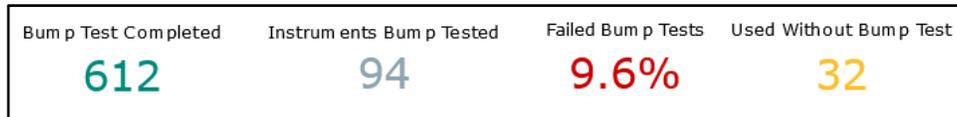
Figure 4.14 Bump summary

You can access detailed reports by clicking on the figures.

Table 4.2 Bump summary

Filed	Description
Bump Test Completed	This field shows the overall count of completed instrument bump tests. The numbers are interactive: meaning clicking them will produce corresponding reports labeled *Bump Test Details Drilldown.* The following fields can be displayed in the table. • **URL:** By clicking on the URL ( ) icon, you will be directed to the Instrument summary page. • **Event Date:** This column displays the date when the bump test event occurred. • **Equipment Type:** This column lists the various types of equipment where bump test alarms occur. • **Docking Station:** This field displays the serial number of the docking stations where the instrument is docked. • **Bump Test Result:** This column shows the bump test status of the equipment, indicating whether it has failed or passed.
Instrument Bump Tested	This field shows the count of bump tests of the instruments, and the numbers are clickable. Clicking on them will generate a report named *Bump Test Details Drilldown*.
Failed Bump Tests	This field indicates the percentage of bump test failures. Clicking on the percentages generates a report called *Failed Bump Test Drilldown,* presenting both graphs and tables, with further details explained below. • **Failed Bump Tests:** This represents the total count of failed tests highlighted in Red. • **Failure by Instrument Type:** This horizontal bar graph illustrates the total failures. The names of instruments are displayed on the left side of the graph, with the corresponding counts on the right side. • **Top 10 Failures by the docking stations:** This horizontal bar graph displays the failures occurring by the docking stations. The serial numbers of the docking stations are listed on the left side of the bars, with their respective counts on the right side. • **Table:** A detailed table is provided with URLs to instrument summaries, along with information on event dates, serial numbers, equipment types, product codes, docking station serial numbers, and counts.
Used Without Bump Test	This field shows the total number of instruments used without a bump test. Clicking on the number will generate a report named *Used Without bump test Drilldown,* which presents the data in graph and table formats.

Graphs

The figure below describes the graphs available on the Bump dashboard.

Graph	Icon	Description
Bump Test Count		This graph illustrates the count of bump test events over time, with dates displayed along the bottom and the number of occurrences shown at the top of the graph. When hovering the mouse over the graph, specific event numbers for each date are displayed.
Bump Test Count by Instrument Type		This horizontal bar graph displays count of total bump test. Instruments' names are shown on the left side of the graph, accompanied by their respective counts on the right side. Hovering over a bar reveals the instrument name along with the total count of failed calibrations.
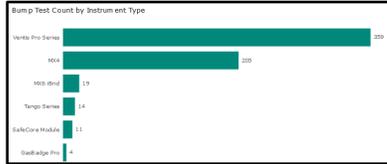
Figure 4.15 Bump compliance graphs

Classic Dashboard

Overview

iNet Control dashboard or classic dashboard allows users to monitor gas levels, alarm settings, and equipment status anywhere worldwide. It also provides historical data that can be used to identify trends and make informed decisions about safety programs.
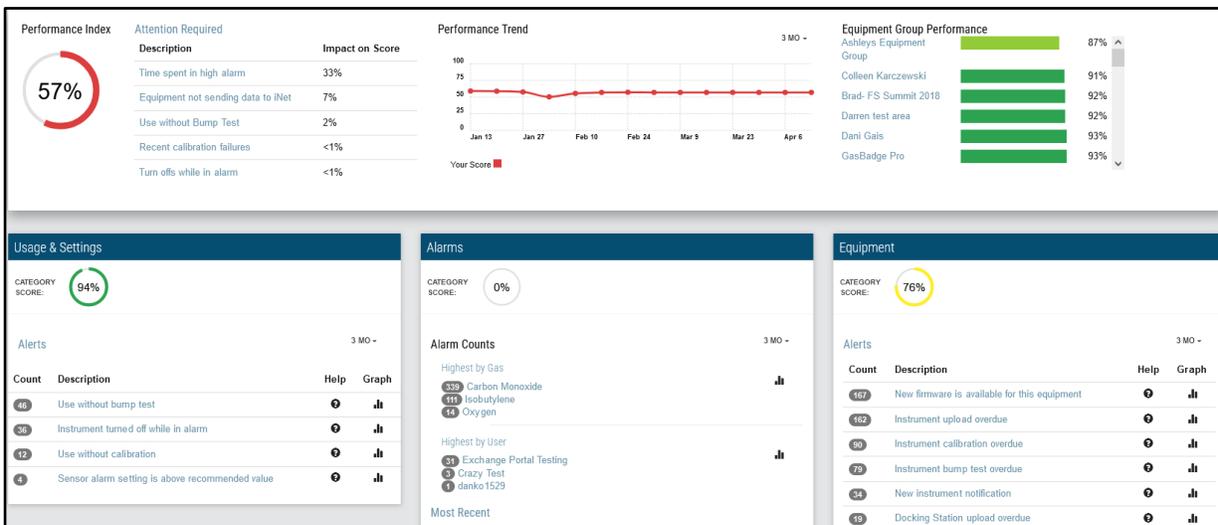
Figure 4.16 iNet Control classic dashboard

Note: Throughout the document, the iNet Control classic dashboard is referred to as both the classic dashboard and simply dashboard.

Classic Dashboard Types

The dashboard can be shown at three levels: Account Group, Account, and Equipment Group.

Table 4.3 Classic dashboard types

Classic Dashboard Type	Description
Account Group Classic Dashboard	The Account Group classic dashboard shows all the data for the entire Account Group.
Account Classic Dashboard	The Account classic dashboard shows all of the data for the account.
Equipment Group Classic Dashboard	The Equipment Group classic dashboard is like the Account Dashboard, except it only shows data related to the equipment in the equipment group.

Grids

The dashboard contains multiple sections, which shows the various categories and their corresponding score.

Gas Detection Program Summary

The gas detection program summary section contains information about the program's overall safety. It combines information from the Usage & Settings, Equipment, and Gas Alarms sections to provide an overall safety rating. The Figure below shows the key features of the performance summary.
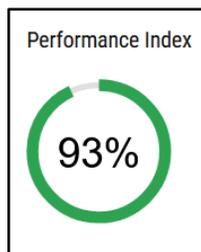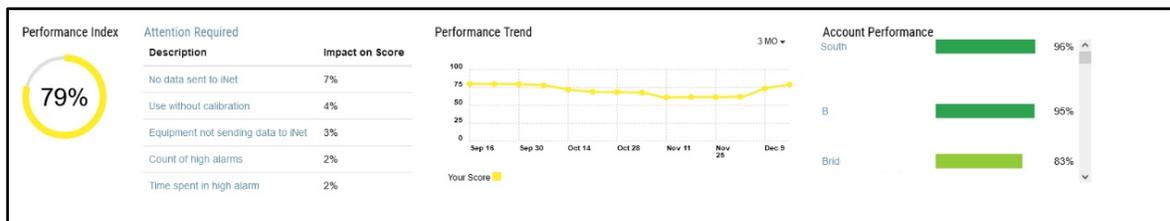
Performance Index

The safety rating section shows how safe the account is, from zero to 100%. A higher rating means a better safety performance. The rating is based on the selected scoring algorithm. If you choose the custom algorithm, the section's heading will change to *Custom Performance Index*. The rating is calculated from the data of the last 30 days.

Attention Required

The attention required section shows the safety practices that affect the score the most. The score is based on the selected scoring algorithm. You can see the full list of safety practices by clicking on the *Attention Required* link. You can also see the alarms or alerts for each practice by clicking on it. The section shows the practices in the order of their impact on the score.
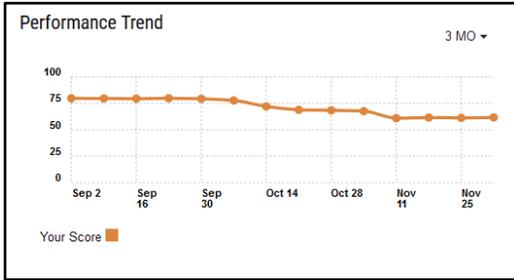
Performance Trend

The performance trend section shows the score changes over time. The score is based on the selected scoring algorithm. If you choose the custom algorithm, the section's heading will change to *Custom Performance Trend*. You can also see the scores for *Industrial Scientific recommendations*, *Custom Scores*, and *Industry Averages* if you enable them on the Dashboard Settings page. You can select the period for the graph from one month, three months, six months, or one year. The default is three months. Your choice will be saved until you close your browser. The graph shows the score for each day, week, or month, depending on the period.
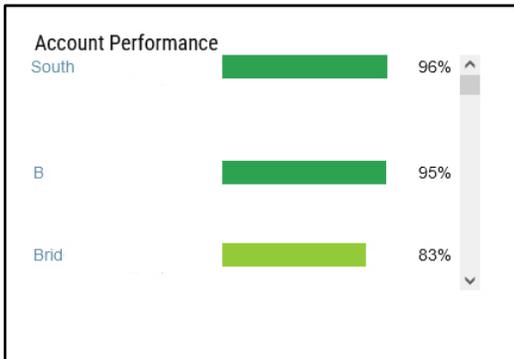
Account performance

The account performance section shows the score for each account in the account group. The score is from 0 to 100%. A higher score means a better performance. The score is based on the selected scoring algorithm. If you choose the custom algorithm, the section's heading will change to *Custom Equipment Group Performance*. You can click on the account name to see the equipment group dashboard.

Equipment Group Performance

The equipment group performance section shows the score for each equipment group in the account. The score is from 0 to 100%. A higher score means a better performance. The score is based on the selected scoring algorithm. If you choose the custom algorithm, the section's heading will change to *Custom Equipment Group Performance*. You can click on the equipment group name to see the equipment group dashboard. This section does not show the equipment groups with all equipment set to *Do Not Alert* status.

Figure 4.17 Performance summary

Usage & Settings

The usage and settings section shows how people use the equipment. It also monitors the safety behavior of the equipment users. This section shows the actions to ensure the equipment works properly. This section is not loaded by default for some accounts.

Category Score

Category score is a metric that indicates how well you are using the application. The score ranges from 0 to 100%, where 0 is the worst and 100 is the best. You can compare your score with the industry average by enabling this option on the Dashboard Settings page.

Alerts Grid

When you click on Alerts, you will be redirected to the Alert List page. The Alerts Grid displays the following categories of alerts:

- Data log recording interval above recommended setting
- Data log disabled
- The sensor alarm setting is above the recommended
- value
- Alarm turned off
- Sensor turned off
- Use without calibration
- Use without bump test
- The instrument turned off while in alarm
- Access Code Change alerts

Each category has a count of uncleared alerts. Alerts remain on the list until each alert is resolved. For a list of alerts and their corresponding resolutions, refer to Appendix - D. You can click on the alert text or count to display the associated Alert List page. The grid displays data for the selected period (one month, three months, six months, and one year).

Help icon

When you click on the help icon in the Alerts Grid, a *how-to-clear alert* popup appears. The text of this popup is specific to the alert in

the icon's row. You can close the popup by clicking the X button or clicking outside of the popup. Refer to Appendix - D for more information on clearing alerts.

Graph icon

Clicking on the graph button displays a graph corresponding to the alert. Time is on the X-axis, and the number of alerts is on the Y-axis.
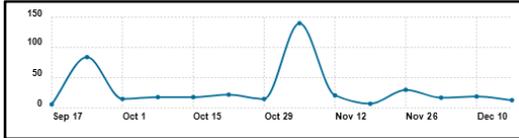
Your graph selection is saved and restored the next time you visit the page. However, the settings are lost when you close your browser. You can display one month, three months, six months, or one year of data using the links in the graph.

Each horizontal line represents a day, week, or month, depending on the selected period.

Figure 4.18 Usage and settings

Alarms

The alarms section shows the gas alarms. It tracks the number and duration of alarms by user and gas. This section shows if any user or gas alarm needs attention.

Alarms

CATEGORY SCORE:	86%	

Alarm Counts — 3 MO ▾

Highest by Gas
- 937 Isobutylene
- 127 Combustible Gas
- 98 Oxygen

Highest by User
- 291 Maintenance
- 61 Jason Rose
- 56 Operators'

Most Recent

Time:	Logged Peak:	Gas:
12/20/2023 5:17 PM	64 ppm	Carbon Monoxide
12/20/2023 5:14 PM	77 ppm	Carbon Monoxide
12/20/2023 2:27 PM	13 %lel	Combustible Gas
12/20/2023 8:53 AM	75.4 ppm	Isobutylene
12/20/2023 7:37 AM	14.9 %vol	Oxygen
12/20/2023 7:37 AM	96 ppm	Carbon Monoxide
12/20/2023 7:37 AM	71.6 ppm	Hydrogen Sulfide
12/20/2023 7:36 AM	71.6 ppm	Hydrogen Sulfide
12/20/2023 7:36 AM	96 ppm	Carbon Monoxide
12/20/2023 7:36 AM	14.9 %vol	Oxygen

Longest Duration

Time:	Duration:	Gas:
11/15/2023 9:33 PM	1h 29m 50s	Isobutylene
11/15/2023 8:43 PM	49m 40s	Isobutylene
11/15/2023 7:55 PM	46m 40s	Isobutylene
10/10/2023 12:23 PM	34m	Isobutylene
11/15/2023 8:40 PM	29m 50s	Oxygen
11/8/2023 8:14 PM	26m 40s	Combustible Gas
9/22/2023 11:46 AM	20m 20s	Hydrogen Sulfide
11/14/2023 9:42 AM	18m	Combustible Gas
11/20/2023 10:30 AM	16m 10s	Isobutylene
12/7/2023 12:19 PM	13m 40s	Isobutylene
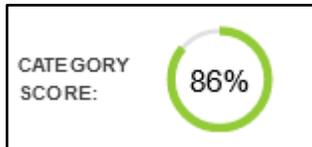
Category Score

The Gas Alarms category score ranges from 0 to 100%, where 0 indicates the worst possible score and 100% indicates the best possible score of gas safety. To understand how scores are figured out, check the Safety Scoring Algorithm.

Highest by Gas

The *Highest by Gas* grid displays the top three gases based on the number of alarms. 339 Icon displays the number of alarms for each gas along the gas name. Clicking the gas name in the grid redirects the user to Alarm History. The alarms history is filtered based on which gas is clicked. Clicking Highest by Gas displays the alarm history without filtering it.

When you click the graph icon, a line graph displays the three gases with the number of alarms during the selected period.

The selected period can be changed through the (3 MO ▾) icon.

Highest by Site

The *Highest by Site* grid displays the top three sites based on the number of alarms. The 339 icon shows the number of alarms along with the site name. If the site name is clicked, the user is redirected to the alarms history list filtered based on the selected site. Clicking the graph icon displays trend of the alarms based on the selected time period.

The selected period can be changed through the (3 MO ▾) icon.

Highest by User

The *Highest by User* grid displays the top three users based on the number of alarms. The 339 icon shows the number of alarms along with the user name. If the user name is clicked, the alarms history list is filtered for the selected user.

When you click the graph icon, a line graph displays the users with the number of alarms during the selected period.

The selected period can be changed through the (3 MO ▾) icon.

Most Recent

The *Most Recent* grid lists the ten most recent alarms. The time, the logged peak gas reading, and the sensed gas are shown for each alarm. Clicking the alarm will navigate the user to the respective Alarm Details page. Clicking on the grid title will cause the Alarm History to be shown. The alarms section is filtered based on the period selected. For one month, it will display the data of the last 30 days. For three months, it will display the data of the last 90 days. The gas alarm list is sorted by alarm time.

Longest duration

Longest Duration		
Time:	Duration:	Gas:
11/15/2023 9:33 PM	1h 29m 50s	Isobutylene
11/15/2023 8:43 PM	49m 40s	Isobutylene
11/15/2023 7:55 PM	46m 40s	Isobutylene
10/10/2023 12:23 PM	34m	Isobutylene
11/15/2023 8:40 PM	29m 50s	Oxygen

The *Longest Duration* grid displays the ten longest alarms. For each alarm, the duration, the time the alarm started, and the sensed gas are shown. Clicking the alarm will navigate the user to the respective Alarm Details page. Clicking on the grid title will cause the Alarm History to be shown. The gas alarms list is filtered based on the period selected. For one month, it will display the data of the last 30 days. For three months, it will display the data of the last 90 days. The gas alarm list is sorted by duration. This is an exception to the behavior described in the Grid Settings section.

The graph button, when clicked, displays the trend of alarm with date and duration of alarm, regardless of which gas type or alarm type it was.

Figure 4.19 Alarms summary

Equipment

The equipment section shows the status and type of the equipment in the selected context. You can see from this section if any equipment needs maintenance, replacement, or recovery.

CATEGORY SCORE: 67%

Alerts

3 MO ▾

Count	Description	Help	Graph
390	Instrument calibration overdue	❓	📊
375	New instrument notification	❓	📊
278	Instrument upload overdue	❓	📊
275	Instrument bump test overdue	❓	📊
38	Low Battery	❓	📊
27	Docking Station upload overdue	❓	📊
22	New docking station notification	❓	📊
12	Calibration - Sensor Failed	❓	📊
11	Calibration - Sensor Is Marginal	❓	📊
11	Calibration Gas Unavailable	❓	📊
5	Bump Test - Sensor Failed	❓	📊
5	Calibration - Redundant Sensor Failed	❓	📊
4	Low cylinder - auto replenish	❓	📊
4	Return equipment	❓	📊
3	Cylinder expired or close to expiring	❓	📊
3	Low cylinder	❓	📊
2	Bump Test - Gas Flow Inhibited	❓	📊
2	Bump Test - Troubleshooting Required	❓	📊
2	Calibration - Troubleshooting Required	❓	📊
2	Empty cylinder	❓	📊
2	Empty cylinder - auto replenish	❓	📊
2	Sensor removed but not replaced	❓	📊
1	Calibration - Gas Flow Inhibited	❓	📊
1	Calibration - Zero Fail	❓	📊

Fleet

Product:	Qty:	Docking Stns.	Inst. / DS Coverage
MX6 iBrid	190	64	3.0 (34%)
MX4	36	27	1.3 (75%)
Ventis Pro Series	226	0	
Tango Series	541	42	12.9 (8%)

Category score

This section describes the score for the Equipment category. The score ranges from 0 to 100%, with 0 indicating the worst possible score and 100% indicating the best possible score.

Alerts

The current alerts grid contains the list of uncleared alerts for the current account sorted by count. Items remain on this list until they have been resolved.

The alert description and the number of that specific alert are shown on the alert grid.

Clicking on the description text will cause the Alert List (Specific Alert) page to be displayed and filtered to the selected alert.

Clicking the alert graph icon causes the graph to display for selected alert type. The section displays data for the selected period. The alerts graph contains data for the selected alert type (both cleared and uncleared alerts). No graph is shown by default. The X-axis represents date, and the Y-axis represents the number of alerts of the selected type.

Clicking the help icon will display a *how to clear alert* popup. The text of this popup is specific to the alert in the icon's row.

Current Fleet

The current fleet grid displays only active iNet equipment in the customer's fleet. The columns in the grid are as follows:

Product: The product displays the type of instrument

Quantity: The quantity column displays the number of instruments of that type.

Docking Stns.: The docking Stations column displays the number of docking stations of that type.

Instrument/DS coverage: The instrument/DS coverage column displays two numbers: The number of instruments per docking station and the docking station coverage as a percentage. A number less than 100% indicates that the account has more instruments than docking stations.

Figure 4.20 Equipment summary

Alert List

Figure 4.21 Alert list

User can access this page through usage & setting or Equipment. The fields of Alert List are explained below.

Table 4.4 Alert list Fields

Column	Description
Check Box	In this column, there is a checkbox that enables users to select alerts for bulk clearing by marking it as checked. However, this checkbox is hidden if the alert cannot be acknowledged or if it has already been acknowledged.
View	A link is available for users to access the Alert Details page. On this page, users can view General Information, Alert Status, recipients, and add or remove notes.
Event	This column specifically applies to alerts regarding the bump or calibration troubleshooting. A link, labeled *Bump Details / Calibration Details,* is available for these. Clicking on it will directly navigate the user to either the Bump Details page or the Calibration Details page, where they can access specific information about the event that triggered the alert.
Quick Fix	This column specifically applies to alerts regarding the availability of new firmware for the equipment. If such an upgrade is available, a *Fix It!* button will appear under this column. Clicking this button will open an inline popup called Quick Fix Pop-up, allowing the user to schedule the upgrade. Once the user schedules the upgrade, the popup will close, and the *Fix It!* button will be replaced with the text *Fix pending...* for that particular alert.
Equipment SN	This indicates the serial number of the equipment associated with the alert. Users can click on this serial number to access the Instrument Summary or Docking Station Summary page.
Component SN	This shows the serial number of the component linked to the alert, if provided. Users can click on this link to navigate to the relevant Battery Summary, Sensor Summary, Cylinder Summary, or Wireless Module Summary.
Description	This column provides description of the specific type of alert being displayed.
Alert Time	This indicates the date and time when the alert occurred.
Status	This indicates the status of the equipment, which is user input field and can be set using Edit management settings.
Cleared	For users who can only view information, the system will display either *Cleared* or *Uncleared* depending on whether they have acknowledged the alert. For admin users, if they have acknowledged the alert, they will see *Cleared*. If the alert has not been acknowledged, they will see a link labeled *Clear this Alert*. Clicking this link will open a popup where they can optionally enter comments. When they click *OK*, the alert will be considered acknowledged, the status will change to *Cleared*, and any notes entered will be saved. Clicking *Cancel* will close the box without saving any changes.
Equipment Code	This indicates the equipment code linked to the alert.
Occurred On	This displays the timestamp and date when the alert occurred.

Reports Administration

The report admin page displays the reports. There are two sections on the page. The reports grid shows the report, and selecting any row displays the *Report Criteria* on the right side of the page. The details displayed in the report criteria include Recipients, Preferred Notification Time, Format, Language, Report Schedule, and Last Generated Time.
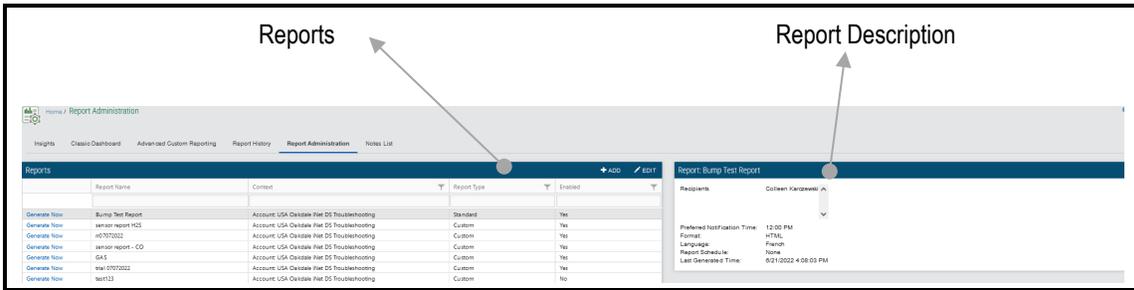
Figure 4.22 Report administration

The reports grid contains a Generate Now button, allowing the user to generate a report instantly.

Add/Edit Report.

Add and edit report pages allow the user to update an existing report or add a new custom report for the account or account group.
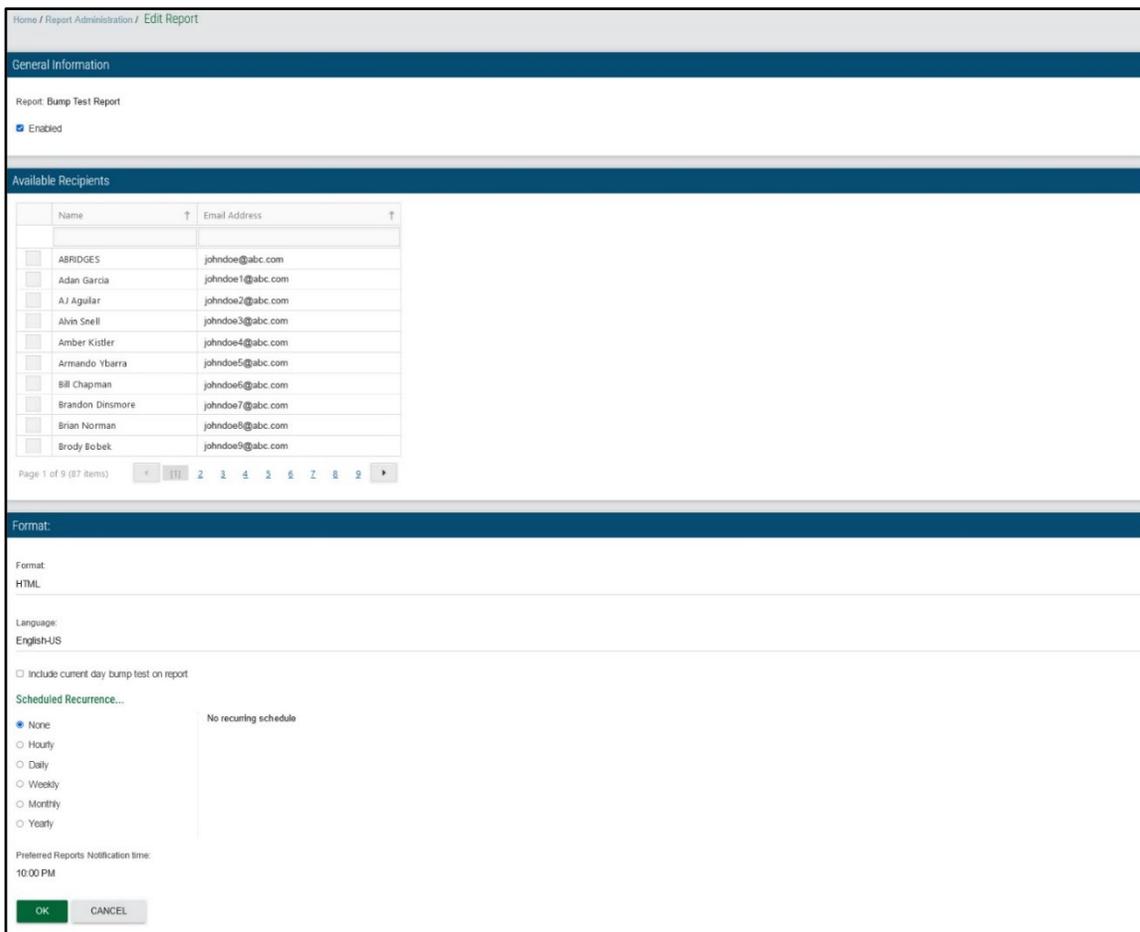
Figure 4.23 Add/edit report.

The fields available on the page are explained below:

Table 4.5 Add/edit report fields

Field	Description
General Information	
Account	The account shows a list of all accounts the user has access to. The report is added at the level selected. Accounts or account groups already configured for this report will not appear in this list. *Note:* This field is not shown when in the context of a single account. It is only shown when the user's context is an account.
Report	The report field is a drop-down list of reports that can be added. The list also contains custom reports such as Custom Equipment Report, Custom Data log Summary Report, Custom Component Report, Custom Gas Alarm Report, Custom Usage & Settings Alert Report, Custom Equipment Alert Report, and Custom Login History Report. Standard reports already configured for all the Accounts/Account groups the user can access will not appear in this list.
Report Name	The Report Name text box allows the user to name the report with a maximum length of 256 characters. If left blank, an error message states, *Enter Custom Report Name.* If the name already exists for the selected report type and account, an error message states, *Custom Report Name already exists. Enter a different name.* This text box is only visible if a Custom report is selected from the Report drop-down. *Note:* Not every report displays this section; however, when it does, the Report detail section will also be visible.
Time frame	A drop-down menu contains the following options: *Continuous, Previous Day, Previous Week, Previous Month, Previous 3 Months, Previous 6 Months, and Previous Year.* These options represent the time frame for the report, which can be adjusted according to the account's time zone. The report will be generated for data that falls within the selected time frame. *Note:* This section will be visible for custom reports only, and not for standard reports.
Enabled	This check box allows the user to enable/disable this report.
Available Recipients	
Available Recipients	The available recipient's grid displays the list of available recipients for a report. The list contains all users from the account that have the email address field populated or, if the account is in an account group, all users in the account group that have the email address field populated. The grid has three columns: Checkbox, Name, and Email. Check marking a user will mark them as a report recipient; unchecking will remove them from the recipients list.

Format

Format	This dropdown menu lets the user specify which format to generate the report. The available formats for standard reports vary based on the report type.
Language	This allows you to select the report language for iNet Control. The available languages include English-US, English-UK, Spanish, German, French, Chinese, Portuguese, Russian, Polish, Danish, Czech, Dutch, Swedish, Thai and Japanese. The language defaults to the currently logged-in user's language.
Reoccurrence	The recurrence options for generating reports include None, Hourly, Daily, Weekly, Monthly, and Yearly. The hourly schedule allows the event to occur every specified hour on the specified days. The daily recurrence allows the report to be generated every specified day or every weekday. The weekly recurrence allows the report to be generated weekly on the specified days. The monthly recurrence has two options. The first will allow the report to be generated every specified day of every month. The second allows the report to be generated monthly on a particular day's occurrence. The report can be generated on a specific date every year or a specific weekday in a specific month.
Preferred Reports Notification time	This dropdown allows the user to specify the desired time to receive the reports. The dropdown contains an entry for every 30 minutes of the day, and the default value is 4:00 AM.

Report History

The report grid lists all reports generated for the account/account group. The grid contains the following columns: Date/Time, Report Type, Report Format, Account Name, and Email Recipients. The reports generated at that group's account level are also shown on the Account Group view.

Figure 4.24 Report history

Report type link redirects the user to view the report. The reports exist in three types of formats. To see the type of reports and their format, see Appendix – C.

Advance Custom Reporting

The advanced custom reporting page generates reports based on custom configurations.

Figure 4.25 Advance custom reporting

Multiple data sources are available for the user to interact with and create reports. The data sources are explained in the table below.

Table 4.6 Data sources

Data source	Icon	Description
Alarm Data	⚠	The alarm data provides the complete equipment alarm data for the account.
Equipment Data	🔧	Equipment data contains the data for the accessory, docking station, gateways, and instruments.
Events Data	🕐	Event data contains data for bump tests and calibration.
Productivity Data	👥	View information related to worker location history and generate insights related to productivity and Geofence utilization.
Components Data	🧩	Component data contains information about cylinders, wireless modules, batteries, etc.

Different functions can be performed on the data and are explained in the table below.

Table 4.7 Data source feature

Data source	Icon	Description
Visualize Your Data	📊	Visualizing your data option allows the user to represent the data in graphs.
Create a Time Series Chart	📈	When you click on this icon, a popup will appear prompting you to enter the necessary information to generate a time series line graph, allowing you to visualize the trend of data on your account.
Save Button	SAVE	This button saves any modifications made to the time series chart. Once saved, the graph will appear under the *Advanced Custom Reporting* tab of the equipment, displaying data with the applied changes.
Format Data Cells	🖌	The user could choose a Column, apply the conditional logic from available options, and highlight the data results per defined text and background color.

37

Save/Load Favorites		For each data source - the user applies the filter data and creates a graph to visualize the data best. Here, the user could save the category and value of the function with this Configuration for later purposes.
Clear All Filters		It is used to reset all applied data filters from the data grid and set it to its default view.
Export To Excel		It exports the current data grid (with applied filters) to an Excel file.

Visualize Your Data

Visualizing your data option allows the user to represent the data in graphs.
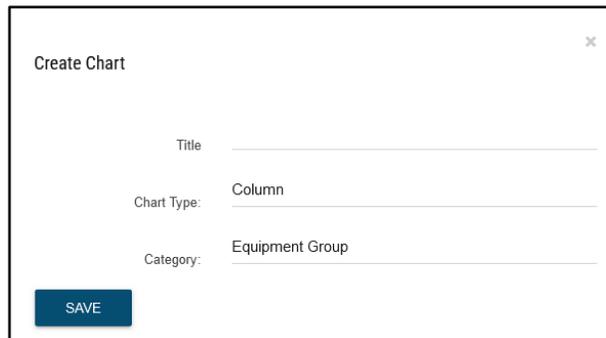
Figure 4.26 Create chart

The user can visualize the data in Column, Pie, Bar, and Doughnut charts for each data source (Alarm, Equipment, Events, Productivity, and Components Data).

The user can enter the name of the chart. If no name is entered on the chart, the chart's default name is assigned to the chart.

Create a Time Series Chart
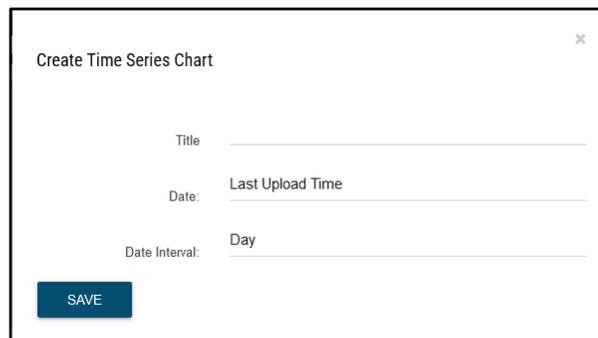
Figure 4.27 Create time series chart

The time series chart allows the user to visualize any data source against time. It creates a time series chart for the data input. The user can enter the name of the chart. If no name is entered on the chart, the

chart's default name is assigned to the chart. The date interval of the time series chart defines the period for which the data is represented. It can be from day, month, year, and none.

When the user selects none, it is defined over the complete time of the selected option.

Note: The time series chart offers various options depending on the data source.

Format Data Cells

Formatting data cells allows the user to choose a column and highlight the data results based on any conditional logic from available options.

Figure 4.28 Format cells

Column

The user can select the data source they want to format. The available columns are shown as a drop-down. The user can select any column from the list as needed. The columns are different for each data source.

Operator

The user can use the following operators to develop the logic

- **Contains:** When you choose a specific column and enter a value in the designated field, any cells within that chosen column that match the entered value will be highlighted.
- **Not Contains:** When you choose a specific column and enter a value in the designated field, any cells within that chosen column that do not match the entered value will be highlighted.
- **Equals:** When you choose a specific column and enter a value in the designated field, any cells within that chosen column that are equal to the entered value will be highlighted.
- **Not Equals:** When you choose a specific column and enter a value in the designated field, any cells within that chosen column that are not equal to the entered value will be highlighted.
- **Start with:** When you choose a specific column and enter a value in the designated field, any cells within that chosen column that start with the entered value will be highlighted.
- **End with:** When you choose a specific column and enter a value in the designated field, any cells within that column that end with the entered value will be highlighted.

Value

The user can enter any value they need to apply the operation in the value field.

Text, Background

Text and background colors allow the user to set each color for highlighting purposes.

Equipment Warning Report

This report displays a grid containing a list of alerts grouped by Alert Code. The grid contains the following fields: Equipment SN, Equipment Category, Equipment Group, Status, First Alert Time, Last Alert Time, Last Event Time, and Custom Fields. Alert Code groups the alerts. The report lists two alerts: Instruments that have not been calibrated in specified days and Instruments that have not been bump tested in specified days. The Equipment SN field links to the Instrument or Docking Station Summary page as appropriate.

Figure 4.29 Equipment warning report

Notes List

The Notes List grid displays the notes entered for the selected equipment group/account/account group and also for the disconnected cylinders. The grid contains the following columns: Record Selection checkbox, Serial Number, Note Type, Entered Date, Equipment Category, and Entered By. The Equipment SN field links to the equipment summary page as applicable. Clicking the *Delete Selected Notes* button will delete selected notes.

Figure 4.30 Notes list

5

People

User Administration

Permission Administration

User Login History

User Administration

Overview

The User Administration is used to manage iNet Control users. A new user can be added through this page, and a personal summary of different users can be viewed here. The fields of the user administration page are explained below.

Header Bar

Grids record per page

Users can change the number of records displayed on the page using this selection.

Apply

The apply button applies the changes made to the grid record per page.

Quick add person

The quick add person button opens up a popup window to add a person.

Add new person

Clicking on add new person will redirect you to the Add User page. You can add the user and setup their level of access and control access within the iNet.

Download

The download button downloads an Excel file containing the complete user administration data.
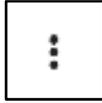
Options

Clicking this displays a drop-down with multiple options,

- **Show only iNet Control User**: this checkbox filters the user data
- **Search iNet users across all accounts**: This takes you to the Search iNet User page.
- **Clear All Filters**: Clear all the filters currently applied to the page.
- **Reset Layout:** Restores the page to its default layout.

User administration columns

Column	Description
Full Name Full Name ↑ Chris Schwanke Christopher Lee Daniel Boyken	**Full Name** This shows the name of the user. Clicking this link will take the user to the Person Summary.
iNet Control User ID iNet Control User ID ▼ johndoe1 johndoe2 johndoe3	**iNet Control User ID** The User ID for iNet Control login can optionally be an email or can be a user ID. *Note:* Even users without a login may still be assigned to instruments and receive reports.
Employee ID Employee ID ▼ johndoea1 johndoeb2 johndoec3	**Employee ID** The Employee ID column displays the employee ID of the user as assigned by their employer.
Email Address Email Address ▼ John.Doe1@abc.com John.Doe2@abc.com John.Doe3@abc.com	**Email Address** The *Email Address* column shows the email address used by the user to receive reports or subscribe to alerts by email.
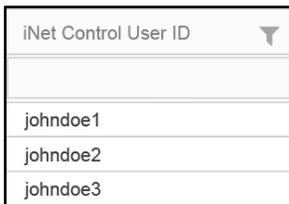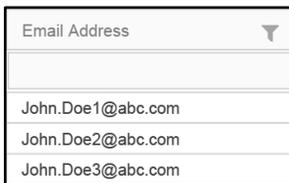
Assigned Instrument

The Assigned Instrument column displays the serial number of the instrument or instrument the person is assigned to. If more than one instrument is assigned, the list of instruments is separated by commas. Each serial number is a hyperlink to the Equipment List page for that instrument.

User Name

The User Name column displays the user's name used for the equipment assignments.

Permission last edited by

This column shows who edited the permission of the user.

Permission last edited date

This column shows when the permissions for this user were last edited.

Locked Out

If a user is locked out, you can unlock their account by clicking a checkbox. If the user is not locked out, clicking an unchecked checkbox will do nothing. Unchecking is possible only with User Admin - View & Edit permission, and this feature is exclusive to Traditional Users and not applicable to SSO Accounts.
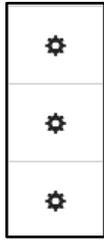
Settings Icon

Clicking the settings icon ⚙, shows a dropdown menu with options,

- Duplicate
- Edit
- Delete
- Create iNet Control User ID
- Merge Duplicate Users

Figure 5.1 User Administration page

Duplicate

Clicking this will take the user to the Enter User Details. You can enter the Full Name, Email Address, Employee ID, and iNet Control User ID fields and duplicate the user.

Edit

Clicking this will take the user to the Enter User Details for modifications.

Delete

If you click Delete, the selected user will be deleted. The user will first be prompted to confirm the deletion.

Warning: The user will be removed from all instrument settings and email subscriptions.

🛈 Delete Confirmation   ✕

Are you sure you want to delete the user : EH-MX6 #1?

Warning: user will be removed from all instrument settings and email subscriptions.

🗑 OK   CANCEL
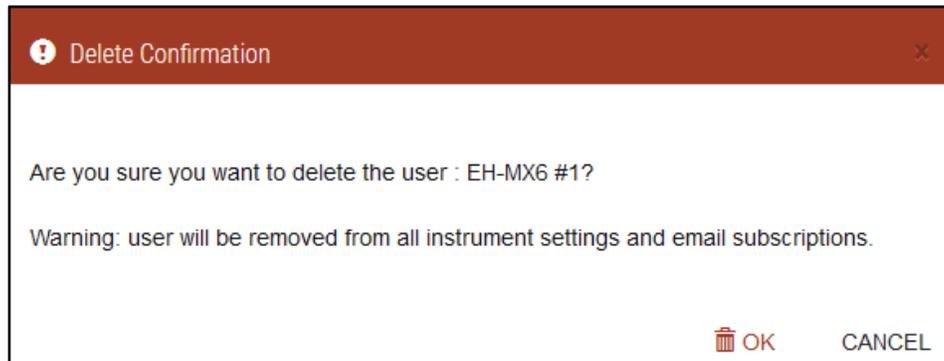
Figure 5.2 Delete confirmation.

Create iNet Control User ID

Suppose an iNet Control User ID has not yet been created for the user. The Create iNet Control User ID menu will be displayed in that case. Clicking this will redirect the user to iNet Control User ID page to create the User ID.
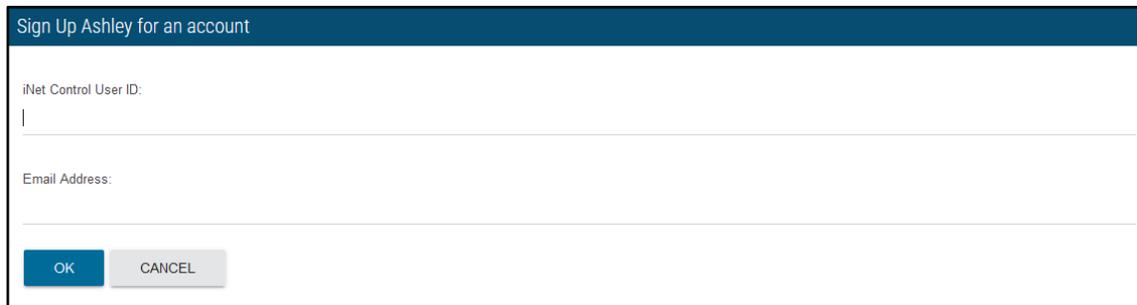
Figure 5.3 Create iNet Control user ID

Merge Duplicate Users

Clicking the merge duplicate user allows the current user to select another user or users in the Account group to link with. The popup will only allow you to choose users without *iNet Control User ID*. The Merge Duplicate Users Popup header will show the text *Subscriptions cannot be merged. All other user data (data logs, alarms, alerts) will be transferred to the user,* followed by the full name of the selected user.

Figure 5.4 Merge duplicate users

Clicking in the field causes a list of available user's Full Name to appear. Clicking on a user in the dropdown list will select it, remove it from the list, and cause it to become a *tag* in the input field. This tag will contain a *remove* button and the Full Name.

This will allow up to 5 total *tags* to be added.

The merge process links the selected users to the current user. The user shown for data log session, instrument alarm, data log alarm, alerts, and instrument users will be replaced with the name of the user they are linking to.

Quick Add Person Popup

To create a person, enter their name, set their access level, and click the Add button. Upon successfully creating the person, the message the p*erson successfully added* will be displayed in the popup. The message will disappear when you start typing. The Full Name textbox will be cleared, and the popup will remain open to allow more users to be added. You can close the popup anytime by clicking the Cancel button. An error occurs if you add a user with the same full name as another user in the Account.
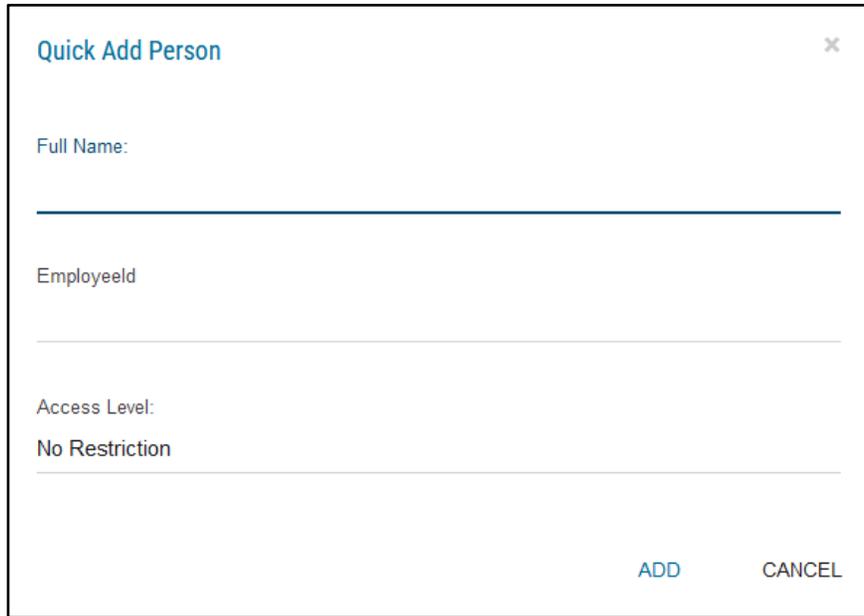
Figure 5.5 Quick add person popup

The newly added users will be shown in the grid after closing the popup. The created user will be given Read Only access against the dashboard context (Account Group or Account).

Add User Details

The add user details page adds a new user to the account or account group.

Enter User Details

ℹ Users can be set to receive reports, alert notifications and can be added to instruments.

User Name:

For Equipment Assignments

Full Name:

Access Level:
No Restriction

Employee ID:

Mobile number
🇺🇸 ▾ e.g. (201) 555-0123

Email Address:

Language:
English-US

Timezone:
Use the Account's Time Zone

Startup Screen:
Landing Page

Select the level to control access:

○ Account Group (all accounts in the group)
◉ Account (select accounts in the grid below)

Name	Permissions
AG Associates India	No Access
Adhya Lucknow	No Access
Alembic,Karakhadi	No Access
Aroma D France	No Access
BASF Ankleshwar	No Access
Cadila Health care Ltd.,Ankleshwar	No Access
Cargil India Ltd - Gandhidham	No Access
Chetan Engineers (Montu)	No Access
Deep Industries Ltd.	No Access
Essar Oil	No Access
GAIL Vadodara	No Access
GAIL-JAIPUR	No Access
GFL Dahez	No Access
GTC oil Field	No Access
INDIA ISC Rental	No Access
kaycee	No Access
Kingston	No Access
rental instruments	No Access
Gayatri Engg	No Access
ISS	No Access
Reynold (Flint)	No Access
San Enterprise	No Access
Sitaram Energy	No Access
Sopan (GAIL , Gandhar)	No Access
Sulzar	No Access
Technocentric Solution	No Access
Vishal Enterprise (Mehsana)	No Access
Wadia Body Builders	No Access

Allow user to log in to iNet (required for iNet Now)

ℹ *Note : The user will only see equipment in the Accounts and/or Equipment Groups specified above.

iNet Control User ID:

[OK]   [CANCEL]

Figure 5.6 Add user

Enter User Details

The enter user details grid is used to add the user details.

Figure 5.7 Enter user details

The Enter User Details grid field is explained below.

Table 5.1 User details

Field	Description
User name	The User Name field is a required field when creating a new user. If the field is left blank, the name entered is less than 4 characters or greater than 16 characters, or the name already exists in the account group, an error message will be displayed. Suppose a person is created from any other page, such as Quick Add or Edit Instrument User Page. In that case, the User Name will be auto-generated using the first 16 characters of the Full Name.
	Note: When a user tries to create a new user with the same User Display Name as a previously merged user, the system will prompt the user to confirm whether to create/update the user with this User Name.
Full name	The Full Name field is a required field for creating a new user.
	If the field is left blank, the name entered is less than 4 characters or greater than 50 characters, or the name already exists in the account group, an error message will be displayed.

Table 5.1 User details

Field	Description
Access level	The Access Levels are *No Restricted*, Most Restricted, Level 1-8, and *Least Restricted*. The default access level is No Restriction. When a User is assigned to an Instrument (and the instrument is docked to receive settings updates), the User's *Access Level* setting will be applied to the instrument in place instead of the instrument's *User Access Level* setting. When no User is assigned, the instrument will only use the *User Access Level* configured in Edit Instrument Settings or Edit Settings Group.
Employee ID	**Warning**: This information does not receive special data protection. Do not enter any information into this field that could be used by malicious persons for identity theft.
	The Employee ID field is used to capture an Employee ID of a user. Suppose the user enters an Employee ID that already exists within the Account/Account Group. In that case, iNet Control will display an error message.
Mobile number	The Mobile Number field associates a mobile number with a user. The mobile number field's country code is populated based on the account's country code that the user belongs to. If that code is not set, the default country code of the *US* will be used instead. Clicking on the flag icon will list the countries in a dropdown window, and entering the country's name will filter the countries. Entering the valid country code (always starts with +) in the mobile field will change the flag to the respective country. The placeholder text will tell the valid mobile number format of the selected country.
Language	The language dropdown allows the user to specify the language used to display all pages in the Customer Interface. In addition, the selected language is used for all reports generated for this user. The possible choices for language are English – US, English – UK, Spanish, German, French, Chinese, Portuguese - Brazil, Russian, Polish, Danish, Czech, Dutch, Swedish, Thai and Japanese.
Time zone	The Time Zone field will provide users with admin rights and the ability to set time zone information on a user login when the login is created. The time zone field will default to inherit the Account's time zone.
Startup screen	The Startup Screen dropdown contains names of pages that will serve as the startup page for a user. The dropdown will have a Landing Page (home page), Dashboard (classic dashboard), Equipment List, Gas Alarms Events, and iNet Now in the list. If the account is an iNet Now-only account, then iNet Now is the default; otherwise, the Landing Page is the default.
Email Address	The email address field links an email to a user for receiving alerts, reports, and emails (maximum 250 characters).
	Note: For subscribing alerts to the users email address is required.

Select the level to control access.

Figure 5.8 Level of access

Selecting the level to control the *access* field allows you to choose between Account Group and Account. If you select Account Group, the grid below will change to show the account group. If you select Account, the grid below will change to show the accounts/equipment groups for which the logged-in user has Admin

permissions. This field will be hidden if the user is not in an account group. This field will be disabled if you have selected your user account.

- The *Name* field shows the name of the Account Group/Account/Equipment Group.
- The *Permissions* dropdown contains permissions: No Access, Read Access, Admin Access, or Custom Permission Sets.

Allow user to log in to iNet (required for iNet Now)
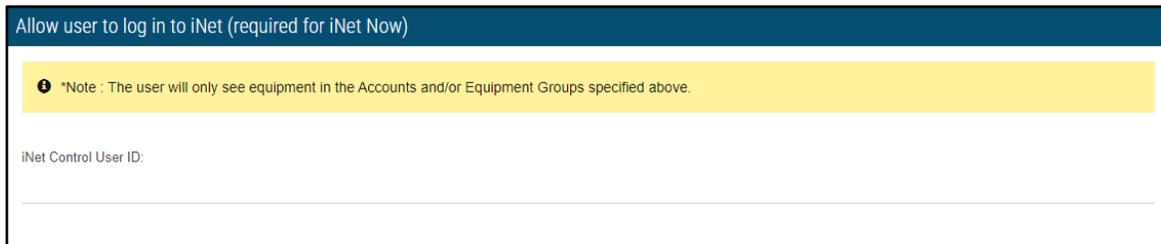
Figure 5.9 Allow user to log in to iNet

iNet Control User ID field is used to enter iNet Control User ID for both Traditional and SSO Users.

OK

Clicking the OK button adds the user to the database and iNet Control User to membership. On successful addition, an email containing iNet Control User Name & Password is sent in two different emails if the *Send email password secured is chosen for this account/account group* or a single email with the email address provided. Finally, the User Administration page displays the newly added user's information.

Cancel

Clicking the Cancel button causes changes to be lost, and the User Administration page is displayed.

24/7 Professional Monitoring
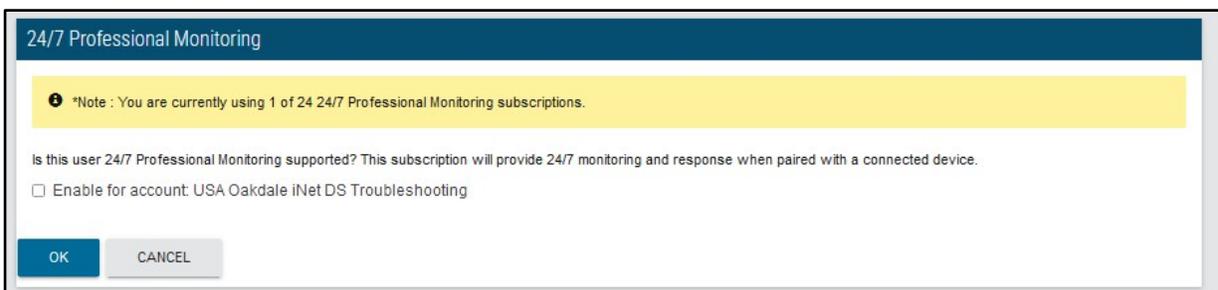
Figure 5.10 24/7 Professional monitoring

When you enable 24/7 professional monitoring, the Real-Time Response Center monitoring for iNet Now customers become active. This feature provides continuously updated status indicators on the dashboard and escalates alerts according to the client's policy.

Search iNet Users

Figure 5.11 Search iNet users

You can search for a user by Full Name, Email address, or iNet Control User ID. Once you enter the search criteria, click the Search button to populate the results grid based on the criteria entered by the user.

The results table displays the following fields: Full Name, Email, iNet Control User ID, and Account (Group).

Permission Administration

The Permission Administration is used to manage the permissions for iNet Control users. A new permission set can be added through this page, and the existing permission summary can be viewed from here. The fields of the permission administration page are explained below.

Permission Set

This grid displays a list of permission sets. When a data row is clicked, it is highlighted, and the Permission Set label and Permissions Grid are refreshed to show the selected data. However, when a group row is clicked, it is not refreshed. The list is grouped by Custom and Standard groups, with Standard sets shown first, followed by Custom. The text for Custom sets says *Custom Permission Sets (Account Group)* or *Custom Permission Sets (Account)*. The list is sorted alphabetically by Name. An Auto Filter row is shown for all the columns, and a Header filter is shown

51

for the Name and Updated By columns. The standard permission set is given below.

Permission Set Table

The Permissions grid lists the permissions granted to each permission set. The standard permission sets are *Read and Admin*; their respective permissions are listed in the Appendix - A.

Permission Set: Admin Access	
Name	**Permission**
Activate New Equipment	Allowed
Add Notes	Allowed
Alerts	View & Clear
Assign Users to Instruments	Allowed
Datalog	View & Edit
Datalog Alarms	View & Clear
Delete Notes	Allowed
Edit Account / Dashboard Settings	Allowed
Equipment	View & Edit
Equipment Debug Logs	Allowed
Equipment Groups	View & Edit
Event Schedules	View & Edit
Events	View & Edit
Force Events	Allowed
Geofence	View & Edit
iNet Now	View & Edit
Interactive Device Placement	View & Edit
Report Administration	View & Edit
Schedule Firmware Upgrades	Allowed
Settings Groups	View & Edit
User Administration	View & Edit

Add Permission (group or account)

There are two buttons: *Add: Account Group* and *Add: Account*. Clicking the *Add: Account Group* button displays the Add Permission Set page, where the permission set will be created against the Account Group level. Clicking the *Add: Account* button displays the Add Permission Set page, where the permission set will be created against the Account level (select Account on the Add Permission Set page).

+ ADD: ACCOUNT GROUP

+ ADD: ACCOUNT

Figure 5.12 Permission administration field

Add Permission Set Page.

The permission set page allows users to enter a new custom permission set for an account or account group.

Permission Group Name:

Account:
South

Permission group name

The user can enter a name for the permission group. An error message is shown if the name exists in the account group/account.

Account

When creating an account level permission set, the user can select an account from the list of populated accounts if it is part of an account group.

Note: The Account field will be hidden when creating an account group-level permission set.

Permissions

Permission	:	Level of Access		
Alerts	:	● None	○ View	○ View & Clear
Datalog	:	● None	○ View	
Datalog Alarms	:	● None	○ View	○ View & Clear
Equipment	:	● None	○ View	○ View & Edit
Equipment Groups	:	● None	○ View	○ View & Edit
Events	:	● None	○ View	
Event Schedules	:	● None	○ View	○ View & Edit
Report Administration	:	● None	○ View	○ View & Edit
Settings Groups	:	● None	○ View	○ View & Edit
User Administration	:	● None	○ View	○ View & Edit
Geofence	:	● None	○ View	○ View & Edit
iNet Now	:	● None	○ View	○ View & Edit
Interactive Device Placement:		● None	○ View	○ View & Edit
Analytics	:	● None	○ View	

☐ Activate New Equipment
☐ Add Notes
☐ Delete Notes
☐ Edit Account / Dashboard Settings
☐ Equipment Debug Logs
☐ Force Events
☐ Schedule Firmware Upgrades
☐ Assign Users to Instruments
☐ Grant Access to API Developer Portal

Permission	Level of Access
Alerts	None, View, View & Clear
Datalog	None, View
Datalog Alarms	None, View, View & Clear
Equipment	None, View, View & Edit
Equipment Groups	None, View, View & Edit
Events	None, View
Event Schedules	None, View, View & Edit
Report Administration	None, View, View & Edit
Settings Groups	None, View, View & Edit
User Administration	None, View, View & Edit
Geofence	None, View, View & Edit

iNet Now	None, View, View & Edit
Interactive Device Placement	None, View, View & Edit
Analytics	None, View
Activate New Equipment	Checkbox. Unchecked by default.
Add Notes	Checkbox. Unchecked by default.
Delete Notes	Checkbox. Unchecked by default.
Edit Account / Dashboard Settings	Checkbox. Unchecked by default.
Equipment Debug Logs	Checkbox. Unchecked by default.
Force Events	Checkbox. Unchecked by default.
Schedule Firmware Upgrades	Checkbox. Unchecked by default.
Assign Users to Instruments	Checkbox. Unchecked by default.
Grant Access to API Developer Portal	Checkbox. Unchecked by default.
OK button	When creating a permission set, at least one permission must be granted. If not, the message *Select at least one permission* is shown.
	Clicking the OK button saves the permission set and causes the Permission Administration page to be displayed.
Cancel button	Clicking the Cancel button causes changes to be lost and the Permission Administration page to be displayed.

Figure 5.13 Add permission set

User Login History

User Login History refers to the record of user logins on iNet Control. When users log into iNet, their information gets stored, and one can easily access their details. You will see a list of different events sorted by Date/Time. This grid shows the name, iNet Control user ID, email address, and page numbers.

Figure 5.14 User history

The table below explains the different columns available on User History.

Table 5.2 User login history columns

Column	Description
Full name	The Full Name column contains the full name of the user. Clicking the link takes the user to the Person Summary page of the selected user.
INet user ID	iNet Control User ID column contains iNet Control User ID of the user.
Email Address	The Email Address column contains the email address of the user.
Login Time	The Login Time column contains the time the user logged in to iNet Control Site.
Number of Page Hits	The Number of Page Hits column contains the pages the user viewed during this login session.
	Note: If the page is navigated from the Account Group dashboard, it will list all users in the Account Group. If the page is navigated from the Account dashboard, it will show users in that Account. A login is considered when the user loads an iNet Control page after 20 minutes of not using the application.

Person Summary

This page summarizes a user's iNet Activity, including their General Information, picture (optional), and current instruments. Users can access this page to view or edit another user's details (by navigating through User administration) or to view their summary (by clicking the *My summary* link or being redirected from the *My Settings* page).

Figure 5.15 Person summary

6

Equipment

Equipment Groups

Equipment List

Component List

Custom Equipment Properties

Event Schedule

Event List

Settings Groups

Pending Settings

Activate New Equipment

Alarm History

Wireless Group List

Quick Assign

iNet Exchange

Calibration Gas Summary

Interactive Device Placement

Equipment Groups

The Equipment Groups feature helps safety administrators organize the fleet. Equipment groups can be created based on the physical location of the equipment, a common application (e.g., confined space), or another factor central to the gas detection program. Each instrument and docking station can be assigned to any equipment group.
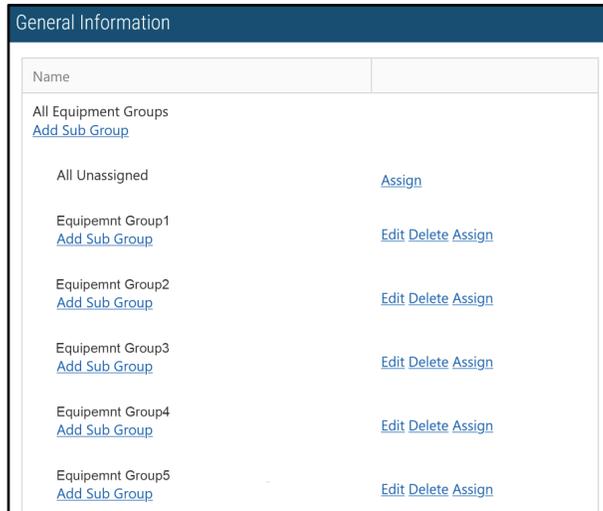
Figure 6.1 Equipment groups

All Equipment Groups is the first node in the equipment group tree. Each created equipment group fall under first node of the equipment group tree. When new equipment enters an account, it is placed in the Default Equipment Group.

Link	Description
Add Sub Group	Clicking the Add Sub Group link redirects to the Add Equipment Group page.
Edit	Clicking Edit on a node redirects to the Edit Equipment Group.
Delete	Clicking Delete on a node prompts the user for confirmation. If they confirm the deletion, the Equipment Group (and all of its subgroups) is deleted, and all equipment in the Equipment Group is returned to the All Unassigned group.
Assign	Clicking Assign on a node takes the user to the Assign Equipment to Equipment Group.

Figure 6.2 Equipment group fields

Add Equipment Group

The add equipment group page allows users to enter a new group under the All Equipment Group or the All Unassigned group.

Figure 6.3 Add equipment groups

The fields of the add equipment group page are explained in the table below.

Table 6.1 Add equipment group fields

Field	Description
Name	This indicates the name of the equipment group and must be unique across all Equipment Groups in an account.
Auto-email certificates to	Users can enable/disable the feature with a checkbox. The list of emails will be deleted if the page is saved while the checkbox is unchecked.
	There will be a *tag box* where users can start typing to discover email addresses associated with users in the Account. Selecting the email address will become a *tag* within the box.
	The tag can be deleted by clicking the *x* icon, but it cannot be edited. Users can test that the email addresses are configured correctly by clicking the *Send Test Email* button. If an error occurs while sending the email, it will be displayed. Otherwise, the message *Email successfully sent. Verify that it was received* will be displayed. For an invalid email id, the message *Invalid email address.* will be displayed.

Edit Equipment Group

The edit equipment group allows users to edit an equipment group under the All Equipment Group or the All Unassigned group.

Figure 6.4 Edit Equipment groups.

The fields of the edit equipment group are explained in the table below.

Table 6.2 Edit equipment group fields

Field	Description
Name	The name of the Equipment Group. This must be unique across all Equipment Groups in an account.

Parent Equipment Group	The list contains the names of all equipment groups in Master Group > Sub Group > Sub, Sub Group.
Auto-email certificates to	Users can enable/disable the feature with a checkbox. The list of emails will be deleted if the page is saved while the checkbox is unchecked.
	There will be a tag box where users can start typing to discover email addresses associated with users in the Account. Selecting the email address will turn into a tag within the box.
	The tag can be deleted by clicking the (x) icon, but it cannot be edited. Users can test that the email addresses are configured correctly by clicking the Send Test Email button. If an error occurs while sending the email, it will be displayed. Otherwise, the message *Email was successfully sent. Verify that it was received* and will be displayed. For an invalid email ID, the message *Invalid email address* will be displayed.

Assign Equipment to Equipment Group

The assign equipment to equipment group allows the user to assign equipment to the equipment group under the All Equipment Group or the All Unassigned group.
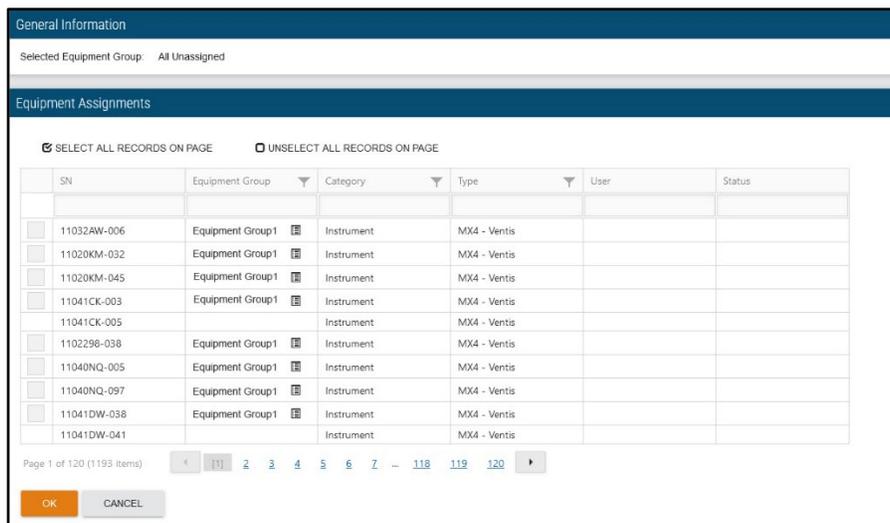
Figure 6.5 Assign equipment-to-equipment groups.

The fields of the Assign equipment group page are explained in the table below.

Table 6.3 Assign equipment-to-equipment group fields.

General Information	
Selected Equipment Group	Displays the selected equipment group.

Equipment Assignments	
SN	The column contains the serial number of the equipment.
Equipment Group	The name of the current group. The icon 🗏 can be clicked to show the group's location in the hierarchy.
Category	• Instrument • Accessory • iNet Docking Station

Table 6.3 Assign equipment-to-equipment group fields.

Type	MX4 - Ventis, MX6 iBrid, etc.
User	User name of the assigned user.
Status	The status of the instrument is a user input field and can be set using edit setting management from Instrument Summary page.
Ok	The OK button saves changes to this equipment group and returns the user to the Equipment Groups page.
Cancel	Discards the changes made to this Equipment Group and returns the user to the Equipment Groups page.

Equipment List

The Equipment List page contains all the equipment. The equipment contains an Instrument, docking station, and accessories. The details of each of the equipment can be accessed through here. Header Bar

Using the header Bar, the user can sort and filter the data on the Equipment List page. The Grid Options include Grid Records per Page, Export, Choose Column, clear all Filters, and Reset Layout features are included. The user can access the Equipment Bulk Operation Wizard and Replaced Instrument List from the *More* (⋮) dropdown on the header bar.

Browse Equipment Groups

Upon clicking the browse equipment group, the user can view the equipment groups in a dropdown.

Figure 6.6 Browse equipment list

The browse equipment groups allow the user to view the equipment groups in the account. If all equipment in an equipment group is set to Do Not Alert status, the equipment group will not be shown in the Browse Equipment Groups section when the Active filter of the grid is set to Active.

Figure 6.7 Equipment groups

All Equipment Groups: Select this to see all equipment associated with all equipment groups in the current account.

All Unassigned: Click this to see all equipment not associated with any equipment group in the current account.

The information specified against each group is as follows:

Table 6.4 Browse equipment group fields

Column	Description
Inst.	Shows the number of instruments in the given level.
DS	Shows the number of docking stations in the given level.
Acc.	Shows the number of accessories in the given level.
Score	Shows the performance index for each equipment group (or the account in the case of *All Equipment Groups*). This is shown as a percentage on a colored background. The colors match the colors from the performance index gauge on the dashboard.

Equipment List Columns

Figure 6.8 Equipment list

The equipment list fields are explained below

Table 6.5 Equipment list fields

Column Field	Description
Serial Number Link	The serial number of the equipment. Click this to access the Instrument Summary/Docking Station Summary page for the selected row.
Category	The equipment category (Instrument, Accessory, or Docking Station) is signified.
Type	The equipment type indicates the associated equipment type for the account such as MX6 iBrid, MX4-Ventis, Ventis Pro5, etc.
Equipment Group	In iNet Hosted accounts, this is the name of the Equipment Group. A tooltip shows the location of the Equipment Group in the hierarchy, including parent/subaccounts.
Last Upload Time	The date and time for the last upload that occurred for the equipment.
Firmware Version	The firmware version of the equipment.

Table 6.5 Equipment list fields

Column Field	Description
User	Either the active or assigned instrument user, whichever is more Recent. Click the link to access the Person Summary page of the selected user.

Optional Columns

Column Field	Description
Active	The active status of the equipment
Language	The language of the equipment
Cluster	If the row represents a docking station and the docking station is in a cluster, the name of the cluster is displayed.
Upgrade Available	A yes/no value indicates whether an upgrade is available. A Schedule link allows the user to schedule the upgrade if the value is yes. If the firmware upgrade is already scheduled, a Pending link is shown that allows the user to edit the existing schedule.
Gas Inlet 1/2/3/4/5/6	This field indicates the part number of the cylinder connected to this Inlet. It will contain *NA* for docking stations without that inlet.
Gas Inlet Pressure 1/2/3/4/5/ 6	This column shows the pressure of the cylinder at this inlet. Pressures and icons are the same as on the Cylinder Summary page. It will be blank for docking stations without that inlet.
Gas Status	This column indicates the status of gas inlet pressure on the 1/2/3/4/5/6 inlet.
Setting Group	The Settings Group of the Equipment. The settings group name will display if the equipment belongs to the settings group. The field will be blank if the settings are equipment-specific. Default will display if equipment belongs to the default settings.
Last Bump Time	The last bumped date of an instrument
Last Calibration Time Column	The last calibration date of an instrument
Next Calibration Date	The Next Calibration Date is uploaded from the Docking Station.
Next Bump Date	The Next Bump Date is uploaded from the Docking Station.
Instrument Currently Docked	Provides the Serial Number of the instrument currently docked.
Last Known State	This field shows the last known state of the docking station.
iNet Supported	It shows whether iNet supported the equipment or not.
Pump	Shows whether the instrument pump is installed or not.
iNet Now Activated	The column will appear if iNet Now has been activated. • Yes, it will be displayed if an instrument is eligible for iNet Now and is activated. • No will display if an instrument is eligible for iNet Now but has not been activated. • N/A is displayed if the instrument is not eligible for iNet Now.

Equipment Bulk Operation Wizard

The Equipment Bulk Operation Wizard operates on different docking stations or instruments simultaneously.

Step 1 (Choose Equipment Type)

In step 1, the user will select the instruments or docking stations for operations.

Selection summary:

This section shows the field Equipment Type and operation. These are always viewable and updated as per steps 1 and 2 selection.

Equipment Type shows the type of equipment the user has chosen in step 1.

Wizard Steps in the upper right corner:

This step shows what step the user is currently on and displays the step's name, i.e., step 1 of 3 chooses equipment type.

Figure 6.9 Equipment bulk operation wizard – step 1

The user can choose the equipment type: Instruments or Docking Stations. If there is one type of equipment in the account, instruments or docking stations, the equipment type option in step one of the wizards should only allow the user to select the type currently located in the account.

Note: If the user accesses the wizard through the home page *Upgrade available* link, Step 1 will be inaccessible. Step 2 will be reached immediately for the user upon navigating this manner.

Step 2 (Choose Operation)

The choose operation field allows the user to set what type of bulk operation it wants to perform on the instrument or docking station.

Different options will be available for the user to select depending on the equipment type.

Instrument operations

Schedule Firmware upgrade	Clicking this button enables users to schedule firmware upgrades for multiple instruments. The next wizard step will show equipment with available upgrades that have not been scheduled yet. Once selected, users will see a set of scheduling options similar to events. They can choose a current or future date and hour for the firmware upgrade.
Restore Settings to Defaults	Only Admins can use this feature to reset multiple instruments to their original factory settings.
Clear Status, Users, and sites	This feature lets the user clear the status, users, and sites for multiple instruments. When chosen, you will see: • Clear Status checkbox: Clears equipment status. • Clear All Users checkbox: Clears Active and Assigned users. • Clear All Sites checkbox: Clears All sites assigned to equipment. *Note*: The Continue button stays disabled until at least one of these options is checked.
Force Bump	This allows the user to force a bump for multiple instruments.
Force Calibration	This also allows the user to force a calibration for multiple instruments.
Force Diagnostics	Allows the user to force diagnostics for multiple instruments.
View Events	Users can check all data log sessions for multiple instruments. This option takes you to the Data Log History page, showing sessions for the selected equipment.
View Data Log Sessions:	This option lets Users see all data log sessions for multiple instruments. It takes them to the Data Log History page, displaying sessions for the chosen equipment.

Note: Only the *Schedule firmware upgrade* option will be visible if the user uses the link on the home page.

Docking station operations

Edit Settings	Admins can edit settings for multiple docking stations simultaneously. By default, all field values are empty.

65

Equipment status: The equipment status field lets users choose between *Active* or *Do Not Alert* as possible values.

Manual Account Association: In the manual account association dropdown, you will find a list of accounts where the user has admin permissions.

Language: The docking stations (iNet Hosted only) support different languages. Possible languages are:

- English
- French
- German
- Portuguese – Brazil
- Spanish

Time Zone: The docking station's time zone (iNet Hosted only) is chosen from the same options on the Account Settings page.

Menu: For the docking station (iNet Hosted only), it indicates whether the menu is locked or not.

Audible Alarm: For the docking station (iNet Hosted only), it shows whether the Audible Alarm is on or off.

Allow expired cylinders to be used for bump tests: For the docking station (iNet Hosted only), it indicates if expired cylinders can be used for bump tests.

Schedule Firmware Upgrade (iNet Hosted Only):	This allows the user to schedule firmware upgrades for multiple docking stations together. After selecting this option, you will see the equipment with available upgrades in the next step. The scheduling options are the same as for events. Every 30 minutes throughout the day, there's an entry for the time selection. The default time is based on the user's time zone on the User Administration page.
Schedule Firmware Upgrade:	The Schedule Firmware Upgrade option allows users to select a specific date and time for installing the firmware upgrade. When chosen, docking stations already running the selected firmware version are hidden in step #3.
Restore Settings Defaults:	This feature enables users to reset multiple docking stations to their default settings.
Force Diagnostics:	This feature enables users to initiate diagnostics for multiple docking stations simultaneously.
View Events:	This allows users to see all events for multiple docking stations. It takes users to the Events page, showing the selected events.
Start Over	Clicking it refreshes the entire wizard, initiating a fresh start. It will be hidden if the user accesses the wizard by clicking the *Upgrade available* link on the home page.
Back Button	Clicking it allows the user to go back to step 1. However, this button will be hidden in Step 2 of the wizard if the user accesses it by clicking the *Upgrade available* link on the home page.
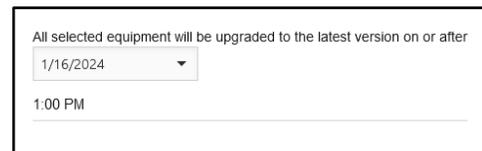
Figure 6.10 Equipment bulk operation wizard – step 2

Step 3 (Choose equipment and Run)

Figure 6.11 Equipment bulk operation wizard – step 3

This wizard step shows a list of either instruments or docking stations, depending on the selection made in the first wizard step. Users can choose equipment on which they wish to perform bulk operations. The selected operations will be exclusively applied to the chosen records. The grid provides filtering and sorting capabilities to facilitate the selection process.

After completing Bulk Operations, all filters on the wizard are reset, enabling the user to begin a new Bulk Operation.

Replaced Instrument List

The replaced instrument list shows the equipment moved from one account to another.

Figure 6.12 Replaced equipment list

The fields of the Replaced Equipment page are explained below.

Table 6.6 Replaced equipment fields.

Column	Description
Serial Number	The serial number of the equipment. When clicked, it takes the user to the Instrument Summary page for the selected row.
Type column	This column indicates the type of equipment (MX6 iBrid, Ventis Pro5, etc.).
Language	The language of the equipment.
Firmware Version	The firmware version of the equipment.
Replaced Date	This field shows the date this was removed from the account.

Equipment Summary

There are different types of equipment summaries depending upon the type of equipment.

If the instrument is due to be returned to ISC, a large banner with red text stating, *Return this instrument to Industrial Scientifi*c, is displayed.

Figure 6.13 Return instrument to Industrial Scientific

The determination of an instrument due to Industrial Scientific will be based on the following conditions:

- If the instrument is replaced and has no replacement or if the customer has already received the replacement.
- If the *Disable and prompt to return* option is enabled for this instrument via Admin Console.

Instrument summary

The instrument summary page gives the user the details regarding the instrument, what components are installed, users assigned to the instrument, calibration, bump testing, and alarms information.
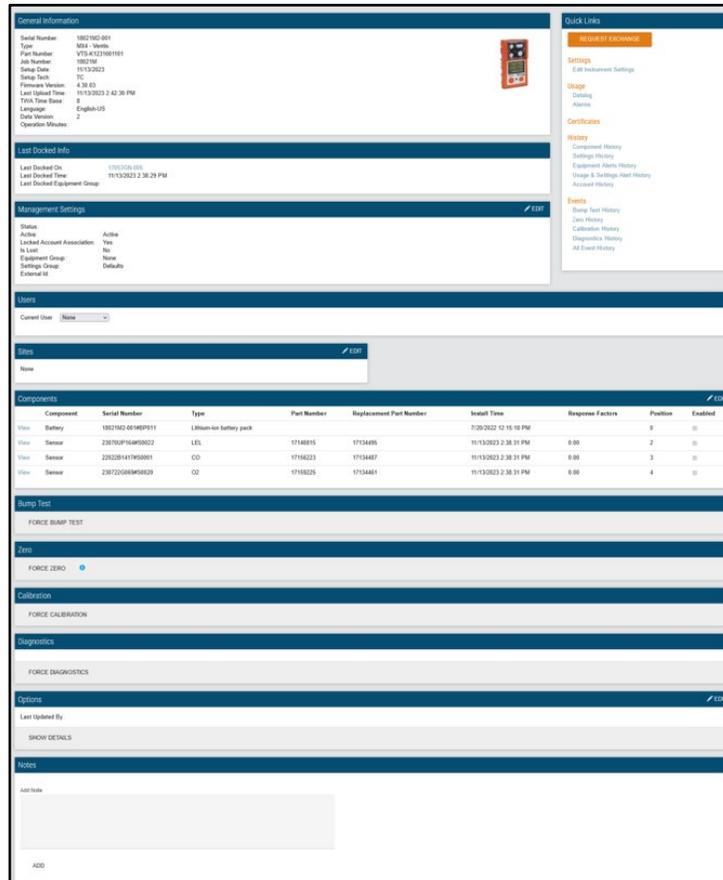
Figure 6.14 Instrument summary

The fields on the instrument summary are explained below.

Note: Depending on the type of instrument, the fields displayed on the instrument summary may vary and some may be unavailable.

Table 6.7 Instrument summary fields

Field	Description
General Information	
Serial Number	Indicating the serial number of the instrument
Type	This field indicates the type of instrument – GasBadge Pro, MX6 iBrid, MX4, etc.
Part Number	Displays the part number of the instrument.
Job Number	The job number for which the instrument was set up.
Setup Date	The setup date, as reported by the instrument.
Setup Tech	This indicates the person who set up the instrument.
Firmware Version	This indicates the firmware version of the instrument.
Last Upload Time	The last time a docking station uploaded data for the instrument.
TWA Time Base	The TWA (Time-Weighted Average) time base of the instrument.
Language	The language setting of the instrument.
Data Version	The data version of the instrument.

69

Table 6.7 Instrument summary fields

Field	Description
Operation Minutes	The Operation Minutes of the instrument
LENS Wireless Feature	Displays whether the LENS is activated on the instrument or not.
iNet Now Sync Feature	Displays whether iNet Now Sync is activated on the instrument or not.
Bluetooth Software Version	This indicates the Bluetooth software version of the instrument.
Bluetooth Mac Address	This indicates the Mac Address of the instrument.
User Access Level	This indicates the user's access level, restricted or no restriction.

Last Docked Info

Field	Description
Last Docked On Link	Displays the serial number of the last docking station the instrument was docked on. Clicking on the link will reveal the Docking Station Summary page.
Last Docked Time	It represents the time when the instrument was last docked.
Last Docked Equipment Group	It shows the equipment group of the docking station that the instrument was last docked on. If there is no assigned equipment group for the docking station, it will be blank.

Note: This part will not be visible for *iNet Now* only accounts.

Management Settings

Field	Description
Edit Link	The grid's header has an *Edit* link, which opens the Edit Management Settings page. This feature is only for iNet Hosted accounts and users with Admin.
Status	The status field is configured for the controlling application (DSSAC/iNet Control). It is not visible for accounts exclusive to iNet Now.
Active	Active status can be one of the following options: • Active • Do Not Alert
Locked Account Association	Locked Account Association indicates whether the instrument is locked to the current account.
Is Lost	The *Is Lost* field tells us whether the instrument is lost or not. If it lost, it is *yes*; otherwise, *no*.
Equipment Group	Equipment Group represents the instrument's assigned group or is labeled as None if not in any group (specific to iNet Hosted).
Settings Group	The settings group's name in which the instrument currently resides, or it is labeled as None if it is not in any group. This applies exclusively to iNet Hosted accounts.
External id	The External ID displays the identification when customers use their external ID.

Accessory Info

Field	Description
Last Base Link	Only for Radius BZ1 can you see the serial number of the last docked base by clicking the link, which loads the Accessory Summary.

Users

Field	Description
Current User	The assigned user is shown in this dropdown menu, and you can update the user on the instrument by clicking the dropdown and selecting another user.

Table 6.7 Instrument summary fields

Field	Description
Other users are available for selection directly on the instrument	This list includes users uploaded by the instrument, specifically for cases of multiple user selection in instruments.
Pending Instrument Docking	This list shows inactive users awaiting instrument docking. Only active users are displayed in the dropdown. This feature is relevant only for instruments with multiple user selections. The list is hidden if there are no pending changes.
User Edit Link	Display the Edit Instrument Users page. This feature is hidden for iNet Now accounts and is available only for iNet Hosted.

Sites

Field	Description
Sites	This list includes the sites that have been set up for the instrument.
Pending (sites)	This list shows the sites configured on the instrument. The active site, based on the latest upload, is marked.
Sites Edit Link	Navigate to the Edit Instrument Sites page.

Components Grid

Field	Description
Edit	The grid header includes an Edit button that opens the Edit Instrument Settings.
View Link	Clicking the View link displays the summary page for each component.
Component	The type of the component, whether it is a sensor or a battery.
Serial Number	Show the serial number of the component.
Type	This indicates the type of the sensor or battery.
Part Number	This displays the part number of the component.
Replacement Part Number	This indicates the replacement part number of the components.
Install Time	Indicate the date and time when the component was installed.
Response Factors	Display the current value of the response factor.
Position	This shows the position of a sensor in the instrument.
Enabled	This indicates the enabled status of the component.

Bump Test Header

Field	Description
Current Status	The page shows the outcome of the latest bump test for the instrument at the time of loading. It is indicated as either *PASSED* or *FAILED*.
Last Bump Date	This indicates the date when the instrument was last bump tested.
Docking Station Used	The serial number of the docking station that conducted the bump test. It is linked to the docking station.
Trigger	The Trigger indicates the reason for the bump test, whether it was Manual, Scheduled, Unscheduled, or Hand-triggered.
Bump Timeout	The Bump Timeout displays the current setting for the bump timeout.
Bump Threshold	The Bump Threshold indicates the current setting for the bump threshold.

Table 6.7 Instrument summary fields

Field	Description
Hide/Show Button	Clicking this button alternates the visibility of the Bump Test grid. It is displayed only if there is a bump test available.
Force Bump Link	Initiates a bump test during the next docking of the instrument.
View Link	Clicking the View Link displays the Bump Test Details page for this specific bump test.

Bump Test Grid

Note: If all sensors pass the bump test, it is automatically hidden by default. However, for the O2 sensor, low bump details will be displayed.

Field	Description
Serial Number	The serial number of the sensor that underwent the bump test.
Time	This indicates the time when the bump test was performed.
Bump Gas	This indicates that gas is used for the bump test.
Cumulative Response Time	This is the Cumulative Response Time uploaded by the docking station, and it is visible when the Show Additional Details is chosen on the Account Settings page.
Concentration	This indicates the concentration of the gas which is used for the bump test.
Status	The Status reflects the outcome of the bump test: Passed, Failed, Failed Low, Failed High, or - (if the test was skipped). For O2 sensors, Failed Low and Failed High are possible outcomes. If the status is not *Passed*, it is displayed in red letters.
Sensor Reading	The reading of the bump test is shown, or it displays NA if unavailable.

Zero Header

Field	Description
Force zero	This is used to perform a zeroing on the instrument.

Calibration Header

Field	Description
Current Status	This shows the result of the latest calibration for the instrument when the page was loaded. It can be *PASSED*, *FAILED*, *MARGINAL*, or *ABORTED*.
Last Calibration Date	This indicates the date on which the instrument was last calibrated.
Docking Station Used	The serial number of the docking station that conducted the calibration.
Trigger	The Trigger indicates the reason for the calibration, whether it was Manual, Scheduled, Unscheduled, or Hand-triggered.
View Link	Clicking the View Link triggers the display of the Calibration Details page for this specific calibration.
Hide/Show Details	Clicking this button switches the visibility of the Calibration Grid. It is displayed only if there is a calibration available.
Force Calibration Link	Clicking Force Calibration initiates a calibration during the next docking of the instrument.

Calibration Grid

Note: It is automatically hidden by default if all sensors pass the calibration.

Field	Description
Graph Link	Clicking the Graph Link triggers the display of the Calibration Graph page.
Serial Number	This represents the serial number of the sensor that underwent calibration.
Time	This indicates the time in which calibration was performed.
Calibration Gas	This indicates the type of gas used for calibration.
Concentration	The Concentration refers to the known concentration of gas used for the calibration.

Table 6.7 Instrument summary fields

Field	Description
Reading	The Reading represents the sensor's measurement during the calibration.
Cumulative Response Time	This is the Cumulative Response Time uploaded by the docking station.
Span Reserve	This indicates the span reserve of the sensor.
Status	The Status reflects the outcome of the calibration, which can be passed, failed, marginal, or aborted.
Diagnostics	
Last Diagnostic Time	Time refers to the time of the latest successful diagnostic.
Force Diagnostic Link	Initiates a diagnostic during the next docking of the instrument.
Options:	
Edit link	The grid header includes an Edit button that redirects to Edit Instrument Settings.
Last Updated By	Shows the name of the user who updated the options.
Show details	The show details link opens up the details for the instrument options.
Notes	
Notes Entry	Each note entered is displayed as a separate entry, including the note's text, the date and time it was created, and the user who created the note.
Delete Link	A delete link is shown for each note entry. Clicking the delete link will result in the deletion of the respective note.
Notes Text Box	The Notes Text Box enables the user to input a note.
Add Button	The Add button saves the note entered in the Notes text box and displays it in the Notes section.

Edit Instrument Settings

Edit instrument setting allows the users to update the selected instrument's setting. The user can update the settings, assign users to the equipment, and update the instrument's response factor and sensor settings. To view the fields on edit instrument settings, see Appendix - B.

Request Exchange
Users may select this option to open a replacement case for a new instrument. After filling out the required fields, a member from Industrial Scientific Technical Support will process the request as part of the iNet Exchange service. To view fields on the request form, see iNet Exchange.

Note: The account must be associated to an Exchange contract

Docking station summary

The Docking Station summary page gives the user the details regarding the instrument—these range from general settings, device settings, gas inlets, and notes.

Figure 6.15 Docking station summary

The fields on the docking station summary are explained in the table below.

Table 6.8 Docking station summary fields

Field	Description
General Information	
Serial Number	This indicates the serial number of the docking station.
Type	This shows the type of docking station. E.g. GBPro, MX6.
Part Number	Shows the part number of the docking station.
Setup Date	This shows the date when the DSX was set up, and the docking station reports it.
Setup Tech	The technician who set up the docking station.
Firmware Version	The Firmware Version the DSX is currently running.
Last Upload Time	The date and time of the last data upload to iNet by the docking station.
Last Reboot Time	Last Reboot Time refers to the date and time when the device was last restarted or rebooted.
Number of Gas Inlet	Number of ports available on the DSX.
Device Settings	

Table 6.8 Docking station summary fields

Field	Description
Language	Indicating the language of the docking station
Time Zone	The time zone setting of the docking station aligns with the options available on the Account Settings page.
Audible Alarm	Indication of whether the Audible Alarm is turned on or off.
Menu Locked	Indication of whether the menu is locked on the docking station.
Allow expired cylinders to be used for bump tests	Indication of whether expired gas can be utilized for bump tests.
LEL Sensor Bump Test Gas	The specific gas selected for the LEL (Lower Explosive Limit) sensor during the bump test.
Purge gases after bump test	Indication of whether the capability to purge gases after a bump test is enabled or disabled.

Management Settings

Active	The status can be one of two options: • Active • Do not Alert
Is Lost	This field tells us if the docking station is lost or not. If it is lost, it is *yes*; otherwise, *no*.
Equipment Group	The docking station group is displayed here if any group is assigned.
Settings Group	The setting group the DSX is assigned to can be *None, Custom,* or *Defaults*.
Force Reboot	You can access the reboot Management Settings page by clicking on the force reboot.
Edit Link	You can access the Edit Management Settings page by clicking on the links.

Gas Inlets

Note: This table displays the list of gases on the docking station.

View Link	Clicking on this link will direct the user to the Cylinder Summary page for the specified cylinder. Note that this link is inaccessible when dealing with Fresh Air Inlets.
Status Column	The cylinder's status can be either *OK* or *Expired*.
Port Column	The gas port to which the cylinder is currently connected.
Part Number column	The part number of the cylinder is displayed, and it can be one of the following: • The actual part number for the cylinder. • *FRESH AIR* if it is connected to fresh air hookups. • *NON-ISC* for non-ISC cylinders. *Note*: If the connected cylinder is not valid at the port, an *unsupported cylinder* icon will be shown next to the part number. Hovering over the icon will display a tooltip saying *Unsupported cylinder*.
SN column	The serial number of the cylinder, if available.
Pressure Column	The pressure column indicates whether the cylinder is *Full*, *Low*, or *Empty*.
Expiration Column	The expiration column shows the expiration date of the cylinder.
iGas Column	The iGas column indicates whether the cylinder is connected with an iGas card. It can be either *Yes* or *No.*
Manifold Primary Docking Station SN	The SN (serial number) of the primary docking station for the manifold cylinder system.

Table 6.8 Docking station summary fields

Field	Description
Options	
Last Updated By	The last update shows the name of the user who updated the DSX options.
Show details	The show detail button expands the options grid.
Option Name	The name of the option or setting.
Value	The last value that was applied to the docking station.
Pending Value	The latest pending value for the setting or option.
Diagnostics	
Last Diagnostic field	The Last Diagnostic field indicates the time and date when the diagnostic was performed.
Force Diagnostic button	When clicked, the Force Diagnostic button initiates a diagnostic event for the docking station.
Notes	
Notes Entry	A note entry is displayed for each entered note, including the note's text, the date and time it was created, and the user who created the note.
Delete Link	Each note entry includes a delete link. Clicking this link will delete the corresponding note.
Notes Text Box	Enables the user to input a note.
Add Button	Clicking the Add button saves the note entered in the Notes text box and displays it in the Notes entry.

Edit Docking Station Settings

Edit docking station setting allows the user to update the DSX settings. The user can update the device, Gas inlet, options, and management settings. To view the fields on edit DSX settings, see Appendix - B.

Request Exchange

Users may select this option to open a replacement case for a new docking station. After filling out the required fields, a member from Industrial Scientific Technical Support will process the request as part of the iNet Exchange service. To view fields on the request form, see iNet Exchange.

Note: The account must be associated with an Exchange contract

Component List

Overview

The Component List page contains all the account or account group components. The components contain sensors, batteries, cylinders, wireless modules, etc. The details of each of the components can be accessed through this page.

Figure 6.16 Component list

Component List columns

The component list fields are explained below

Table 6.9 Component list columns

Column	Description
Serial Number	The serial number of the component. Click this to access the Battery Summary, Sensor Summary, Wireless Module Summary, or Cylinder Summary page for the selected row. Note: The serial numbers are empty for *Fresh Air* cylinder entries.
Equipment SN	The serial number of the instrument/docking station, and gateways to which the component belongs. Click this to access the Equipment Summary page for the selected row.
Type	The type of component.
Equipment Group	In iNet Hosted accounts, this is the name of the Equipment Group. A tooltip shows the location of the Equipment Group in the hierarchy, including parent/sub accounts.
Position	The position of the component in the equipment: e.g., gas Inlet, sensor positions, etc.
Part Number	The part number of the component.
Install Date	The install date/time of the component.
Setup Date	The setup date of the component.
Manufacture Date	The manufacture date of the component.
Account	Name of the account that the component is in.
Sensor Type	Type of the sensor.
Replacement Part Number	Replacement part number of the sensor.
Last Upload Date	The date when the data was uploaded.
Last Docked On	The serial number of the docking station that the component was docked on.

Component Summary

There are different types of component summaries depending upon the type of component.

Battery Summary

The battery summary provides the details of the general information, installation history, and notes regarding the battery.

Figure 6.17 Battery summary

Each of the grids and their fields are explained in the table below.

Table 6.10 Battery summary fields

Field	Description
General Information	
Serial Number	The serial number of the battery.
Type	This shows the battery type.
Part Number	Display the part number of the battery.
Manufacturer	This shows the manufacturer of the battery, e.g., Industrial Scientific Corporation.
Install Date	This is the date when the docking station first detected the battery.
Operation Minutes	It shows how long the battery has been used in minutes (if available).
Firmware Version	The version of the battery firmware.
Install History	
Instrument SN Column	This is the serial number of the instrument where the battery was installed.
Instrument Type Column	This indicates the kind of instrument in which the battery was installed.
Install Date Column	This is the date when the battery was installed.
Uninstall Date Column	This shows the date when the battery was removed. If the battery is currently installed, it displays *Currently Installed.*
View Action column	Clicking on this link directs the user to the related instrument summary page. This link is particularly useful for exploring instances where the same battery may have been installed in different instruments in the past, providing the option to review the history of instruments where the sensor was previously installed.

Table 6.10 Battery summary fields

Field	Description
Note: Users cannot view data from Accounts or Equipment Groups for which they do not have permission.	
Notes	
Notes Entry	A note entry is displayed for each note entered, including the note's text, the date and time of its creation, and the user who created it.
Delete Link	Each note entry has a delete link. Clicking this link will delete the respective note. This will disappear if the battery is not connected to the account.
Notes Text Box	Allows the user to enter a note.
Add Button	Clicking it saves the note. This is not visible if the battery is not linked to the account.

Sensor Summary

The Sensor Summary provides the details of the general information, installation history, and notes regarding the sensor.
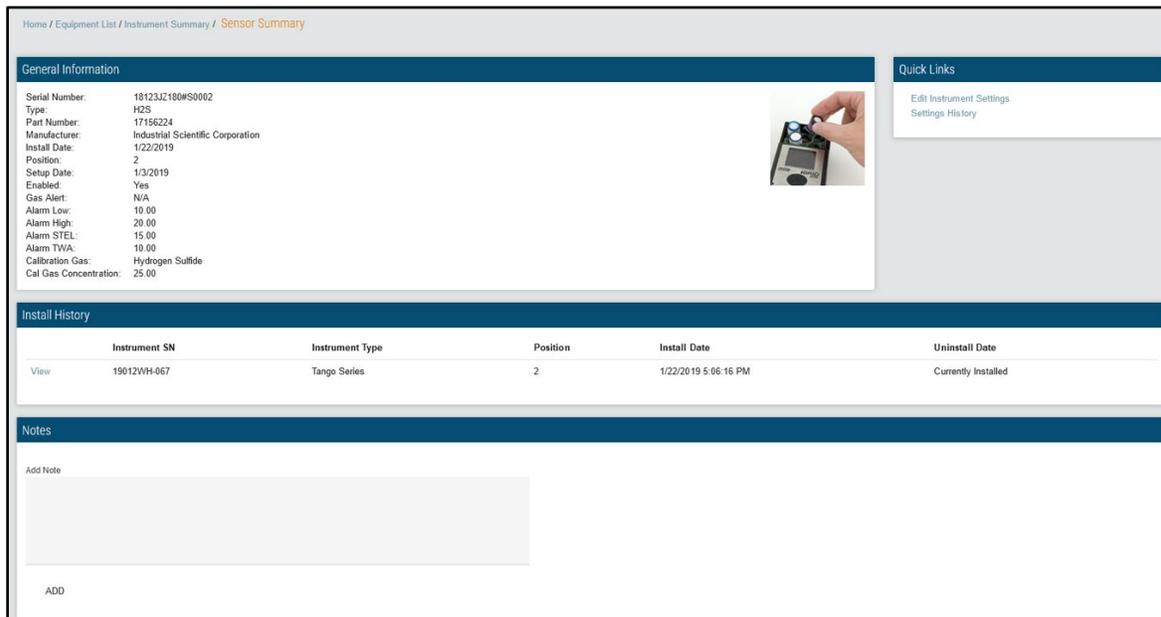
Figure 6.18 Sensor summary

Each of the grids and their fields are explained in the table below.

Table 6.11 Sensor summary fields

Field	Description
General Information	
Serial Number	This shows the serial number of the sensor.
Type	This indicates the type of sensor, for example, CL2, CO, or H2S.
Part Number	Shows the part number of the sensor
Manufacturer	This indicates the manufacturer of the sensor, e.g., Industrial Scientific Corp.

Table 6.11 Sensor summary fields

Field	Description
Install Date	This is the date when the sensor was installed.
Position	This is the numerical position of the sensor within the instrument.
Setup	This is the date when the sensor was manufactured.
Enabled	If the sensor is activated in the instrument, it shows *Yes*; otherwise, it shows *No*.
Gas Alert	It shows the gas reading that triggers a gas alert alarm. The units are in PPM.
Alarm Low	This indicates the gas reading that triggers a low alarm. The units are in PPM.
Alarm High	This represents the gas reading that activates a high alarm. The units are in PPM.
Alarm STEL	This level triggers an alarm for Short-Term Exposure Limit (STEL). The units are in PPM. Sensors not supporting STEL, such as H2, LEL, and O2, display *N/A*.
Alarm TWA	This is the level that triggers an alarm for Time Weighted Average (TWA). The units are in PPM. Sensors not supporting TWA, such as H2, LEL, and O2, display *N/A*.
Calibration Gas	This specifies the calibration gas type required for calibrating the sensor.
Gas Concentration	This indicates the gas concentration required for calibrating the sensor. The units are in PPM.

Install History

Field	Description
Instrument SN column	This is the serial number of the instrument where the sensor was installed.
Instrument Type Column	This indicates the type of instrument in which the sensor was installed.
Position column	This represents the numerical position of the sensor within the instrument.
Install Date column	This is the date when the sensor was installed.
Uninstall Date column	This displays the date when the sensor was uninstalled. If it is currently installed, it shows *Currently Installed*.
View Action column	Clicking on this link directs the user to the related instrument summary page. *Note*: This link is particularly useful for exploring instances where the same sensor may have been installed in different instruments in the past, providing the option to review the history of instruments where the sensor was previously installed.

Notes

Field	Description
Notes Entry	Each note entry shows the note's text, the date and time it was created, and the user who made the note.
Delete Link	Each note entry has a delete link. Clicking this link will delete the note. However, this link is not visible if the sensor is not associated with the account.
Notes Text Box	This enables the user to input a note. However, it is not visible if the sensor is not associated with the account.
Add button	Clicking this saves the note. However, it is not visible if the sensor is not associated with the account.

Sensor Settings History

The sensor settings history page provides the user with sensor information and the history of settings on the sensor.
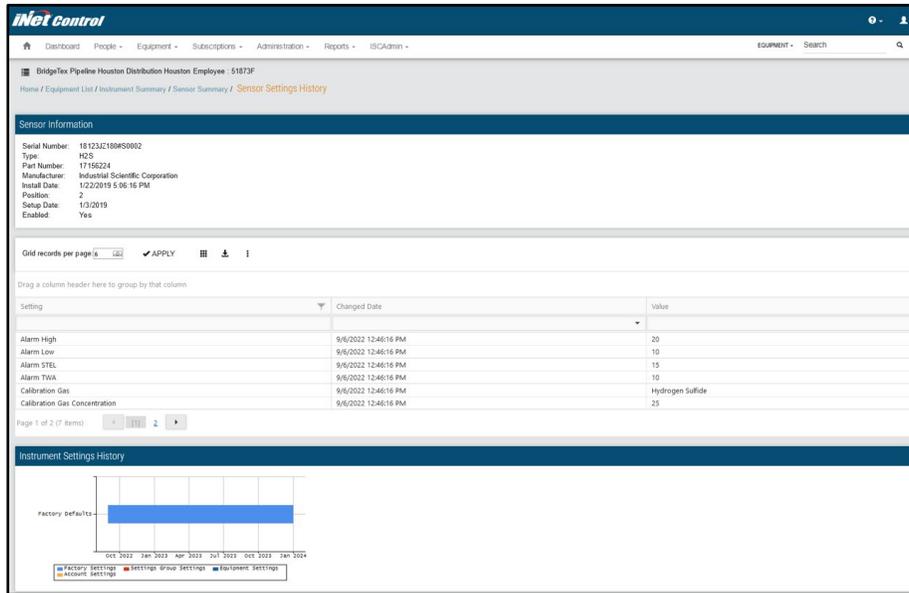
Figure 6.19 Sensor settings history

The fields on the sensor history page are explained in the table below.

Table 6.12 Sensor settings history fields

Field	Description
Sensor Information	
Serial Number	This indicates the serial number of the sensor.
Type	This shows the sensor type, e.g., CL2, and CO.
Part Number	Shows the part number of the sensor.
Manufacturer	This shows the manufacturer of the sensor, e.g., Industrial Scientific Corp.
Install Date	This displays the date that the sensor was installed.
Position	It is a numerical position of the instrument.
Setup Date	This indicates the date on which the sensor was manufactured.
Enabled	If the sensor is enabled within the instrument, then yes; otherwise, no.
Alarm Setting	
Setting	This shows the type of alarm, Calibration Gas, and Calibration gas Concentration settings.
Changed date	The date when the setting was last changed.
Value	This column displays the alarm type value and Calibration Gas Concentration. It also indicates the names of the Calibration Gases used for calibration.
Graph Features	
Graph X-Axis	The date and time of the settings graph are shown along the x-axis.
Graph Y-Axis	The type of settings, such as Factory Defaults, Equipment Level, Account Defaults, and Settings Group Level, is displayed along the y-axis.
Legend	The Legend explains the colors and their respective meanings for the different types of bars.

Cylinder Summary

The Cylinder Summary details the general information, installation history, and notes.
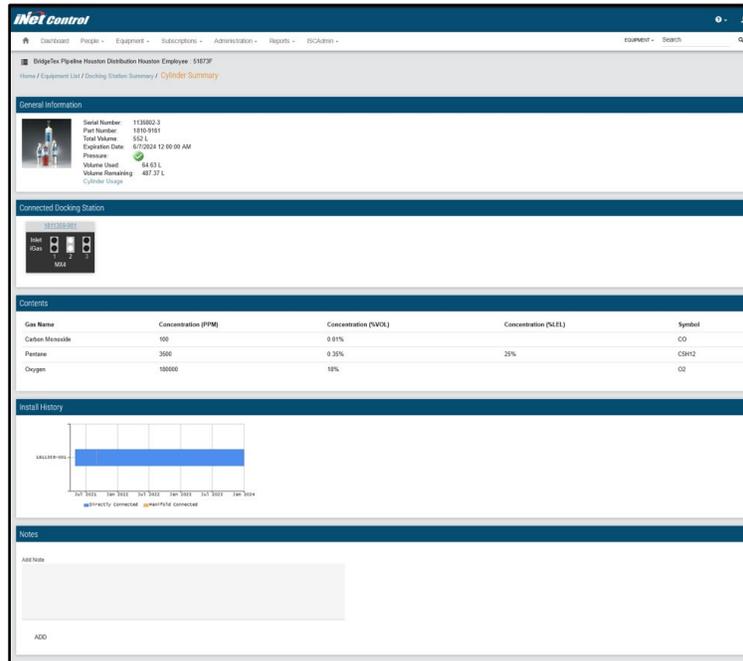
Figure 6.20 Cylinder summary

The fields of cylinder summary are explained below.

Figure 6.21 Cylinder summary fields

Field	Description
General Information	
Serial Number	Indicating the serial number of the cylinder.
Part Number	This shows the part number of the cylinder.
Total Volume	This field displays the total volume of the specific cylinder.
Expiration Date	This indicates the expiration date of the cylinder. If the cylinder is expired, an expired image will be shown next to the expiration date.
Pressure	An icon representing the pressure is shown, and the tooltip associated with the icon explains. However, this feature is hidden if the cylinder is not associated with the account.
Volume Used	This indicates the approximate amount of the cylinder that has been used, measured in liters.
Volume Remaining	This represents the approximate remaining content of the cylinder, measured in liters.
Cylinder Usage	Takes the user to the cylinder usage page
Connected Docking Station	
Serial Number	The serial number of the docking station is provided as a clickable link, directing the user to the Docking Station Summary page.
Connections Display	This section visually represents the ports on the back of the docking station. Depending on the docking station's configuration, it includes three or six circles for gas inlets and for iGas ports. The order of the circles mimics the physical layout of the inlets on the back of the docking station. If the Inlet circle is white instead of black, it indicates the inlet that the cylinder is configured to use.
Equipment Type	This displays the type of docking station, such as MX4, etc.
Contents	
Gas Name	This Column indicates the name of the gas.
Concentration (PPM)	This represents the concentration of the gas in PPM.
Concentration (%VOL)	This tells the concentration of the gas measurements in percent volume.
Concentration (%LEL)	The Concentration (%LEL) column displays the gas concentration in %LEL. The column is left blank if this information is irrelevant to the gas.
Symbol	The symbol column represents the gas by its symbol (e.g., CO, H2S, O2, etc.).
Install History	
Y-Axis	Along the Y-Axis, the serial number of the docking station to which the cylinder is connected is displayed. The Serial Number is also a clickable link that leads to the Docking Station Summary page.
X-Axis	Along the X-Axis, the install history is represented based on the date range.
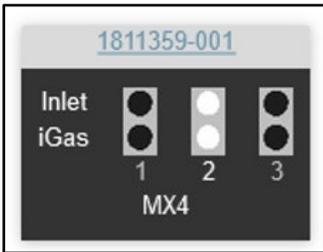
Figure 6.21 Cylinder summary fields

Field	Description
Bars	Bars illustrate the date range during which the cylinder was connected to the docking station.
Legend	The Legend explains the colors and their respective meanings for the different types of bars. Two distinct colors of bars are used: one for direct connections (or manual configuration in DS2/DSX-L) and another for manifold connections (as configured in iNet Control).
Notes	
Notes Entry	Each note entry is presented, featuring the note's text, the date and time of creation, and the user who authored the note.
Delete Link	For each note entry, there is a delete link. Clicking this link will delete the respective note. However, this feature is hidden if the cylinder is not associated with the account.
Notes Text Box	The Notes Text Box enables the user to input a note. However, this feature is hidden if the cylinder is not associated with the account.
Add Button	Clicking the Add button saves the note. However, this feature is hidden if the cylinder is not associated with the account.

Wireless Module Summary

The wireless module summary page provides information such as serial number, installation date, and general information about the module.
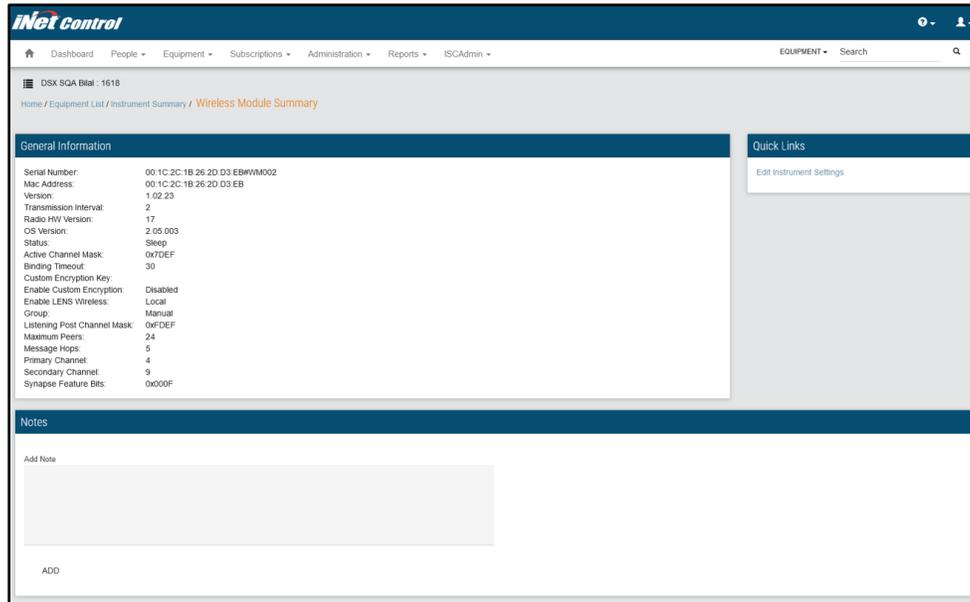
Figure 6.22 Wireless module summary

The table below briefly describes the fields on the wireless module page.

Table 6.13 Wireless module summary fields

Field	Description

General Information

Serial Number	Shows the Serial Number of the wireless modules.
Mac Address	This indicates the Mac address of the module.
Version	This field displays the firmware version number of the modules.
Transmission Interval	This tells communication intervals in seconds.
Radio HW Version	Indicates the radio hardware version of the wireless module.
OS Version	This shows the OS version of the module.
Status	This field tells about the module's status, e.g., whether it is active, deactivated, or deep s*leep*.
Active Channel Mask	The mask specifies which active channels are allowed or not for active wireless frequency hopping. Each bit represents one channel (16 total bits: channels 0 to 15).
Binding Timeout	This parameter determines if the instrument establishes a LENS connection using NFC within 30 seconds, which is the default setting, with a maximum binding timeout of 60 seconds; otherwise, the connection is lost.
Custom Encryption Key	It is commonly displayed as hexadecimal. It is a 128-bit (16-byte) key.
Enable LENS Wireless	This field tells us whether the module is enabled or disabled.
Group	The group tells us what LENS group the instrument is part of. It can be done manually or assigned from the instrument setting.
Listening Post Channel Mask	The mask specifies which active channels are allowed to be used in receiving data.
Maximum Peers	Wireless networks are limited to a maximum of 254 peers.
Message Hopes	Messages can hop between instruments in a given network when they are forwarded. When the hop count reaches zero, the message is no longer forwarded.
Primary Channel	The channel value in the wireless frequency band corresponds to a single bit in the active channel mask. The channel value ranges from 0 to 15.
Secondary Channel	This represents a specific channel in the wireless frequency band. The assigned value indicates the channel's position in the active channel mask, ranging from 0 to 15. If the frequency band value is not 255, it corresponds to a specific bit number in the active channel mask.
Synapse Feature Bits	The Feature Bits in a Synapse wireless module set up different configurations for the module, including adjustments to the power amplifier and antenna path.

Notes

Notes Entry	Every note entered has a displayed entry showing the note's text, creation date and time, and the user who made the note.
Delete Link	Each note entry has a delete link. Clicking this link removes the note.
Notes Text Box	Enables the user to input a note.
Add Button	The Add button saves the note.

Sim Card Summary

The SIM card summary shows the general information, options, installation history, and notes for the SIM card.
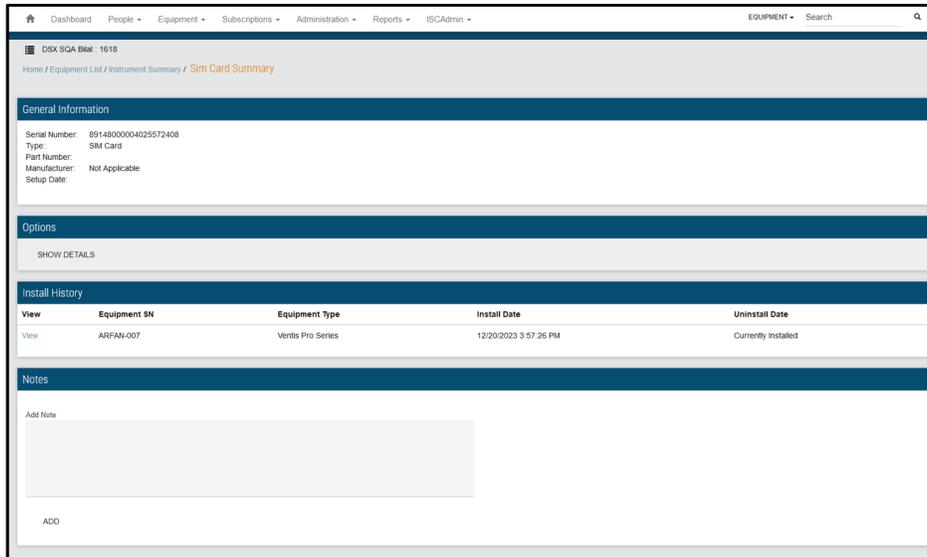
Figure 6.23 Sim card summary

The fields on the sim card summary page are explained below.

Table 6.14 Sim card summary fields

Field	Description
General Information	
Serial Number	This field indicates the serial number of the SIM card.
Type	Displays the type of the instruments, e.g., SIM card.
Part Number	It shows the part number of the SIM card. If there is none, the field is left blank.
Manufacture	This shows the manufacturer of the SIM card.
Setup Date	Displays the date on which the SIM card was setup. *Note:* Sometimes, this field may be blank.
Options	
Show Details	The section includes a *Show Details* link that expands the information on the SIM card IMEI, APN, etc. *Note:* Some SIM cards may not display additional details, however Ventis Pro typically provides these details.
Install History	
View	This column provides a *VIEW* link. The user is redirected to the corresponding instrument summary page by clicking on this link. This link is valuable for examining cases where the same SIM card might have been used in various instruments previously, allowing the user to review the history of instruments where the SIM card was installed before.
Equipment SN	This indicates the serial number of the equipment on which the SIM card was installed.
Equipment Type	This indicates what type of instrument the sim was installed on.
Install Date	This column displays the date and time the SIM card was installed on the equipment.
Uninstall Date	It indicates the date when the SIM card was taken out. If the SIM card is in place, it shows *Currently Installed.*
Notes	

Table 6.14 Sim card summary fields

Field	Description
Notes Entry	Every note entered has a displayed entry showing the note's text, creation date and time, and the user who made the note.
Delete Link	Each note entry has a delete link. Clicking this link removes the note.
Notes Text Box	Enables the user to input a note.
Add Button	The *Add* button saves the note.

Custom Equipment Properties

Custom equipment properties allow the user to add custom properties. They can be shown in Quick Assign and Live monitoring, depending on how they are configured.
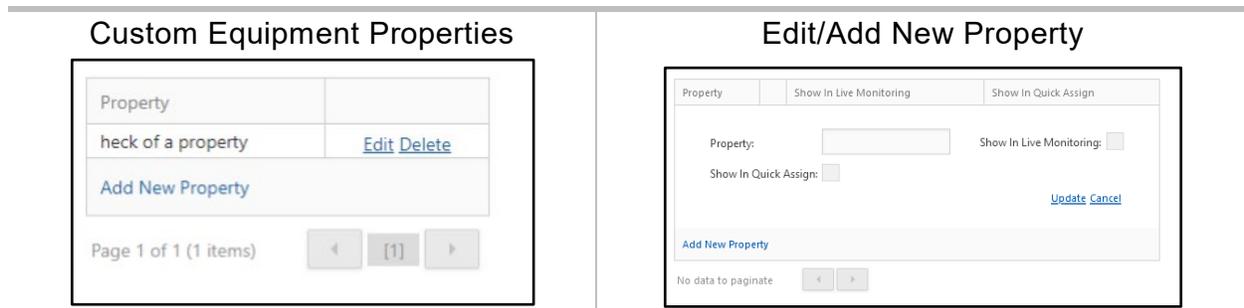
Figure 6.24 Custom equipment properties

Adding a new property expands the Custom equipment properties list; the fields are explained below.

Table 6.15 Custom equipment properties fields

Field	Description
Edit	Clicking Edit allows the user to edit the property
Delete	Clicking Delete, deletes the property.
Property	Name of the custom property added by users.
Show in Live Monitoring	This checkbox allows the user to show this property in Live Monitoring.
Show in Quick Assign	This checkbox allows the user to show this property in Quick Assign.
Update	This field adds the new property to the custom properties list.
Cancel	Clicking Cancel discards the fields, and the panel is closed.

Event Schedule

The event schedule page shows the existing event schedules for schedulable global, special event and docking station events. These can be bump tests, data log downloads, calibration, diagnostics, etc.

Figure 6.25 Global and special events schedule list

The fields available for global and special event schedules are explained below.

Table 6.16 Event schedule list fields

Field	Description
Print	The Event Schedule page has a print icon button on it that opens a printer-friendly Event. Schedule Report.
+Add/Edit	Clicking +Add/Edit opens up the Edit Global and Special Event Schedule for the selected event schedule. *Note: +Add feature is visible only for special events.*
Delete	Clicking Delete, prompts the user to confirm the deletion and then deletes the selected event schedule.
Applies to	This column shows if the event applies to an Instrument or Docking Station.
Event	The type of event. The possible events are not limited to the ones shown in the figure.
Occurrence	The frequency of occurrence of this event if (Run as scheduled) is selected. If not, it is set to *Only when forced* in red bold text.
Edited by	The user that last edited this event.
Edit date	This shows the date on which the event was last edited.
Scheduled	Displays *Yes* if Run as scheduled is selected. Displays *No* (in bold red text) if Only run when forced is selected.
Name	This displays the username assigned by the user during special event scheduling.
Type	This indicates the type of event selected by users during special event scheduling, such as Diagnostics.

Edit Global and Special Event Schedule

The edit global event schedule can be opened for any event by clicking the edit button in the event row.

Figure 6.26 Edit global event

The fields available are explained below.

Table 6.17 Edit global and special event fields

Field	Description
Event type	The type of global event being edited.
Applies to	The equipment type (instrument/docking station).
Applies To drop down	A drop-down contains the following items: • All Types • All other iNet Hosted Docking Station Compatible Equipment Types in alphabetical order.
When would you like to run this event?	Run as scheduled: If set to true, the event will be run automatically per the schedule. Only run when forced: Setting this to true, the scheduled interval is ignored, and the event will be run only when forced by the user through iNet Control or the docking station keypad.
Effective Date	The schedule's start date applies to any schedule option selected except On Docking.
Run Time	This field displays the run time of the schedule.
Schedule	All scheduled events trigger at the respective time in the docking station's time zone.
On Docking	By selecting the *On-Docking* checkbox, the schedule will execute the event each time an instrument is docked. Choosing *None* signifies that there is no recurring schedule based on time or calendar events.
Ok	Saves the currently displayed schedule and returns the user to the Event Schedules List.

89

Table 6.17 Edit global and special event fields

Field	Description
Cancel	Cancel changes made to the currently selected schedule.

Event List

This page shows all events (except for the *ERROR* event) for everything in the account, events for a single instrument, events for multiple instruments, events for a single docking station, or events for multiple docking stations, depending on how the user navigates to it.

When the user navigates to the Event List from the Instrument Summary or Docking Station Summary page, the equipment type and Serial number are displayed in large text above the Grid Options, as shown below.

Figure 6.27 Event list

The files of the event list are explained below;

Figure 6.28 Event list field

Field	Description
▄▄▄	Click three dots to access the Event Details – Calibration/Bump Test Details page, depending on the event. This link is only shown for Bump Tests, Calibration, and Diagnostic Events.
Serial Number	The serial number of the instrument/docking station.
Equipment Type	This field indicates the type of instrument or docking station (Ventis Pro5, MX6 iBrid, etc.).
Equipment Category	This field shows the equipment type (instrument or docking station).
Reason	The reason the event was run (*Manual, Scheduled, Unscheduled, Forced, Automatic*).
Failure Reason	This shows the reason why the failure occurred. *Note:* This displays the reason only if one is provided; otherwise, it will be blank.
Equipment Group	This field shows the equipment group at the time of the event.
Activity	This field shows the type of event: Bump, Calibration, etc.
Status	This indicates the instrument's status (at the time of the event).
User	This shows the instrument's active or assigned user (at the time of the event).
Time	This shows the date/time of the event.
Result	The result of the event: *Pass, Fail, Marginal,* or *Aborted*.

Figure 6.28 Event list field

Field	Description
Docking Station	The docking station SN that the instrument was docked on when the event occurred. If the event was a Manual Bump/Calibration, the word *Instrument* will be shown instead.
Duration	This is the duration of the event in the format of *1d 2h 3m 4s*. It applies only to Bump and Calibration events.
Account	The account the event was logged in.

Certificate Bulk Operation

Certificate bulk operation is used to export, print, or email multiple bump or calibration certificates simultaneously. Users can access this page by clicking the menu (⋮) icon located above the grid on the Event List page.

Figure 6.29 Certificate bulk operation

The columns and their details on the Certificate bulk operation page are explained below;

Table 6.18 Certificate bulk operation fields

Field	Description
Serial Number	The serial number of the instrument/docking station (Link to respective Summary Page).
Equipment Type	The type of instrument (Ventis Pro5, MX6 iBrid, etc.) or docking station.
Equipment Group	This shows the equipment group at the time of the event.
Activity	This indicates the type of event: Bump or Calibration.
Status	The instrument's status (at the time of the event)
User	The instrument's active or assigned user (at the time of the event)
Time	This shows the date/time of the event.
Result	The result of the event: *Pass, Fail, Marginal,* or *Aborted*.
Docking Station	The docking station SN that the instrument was docked on when the event occurred. If the event was a Manual Bump/Calibration *Instrument, it* will be shown instead.
Duration	This is the duration of the event in the format of *1d 2h 3m 4s*.

Settings Groups

The settings group contains the custom setting and any setting created for a specific instrument. The following are the nodes in this level;

- GasBadge Pro
- MX4
- Ventis Pro Series
- MX6 iBrid
- Tango Series
- SafeCore Module
- Docking Station
- RGX Gateway
- TGX Gateway

All custom Settings Groups fall under this node. If the factory default has been edited, it says *Account Defaults*; otherwise, it says *Factory Defaults*. Clicking Edit on a node takes the user to the Add/Edit Settings Group page. Clicking Assign on a node takes the user to the Assign Equipment to Settings Group page. Clicking Reset to Factory Defaults will reset the Account Defaults to the Factory Defaults. Clicking the Add Settings Group button takes the user to the Add/Edit Settings Group page.

Name			Last Edited Date	Last Edited By
GasBadge Plus				
Factory Defaults	Edit Assign			
Add Settings Group				
GasBadge Pro				
Factory Defaults	Edit Assign			
Add Settings Group				
MX4				
Factory Defaults	Edit Assign			
Add Settings Group				
Ventis Pro Series				
Factory Defaults	Edit Assign			
Add Settings Group				
MX6 iBrid				
Factory Defaults	Edit Assign			
Add Settings Group				
Tango Series				
Factory Defaults	Edit Assign			
Add Settings Group				
SafeCore Module				
▼ Account Defaults	Edit Assign Delete Copy to Account		10/13/2022 12:07:43 PM	PITNET\inetadmin
Add Settings Group				
NMS_settings	Edit Assign Delete Copy to Account		9/12/2023 3:28:06 PM	WinLogin\nsteward@indsci.com
Docking Station				
Factory Defaults	Edit Assign			
RGX				
▼ Factory Defaults	Edit Assign			
Add Settings Group				
GPS 1 Minute Interval	Edit Assign Delete Copy to Account		7/26/2022 11:22:53 AM	WinLogin\ggrega
GPS 15 Minute Interval	Edit Assign Delete Copy to Account		7/26/2022 11:22:17 AM	WinLogin\ggrega
NMS_settings	Edit Assign Delete Copy to Account		3/15/2022 2:13:53 PM	WinLogin\nsteward
TGX Gateway				
Factory Defaults	Edit Assign			
Add Settings Group				

Figure 6.30 Settings group

Add/Edit Settings Group

The Add/Edit Settings Group in iNet allows users to create or edit an existing setting group. The settings group is always displayed, showing settings specific to the type of equipment node (Ventis Pro5, MX6 iBrid, etc.) selected on the settings group page.

Note: Some Add/Edit Settings Group fields might not be available for the selected setting group.

The fields are explained in the Appendix – B.

Assign Equipment to Settings Group.

Assign equipment to the setting group is used to assign the equipment to the selected settings group. The user is directed to this page when they click the Assign link for any settings group. For each type of settings group (GasBadge Pro, MX4 - Ventis, Ventis Pro, MX6 iBrid, Tango series, SafeCore module, Docking station, RGX Gateway, and TGX Gateway), the user can assign the settings to each instrument based on their serial number.

Figure 6.31 Assign equipment

The fields of assign equipment are explained in the table below.

Table 6.19 Assign equipment fields.

Column	Description
General Information	
Selected Settings Group	Displays the selected settings group
Equipment List	
Unselect All Records On Page	When clicked, all records on the current page are unselected.
Select All Records On Page	When clicked, all records on the current page are selected.
Checkbox	A checkbox indicating if the equipment/equipment group is in the selected settings group
SN	Serial number of the instrument.

Table 6.19 Assign equipment fields.

Column	Description
Equipment Group	The name of the current group. The icon (⊞) can be clicked to show the group's location in the hierarchy.
Settings Group	The settings group the record is currently assigned to.
User	Either the active or assigned user of the equipment, whichever is more recent.
Status	The status of the instrument.
Buttons	
OK	Clicking the OK button saves the changes made to this settings group and returns the user to the Manage Settings Groups page.
Cancel	Discards the changes made to this Settings Group and returns the user to the Manage Settings Groups page.

Pending Settings

The pending settings page shows us if any setting, user, site, or status in pending assignment on any instrument.
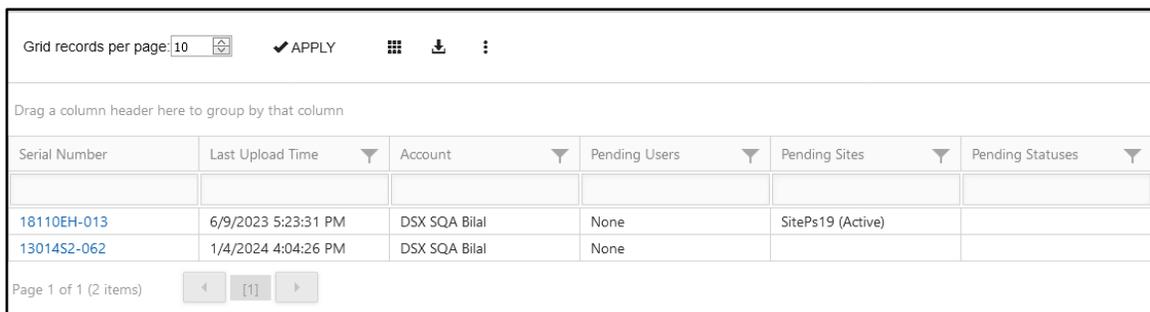
Figure 6.32 Pending settings

The columns of the grid are explained below.

Table 6.20 Pending settings columns

Column	Description
Serial Number	The instrument Serial Number. Links to the Instrument Summary page.
Last Upload Time	Last upload time of the equipment.
Account	The account name of the equipment.
Pending Users	The pending user list shows the user waiting for assignment to the instrument.
Pending sites	The pending sites show the site waiting for assignment to the instrument.
Pending status	The pending status shows the status waiting for assignment to the instrument.

Activate New Equipment

Activate new equipment is used to register and activate new equipment (docking station or instrument) on iNet account or account group.

Figure 6.33 Activate new equipment.

The fields on the Activate New Equipment page are explained below.

Table 6.21 Activate new equipment.

Field	Description
Equipment Serial Number (S/N)	The serial number of the equipment being registered.
Activation Code	This information is typically found on the equipment's labels or an activation card.
Equipment group	For equipment group users, this dropdown shows a list of all equipment groups the user can access for that account.
OK	Suppose an incorrect serial number and activation code or a previously used serial number and activation code is entered. In that case, an error message states, *Either the Serial Number or Activation Code was incorrect. Try again*. If a valid code is entered, the Equipment is registered with the current account, and a message is shown to the user stating, *The Equipment has been successfully activated! Go to the Equipment List to view your new piece of Equipment.*
	The Equipment SN and Activation Codes are blanked out when the activation is successful.
Cancel	All data is discarded, and the user is returned to the Dashboard.

Alarm History

Alarm history gives us an overview of the alarms that occurred during instrument use due to the presence of gas or due to the instrument itself.

Note: If the instrument is relocated to a different account, alarms from the current account, whether data log or instrument alarms, will still be displayed on the alarm history page.

Figure 6.34 Alarm history

The fields of the alarm history page are explained in the table below.

Table 6.22 Alarm history fields

Field	Description
Select All Records	This button selects all the records.
Unselect All Records	The button unselects all the records.
Clear Selected Alarms	This button clears all the selected alarms.
Alarm Selection Check Box	Checking the checkbox selects the alarm row.
View Graph	A link Labeled View Graph directs the user to the Alarm Details for the specific alarm in the row.
Alarm Time	It displays the date and time when the alarm occurred.
Gas Code Description	Gas Code Description indicates the sensed gas.
Factor	Factor refers to the specific name of the combustible gas.
Alarm Types	The alarm type can be *high, low, STEL,* or *TWA*. Instrument alarm events include *high, low, Panic, Man down,* and *Proximity*.
User	The active or assigned user of the instrument is displayed during the alarm.
Site	It shows the assigned site of the instrument when the alarm happened.
Status	It indicates the status of the instrument during the alarm occurrence.
Equipment Group	The Equipment Group the instrument was assigned to when the alarm occurred.
Data log Recording Interval	Data log Recording Interval refers to the recording interval of the data log when the alarm occurs.
Data log Peak Reading	Data log Peak Reading represents the recorded data log peak reading for the detected gas.

96

Table 6.22 Alarm history fields

Field	Description
Average Reading	Average Reading is the mean of the data log measurements of the detected gas throughout the alarm.
Instrument Peak Reading	This field shows the highest recorded Reading during the instrument alarm event.
Units	This column indicates the units of the detected gas, i.e., ppm, %lel, or %vol.
Duration (seconds)	Alarm duration in seconds.
Instrument SN	This displays the instrument serial on which the alarm occurred.
Sensor SN	This displays the sensor serial on which the alarm occurred.
Account	This column shows the account name of the instrument.
Instrument Type	Instrument Type refers to the instrument name.
Acknowledge Notes	This column shows notes (up to 30 characters) entered by the user when acknowledging the alarm. If it is more than 30 characters, it is shortened with "*...*" but can be seen fully when exporting data. Note: Acknowledgment notes cannot be deleted.
Expected Alarm	The Expected Alarm column remains blank for unacknowledged alarms. It shows *Yes* or *No* if acknowledged based on whether the expected alarm was checked during clearance.
Cleared By	This column displays the name of the user who cleared the alarm.
Upload Time	Upload Time indicates the time when the alarm was uploaded from the instrument.
Origin	This field shows the origin of alarms: *Data log Alarm*, *Instrument Alarm*, or *Instrument/Data log Alarm*.
Employee ID	This column shows the employee ID of the user.

Alarm Details

The alarm details page provides details such as alarm description, alarm status, and instrument information for the alarm that occurred.
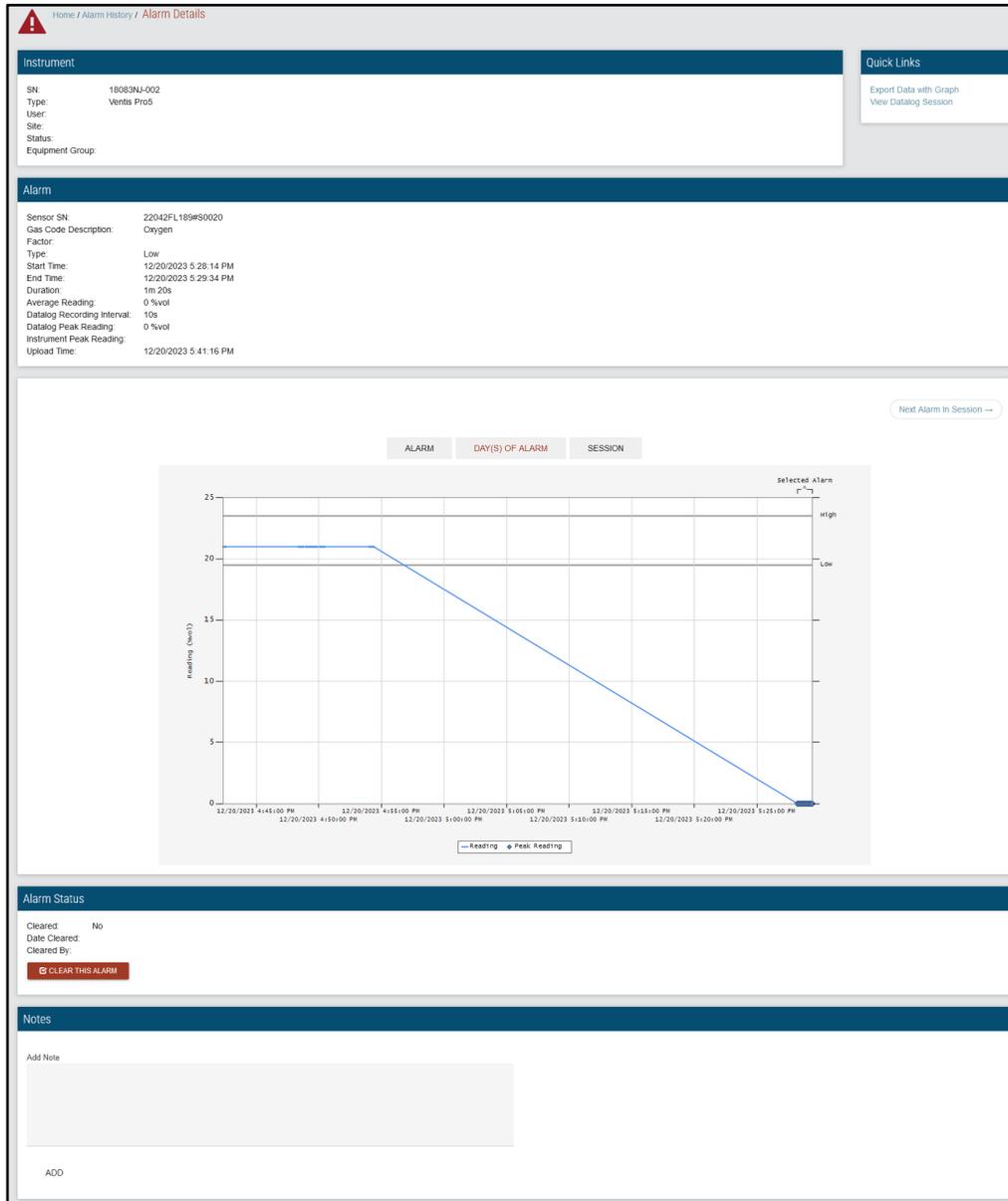
Figure 6.35 Alarm details

The fields on the alarm details are explained in the column below.

Table 6.23 Alarms details columns

Column	Description
Instrument	
SN	This field shows the instrument's serial number that triggered the displayed alarm.
Type	This field displays the type of the instrument which uploaded the alarm.
User	This field shows the active or assigned user associated with the displayed alarm.
Site	Indicates the site assigned to the instrument.

Table 6.23 Alarms details columns

Column	Description
Status	This field reflects the status of the instrument.
Equipment Group	This field displays the instrument's current Equipment Group.

Alarm

Column	Description
Sensor SN	The sensor's serial number is the one on which the alarm occurred.
Gas Code Description	This field indicates the gas type which caused the alarm.
Factor	This displays the gas detected by the LEL sensor.
Type	Indicates the displayed alarm's type (Low, High, STEL, TWA).
Start Time	This shows the start time of the alarm.
End Time	This shows the end time of the alarm.
Duration	This field indicates the duration of the alarm.
Average Reading	Average reading is the mean of the data log measurements of the detected gas throughout the alarm.
Data log Recording Interval	This indicates the interval for data log recording related to the alarm.
Data log Peak Reading	Data log Peak Reading represents the recorded data log peak reading for the detected gas.
Upload Time	This indicates the time when the alarm was uploaded from the instrument.

Graph

Column	Description
Next Alarm	Clicking this loads the next alarm details listed on the Alarm History page.
Previous Alarm	Clicking it loads the page with the alarm details of the previous alarm listed in the Alarm History.
Alarm Button	When clicked, the graph displays the alarm and a few readings before and after the alarm event if those readings are available.
Day(s) of Alarm Button	When you select the button, the graph reveals all readings during the alarm.
Session Button	When the button clicks, the graph displays all readings for the entire Data log Session.
Legend	The legend below the graph explains what each line on the graph represents.
X-Axis	The X-axis represents the date and time of the data.
Y-Axis	The Y-axis indicates the measurement units of the Reading, such as ppm, %LEL, or %Vol.

Alarm Status

Column	Description
Cleared	Shows the status of whether the alarm is cleared or not.
Date Cleared	Indicates the date on which the alarm was cleared.
Cleared By	This field shows the name of the user who cleared the alarm.
Clear This Alarm	Click this button to clear the alarm. The button appears only if the alarm is not cleared.

Notes

Column	Description
Note Entry	Each note entered is displayed separately, including the text, the date and time it was created, and the user who created it.
Delete Link	A delete link is shown for each note entry. Clicking the delete link will result in the deletion of the respective note.

Table 6.23 Alarms details columns

Column	Description
Notes Text Box	The Notes Text Box enables the user to input a note.
Add Button	The Add button saves the note entered in the Notes text box and displays it in the Notes section.

Wireless Group List

The wireless group list contains the instruments that can be part of the LENS wireless group. The figure shows the wireless group list.

Serial Number	Category	Type	Active	Settings Group	Last Upload Time	User	Bluetooth Monitoring	Enable LENS Wireless	Wireless Group
19112VX-006	Gateway	RGX Gateway	Active		10/5/2023 4:29 PM				J
1995ARS-111	Gateway	RGX Gateway	Active		12/21/2023 5:00 AM				B
1802022-002	Instrument	Ventis Pro5	Active		9/6/2023 1:48 PM		Off	Local	Manual
170400R-002	Instrument	Ventis Pro5	Active		9/6/2023 1:48 PM		Off	Local	Manual
16113LB-006	Instrument	Ventis Pro5	Active		8/25/2023 7:51 AM		Off	Local	Manual
2011172-019	Instrument	Ventis Pro5	Active		8/25/2023 7:49 AM		Off	Local	Manual
18083NH-011	Instrument	Ventis Pro5	Active		8/21/2023 11:32 AM		Off	Local	Manual
RGX1995	Gateway	RGX Gateway	Active		8/3/2023 8:10 AM				C
DEV2020-001	Gateway	RGX Gateway	Active		8/1/2023 4:33 AM				D
MOR1995	Gateway	RGX Gateway	Active		1/12/2024 2:02 PM				H

Page 1 of 9 (87 items)   ‹   [1]   2   3   4   5   6   7   8   9   ›

Figure 6.36 Wireless group list

Below is an explanation of the columns available for the wireless group list grid.

Table 6.24 Wireless group list fields

Column	Description
Serial Number	Clicking on the instrument's serial number will take you to the Instrument summary page.
Category	Equipment category refers to the type, such as Instrument, Accessory, Gateway, or Docking Station.
Type	The type column indicates the equipment's type, like RGX Gateway Ventis Pro5.
Equipment Group	This column indicates the Equipment Group name and a tooltip shows where the Equipment Group is in the hierarchy, including parent and sub-accounts.
Last upload time	The Last Upload Time column shows when the equipment data was last uploaded.
User	The link leads to the Person Summary page of the user who is either currently active or most recently assigned to the instrument.
Bluetooth Monitoring	This feature is only valid for Ventis Pro5 and allows the user to send data to iNet using iNet Now Sync. If the feature is in use, Bluetooth monitoring is *On;* otherwise, it is *Off.*
Settings Group	This column shows the setting groups assigned to the instrument.
Equipment Group	This column shows the equipment group the instrument is part of.
Account	The account shows iNet account this instrument is part of.
Enable LENS Wireless	This column shows the default setting for LENS Wireless, which can be set as local use, turned off, or set for both iNet Now and local usage.
Wireless Group	The Wireless Group column shows LENS groups labeled from A to J, or manual.

Quick Assign

The quick assign tab searches for equipment and assigns them to any user.
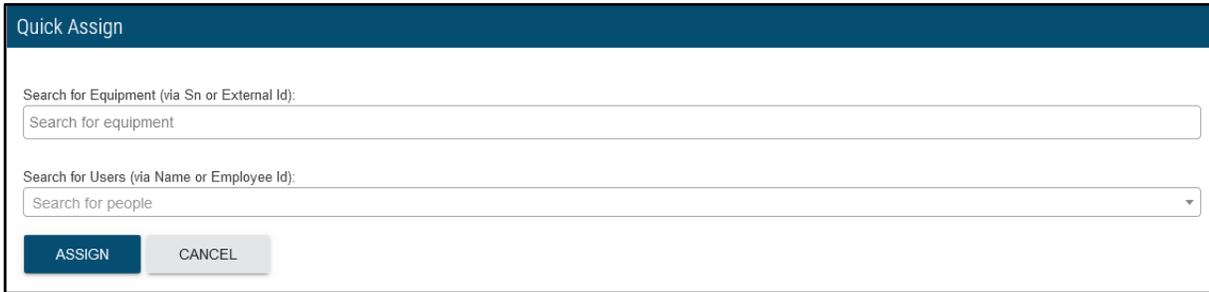
Figure 6.37 Quick assign

The fields are explained below.

Table 6.25 Quick assign fields

Field	Description
Search For Equipment	Enables the user to enter a serial number or external ID to search for equipment.
Search For Users	You can search for users in the context(s) of the logged-in user by entering the user name or employee ID here.
Assign Button	By clicking the Assign button, it searches for a serial number entered into the equipment SN input. If a valid and accessible equipment serial number is entered, the user is assigned to the equipment. In iNet accounts, the active user is also set, and a success message appears. Otherwise, an error message is shown.
Cancel Button	The cancel button closes the prompt without validating or saving.

iNet Exchange

iNet Exchange is a subscription service that automatically notifies users that gas monitors must be evaluated for replacement before the user even knows there is a problem. iNet Exchange is available within the iNet Control application.
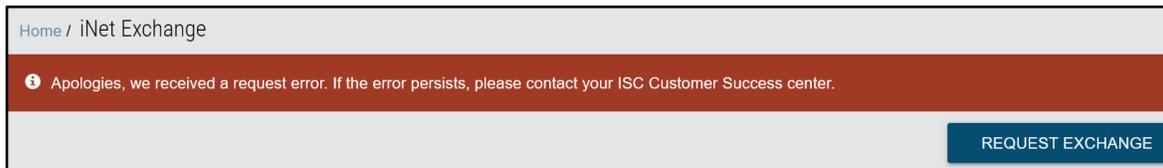
Figure 6.38 iNet Exchange

The iNet Exchange page displays any pending exchange requests. You can request a new exchange by clicking the request exchange button. It opens up a pop-up, as shown.

Figure 6.39 iNet Exchange request

To initiate an exchange request, you need to follow these steps carefully:

- Select the Serial Number: Choose the specific serial number of the instrument or component you wish to exchange. Common reasons for exchange include failures, errors, or damage.
- Provide Damage Description: Next, enter a detailed description of the damage or issue encountered. If possible, attach relevant files that display the problem.
- Account Details: Note that certain information, such as the account details, shipping address, and the person making the request, is automatically set by iNet account and cannot be modified.
- Submit Your Request: Once you have completed the above steps, click the *Request Exchange* button to create your formal request.

Industrial Scientific will promptly review and process your exchange.

Interactive Device Placement

Ensuring gas monitors are in the right spots is important for workplace safety. The Interactive Device Placement tool helps Safety Managers plan where to put monitors around their facility. It is a key part of your safety plan, making it easier to plan for gas detection.

Overview

Total number of equipment deployed on the map

Edit device placement

Map

Map Filters
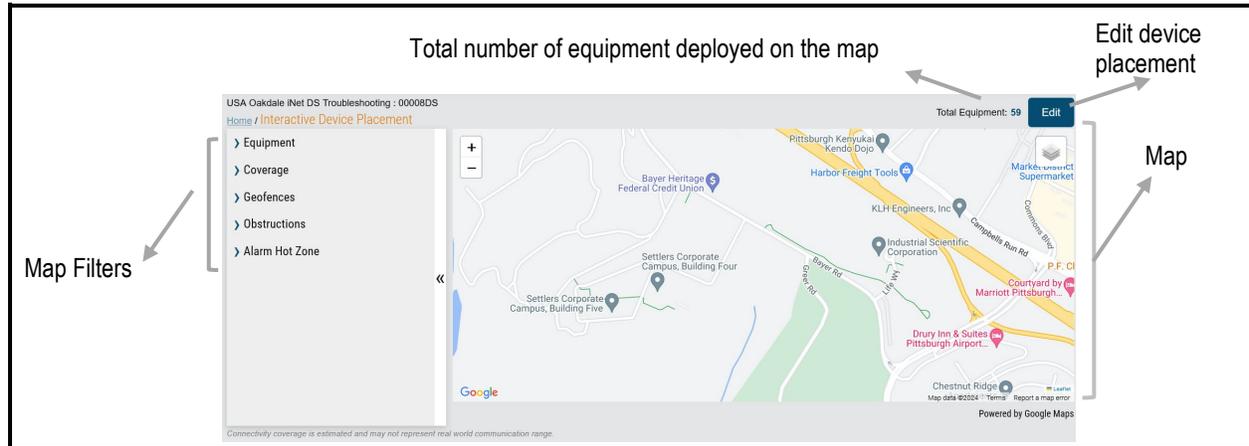
Map
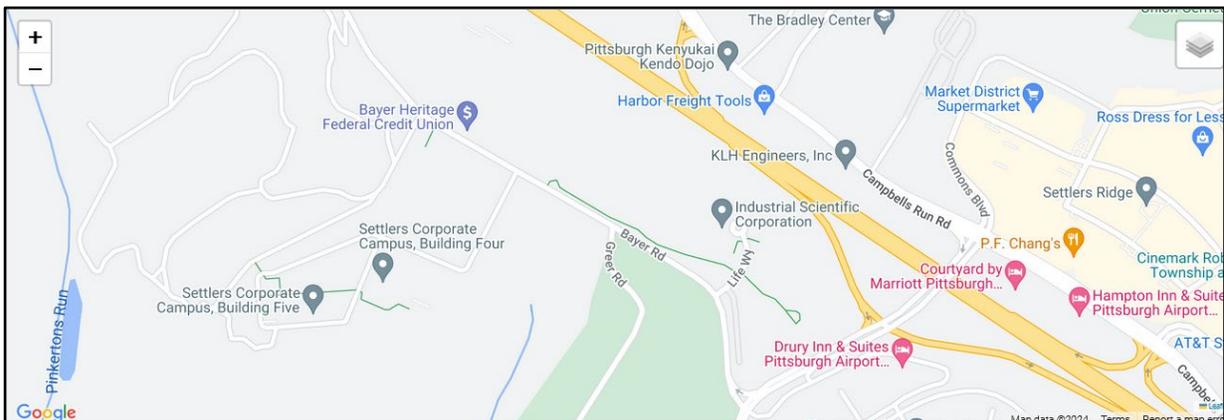
By holding, right click on the mouse, you can move around to interact with the map.

 You can select a satellite or a standard map by clicking on the corresponding icon () at the right corner of the map.
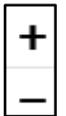
 Users can zoom in on the map by clicking the plus sign icon and zoom out by clicking the minus icon, both located in the left corner of the map or using the mouse scroll.

Equipment
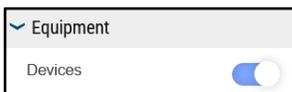
When you trigger the device toggle switch within the equipment filter, it will display the locations of devices on the map.
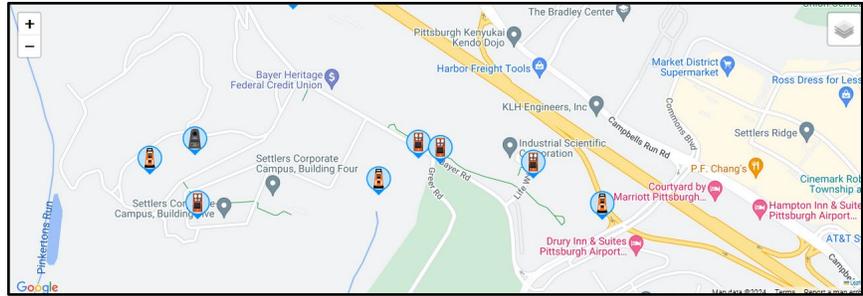
Edit   To place equipment, click the Edit button it will open the equipment placement menu.

 Ventis Pro5

 Area Monitor (Radius BZ1)

 Charger

 Docking Station

 RGX Gateway

Select the equipment that you want placed. Then click on the desired location on the map to position it.

 Beacon

 Calibration Gas Cylinder
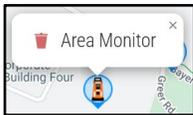
If you need to move or adjust the equipment, delete it first and then replace it by selecting the icon from the panel again. For iAssign Beacon you can adjust the range for the devices by clicking on the equipment and selecting the desired range in meters from the dropdown menu.

Save   Clicking the save button will save the newly placed devices on the map.

Cancel   The cancel button discards the changes made on the map.

Connectivity
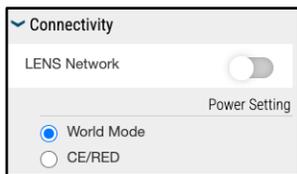
You can enable the LENs or Bluetooth coverage by clikcing the toggle switch. The connectivity range is then displayed on the map.
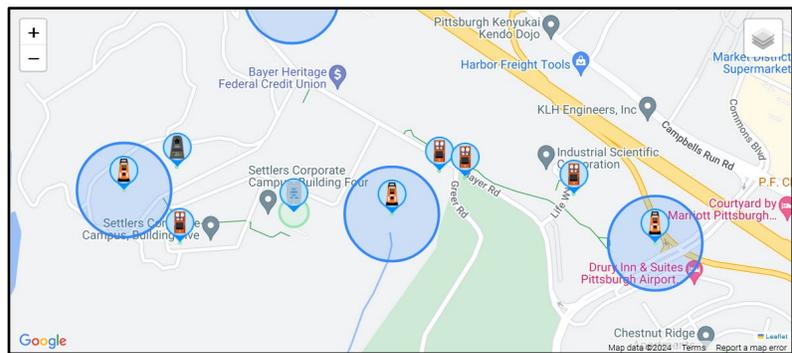
There are two power settings options available.
• World Mode
• CE/RED

You can choose either option by checking the checkbox.The lens coverage depends upon the power mode selected. The Appendix - E tells the range guidelines to maintain the LENS wireless connections.

Note: Connectivity coverage is estimated and may not represent real world communication range.

Geaofences
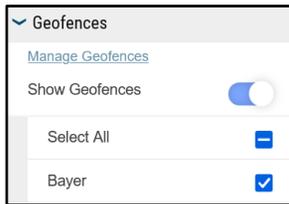
You can activate geofences around your site. To enable geofencing, slide the toggle switch. You can add new geofences by clicking *Manage Geofences* (see Geofence).

Note: iNet Now customers have access to pre-existing geofences
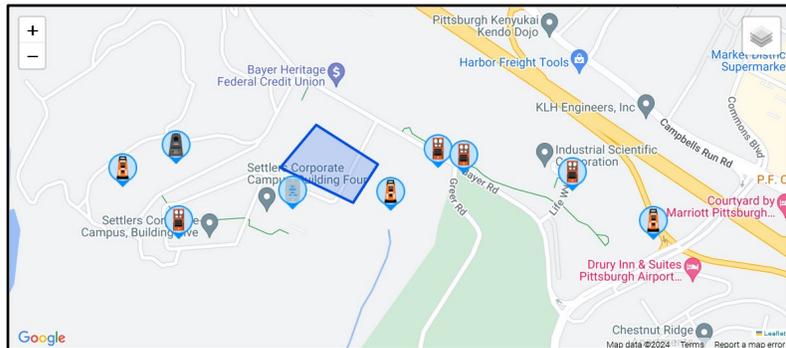
Obstructions

Obstructions are used to identify any place that might affect the coverage or someplace where deploying a monitor or gateway is not feasible.
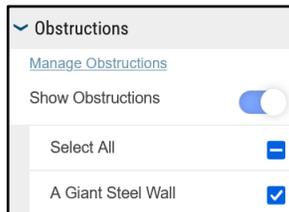
To view the obstructions, click the Show Obstructions toggle switch. This displays the obstructions on the Map. You can add new obstructions by clicking Manage Geofences (see Obstructions).

Alarm Hot Zone
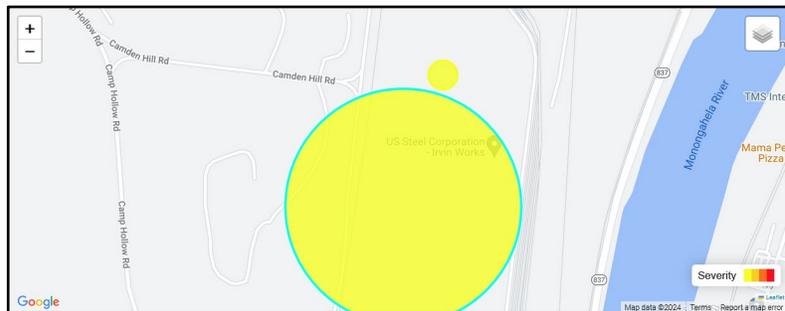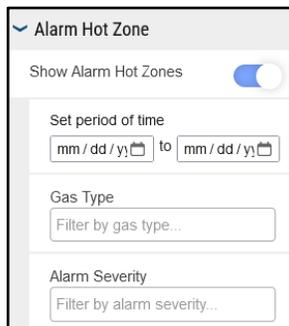
To view alarms, click the toggle switch. The selected places will be marked with circles colored according to the severity of the alarms. Hovering your mouse over a circle will display the location's name.

Note: Before utilizing the Alarm Hot Zones on the Interactive Device Placement page, ensure that alarms are associated with a Geofence. See Alarm History Page for further details.

Set Period of Time   Select dates from the calendar to specify the start and end of the alarm display period. This will show data from the chosen dates on the map. The date format is mm/dd/yyyy.

Note: Date ranges are limited to 90-day windows

Gas Type   Choose a specific gas from the provided list to display alarms corresponding to that gas type. You can select more than one gas. If no gas type is selected, alarms for all types of gases will be displayed.

Note: Only gases present in alarm data will be available for selection

Alarm Severity   Select a specific type of alarm from the list provided to view alarms associated with the corresponding gases. You can select one or more alarm types or leave it unselected to display data for all alarm types by default. The screen will be blank if no data for the selected alarm type is available. See below for the list of alarm types.

- Low Alarm
- High Alarm
- STEL Alarm
- TWA Alarm
- Critical Alarm
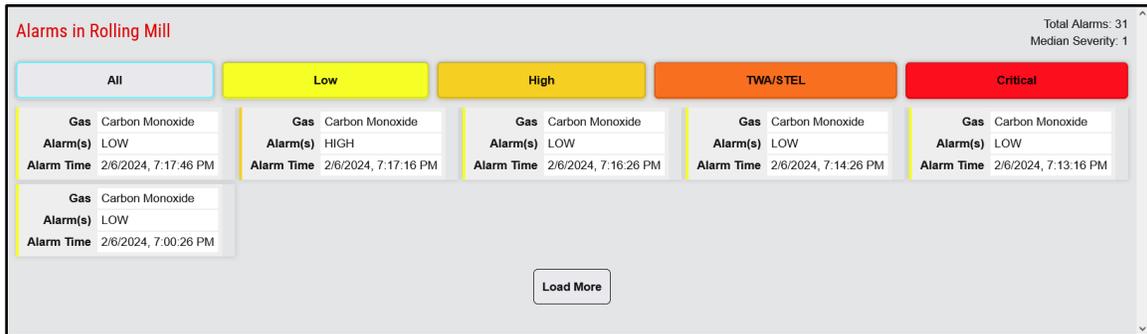
As you hover your cursor over a circle, the geofence name where your equipment is situated will appear. Clicking on this location name opens a report chart below the map. The chart displays the severity of alarms titled with the location name, the total number of alarms, and the median severity, positioned at the top right corner of the report.

Clicking the All button displays reports for all alarm types, including critical, low, high, and TWA/STEL.

Clicking the Low button will show low alarms.

Only the alarms displaying high alarm reports will appear when you press the High button.

When you press the TWA/STEL button, only the section showing TWA/STEL alarm reports will be visible

Only the alarms displaying critical alarm reports will appear when you press the Critical button.

If additional alarms are present in the reports, the Load More button will become visible; otherwise, it will not be displayed. Clicking this button will reveal more alarms within the report sections.

Ribbon color (based on the Type of Alarm)	**Gas** Carbon Monoxide → Gas Type
	Alarm(s) LOW
Alarm time	**Alarm Time** 2/6/2024, 7:17:46 PM → Alarm type

- **ID:** Display the ID number
- **Gas:** This shows the gas names such as carbon monoxide, hydrogen sulfide, sulfur dioxide, oxygen, or pentane
- **Alarm(s):** This field indicates the alarm types, either low, high, critical, or TWA/STEL
- **Alarm Time:** This field indicates the date and time of alarm occurrence.
- **Duration:** This shows the total duration of the occurrence of alarms in seconds
- **Peak Reading:** This indicates the maximum value of the alarms.
- **Average Reading:** This indicates the average value of the alarm.
- **Cleared:** This field shows the alarm's status, whether the alarm is cleared or not. If the alarm is cleared, its status is true.
- **Cleared By:** This displays the user ID who cleared the alarms.

ID	4125657702201
Gas	Carbon Monoxide
Alarm(s)	HIGH
Alarm Time	2/6/2024, 7:17:16 PM
Duration	30s
Peak Reading	95
Average Reading	91.7
Cleared	true
Cleared By	WinLogin\bday@indsci.com

Figure 6.40 Interactive device placement map

Subscription

Overview

Add Subscription

Overview

iNet Control application offers a real-time alert subscription. Real-time alerts are notifications that are sent to users via email or as SMS in real-time. They are useful for keeping track of important alerts.

Figure 7.1 Subscription page

Table 7.1 Subscription page columns

Column Header	Description
Action button column	The Action button column has no header. Each row contains a pencil and trashcan icon. Clicking the pencil opens the Add/Edit Real-Time Alert Subscription page in *edit mode.* Clicking the trashcan will delete the row.
Alerts type	The Alerts column contains the type of alert, such as Low Alarm, High Alarm, and Short-term Lost.
Subscribed to	The Subscribed to column contains the account for which the alert is subscribed.
Subscribers	The Subscribers column contains the person to whom the alert is sent.
Escalate to	The Escalate to column contains the person the alert is escalated to if it remains unacknowledged for too long.
Alerts	The Alert column contains the description and the text for the message.
Subscription method	The subscription method indicates how the alerts are sent to the subscriber. They can be through email or texts.

Add Subscription Page

Depending upon the account configuration, two types of subscriptions are available for the user. These are Alerts and Real-time Alerts. When configured, the real-time alerts send the alerts to the users as they occur and can be seen in the Real-Time Alerts on iNet Now.

Add Alert Subscription

What type of alert should we create?

Alert

What should we monitor

Account Group

Search for equipment group(s)
To monitor all instruments in the Account, leave blank

Whom should we notify?

Search for people

What type of alerts should we send?

☐ Accessory

☐ New accessory notification
☐ Accessory moved to a different account

☐ Account

☐ No uploads for this account
☐ New firmware is available for this equipment

☐ Cylinder

☐ Cylinder expired or close to expiring
☐ Cylinder expired or close to expiring - auto replenish
☐ Possible Cylinder Leak
☐ Empty cylinder
☐ Empty cylinder - auto replenish
☐ Low cylinder
☐ Low cylinder - auto replenish

☐ Docking Station

☐ Docking Station moved to a different account
☐ New docking station notification
☐ Docking Station upload overdue

☐ Equipment

☐ Lost equipment uploaded
☐ New equipment notification
☐ Equipment moved to a different account

☐ Instrument

☐ Sensor removed but not replaced
☐ An instrument alarm has occurred
☐ Instrument moved to a different account
☐ Instrument turned off while in alarm
☐ New instrument notification
☐ Use without bump test
☐ Use without calibration
☐ Invalid instrument date
☐ Instrument Settings Changed
☐ No sensors were detected in the instrument
☐ A critical alarm has occurred
☐ Access Code Changed
☐ Alarm turned off
☐ Calibration Gas Unavailable
☐ Datalog recording interval above recommended setting
☐ Gas Badge Error
☐ Instrument bump test overdue
☐ Instrument calibration overdue
☐ Instrument upload overdue
☐ MX8 Error
☐ Sensor alarm setting is above recommended value
☐ Sensor turned off
☐ Instrument Error
☐ Calibration - Redundant Sensor Failed
☐ Calibration - Sensor Failed
☐ Bump Test - Repeated Failure
☐ Calibration - Zero Fail
☐ Calibration - Gas Flow Inhibited
☐ Calibration - Troubleshooting Required
☐ Bump Test - Gas Flow Inhibited
☐ Bump Test - Sensor Failed
☐ Bump Test - Troubleshooting Required
☐ Low Battery
☐ Calibration - Low/Empty Cylinder Detected
☐ Bump Test - Low/Empty Cylinder Detected
☐ Calibration - Sensor Is Marginal

OK   CANCEL

Figure 7.2 Add subscription

The fields on add subscription are explained in the table below.

Table 7.2 Add subscription fields.

Field	Description
Add/Edit Alert Subscription	This page is a platform for adding or modifying Alerts or Real-Time Alert Subscriptions. Its display may vary depending on the context from which it was accessed.
Type of alert	The type of alert dropdown lets you select the type of alert that you want to create.
What should we monitor?	You can choose from different account and equipment groups to monitor when creating an alert.
Whom should we notify?	You can choose the dropdown menu from people to whom you want to send an alert. There is also an option to escalate the unacknowledged alerts to a different user.
What type of alert should we send?	You can customize the alerts you wish to send to the user. Opting for the header option will automatically include all the following alerts. Alternatively, you can manually select each alert according to your specific needs. You can select alerts from • Accessory • Account • Cylinder • Docking station • Equipment • Instrument You can select real-time alerts from • A warning occurred during live monitoring • Lost contact during live monitoring • An alarm occurred during live monitoring
OK, and the Cancel Button	To save the changes to an existing or new alert, click the OK button; if you can click cancel, all the unsaved changes will be lost, and you will be redirected to the subscription page.

Administration

Account Settings

Critical Alarm Configuration

Dashboard settings

Account Settings

General Information

General Information

Account Type:	Exchange
Account Expiration date:	11/15/2023
Automatically send replacement cylinder:	Yes

Figure 8.1 General information

Fields for the general information are given below;

Table 8.1 General information fields

Account type	The account type specifies the user's type of iNet Control account, such as Exchange shown in the screenshot.
Account Expiration date	This date refers to the date when an account service is set to expire. *Note:* This date may not align with the customer's contractual dates.
Automatically Send Replacement Cylinders	If this field is *Yes,* the account is setup to automatically receive replacement cylinders. If the field is *No,* the account will not receive replacement cylinders. For iNet Now Only accounts, this feature is hidden.

Quick Links

The quick links allow the user to Request Address Change and Request Auto Cylinder Replacement.

Figure 8.2 Quick links

Settings

The settings grid displays the account settings; the user can edit these settings directly by clicking on each field.

Note: Certain settings will alter functionality within iNet, while others will impact functionality with the DSX-i docking stations.

Figure 8.3 Settings

The fields of the Setting grid are explained below;

Table 8.2 Setting fields

Industry	The **Industry dropdown** allows customers to select their specific industry. This choice influences the display of industry averages on the Dashboard. Some options are available for industry.
	• Agriculture
	• Aerospace
	• Consulting Services
	• Business Services
	• Construction
	• Distributor/Reseller
	• Education (Schools & Universities)
	• Fire Services & First Responders
	• Government/Military (non-educational)
	• Insurance
	• Manufacturing (Chemicals, Food & Beverage, General, Pharmaceuticals)
	• Marine & Shipping
	• Metal Production (Steel, Non-Steel)
	• Mining (Coal, Metal/Non-Metal)
	• Oil & Gas (Exploration & Production, Refining, Pipeline)
	• Pulp & Paper Production
	• Power Generation (Fossil Fuels, Nuclear, Alternative)
	• Utilities (Electric, Gas, Water Treatment, Solid Waste, Telecommunications)
	• Other
	• Unknown (for Tech Service use only)
Time Zone	The Time Zone field allows users to select the time zone for their account. All reports generated for the account will use this time zone value. To keep data correctly timestamped in iNet, users should ensure their equipment's timestamps are accurate. iNet automatically adjusts the time on docking stations, and instruments' clocks are corrected when docked. Regularly docking instruments helps maintain accurate timestamps. *Note:* It is important to remember that instruments do not account for time zones.
Default Equipment Status	**Default Equipment Status** determines how new equipment added to the account behaves: **ACTIVE**: Equipment is shown on reports, alerts, and the dashboard. **DO NOT ALERT**: Equipment is not shown on reports, alerts, or the dashboard (hidden for iNet Now Only accounts)
Expired Cylinder Warning Days	Choose the number of days for cylinder warnings from the following options. • Default • 30 days • 60 days • 90 days
Sensor Settings	The **Sensor Settings** allow configuration for instruments with redundant sensors. Here are the details: **TangoTX1**: Users can turn on/off using one failed sensor. If enabled, the account's TX1 Single-Sensor mode is *Redundant mode.* **Ventis Pro**: Like TangoTX1, users can turn on/off using one failed sensor. If enabled, the account's Ventis Pro Single-Sensor mode is set to *Redundant mode.* **SafeCore Modules**: Users can turn on/off using one failed sensor. If enabled, the account's SafeCore Single-Sensor mode is set to *Redundant mode.* **Show Unavailable Gas for ClO₂ Sensors**: The system will now display information about unavailable gas for ClO2 sensors. Users can easily identify any gaps in sensor availability.

Table 8.2 Setting fields

	Warning on Dock for Missing Sensors: A warning will be shown on the dock when a sensor is missing compared to the last time it was docked. This helps users promptly address any sensor discrepancies.
Bump/Calibration Options	The **Bump/Calibration Options** section includes the following features:
	Include the *Performed By* signature line on certificates: When checked, this option adds the *Performed By* signature line to Bump and Calibration certificates.
	Include the *Received By* signature line on certificates: When checked, this option includes the *Received By* signature line on certificates.
	Auto-email certificates to: Users can turn this feature on or off using a checkbox. If enabled, the auto-email certificates field becomes mandatory. Users can enter email addresses directly or discover associated addresses from the account. A *Send Test Email* button allows users to verify email configuration. Invalid email addresses trigger an error message. This section is hidden for iNet Now Only accounts.
	Enable auto firmware upgrade: Users can turn on/off auto firmware upgrades for instruments and docking stations. The system automatically upgrades to the latest firmware.
	Pentane/Methane Cross-Sensitivity: After performing the calibration, conducting a Pentane/Methane Cross-Sensitivity Check is essential. This step ensures that the instrument responds accurately to pentane and methane gases. You can set the cross-sensitivity threshold on the application.
Alert setting	**Create overdue alerts:** This feature generates an overdue alert when instruments are not maintained within X days of their last maintenance. There are two columns for Bump Test and Calibration Intervals each with an Alert setting that is chosen by default. You can select any number between 1 and 365 for the Day Intervals. Once set, an alert will be displayed if bump or calibration is due.
	Create use without alert: You can adjust alerts for Use without bump test and Use without calibration in a grid layout. Each row in the grid includes settings for Bump Test and Calibration Intervals, along with an Alert setting, which is chosen by default. The grid starts with one row called Default Settings, applying these alert/report settings to all equipment types. You can set Day Intervals to any number between 1 and 365.
	Customized configuration: It shows a list of uploaded to this account, each with checkboxes. If you pick an equipment, it adds a new row. The new rows, named after the equipment code (like MX4, SafeCore Module, and Ventis Pro Series), have the same choices as the Default Settings row.
	Account Inactive: An alert is triggered if an account remains inactive for a specified number of hours. This feature helps monitor account usage and ensures timely attention to prolonged inactivity.
	Docking Station Inactive Alert: An alert is triggered if a docking station remains inactive for a specified number of hours. This feature helps monitor the status and usage of docking stations, ensuring timely attention to any prolonged inactivity. Users can customize the threshold for docking station inactivity based on their requirements.
	Instrument not docked: An alert will be triggered if an instrument is not docked within a specified timeframe.
	Report when docking stations are not diagnosed: When enabled, it generates a warning report if docking stations fail to perform self-diagnostics within a specified time frame.
	Report when instruments are not diagnosed: When enabled, it generates a warning report if instruments fail to perform self-diagnostics within a specified time frame.
	In addition to datalog, Use instrument alarms to create critical alarm alerts:
	In addition to data log alarms, employ instrument alarms to generate critical alarm alerts.

116

Table 8.2 Setting fields

	Use Datalog Peak Reading for alarm classification: Utilize Data log Peak Reading for alarm classification instead of relying on instrument peak reading.
iNet Now Settings	**Number of minutes until the alert is escalated:** The time until the alert is escalated is set in minutes. • The default value is 5 minutes • Minimum Value is 2 • Maximum Value is 15 **Number of minutes until a short-term lost alert is generated:** The duration until a short-term lost alert is generated is specified in minutes. • The default value is 10 minutes • Minimum Value is 5 • Maximum Value is 20 **Number of minutes until a long-term lost alert is generated:** The duration until a long-term lost alert is generated is expressed in minutes. • The default value is 60 minutes • Minimum Value is 30 • Maximum Value is 90 **Clear Custom properties and assigned user on shutdown:** **Do not show equipment with the last known location:** **Map provider:** The user can choose from three different map providers. • Google maps • Geode Maps • Open Street Maps
Types of alerts we send to primary contact	During live monitoring, any checked alerts that do not have subscribers assigned to them will be sent to the primary contact.
OK Button	Clicking the OK button saves any changes made on this page. Once saved, the Dashboard page will be displayed.
Cancel Button	Clicking the Cancel button will promptly show the Dashboard page, resulting in the loss of any changes made to the values on this page.

Request Address Change

Clicking the link leads to the Request Address Change page, where users can submit a request to change their addresses.

Figure 8.4 Request address change

Click on any link that requires an address change; once you check it, the address detail page will drop down. You can set an address for the following.

- Ship-To Address
- Invoicing Address
- Cylinder Auto Replenish Ship-To Address
- Cylinder Auto Replenish Invoicing Address

Figure 8.5 Address change fields

The fields available for the address below are explained in the table below.

Table 8.3 Address fields

Field	Description
Address	Represents the equipment's ship-to address.
Address2	Refers to the second line of the equipment's ship-to address.
City	Indicates the city of the equipment's ship-to address.
State/Province/Region	Specifies the state or province of the equipment's ship-to address.
Postal/Zip Code	Denotes the zip code of the equipment's ship-to address.
Country	The dropdown allows users to select the country to which the equipment's ship-to address belongs.
Attention	Used to notify a specific person or include a message related to the ship-to address.
Copy Ship-To Address Link Button	When clicked, this button copies the details from the Ship-To address section and automatically pastes it to the invoicing address, cylinder auto replenishes to ship-address, and cylinder auto replenishes to invoicing address.

Request Auto Cylinder Replacement

The Link is available when the account does not enable automatic cylinder replacement. Clicking this link takes users to the Auto Replenish page, where they can complete the form to sign up for Auto Gas Replenish Service.

Figure 8.6 Request auto cylinder replacement

The fields on the Request Auto Cylinder replacement are explained below.

Table 8.4 Request auto cylinder replacement fields

Contact Information Section

Full Name: Provide the user's name (e.g., Dean Jones).

Last Name   If left blank, an error message will indicate that the last name is required (limited to 25 characters).

Table 8.4 Request auto cylinder replacement fields

Phone Number:	If left blank, an error message will indicate that the phone number is required (limited to 50 characters).
Email Address:	An error message will indicate the required email address if left blank. The email format must be valid (e.g., name@domain.com) to avoid an *Invalid email address* error (limited to 256 characters).
Confirm Email Address:	An error message will indicate the required confirmation email if left blank. It should match the provided email address; otherwise, an error will state, *Confirm email address should match with email address* (limited to 256 characters).

Shipping address

Address:	Provide the user shipping address. If left blank, an error message will indicate the required address (limited to 100 characters)
Address2:	Represents the second line of the shipping address (limited to 50 characters).
City:	Specify the city for the shipping address. If left blank, an error message will indicate that the city is required (limited to 50 characters).
State/Province/Region:	Indicate the state or province associated with the shipping address (limited to 50 characters).
Postal/Zip Code:	Enter the postal or zip code for the shipping address (limited to 50 characters).
Country:	Use the dropdown to select the country to which the shipping address belongs.
Auto Replenish Courier	Specify the company responsible for delivering the cylinders (e.g., FedEx) (limited to 50 characters).
Shipping Method	Choose the shipping mode for the transaction (options include Overnight, 2 Day, 3 Day, and Ground).

Billing information

When providing billing information, users can choose from the following payment types:
- Credit Card
- Purchase Order

Remember that *Industrial Scientific* will contact users to collect any necessary payment details.

Billing address

Address:	Provide the user billing address. If left blank, an error message will indicate the required address (limited to 100 characters).
Address2	Represents the second line of the billing address (limited to 50 characters).
City:	Specify the city for the billing address. If left blank, an error message will indicate that the city is required (limited to 50 characters).
State/Province/Region	Indicate the state or province associated with the billing address (limited to 50 characters).
Postal/Zip Code:	Enter the postal or zip code for the billing address (limited to 50 characters).
Country:	Use the dropdown to select the country to which the billing address belongs.

Auto Replenish iNet Alert Contact Information Section

Full Name:	Provide the user's name (e.g., Dean Jones).
Last Name:	If left blank, an error message will indicate that the last name is required (limited to 25 characters).
Phone Number:	If left blank, an error message will indicate that the phone number is required (limited to 50 characters).

Table 8.4 Request auto cylinder replacement fields

Email Address	An error message will indicate the required email address if left blank. The email format must be valid (e.g., name@domain.com) to avoid an *Invalid email address* error (limited to 256 characters).

Submit button

When using the Submit button, the system validates the entered information. If any validation fails, it displays relevant error messages. If validation succeeds, the details are stored in the database, and the user is redirected to the Account Settings page.

Cancel button

Clicking the Cancel button redirects the user to the Account Settings page without further processing.

Critical Alarm Configuration

This page describes the configuration of gas concentrations that should trigger a Critical Instrument Alarm Alert. This feature is likely to alert users when gas concentrations reach dangerous levels.

Figure 8.7 Critical alarm configuration

Gases

The gas includes Ammonia, Carbon Dioxide, Carbon Monoxide, Chlorine, Chlorine Dioxide, Combustible-LEL, Combustible-PPM, Hydrogen, Hydrogen Chloride, Hydrogen Cyanide, Hydrogen Sulfide, Methane, Nitric Oxide, Nitrogen Dioxide, Oxygen (Low), Pentane, Phosphine, and Sulfur Dioxide for which alerts can be configured.

Concentration

The concentration that triggers an alert is usually a higher gas concentration level except for Oxygen (O2), where insufficient gas level triggers a critical alarm. The unit of measurement for the gas concentration are ppm, %vol, and %lel.

Dashboard Settings

Overview

The dashboard (classic dashboard) settings page allows the user to set the score type on the dashboard—the two scores that can be used on the Dashboard: Industrial Scientific Recommendations and Custom Score. The user can select either of these score types.

Display Preferences
Score Type:
● ISC Recommendations
○ Custom Score
☐ Show Industry Averages

Figure 8.8 Dashboard settings

ISC recommendation

When ISC (Industrial Scientific) recommendations are selected, ISC recommendations are displayed on the dashboard. The Industry Averages checkbox is visible when this is selected.

Custom Score

The Custom Score feature in iNet Control. When selected, the user can enter custom score settings displayed on the website. The Custom Score grid & Reset to Default Weights button are visible when this is selected. The Industry Averages checkbox is invisible when this is selected.

Category		Item	
Alarms	33 %	Time spent in high alarm	33 %
		Count of high alarms	33 %
		Amount of gas sensed above high alarm	33 %
		Alarms Total	99 %
Equipment	33 %	No data sent to iNet	22 %
		Equipment not sending data to iNet	22 %
		Recent calibration failures	17 %
		Low, empty or expired gas cylinders	22 %
		Marginal sensors in use	17 %
		Equipment Total	100 %
Usage & Settings	33 %	Use without calibration	37 %
		Use without Bump Test	9 %
		Turn offs while in alarm	9 %
		Datalog recording interval too high	4 %
		Datalog turned off	37 %
		Alarm settings too high	4 %
		Usage & Settings Total	100 %
Category Total			99 %

Figure 8.9 Dashboard settings.

The custom score grid displays the current custom scoring settings. The grid contains the following parts:

Table 8.5 Dashboard settings fields

Category Column	The three main categories are shown in this column: Alarms, Equipment, and Usage & Settings. Each category can be assigned a percentage (0-100%).
Action Item Column	The metrics are associated with one of the three categories. A percentage (0-100) can be assigned to each metric.
Category Total Row	This displays the sum of the percentages entered into the Category Column.
Action Item Total Row	This displays the sum of the percentages entered into the Action Item Column for each of the three Categories.

Show Industry Averages

When checked, the checkbox *Show Industry Averages* displays industry averages on the dashboard.

Error

An error message appears when the category total does not equal to 100% in the critical alarm configuration.

Ok

When the user clicks the OK button, any changes made to the values on this page will be saved. After saving, the Dashboard page is displayed. Note that the Score will be updated only when the scheduler runs the next time.

Cancel

If the user clicks the Cancel button, the Dashboard page will be displayed immediately, and any changes made on this page will be lost.

9

iNet Now

Overview

iNet Now is an additional functionality inside iNet Control and the Core Server that customers can pay extra to access.

- iNet Now provides real-time data capabilities
- Devices upload gas readings in real time
- Generates real-time alerts that can be subscribed to through email and or SMS texts
- You can view *dots on a map.*

iNet Now functionality can be accessed through iNet Now menu in iNet Control. The UI for the Live Monitoring map is a React application.

Part of iNet Now functionality also exists as a mobile application (iNet Now Sync), available for both Apple and Android devices. iNet Now Sync mobile application was the first gateway to upload readings directly from connected Ventis Pro instruments into iNet in real time. Today, Industrial Scientific offers other real-time hardware solutions for uploading gas readings into iNet.

Live Monitoring

Live Monitoring shows a list of workers and instruments along with their current status and location on a map.

Note: If iNet Now is not working, you will see this message: *iNet Now is temporarily unavailable*. There will be no real-time updates while this message is shown.
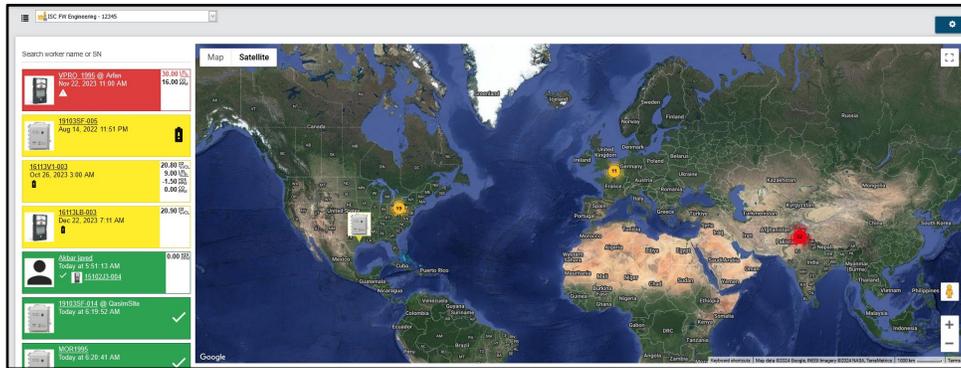
Figure 9.1 Live monitoring

Search Worker Name or SN

A search bar can be used to search for worker name, product SN, or instrument SN in the live monitoring list.

The list will be narrowed down to include only worker names and instrument serial numbers that have the entered input within them. The applied filter is lost when the page is manually reloaded or the Account/Equipment Group changes. When the cross (✖) button is clicked, it clears the search bar.

Figure 9.2 Search bar

Map

You can use this control to change the Account or Equipment Group, and the page will refresh to show only that specific account or equipment group.

Note: This change from the current behavior usually directs the user to the Equipment List.

A new feature, an *All Unassigned* node, has been added. This node encompasses all equipment not assigned to a named Equipment Group, similar to the Equipment List.

Monitoring List Items

The Instruments within the equipment group that are not wirelessly activated will not be displayed in the live monitoring list (see Activate New Equipment).

If an instrument has multiple statuses or alarms, the highest priority is displayed, following this order:

- Panic Alarm
- Man-Down Alarm
- Custom Alarm
- High Alarm
- Low Alarm
- STEL Alarm

- TWA Alarm

Figure 9.3 Monitoring list items (cards)

The primary identifier is the worker's name, which is the most prominent, and this is applicable only if a name is assigned. Otherwise, the primary identifier becomes the serial number see Table 9.1. Additionally, note that the site is applicable if uploaded from the equipment.

Table 9.1 Monitoring list naming convention

Worker Name	Site	iNet Display
Applicable	Applicable	Worker Name @Site
Applicable	N/A	Worker Name
Not Applicable (N/A)	Applicable	Serial Number @Site
Not Applicable (N/A)	N/A	Serial Number

When a live-monitored instrument is in alarm, the right side of the card presents details for each sensor. Each sensor showcases its reading, gas description, and unit of measurement. The details of the Monitoring List items are explained below.

Monitoring list card	Details
	When the instrument is in Short-term loss or Long-term loss, a warning/yellow indicator will be shown, and the text short-term or long-term loss will appear under the cloud icon.
	Instruments that never had GPS coordinates will be shown in gray and no marker will appear on the map for those instruments. The map will display markers for other instruments with GPS coordinates.
	The monitoring list card is green when there is nothing wrong with the instrument, and it is being monitored.

129

Monitoring list card	Details
VPRO_1995 @ Arfan Nov 22, 2023 11:00 AM ⚠ 30.00 LEL %LEL 16.00 CO PPM	When an instrument is in man-down, or panic alarms, and neutral when not monitored, it is shown in red. The sensors with active alarms are shown in red, while sensors without alarms are shown in black.

Figure 9.4 Monitoring list items (cards)

The card will remain visible as long as the instrument is ready to be monitored. It is in the account, active, and configured for *Unlimited Instruments* in iNet Now or a specific number of instruments.

Table 9.2 Monitoring list details

Picture	If a worker is assigned, their picture will be displayed, showing the set picture if available; otherwise, the default picture is shown, while if no worker is assigned, the picture remains hidden.
Serial Number	The Serial Number serves as a link that, when clicked, directs the user to the corresponding summary page (Equipment or Instrument).
Phone number	The Phone Number displayed corresponds to the user's associated number from the Person Summary Page and aligns with the number shown in the info window.
Equipment picture	The Equipment Picture, as per, includes the Date/Time of the last connectivity.
Status/Alarm icon	The Status/Alarm icon is a visual representation of the type of status or alarm. Hovering over the icon provides additional information by displaying the name of the status.

Instrument Statuses

Note: The icons below are mockups for the Activity tab, which may not precisely match the icons shown in the app. However, they accurately represent the intended appearance. The relevant status icon will be displayed if no sensor readings are being sent.

Table 9.3 Instrument statuses

Status	Icon	Notes
OK		The instrument sends periodic signals if it is not in any alarm condition. In other words, it is considered OK if the instrument is not in an alarm state. The instrument itself determines the frequency of these signals.
Panic Alarm	⚠	The instrument sends a signal when its user presses the panic button.
Man-Down Alarm	🏃	The instrument transmits a signal when it detects a Man-Down alarm condition.
Gas Alarm	🔊	The instrument sends a signal when one or more sensors register High, Low, STEL, or TWA alarms.
Shutdown	⏻	The instrument emits a signal when a user power it down.
Short-Term Lost	☁	Get notices when the instrument has not sent a signal within the short-term lost interval and has not been turned off.

Table 9.3 Instrument statuses

Status	Icon	Notes
Long-Term Lost		It recognizes a situation when the instrument has not sent a signal for an extended period (exceeding the long-term lost interval) and remains operational without being shut down.
Ok- Current Location Unknown		This indicates that the instrument is currently uploading (or has not encountered a short-term loss yet), but the latest upload does not include any location information.
Low Battery		The instrument is low on battery.

Live Monitoring Map

Upon the initial map loading, it displays a *Loading Map* overlay. It will automatically adjust the zoom and centering to fit all items from the monitoring list on the page, ensuring that all markers are visible. The map features markers (pins) for each item on the current monitoring list page. If the equipment is assigned to a user with a picture in it, the marker will display the worker's picture. The marker's color aligns with the monitoring list-icon color: green for a green icon, yellow for a yellow icon or unknown coordinates, and red for a red icon.
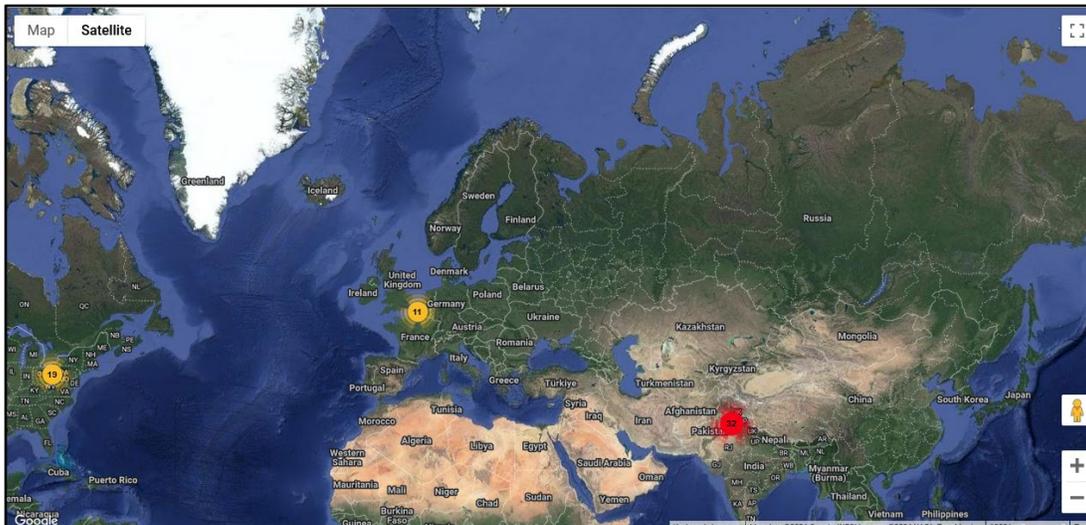
Figure 9.5 Monitoring list items (cards)

The marker will be positioned at the GPS coordinates received. Upon clicking the card, a blue circle will appear around the coordinates, indicating the level of accuracy. When multiple signals are uploaded, the GPS location with the highest accuracy is utilized.

*Note***:** The marker is placed based on the GPS coordinates of the device running iNet Now Sync App, not the instrument.

iNet Now Activation

There are two types of iNet Now Activation: temporary and reserved.

Temporary activations are given to equipment on a first-come, first-served basis. When the equipment is turned off or lost for a long time, the activation becomes available for other equipment. Reserved activations are set aside specifically for certain equipment for an unlimited time as long as the reserved checkbox is checked.

Figure 9.6 iNet Now activation

The fields of iNet Now are explained below.

Table 9.4 iNet Now activation fields.

Column	Description
Reserved/Temporary	
Reserved Check Box	Marking the box activates it right away, while unmarking it deactivates it instantly, and this column is only for reserved activation.
Serial Number	Indicates the instrument group type to which instruments belong for reserved and temporary.
Equipment Group	This indicates the specific group of the equipment, i.e., the RGX Safer Test.
Current User	Show the current user for reserved and temporary activation.
Equipment Type	This column displays the equipment type, i.e., safe core module.

Real Time Alerts

Real-time alerts show the selected/unselected records and summary of alerts.

Figure 9.7 Real-time alerts

This page can notify you about instrument alarms during live monitoring, and you can acknowledge them. It also alerts if a connection with the instrument is lost during live monitoring.

Table 9.5 Real-time alert fields

Column	Description
View	Clicking on the view link takes us to the Real-Time Alerts Detail Page
Cleared	Click the *clear alert* link to dismiss a specific alert. Once cleared, it will show cleared.
Alarm Type	The Alarm Type tells the user what type of alarm alerts the user is alerted for. There are the following types of alerts: • Low Alarm • High Alarm • STEL Alarm • TWA Alarm • Man-Down Alarm • Panic Alarm • Short-term lost • Long-term lost
Occurred On	This column represents the start date and time of the alarm.
Alert Time	This field indicates the alert time.
User	The associated user is the one who uploaded and stored the alarm.
Sync App User	The Sync App User refers to the name of the person logged into iNet Now Sync App from which the last upload occurred.
Equipment SN	This shows the serial number of the equipment.
Equipment Code	This indicates the equipment type.
Site	The site gives us the site from where the alarm was uploaded if there was a site assigned to the instrument.

Heat map

A heat map is used to visualize the alert behavior in live monitoring. A heat map for the available alerts can be viewed using the heat map button on the alerts page.
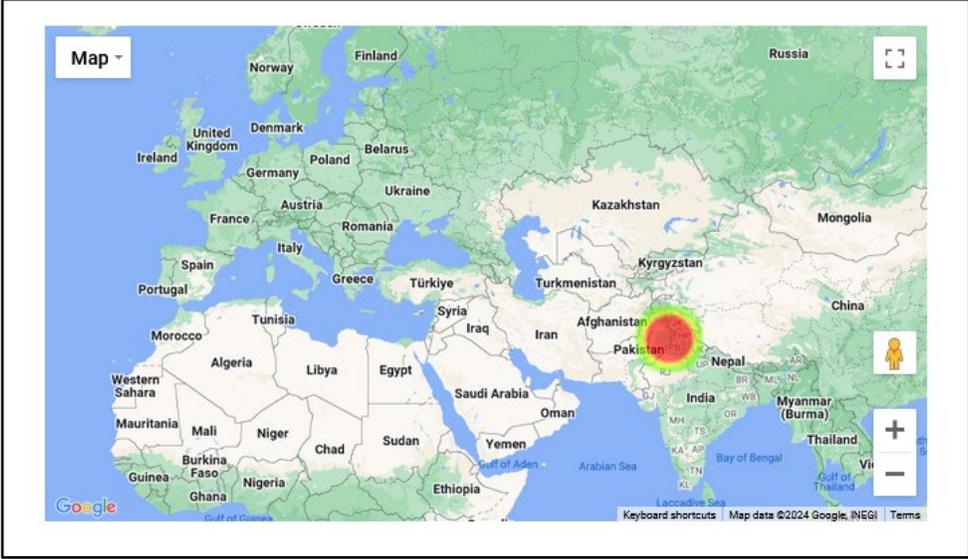
Figure 9.8 Heat map

Real-Time Alerts Detail

The real-time alert detail page displays the general information, alert status, recipients, and notes for the real-time alert.

Table 9.6 Real-time alert detail

Field	Description
General information	
Description	It specifies the nature of the alert (e.g., Calibration Failure, New Instrument, Instrument Alarm, etc.)
User	This field indicates the instrument user.
Site	Shows the site where equipment is installed.
Equipment SN	The unique number for the equipment in the alert. If no equipment is involved, it is left blank. Clicking the SN redirects you to the Instrument or Docking Station Summary page.
Alert Time	It indicates the time when the alert was sent.
Occurred On	This field shows the time when the alert happened.
Account	This indicates the account from which the user currently login, e.g., ISC FW Engineering.
Equipment Group	The group to which the equipment belongs.
Sync App User	The person is currently logged into the Sync app.
Alert Status	
Cleared	Indicate whether the alert has been cleared or not.
Date Cleared	The date on which the alert was cleared. If not cleared, this field remains empty.
Cleared By	The person who cleared the alert, or in the case of automatic resolution, iNet – Auto is displayed.

134

Table 9.6 Real-time alert detail

Field	Description
Clear Button	This information shows up only if the alert is not cleared. If you click it, the alert gets marked as cleared, and the time and user who did it are saved and shown.

Recipients

Email Recipients	List of users who received the alert by email, separated by commas.
SMS Recipients	List of users who received the alert by SMS, separated by commas.

iNet Now Info

The instrument marker will appear like the marker icon on the Live Monitoring page. The gas information will also be displayed over here.

Notes

Notes Entry	Every note entered has a displayed entry showing the note's text, creation date and time, and the user who made the note.
Delete Link	Each note entry has a delete link. Clicking this link removes the note.
Notes Text Box	Enables the user to input a note.
Add Button	Clicking this saves the note.

Custom Alarm Setting

This page is designed to set up the levels of gas concentrations that will activate a Real-Time Alert.

Figure 9.9 Custom alarm settings

The fields on the gas concentration for custom alarm settings are displayed below.

Table 9.7 Custom alarm setting fields

Field	Description
Gas Name	The user can add gas concentration for any of the following gasses; • Ammonia • Carbon Dioxide • Carbon Monoxide • Chlorine • Chlorine Dioxide • Combustible-LEL • Hydrogen • Hydrogen Chloride • Hydrogen Cyanide • Hydrogen Sulfide • Nitric Oxide • Nitrogen Dioxide • Oxygen (Low) • Phosphine • Sulfur Dioxide

Table 9.7 Custom alarm setting fields

Field	Description
Concentration	The alert is triggered by a higher gas concentration level, except for Oxygen (O2), where an insufficient gas level triggers a critical alarm. The unit of measurement for the specific gas is displayed in read-only text next to this field.
	The maximum value for Measurement Type ppm is 10,000, and for %vol & %lel, it is 100. The minimum value aligns with the Low Alarm Factory Default
Ok Button	It saves any modifications made to the values on this page. Once saved, the user is redirected to the Dashboard is displayed.
Cancel	The Cancel button discards any changes made and takes the user to the Dashboard.

Geofences

The geofences tab enables users to customize their maps and receive alerts for specific locations. This feature enhances visibility at the work site.
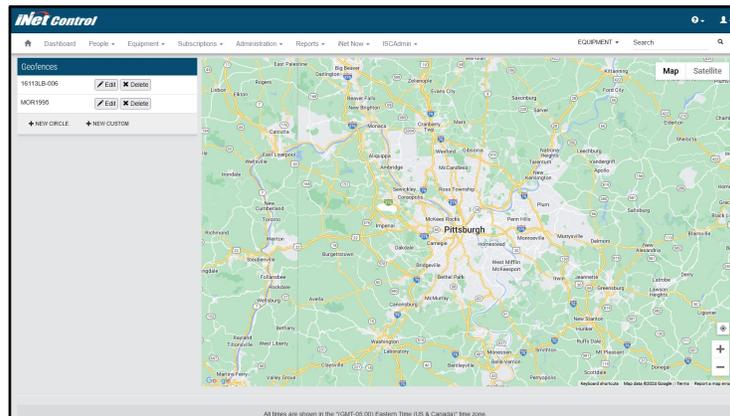
Figure 9.10 Geofences

To add a new circle or custom shape to the map, click on *New Circle or Custom*. A popup will appear with fields on the side of the map. Then, draw a circle or custom shape at your desired location to place. The fields for adding a new custom or circle geofence are detailed in the table below.

Table 9.8 Add circle/custom geofence field.

Field	Description
Name	Enter a unique name for this field that will be visible during live monitoring.
Geofence Color	Select the color for geofences.
Maximum Occupancy Level	Use the up and down arrow buttons to adjust your maximum occupancy level for specific alerts.
High Occupancy Warning Threshold	Adjust the alarm threshold by using the up and down buttons.
Site Name	Choose your site by clicking on the dropdown button.
Edit	To modify existing geofence, select the *Edit* button. This allows you to adjust the locations, name, color, and site name. Additionally, you have the option to alter the shape of your geofence.

Delete	To remove a previous geofence, click on the *Delete* button. A confirmation message asking, *are you sure you want to delete this Geofence?* Will appear. Press *OK* to confirm deletion or click *Cancel* to abort the deletion process.
Ok	The *OK* button closes the dialog and saves the changes made.
Cancel	The *cancel* button closes the dialog, discarding any changes made.

Obstructions

To identify specific areas where geofencing is not feasible due to network communication or other constraints, users can mark these locations as obstructions on the map.
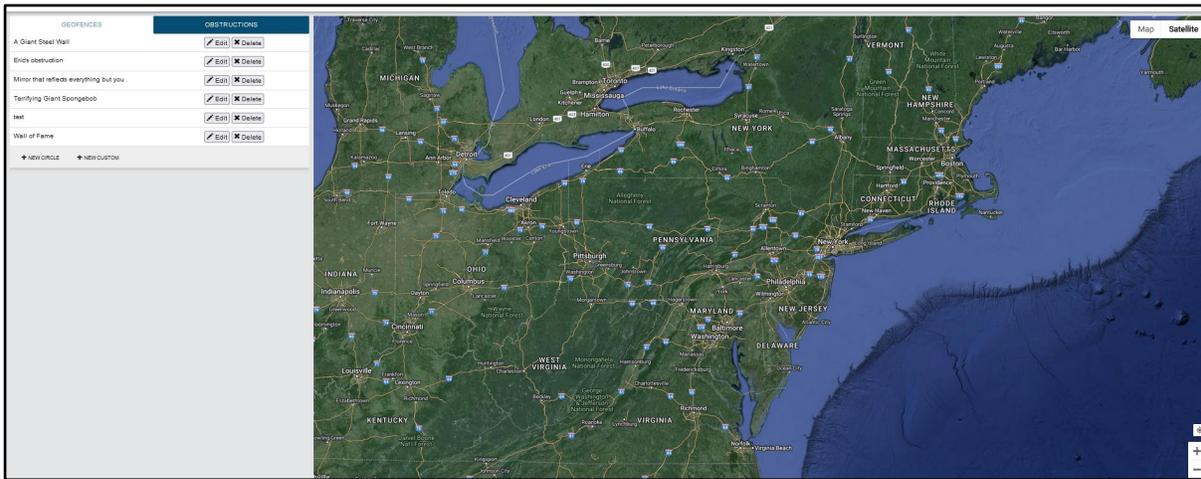
Figure 9.11 Obstructions

This can be done by drawing circles or selecting custom shapes in the desired areas. Further information on obstruction fields is provided in the accompanying table.

Table 9.9 Add circle/custom obstructions field.

Field	Description
Name	Provide a distinctive name for this field that indicates the restricted area where there is an obstruction.
Edit	To adjust existing obstructions, click on the Edit button. This enables you to modify the locations and names of the obstructions. Furthermore, you can change the shape of the obstructions. The previous obstructions names are shown at the top of the bar, along with the obstruction type (either custom or circle).
Delete	To delete a previous obstruction, click on the Delete button. A confirmation message will appear, asking if you want to delete this obstruction. Press OK to confirm deletion or click Cancel to cancel the deletion process.
Ok	The *OK* button closes the dialog and saves the changes made.
Cancel	The *cancel* button closes the dialog, discarding any changes made.

Appendix – A

Standard Permission Set Details

Feature	Access level	
	Read Access	**Admin Access**
Activate New Equipment	-	Allowed
Add Notes	Allowed	Allowed
Alert Recipients	-	View & Edit
Alerts	View	View & Clear
Analytics	View	View & Edit
Assign Users to Instruments	-	Allowed
Data log	View	View & Edit
Data log Alarms	View	View & Clear
Delete Notes	-	Allowed
Edit Account / Dashboard Settings	-	Allowed
Equipment	View	View & Edit
Equipment Debug Logs	-	Allowed
Equipment Groups	View	View & Edit
Event Schedules	View	View & Edit
Events	View	View & Edit
Force Events	Allowed	Allowed
Force Events	-	Allowed
Geofence	View	View & Edit
iNet Now	-	View & Edit
Interactive Device Placement	View	View & Edit
Report Administration	View	View & Edit
Schedule Firmware Upgrades	-	Allowed
Settings Groups	View	View and Edit
User Administration	-	View & Edit

Appendix – B

Editing/Adding Instrument Settings/Settings Group

The Add/Edit Settings Group allows users to create or edit an existing setting group. Depending upon the type of instrument node (GasBadge Pro, MX4, Ventis Pro, MX6 iBrid, Tango series, SafeCore module, Docking station, RGX Gateway, and TGX Gateway), the settings group is displayed.

Note: Some Add/Edit Settings Group fields might not be available for the selected setting group.

The fields are explained in the column below.

Editing/Adding Instrument Settings/Settings Group Fields

Field	Description
General information	
Setting Group Name	This is the name of the Settings Group. If the Account Default group has not been entered, this defaults to Account Default and cannot be changed.
Language	The user can set the language of the instrument from here.
Time Zone	This dropdown list has the same time zone as your Account Settings page, and Use Account's Time Zone is the default setting.
Purge Gas After Bump Test	If selected, this checkbox allows users to clear out gases after a bump test.
Log Level	The logging level dropdown can be set to Info, Error, Warning, Debug, or Trace.
Menu Locked	Marked this checkbox if the menu is locked; otherwise, it is unmarked.
Allow Web Configurator Settings Changes	You can set up your equipment using the web configurator by marking this box. It is unchecked by default.
Audible Alarm	If the audible alarm is enabled, the checkbox is marked; otherwise, it is unmarked.
Allow Expired Cylinders To Be Used For Bump Tests.	By default, it is not selected. It decides whether expired gas can be utilized for bump tests.
LEL Sensor Bump Test Gas	Provide a dropdown list containing all possible combustible gases, including an option for the *Same as calibration gas.*
Gas Inlets Settings	
Allow Fresh Air	Enable the Allow Fresh Air option. When selected, fresh air is permitted on inlet 1.
Allow Zero Air	Enable the Allow Zero Air option. When selected, zero air is permitted on inlet 1.
Ok Button	If the docking station uses the default factory settings and the user makes updates, the settings will be changed to Account Defaults. This action returns the user to the Settings Group page.
Cancel Button	The *Cancel* button discards any changes made on this page and takes the user back to the Settings Group page.
Access Code	The password for the instrument in this field can only contain letters and numbers and must be between 3 and 10 characters long. If the user enters an invalid value, an error message states that the Access Code can only contain letters and numbers and must be between 3 and 10 characters long.

Editing/Adding Instrument Settings/Settings Group Fields

Field	Description
Company Name	It is shown on the instrument's *customer info* screen, along with the active user and active site.
Low Battery Warning Threshold	This is the low battery indication setting. The instrument displays a low battery when the battery percentage reaches less than the set threshold.
Non-Critical Data Interval	This is the Non-Critical data-sending interval. The value is given in minutes.
Communication Priority	This sets up the communication priority for the instrument if it supports multiple communication.
Timer Server URL	This is the server set to get time for the instrument.
GPS/GPS required	These are the checkboxes that can turn GPS settings on and off.
GPS Update Interval	The instrument gets the GPS data after this interval.
Always-On/ Disable shutdown	This checkbox disables the option to shut down an instrument.
Repeater mode	This mode in some instruments allows it to act as a repeater.

Note: This subsection is exclusively for docking station settings, not for instrument settings.

Options-LENS wireless

Group	Groups are categorized as either manual or assigned alphabetically from A to J.
Enable Custom Encryption	Default unchecked
Custom Encryption Key	Maximum of 16 characters
Peer Alarm Indicator	Options for Peer Alarm Alerts: • Off • Visual • Visual and Audio
Enable Last Peer Left Warning	Activate the alert for multiple instruments. Upon exiting the group, a warning message will be shown, and the default will be unchecked.
Enable View Peers	When this checkbox is selected, it will display all peers connected to the instruments.
No Peers Warning	A warning message will be displayed if no peers are connected to the instruments.
Peer Readings Screen Time Out	Choose how long the Peer Readings Screen stays active: • 30 seconds (by default). • Off
Power Setting	This feature of two communication modes for LENS is available only for version 1.4 or above. • CE/RED • World Mode (Not Compliant with CE/RED)

iAssign

Beacon	When the beacon is chosen, the RGX gateway will utilize the site assigned from the gateway summary page as the site for the instrument within the specified range. The RGX gateway will broadcast any available site information if no site is assigned.
BLE Range Access	Specify the beacon's range by selecting from the following options: 1 m (3 ft.), 5 m (16 ft.), 20 m (65 ft.), or 30 m (100 ft.).

Editing/Adding Instrument Settings/Settings Group Fields

Field	Description
Restriction Access Level	Choose the access level for the beacon from the options Not Restricted, Least Restricted, Level 2 through Level 9, or Most Restricted.
Backup SMS Number	When there is a communication failure, it sends a message to the registered number.

Option-Application Settings

Field	Description
Readings Dead Band	The sensors must exceed a certain percentage of the low alarm to trigger the lengthy message. (Applies to Local Server only)
Dynamic Monitoring Mode	By default, the safer mode is turned off. To activate it, check the checkbox.
Dynamic Monitoring Mode (Deprecated)	The safer mode is not enabled by default. To turn it on, check the checkbox. This is the older version of the dynamic monitoring mode.

Options-Administration

Field	Description
Recording Interval	The recording interval field shows the time between readings in seconds.
Bump Test Threshold	Set the starting value for checking gas calibration in percentage of volume (%Vol).
Bump Test Timeout	The bump test will fail if the instrument does not detect gas for 120 seconds.
Backlight Timeout	Specify the duration for the instrument's screen to be on and off.
Bump Test Due Interval	A warning message about the bump test due date interval will be displayed when you check this box.
Calibration Due Interval	A warning message about the bump test due date interval will be displayed when you check this box.
Sync Interval	It interval sync after days fixed field
Bump Test Due Warning	You can receive a bump test due warning in three ways: • Enabled Audible and visual alerts • Enabled Audible alerts only • Enabled Visual alerts only.
Calibration Due Warning	The calibration due warning can be received in three ways: • Enabled Audible and visual alerts • Enabled Audible alerts only • Enabled Visual alerts only
Confidence Indicator	The confidence indicator can be configured in three ways: • Enabled Audible and Visual • Enabled – Audible only • Enabled – Visual only
Date Format	The date format can be displayed as MM/DD/YY or DD/MM/YY.
Dock Due Warning	The dock due warning can be received in three ways: • Enabled Audible and visual alerts • Enabled Audible alerts only • Enabled Visual alerts only

Editing/Adding Instrument Settings/Settings Group Fields

Field	Description
Maintenance Display Format	The Maintenance Display Format allows you to choose between displaying the Last Calibration Date or the Next Calibration Date and Dock Date.
Temperature Units	You can set the Temperature Units to either Fahrenheit (°F) or Celsius (°C).
Time Format	Select either a 12-hour or a 24-hour time format.
Enable NFC	The checkbox for NFC and group binding is automatically marked by default.
Bump Overdue Warning	The Bump overdue warning can be configured with Disabled, Enabled with Audible and Visual alerts, Enabled with Audible only, Enabled with Visual only, or Enabled with Display Only.
Calibration Overdue Warning	The Calibration overdue warning offers options for Disabled, Enabled with Audible and Visual alerts, Enabled with Audible only, Enabled with Visual only, or Enabled with Display Only.
Confidence Beep/Flash/Vibration Enabled	Available for MX6, use a checkbox. For other instruments, utilize indicators with options: Audible, Visual, Audible, and Visual.

Options Alarms

Field	Description
TWA Time Base	The TWA time base field displays the session's duration in hours.
Man-Down Warning Delay	Checking this box will introduce a 120-second delay before triggering the alarm.
Man-Down Countdown Duration	Before activating the man-down alarm, it initiates a countdown after a set period, and once the countdown concludes, the alarm is triggered.
Man-Down Alarm Pause Timeout	When enabled, the alarm will automatically stop after a specific interval; otherwise, it must be stopped manually.
Alarm Types	Alarm Types can be configured as follows: • Visual and Vibrating • Visual and Audible • Visual, Audible, and Vibrating • Visual only.
Standby Clip Options	For version 4.20 or later, the following are the Standby Clip Options. • Man-Down Alarm silenced. • Man-down and Gas alarm silenced. • Man-Down and Peers alarm silenced. • Man-Down, Gas, and Peers alarm silenced.
TWA/STEL Calculations	For versions 4.20 or higher, TWA/STEL Calculations offer the following options. • Both Disabled • Both Enabled • STEL Enabled/TWA Disabled • TWA Enabled/STEL Disabled
Acknowledgeable Gas Alert	Set the gas threshold; whenever the gas level reaches to the threshold, an acknowledgment alert will be provided.
Alarms on When Dock	When this checkbox is enabled, registering and docking will activate the alarm, which is unchecked by default.
Allow Full-Screen Alarms	It simultaneously provides multiple alarms on a single screen, such as O2 low or high, with messages at the top of the instrument screen.

Editing/Adding Instrument Settings/Settings Group Fields

Field	Description
Allow Proximity Alarms	An alarm is triggered when the equipment goes out of range.
Gas Reading while Alarm Latch	When a gas alarm is cleared and the gas returns to normal, this alarm remains enabled.
Latched Alarms	Enabling this alarm will result in the display of gas readings.
Man-Down Alarms	To activate Man-Down Alarms, mark the checkbox.
Shutdown Allowed in Alarm	With Shutdown Allowed in Alarm enabled, the instrument will provide an alarm even after the battery is depleted.

Options SCBA Mode

Field	Description
SCBA Mode	When SCBA Mode is activated, the user can silence the gas alarm.
SCBA Snooze Timer	Set the SCBA Snooze Timer to determine when it returns to its original condition.

Options-Start-up Mode

Field	Description
Custom Start-up Message (Line 1)	Create a concise 100-character 1st message for on-screen display.
Custom Start-up Message (Line 2)	Users can generate a 100-character start-up 2nd message for on-screen display.
Custom Start-up Message (Line 3)	Users can generate a 100-character start-up 3rd message for on-screen display.
iAssign at Start-up	The iAssign feature offers the following options. • Disabled iAssign • Enable/Remind iAssign • Require iAssign
iAssign option Warning	The iAssign warning provides the following options. • Disabled • Site only • User and site-only • User only
Bump Test Prompt at Start-up	When enabled, the instrument prompts for a bump test upon start-up.
Enable German Compliance Screens Start-up	When enabled the instrument will show German compliance screen at startup.
Zero Prompt at start-up	If this field is enabled, the instrument displays a zero-test prompt upon start-up, indicating the need to perform a zero test.

Options-iNet Now

Field	Description
Sync While Charging	The instrument will synchronize with iNet While charging.
Connection Lost Warning	Choose Visual, Audible, or Visual & Audible for the Connection Lost Warning.

Options-Operation Mode

Editing/Adding Instrument Settings/Settings Group Fields

Field	Description
Always-On/Disable Shutdown	Always On is not selected by default. To enable, tick the checkbox. When this is enabled, disabling the shutdown during regular operations is impossible.
Bump Test Prompt in Operation Mode	In normal conditions, we choose the bump test option for the instruments.
Calibration Prompt in Operation Mode	In normal conditions, we choose the calibration test option for instrument calibration.
Changes Users & Sites in Operation Mode	Enabling this field allows you to modify users and sites directly from the instruments.
CO2 Zero Prompt in Operation Mode	For CO2 zero, enable this field, and the associated prompts are available. Applicable for version 1.1 or higher.
Gas Info Screens in Operation Mode	Enabling this field displays information about all gases on the screen.
Instrument Info/Assignments Screen in Operation Mode	Enabling this field shows the information of assignments about all gases on the screen of the instruments.
Peaks (View & Clear) in Operation Mode	Display the maximum value of all instruments with a clear button.
STEL (View & Clear) in Operation Mode	Enable the display of STEL with the default setting checked and include a clear button.
TWA (View & Clear) in Operation Mode	Enable the display of TWA with the default setting checked and include a clear button.
View Next/Last Cal or Dock Info	This field presents information on the instruments and dock station's current and upcoming calibrations.
Zero Prompt in Operation Mode	This shows a prompt for zeroing of instruments in operation mode.

Options-Sensors

100% LEL CH4	This shows four levels of LEL CH4. • 25% • 50% • 75% • 100%
Bump/Calibration Type	Choose the Bump/Calibration Type: • Quick • Standard
PID Error State Alert	For Version 1.023 or higher, the PID error state alert offers the following options: • Visual alerts • Disable • Audio alerts • Visual and Audio alerts
Toxic Sensor Measurement Units	The Toxic Sensor Measurement Units are in ppm, with an additional option for /m3 (available in Czech, Polish, and Russian only)

Editing/Adding Instrument Settings/Settings Group Fields

Field	Description
Enable High Range CH4 IR	High-range CH4 IR is not enabled by default. The default readings are 100% LEL CH4, 5.0% vol CH4, and 4.4% vol CH4.
PID Dynamic Dead band	This level represents the zero point for the sensor, and alarms are triggered based on it. This is only for 5.0.22 or higher version firmware.
Options-Bluetooth	
Bluetooth Monitoring	Bluetooth Monitoring options include Off, Local, iNet Now, or both Local and iNet Now.
Lone Worker OK Message Interval	Lone Worker OK Message Interval is set to 60 seconds, which is only available for admin users.
Option-iAssign	
iAssign Beacon Tones	iAssign Beacon Tones are initially enabled by default. To disable it, uncheck the checkbox.
Reset iAssign entered users/sites upon	Reset iAssign entered users/sites options, including Restart, Charging, and Overwrite.
User Access Level	User Access Level options range from No Restriction to Most Restricted, with specific levels including Least Restricted, Level 1 to Level 8, and Most Restricted; additionally, iAssign Beacon Tones are enabled by default.
User Site Screen Alert	The device displays user and site names after a set interval.
Options-Smart Battery	
Enable Smart Battery	Identify the battery type, whether a smart one or another one. Options include auto-detect or off.
Wireless Message Interval	Adjust the interval for wireless messages to 60 seconds.
Options-Others	
Calibration Display Mode	Select how calibration information is displayed: either show the last calibration date or display the next calibration date.
Clock Display Mode	
Data logging	Data logging is enabled with options for logging on alarm and snapshot mode.
PID/LEL Factor Mode	Choose the PID/LEL factors mode: • LEL Correlation Factors • PID & LEL Factors • PID Response Factors.
Readings Display Mode	Choose Reading Display Mode: • Text Mode • Numeric Mode • Graphical Mode
Start-up calibration display Mode	Select the Start-up Calibration Display Mode: • Display Last Calibration • Display the next calibration
Active user displayed on start-up	The active user display on start-up is initially unchecked. To enable it, mark the checkbox.

Editing/Adding Instrument Settings/Settings Group Fields

Field	Description
Can clear peak the s in the field	Clear Peaks in Field is initially checked by default. To not activate it, mark the checkbox.
Edit LEL correlation	Edit LEL correlation factor in the field is initially unchecked. Enable this option by checking the checkbox.
Edit the PID response factor in the field	Edit the PID response factor in the initially enabled field (checked). To disable this field, uncheck the box.
Edit the site in the field	Edit site information in the field is initially unchecked. Activate this option by checking the checkbox.
Edit the user in the field.	Edit the user in the field is initially unchecked. Activate this option by checking the checkbox.
Overwrite data log enabled	Overwrite data log is initially enabled (checked). To disable this field, uncheck the box.
Perform self-test on start-up	Perform the self-test on start-up, which is unchecked by default. Activate this option by checking the checkbox.
Rotate Display 180 degrees	Display rotation of 180 degrees is not enabled by default. To activate this, mark the checkbox.
View calibration date on start-up	Viewing the calibration date on start-up is initially unchecked. Enable this option by checking the checkbox.
View data log in the field enabled	Viewing data log in the field is initially enabled (checked). To disable this field, uncheck the box.
View event log-in field enabled	Viewing the event login field is initially enabled (checked). To disable this field, uncheck the box.

Appendix – C

Reports Formats

Report	Available Format
Instrument Status Report	Html, PDF
Instrument Warnings Report	Html, PDF
Instrument Alarm Summary Report	Html, PDF
Bump Test Report	Html, PDF
Fleet Event Report	Excel
Replaced Equipment Report	Excel
Custom Data log Summary Report	Excel, CSV
Custom Equipment Alert Report	Excel, CSV
Custom Usage & Settings Alert Report	Excel, CSV
Custom Gas Alarm Report	Excel, CSV
Custom Component Report	Excel, CSV
Custom Equipment Report	Excel, CSV
Instrument Usage Report	Html, PDF
Replaced Equipment Report	Excel
Custom Login History Report	Excel
Health Check Report	Html

Appendix – D

Alert Clearing Help

Alarm Type	Alert Category	Cleared by help text (Local Server)
Alarms/Sensors Turned Off	Behavior	Activate the alarm indicator or sensor to clear the *Alarm/Sensors Turned Off* alert. This alert indicates which specific alarm or sensor is inactive. You can adjust these settings using the docking station administration console.
Data Log Disabled	Behavior	To resolve the *Data log disabled* alert, activate the Data Logging feature on the instrument. This adjustment can be made through the docking station administration console.
Data Log Recording Interval Above Recommended Setting	Behavior	To clear the *Data log Recording Interval Above the Recommended Setting* alert, adjust the interval to match the recommended seconds using the docking station admin console.
Instrument Turned Off While In Alarm	Behavior	This alert tells you if an instrument was turned off during an alarm. Click the *Clear this Alert* link to remove it
Sensor Alarm Setting Is Above Recommended Value	Behavior	To remove the *Sensor Alarm Setting is Above Recommended Value* alert, adjust the alarm settings to equal or lower than the recommended value. The *Alarm Type* indicates the setting type (High, Low, STEL, or TWA), while the *Current Value* displays the current setting value, and *Recommended Value* shows the recommended value. Use the docking station admin console to modify the alarm settings.
Use Without A Bump Test.	Behavior	The *Use without bump test* alert appears when an instrument has been turned on for more than Y seconds without undergoing a bump test within X days. To dismiss the alert, click the *Clear this Alert* link. *Note:* The specific timeframe X depends on the account's settings.
Use Without Calibration	Behavior	The *Use without Calibration* alert tells you when an instrument was used without calibrating. Just click *Clear this Alert* to remove it.
Instrument Calibration Overdue	Equipment	The Instrument Calibration Overdue alert occurs when an instrument has not been calibrated by its scheduled date, which can be adjusted in the Account Settings. For instance, if set to 7 days, the alert triggers 7 days after the calibration is due. You can clear this alert by performing and uploading a successful calibration.
Instrument Bump Test Overdue	Equipment	The Instrument bump test Overdue alert is triggered when an instrument misses its scheduled calibration date, which you can adjust in Account Settings. For example, if set to 7 days, the alert activates after the calibration is due for 7 days. To remove the alert, conduct and upload a successful calibration.
Bump Test– Repeated Failure	Equipment	You can clear the *Repeated Failure* alert by completing a bump test or replacing the failed sensor.
Calibration Failure	Equipment	The Calibration Failure alert can be removed by successfully calibrating the device or replacing the sensor that caused the calibration failure.

Alert Clearing Help

Alarm Type	Alert Category	Cleared by help text (Local Server)
Calibration Gas Unavailable	Equipment	The Calibration Gas Unavailable alert disappears when the docking station successfully calibrates using the same gas. Click the Clear this Alert link to remove it.
Cylinder Expired Or Close To Expiring	Equipment	You can clear this alert by replacing or removing the expiring cylinder. Click the Component SN link to see details of the cylinder.
Cylinder Expired Or Close To Expiring – Auto Replenish	Equipment	It is the same as the cylinder that has expired or is close to expiring.
Docking Station Diagnostic Failure	Equipment	A successful docking station diagnostic clears the *Docking Station Diagnostic Failure* alert. If the problem persists, contact your local iNet Fulfillment Center.
Docking Station Upload Is Overdue.	Equipment	The docking station server must upload data to iNet to clear this alert. Make sure the docking station is connected to the server and the server is connected to iNet.
Instrument Upload Overdue	Equipment	This alert is cleared when the instrument is docked, and the docking station server uploads data associated with the instrument to iNet. Ensure that the docking station is communicating with the Docking Station Server and that the Docking Station Server is communicating with iNet.
Empty Cylinder	Equipment	The *Empty Cylinder* alert can be cleared by replacing or removing the empty cylinder. Click the Component *SN* link to view details of the cylinder.
Empty Cylinder – Auto Replenish	Equipment	It is the same as Empty Cylinder
Instrument Diagnostic Failure	Equipment	To clear the *Instrument Diagnostic Failure* alert, you need to perform a successful diagnostic test on the instrument using the docking station. If the issue persists, you should contact your nearest iNet Fulfillment Center.
Low Cylinder	Equipment	You must either replace or remove the low cylinder to clear the Low Cylinder alert. You can check the cylinder details by clicking the *Component SN* link.
Low Cylinder – Auto Replenish	Equipment	It is the same as the Low-cylinder
Marginal Calibration	Equipment	The *Marginal Calibration* alert can be cleared by calibrating or replacing the marginal sensor.
New Docking Station Notification	Equipment	An alert has been triggered to inform you about the addition of a new Docking Station to your iNet account. You can click the *Equipment SN* link for more information about the Docking Station. If you wish to remove the alert, click the *Clear this Alert* link.
New Instrument Notification	Equipment	You can get an alert when a new instrument is added to your iNet account. Click on the "Equipment SN" link to learn more, and click "Clear this Alert" to remove the alert.

Alert Clearing Help

Alarm Type	Alert Category	Cleared by help text (Local Server)
No Uploads For This Account	Equipment	To remove the alert, ensuring that the Docking Station Server successfully connects with iNet is important. Uploading data from your docking station to iNet will help you clear this alert.
O2 Sensor Failed Bump Test	Equipment	To clear the *O2 Sensor Failed Bump Test* alert, pass a bump test successfully or swap out the O2 sensor.
Sensor Was Removed But Not Replaced	Equipment	To remove this alert, put back the same type of removed sensor or click *Clear this Alert* if you do not need to monitor that gas anymore.
New Firmware Is Available For This Equipment	Equipment	This alert informs users when iNet detects a newer firmware version for their equipment. For those with an iNet Hosted account, click *Fix It!* to schedule the firmware upgrade, while others can click *Equipment SN* to access equipment details. To clear the alert, download the new firmware.
Return Equipment	Equipment	These alerts tell you that you must return a piece of equipment to Industrial Scientific because you have received a replacement but have not returned the original yet. If it is a Docking Station, it is already turned off; instruments will be turned off when docked next. This helps find missing equipment. The alert goes away once Industrial Scientific gets and handles the original equipment.
Calibration – Redundant Sensor Failed	Equipment	iNet found a *Calibration – Redundant Sensor Failed* issue. The iNet Fulfillment Center has recorded it and will respond according to the agreement for On-Site, Exchange, or Parts customers.
Calibration – Sensor Failed	Equipment	iNet found a CALIBRATION-SENSOR FAILED problem. The iNet Fulfillment Center has noted it and will address it as agreed for On-Site, Exchange, or Parts customers.
Calibration - Gas Flow Inhibited	Equipment	iNet has detected a CALIBRATION FAILED - GAS FLOW INHIBITED issue. This alert indicates a problem with gas flow related to the filter, weak pump flow, or gas connection. Here are the recommendations to resolve the issue: For Single Gas instrument: • Check Gas Connection • Review the filter and replace it if necessary • Dock the instrument again • Press the buttons in the following sequence for a forced Calibration: middle, middle, right, middle, middle. Wait for calibration to complete. For Multi Gas Instrument with pump: • Check Gas Connection • Remove the instrument from the docking station and power it on • After the 25-30-second warm-up, confirm the instrument goes into pump fault by placing your finger over the pump's inlet. • If the instrument does not go into pump fault, remove it from service and contact our iNet team.

Alert Clearing Help

Alarm Type	Alert Category	Cleared by help text (Local Server)
		• If the instrument goes into pump fault, ensure calibration gas is properly connected to a docking station(s), dock the instrument again, press the buttons for a forced Calibration, and wait for calibration to complete.
		The iNet Fulfillment Center has noted this event and will respond according to the agreement for On-Site, Exchange, or Parts customers.
Bump Test - Gas Flow Inhibited	Equipment	iNet has detected a BUMP TEST FAILED - GAS FLOW INHIBITED issue. This alert indicates a problem with gas flow related to the filter, weak pump flow, or gas connection. Here are the recommendations to resolve the issue:
		For Single Gas instrument: • Check Gas Connection • Review the filter and replace it if necessary • Dock the instrument again • Use the Docking Station's keypad to force a Bump Test and wait for it to complete.
		For Multi Gas Instrument with pump: • Check Gas Connection • Remove the instrument from the docking station and power it on • After the 25-30-second warm-up, confirm the instrument goes into pump fault by placing your finger over the pump's inlet. • If the instrument does not go into pump fault, remove it from service and contact our iNet team. • If the instrument goes into pump fault, ensure calibration gas is properly connected to a docking station(s), dock the instrument again, use the Docking Station's keypad to force a Bump Test, and wait for it to complete.
		The iNet Fulfillment Center has noted this event and will respond according to the agreement for On-Site, Exchange, or Parts customers.

Appendix – E

Range Guidelines to Maintain LENS Wireless Connections

Equipment items		Line-of-sight distance, maximum	
		LENS Power Mode Setting	
		World setting	CE RED setting
RGX to equipment items			
RGX to RGX[a] (World)	—	300 m (328 yd)	185 m (202 yd)
RGX to RGX[a] (CE RED)	—	185 m (202 yd)	185 m (202 yd)
RGX to Ventis Pro	100 m (109 yd)	—	—
RGX to Radius BZ1	—	300 m (328 yd)	185 m (202 yd) [b]
Instrument to instrument			
Ventis Pro to Ventis Pro	100 m (109 yd)	—	—
Ventis Pro to Radius BZ1	100 m (109 yd)	—	—
Radius BZ1 to Radius BZ1	—	300 m (328 yd)	185 m (202 yd) [b]

[a]Also applies to RGX units operating in LENS repeater mode: RGX to LENS repeater, LENS repeater to LENS repeater, and LENS repeater to RGX.
[b]Applies when the equipment items face each other.

Appendix – F

New customers can now access regional deployments of iNet Control in Europe (Germany), the Middle East (UAE), and APAC (Indonesia).

The existing customers should use the link: https://inet.indsci.com/Login.aspx to login to iNet Control

Note: Some features, such as iNet Control+, may not be accessible in these regional deployments.

Regional iNet Control Login URL

Region	URL
iNet Control	
US (-east-1)	https://inet.indsci.com/Login.aspx
DE (eu-central-1)	https://inet.de.indsci.com/Login.aspx
ID (ap-southeast-3)	https://inet.id.indsci.com/Login.aspx
AE (me-central-1)	https://inet.ae.indsci.com/Login.aspx
CN (cn-northwest-1)	https://inet.indsci.com.cn/Login.aspx

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