

Connect+

User Guide



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1. General Information

Connect+ is enterprise management software designed to monitor your store or region performance in real time. Currently Connect+ supports Copeland Controllers E2, Site Supervisor, and XWEB.

This document provides a step-by-step guide for **Store Managers or Monitoring Technicians** on how to use Connect+ to monitor your stores or regions. The following topics are included in this user guide:

- How to use an Advisory Map to locate your problematic sites.
- How to locate sites that are not sending alarms.
- How to diagnose advisories.
- How to review Live Advisories from controllers.
- How to monitor stores in real time and compare store/device performance.
- How to access controllers and schedule jobs to read data.
- Tips to process Live Advisories.
- How to override and manual defrost.
- How to search a site, a controller or a device in your enterprise.
- Review Enterprise Summary including stores, controllers and devices information.
- How to export store data

1.1 Terminology

- **Advisory:** Alarm/Notice generated from controller, or notification from Connect+.
- **Graphical Screen:** Floor Plans or Summary Screens for real time store monitoring.
- **Tree Hierarchy:**
 - » **Directory:** A region or a banner of a customer.
 - » **Site:** A store in a region or banner.
 - » **Control System:** A set of controllers within one store.
 - » **Unit:** Controller.
 - » **Application Type:** The type of application that has been set up inside a unit (controller) Example: AHR, Circuits, Condenser, Lighting Schedule, User Access are all App Type.
 - » **Application:** Apps are programmed inside a controller to access a physical device or define the controller setting.
 - » **Point:** Application's data attributes.
- **Activity:** A job that a user conducts to access the controller.
 - » **Obtain Controller Information:** Obtain controller hierarchy including every controller, application, and points.
 - » **Refresh Unit:** Refresh controller Information.
 - » **Refresh Application:** Refresh the applications of a controller.
 - » **Refresh Point List:** Refresh all the points of an application type/application.
 - » **Retrieve Logs:** Get log data from one or multiple points.
 - » **Manual Defrost:** Defrost a freezer manually.
 - » **Override/Modify:** Change a Point Value.
 - » **Display Log/Real Time Graph:** Display log graph or real time graph for a specific point.

2. Logging into Connect+

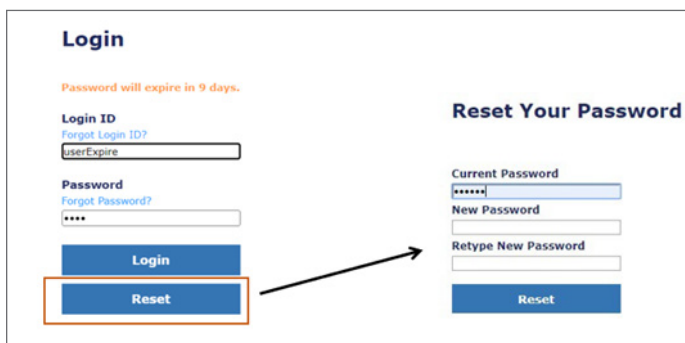
2.1 Log In with Connect+ User

Before logging into Connect+, contact your manager or IT department to obtain your Connect+ login credentials.

The image shows the Connect+ login page. On the left, there is a 'Login' section with fields for 'Login ID' and 'Password', and a 'Login' button. On the right, there is a large blue banner with the 'Connect+' logo and 'PROACT' text. The banner features a background image of a hand holding a tablet displaying a map, surrounded by various icons representing different services or locations.

Connect+ Login

If your company has enabled complex password, you might need to reset your password when first login or when your password is about to expire.

The image shows the 'Reset Your Password' page. It has two main sections: 'Login' on the left and 'Reset Your Password' on the right. The 'Login' section has fields for 'Login ID' (with a 'Forgot Login ID?' link) and 'Password' (with a 'Forgot Password?' link), and buttons for 'Login' and 'Reset'. The 'Reset Your Password' section has fields for 'Current Password', 'New Password', and 'Retype New Password', and a 'Reset' button. An arrow points from the 'Reset' button in the 'Login' section to the 'Reset' button in the 'Reset Your Password' section.

Reset Your Password

If you have forgotten your Password or Login ID, click **Forget Password** or **Forget Login ID**. You must have a valid email in your user profile with Connect+ in order to receive the temporary password or Login ID.

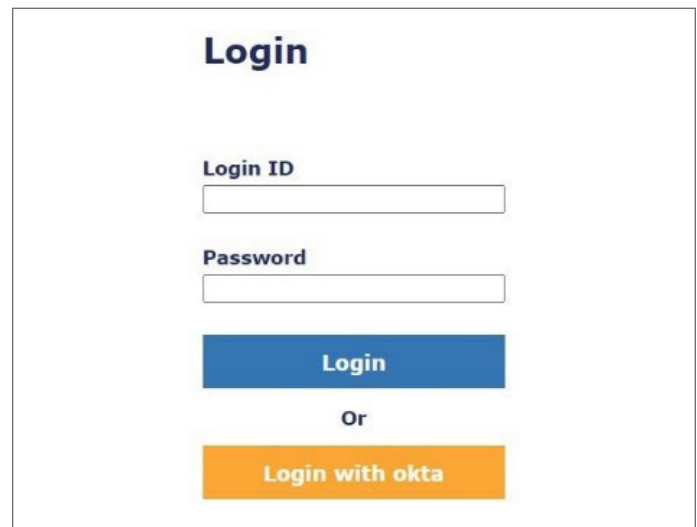
The image shows the Connect+ login page, identical to the one in the first image. It features a 'Login' section on the left with fields for 'Login ID' and 'Password', and a 'Login' button. On the right is a large blue banner with the 'Connect+' logo and 'PROACT' text, featuring a background image of a hand holding a tablet displaying a map, surrounded by various icons.

Connect+ Login

2.2 Log In with Single Sign-on

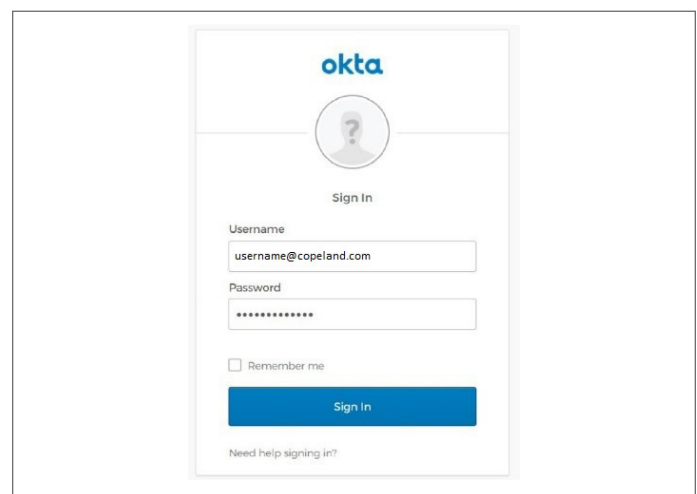
If the company enables the Single Sign-on, the company user can log into the Connect+ with the company credential.

In the login page, you will see a **Login with XXX** (XXX is the IDP Name which is configured in SSO configuration) button.

The image shows a login page with the title 'Login'. It has fields for 'Login ID' and 'Password', and a 'Login' button. Below the 'Login' button is the text 'Or' and a button labeled 'Login with okta'.

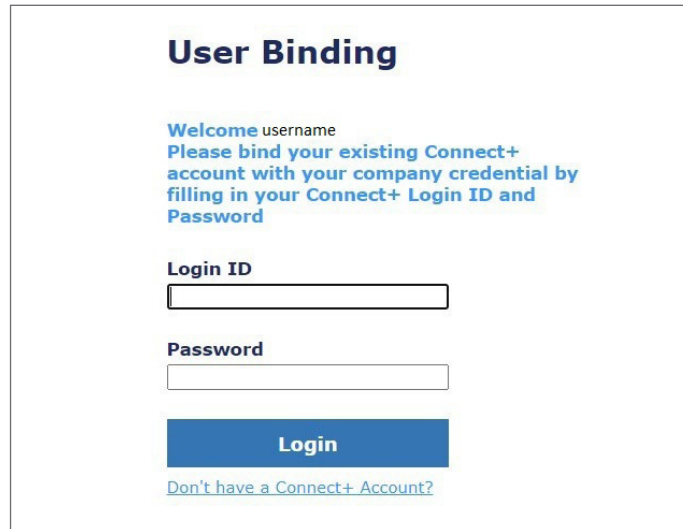
Connect+ Login with Single Sign-on

Click **Login with XXX** button to be redirected to company IDP Login page.

The image shows the Okta Single Sign-on Login page. It features the Okta logo at the top, followed by a 'Sign In' section. There is a 'Username' field with the value 'username@copeland.com', a 'Password' field, and a 'Remember me' checkbox. Below these is a 'Sign In' button. At the bottom, there is a link that says 'Need help signing in?'.

Single Sign-on Login

Input the company username and password then click the **Sign In** button. For the first time login, you will be redirected to the Connect+ user binding page after logging in to the company credential. The propose of this is to associate the Connect+ user with your company IDP user. After association, the existing Connect+ user's properties, like privilege, site permission, customized GS screen, will be assigned to the company IDP user.

A screenshot of a web form titled "User Binding". The form has a light blue header with the title. Below the title, there is a welcome message: "Welcome username" followed by a blue instruction: "Please bind your existing Connect+ account with your company credential by filling in your Connect+ Login ID and Password". There are two input fields: "Login ID" and "Password", each with a corresponding label above it. Below the input fields is a blue "Login" button. At the bottom of the form, there is a blue link that says "Don't have a Connect+ Account?".

User Binding

Welcome username
Please bind your existing Connect+ account with your company credential by filling in your Connect+ Login ID and Password

Login ID

Password

Login

[Don't have a Connect+ Account?](#)

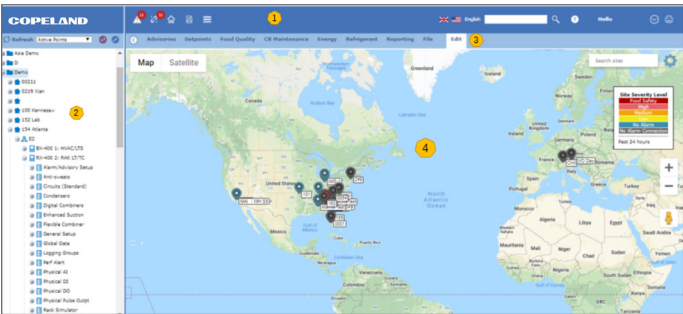
Single Sign-on User Binding

Input Connect+ Login ID and Password, then click the **Login** button to log into the Connect+ successfully. If you do not have a Connect+ account, click the **Don't have a Connect+ Account?** link under Login button.

The Connect+ user will automatically create an account with your First Name, Last Name and Email which is configured in IDP Server. You can also modify your user profile after login. Click the **OK** button in the pop-up message to log into the Connect+. After the Connect+ user is automatically created, you will be assigned with basic privileges and no site permission is assigned, contact your administrator to adjust it.

3. Navigate Connect+

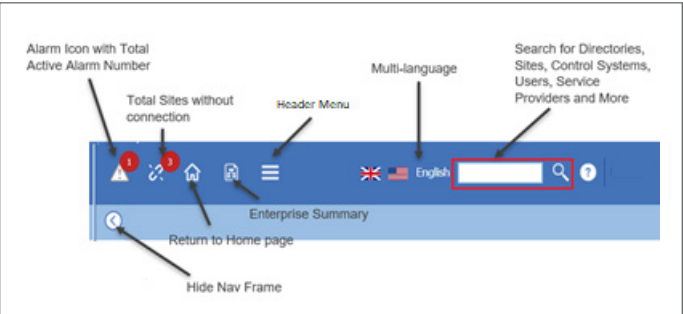
Once logged in, you will see the Connect+ UI is designed with four areas.



Navigation Panel

- **Area 1** contains main toolbar icons for you to access Enterprise Level Information, such as alarms, sites without alarm connection, Store/ Device Summary, Schedule Jobs, Global Search etc.
- **Area 2** is the Navigation Tree, which is set by your Administrator to reflect your Enterprise Hierarchy. The navigation tree starts from the Directory level, which reflects the region or banner you belong to, then the Site level, which reflect your stores. Under each store, you can review the controllers installed, down to the devices the controller controls and device attributes. When you right-click on each level in Navigation Tree, you will see the Right-Click Menu, which is provided to review information or perform activities to access controllers.
- **Area 3** is the Context Menu, which is associated with your Navigation Tree level. The Context Menu is same as the Tree Right-Click Menu.
- **Area 4** is the major Review area. When you click the enterprise toolbar and Navigation Tree rightclick menu or context menu, the information or controller activity progress/result would be displayed in this area.

3.1 Connect+ Enterprise Toolbar Navigation



Toolbar Navigation

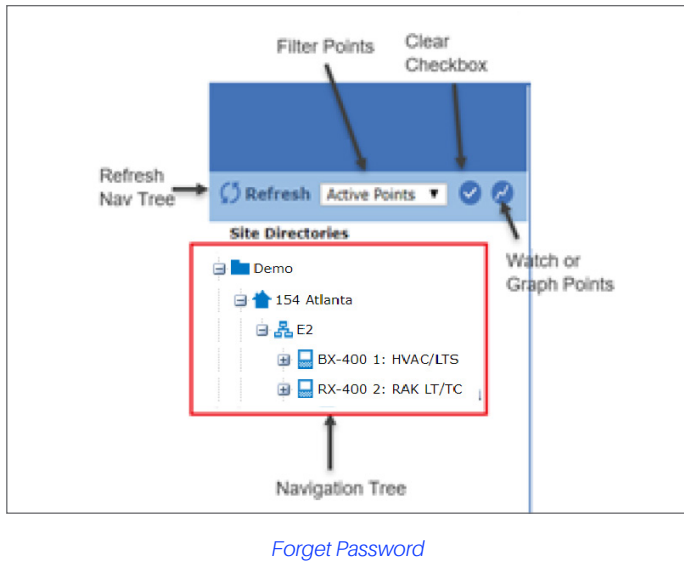
Table 1: Toolbar Navigation Legend

| | |
|--------------------------|---|
| Advisory | Count indicates the Total Number of Active Alarms in the Past 24 Hours. Users will be directed to View Advisories upon selecting. |
| Sites without Connection | Count indicates the total number of sites without connection in the past 24 Hours. Users will be directed to the Connection Verification Report upon selecting. |
| Homepage | Users will be directed to their own Connect+ Homepage once preferences are set. |
| Enterprise Summary | Enterprise Summary contains region, site, controller, and device information. |
| Header Menu | Access to Schedule Manager and Activity History to <ul style="list-style-type: none">• Schedule different activities to execute job on the controller.• View activity result and detail. |
| Language Setting | Allow user to change Language Setting |
| Global Search | Offers Global Search for your Site Homepage and global search for any sites, controller, devices, or points. |

NOTE: Details about Advisory Map, Advisory View, Site without Connection, List Power Builder, Schedule Manager, Enterprise Summary and Global Search would be covered in later sections.

3.2 Store Hierarchy by Navigation Tree

As you can see from the Navigation Tree of Connect+ landing page interface, a store hierarchy is reflected by the Tree listed with the concept of **Directory, Site, Control System, Unit, Application Type, Application and Point**.



3.2.1 Definition of Tree Hierarchy

Directory

Directory is a region or a banner of a customer. Connect+ offers a sub-directory under the parent directory to reflect a customer's own organization structure.

Sites

Sites are stores in a customer's organization. One site belongs to only one Directory.

Control System

A control system is a set of controllers within one localized store. A typical grocery store control system would contain building management controllers and refrigeration controllers.

Unit

A unit is an individual controller at a site belonging to a control system. There may be more than one unit in each control system. One controller would be configured as the gateway in the control system to communicate with Connect+.

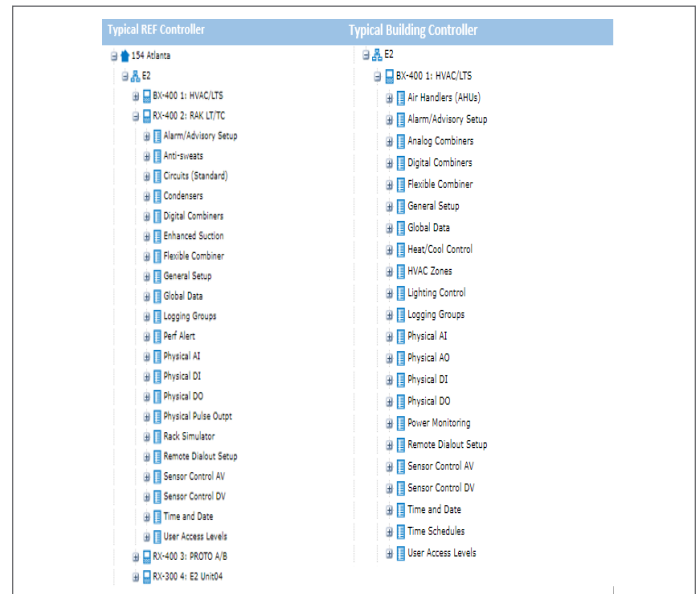
Application Type

An application type is the type of application that has been set up inside a unit (controller). There are many types of applications programmed into the controller. All application types contain applications that belong to the same application type.

Application types range from **physical applications** that connect to a real device, such as air handlers, standard circuit, sensor control analog and digital combiners.

Or **logical applications** such as zones, power monitoring, global data, time and dates, time schedules, user access and more.

See below for a REF Controller Application Types and Building Controller Application Types examples:



Application Types

Application Instance

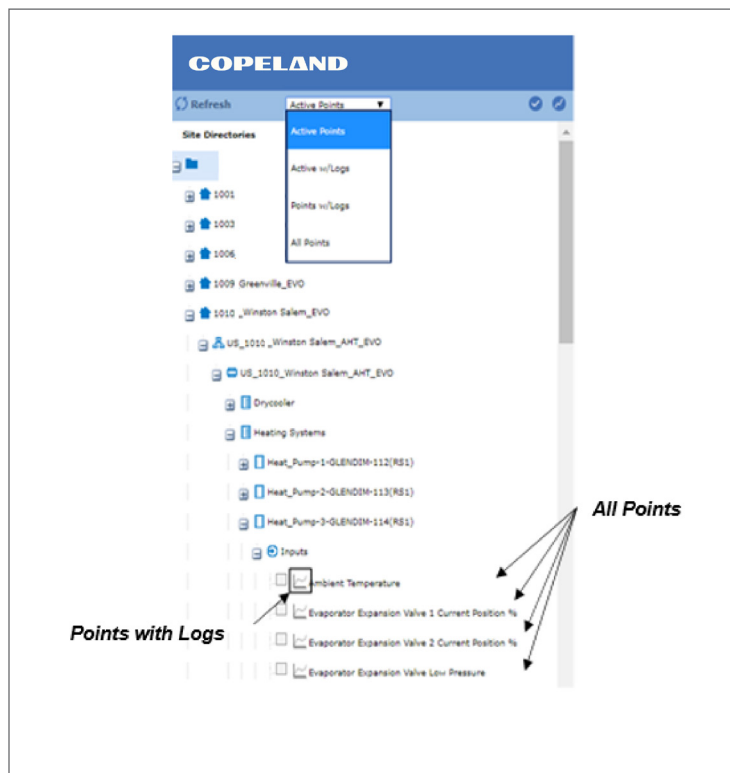
An application instance shows the application (if available) that has been programmed inside a controller to access a physical device or define the controller setting. Through the application instance, users can either access a physical device's data points, such as an ice cream case controller. Or access to applications that are programmed to configure the controller, such as user access or alarm settings.

Point

Application points are attributes that have been programmed inside a controller application. Access to application points allows the user to view details about the points, graph points, retrieve logs, and make changes. In Connect+, there are three categories of points: Input, Output or Parameters.

An input point can be associated with an output point of the same data type, and vice versa (for example, digital outputs to digital inputs, analog inputs to analog outputs). An input point cannot be associated to another input point, likewise, an output point cannot be hooked to another output point.

- **Active Points** is the default each time the user starts up the browser and will show all configured points in the controller.
- **Active with Logs** shows active points that have a controller log available.
- **Points with Logs** shows points that have a controller log available.
- **All Points** shows all possible points for an application instance, whether a point is configured or not. An icon will appear next to the point if the point has a log.



Active Points

3.2.2 Tree Levels

- **Advisory View:** At any level, you will have access to Advisory View, which allows you to review advisories for a region, store, controller, or device.
- **Graphical Screens:** You can also access different summary information at each level, which is illustrated as System Graphical Screens.
- **Controller Access:** You can only access a controller at the control system level and controller level. From the controller level, you can remote login using Terminal Mode.
- **Controller Activity:** you can perform three types of job at different levels:
 - » **Any Level:** Retrieve logs
 - » **Directory/Site/Control System/Controller Level:** Obtain controller information
 - » **Controller Level:** Refresh application
 - » **Application Type Level:** Refresh point list
 - » **Application Level:** Manual defrost freezer or cases
 - » **Point Level:** Override/modify point value, display log/real time graph

Table 2: Tree Levels

| Tree Level | System Screens | Controller Activity | Controller Access |
|----------------|--|---|--|
| Directory | Advisory Map | Obtain Controller Information Retrieve Logs | NA |
| Site | Ref Summary Building Summary Other Summary | Obtain Controller Information Retrieve Logs | NA |
| Control System | NA | Obtain Controller Information Refresh Units Retrieve Logs | View Network Status |
| Unit | Controller Summary | Obtain Controller Information Refresh Units Retrieve Logs | Terminal Mode View Network Status Controller Logs & Status |
| App Type | App Summary Defrost Summary | Refresh Point List Retrieve Logs | NA |
| Application | Status Graphical Summary | Refresh Point List Retrieve Logs | NA |
| Point | NA | Override Modify Display Log Graph Real Time Graph | NA |

3.3 Menu Access Summary

In addition to the top menu and tree hierarchy right-click menu, you can also access the right-click menu from the **Graphical Screen or Watch Point Lists**.

Below table summarizes menu access for advisory and controller activity at each entry point:

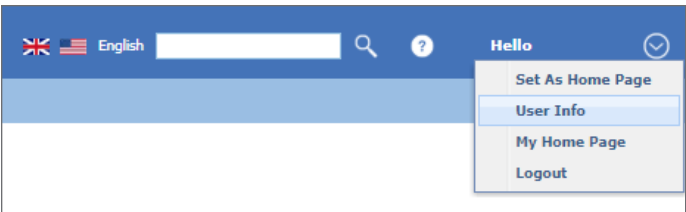
Table 3: Menu Access Summary

| | Top Menu | Tree Right-Click Menu | Graphical Screen Right-click Menu | Watch Point Right-click Menu |
|---------------|--|---|---|---|
| Advisory View | Enterprise | Any Level | Point Level | Point Level |
| | Run Once or Schedule | Only Run Once from Right-Click Menu | | |
| Activity | From Schedule Manager, user can choose Run Once or Run by Schedule | Retrieve Logs Obtain Controller Info Refresh Units Refresh Application Refresh Point List Manual Defrost Override Modify Display Log Graph Real Time Graph | Retrieve Logs Override Modify Display Log Graph Real Time Graph | Retrieve Logs Override Modify Display Log Graph Real Time Graph |

3.4 Complete My Profile and Set Preference

3.4.1 Profile & Preference

You might want to check your User Info to complete and set preferences. Click the icon next to your name and then click **User Info**.



User Info

Complete Email

If you do not currently have an email, we recommend you enter that information. Without email information:

- You cannot receive emails from Connect+ when you forget a password or forget the login ID process.
- You also cannot receive the verification code during login if your organization decides to turn on Multifactor Authentication.

Updated Password

If your organization has activated Reset Password Every 90 days, you will be reminded to update your password when your current password is expiring within 14 days.

User Information

Login ID

f

First Name

Fa

Last Name

D

Update Your Password

Current Password

New Password

Retype New Password

E-mail

yourname@email.com

Preferences

☐ Show GS Screen Edit Tool

☒ Enable Home Page

Current Home Page: System Advisory Screen

☐ Hide Nav Frame

☒ Enable GS Screen Auto Log Off

Cancel

Save

Units

English

Metric

Global

Temperature

Fahrenheit (DF)

Temp. Change

Delta Fahrenheit (DDF)

Temp. Rate Change

degrees F/hour (DFH)

Pressure, Large

pound/sq in (PSI)

Pressure, Small

in of water (INW)

Velocity, Air

feet/minute (FPM)

Velocity, Liquid

gallons/minute (GPM)

Liquid Volume

gallons (GAL)

Volume Flow

cubic feet/minute (CFM)

Current

amperes (A)

Light

foot-candles (FTC)

Weight

pounds (LBS)

Enthalpy

Btu/lb

Update Your Password

Setting Preferences

- **Show GS Screen Edit Tool:** This allows GS Screen menu visible on the right-click tree menu, default is not enabled.
- **Enable Home Page:** This allows you to set your Connect+ Homepage, default is not enabled.
- **Hide Nav Frame:** This allows you to hide the Navigation Tree. Default is a visible Navigation Tree.
- **Enable GS Screen Auto Logout:** This allows you automatically logged off due to GS Screen page inactivity for 30 minutes.
- **Engineering Units:** English/Metric/Global; default is set to English Units.

User Information

Login ID

f

First Name

Fa

Last Name

D

Update Your Password

Current Password

New Password

Retype New Password

E-mail

youname@email.com

Preferences

Show GS Screen Edit Tool

Enable Home Page

Current Home Page:

System Advisory Screen

Hide Nav Frame

Enable GS Screen Auto Log Off

Cancel

Save

Units

English

Metric

Global

Temperature

Fahrenheit (DF)

Temp. Change

Delta Fahrenheit (DDF)

Temp. Rate Change

degrees F/hour (DFH)

Pressure, Large

pound/sq in (PSI)

Pressure, Small

in of water (INW)

Velocity, Air

feet/minute (FPM)

Velocity, Liquid

gallons/minute (GPM)

Liquid Volume

gallons (GAL)

Volume Flow

cubic feet/minute (CFM)

Current

amperes (A)

Light

foot-candles (FTC)

Weight

pounds (LBS)

Enthalpy

Btu/lb

Enable GS Screen

- You can set your language preference directory from the enterprise toolbar. Currently you can choose English or Spanish.



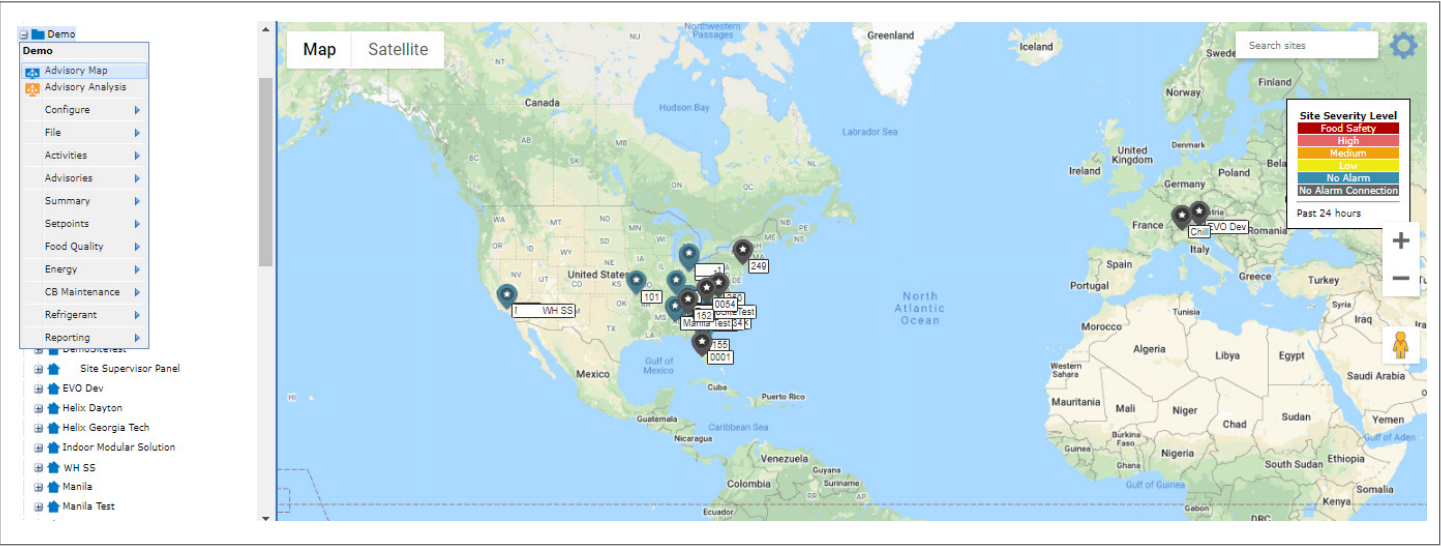
Language Preference

3.4.2 Set Connect+ Homepage

When you enable the Homepage setting, you will see the Set as Homepage menu option when you click the user profile icon next to your name. Currently Connect+ allows you to set Graphical Screens as your Connect+ Homepage.

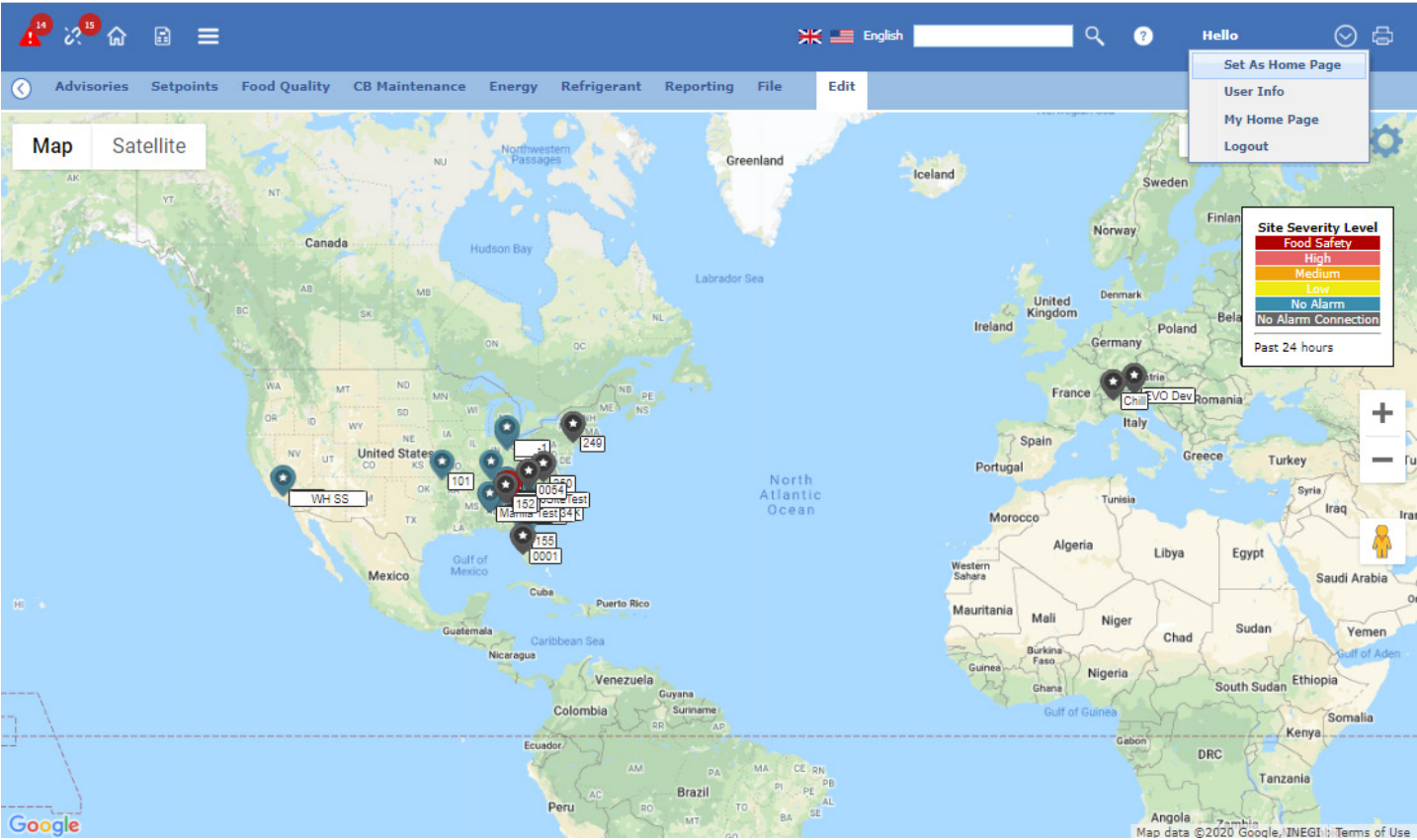
We recommend you set the Enterprise Advisory Map as your Connect+ Homepage to better optimize your Enterprise overall performance.

If Advisory Map has been enabled for your organization, you can access Advisory Map at the Directory level. Click your organization’s parent directory, or access from right-click menu > **Advisory Map**.

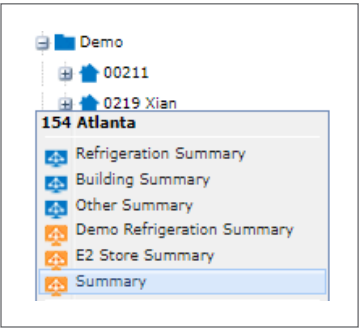


Advisory Map Page

When you are on the Advisory Map page, you will see all sites in different alarming states. Advisory Map allows you to have a quick glance on your Sites' status in the past 24 hours. Click **Set As Home Page** from the user profile icon next to your name.



Graphical Screen



You can also set other Graphical Screens as your Homepage. As introduced in the What is Connect+ session, Graphical Screens are Floor Plans or Summary Screens for real time store monitoring. You can access these Graphical Screens from the Navigation Tree, when you right-click on any level, you will see a list of System Summary Screens indicated with blue icon, and customized graphical screens with an orange icon.

Open any Graphical Screen at any tree level, then click **User Profile > Set As Homepage**, then the Graphical Screen will be set as your Connect+ Homepage.

NOTE: You can also set Homepage for each site, this will be covered when we review more details into Graphical Screen Session.

3.5 Manage Your Own List

A list contains points that you are interested in. You have flexibilities to choose your preferred points from different stores, controllers for same application type to compare store performance. Or you can also select a number of points for a single store or controller to monitor.

You can also create list for yourself via **List Power Builder**. Access List Power Builder from the link of Watch or Graph Points page.

Watch Or Graph Points

Select points to watch or graph by using the checkboxes in the tree.

Load Selection from list

...select list...

Notes:
Disabled point names indicate points which only have logs and cannot retrieve real time values.

List Power Builder

Watch or Graph Points

Watch Points Lists

Select a list to load or type in a new List Name to create a new List.

Load List

...select list...

List Name

Criteria

Use * (asterisk) for wildcard at the start or end of a match string. Separate multiple matches in a single field with commas. Additional Help

Directory

Site

Control System

Unit

Application Type

Application Instance

Point Category

Point

Active w/Logs

Add To List

List Size: 0

| No. | Dir | Site | CS | Unit | App Type | App Inst | Category | Point |
|-----|-----|------|----|------|----------|----------|----------|-------|
| | | | | | | | | |

List Power Builder

You can create and save a new list in Watch Point Lists page (refer to *Section 10 List Power Builder*), all the lists will be shown in the **Load Selection from** list drop-down. You can choose one desired list to view the points value.

Watch Or Graph Points

Select points to watch or graph by using the checkboxes in the tree.

Load Selection from list

...select list...

Notes:
Disabled point names indicate points which only have logs and cannot retrieve real time values.

List Power Builder

Choose one List

4. View Enterprise Summary

If you want to have an overall understanding of your Enterprise Assets such as:

- How many stores do I have?
- How many controllers do I have?
 - » How many are building controllers?
 - » How many are Ref Controllers?
 - » How many are E2 and how many are Site Supervisor?
- How many Case Controllers do I have?
- How many Rooftop Units do I have?

The Enterprise Summary in the toolbar menu is the right place for you to find these answers.



You can view the Enterprise Summary from a Directory to Application Instance. Each contains different information.

Enterprise Summary

View By: ☐ Directory ☐ Site ☐ Control System ☒ Unit ☐ Application Type ☐ Application Instance Show 25 ▼

| Unit | Directory | Site | Control System | Model and Series | Controller Version | Gateway | Number of Backups to Ke... | Number of Backups Impl... | Last Backup Time |
|----------------------|------------|------------------|----------------|--------------------|--------------------|---------|----------------------------|---------------------------|------------------|
| XWEB name | Demo | | XwebEVO | V.STANDARD 7 | | Unknown | 4 | 0 | |
| TEST | Demo | 54 Charlotte | Xweb500 | 2.2.1_OS Ver:2.0.0 | | Unknown | 4 | 0 | |
| Xweb5000EVO | Demo | | XWEB EVO Fiera | V.STANDARD 12 | | | | | |
| Jenny9 | Demo | EVO Dev | Xweb EVO | V.STANDARD 10 | br-2014.08 | | | | |
| Jenny9 | Demo | XwebEVO | Xweb EVO | V.STANDARD 10 | br-2014.08 | | | | |
| US_1001_L_Bon Air... | L | 1001 | Xweb EVO | V.11 | br-2014.08 | | | | |
| US_1003_L_Newport... | L | 1003 | Xweb EVO | V.11 | br-2014.08 | | | | |
| US_1006_L_Suffolk... | L | 1006 | Xweb EVO | V.11 | br-2014.08 | | | | |
| La55S 152 | | Bahama Site | Test | CX | 2.14807 | | | | |
| E2 Unit02 | Demo | 100 Kennesaw | TechSupport | RX-400 | 4.09F04 | | | | |
| SS Unit01 | Supervisor | New Site | sup | RXe | 2.07F01 | | | | |
| SUITE 170 | Demo | 100 Kennesaw | Suite 100 | BX-300 | 4.10F01 | | | | |
| HVAC | Demo | 100 Kennesaw | Suite 100 | BX-400 | 4.09B63 | | | | |
| Rack A | Demo | 250 Wake Forrest | SS Peer | CXe | 2.12B36 | | | | |

Columns: ☒ Unit ☒ Directory ☒ Site ☒ Control System ☒ Model and Series ☒ Controller Version ☒ Gateway ☐ Monitoring Master ☐ Annunciator ☒ Number of Backups to Keep ☒ Number of Backups Implemented ☒ Last Backup Time

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Enterprise Summary

With the Advisory View, you can sort, filter and add more columns for your review. You can also export to Excel, PDF or HTML file types.

5. Advisory Map, Advisory View and Live Advisories

Advisories are defined as the notifications or alarms generated from Controllers to report store a crisis. Currently Connect+ support receives Advisories directly from Copeland Controllers E2, Site Supervisor, and XWEB. Connect+ can also receive Advisories from Danfoss if a Danfoss Site is sending an alarm to Copeland ProAct Alarm Service.

Advisory Type by Controller:

- E2: Alarm, Device Failure, Notice
- Site Supervisor: Critical, Non-Critical, Notice
- XWEB: NA
- Danfoss: Severe, Critical, Normal, Log Only

Advisory State:

Each advisory in Connect+ would have two states: Active or Return to Normal.

An advisory would remain active until the condition to generate the advisory returns to normal.

Active

Advisory occurs when a controller generates the alarm based on Alarm parameter configured. Alarm Parameters involved in Advisory Occurrence are High/Low limit and Alarm Delay.

For example, a technician can configure Case Controller Temperature Alarm Hi/Low limits for the normal temperature range and a 10-minute Alarm Delay. Once temperature is above or below setpoint, even above Hi Limit or below Low Limit, the controller will wait until the Alarm Delay passes, then generate the alarm.

The alarm will remain Active from the Advisory Occurrence Time until the point value returns to normal.

Return to Normal

An advisory will Return to Normal once the point value is back inside the normal range. There is another Alarm Configuration that will affect Advisory Return to Normal time: Alarm Hysteresis. When Alarm hysteresis is configured, the advisory will change to state Return to Normal only when current point value is in range of (Hi Limit – Alarm Hysteresis) and (Low Limit + Alarm Hysteresis).

Advisory Priority:

Advisory Priority is a concept with Copeland Controllers. Connect+ provides the same concept for these controller types:

- E2 1-99
- E3 and Site Supervisor 1-99
- XWEB 1-99
- Danfoss NA

Urgency Level

Urgency Level is a Connect+ defined Advisory Property. When you have multiple controllers across an organization, it is difficult to tell which advisories need your immediate attention with different advisory definitions for different controllers.

In order to solve this problem, Connect+ defined Urgency Levels as shown below. This allows users to have a consistent view of an advisory's severity. Currently the definition is default in Connect+:

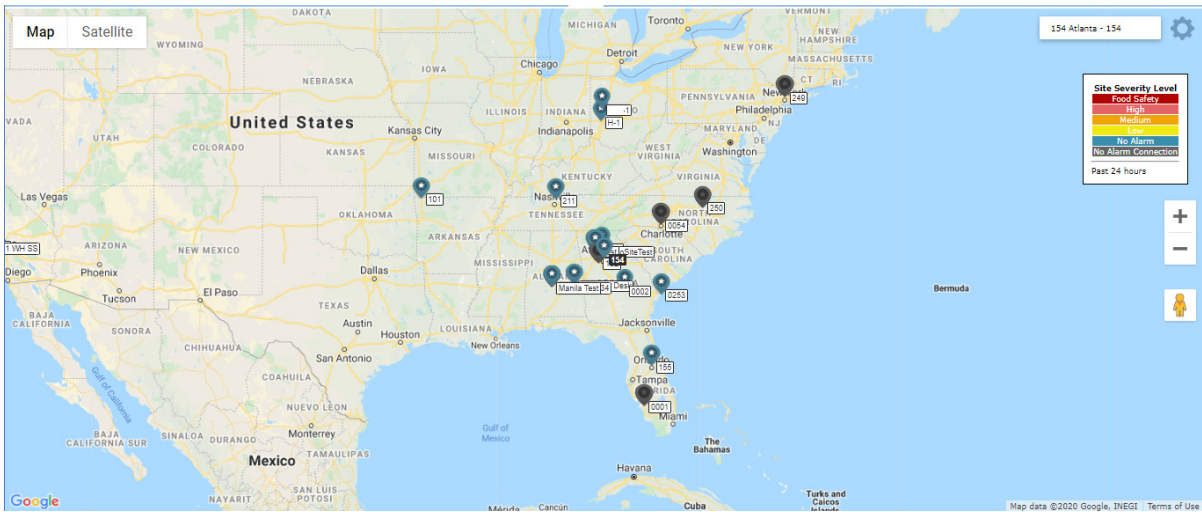
| Advisory Priority for E2, E3, Site Supervisor and XWEB | | | |
|--|----------|--------|------------------------------|
| Urgency | Priority | State | Example Alarm Type |
| High | 1 to 20 | Active | Room Temp Alarm |
| Food Safety | | | Case Temp and Prod Temp |
| Medium | 21 to 50 | | Heat Pump Status Block Alarm |
| Low | 51 to 99 | | HRC Alarm from Heat Pump |
| Low | 1 to 99 | RTN | |

| Advisory Priority for Danfoss | | |
|-------------------------------|--------------------|--------|
| Urgency | Type | State |
| High | Severe or Critical | Active |
| Medium | Normal | |
| Low | Log Only | |
| Low | Any | RTN |

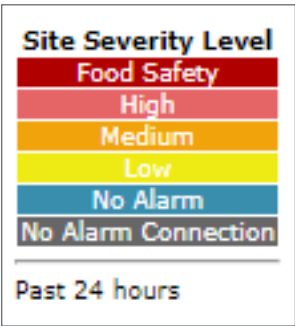
5.1 Advisory Map

5.1.1 Access problematic stores via Advisory Map

If your organization has enabled Advisory Maps, when you click on the parent directory in the Navigation Tree, you will see an Advisory Map as shown below with the Advisory Urgency legends. You can set this page as your Connect+ Homepage for Enterprise View.



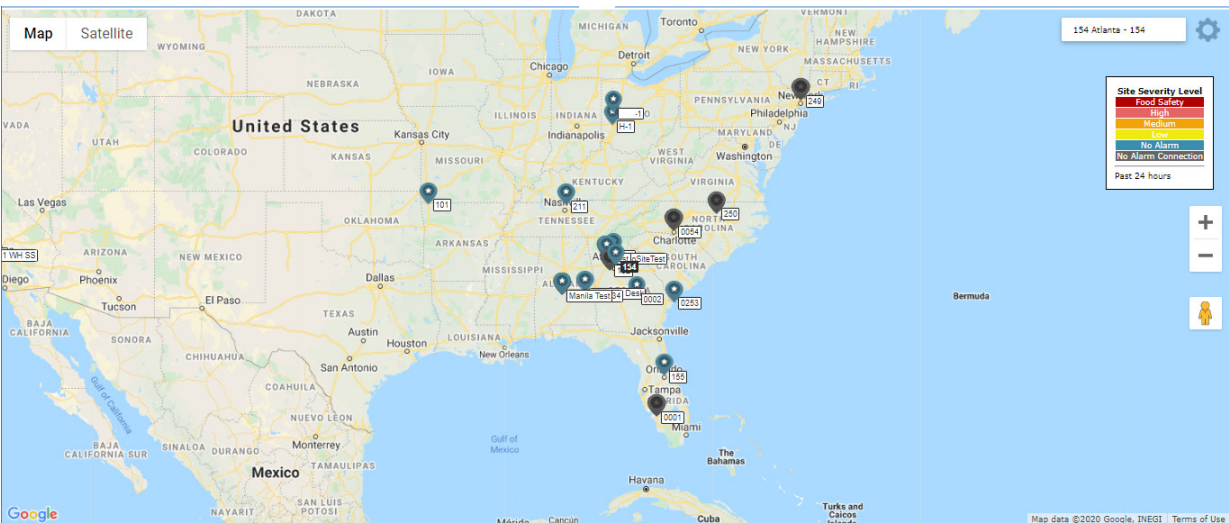
Advisory Map



Sites in the Advisory Map are indicated with Alarm Urgency Level in the past 24 hours. You can click on any problematic sites to further investigate based on the below legends:

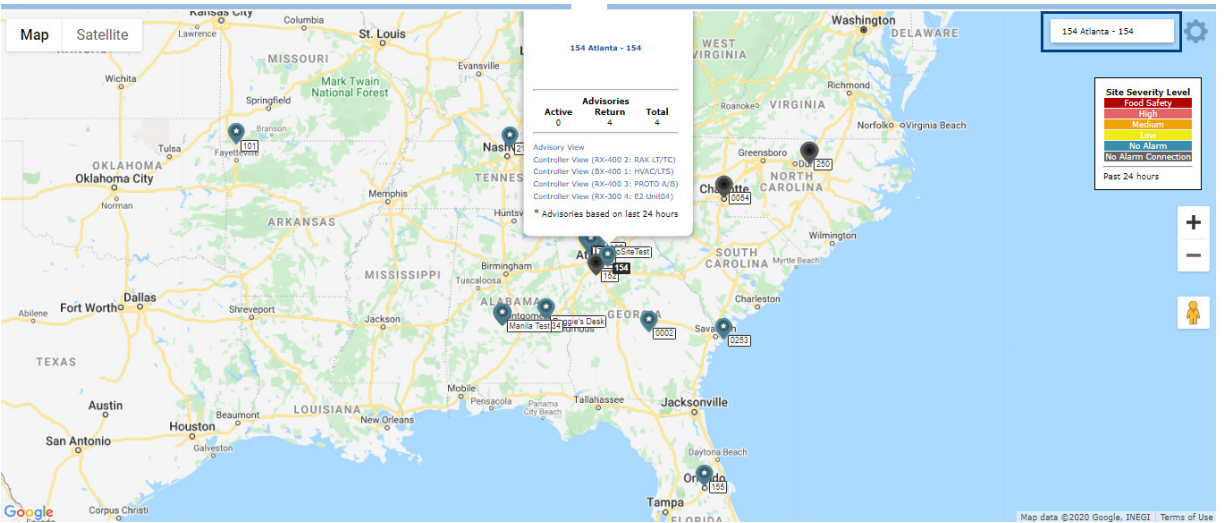
- Red indicates Sites with Food Safety Alarms/High Alarms
- Orange indicates sites with medium urgency Alarms
- Yellow Indicates sites with low urgency Alarms
- Green indicates sites that does not have active Alarms
- Gray and flashing indicates s there is no Alarm Connection

If you know your Site Name, you can also enter the site name in the search box. The search result will flash for five (5) seconds on the Advisory Map for you to check further details.

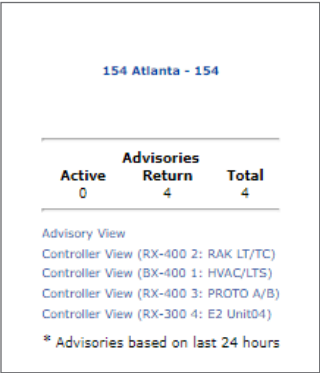


Search Box

Clicking on the Site, you will see a snapshot of the Site, which includes Site Name, Site Address, and several quick links.



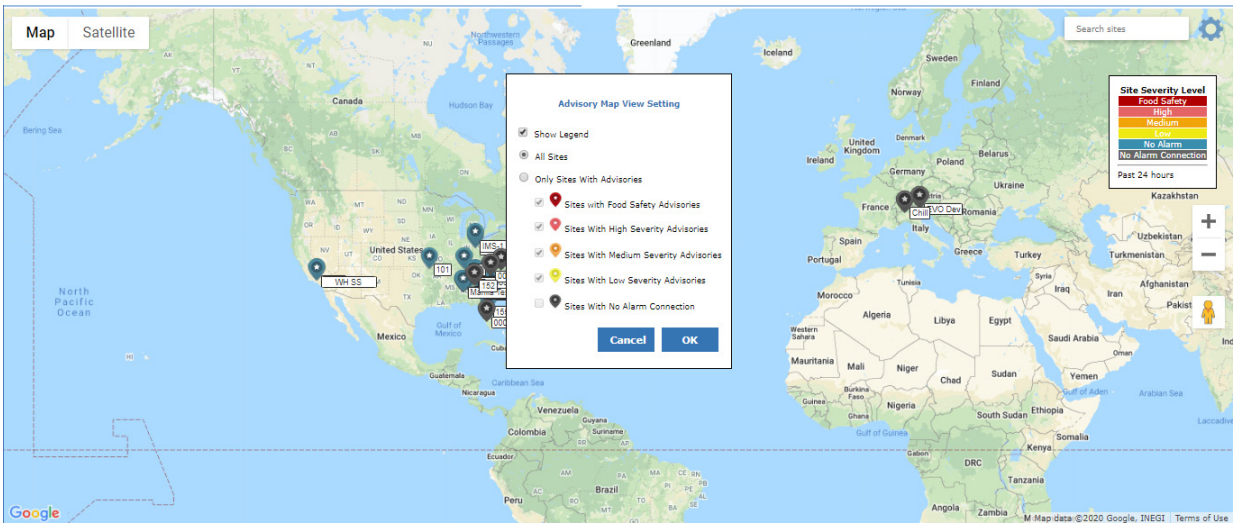
Site Snapshot



- When clicking **Site Name**, you will be directed to your Site Home Screen if set.
- When clicking **Advisory View**, you will be directed to View Advisories.
- When clicking **Controller View**, you will be logged into the controller’s Terminal Mode.

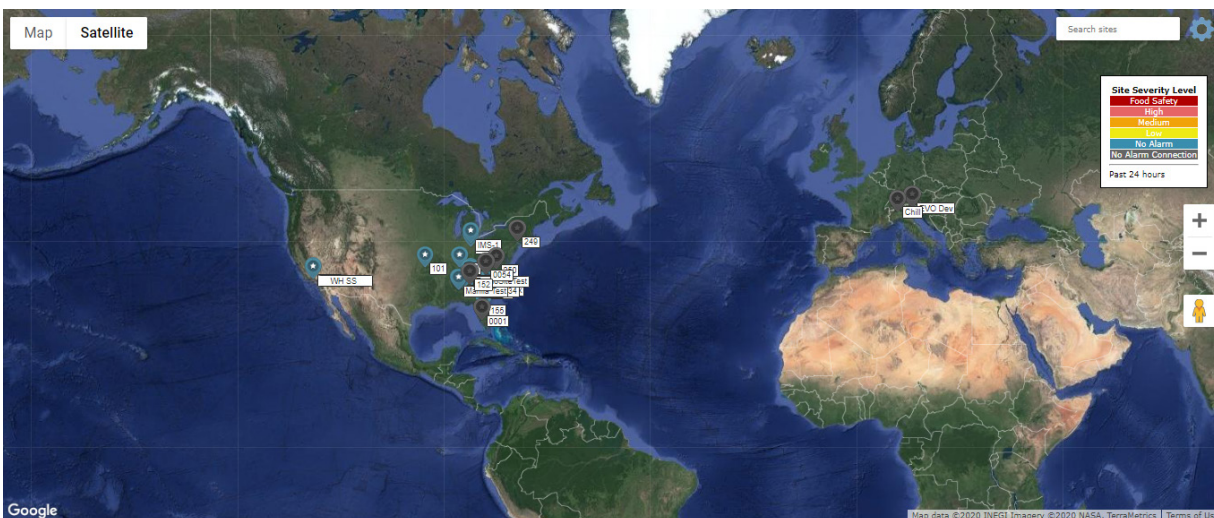
Advisory Map View allows you to review your stores and locate problem sites as quickly as possible. The quick links for each site provides access to locate the advisory information and take further actions. From Advisory View, you can review Alarm Details and Log Graph. From the controller View, you can access Terminal Mode if you need to change settings to clear the alarm.

5.1.2 Your Advisory Map Setting



Advisory Map Setting

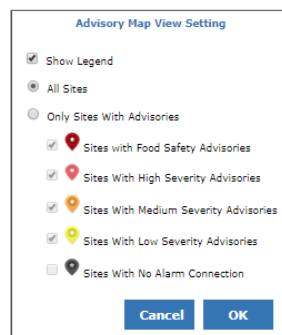
1. **Map or Satellite View:** Allows you to switch Google Map View or satellite view. With satellite view, you can review a real time picture of your stores, see roof top units if available, and more.



Map or Satellite View

2. **Setting:** If you have a large number of stores, your Advisory Map may appear full. You can filter your stores in the Advisory Map to have focused views.

Once you click **OK**, your Advisory Map Preference will be saved. When you view the Directory Advisory Map again, it will only show the sites with your preferences.



5.2 Advisory View

The enterprise toolbar alarm icon provides a quick overview on **how many total active alarms you have across your stores in the past 24 hours**. Whenever there is new alarm received by Connect+, the number will add and flash for several seconds.



Advisory View Legend

5.2.1 Advisory List View

You can access the **Advisory List View** when you click this tool bar. As Advisory Map View, the Advisory List View is organized by Advisory Urgency Level. Mouse over the **Urgency** button to see the definition of each urgency level.

Advisories View

High 12

Food Safety 1

Medium 0

Low 1

All

Occurrence Date | Past 24 Hours | Time Perspective: | Site Time | Show 25

Reset Filters

Refresh Advisories

Restore Default Format

| A... | State | Occurrence Date | Age | Site | Type | Advisory Message | Source | Prio... | Application Insta... | Source Type | Status | Point | Limit |
|------|--------|--------------------|--------|------|--------|---------------------------------------|------------------|---------|----------------------|--------------|----------|-------------------|-------|
| | Active | 4/25/2020 8:29 AM | 10.5 h | | Alarm | Case Temp Hi Limit Exceeded | CASE TEMP 2 | 20 | A12 50K BEER | Device | Accepted | CASE TEMP 2 | 48.0 |
| | Active | 4/25/2020 9:46 AM | 16.2 h | | Fail | Controller Not Sending Alarms sinc... | XWEB EVO Fiera | 10 | | System | Accepted | | |
| | Active | 4/25/2020 12:09 AM | 19.9 h | | Notice | Compressor Cycle Rate Exceeded | CYCLE RATE ST... | 60 | Back C Suction | CB Mainte... | Accepted | CYCLE RATE STA... | 240.0 |
| | Active | 4/24/2020 10:46 PM | 21.2 h | 1003 | Fail | Controller Not Sending Alarms sinc... | Xweb | 10 | | System | Accepted | | |
| | Active | 4/24/2020 10:46 PM | 21.2 h | 1006 | Fail | Controller Not Sending Alarms sinc... | Xweb | 10 | | System | Accepted | | |
| | Active | 4/24/2020 10:46 PM | 21.2 h | 1001 | Fail | Controller Not Sending Alarms sinc... | Xweb | 10 | | System | Accepted | | |
| | Active | 4/24/2020 10:46 PM | 21.2 h | | Fail | Unknown Code: 20,001 (Controller... | Danfoss | 10 | | System | Accepted | | |
| | Active | 4/25/2020 4:46 AM | 21.2 h | | Fail | Controller Not Sending Alarms sinc... | Xweb | 10 | | System | Accepted | | |
| | Active | 4/25/2020 4:46 AM | 21.2 h | | Fail | Controller Not Sending Alarms sinc... | Xweb | 10 | | System | Accepted | | |
| | Active | 4/25/2020 8:16 AM | 21.2 h | | Fail | Controller Not Sending Alarms sinc... | Controls 2 | 10 | | System | Accepted | | |
| | Active | 4/24/2020 10:46 PM | 21.2 h | | Fail | Controller Not Sending Alarms sinc... | Xweb500 | 10 | | System | Accepted | | |
| | Active | 4/25/2020 4:46 AM | 21.2 h | | Fail | Controller Not Sending Alarms sinc... | Xweb EVO | 10 | | System | Accepted | | |
| | Active | 4/24/2020 9:46 PM | 22.2 h | | Fail | Unknown Code: 20,001 (Controller... | | 10 | | System | Accepted | | |

Advisory List View

Table 4: Advisory List

| Column Name | Description |
|------------------|---|
| Occurrence Date | Shows the date and time when the advisory was generated on controller |
| Received Date | Shows the date and time when the advisory was received in Connect+ |
| Alarm Age | Shows advisory duration. <ul style="list-style-type: none">If the advisory is still active, Alarm Age = Current Date time – Occurrence Date.If the advisory is return to normal, Alarm Age = Return to Normal Date – Occurrence Date |
| RTN Date | Shows the date time when the advisory is back to normal. |
| Source | Shows controller, application, and property information from where the advisory was generated. |
| Source Type | Connect+ will also generate advisories in addition to controllers. Such as Controller Offline Alarm, Predictive Maintenance Alarm, and more. Source Type indicates if it is from the controller or Connect+ Apps |
| Point | Shows the point from which the advisory was generated. |
| Limit | Shows the high or low limit the advisory will exceeded to generate the advisory. This is usually configured by your Technician during commissioning phase on the Controller. |
| Trip Value | Shows the point value when advisory is generated. |
| Advisory Message | Shows an explanation of the advisory. This is usually configured by your Technician during commissioning phase on the Controller |
| Add Comment | Users can enter a comment for the selected advisory |
| Comment | Shows the latest comment a user entered. |
| Type | Different controllers using different Type to categorize Alarm Severity. <ul style="list-style-type: none">E2: Alarm, Fail & Notice for E2Site Supervisor: Critical, Non-critical and Notice |
| Priorities | It shows urgency level of advisories as numerical (1-99). It is configurable in Controller |

5.2.2 Read Alarm Related Log Graph

From Advisory List View, you can access the **Advisory Detail Information** and login to the controller if needed.

- Access Point Log Graph from Advisory Message link

From Advisory View, you can only see alarm-related points log graph. The same applies to log graph in advisory email. You can read multiple points Log Graph from Watch Points and Graphical Screens, which will be introduced in a later session.



Log Graph

The information below will help you to read the Log Graph:

Table 5: Reading the Log Graph

| Item | Description |
|-----------------|---|
| Log Graph Range | Set the time range of the data to show points logged in a graph. |
| Alarm Status | Shows advisory points and its related points value and alarm status |
| Point Log | Shows advisory point and its related points log in graph. |
| Defrost Cycle | Shows defrost status in graph |
| Setting | You can choose time perspective, download, print, and save log graph date range as default. |

5.2.3 Other Quick Links

From Advisory List View, there are other quick links to:

- Access Site Home Screen from Site Link
- Access Controller Summary Screen from Unit Link
- Access Application Summary Screen from Application Type Link

5.2.4 Filter Advisory List View

Filter Advisory List by Urgency Level or Occurrence Time:

Advisories View

High 12

Food Safety 1

Medium 0

Low 1

All

Occurrence Date

Past 24 Hours

Time Perspective

Site Time

Show 25

Reset Filters

Refresh Advisories

Restore Default Format

| A... | State | Occurrence Date | Age | Site | Type | Advisory Message | Source | Prio... | Application Insta... | Source Type | Status | Point | Limit |
|------|--------|--------------------|--------|------|-------|---------------------------------------|--------|---------|----------------------|-------------|----------|-------------|-------|
| | Active | 4/23/2020 8:29 AM | 10.6 h | | Alarm | Case Temp Hi Limit Exceeded | | 20 | A12 SOK BEER | Device | Accepted | CASE TEMP 2 | 48.0 |
| | Active | 4/25/2020 9:46 AM | 16.3 h | | Fail | Controller Not Sending Alarms sinc... | | 10 | | System | Accepted | | |
| | Active | 4/24/2020 10:46 PM | 21.3 h | | Fail | Controller Not Sending Alarms sinc... | | 10 | | System | Accepted | | |
| | Active | 4/24/2020 10:46 PM | 21.3 h | | Fail | Controller Not Sending Alarms sinc... | | 10 | | System | Accepted | | |
| | Active | 4/24/2020 10:46 PM | 21.3 h | | Fail | Controller Not Sending Alarms sinc... | | 10 | | System | Accepted | | |
| | Active | 4/24/2020 10:46 PM | 21.3 h | | Fail | Unknown Code: 20,001 (Controller... | | 10 | | System | Accepted | | |
| | Active | 4/25/2020 4:46 AM | 21.3 h | | Fail | Controller Not Sending Alarms sinc... | | 10 | | System | Accepted | | |
| | Active | 4/25/2020 8:16 AM | 21.3 h | | Fail | Controller Not Sending Alarms sinc... | | 10 | | System | Accepted | | |
| | Active | 4/24/2020 10:46 PM | 21.3 h | | Fail | Controller Not Sending Alarms sinc... | | 10 | | System | Accepted | | |
| | Active | 4/25/2020 4:46 AM | 21.3 h | | Fail | Controller Not Sending Alarms sinc... | | 10 | | System | Accepted | | |
| | Active | 4/24/2020 9:46 PM | 22.3 h | | Fail | Unknown Code: 20,001 (Controller... | | 10 | | System | Accepted | | |

Filter Advisory List

Filter Advisories by Filed Filter: For example, if you enter “Case Temp” in the **Advisory Message** field, you will filter all the alarms with an advisory message that contains “Case Temp”.

Advisories View

High 1

Food Safety 1

Medium 0

Low 0

All

Occurrence Date

Past 24 Hours

Time Perspective

Site Time

Show 25

Reset Filters

Refresh Advisories

Restore Default Format

| A... | State | Occurrence Date | Age | Site | Type | Advisory Message | Source | Prio... | Application Insta... | Source Type | Status | Point | Limit |
|------|--------|-------------------|--------|------|-------|-----------------------------|--------|---------|----------------------|-------------|----------|-------------|-------|
| | Active | 4/25/2020 8:29 AM | 10.7 h | | Alarm | Case Temp Hi Limit Exceeded | | 20 | A12 SOK BEER | Device | Accepted | CASE TEMP 2 | 48.0 |

Filter Advisories

5.2.5 Customized Advisory List View

You can customize your Advisory List View by:

- Adding or removing more columns as indicated below.
- Dragging the column header to reorganize your field sequence.
- Clicking each column header to sort the list.

Your preferences will be saved for future viewing.

Occurrence Date

Past 24 Hours

Time Perspective

Site Time

Show 25

Reset Filters

Refresh Advisories

Restore Default Format

| A... | State | Occurrence Date | Age | Site | Type | Advisory Message | Source | Prio... | Application Insta... | Source Type | Status | Point | Limit |
|------|--------|--------------------|--------|------|-------|---------------------------------------|--------|---------|----------------------|-------------|----------|-------------|-------|
| | Active | 4/23/2020 8:29 AM | 10.6 h | | Alarm | Case Temp Hi Limit Exceeded | | 20 | A12 SOK BEER | Device | Accepted | CASE TEMP 2 | 48.0 |
| | Active | 4/25/2020 9:46 AM | 16.3 h | | Fail | Controller Not Sending Alarms sinc... | | 10 | | System | Accepted | | |
| | Active | 4/24/2020 10:46 PM | 21.3 h | | Fail | Controller Not Sending Alarms sinc... | | 10 | | System | Accepted | | |
| | Active | 4/24/2020 10:46 PM | 21.3 h | | Fail | Controller Not Sending Alarms sinc... | | 10 | | System | Accepted | | |
| | Active | 4/24/2020 10:46 PM | 21.3 h | | Fail | Controller Not Sending Alarms sinc... | | 10 | | System | Accepted | | |
| | Active | 4/24/2020 10:46 PM | 21.3 h | | Fail | Unknown Code: 20,001 (Controller... | | 10 | | System | Accepted | | |
| | Active | 4/25/2020 4:46 AM | 21.3 h | | Fail | Controller Not Sending Alarms sinc... | | 10 | | System | Accepted | | |
| | Active | 4/25/2020 4:46 AM | 21.3 h | | Fail | Controller Not Sending Alarms sinc... | | 10 | | System | Accepted | | |
| | Active | 4/25/2020 8:16 AM | 21.3 h | | Fail | Controller Not Sending Alarms sinc... | | 10 | | System | Accepted | | |
| | Active | 4/24/2020 10:46 PM | 21.3 h | | Fail | Controller Not Sending Alarms sinc... | | 10 | | System | Accepted | | |
| | Active | 4/25/2020 4:46 AM | 21.3 h | | Fail | Controller Not Sending Alarms sinc... | | 10 | | System | Accepted | | |
| | Active | 4/24/2020 9:46 PM | 22.3 h | | Fail | Unknown Code: 20,001 (Controller... | | 10 | | System | Accepted | | |

Columns

Unit ID

State

Occurrence Date

Age

Site

Type

Advisory Message

Source

Priority

Application Instance

Source Type

Status

Directory

Control System

Unit

Application Type

Point

Limit

Trip Value

RTN Date

Urgency

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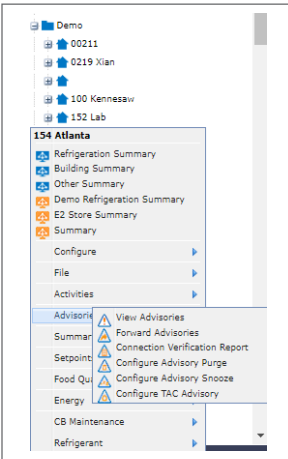
Displaying advisories 1 - 12 of 12

Advisory Manage

5.2.6 Access Advisory List View from Navigation Tree

You can also access Advisory View from all levels in the Navigation Tree by clicking Right-click Menu > **Advisories** > **View Advisories**.

This allows you additional flexibility to access advisories at a certain site, controller, device or a known point.



5.3 View and Process Live Advisories

5.3.1 View Live Advisory

If your organization does not enable Advisory Receiving in Connect+, then Live Advisories will be where your advisories can be reviewed. Connect+ will access the control system or controller to get Live Advisories on the controller when you click Right-Click Menu > **Advisories** > **View Live Advisories from Navigation Tree at Control System or Controller Level**.

Live Advisories View (Advisories are 16 seconds old.)

High 69Medium 12Low 531All

Occurrence Date [All] Show 25

Reset FiltersRefresh AdvisoriesRestore Default Format

| Occurrence Date | Type | Unit | Source | Prio... | Status | Advisory Message | Advisory Limit | Property Value |
|---------------------|-------------|---------------------|---|---------|----------------|--------------------------------|----------------|----------------|
| 04/25/2020 16:06:02 | Alarm (rtn) | RX-400 3: PROTO A/B | PROTO A/B:B238 FISH CLR :PRODUCT TEMP 1 | 20 | Unacknowledged | Product Temp Hi Limit Exceeded | 41.0 | 66.2 |
| 04/25/2020 10:06:12 | Alarm (rtn) | RX-400 3: PROTO A/B | PROTO A/B:B238 FISH CLR :PRODUCT TEMP 1 | 20 | Unacknowledged | Product Temp Hi Limit Exceeded | 41.0 | 66.2 |
| 04/25/2020 04:06:03 | Alarm (rtn) | RX-400 3: PROTO A/B | PROTO A/B:B238 FISH CLR :PRODUCT TEMP 1 | 20 | Unacknowledged | Product Temp Hi Limit Exceeded | 41.0 | 66.2 |
| 04/24/2020 22:06:12 | Alarm (rtn) | RX-400 3: PROTO A/B | PROTO A/B:B238 FISH CLR :PRODUCT TEMP 1 | 20 | Unacknowledged | Product Temp Hi Limit Exceeded | 41.0 | 66.2 |
| 04/24/2020 16:06:02 | Alarm (rtn) | RX-400 3: PROTO A/B | PROTO A/B:B238 FISH CLR :PRODUCT TEMP 1 | 20 | Unacknowledged | Product Temp Hi Limit Exceeded | 41.0 | 66.2 |
| 04/24/2020 10:06:02 | Alarm (rtn) | RX-400 3: PROTO A/B | PROTO A/B:B238 FISH CLR :PRODUCT TEMP 1 | 20 | Unacknowledged | Product Temp Hi Limit Exceeded | 41.0 | 66.2 |
| 04/24/2020 04:06:17 | Alarm (rtn) | RX-400 3: PROTO A/B | PROTO A/B:B238 FISH CLR :PRODUCT TEMP 1 | 20 | Unacknowledged | Product Temp Hi Limit Exceeded | 41.0 | 66.2 |
| 04/23/2020 22:05:51 | Alarm (rtn) | RX-400 3: PROTO A/B | PROTO A/B:B238 FISH CLR :PRODUCT TEMP 1 | 20 | Unacknowledged | Product Temp Hi Limit Exceeded | 41.0 | 66.2 |
| 04/23/2020 16:06:01 | Alarm (rtn) | RX-400 3: PROTO A/B | PROTO A/B:B238 FISH CLR :PRODUCT TEMP 1 | 20 | Unacknowledged | Product Temp Hi Limit Exceeded | 41.0 | 66.2 |
| 04/23/2020 10:06:18 | Alarm (rtn) | RX-400 3: PROTO A/B | PROTO A/B:B238 FISH CLR :PRODUCT TEMP 1 | 20 | Unacknowledged | Product Temp Hi Limit Exceeded | 41.0 | 66.2 |
| 04/23/2020 04:06:02 | Alarm (rtn) | RX-400 3: PROTO A/B | PROTO A/B:B238 FISH CLR :PRODUCT TEMP 1 | 20 | Unacknowledged | Product Temp Hi Limit Exceeded | 41.0 | 66.2 |
| 04/22/2020 22:06:18 | Alarm (rtn) | RX-400 3: PROTO A/B | PROTO A/B:B238 FISH CLR :PRODUCT TEMP 1 | 20 | Unacknowledged | Product Temp Hi Limit Exceeded | 41.0 | 66.2 |
| 04/22/2020 16:06:07 | Alarm (rtn) | RX-400 3: PROTO A/B | PROTO A/B:B238 FISH CLR :PRODUCT TEMP 1 | 20 | Unacknowledged | Product Temp Hi Limit Exceeded | 41.0 | 66.2 |
| 04/22/2020 11:33:19 | Alarm | RX-400 3: PROTO ... | PROTO A/B:ATC MONITOR A :COMMAND OUT | 15 | Unacknowledged | Digital Sensor Alarm | OFF | OFF |
| 04/22/2020 11:33:19 | Alarm | RX-400 3: PROTO ... | PROTO A/B:ATC MONITOR B :COMMAND OUT | 15 | Unacknowledged | Digital Sensor Alarm | OFF | OFF |
| 04/22/2020 11:27:24 | Alarm (rtn) | RX-400 3: RAK LT/TC | RAK LT/TC:LT2 R3 FROZ FD:CASE TEMP 1 | 16 | Unacknowledged | Case Temp Hi Limit Exceeded | 10.0 | 13.2 |
| 04/22/2020 11:26:20 | Alarm (rtn) | RX-400 3: PROTO A/B | PROTO A/B:B21A SVC PLTRY:CONTROL TEMP | 16 | Unacknowledged | Comb Temp Hi Limit Exceeded | 41.0 | 40.0 |
| 04/22/2020 11:25:19 | Alarm (rtn) | RX-400 3: PROTO A/B | PROTO A/B:Wallin Cooler:CASE TEMP 1 | 16 | Unacknowledged | Case Temp Hi Limit Exceeded | 41.0 | 39.4 |

Displaying advisories 1 - 25 of 612

Live Advisories View

Table 6: Live Advisories

| Field Name | Description |
|--------------|---|
| Cleared Date | Shows the date time when advisory is cleared on controller. |
| Status | Shows whether the advisory has been Acknowledged, Unacknowledged, or Muted. |

When you select one advisory, you will see the option to view Expanded Info, or connect to Terminal Mode if you have the permission.

| | | | | | | | | | | | | | | | |
|-------------------------------------|---------------------|----------------------|----------------------|----------------------------|-------|----------------|----------------------|--|--|----------------------|--|----------------------|--|--|--|
| | | | | | | | | | | | | | | | |
| <input type="checkbox"/> | Occurrence Date ▾ | Type ▾ | Unit | Source | Pr... | Status | Advisory Message | | | Advisory Li... | | Property ... | | | |
| | | <input type="text"/> | <input type="text"/> | <input type="text"/> | | All ▾ | <input type="text"/> | | | <input type="text"/> | | <input type="text"/> | | | |
| <input checked="" type="checkbox"/> | 04/30/2020 02:17:23 | Al... | RX-400 2: ... | RAK LT/TC:MTPREP RUN PR... | 20 | Unacknowledged | Digital Sensor Alarm | | | OFF | | OFF | | | |

Expanded Info or Terminal Mode

Click on **Expanded Info**, you will see the Advisory Details:

Live Advisories View (Advisories are 8 minutes 7 seconds old.)

High 22

Medium 3

Occurrence Date ▾

Reset Filters

Refresh Advisories

Restore I

| Occurrence Date ▾ | Ty... | Unit | Sc |
|---|-------|----------------|------|
| <input type="checkbox"/> 04/30/2020 02:17:23 | A... | RX-400 2: ... | R... |
| <input type="checkbox"/> 04/29/2020 15:45:01 | N... | RX-400 2: ... | R... |
| <input type="checkbox"/> 04/29/2020 15:45:00 | N... | RX-400 2: R... | R... |
| <input type="checkbox"/> 04/29/2020 15:45:00 | N... | RX-400 2: R... | R... |
| <input type="checkbox"/> 04/29/2020 15:45:00 | N... | RX-400 2: R... | R... |
| <input type="checkbox"/> 04/29/2020 14:27:23 | A... | RX-400 2: ... | R... |
| <input checked="" type="checkbox"/> 04/29/2020 14:19:23 | Al... | RX-400 2: R... | R... |
| <input type="checkbox"/> 04/29/2020 14:19:23 | Al... | RX-400 2: R... | R... |
| <input type="checkbox"/> 04/29/2020 14:19:23 | Al... | RX-400 2: R... | R... |
| <input type="checkbox"/> 04/29/2020 14:19:23 | Al... | RX-400 2: R... | R... |
| <input type="checkbox"/> 04/29/2020 14:19:23 | Al... | RX-400 2: R... | R... |
| <input type="checkbox"/> 04/29/2020 14:16:12 | N... | RX-400 2: ... | R... |
| <input type="checkbox"/> 04/29/2020 14:14:41 | N... | RX-400 2: ... | R... |
| <input type="checkbox"/> 04/27/2020 10:13:54 | Fa... | RX-400 2: R... | R... |
| <input type="checkbox"/> 04/27/2020 10:13:49 | Fa... | RX-400 2: R... | R... |
| <input type="checkbox"/> 04/27/2020 10:13:38 | Fa... | RX-400 2: R... | R... |
| <input type="checkbox"/> 04/22/2020 11:27:24 | Al... | RX-400 2: R... | R... |

Expanded Info

| Name | Value |
|----------------------|--------------------------------------|
| Occurrence Date | 04/29/2020 14:19:23 |
| Source | RAK LT/TC:LT4 RI FROZ FD:CASE TEMP 1 |
| Advisory Message | Case Temp Hi Limit Exceeded |
| Type | Alarm |
| Priority | 16 |
| Status | Unacknowledged |
| Property Value | 43.3 °F |
| Advisory Limit | 41.0 °F |
| Returned to Norm... | Yes |
| Return to Normal ... | 04/29/2020 14:20:13 |
| Unit | RX-400 2: RAK LT/TC |

Close

| Occurrence Date | Type | Unit | Source | Pr... | Status | Advisory Message | Advisory Li... | Property ... |
|---------------------|-------|----------------|---------------------------------|-------|----------------|-----------------------------|----------------|--------------|
| 04/29/2020 14:19:23 | Al... | RX-400 2: R... | RAK LT/TC:LT3 RI FROZ FD:CAS... | 16 | Unacknowledged | Case Temp Hi Limit Exceeded | 15.0 | 44.7 |
| 04/29/2020 14:16:12 | N... | RX-400 2: ... | RAK LT/TC:System : | 50 | Unacknowledged | Controller startup | 0 | 0 |
| 04/29/2020 14:14:41 | N... | RX-400 2: ... | RAK LT/TC:System : | 50 | Unacknowledged | Controller shutdown | 0 | 0 |
| 04/27/2020 10:13:54 | Fa... | RX-400 2: R... | RAK LT/TC:PROTO A/B : | 15 | Unacknowledged | Device absent from network | 0 | 0 |
| 04/27/2020 10:13:49 | Fa... | RX-400 2: R... | RAK LT/TC:E2 Unit04 : | 15 | Unacknowledged | Device absent from network | 0 | 0 |
| 04/27/2020 10:13:38 | Fa... | RX-400 2: R... | RAK LT/TC:HVAC/LTS : | 15 | Unacknowledged | Device absent from network | 0 | 0 |
| 04/22/2020 11:27:24 | Al... | RX-400 2: R... | RAK LT/TC:LT2 RI FROZ FD:CAS... | 16 | Unacknowledged | Case Temp Hi Limit Exceeded | 10.0 | 13.2 |

Expanded Info

As an Advisory View, you can sort, filter and add more columns for your review. You can also export to Excel, PDF or HTML file types.

5.3.2 Process Live Advisories

When you select one or multiple live advisories, you will see three options to process live advisories as shown below: Acknowledge, Reset and Clear for E2 advisories:

| | | | | | | | | |
|--|-------------------------|--------------------------|---------------------------------------|---------------|---------------------------|---------------------------------|----------------|----------------|
| | | | | | | | | |
| <div>Occurrence Date ▾</div> | Type | Unit | Source | Pr... | Status | Advisory Message | Advisory Li... | Property ... |
| <div><div><div></div></div></div> | <div><div>▾</div></div> | <div></div> | <div></div> | | <div>All ▾</div> | <div></div> | <div></div> | <div></div> |
| <div><div><div><div><input checked="" type="checkbox"/></div></div></div>04/30/2020 02:17:23</div> | <div>Al...</div> | <div>RX-400 2: ...</div> | <div>RAK LT/TC:MTPREP RUN PR...</div> | <div>20</div> | <div>Unacknowledged</div> | <div>Digital Sensor Alarm</div> | <div>OFF</div> | <div>OFF</div> |

Three Options

Acknowledge, Reset and Mute for Site Supervisor Advisories:

| Reset Filters Refresh Advisories Restore Default Format Acknowledge Reset Mute Expanded Info Terminal Mode | | | | | | | | | | | | |
|--|---------------------|--------|-------------|-------------------------------|-------|----------------|-------------------------------|----------------|--------------|------|------|------|
| <input type="checkbox"/> | Occurrence Date ▼ | Ty... | Unit | Source | Pr... | Status | Advisory Message | Advisory Li... | Property ... | P... | C... | R... |
| <input type="checkbox"/> | 04/21/2020 13:07:43 | Cri... | SF:Kennesaw | 8RO-1 | 20 | Unacknowledged | Network Device Offline | Offline | Offline | | | 0 |
| <input type="checkbox"/> | 04/21/2020 13:07:38 | Cri... | SF:Kennesaw | 16AI-1 | 20 | Unacknowledged | Network Device Offline | Offline | Offline | | | 0 |
| <input type="checkbox"/> | 04/21/2020 12:25:07 | Cri... | SF:Kennesaw | 16AI-1 | 20 | Unacknowledged | Network Device Offline | Offline | Offline | | | 0 |
| <input type="checkbox"/> | 04/07/2020 08:29:00 | Cri... | SF:Kennesaw | XR75CX001 Cooler | 20 | Unacknowledged | Network Device Offline | Offline | Offline | | | 0 |
| <input checked="" type="checkbox"/> | 04/06/2020 11:12:05 | Cr... | SF:Kennesaw | Circuit 01 Cooler:CASE TEMP 1 | 20 | Unacknowledged | Case Temp Hi Limit Exceede... | 40.0 | 74.0 | C... | | 0 |

Acknowledge, Reset and Mute

Acknowledge Advisories

When you acknowledge an Advisory, you prevent it from ever annunciating again in any way until you **manually** reset or clear the Advisory. A condition that causes an Advisory will never automatically return to normal when it is acknowledged. When an Advisory is **acknowledged**, the advisory stays in the controller Advisory Log, but all annunciation of the advisory is suspended until the alarm is reset or cleared.

Reset Advisories

When you rest an Advisory, you force the Advisory to a normal condition and the Advisory remains in the Controller Advisory Log. Currently Reset-To-Normal Alarms will not be marked as Return-To-Normal in Connect+.

Clear/Mute Advisories

The option to clear an advisory completely removes an advisory from the Controller Advisory Log.

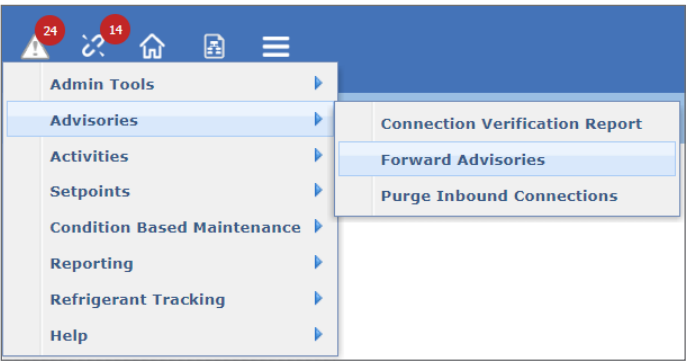
TIPS: ACKNOWLEDGEMENT VS. RESETTING

- **Reset** an alarm if you believe the condition that caused it is fixed, but you wish for a new alarm to occur if the problem happens again.
- You **MUST Reset** an alarm that has been previously acknowledged to re-enable the alarm. Failure to do so will cause the alarm to remain in ACK, and the alarm will not be generated again. AN ACKNOWLEDGED ALARM WILL NOT AUTOMATICALLY RESET.
- **Acknowledge** an alarm to silence alarm panel horns or lights, **ONLY IF** technicians have been notified of the problem and have been dispatched. Technicians, after fixing the problem, **MUST Reset or Clear** the alarm to re-enable alarming.

6. Advisory Notification

Advisories can be forwarded to an e-mail address. Open the **Forward Advisories** page by clicking **Advisories** > **Forward Advisories** from any tree level right-click menu, or from **Top Menu** > **Activities** > **Forward Advisories**.

| Forward Advisories | |
|--------------------|----------------------------|
| Add New | |
| Name | Description |
| N 225 | |
| N 231 | |
| N 452 | |
| N 515 | |
| N 572 | |
| N Alarm Forwarding | N Alarm Forwarding testing |
| test site sup | |



Click the **Add New** button to set up forwarding to a new address, or to edit an existing address, click on the **Address** in the box (if one is present, it will be visible) and it will take you to the page below:

Site Directories / Advisories / Forward Advisories

Forward Advisories

Name:

N Alarm Forwarding

Description:

Forward to:

Email

UARD

Forward Criteria:

By Advisory Severity

By Advisory Type

Advisory Match Criteria:

Advisory Severity:

Food Safety

High

Medium

Low

Source Type by protocol:

e2

xiweb

Site Supv

TAC Xenta 401

Source Type by service:

CB Maintenance

Demand Response

ProAct Energy

Refrigerant Tracking

System

Advisory State

Return to Normal

Repeat Advisories

Advisory Description:

Use * (asterisk) for wildcard at the start or end of a match string

Advisory Source:

Use * (asterisk) for wildcard at the start or end of a match string

Email Format:

Language:

English

Time Perspective:

Site Time

Email Format:

html

Group Advisories by:

One Advisory per Email

Email Recipients:

Email Groups:

Group Name 1

Manage Email Group List

Users:

engadminxian (admin xian)

username@copeland.com

administrator (System Administrator)

username@copeland.com

Advanced.Services (Advanced Services)

username@copeland.com

advdemo (Advance Demo)

username@copeland.com

advdemo1 (Adv Demo1)

username@copeland.com

AHR (AHR Show)

Additional Emails Addresses:

(Semicolon separated)

Cancel

Save

Directories and Sites:

Site Directories

A

A

A

Asia Demo

D

Demo

00211

0219

100

152

154

155

162

249

250

253

34

AT

B

C

D

D

E

H

H

Indoor Modular Solution

M

D

E

E

H

H

K

L

L

LT

LW

L

M

M

M

Forward Advisory Page

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Give the advisory forward a unique identifier in the **Name** field. Because multiple forwarding instances or profiles can be set up, you can distinguish them and indicate a purpose/description for each one.

Description is an optional field for indicating what the advisory forward is for (its purpose). For example, "Notify all west coast supervisors of compressor failures."

Advisory Match Criteria

You can choose what kind of **Advisory Criteria** you want to use to send email.

- **By Advisory Type** – Advisory Type will be shown in Advisory Match Criteria after choosing.

Name:

Description:

Forward Criteria:

☐ By Advisory Severity

☒ By Advisory Type

Advisory Match Criteria:

Advisory Types:

☒ Fail

☒ Alarm

☒ Notice

☒ Critical

☒ Non-Critical

☒ Severe

☒ Normal

Source Type by protocol:

☒ E2

☒ Xweb

☒ Site Supv

☒ TAC Xenta 401

☒ E3

☒ Danfoss

Advisory Type

Advisory Type is the advisory severity identified on the controller. Advisory grade from high severity to low is **Fail** (E2 and XWEB) or **Critical** (Site Supervisor and E3) or Severe (Danfoss), **Alarm** (E2 and XWEB) or **Non-critical** (Site Supervisor and E3), **Notice** (E2, XWEB and Site Supervisor and E3).

- **By Advisory Severity** – Once it is be chosen, **Advisory Severity** will be shown in Advisory Match Criteria. You can choose **Food Safety**, **High**, **Medium**, **Low** for advisories filter.

Name:

Description:

Forward Criteria:

☒ By Advisory Severity

☐ By Advisory Type

Advisory Match Criteria:

Advisory Severity:

☐ Food Safety

☒ High

☐ Medium

☐ Low

Source Type by protocol:

☒ E2

☒ Xweb

☒ Site Supv

☒ TAC Xenta 401

☒ E3

☒ Danfoss

Advisory Severity

Advisory Severity:

Advisory Severity is a Connect+ defined Advisory Property. When you have multiple controllers across the organization, it is difficult to tell which Advisory needs your immediate attention with different Advisory definitions for different controllers.

In order to solve this problem, Connect+ defines the Advisory Severity as shown below. This allows users to have a consistent view of an advisory’s Severity. Currently the definition is defaulted as the following in Connect+:

| Advisory Priority for E2, E3, Site Supervisor and XWEB | | | |
|--|----------|--------|------------------------------|
| Severity | Priority | State | Example Alarm Type |
| High | 1 to 20 | Active | Room Temp Alarm |
| Food Safety | | | Case Temp and Prod Temp |
| Medium | 21 to 50 | | Heat Pump Status Block Alarm |
| Low | 51 to 99 | RTN | HRC Alarm from Heat Pump |
| Low | 1 to 99 | | |

| Advisory Priority for Danfoss | | |
|-------------------------------|--------------------|--------|
| Severity | Type | State |
| High | Severe or Critical | Active |
| Medium | Normal | |
| Low | Log Only | |
| Low | Any | RTN |

Advisory State indicates two kinds of advisories, Return to Normal and Repeat Advisories. Advisories that have been returned to normal or duplicate advisories (one advisory generates more than once) should keep being sent, you can click the check boxes to send them.

Source Type by Protocol allows different protocol advisories to be sent

CB Maintenance, Demand Response, Proact Energy, Refrigerant Tracking are different functionally from Connect+. System is controller off-line alarm.

Source Type by Service allows advisories for Connect+ supported service to be sent.

Advisories can be sent based on the Advisory Match Criteria configuration. If you want to receive high severity alarm for E2 and Site Supervisor and E3. Then you can check High from Advisory Severity and E2 and Site Supervisor and E3 from Source Type by protocol.

If you want to send all active and return to normal advisories, simply click the **Return To Normal** check box, and leave the **Advisory Severity** check boxes as unchecked.

Advisory Match Criteria:

Advisory Severity:

☐ Food Safety ☐ High ☐ Medium ☐ Low

Source Type by protocol:

☒ E2 ☒ Xweb ☒ Site Supv ☒ TAC Xenta 401 ☒ E3 ☒ Danfoss

Source Type by service:

☐ CB Maintenance ☐ Demand Response ☐ ProAct Energy ☐ Refrigerant Tracking System

Advisory State

☒ Return to Normal ☒ Repeat Advisories

Advisory Description:

Use * (asterisk) for wildcard at the start or end of a match string

Advisory Source:

Use * (asterisk) for wildcard at the start or end of a match string

Advisory Match Criteria

Email Format:

Language can let you choose English or Spanish

Time Perspective of the advisory can be set to Site Time, My Time (your current browser time zone), or the Server Time.

E-mail Format can be set up as Html, Text, or Cell Phone (messages sent to cell phones for each individual alarm will be abbreviated to conserve space).

Group Advisories by field can let you choose how many advisories will be sent in one email. You can choose One Advisory per Email or Multiple Advisories per Email.

Connect+ support two kinds of alarm email formats. If you want to change the email format, ask the Administrator to change it in superuser property.

☐ Case Sensitive

Reset Filter

| Category | Key | Value |
|------------|-------------------------------|-------|
| JaruSystem | alarmEmailReportClassicFormat | false |

Email Format

The default format like below:

Active

Medium

Occurrence Date: 3/30/2020 3:16 PM

Alarm Details

Directory:

Demo

Site:

E2 128'

Unit:

[RX-400 1: 2796_RTCB](#)

Application Instance:

B +22 (R404A)

Point:

STAGE OUTS

Advisory Message:

[Proof failure Occurred](#)

Source Type:

Device

Limit:

Trip Value:

Alarm Details

Administrator can change **alarmEmailReportClassicFormat** to True for table email format below:

Advisory Forwarding

This is an automatically generated email. Please do not respond. The following advisories have occurred:

Time Perspective: Site Time

| Occurrence Date | Type | Directory | Site | Control System | Unit | Application Type | Application Instance | Point | Priority | Advisory Message | Source Type | Limit | Trip Value | Received Date |
|-------------------|--------------------|--------------|---------|------------------|----------------------|-------------------|----------------------|---------------|----------|--------------------------------|-------------|--------|------------|-------------------|
| 5/24/2019 4:12 AM | Non-Critical (rtn) | sophie / sub | SS Site | 10. 161. 92. 212 | SR:SS Unit03 | StdCircuit | SOSO | | 99 | Case Temp Hi Limit Exceeded 1 | Device | 100.00 | 107.60 | 5/27/2019 8:56 AM |
| 5/24/2019 2:35 PM | Notice | sophie / sub | SS Site | 10. 161. 92. 212 | BX-400 13: E2 Unit13 | Sensor Control AV | DDD | | 99 | Application config has changed | Device | | | 5/27/2019 8:56 AM |
| 5/24/2019 2:07 PM | Non-Critical | sophie / sub | SS Site | 10. 161. 92. 212 | BX-400 13: E2 Unit13 | Sensor Control AV | a | CONTROL VALUE | 20 | Alarm Limit Exceeded | Device | 90.00 | 92.00 | 5/27/2019 8:56 AM |

Advisory Forwarding

Email Recipients:

Email Groups can list the groups that you already configured in Email Group Manager. If you want to add a new group or edit the existing groups, click Manage Email Group List.

Users field lists all the users with their email address. NO EMAIL will be marked for users who did not configure an email address. If you choose a user without an email address, you will receive a message that does not affect the user.

Additional Emails Addresses field allows you to input additional email address.

Check the directories and sites hierarchy that are applicable to the advisories being sent. If accessing this page directly from the navigation tree, the hierarchy will automatically be visible and checked.

After all the configurations are done, click the Save button. The new added forward advisory rule will be listed in the Forward Advisories table.

| Forward Advisories | |
|--------------------|--------------------|
| + Add New | |
| Name ▲ | Description |
| N 225 | |
| N 231 | |
| N 452 | |
| N 515 | |
| N 572 | |
| N Alarm Forwarding | N Alarm Forwarding |
| test site sup | testing |

Forward Advisories

Any alarms that match the forwarding rule will be sent out to configured recipients.

7. View Sites Not Sending Alarms

You have seen many sites that are not sending alarms from the Advisory Map. Those sites are grayed out and flashing to bring attention to them. It will also show up as “Controller Not Sending Alarms since last received time.” in Advisory Message column of Advisory View page.

Advisories View

High 3

Food Safety 0

Medium 0

Low 47

All

Occurrence Date Custom Range Time Perspective: Site Time from 04/01/20 to 05/09/20 Go

Reset Filters Refresh Advisories Restore Default Format

| Ad... | Occurrence Date | Age | Site | State | Source | Prio... | Advisory Message | Source Type | Received Date | RTN Date | Limit |
|-------|-------------------|--------|----------|------------------|--------|---------|---|-------------|----------------------|-------------------|-------|
| | 5/6/2020 10:17 AM | 35.1 m | Saratoga | Return To Normal | E2 | 10 | Controller Not Sending Alarms since ... | System | 5/6/2020 10:52 AM | 5/6/2020 10:52 AM | |
| | 5/6/2020 5:26 AM | 5.1 h | Vermont | Return To Normal | E2 | 10 | Controller Not Sending Alarms since ... | System | 5/6/2020 10:33 AM | 5/6/2020 10:33 AM | |
| | 5/3/2020 12:13 PM | 5.6 d | Melville | Active | E2 | 10 | Controller Not Sending Alarms since ... | System | 5/8/2020 3:38 AM (5) | | |
| | 5/3/2020 10:17 AM | 7.4 h | Saratoga | Return To Normal | E2 | 10 | Controller Not Sending Alarms since ... | System | 5/3/2020 5:40 PM | 5/3/2020 5:40 PM | |
| | 5/3/2020 1:26 AM | 15.7 h | Vermont | Return To Normal | E2 | 10 | Controller Not Sending Alarms since ... | System | 5/3/2020 5:10 PM | 5/3/2020 5:10 PM | |

Controller Offline Alarm

7.1 Controller Offline Alarm

Controller offline alarm is a kind of alarm which can monitor site communication status. It is defined as alarms if site cannot receive test connections from controller.

This alarm is generated by Connect+ but not controller. Therefore, you will not see this kind of alarm on controller. It will return to normal when Connect+ receives advisories before next test connection time or the next test connection is successful.

Table 7: Controller Offline Alarm

| Column Name | Description |
|------------------|--|
| Occurrence Date | Shows the date time of last test connection time. |
| Received Date | Shows the date time when advisory is received. The alarm will be received when system job CheckConnectionTestJob run. It is configurable. (Generally, at 12:00AM every day). If alarm is not solved in 24 hours, Received Date will be updated to latest missed connection date time. |
| Alarm Age | Shows advisory activity duration. If advisory is still active, Alarm Age = Current Date time - Occurrence Date. If advisory is return to normal, Alarm Age = Return to Normal Date - Occurrence Date. |
| RTN Date | Shows the date time when advisory is back to normal. It is latest test connection successful date time or alarm received time. |
| Advisory Message | Controller Not Sending Alarms since last received time |
| Urgency | High |
| Type | Fail |
| Source Type | System |
| Priority | 10 |
| Comment | Controller was last commissioned at Controller Last Commission Time |

7.2 Site not Sending Alarms

If you want to know how many sites are not sending alarms and more information, you can click on **Sites not Sending Alarms** icon on the enterprise toolbar.



Site Not Sending Alarms Legend

You will see a list of sites that are not sending alarms in the Connection Verification Report. If you receive a controller offline alarm, you will also see the site is shown as a problem site in Connection Verification Report.

Connection Verification Report

Time Perspective: Site Time

View: Problem Sites

Show: 25

Reset Filters

Refresh Connections

| Directory | Site | Control System | Test Connections Per Day | Number Of Missed Connections | Last Received Time | Next Received Time | Commissioned Time |
|-----------|------|----------------|--------------------------|------------------------------|--------------------|--------------------|-------------------|
| Demo | | | 2 | 2 | 2/18/20 1:57 PM | 4/25/20 5:12 AM | 10/23/19 4:52 PM |
| L | | | | 1 | 6/12/19 2:52 PM | | 4/9/19 6:12 PM |
| L | | | | 1 | 6/12/19 2:52 PM | | 5/17/18 1:14 PM |
| Asia Demo | | | 1 | 1 | 5/8/19 3:29 PM | 4/25/20 11:02 AM | 4/8/19 10:55 AM |
| Demo | | | 24 | 24 | 1/31/19 10:11 PM | 4/24/20 8:07 PM | 11/7/18 3:02 PM |
| L | | | | 1 | 12/6/18 8:51 AM | | 5/2/18 4:35 PM |
| Demo | | | 1 | 1 | 7/2/18 7:37 AM | 4/24/20 9:07 PM | 6/15/18 9:40 AM |
| | | | | | | | 9/18/19 9:49 AM |
| Demo | | | | 1 | | | 11/29/18 3:46 AM |
| Demo | | | | 1 | | | 9/4/19 5:01 PM |
| Demo | | | | 1 | | | 3/3/20 7:03 AM |
| Asia Demo | | | | 1 | | | 4/2/19 1:24 PM |
| Scott | | | | | | | 1/29/20 10:53 AM |
| Demo | | | | 1 | | | 10/18/19 2:20 AM |
| Demo | | | | 1 | | | 10/4/19 4:56 PM |

Page 1 of 1

Displaying inbound connections 1 - 15 of 15

Connection Verification Report

Table 8: Connection Verification Report

| Field Name | Description |
|------------------------------|--|
| Test Connections per Day | Shows the number of connection tests that occurred in the controller in the last 24 hours. |
| Number of Missed Connections | Shows the number of connection test missed in the controller in the last 24 hours. |
| Last Received Time | Shows the date and time when latest connection test or alarm was received. |
| Next Received Time | Shows the date and time when the next test connection will happen. |
| Commissioned Date | Shows the date and time when you configured to send advisory configuration information such as connection test time and advisory filter priorities for alarms, failures, and notices for E2 and Site Supervisor. And shows the first refresh unit date time as commissioned Date for XWEB and Danfoss. |

You can click on the link of **Last Received Time** to view the recent 30 connection information.

You can see two kinds of alarm from Status column in Connection Verification History.

- If daily connection test alarm is received, you will see the message:

| | |
|-----------------|---|
| 2/17/20 5:14 PM | Advisory Receiver - Total alarms received = 0 Advisory Receiver - Daily Connection Test Received Advisory Receiver - Finished receiving alarms. |
|-----------------|---|

- If advisory is received, you will see the message:

| | |
|-----------------|---|
| 2/18/20 1:57 PM | Advisory Receiver - Total alarms received = 1 Advisory Receiver - Finished receiving alarms. |
|-----------------|---|

Connection Verification Report

Time Perspective: Site Time

Reset Filters

Refresh Connections

| Directory | Site | Control System |
|-----------|---------|----------------|
| Demo | 152 Lab | Site Supv |
| L | | |
| L | | |
| Asia Demo | | |
| Demo | | |
| L | | |
| Demo | | |
| Demo | | |
| Demo | | |
| Demo | | |
| Asia Demo | | |
| Scott | | |
| Demo | | |
| Demo | | |

Connection Verification History

Demo / 152 Lab / Site Supv

Most recent 30 connections will be shown.

| Received Connection Time | Status | Additional Info |
|--------------------------|---|-----------------|
| 2/18/20 1:57 PM | Advisory Receiver - Total alarms received = 1 Advisory Receiver - Finished receiving alarms. | |
| 2/18/20 10:58 AM | Advisory Receiver - Total alarms received = 1 Advisory Receiver - Finished receiving alarms. | |
| 2/18/20 5:14 AM | Advisory Receiver - Total alarms received = 0 Advisory Receiver - Daily Connection Test Received Advisory Receiver - Finished receiving alarms. | |
| 2/17/20 5:14 PM | Advisory Receiver - Total alarms received = 0 Advisory Receiver - Daily Connection Test Received Advisory Receiver - Finished receiving alarms. | |
| 2/17/20 5:14 AM | Advisory Receiver - Total alarms received = 0 Advisory Receiver - Daily Connection Test Received Advisory Receiver - Finished receiving alarms. | |
| 2/16/20 5:14 PM | Advisory Receiver - Total alarms received = 0 Advisory Receiver - Daily Connection Test Received Advisory Receiver - Finished receiving alarms. | |

Close

Show 25

| Commissioned Time |
|-------------------|
| 10/23/19 4:52 PM |
| 4/9/19 6:12 PM |
| 5/17/18 1:14 PM |
| 4/8/19 10:55 AM |
| 11/7/18 3:02 PM |
| 5/2/18 4:35 PM |
| 6/15/18 9:40 AM |
| 9/18/19 9:49 AM |
| 11/29/18 3:46 AM |
| 9/4/19 5:01 PM |
| 3/3/20 7:03 AM |
| 4/2/19 1:24 PM |
| 1/29/20 10:53 AM |
| 10/18/19 2:20 AM |
| 10/4/19 4:56 PM |

Connection Verification History

As in the Advisory View, you can sort, filter and add more columns for your review. You can also export to Excel, PDF or HTML file types.

8. Monitor Site from Graphical Screens

8.1 Graphical Screen

As introduced in the What is Connect+ session, Graphical Screens are Floor Plans or Summary Screens for real time store monitoring. The customized floor plan that can be drawn according to user requirements. It can show all points on a single page with real-time value for multiple entities within the store for your quick view.

Show GS Screen Edit Tool from user profile. The default Show GS Screen Edit Tool is disabled. You should click the check box to enable it.

User Configuration

Login ID

First Name

Last Name

New Password (case sensitive)

E-mail

Group Name

-- select one --

User Expiration Type

Never Expired

Preferences

☒ Show GS Screen Edit Tool

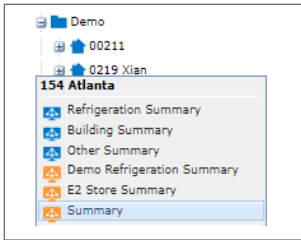
☐ Enable Home Page

☐ Hide Nav Frame

☒ Enable GS Screen Auto Log Off

[Connection Verification History](#)

You can access these Graphical Screens from the Navigation Tree, when you right-click on any level, you will see a list of system screens indicated with a blue icon, and customized screens with an orange icon.



System Screens are provided by Connect+ with predefined summaries at site, controller, application type and application level.

Customized Screens can be developed by your Administrator or Copeland to facilitate your customized needs to monitor or compare store performance.

8.2 System Summary Screen

Table 9: System Summary Screen

| Tree Level | Name | Description |
|------------|-----------------------|---|
| Site | Refrigeration Summary | Include critical points from Suction Group, Condenser, and Case Controllers |
| | Building Summary | Include critical points from Outside/Inside Temp and Humidity, AHU Temp and Status, Lighting Status and Schedules |
| | Other Summary | Include critical points from Anti-Sweat, Demand Control, Power Channel, Analog Sensor, and Digital Sensor |
| Unit | Controller Summary | Sites that usually have multiple controllers: <ul style="list-style-type: none">• Building Controller Summary is a subset of Site Building Summary for that specific controller.• Ref Controller Summary is a subset of Site REF Summary for that specific controller. |
| App Type | Summary | Include critical points for the below Application Types: Circuits and other Case Controllers, Condenser, Suction Group, Physical AI/DI/DO, Sensor Control AV/DV, HVAC Zone, Lighting Control, Power Monitoring, Anti-Sweat, Analog Combiner, Digital Combiner, Flexible Combiner, and more. |
| | Defrost Summary | Only applies to Case Controller Application Types |

Table 9: System Summary Screen

| Tree Level | Name | Description |
|------------|-------------------|---|
| App Ins | Status | Include critical input, setpoint and output points properties for application instance. Only Application Instance from an Application Type that has Summary Screen will have Status Screen. (See App Type > Summary) |
| | Graphical Summary | Can be found in Application Instances from AHU, Condenser, Circuits, Suction Group, Sensor AV/DV for graphical presentation of the physical device. |

How to Read Summary Screens

Each Summary comprise several tables. Table header is defined as:

| Unit | "Application Type Name" | "Point Name" | "Point Name" | "Point Name" |
|-------------------|-------------------------|--------------|--------------|--------------|
| "Controller Name" | "App. Instance Name" | Point Value | Point Value | Point Value |

As you can see from the example below, each table header has **Unit** as fixed header, with different Application Types such as Enhanced Suction Group, Condenser, Circuit (CC) and Circuit (Standard). For each Application Type, point is also different.

| Unit | Enhanced Suct Grp | Suction | Suct SP | Suct Temp | Disch | Active Stages | Total Stages | % Cap | Status |
|---------------------|-------------------|----------|----------|-----------|-----------|---------------|--------------|---------|--------|
| RX-400 2: RAK LT/TC | RACK LT | 17.0 PSI | 15.0 PSI | NONE °F | NONE PSI | 4 | 4 | 100.0 % | OK |
| RX-400 2: RAK LT/TC | RACK TC | 20.0 PSI | 15.0 PSI | NONE °F | NONE PSI | 2 | 2 | 100.0 % | OK |
| RX-400 3: PROTO A/B | PROTOCOL A | 54.0 PSI | 50.0 PSI | NONE °F | 150.0 PSI | 6 | 6 | 100.0 % | OK |
| RX-400 3: PROTO A/B | PROTOCOL B | 52.3 PSI | 54.0 PSI | NONE °F | NONE PSI | 5 | 6 | 83.3 % | OK |

Controller Name/App. Ins. Name

Point Value

Alarming!

| Unit | Condenser | P Ctrl | P Setpt | T Setpt | T Ctrl | VS RPM | VS % | State |
|---------------------|--------------|-----------|-----------|---------|---------|--------|------|------------|
| RX-300 4: E2 Unit04 | CONDENSER | NONE PSI | 200.0 PSI | ?? | ?? | ?? | ?? | Fan(s) On |
| RX-400 2: RAK LT/TC | CONDENSER LT | 212.1 PSI | 210.0 PSI | ?? | ?? | ?? | ?? | Fan(s) On |
| RX-400 2: RAK LT/TC | CONDENSER TC | 182.3 PSI | 180.0 PSI | ?? | ?? | ?? | ?? | Fan(s) On |
| RX-400 3: PROTO A/B | CONDENSER A | ?? | ?? | 97.0 °F | 69.5 °F | ?? | ?? | Fan(s) Off |
| RX-400 3: PROTO A/B | CONDENSER B | 150.0 PSI | 222.0 PSI | ?? | ?? | ?? | ?? | Fan(s) Off |

Summary Table Header

| Unit | Circuit (CC) | Alarm | State | Temp | Setpt |
|---------------------------------------|--------------|-------|-------|------|-------|
| No application instances of this type | | | | | |

Unit/Application Type Name

| Unit | Circuit (Standard) | Alarm | State | Temp Setpt |
|------------------------------------|--------------------|---------------|---------|------------|
| RX-400 2: RAK LT/TC LT1 GROC | .. | REFRIGERATION | -9.3 °F | -12.0 °F |
| RX-400 2: RAK LT/TC LT2 RI FROZ FD | .. | REFRIGERATION | 0.7 °F | 0.0 °F |
| RX-400 2: RAK LT/TC LT3 RI FROZ FD | .. | REFRIGERATION | -0.4 °F | 0.0 °F |
| RX-400 2: RAK LT/TC LT4 RI FROZ FD | .. | REFRIGERATION | 0.7 °F | 0.0 °F |
| RX-400 2: RAK LT/TC LT5 RI FROZ FD | .. | REFRIGERATION | -2.0 °F | 0.0 °F |
| RX-400 2: RAK LT/TC LT6 MD FROZ MT | .. | REFRIGERATION | -1.6 °F | 0.0 °F |
| RX-400 2: RAK LT/TC LT7 RI FROZ FD | .. | REFRIGERATION | 1.7 °F | 0.0 °F |
| RX-400 2: RAK LT/TC LT8A DT MEAT | .. | REFRIGERATION | 0.4 °F | -1.0 °F |
| RX-400 2: RAK LT/TC LT8B DT MEAT | .. | REFRIGERATION | -1.2 °F | 0.0 °F |
| RX-400 2: RAK LT/TC LT8C DT MEAT | .. | REFRIGERATION | 28.6 °F | 28.0 °F |
| RX-400 2: RAK LT/TC LT9 SEAFD FRZR | .. | REFRIGERATION | -7.5 °F | 0.0 °F |
| RX-400 2: RAK LT/TC MEAT PREP 30 | .. | REFRIGERATION | 46.6 °F | 50.0 °F |

Read Summary Screens

8.3 View Customized Screens

Your organization Admin, Service Provider, or Copeland Project Team might have developed customized screens to match your requirements. Connect+ Graphical Screen Tools provide different image libraries and widgets to allow vivid visual presentations of your store to be created.

You can view store floor plans as indicated below, or pull data from several stores to compare Food Safety Setpoints. Talk to your Admin, Service Provider, or Copeland Project Team about what is right for you. You can set customized screens as a Homepage or Site Homepage for quicker access.



Customized Screen

8.4 Quick Create GS Screen

After selecting the **Add GS Screen**, you will see the GS Screen toolbar. Click the **Add Widgets Palette** to create your own GS screen.



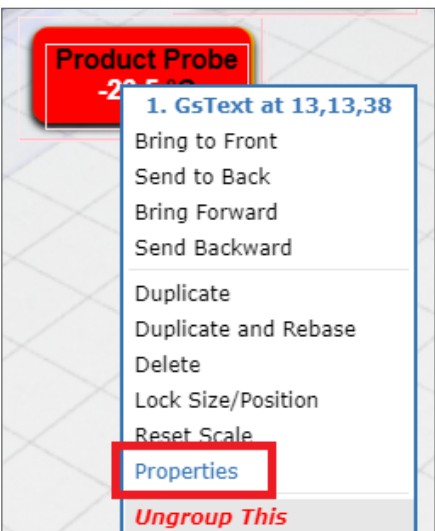
Widget Palette

Select the desired widget.



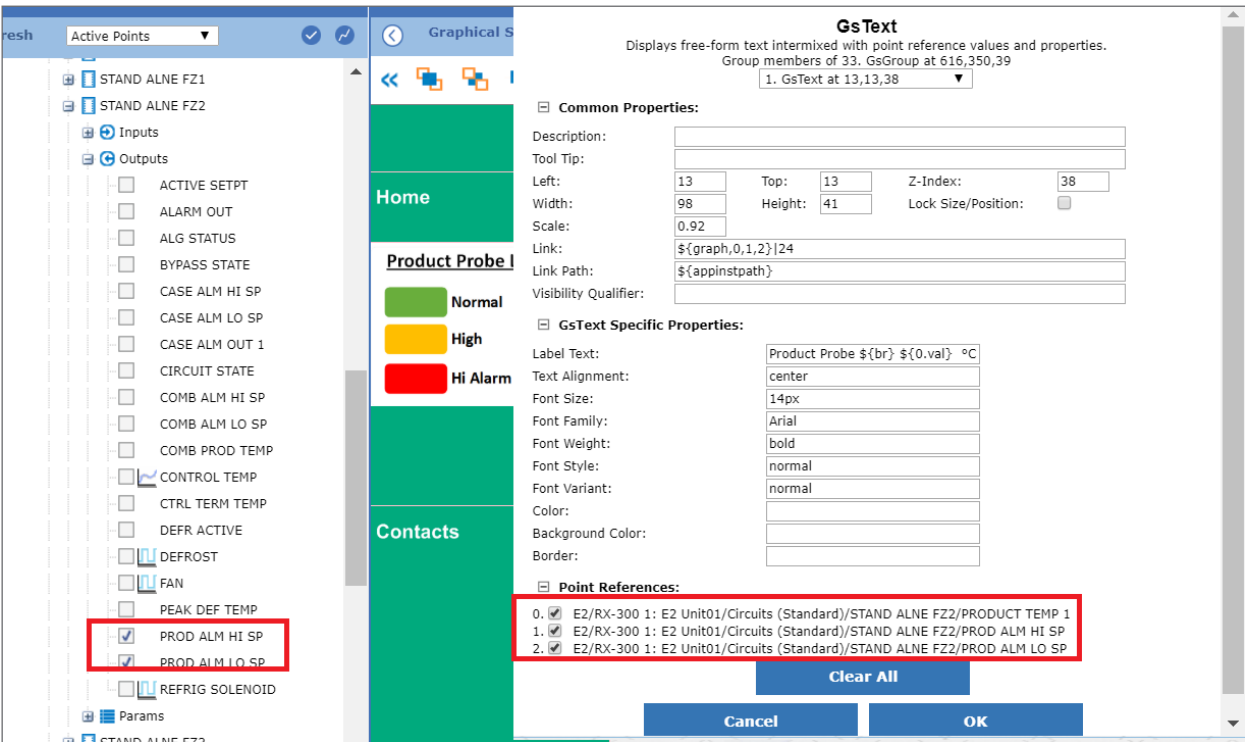
Selecting Desired Widgets

Right-click on the widget for editing capabilities and properties, you can select **Properties** to open the Editor.



Properties

Add any desired points by selecting the point check boxes in the navigation tree. After you select the points from navigation tree, the points will automatically show under **Point Reference** on the **Properties** page. That means the point is associate to the widget. The widget will show associated points and value.

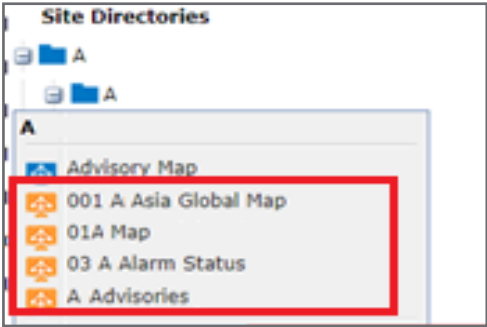


Point Reference

8.5 Save GS Screen

After the GS screen is completed, you can click the **Save** icon to save your own GS screen. A Save GS Screen window opens and will ask you to name your GS Screen.

Enter a name for the GS Screen and click **OK**. Your GS Screen will be saved. You can check the new GS screen from the tree node menu (right click on the tree node).



Save GS Screen

Once you have saved the GS Screen, the save icon will be gray and cannot be selected.



Screen Widget

After creating a GS Screen, toggle the **Edit** button to **Run** mode to see the GS Screen become active and show real-time values.

8.6 Run/Edit GS Screen

Edit Mode: If you are adding or creating a GS Screen, you are automatically in **Edit** mode when you first arrive at this page. The Run button indicates that you are in Edit mode. In this mode, you can edit the GS Screen.

Run Mode: After a GS Screen has been created and you arrive at a saved GS Screen, you are automatically in Run mode. **Run** mode shows the GS Screen operating in real-time. You can see the **Edit** button shows in the menu.

Toggle this button to go back and forth between modes.



Edit GS Screen



Run GS Screen

8.7 Delete GS Screen

If you want to delete a GS Screen, you can click the **Run/Edit** toolbar to edit the GS Screen. Click the **Delete** icon to remove the GS Screen.



Deleting GS Screen

8.8 Property of GS

In **GS Screen Edit** mode, this GS Screens properties menu is located on the **GS Screens** tool bar. Selecting the **Properties** icon will open the **GS Screen Properties** window and display all properties that belong to the GS Screen currently being viewed.



GS Screen for Properties

GS Screen Properties

Name:

Menu Display Name:

Description:

External URL:

Multi-Association Expr:

Background Color:

Border:

Auto Scale:

Published:

Author:

Date Created/Last Saved:

Site Directories Version:

GS Screen Schema:

☒

☐

System Administrator

2020/2/14 9:55:59

1.4.0B07

4

Cancel

OK

GS Screen Properties

Properties:

- The **Name** given to the GS Screen is displayed.
- **Menu Display Name** is how the GS Screen name will appear when displayed on the menu.
- **Description** is a brief description of the GS Screen.
- **External URL** is the GS Screen URL that can be used for referencing the GS Screen location externally.
 - » **Multi-Association Expr** is the Javascript expression that is evaluated by the tree in order to create a rule for associating a screen to multiple tree nodes or location.
 - » **Background Color**: Specify a color value to set the background color of the screen, defined like any other CSS color is defined (for example, blue, green, red, or #fab009 can be entered).
- **Border**: Specify this property to add a border around the GS Screen. For example, entering "5px solid blue" would create a 5-pixel solid blue border (CSS style).
- With **Auto Scaling** enabled, the GS Screen automatically scales up to fit the size of the window.
- When this **Published** check box is checked, the GS Screen will be made public
- **Author**: Read-only field that shows the author of the GS Screen (the originator of the screen or who imported it).
- **Date Created/Last Saved**: Read-only field that shows the date/time the GS Screen was created or last imported.
- **Site Directories Version**: Read-only field that shows the current Connect+ software version.
- **GS Screen Schema**: It indicates the version number of the GS Schema. This number changes whenever structural changes to the screen design changes.

8.9 Copy/Paste GS Screen

If you want to create one Graphical Screen and use the similar screen on another same-level tree node but with different point mapping, you can use Copy/Paste GS Screen function.

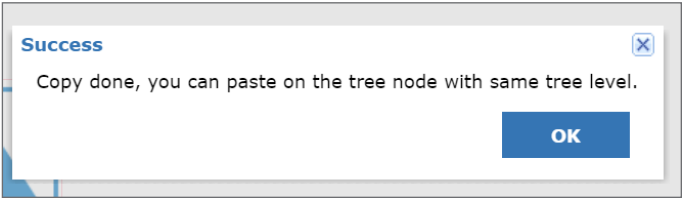
Copy/Paste can only be used on a customized Graphical Screen.

In GS Screen Edit mode, you can see the **Copy** menu is located on the **GS Screens** tool bar.



GS Screen Copy and Pasting

Click the **Copy** menu and a copy completed message appears, which you can paste on another same-level tree node



Copy Completed Message

You can right-click the tree node of the same level and select **Views > Paste GS Screen**. A mapping table will appear and allow you to choose the correct mapping instance.

| Paste GS Screen | |
|---------------------------------|---|
| Source Application Instance | Target Application Instance |
| 152/AlarmCommunications/MRLDS 1 | /site251/10.161.92.251/CX/LabSS 152/AlarmCommunications/MRLDS 1 |
| 152/XH678D_28/LTR_XN_1A1 | No corresponding instance found |
| 152/XH678D_28/LTR_XN_1B1 | No corresponding instance found |
| 152/XH678D_28/LTR_XN_1B2 | No corresponding instance found |
| 152/XH678D_28/LTR_XN_1B3 | No corresponding instance found |
| 152/XH678D_28/MTR_XN_2A1 | No corresponding instance found |
| 152/XH678D_28/MTR_XN_2A2 | No corresponding instance found |
| 152/StdCircuit/1A1_FF_FFRM | --- Please select --- |
| 152/StdCircuit/1B1-3_FF_GDF | --- Please select --- |
| 152/StdCircuit/2A1-4_DA_GDD | --- Please select --- |
| 152/StdCircuit/2B1-1_SU_STRG | --- Please select --- |
| 152/StdCircuit/2C1-3_FFN_GDM | --- Please select --- |
| 152/StdCircuit/2D1-1_PR_MDC | --- Please select --- |
| 152/StdCircuit/2E1-3_PR_MDC | --- Please select --- |
| Paste | |

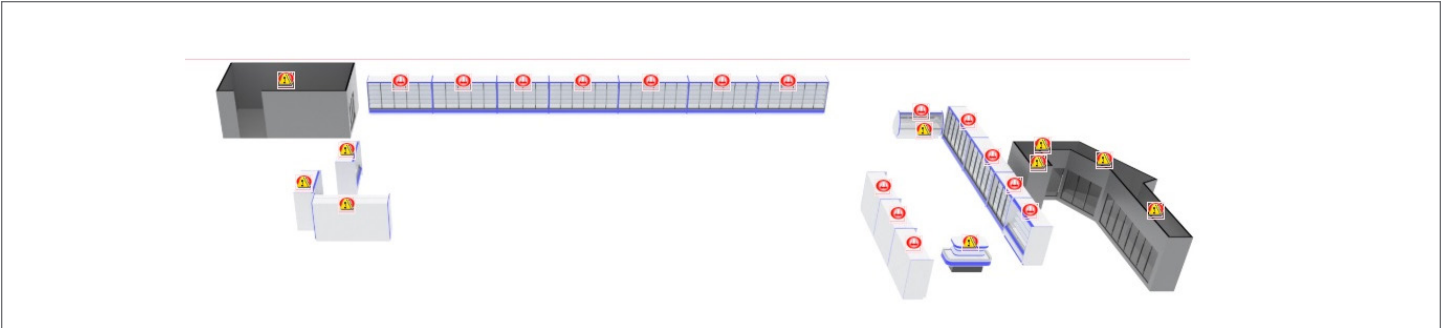
Mapping Table

Source Application Instance: The path of the application instance that is associated in the copied Graphical Screen.

Target Application Instance: The path of the application instance that will be associated to the copied Graphical Screen. The instance whose type is same as the Source Application Instance will be listed in the **Target Application Instance** drop-down. Choose the desired Instance for mapping.

If the target Application Instance name is same as the source Application Instance name, it will be pre-filled. You can change the Instance by selecting another one from the drop-down list. But if there is no corresponding Application Instance of the Target Application Instance, a **No corresponding Instance found** message will appear.

After the mapping configuration is done, click the **Paste** button. The copied GS Screen will be displayed.



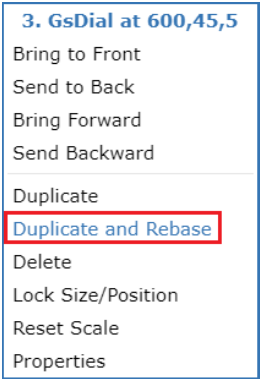
Graphical Screen

After pasting the GA Screen, widgets with exclamation marks may appear. This indicates the point associated to the widget cannot be found for the pasted tree node.

Right- click on the widget, and select **Properties** to remove the existing points and re-map them, or use **Duplicate and Rebase** to replace the point.

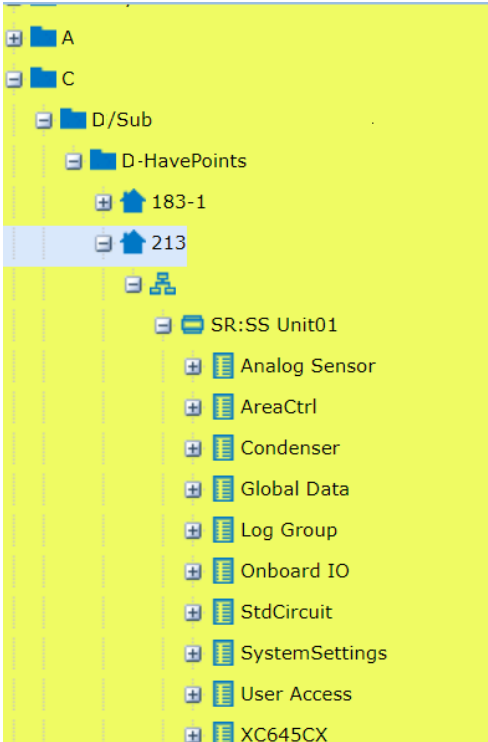
Duplicate and Rebase:

Right- click on the **widget**, and select **Duplicate and Rebase**.



Duplicate and Rebase

You will see a duplicate widget and at the same time the tree background will be highlighted yellow.



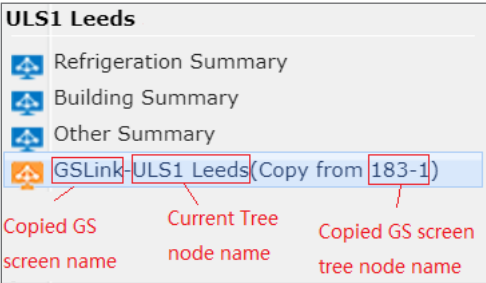
Tree Background

Clicking one desired application instance whose application type is same as the original one will cause the background to disappear.

Go to the **Properties** of the widget, to see points are automatically synced to the selected Instances.

For the pasted GS screen name, you can see it displayed as **Copied GS Screen name-tree node name**

(copied from **old tree node name**) from the right-click menu of the tree node.



Tree Node

If you want to change the GS screen name, you can click **Properties** menu from GS Screen tool bar.



Changing GS Name

And provide a **Menu Display Name**.

GS Screen Properties

Name:

GSLink-ULS1 Leeds(Copy from 183-1)

Menu Display Name:

ULS1GSLink

Description:

External URL:

Multi-Association Expr:

Background Color:

Border:

Auto Scale:

☒

Published:

☐

Author:

System Administrator

Date Created/Last Saved:

9/23/2020, 1:35:15 PM

Site Directories Version:

1.4.4B03

GS Screen Schema:

5

Cancel

OK

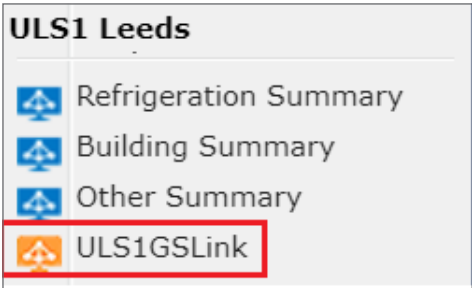
Providing Menu Display Name

Click **OK** from the Properties page and click **Save** the GS Screen.



Saving GS Screen

You will see the menu is updated from the tree node.



Updated Tree Node

8.10 Export GS Screen

You can export a GS screen and send the floor plan to another user for viewing. All GS Screens that are exported will be saved in .ZIP format.

To export the GS Screen, click the export icon in **Edit** mode.



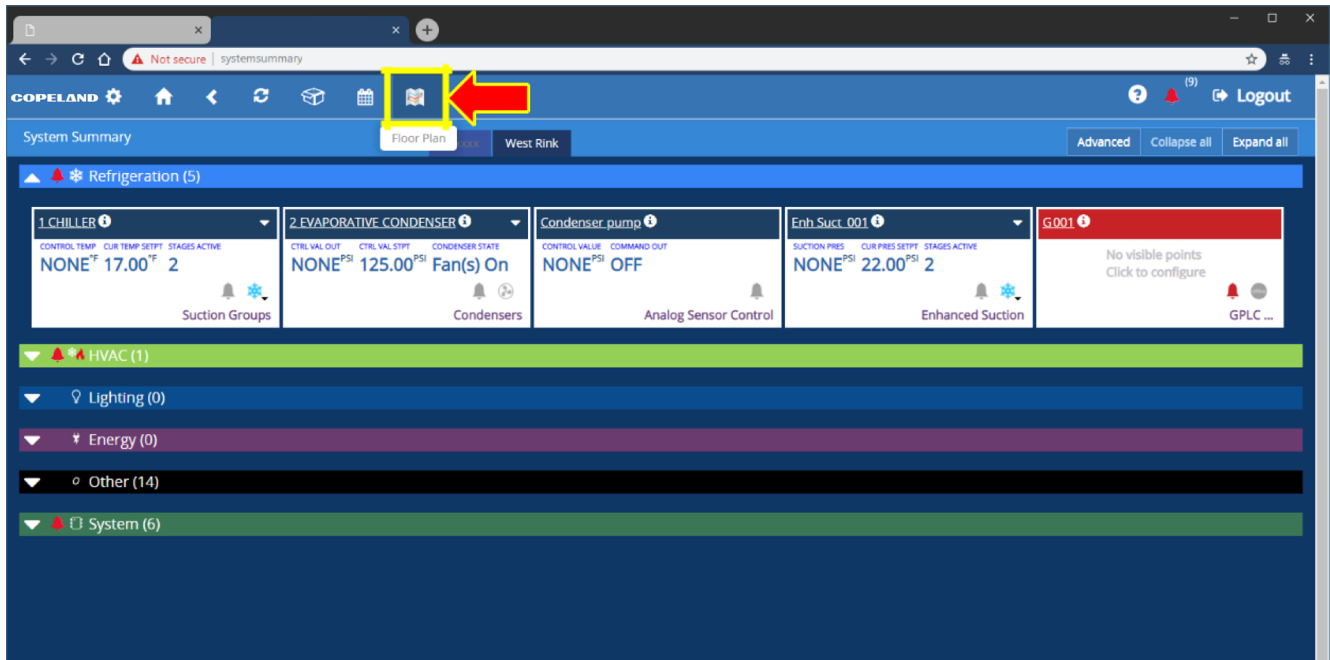
Export GS Screen

After exporting the GS screen, you will see a zip file with the GS screen name that has been downloaded.

This exported GS file can be imported to Site Supervisor/E3 as the floor plan.

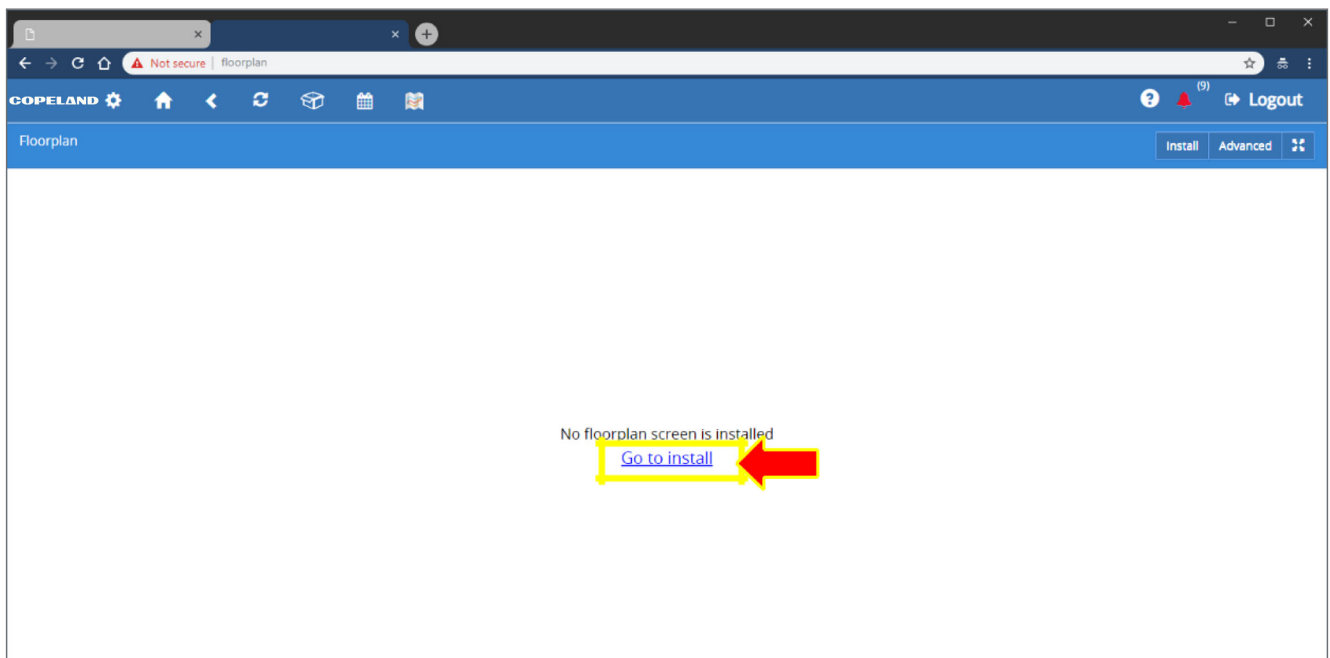
8.10.1 Installing Custom Screens in Site Supervisor

1. Log in to the Supervisor using a **One-Day Password**. Please send an e-mail to ColdChain.TechnicalServices@Copeland.com for the password.
2. After logging in, click the **Floorplan** icon.



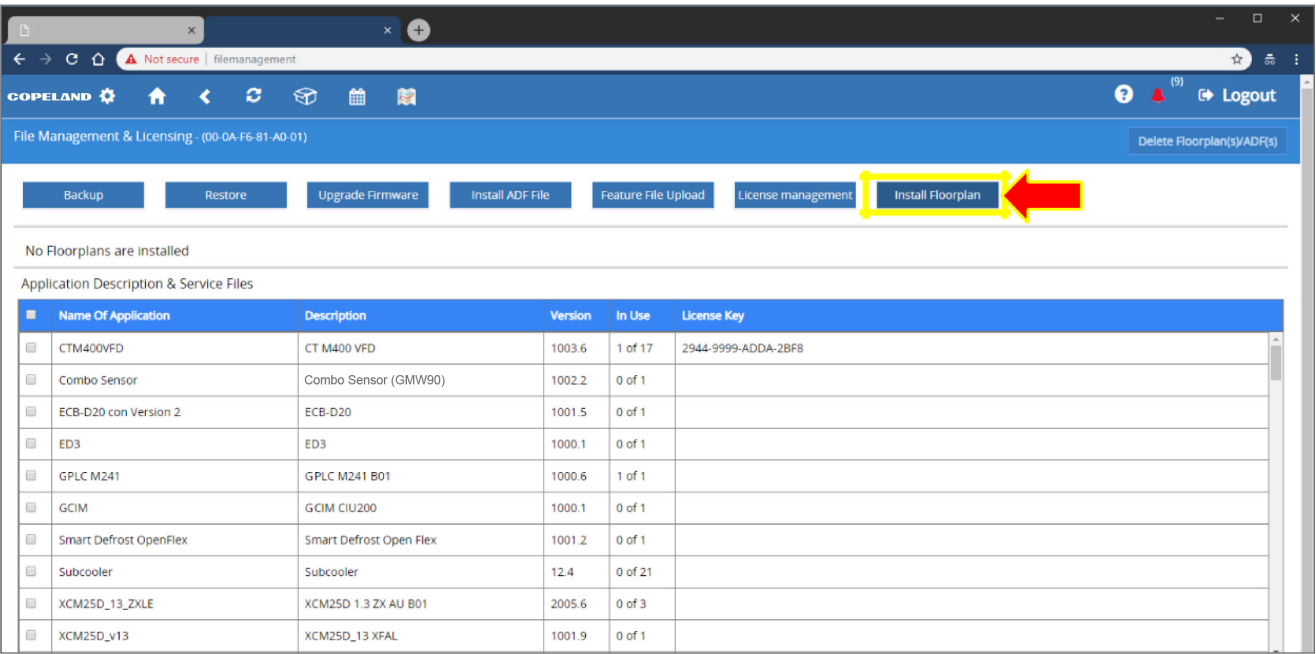
Floor Plan Icon

3. Then click **Go to install**.



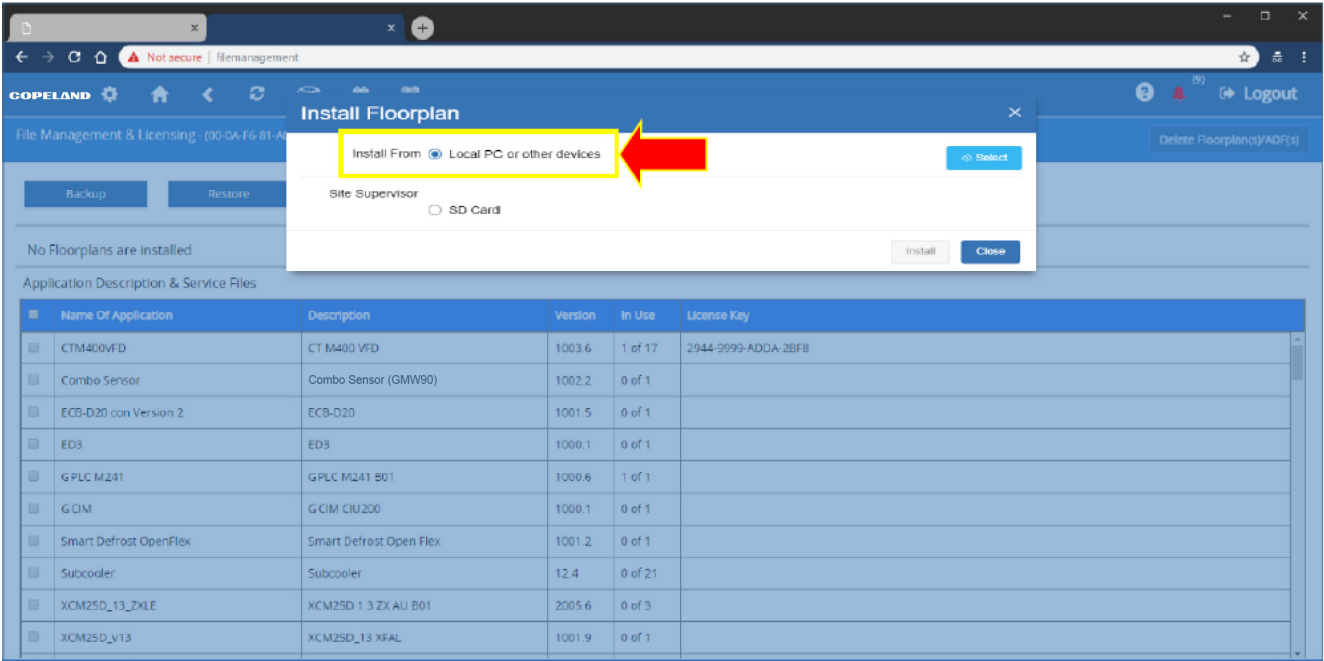
Go to Install

4. Click **Install Floorplan** button.



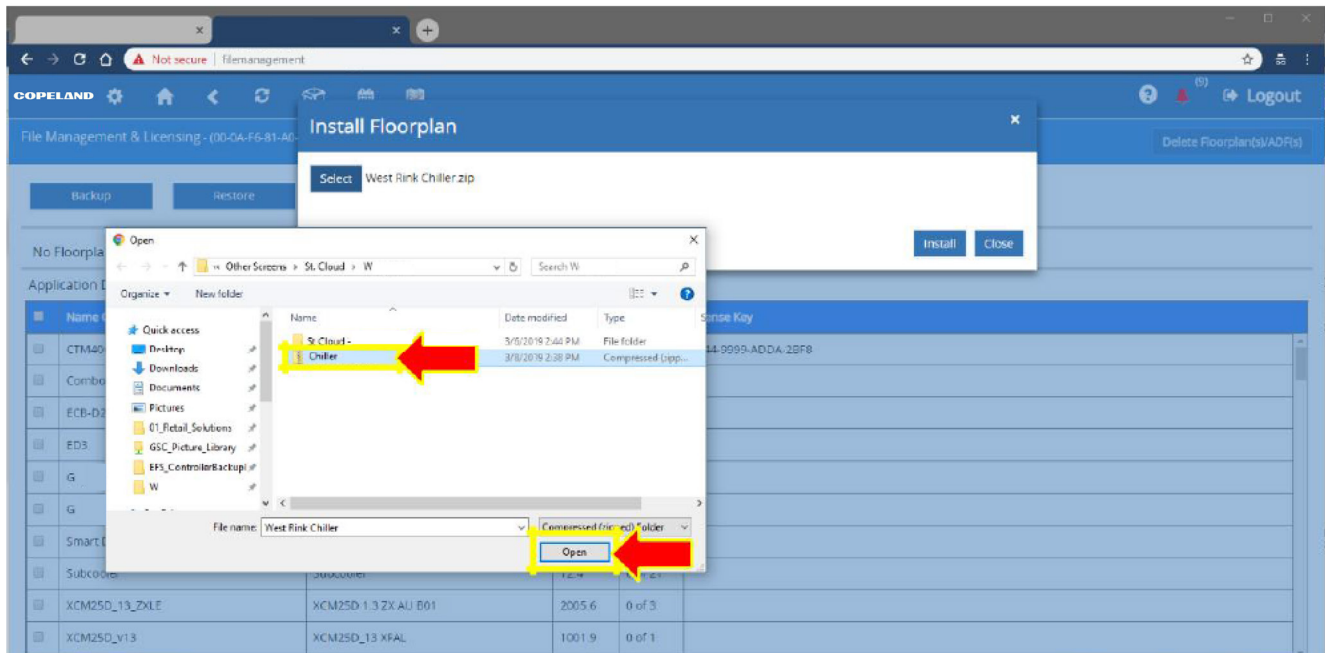
Install Floorplan Button

5. A window will pop out where users will have the option of getting the custom screen file from the local PC or the controller's SD memory card. For this example, click **Local PC or other devices**.



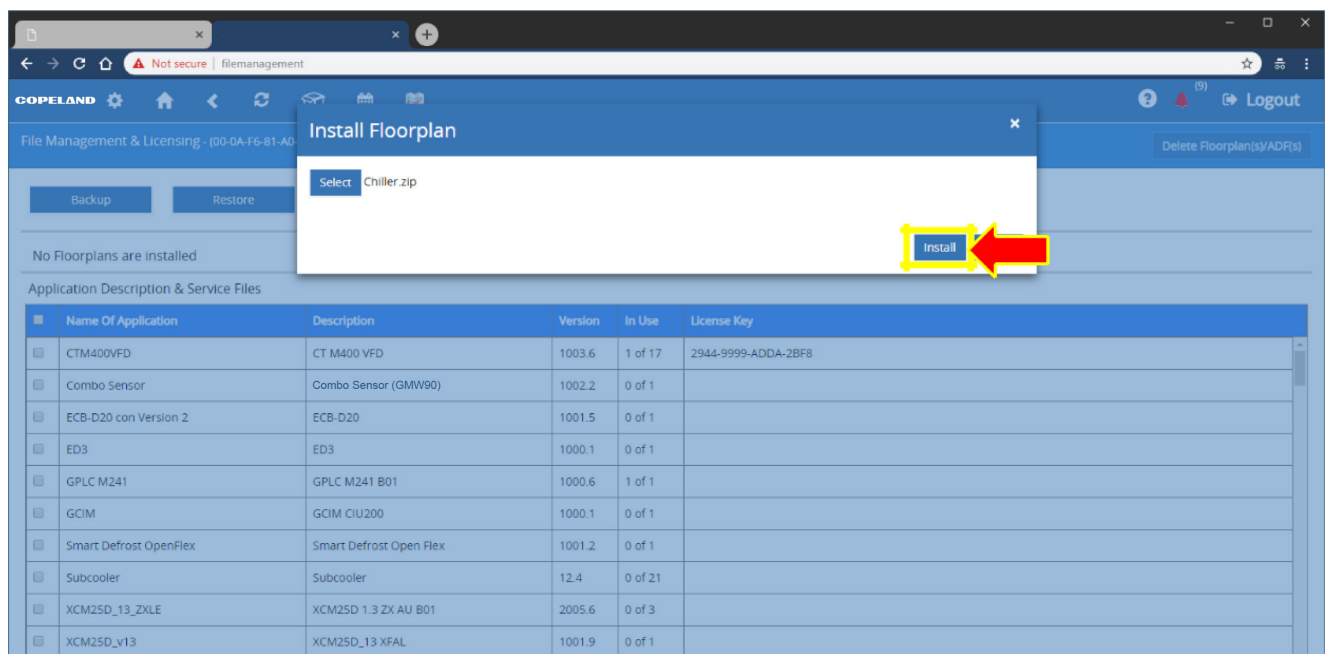
Install Floorplan Window

6. Another window will pop out. This time, navigate to the location of the custom screen file. Highlight the file and click the **Open** button.



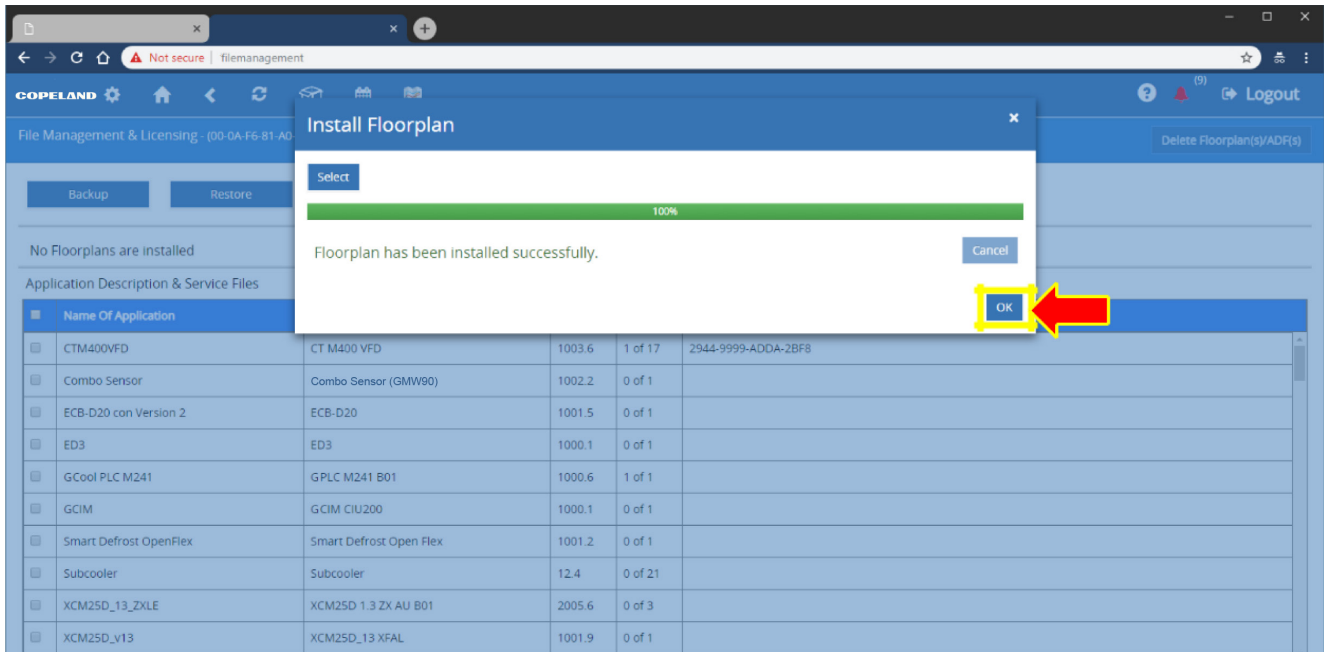
Open Button

7. Click the **Install** button.



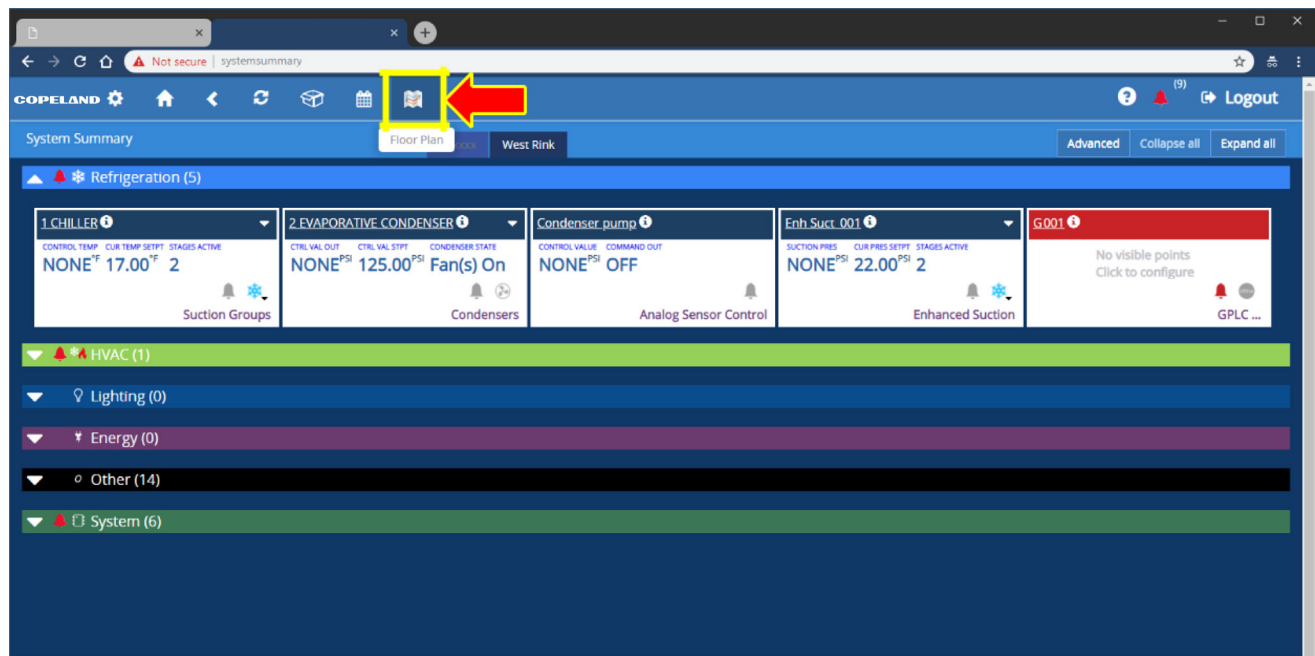
Install Button

8. Wait while the floorplan is being installed. Once completed, you may click the **Ok** button.



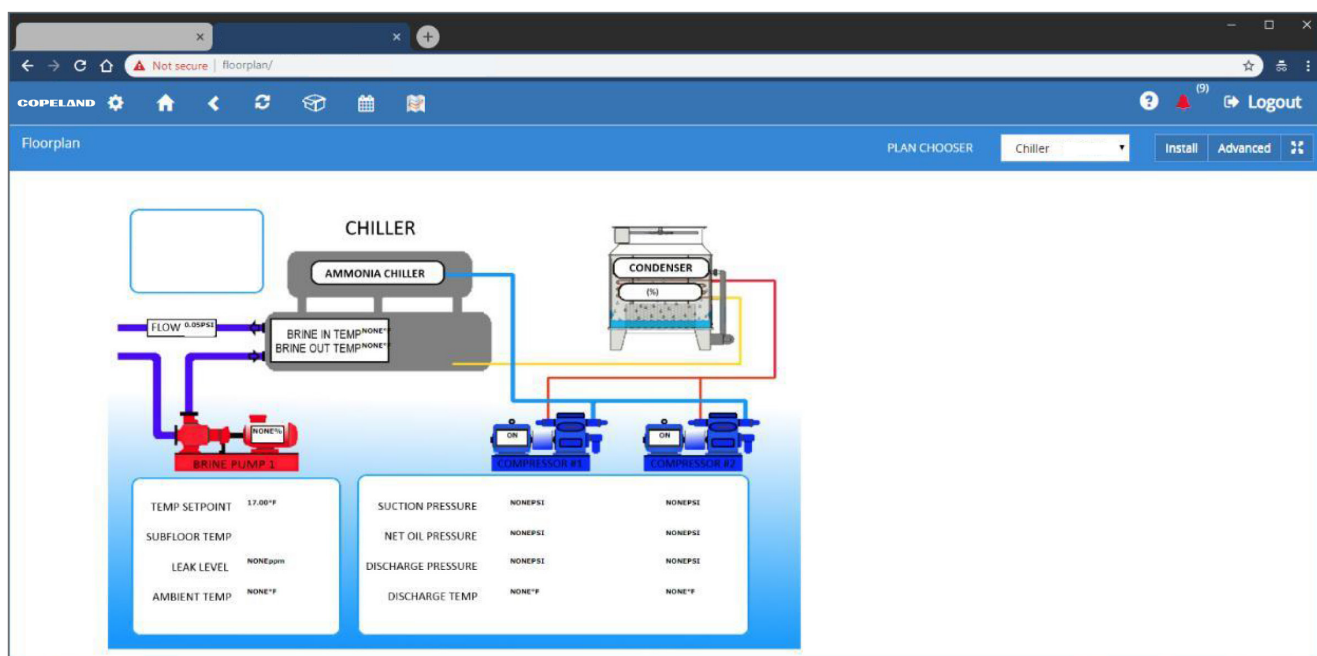
OK Button

9. To access the screen, click the **Floorplan** button on the Main Menu.



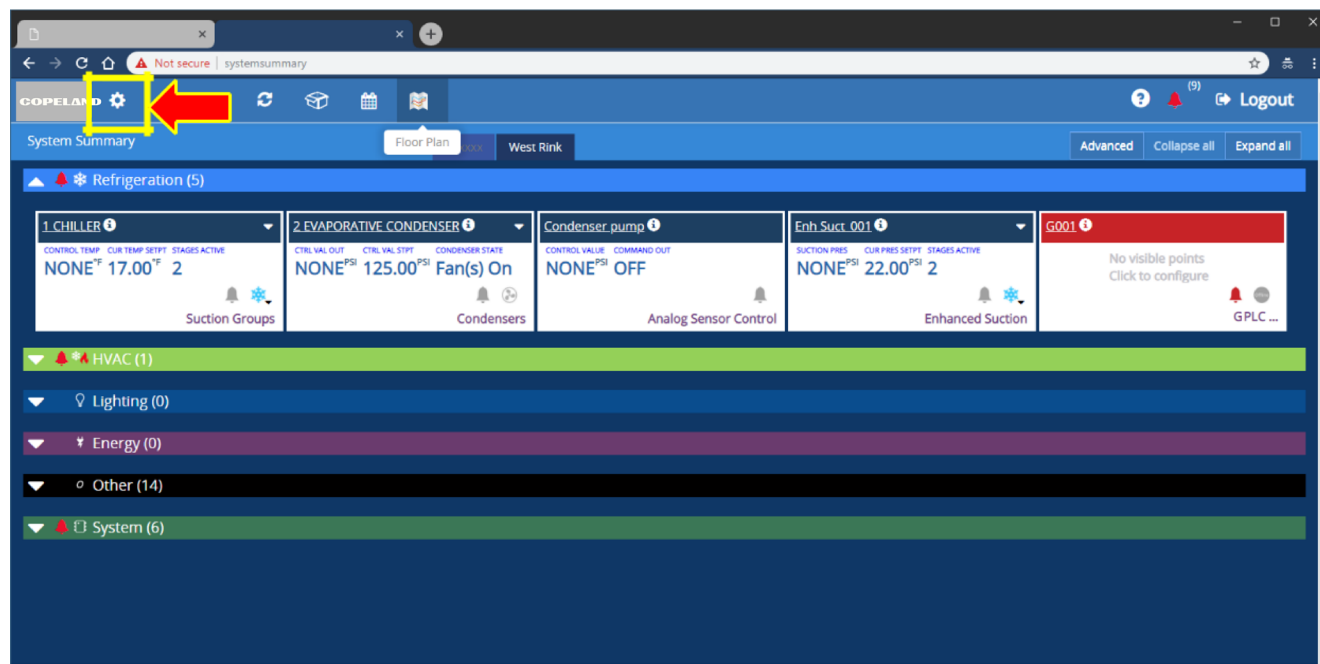
Floorplan on Main Menu

10. The screen will then be shown.



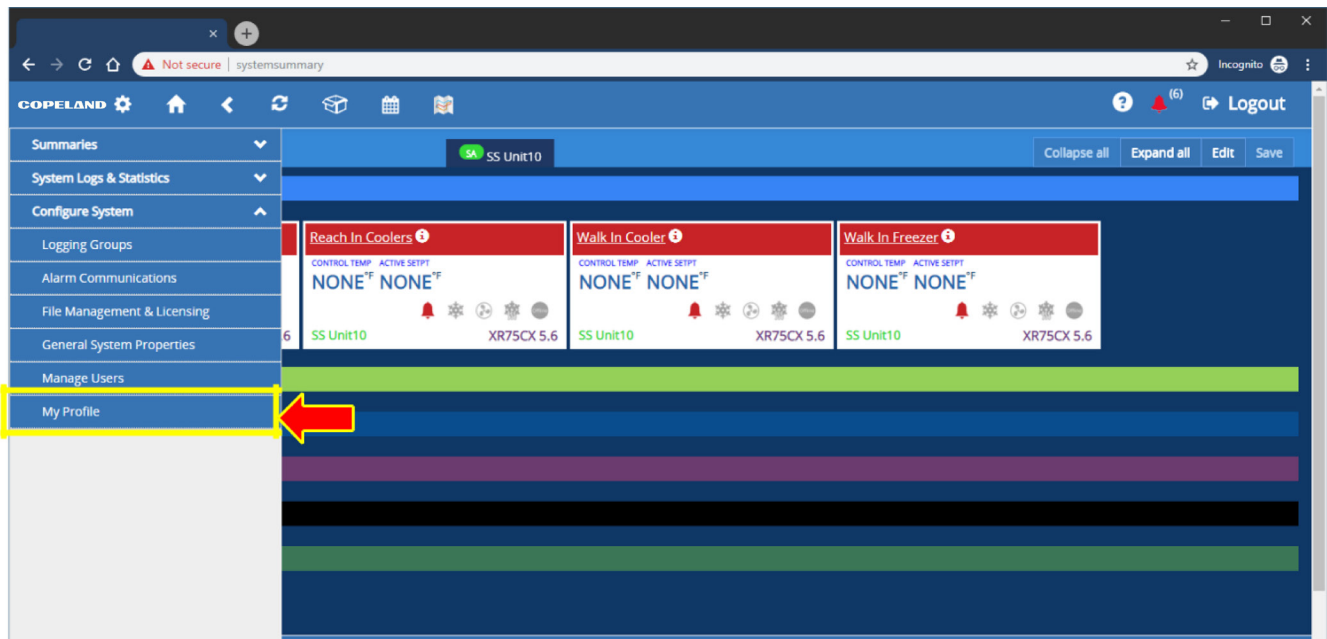
Screen

11. Going back to the Home Page, click on the **Gear** icon.



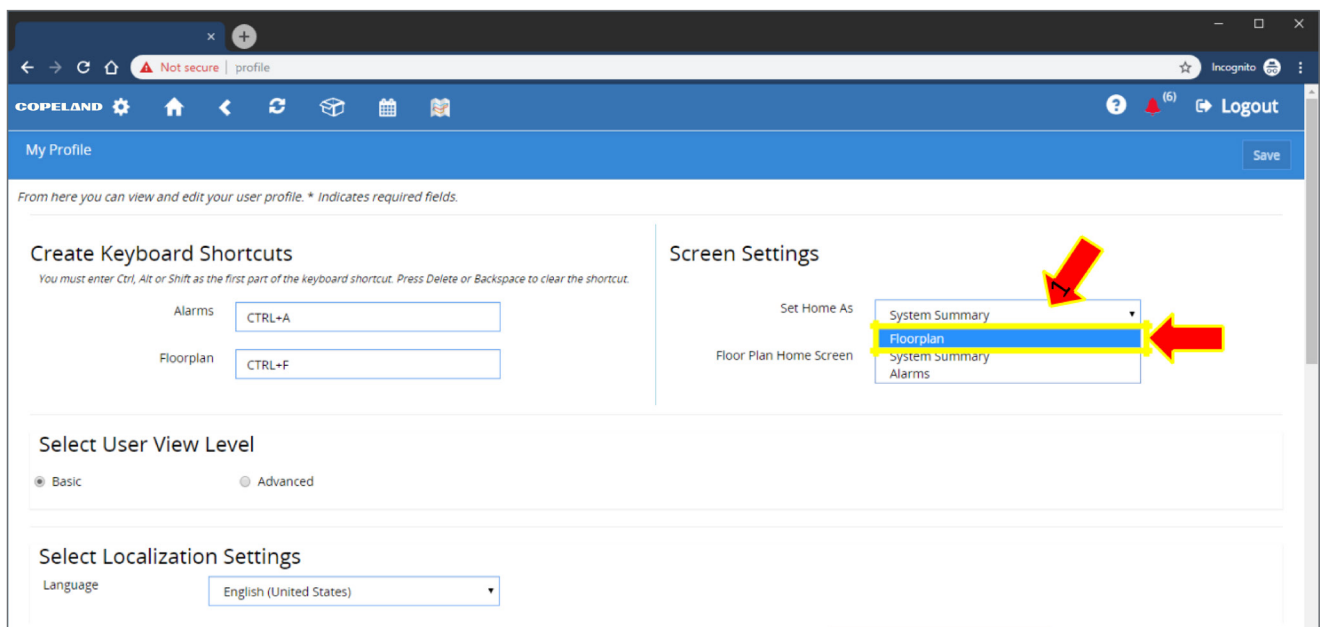
Gear Icon

12. Select **My Profile** on the drop-down menu.



My Profile

13. On my profile, click on selection beside **Set Home As** then chose **Floorplan** on the drop-down menu.



Choose Floorplan

14. Check if the Custom Screen name is automatically filled in on the Home Screen. If not, click on the selection and chose the screen.

The screenshot shows the 'My Profile' page in the COPELAND system. The 'Screen Settings' section is highlighted with a yellow box, and a red arrow points to the 'Floor Plan Home Screen' dropdown menu, which is currently set to 'market'. The 'Set Home As' dropdown is set to 'Floorplan'. The 'Create Keyboard Shortcuts' section shows 'Alarms' set to 'CTRL+A' and 'Floorplan' set to 'CTRL+F'. The 'Select User View Level' section shows 'Basic' selected. The 'Select Localization Settings' section shows 'Language' set to 'English (United States)'.

Custom Screen

15. Click on the **Save** button to finish.

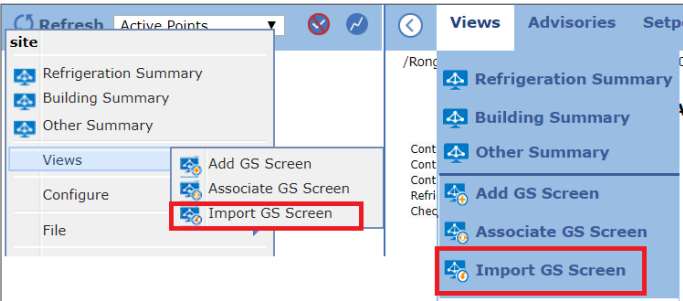
The screenshot shows the 'My Profile' page in the COPELAND system. The 'Save' button is highlighted with a yellow box, and a red arrow points to it. The 'Screen Settings' section is still visible, with 'Set Home As' set to 'Floorplan' and 'Floor Plan Home Screen' set to 'market'. The 'Create Keyboard Shortcuts' section shows 'Alarms' set to 'CTRL+A' and 'Floorplan' set to 'CTRL+F'. The 'Select User View Level' section shows 'Basic' selected. The 'Select Localization Settings' section shows 'Language' set to 'English (United States)'.

Save Button

8.11 Import GS Screen

Importing a GS screen allows you to view and work with a GS screen (that another user may have sent to you) before it is published in the system for all users to see. It will be visible in your Navigation Tree view, but not to other users.

You can import the GS Screen from its associated place on the navigation tree or toolbar manual.



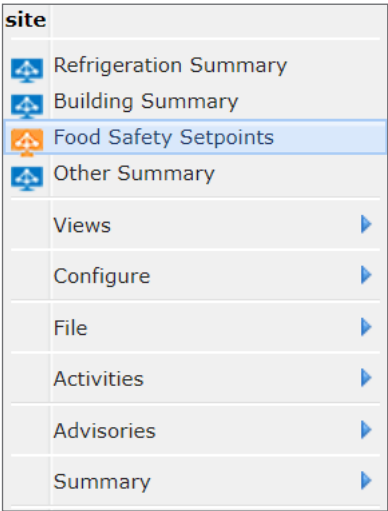
Import GS Screen

Choose a file that you want to import and click the **Import** button.



Choose a file to Import

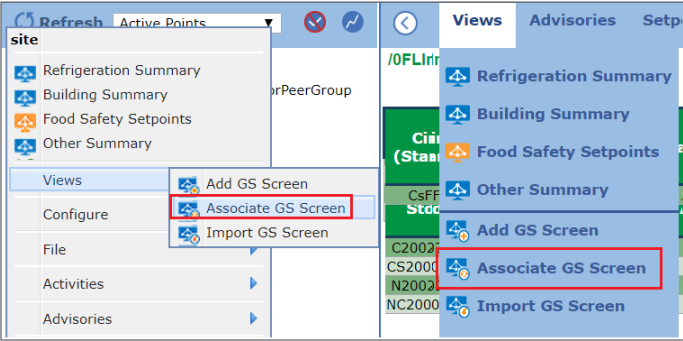
After importing is complete, the new GS screen will be listed on the context menu for that node in the navigation tree.



Navigation Tree

8.12 Associate GS Screen

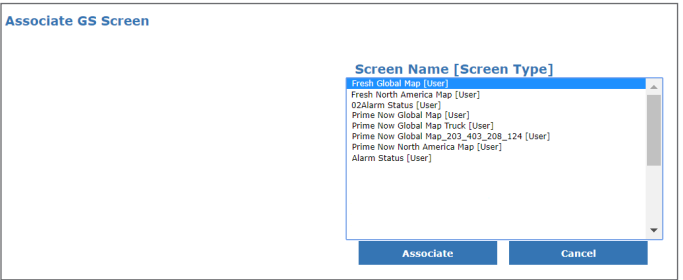
GS Screens can be associated with more than one node or position on the navigation tree. To associate a GS Screen to a particular node or position on the navigation tree, click **Associate GS Screen** from the navigation tree menu or the toolbar menu.



Associate GS Screen

The list is restricted to display only the appropriate level GS Screens. Only the GS Screens that have been published or GS Screens that were created by logged-in users are included in the list. If no screens are listed, no screens have been created for the selected navigation tree-level node. Once a screen has been associated to a specific node on the tree, it will be removed from the list for that node.

Select one GS Screen from the table to associate. After the selection is complete, click the **Associate** button.



Associate Button

When associating is done, the selected GS Screen can be associated to the tree.



Associating GS Screen to the Tree

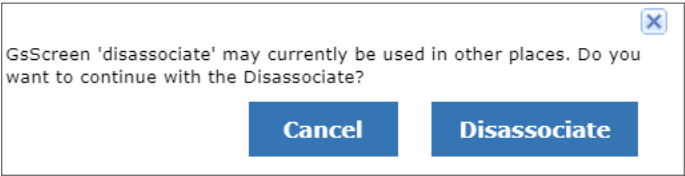
8.13 Disassociate the GS Screen

You can disassociate a GS Screen from the node on the navigation tree it is associated with. Open the GS Screen you would like to disassociate with its current node. Make sure you are in Edit mode and click **Disassociate** from GS Screen menu.



Disassociating from the GS Screen Menu

You will see a message to confirm if you wish to disassociate the GS Screen.

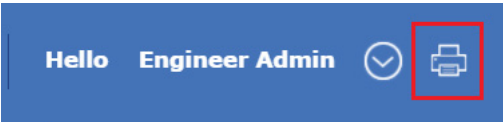


Disassociate the GS Screen

Click the **Disassociate** button. The GS Screen will be disassociated from the current node and can then be associated with another node somewhere else on the tree.

8.14 Print GS Screen

While viewing a GS Screen, you will see a **Print** icon at the topmost right corner of the screen.



Print Icon

Click the icon to export GS Screen a PDF.

8.15 Widgets

8.15.1 Widget Properties

The widget context menu allows you to change the layer positioning of the widget on the GS Screen, duplicate (create additional copies of the widget on the page), delete the widget, or go to the Image Properties editor of the widget, which gives you further configuration options. Right-click on a widget in Edit mode to show the widget context menu.



Widget Content Menu

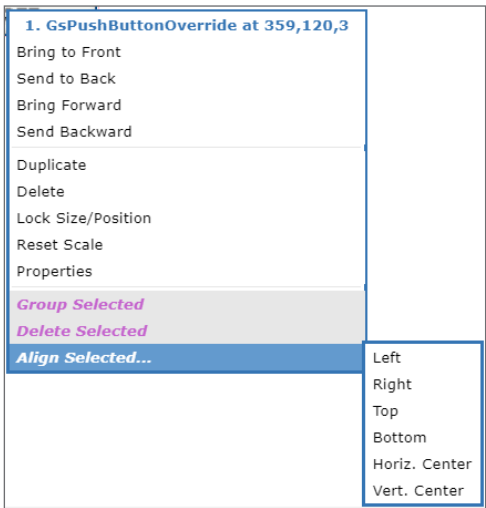
- You can change the settings of each widget with these actions:
- **Bring to Front:** Positions the widget to the top, in front of all other widgets.
 - **Send to Back:** Positions the widget behind all other widgets.
 - **Bring Forward:** Positions the widget one layer down.
 - **Send Backward:** Positions the widget one layer up.
 - **Duplicate:** Creates a copy of the widget along with its properties.
 - **Delete:** Removes the widget from the screen. Selected widgets and grouped widgets can also be deleted by pressing the **Delete** or **Del** keys on your keyboard.
 - **Lock Size/Position:** Saves and holds the most recently set size and position of the widget so it is locked out of clicking, dragging, and other changes. The widget selection handles will turn purple to indicate the widget is locked. When the widget is in lock mode, this menu option will read **Unlock Size/Position**. Click **Unlock** to release the widget.
 - **Properties:** Displays the widget **Property** menu for more configuration options for each widget. The Properties menu options for widgets will vary depending on which type of widget you choose.
 - **Reset Scale:** Click this option to return to the previously configured widget size.
 - **Convert to Sub-Screen (if available):** Zone widgets allow you to create a new GS screen based on a portion of another screen.
 - **Duplicate and Rebase (if available):** Click this option to duplicate the widget. Just as the **Duplicate** option, but additionally the widget will enter a special mode where you can select a different Application Instance (or any node except a point node) to use as a new base for all the references in the widget.

Any previously selected widgets will be unselected and the new duplicated widget will be selected (the Duplicate action by itself will not do this) and the screen editor and main tree will go into a special mode where you must now select a new node from the main tree to use as a base for all the references in the widget(s). The tree background will be highlighted yellow, and a pop up bubble will display with instructions and a **Cancel** link to exit this mode. Canceling will not remove the duplicated widget but will cause the widget to have the same references based on where they were in the widget from which it was duplicated from.

The tree will automatically synchronize to the application instance of the first reference of the widget being duplicated when first entering this mode (because in most cases the designer would probably want to select the next application instance in sequence after it.) You may continue to edit widgets in any way while in this special mode, and even select other widgets. Once clicking on a node in the tree, all selected widgets will be “rebased” to that node. Group widgets that are selected will also have all their sub-widgets rebased in this way. Undo by pressing Ctrl+Z just like any other editing action can be undone.

8.15.2 More Widget Editing

- **Selecting Multiple Widgets:** Multiple widgets can be selected by using the mouse to click and drag to enclose widgets within a selection rectangle, or by pressing the **Shift** key while clicking desired widgets. After you have selected multiple widgets, they can be grouped using the right-click menu option.
- **Deselecting:** To deselect widgets, click the area outside the widget(s).
- **Resizing/Scaling:** All widget types can be resized by clicking on the widget and using the red selection handles that appear on the edges. Drag the edges to resize and the entire image will scale. Note that real-time indication of x, y position is shown automatically when moving widgets. (Reminder: Click **Reset Scale** return to the last saved widget size.)
- **Alignment:** Before grouping widgets, you can fine-tune the widgets’ placement right by selecting **Align Selected** on the widget’s right-click menu. Widgets move in one-pixel increments.



Widget Menu

- » **Left:** Aligns selected widgets to the left.
- » **Right:** Aligns selected widgets to the right.
- » **Top:** Aligns the top of the widgets equal (flush) with each other.
- » **Bottom:** Aligns the bottom of the widgets equal (flush) with each other.
- » **Horiz. Center:** Centers the widgets equally horizontal depending on the starting position of the widgets. For example, if the widgets are vertical to each other to begin, one will be placed on top of the other, hiding the widget. To undo, click the area outside of the widgets.
- » **Vert. Center:** Stacks the widgets equally vertical (one above the other) depending on the starting position of the widgets. For example, if enough space separates the widgets to begin, they will be stacked one directly above the other. Widgets will overlap if there is a negligible amount of space separating them before vertically centering occurs. To undo, click the area outside of the widgets.
- **Grouping:** After selecting the widgets to be grouped, click the **Group Selected** option on the widget right-click menu. The selected widgets are now grouped together and will allow you to move them as a whole. Red boxes will appear around the grouped widgets as a whole and disappear from around individual widgets. To undo, choose from two options that appear on the widget right-click menu:
 - » **Ungroup This:** Ungroups a single widget with-in the group. Place the cursor on the widget you wish to ungroup and select **Ungroup This**. To finish separating, click off the widget and then reselect it to move. Red boxes will reappear at the corners of the widget to indicate it has been ungrouped.
 - » **Ungroup Group:** Ungroups all widgets within a group. Red boxes will reappear at the corners of individual widgets.
- **Duplicating:** Right-click the widget you wish to duplicate and select **Duplicate** from the menu. Finish by clicking outside the newly created widget to deselect from the first widget. If this option is chosen on grouped widgets, the entire group will be duplicated.
- **Deleting:** After multiple widgets have been selected (two or more), they can be deleted by clicking **Delete Selected**. This will remove all selected widgets from the screen.

8.15.3 Image Library

For some widgets, it allows you to upload your image for your system. For example, GsImage, GsImageCircuitStatus, GsImageOnOff, etc.

You can right- click the widget and select **Properties**.

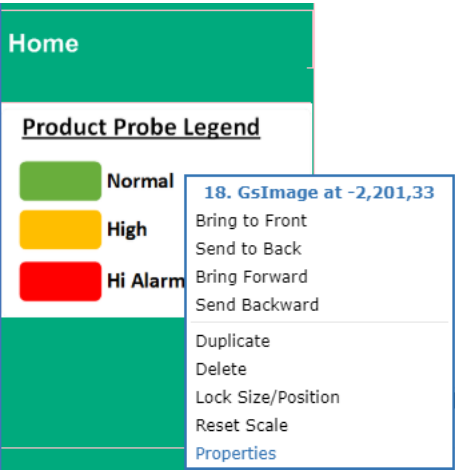


Image Uploading

You will see an **Images** section: click the **Browse** button to open the Image database\library to begin using images by the user.

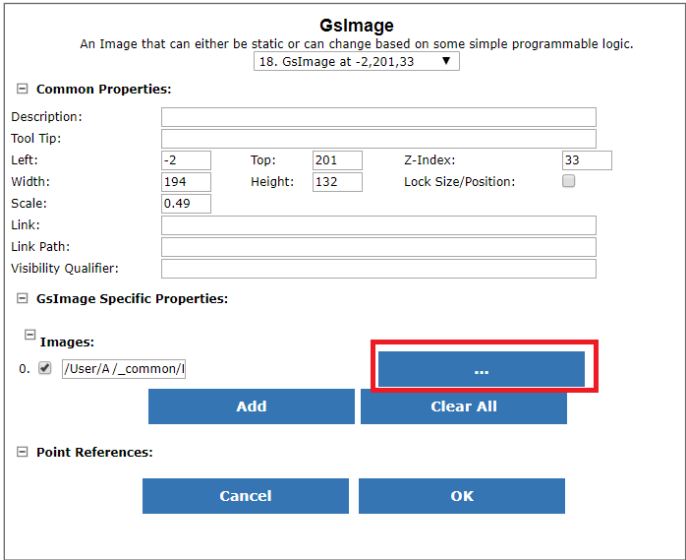


Image Section

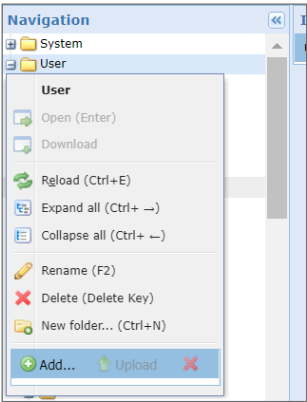
There are two types of images in the database: preset system images and user images the user imports by right-clicking the **User** folder. All are listed in alphabetical order. **User** images are images created, modified, and/or uploaded by the user and may also be deleted from the database.



User Images Database

User images can be found in folders created by users, or in the **User** folder. **System** images may not be changed or deleted from the database because they are preset in the system.

To add your own image, right-click on **User** and select **Add to**, choose an image from your computer.



Adding Image

The image will be displayed at the bottom of the menu.

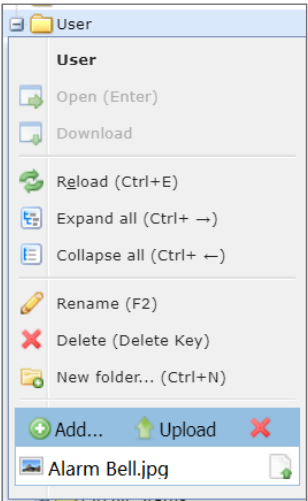
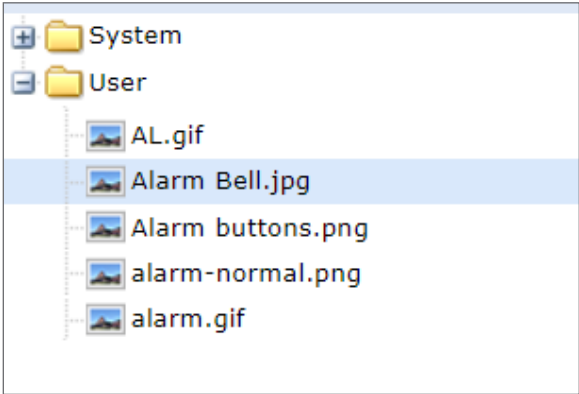


Image is displayed on Bottom Menu

Click **Upload** and you will see the image is added to the **User** folder.



Uploading Image to the User Folder

Use the image database\library to add images to your widgets. Choose images from **System** and **User** directories on the **Navigation** side and create your own directories to store the user images you create. Use and edit images from the image database by selecting the image from the tree and clicking **Use This Image**.



Use this Image Menu

Each widget has its own unique functionality depending on how you want the widget to behave and what points the GS Screen will be connected to. For example, ON/OFF states, defrost overrides, values (text widgets), analog and digital states.

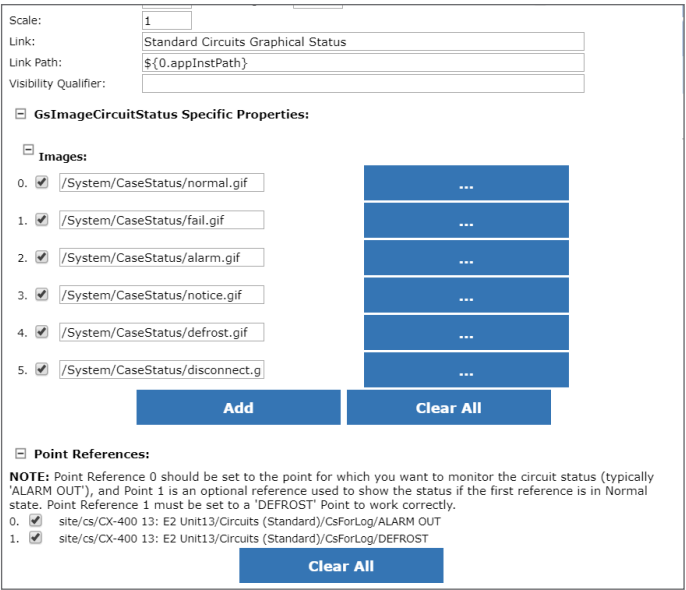
8.15.4 Point References for Image Circuit Status and Zone Circuit Status Widgets



Point Reference in Menu

For both **GsImageCircuitStatus** and **GsZoneCircuitStatus** widgets, only the Alarm Out and Defrost points can be associated with these two widgets in this order:

- 1. 1st point reference is ALARM OUT
- 2. 2nd point reference is DEFROST



Alarm Out/ Defrost

The **GsImageCircuitStatus** and **GsZoneCircuitStatus** widgets have color indicators that will change based on the point being in alarm or defrost. For example, **GsZoneCircuitStatus** can be used to cover a zone or area on the floor plan. The colors will change depending on the information received from the controller regarding alarm and defrost states. Upload and use any image to show the state of the point.

The **GsImageCircuitStatus** and **GsZoneCircuitStatus** widgets have a default **Link of Standard Circuits Graphical Status** and a default **Link Path** of **/\${0.appInstPath}**.

This means when **GsImageCircuitStatus** and **GsZoneCircuitStatus** widget types are newly added, when clicked, they will go to the Standard Circuits graphical status screen for the application on the first point reference on the widget by default.

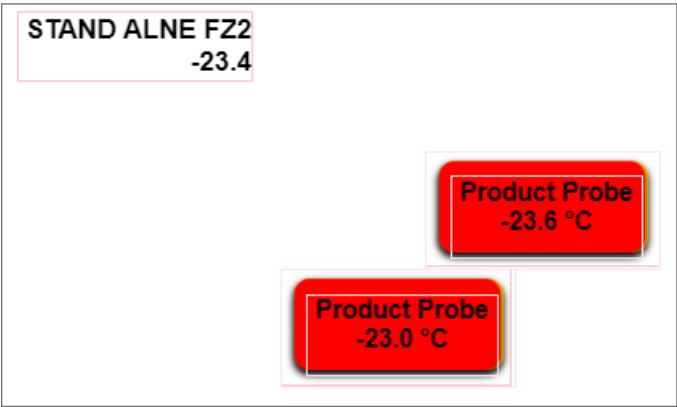
8.15.5 GsText and GsTable Widgets



GsTable:

| FOOD SAFETY SETTINGS | | | | | | | |
|----------------------|--------------|----------|-------|---------------|--------------|--------------|------------------------|
| Circuit (Standard) | Current Temp | Setpoint | Alarm | State | Air Alarm Hi | Air Alarm Lo | Air Alarm Delay (h:mm) |
| C01 CLR2DRGRM | 3.0 °C | 2.0 °C | .. | REFRIGERATION | 6.0 °C | -8.0 °C | 0:40 |
| C02 CLR2DRGRM | 3.4 °C | 2.0 °C | .. | REFRIGERATION | 6.0 °C | -8.0 °C | 0:40 |
| CHILLER 01 | NONE °C | 0.0 °C | ALARM | REFRIGERATION | 6.0 °C | -8.0 °C | 0:45 |
| CHILLER 010 | NONE °C | NONE °C | ALARM | REFRIGERATION | 6.0 °C | -8.0 °C | 0:45 |
| CHILLER 011 | NONE °C | NONE °C | ALARM | REFRIGERATION | 6.0 °C | -8.0 °C | 0:45 |
| CHILLER 012 | NONE °C | NONE °C | ALARM | REFRIGERATION | 6.0 °C | -8.0 °C | 0:45 |
| CHILLER 013 | NONE °C | NONE °C | ALARM | REFRIGERATION | 6.0 °C | -8.0 °C | 0:40 |

GsText:



GsText
Displays free-form text intermixed with point reference values and properties.
1. GsText at 126,101,3

Common Properties:

Description:

Tool Tip:

Left: Top: Z-Index:

Width: Height: Lock Size/Position: ☐

Scale:

Link:

Link Path:

Visibility Qualifier:

GsText Specific Properties:

Label Text:

Text Alignment:

Font Size:

Font Family:

Font Weight:

Font Style:

Font Variant:

Color:

Background Color:

Border:

Point References:

0. ☒ E2 Unit13/Condensers/COND 5 MIN/CTRL VAL STPT

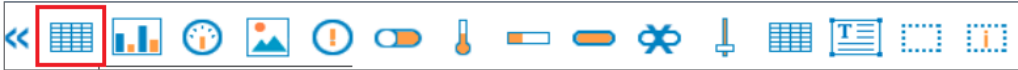
For text and table widgets, some of the text features you will see on screen are listed in the **Property** column. The options you can enter manually are listed in the **Description** column.

| Property | Description |
|-------------------------|---|
| Text Alignment | Center, Left, Right |
| Font Size | 9px, 10px, 12px |
| Font Family | Times, Courier, Arial |
| Font Variant | Normal, Small Caps |
| Font Style | Italic, Normal, Oblique |
| Font Weight | Normal, Bold, Bolder, Lighter, or enter a numeric value from 100 -900 (normal = 100, bold = 700) |
| Header Color | Enter a color value in this field: blue, green, etc. |
| Header Background Color | Enter a color value in this field to set the color of the background header: Blue, Green, d0d0d0, etc. |
| Header Boarder | Enter a pixel size and color value in this field to specify the header border attributes, for example: 2px solid blue |
| Header Inside Boarder | Enter a pixel size and color value in this field to specify the header inside border attributes, for example: 1px solid black |
| Row Header | Specify the values to appear in the row header separated by commas, for example: Unit, Application, Point, Type, Value |

The GS Table widget has a **Column Widths** feature so that the width of each column can be set manually. This list is a comma-separated list of pixel widths for each column. Each column can have its visibility controlled if the header item for that column has a reference to a point reference and that point reference is not visible.

8.15.6 GsAppSummaryTable Widget

The Summary Screen widget **GsAppSummaryTable** will be available on the GS Screen at the control system, unit, and application type levels on the tree. It will not appear on the widget menu for screens at directory, site, and application instance levels.

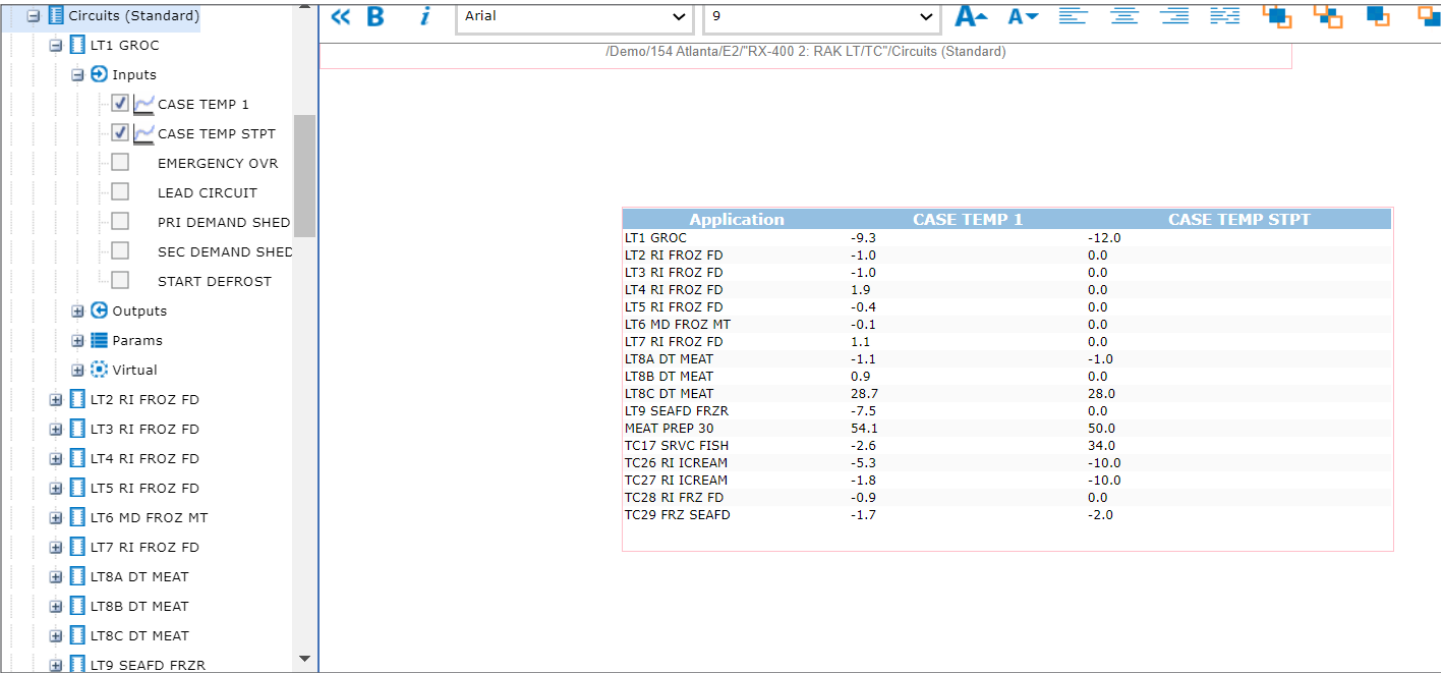


GsAppSummaryTable Widget

Click **GsAppSummaryTable** on the **Add Widget** palette to add this widget to your GS screen.

GsAppSummaryTable can list all the same points of one unit's same application types in the table. Points to be associated with this widget can be pre-selected before selecting the widget.

For example, when you select CASE TEMP1 and CASE TEMP STPT from one Circuits (Standard), after clicking GsAppSummaryTable, you will see all Circuits (Standard) instances listed in the table with CASE TEMP1 and CASE TEMP STPT points.



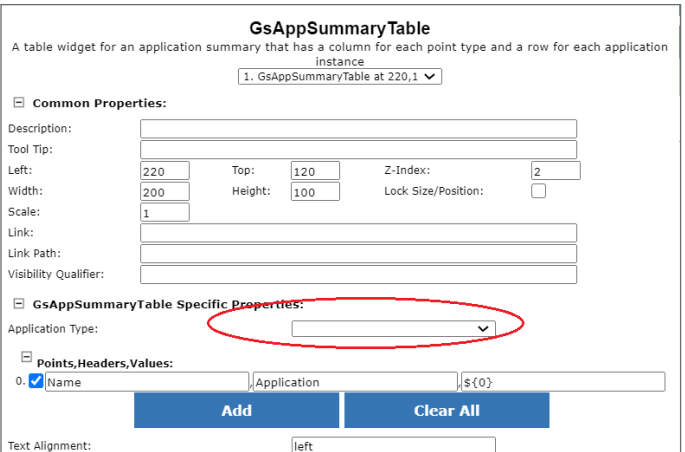
Editing Widgets Property

To edit the widget's properties, right-click the widget and click **Properties**.

The **Application Type** is auto selected for the widget. There is only one valid application type if the GS screen is at that level of the tree.

Application rows will be generated for all corresponding application types found for the specified application type where the GS screen is located. This can span multiple units if the GS screen is at control system level.

Note that the widget will not show any application rows until an **Application Type** is selected from the **Properties** page.



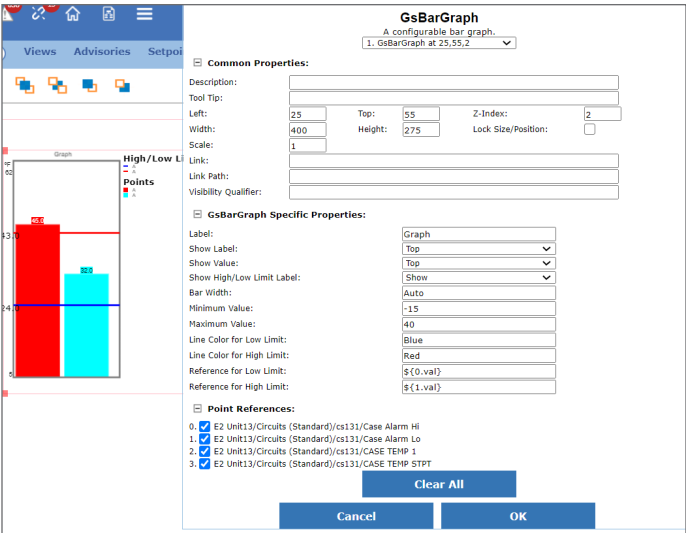
GsAppSummary Table

8.15.7 GsBarGraph

The GsBarGraph widget uses bars as a representation of point reference status. Each colored bar on the graph along the X-axis represents a point reference and the height of the bars corresponds to the point value on the Y-axis. High and low limits are indicated by the lines across the graph.



Click **GsBarGraph** on the **Add Widget** palette to add this widget to your GS screen. To edit the widget’s properties, right-click the **Widget** and click **Properties**.



GsBarGraph

| Property | Description |
|---------------------------|--|
| Label | The name or description that will appear on the widget. The default setting is Graph . |
| Show Label | Location on the widget where the label will be displayed. |
| Show Value | Select whether to display the actual values or not, and lets you select where to display values on the widget. |
| Bar Width | Width of the bars in pixels. The default value is Auto, which means the bar width will adjust automatically based on the number of bars displayed. |
| Minimum Value | The lowest number that the Y-axis can display if it cannot be determined automatically from setpoint values. |
| Maximum Value | The highest number that the Y-axis can display if it cannot be determined automatically from setpoint values. |
| Line Color for Low Limit | The line color of the low limit across the graph from left to right. Default color is blue. |
| Line Color for High Limit | The line color of the high limit across the graph from left to right. Default color is red. |
| Reference for Low Limit | Low limit reference point on the Y-axis. |
| Reference for High Limit | High limit reference point on the Y-axis. |

Use the legend on the right-hand side of the graph to reference the points associated with each bar.

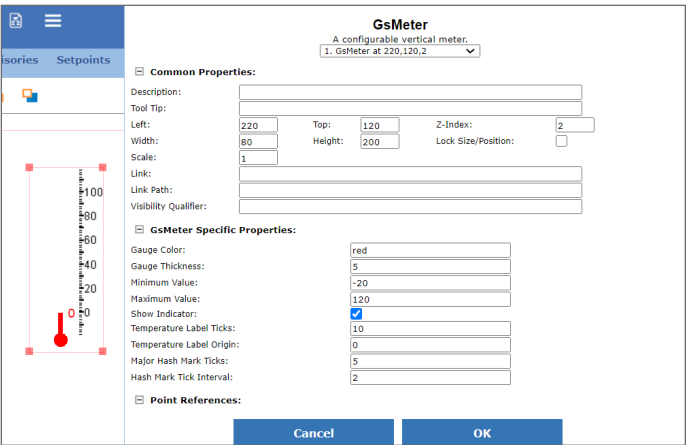
8.15.8 GSMeter

The GsMeter is a vertical scale widget that can display a point value (usually a temperature or pressure reading) by referencing or associating the widget with a point in the navigation tree. The gauge indicator moves up or down as the value of the point being referenced changes in real time.



Click **GsMeter** from the **Add Widgets** palette to add the widget to your GS Screen. Right-click the **Widget** and click **Properties** to change the widget’s properties (for example, image dimensions, gauge color, scale values, and more).

Note that if the widget is associated with more than one point in the navigation tree, only the primary point reference value will be displayed.



GsMeter

| Property | Description |
|--------------------------|--|
| Gauge Color | The color of the gauge indicator. The default color is red. To change the color, enter the name of the color into the field. |
| Gauge Thickness | The thickness of the indicator in pixels. |
| Minimum Value | The lowest possible value that the scale can display (at what number the scale starts). |
| Maximum Value | The highest possible value that the scale can display (at what number the scale ends). |
| Show Indicator | Enable the check-box to show the actual point value on the indicator or disable to hide the value. |
| Temperature Label Ticks | The number of tick marks between to major tick mark labels on the meter. |
| Temperature Label Origin | With what value the scale starts to show the number. |
| Major Hash Mark Ticks | The number of ticks a mark stands for. |
| Hash Mark Tick Interval | The number of units a tick stands for. |

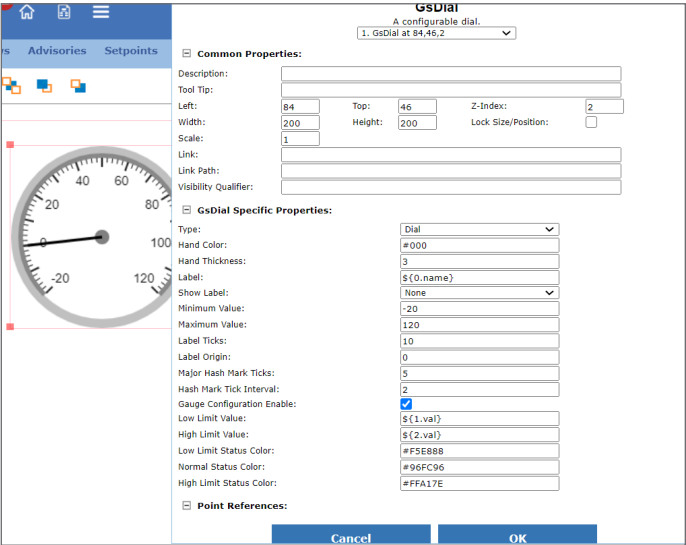
8.15.9 GSDial

Similar to the GsMeter, the **GsDial** widget displays real-time point value by associating the widget or referencing it to a point in the navigation tree. This widget has a pointer (indicator) that moves and points to a value in the scale depending on the current value of the widget’s point reference.



GsDial Widget

To add this widget to a GS Screen, click **GsDial** on the **Add Widgets** palette. To modify the widget’s properties, right-click the **Widget** and click **Properties**.



GsDial

| Property | Description |
|-----------------------|---|
| Type | The kind of GsDial to use (Dial or Meter). |
| Hand Color | The color of the gauge indicator or hand. The default color is blue. To change the color, enter the name of the color into the field. |
| Hand Thickness | The thickness of the indicator in pixels. |
| Label | The name or description that will be displayed for the widget. This defaults to #{0.name} , which is the name of the point as it appears in the Navigation tree or context menu title. |
| Show Label | Location of the widget where the label will be displayed. |
| Minimum Value | The lowest possible value that the scale can display (at what number the scale starts). |
| Maximum Value | The highest possible value that the scale can display (at what number the scale ends). |
| Label Ticks | The number of tick marks between two major tick-mark label on the dial. |
| Label Origin | With what value the scale starts to show the number. |
| Major Hash Mark Ticks | The number of ticks each mark stands for. |

| Property | Description |
|----------------------------|--|
| Hash Mark Tick Interval | The number of units a tick stands for. |
| Gauge Configuration Enable | Enable the check-box to enable additional gauge configuration. |
| Low Limit Value | Ceiling/Upper limit value for the low limit range. |
| High Limit Value | Starting/Lower limit value for the high limit range. |
| Low Limit Status Color | Color that represents the low limit range. |
| Normal Status Color | Color that represents the normal value range. |
| High Limit Status Color | Color that represents the high limit range. |

8.15.10 GSPercentageBar



GSPercentageBar Widget

The **GsPercentBar** widget displays point reference value in percentage.

To add this widget to a GS Screen, click **GsPercentBar** on the **Add Widget** palette. To edit the widget’s properties, right-click the **Widget** and click **Properties**.

Note that if the widget is associated with more than one point in the navigation tree, only the primary point reference value will be displayed.

| Property | Description |
|---------------------|--|
| Label | The name or description that will be displayed for the widget. This defaults to \${0.name}, which is the name of the point as it appears in the Navigation tree or context menu title. |
| Show Label | Location on the widget where the label will be displayed (Top, Bottom, Left, or Right). |
| Show Value | Allows you to select whether to display the actual value of the point reference and measurement. Unit or not, and lets you select where to display the value on the widget. |
| Bar Fill Color | The color of the percentage bar. The default color is blue. To change the color, enter the name of the color into the field. |
| Show Percentage | Enable the check-box to show the percentage number value. |
| Show Low/High Value | Enable the check-box to show the low and high values at the bottom of the widget. |
| Low Value | The low reference point value. |
| High Value | The high reference point value. |

8.15.11 GsPushButton



GsPushButton Widget

To jump to another GS Screen, you can use **GsPushButton**. To add this widget to a GS Screen, click **GsPushButton** on the Add Widget palette. To edit the widget’s properties, right-click the **Widget** and click **Properties**.

GsPushButton

| Property | Description |
|----------------|--|
| Label Text | The label name will be displayed on the button. |
| Text Alignment | Center, Left, Right |
| Font Size | 9px, 10px, 12px |
| Font Family | Times, Courier, Arial |
| Font Variant | Normal, Small caps |
| Font Style | Italic, Normal, Oblique |
| Font Weight | Normal, Bold, Bolder, Lighter, or enter a numeric value from 100 -900 (normal = 100, bold = 700) |

8.15.12 GsPushButtonOverride

GSPushButtonOverride widget type provides a constant override or will cancel the override on the referenced point.



GsPushButtonOverride Widget

To add this widget to a GS Screen, click **GSPushButtonOverride** on the **Add Widget** palette. To edit the widget’s properties, right-click the **Widget** and click **Properties**.

GsPushButtonOverride

When the GS screen is created, properties will be configured for the point to be used for the override, as well as the value being overridden to, and also the length of time to override. The images can be changed to “On” and “Off.” At screen runtime, selecting the image or button will initiate an override of the selected point all the way to the controller. Note also that the status of the override widget will change when the state is read from the controller.

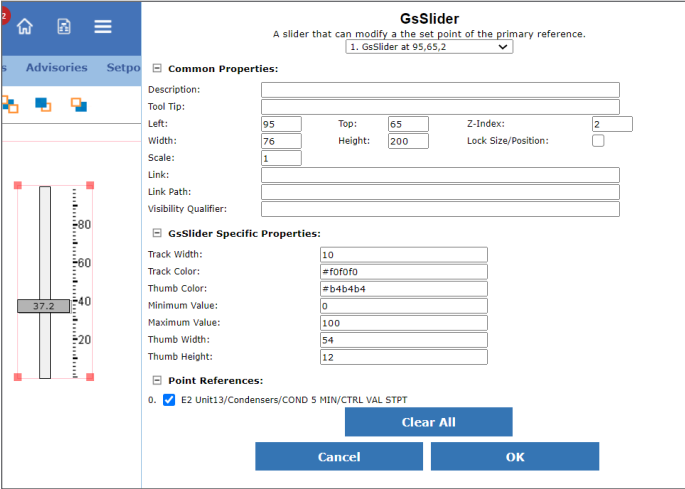
| Property | Description |
|------------|---|
| Type | Could be Timed or Fixed for E2 points and only support Timed for Site Supervisor and E3 points. |
| Time | The field will be displayed once the type is selected as Timed. |
| Value | The override value. |
| Label Text | The label will show on the button. |
| Note | Indicates the label can only support 300 bytes. This information cannot be updated. |

8.15.13 GsSlider

View and change the setpoint setting of a point reference using the **GsSlider** widget. The **GsSlider** widget has a slider control/bar that can be moved up and down to adjust setpoint.



To add this widget to a GS Screen, click **GsSlider** on the **Add Widget** palette. To edit the widget's properties, right-click the **Widget** and click **Properties**.



| Property | Description |
|---------------|---|
| Track Width | Width of the slider track in pixels. |
| Track Color | The color of the slider track. To change the track's color, enter the name of the color into the field. |
| Thumb Color | The color of the slider control/bar. To change the color, enter the name of the color into the field. |
| Minimum Value | The lowest possible value that the widget can display. |
| Maximum Value | The highest possible value that the widget can display. |
| Thumb Width | Width of the slider control/bar in pixels. |
| Thumb Height | Height of the slider control/bar in pixels. |

To change the value of a setpoint, click the **slider bar** and drag it up or down to the new setpoint. It will pop up an override window for you to override the point value. After that, the new overridden setpoint value will be displayed on the widget.

8.15.14 Zone Widgets

Zone widgets allow you to create a new GS screen based on a portion of another screen.

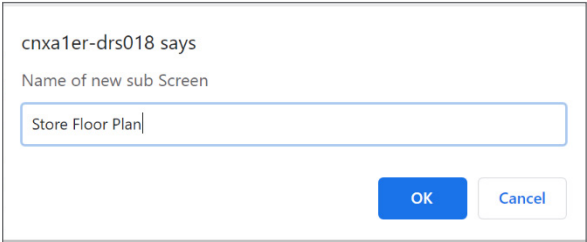


To use this feature, add a new **GsZone** or **GsZoneCircuitStatus** widget, move and size it to cover the area that the new screen should be based on, and then on the widget's right-click menu, click **Convert to Sub-Screen**.



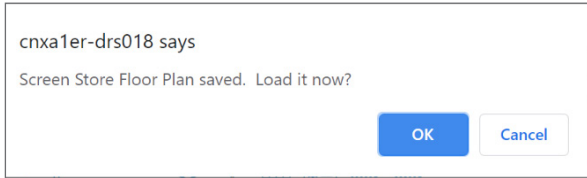
Converting to Sub-Screen

Naming the sub-screen.




Name the Sub-Screen

Saving the sub-screen and reload it.



Save the Sub-Screen

After clicking **OK** button in pop-up window. The subscreen will be shown.



| Point Name | Value |
|--------------|-------|
| COOL STAGE 1 | --- |
| COOL STAGE 2 | --- |
| COOL STAGE 3 | --- |
| COOL STAGE 4 | --- |

Sub-Screen

8.15.15 Common Properties

Right-click on any **Widget**, click **Properties**, and you will see Common Properties section displayed in the first area in the widget properties. It applies to all types of widgets.

GsDial

A configurable dial.

1. GsDial at 220,120,2

Common Properties:

Description:

Tool Tip:

Left: 220

Top: 120

Z-Index: 2

Width: 200

Height: 200

Lock Size/Position: ☐

Scale: 1

Link:

Link Path:

Visibility Qualifier:

Common Properties

| Property | Description |
|-------------------------------------|--|
| Z-Index | Reflects the stacking order of position. |
| Width | The width of the widget in pixels. |
| Height | The height of the widget in pixels. |
| Lock Size/ Position check box | If enabled, values entered in the size and position properties fields will be locked. Any more changes made to these properties will not apply as long as the check box is enabled. To unlock and disable, click to remove the check-mark. |
| Visibility Qualifier | When true, it will make the widget or group visible, and when false, will make the widget or group disappear. |

Link GS Screen

Linking GS Screens: If you link from one widget to another GS Screen, enter the link path and link screen (simply the actual name of the GS Screen). For example, add a push-button widget (GsPushButton) that will allow you to jump to another GS Screen. For the push-button widget on its **Properties** menu, enter the name of the GS Screen you wish to link to in the **Link** field.

GsDial

A configurable dial.

1. GsDial at 220,120,2

Common Properties:

Description:

Tool Tip:

Left: 220

Top: 120

Z-Index: 2

Width: 200

Height: 200

Lock Size/Position: ☐

Scale: 1

Link:

Link Path:

Visibility Qualifier:

Linking Gs Screen

| Property | Description |
|-------------|--|
| Description | Short descriptive information or name of the widget. |
| Tool Tip | The text you enter in this field will appear when you mouse over the widget. Information about particular points associated with the widget, widget name, and more, can be entered in this field. If no text is entered, the regular menu will be available. |
| Left | The number of pixels the widget is from the left. |
| Top | The number of pixels the widget is from the top. |

Reverse-direction linking: To link a GS screen in the reverse direction (backwards) from where you are on the tree, enter ../ in the **Link Path** field for each node of the tree you are going up, including the node you start from. Then add the name of the last tree node the GS Screen will be linked to. For example, if you begin at the Unit level in the tree and the GS screen is to be linked at the Site level:

- Site - Test Site 1 (your ending point)
- CS - Control System 1
- Unit - Controller 1 (your starting point)

Enter ../../Test Site 1 in the Link Path field.

- **Link:** If the GS screen you wish to add to is named "AHU", type the text "AHU" into this field. Note that a URL address can also be entered into this field. When in Run mode, click that widget to go to the link you entered. Be sure to include "http://" or "https://" in the URL address.
- **Link Path:** The link path is how to get to the node of the tree you want to go to from where you are now. If the **Link Path** field is blank, it is assumed that the screen will be loaded at the same Tree node where the current screen has been loaded. This can be done by entering a "relative" path (preferred) or an "absolute" path. For example, the fields would be populated with the "relative" path information below when linking the push-button widget to the AHU GS Screen:

Links: AHU

Link Path: ABC Bldg/ABC E2 Bldg/BX-400 1: Suite 101/Air Handlers (AHUs)/RTU1 - OFFICES

Unique parameters that can be specified as the **Link** on any widget:

- » **\${home}** when this link is clicked on the widget, it causes you to leave the current screen and go to the GS screen home page (if defined). If no home page is defined, or if you are already on the home pages, a pop-up error message will appear.
- » **\${back}** when this link is clicked on the widget, it causes you to leave the current screen and go back a page (just like the browser back button).
- » **\${forward}** when this link is clicked on the widget, it causes you to leave the current screen and go forward a page (just like the browser forward button).
- » **\${graph}** when this link is clicked on the widget, the associated points will be graphed that opens in a separate window. If no points have been associated, an "Invalid Reference" message will appear.

- **\${graph,N...}** will graph a different point (where N is a reference number for a valid reference in the widget). For example, **\${graph,1}** will graph the point specified by reference 1. You can include multiple references in the graph by separating them with commas; for example, **\${graph,0,1,2}** will graph the points specified by references 0, 1, and 2 on the popup graph.
- **\${graph}ScreenName** optionally, you may follow the **\${graph}** link with the name of a screen to show as part of the graph. For example, **\${graph,1,2}GraphSubScreen** would pop up the log graph for the points specified by references 1 and 2, and also load the GS Screen named **GraphSubScreen** as part of the pop-up graph. The GS screen used in the pop-up graph must be specially designed for this purpose.

- **\${graph, 1, ...N}GsscreenName|24** sets a default time period for the pop-up graph (where |24 is the number of hours that can range from 1 to 4320). For example, **\${graph,1,2}GraphSubScreen|8** will pop up a log graph for points specified by references 1 and 2 within the last 8 hours and also load the GS Screen named **GraphSubScreen** as part of the pop-up graph.

- » **\${tree}** applied by default to the screen link path when a GS screen is created, this link parameter causes the navigation tree to synchronize automatically to the location where the GS screen is loaded. By simply clicking on the widget, you can see exactly where in the tree the GS screen is loaded.
- » **\${0.siteID}** this is the ID of the site this point is in.
- » **\${0.controlsystemID}** this is the ID of the control system this point is in.
- » **\${0.unitID}** this is the ID of the unit this point is in.
- » **\${businessAction}businessActionName** creates a link from the current GS Screen to a business action UI screen (where **businessActionName** is the exact business action name that is defined in the business-ActionDescriptor.xml file). By clicking the widget, the page will load the business action screen.

Link GS Screen to PDF

In addition to linking a GS Screen to an external URL or to another GS, a GS Screen can be linked to a PDF.

Place the PDF on a server under the following path:
\\Tomcat\\webapps\\copeland\\vault\\tmp.

Add the URL link into the **link** field of widget property using the format: "http://" + pdf path + pdf name.

For example:

The screenshot shows the 'GsText' widget configuration window. The title bar says 'GsText' and the subtitle says 'Displays free-form text intermixed with point reference values and properties.' Below the subtitle is a dropdown menu showing '1. GsText at 260.160.2'. The 'Common Properties' section includes fields for Description, Tool Tip, Left (260), Top (160), Width (200), Height (18), Scale (1), and Lock Size/Position (unchecked). The 'Link' field is highlighted with a red rectangle and contains the text 'http://cnsa1er-dre009/ /vault/tmp/701_20161220.pdf'. The 'GsText Specific Properties' section includes fields for Label Text (TestPDFLink), Text Alignment (left), and Font Size (9px).

Gs Text

Link GS Screen to other Feature/Function screen

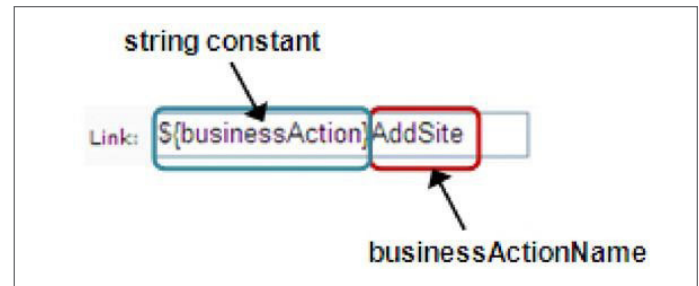
Link GS Screen to a feature or function within Connect+.

To link a widget to a Connect+ feature or function, enter a business action parameter in the **Link** field under the Common Properties section. Use the input format below.

`${businessAction}businessActionName;paramName=paramValue`

Business Action Parameters

- **`${businessAction}`**: a string constant. Enter this string in the **Link** field followed by the business action name of the feature or function.
- **`businessActionName`**: the string name of the feature or function as listed in the "businessActionDe-scriptor.xml" file (the Connect+ feature or function the GS will be linked to). For example, the business action name for configuring a site is `EditSite`.



Set a parameter name and a parameter value to features and functions that require a parameter. Type = (equal sign) in between parameter names and values and a semicolon (;) in between parameters, if more than one parameter is needed.

- **`paramName`**: the string name of the parameter being looked up. Refer to below table for list of parameters for a given feature or function.
- **`paramValue`**: the value of the parameter being referenced.

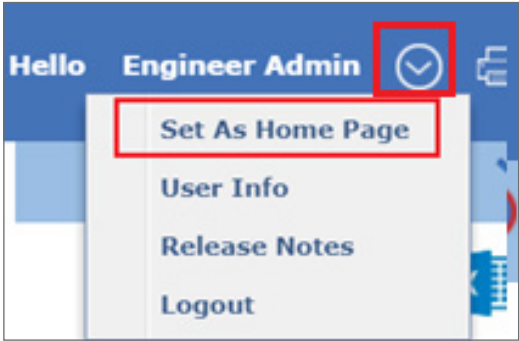
The required parameters should be entered in the Link field or an error message will display. Parameters can be entered in any order as long as the parameter names and values provided are valid.

| Feature/ Function Screen | Business Action Name | Required Link Parameters |
|-------------------------------|------------------------|--|
| Edit Site | EditSite | <code>\${businessAction}EditSite;referenceId=\${0.siteID};referenceTreeLevel=1;referenceName=\${0.siteName}</code> |
| Add Control System | AddControlSystem | <code>\${businessAction}AddControlSystem;referenceId=\${0.siteID};referenceTreeLevel=1;referenceName=\${0.siteName}</code> |
| Edit Control System | EditControlSystem | <code>\${businessAction}EditControlSystem;referenceId=\${0.controlsysteID};referenceTreeLevel=1;referenceName=\${0.csName}</code> |
| Obtain Controller Information | SyncControllerDirSite | <code>\${businessAction}SyncControllerDirSite;referenceId=\${0.siteID};referenceTreeLevel=1;referenceName=\${0.siteName}</code> |
| Obtain Controller Information | ControlSystemInventory | <code>\${businessAction}ControlSystemSynchronize;referenceId=\${0.controlsysteID};referenceTreeLevel=2;referenceName=\${0.csName}</code> |
| Obtain Controller Information | UnitSynchronize | <code>\${businessAction}UnitSynchronize;referenceId=\${0.unitID};referenceTreeLevel=3;referenceName=\${0.unitName}</code> |
| Refresh Units | ControlSystemInventory | <code>\${businessAction}ControlSystemInventory;referenceId=\${0.controlsysteID};referenceTreeLevel=2;referenceName=\${0.csName}</code> |
| Refresh Application | UnitInventory | <code>\${businessAction}UnitInventory;referenceId=\${0.unitID};referenceTreeLevel=3;referenceName=\${0.unitName}</code> |
| Retrieve Logs Site Level | GetPointLogsSiteLevel | <code>\${businessAction}GetPointLogsSiteLevel;referenceId=\${0.siteID};referenceTreeLevel=1;referenceName=\${0.siteName}</code> |
| Retrieve Logs CS Level | GetPointLogsCSLevel | <code>\${businessAction}GetPointLogsCSLevel;referenceId=\${0.controlsysteID};referenceTreeLevel=2;referenceName=\${0.csName}</code> |
| Retrieve Logs Unit Level | GetPointLogsUnitLevel | <code>\${businessAction}GetPointLogsUnitLevel;referenceId=\${0.unitID};referenceTreeLevel=3;referenceName=\${0.unitName}</code> |
| Terminal Mode | InitialTerminalMode | <code>\${businessAction}InitialTerminalMode;referenceId=\${0.unitID};referenceTreeLevel=3;referenceName=\${0.unitName}</code> |
| Forward Advisory | FORWARD_ADVISORY | <code>\${businessAction}FORWARD_ADVISORY;referenceId=\${0.siteID};referenceTreeLevel=1;referenceName=\${0.siteName}</code> |

| Feature/ Function Screen | Business Action Name | Required Link Parameters |
|-------------------------------|------------------------------------|---|
| View Historical Advisory | VIEW_ADVISORY | \${businessAction}VIEW_ADVISORY;referenceId=\${0.siteID};referenceTreeLevel=1;referenceName=\${0.siteName} |
| Advisory Receiver Commission | MonitorCommissioningRFDActivity | \${businessAction}MonitorCommissioningRFDActivity;referenceId=\${0.controlsSystemID};referenceTreeLevel=2;referenceName=\${0.csName} |
| Live Advisory View CS Level | GetLiveAdvisoriesCSLevelActivity | \${businessAction}GetLiveAdvisoriesCSLevelActivity;referenceId=\${0.controlsSystemID};referenceTreeLevel=2;referenceName=\${0.csName} |
| Live Advisory View Unit Level | GetLiveAdvisoriesUnitLevelActivity | \${businessAction}GetLiveAdvisoriesUnitLevelActivity;referenceId=\${0.unitID};referenceTreeLevel=3;referenceName=\${0.unitName} |
| Backup Site | BackupSiteActivity | \${businessAction}BackupSiteActivity;referenceId=\${0.siteID};referenceTreeLevel=1;referenceName=\${0.siteName} |
| Backup Unit | BackupUnitActivity | \${businessAction}BackupUnitActivity;referenceId=\${0.unitID};referenceTreeLevel=3;referenceName=\${0.unitName} |
| Backup Control System | BackupCtrlSystemActivity | \${businessAction}BackupCtrlSystemActivity;referenceId=\${0.controlsSystemID};referenceTreeLevel=2;referenceName=\${0.csName} |

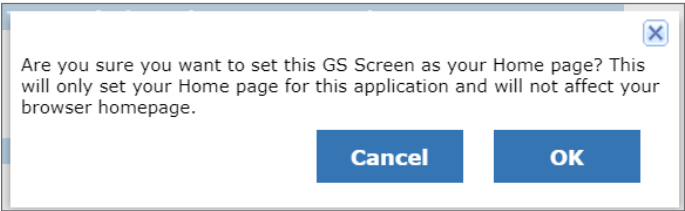
8.15.16 Set System Home Page

Locate at the **My Info** icon, click **Set As Home Page** to set a GS Screen as your home page and overwrite any previously set GS Screen system home page.



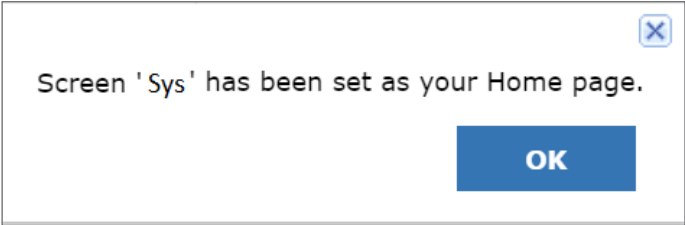
Home Page Option

A confirmation window will appears, click **OK** to set the GS Screen as your new system home page or **Cancel** the setting.



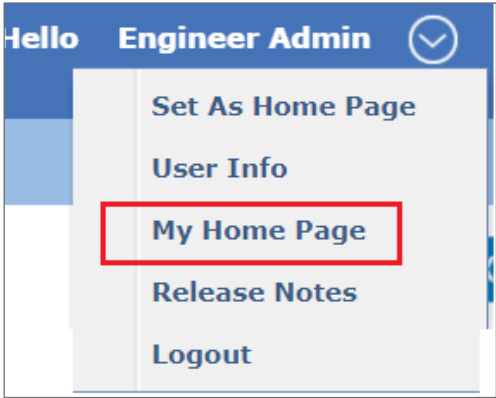
Confirmation Message

After clicking the **OK** button, another message will show to tell you the system home screen is set successfully.



OK Button

After system home page is set, user will see the system home screen when landing to the Connect+. There's a menu **My Home Page** listed under the **My Info** icon and user can select this menu to jump to system home screen from other page.



My Home Page Option

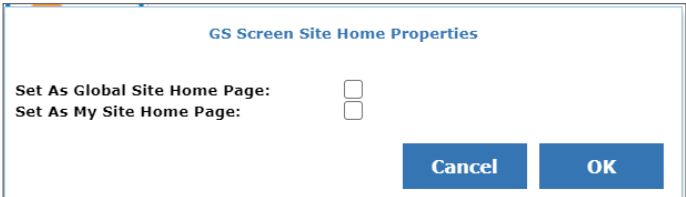
8.15.17 Set Site Home Page

Setting a **GS Screen** as the Site Home page makes the chosen GS Screen as the landing screen for a given site. To set the **Site Home** page, while on the edit mode of a GS Screen, click the site **Home** icon from tool bar menu.



Gs Screen Site Home Page Widget

You could see a pop-up window of **GS Screen Site Home Properties**.



Gs Screen Site Home Properties

Set As Global Site Home Page: Check this check-box will allow all the users see the home page.

Set As My Site Home Page: If check this check-box, only the user who set the property can see the home page.

You can only choose one check-box, then click **OK** to save the configuration. To view the home screen by clicking the site name from tree node.

8.16 What Else You Can Do with Graphical Screens

You can right-click on Point Value and Override a Point, and also Display Log Graph, Real-Time Graph and view advisories for the point. You can also override a point from graphical screens. Note that you can only use the right-click menu in the **Point Value** field.

Refrigeration Summary

| Unit | Suction Group | Suction | Suct SP | Suct Temp | Disch | Active Stages | Total Stages | % Cap | Status |
|---------------------------------------|---------------|---------|---------|-----------|-------|---------------|--------------|-------|--------|
| No application instances of this type | | | | | | | | | |

| Unit | Enhanced Suct Grp | Suction | Suct SP | Suct Temp | Disch | Active Stages | Total Stages | % Cap | Status |
|---------------------|-------------------|----------|----------|-----------|-------|---------------|--------------|---------|--------|
| RX-400 2: RAK LT/TC | RACK LT | 17.0 PSI | 15.0 PSI | NONE | NONE | 4 | 4 | 100.0 % | OK |
| RX-400 2: RAK LT/TC | RACK TC | 20.0 PSI | 15.0 PSI | NONE | NONE | 2 | 2 | 100.0 % | OK |
| RX-400 3: PROTO A/B | PROTOCOL A | 54.0 PSI | 50.0 PSI | NONE | NONE | 6 | 6 | 100.0 % | OK |
| RX-400 3: PROTO A/B | PROTOCOL B | 63.9 PSI | 54.0 PSI | NONE | NONE | 6 | 6 | 50.0 % | OK |

| Unit | Condenser | P Ctrl | P-Set |
|---------------------|--------------|-----------|-----------|
| RX-300 4: E2 Unit04 | CONDENSER | NONE PSI | 200.0 PSI |
| RX-400 2: RAK LT/TC | CONDENSER LT | 216.2 PSI | 210.0 PSI |
| RX-400 2: RAK LT/TC | CONDENSER TC | 172.4 PSI | 180.0 PSI |
| RX-400 3: PROTO A/B | CONDENSER A | ?? | ?? |
| RX-400 3: PROTO A/B | CONDENSER B | 150.0 PSI | 222.0 PSI |

| Unit | Circuit (CC) | Alarm | State | Temp | Setpt |
|---------------------------------------|--------------|-------|-------|------|-------|
| No application instances of this type | | | | | |

SUCT MON TEMP

Override

Display Log Graph

Graph Collection

Show on Real-time Graph

Point Properties

Connection Verification Report

Forward Advisories

View Advisories

Create Setpoint Broadcast

Configure Advisory Snooze

Configure CB Maintenance

Configure Log Purge

Edit Application Instance

| PM | VS % | State |
|----|------|------------|
| ?? | ?? | Fan(s) On |
| ?? | ?? | Fan(s) On |
| ?? | ?? | Fan(s) On |
| ?? | ?? | Fan(s) Off |

| Standard | Alarm | State | Temp | Setpt |
|----------|-------|---------------|---------|----------|
| TD | .. | REFRIGERATION | -9.3 °F | -12.0 °F |
| TD | .. | REFRIGERATION | -1.4 °F | 0.0 °F |
| TD | .. | REFRIGERATION | 0.0 °F | 0.0 °F |
| TD | .. | REFRIGERATION | -2.2 °F | 0.0 °F |
| TD | .. | REFRIGERATION | -1.7 °F | 0.0 °F |
| TD | .. | REFRIGERATION | 1.0 °F | 0.0 °F |
| TD | .. | REFRIGERATION | -0.5 °F | 0.0 °F |
| TD | .. | REFRIGERATION | -1.6 °F | -1.0 °F |
| TD | .. | REFRIGERATION | 0.1 °F | 0.0 °F |
| TD | .. | REFRIGERATION | 25.0 °F | 28.0 °F |
| TD | .. | REFRIGERATION | -7.5 °F | 0.0 °F |
| TD | .. | REFRIGERATION | 42.7 °F | 50.0 °F |

Back

Home

Building Summary

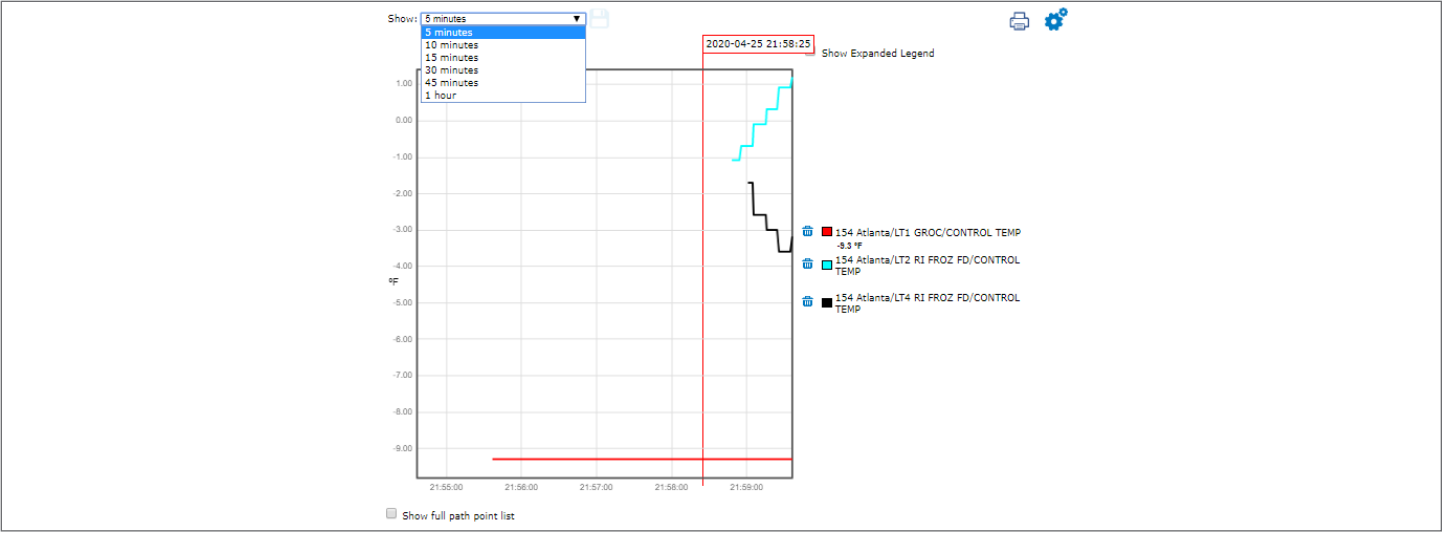
Other Summary

Refrigeration Summary

8.16.1 View Real Time Graph

While you can view point log graphs from the Advisory View, Advisory Email, Watch Points, and Graphical Screens, you can only view point real time graphs from graphical screens.

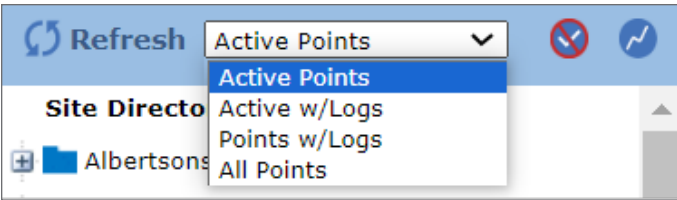
The Real Time Graph allows you to watch the point value change in real time for different time intervals from five (5) minutes up to one (1) hour. You can also add more points from the graphical screen to the real time graph by right clicking the point value. The point path will be displayed in the real time graph.



Real Time Graph

9. Points


You can view details about controller points, graph points, retrieve logs, and make changes. Click the **Active Points** drop-down menu located in the center of the navigation window for point viewing options.

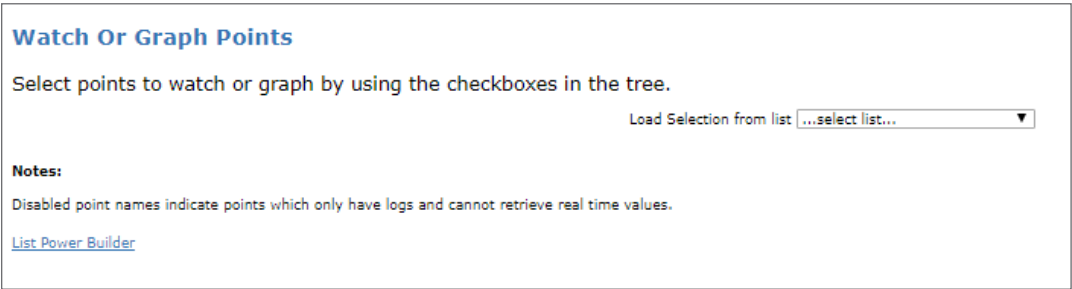


Points Categories

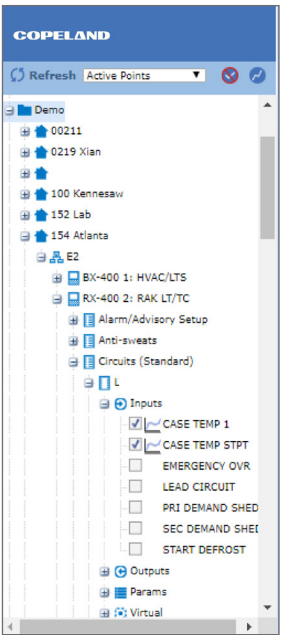
- **Active Points** is the default each time the user starts up the browser and will show all configured points in the controller.
- **Active w/ Logs** shows active points that have a controller log available.
- **Points w/ Logs** shows points that have a controller log available.
- **All Points** shows all possible points for an application instance, whether it is configured or not. An icon will appear next to the point if the point has a log.

9.1 Watch Points

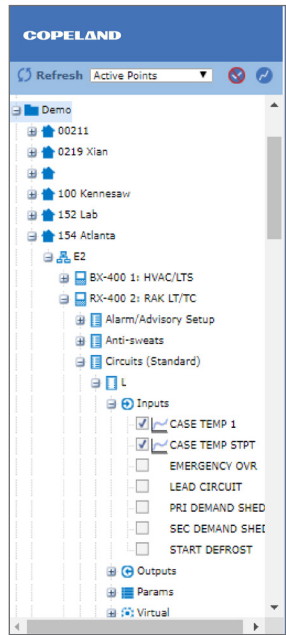
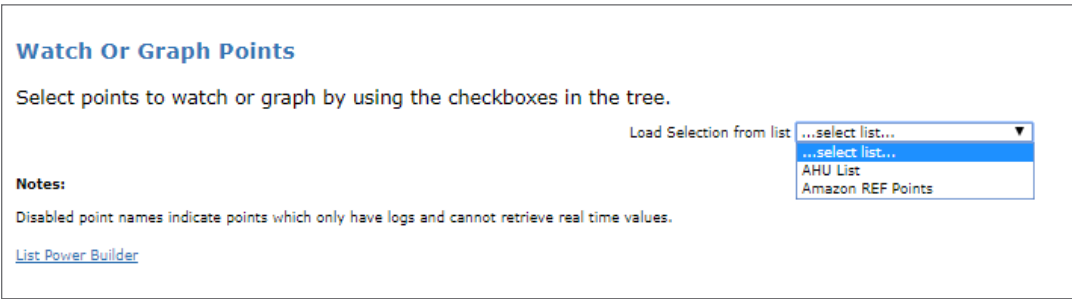
When you click the Watch Points icon  , you will be directed to Watch or the Graph Points page.



You can select points to watch or graph using the check boxes in the tree, or load points from a list. (refer to *Section 10 List Power Builder*)



Select Points to Watch From the Tree Load Points From a List



In the example below many points are contained in the review area. Click **Watch Points** at the bottom right corner.

☒ 75. BX2/Air Handlers (AHUs)/ NORTH DEH/Outputs/SPACE TEMP OUT
☒ 76. BX2/Air Handlers (AHUs)/ SALES/Outputs/SPACE TEMP OUT
☒ 77. BX2/Air Handlers (AHUs)/ STOCKROOM/Outputs/SPACE TEMP OUT
☒ 78. BX2/Air Handlers (AHUs)/ BREAKROOM/Outputs/SPACE TEMP OUT

Remove All

AHU List

Save as new list

Delete List

☐ +Public List

Watch Points

Load Selection from list

AHU List

[Click on Watch Points](#)

Wait several seconds for Connect+ to establish the real time communication to your controllers. You will see the value change from "?" to meaningful values. If you see the value shows "---", please check your device connection.

Circuits (Standard)

L

Inputs

☒ CASE TEMP 1
☒ CASE TEMP STPT
☐ EMERGENCY OVR
☐ LEAD CIRCUIT
☐ PRI DEMAND SHED
☐ SEC DEMAND SHED
☐ START DEFROST

Outputs

Params

Virtual

FROZ FD

Inputs

☒ CASE TEMP 1
☒ CASE TEMP STPT
☐ EMERGENCY OVR
☐ LEAD CIRCUIT
☐ PRI DEMAND SHED

Site Directories / Watch Or Graph Points

Watch Or Graph Points

Display Log Graph

Retrieve Logs + Graph

Retrieve Logs

Retrieve Logs + Export

Export

| Point | Sample |
|--|---------|
| <input checked="" type="checkbox"/> 1. HVAC/LTS"/Air Handlers (AHUs)/1-MAIN AHU/Inputs/COOL PROOF1 | Off |
| <input checked="" type="checkbox"/> 2. RAK LT/TC"/Circuits (Standard)/Inputs/CASE TEMP 1 | -9.34F |
| <input checked="" type="checkbox"/> 3. RAK LT/TC"/Circuits (Standard)/Inputs/CASE TEMP STPT | -12.09F |
| <input checked="" type="checkbox"/> 4. RAK LT/TC"/Circuits (Standard)/Inputs/CASE TEMP 1 | -1.34F |
| <input checked="" type="checkbox"/> 5. RAK LT/TC"/Circuits (Standard)/Inputs/CASE TEMP STPT | 0.09F |

Remove All

Save as new list

+Public List

Stop Watching

Load Selection from list

select list...

Notes:

Disabled point names indicate points which only have logs and cannot retrieve real time values.

[List Power Builder](#)

[Click on Watch Points](#)

In the Watch or Graph Points Page, besides the Watch Points' real value, you can also:

- Display Log Graph, Retrieve Logs and Export for multiple points selected.
- Right-click on each point to access Display Point Graph, Real Time Graph, and View Advisories.

Watch Or Graph Points

Display Log Graph

Retrieve Logs + Graph

Retrieve Logs

Retrieve Logs + Export

Export

NOTE: Only the first 15 points will be used on the graph.

| Point | |
|---|---|
| ✓ 1. HVAC/Air Handlers (AHUs)/IT STORAGE/Outputs/SPACE TEMP OUT | <div>SPACE TEMP OUT</div> <div>Override</div> <div>Show on Real-time Graph</div> <div>Point Properties</div> <div>Connection Verification Report</div> <div>Forward Advisories</div> <div>View Advisories</div> <div>Create Setpoint Broadcast</div> <div>Configure Advisory Snooze</div> <div>Configure CB Maintenance</div> <div>Configure Log Purge</div> <div>Edit Application Instance</div> |
| ✓ 2. HVAC/Air Handlers (AHUs)/RECEPTION AREA/Outputs/SPACE TEMP OUT | |
| ✓ 3. HVAC/Air Handlers (AHUs)/REFG LAB/Outputs/SPACE TEMP OUT | |
| ✓ 4. HVAC/Air Handlers (AHUs)/SIDNEY CONF RM/Outputs/SPACE TEMP OUT | |
| ✓ 5. PALO CX#1/Air Handlers (AHUs)/AHU1 MainSales/Outputs/SPACE TEMP OUT | |
| ✓ 6. PALO CX#1/Air Handlers (AHUs)/RTU1 Front End/Outputs/SPACE TEMP OUT | |
| ✓ 7. PALO CX#1/Air Handlers (AHUs)/RTU2 OfficeA/C/Outputs/SPACE TEMP OUT | |
| ✓ 8. Large/Air Handler_001/Outputs/SPACE TEMP OUT | |
| ✓ 9. : HVAC/LTS"/Air Handlers (AHUs)/1-MAIN AHU/Outputs/SPACE TEMP OUT | |
| ✓ 10. HVAC/LTS"/Air Handlers (AHUs)/GMI-SALES AREA/Outputs/SPACE TEMP OUT | |
| ✓ 11. HVAC/LTS"/Air Handlers (AHUs)/RTU-1 BAKERY/Outputs/SPACE TEMP OUT | |
| ✓ 12. HVAC/LTS"/Air Handlers (AHUs)/RTU-2A PRODUCE/Outputs/SPACE TEMP OUT | |
| ✓ 13. HVAC/LTS"/Air Handlers (AHUs)/RTU-2B PRODUCE/Outputs/SPACE TEMP OUT | |

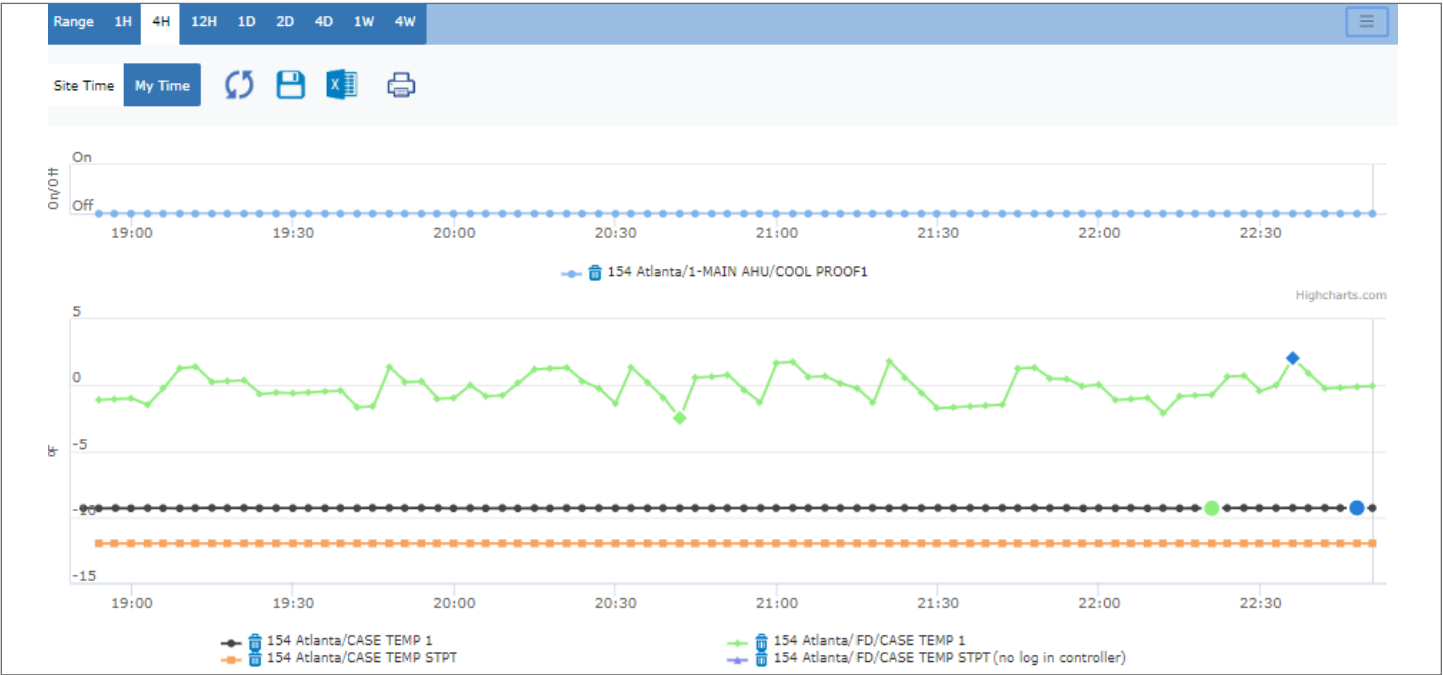
Other Points

9.1.1 Display Log Graph

We have introduced how to read log graph in the Advisory View session. You can also choose to **Display Log Graph** from Watch Points.

- If you want to see an alarming point’s log graph, right-click on the point name and choose **Display Log Graph**. The log graph you see is the same as the one you see from the Advisory View.
- If you want to see multiple points’ log graph, just click **Display Log Graph**, all selected points’ log graph would be shown for the same time period.

If the point log has not been retrieved, you need to retrieve logs first. or choose Retrieve Logs + Graph, it will retrieve the logs before showing the graph.



Display Log Graph

9.1.2 Retrieve Logs

If the points you selected do not have logs retrieved, consider retrieving logs first and then displaying the log graph. When you Retrieve Logs, Connect+ will display the Activity progress:

Retrieve Logs From List
In Progress 62%

| | |
|--------------------|------------------|
| Target : Directory | Multiple |
| Started | 4/25/20 10:53 PM |
| Duration | 2 seconds |
| StartMethod | On Demand |
| User | |

Hide Details

Calculating Execution Data...
Processing 5 points...
Done processing points.
Starting on Directory Demo

Cancel

Retrieve Logs

Upon completion, you can go to the **Header Menu > Activities > View My Activity History** to check the Retrieve Logs status.

My Activity History - Results

Occurrence Date

Past 7 Days

Show 25

Reset Filters Refresh Activity History

| Activity | Started | Duration | Target | Result | Exceptions Report |
|------------------------------------|-----------------|----------|----------|----------------------|-------------------|
| <div>re Logs From List</div> | | | | <div>All</div> | |
| <div>Retrieve Logs From List</div> | 4/25/20 8:25 PM | 00:00:03 | Multiple | <div>Completed</div> | |
| <div>Retrieve Logs From List</div> | 4/25/20 8:24 PM | 00:00:02 | Multiple | <div>Completed</div> | |

Retrieve Logs

9.1.3 Export

You may also want to export log data for these points. Click **Export**, fill the time range and click **Go**. Export will be in progress. Upon completion, an Excel file will be downloaded to your computer. If the points log has not been retrieved, you need to retrieve the logs first, or choose **Retrieve Logs + Export**.

Display Log Graph

Retrieve Logs + Graph

Retrieve Logs

Retrieve Logs + Export

Export

From 2020-04-24 00:00:00 To 2020-04-26 23:59:59

Time Perspective:

Site Time

File Type:

Comprehensive

Go

Export

9.2 Override Point

You can override input points and output points from Navigation Tree, Watch Point List or a graphical screen. When you right-click on point value, you will see Override in the right-click menu. To override, enable the **Override** check box.

Outputs

ACTIVE INPUT

ALG STATUS

NUM INPUTS ON

OUTPUT

Params

Override

ACTIVE INPUT

Override ☒

Type:

Fixed

Value:

0

Note:

Cancel

Ok

Fryer

Ice Machine

Watch Or Graph Points

Display Log Graph

Retrieve Logs + Graph

Retrieve Logs

Retrieve Logs + Export

Export

NOTE: Only the first 15 points will be used on the graph.

| Point |
|--|
| <div><input checked="" type="checkbox"/> 1. HVAC/LTS/Air Handlers (AHUs)/1-MAIN AHU/Outputs/SPACE TEMP OUT</div> |
| <div><input checked="" type="checkbox"/> 2. HVAC/LTS/Air Handlers (AHUs)/GMI-SALES AREA/Outputs</div> |
| <div><input checked="" type="checkbox"/> 3. HVAC/LTS/Air Handlers (AHUs)/RTU-1 BAKERY/Outputs/S</div> |
| <div><input checked="" type="checkbox"/> 4. HVAC/LTS/Air Handlers (AHUs)/RTU-2A PRODUCE/Outputs</div> |
| <div><input checked="" type="checkbox"/> 5. HVAC/LTS/Air Handlers (AHUs)/RTU-2B PRODUCE/Outputs</div> |
| <div><input checked="" type="checkbox"/> 6. HVAC/LTS/Air Handlers (AHUs)/RTU-3 KITCHEN/Outputs/s</div> |
| <div><input checked="" type="checkbox"/> 7. HVAC/LTS/Air Handlers (AHUs)/RTU-4 CONF RM/Outputs/</div> |
| <div><input checked="" type="checkbox"/> 8. HVAC/Air Handlers (AHUs)/RECEPTION AREA</div> |
| <div><input checked="" type="checkbox"/> 9. HVAC/Air Handlers (AHUs)/REFG LAB/Outputs</div> |
| <div><input checked="" type="checkbox"/> 10 HVAC/Air Handlers (AHUs)/SIDNEY CONF RM</div> |
| <div><input checked="" type="checkbox"/> 11 HVAC/Air Handlers (AHUs)/IT STORAGE/Outputs</div> |

Override

SPACE TEMP OUT

Override ☒

Type:

Timed

Time:

0:00:00

Value:

NONE

Degrees Fahrenheit

Note:

Cancel

Ok

Watch or Graph Points

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If you enter **Fixed** and a value, that point value would be overridden permanently until further changes are made.

Refrigeration Summary

| Unit | Suction Group | Suction | Suct SP | Suct Temp | Disch | Active Stages | Total Stages | % Cap | Status |
|---------------------------------------|---------------|---------|---------|-----------|-------|---------------|--------------|-------|--------|
| No application instances of this type | | | | | | | | | |

| Unit | Enhanced Suct Grp | Suction | Suct SP | Suct Temp | Disch | Active Stages | Total Stages | % Cap | Status |
|---------------------|-------------------|----------|----------|-----------|-----------|---------------|--------------|---------|--------|
| RX-400 2: RAK LT/TC | RACK LT | 17.0 PSI | 15.0 PSI | NONE °F | NONE PSI | 4 | 4 | 100.0 % | OK |
| RX-400 2: RAK LT/TC | RACK TC | 20.0 PSI | 15.0 PSI | NONE °F | NONE PSI | 2 | 2 | 100.0 % | OK |
| RX-400 3: PROTO A/B | PROTOCOL A | 54.0 PSI | 50.0 PSI | NONE °F | 150.0 PSI | 6 | 6 | 100.0 % | OK |
| RX-400 3: PROTO A/B | PROTOCOL B | 59.5 PSI | 54.0 PSI | NONE °F | NONE PSI | 3 | 6 | 50.0 % | OK |

| Unit | Condenser | NO |
|---------------------|--------------|----|
| RX-300 4: E2 Unit04 | CONDENSER | NO |
| RX-400 2: RAK LT/TC | CONDENSER LT | 20 |
| RX-400 2: RAK LT/TC | CONDENSER TC | 17 |
| RX-400 3: PROTO A/B | CONDENSER A | ?? |
| RX-400 3: PROTO A/B | CONDENSER B | 15 |

| Unit | Circuit (CC) | Alarm | State | Temp |
|---------------------------------------|--------------|-------|-------|------|
| No application instances of this type | | | | |

Override

FILTERED PRES

Override

☒

Type: Fixed

Value: 20.0

Pressure Per Square Inch

Note:

Cancel

Ok

| RPM | VS % | State |
|-----|------|------------|
| ?? | ?? | Fan(s) On |
| ?? | ?? | Fan(s) On |
| ?? | ?? | Fan(s) On |
| ?? | ?? | Fan(s) Off |
| ?? | ?? | Fan(s) Off |

| Standard) Alarm | State | Temp Setpt |
|-----------------|-------|--------------------------------|
| Z FD | .. | REFRIGERATION -9.3 °F -12.0 °F |
| Z FD | .. | REFRIGERATION 0.4 °F 0.0 °F |
| .. | .. | REFRIGERATION 1.7 °F 0.0 °F |
| .. | .. | REFRIGERATION 1.0 °F 0.0 °F |
| .. | .. | REFRIGERATION -1.5 °F 0.0 °F |
| .. | .. | REFRIGERATION -1.0 °F 0.0 °F |
| .. | .. | REFRIGERATION -0.2 °F 0.0 °F |

Fixed Override Point

If **Timed** is selected, you must enter a time in the field. A point value will be overridden for a time period as specified after you click **OK**. The point of Site Supervisor only supports the **Timed** override.

Refrigeration Summary

| Unit | Suction Group | Suction | Suct SP | Suct Temp | Disch | Active Stages | Total Stages | % Cap | Status |
|---------------------------------------|---------------|---------|---------|-----------|-------|---------------|--------------|-------|--------|
| No application instances of this type | | | | | | | | | |

| Unit | Enhanced Suct Grp | Suction | Suct SP | Suct Temp | Disch | Active Stages | Total Stages | % Cap | Status |
|---------------------|-------------------|----------|----------|-----------|-----------|---------------|--------------|---------|--------|
| RX-400 2: RAK LT/TC | RACK LT | 17.0 PSI | 15.0 PSI | NONE °F | NONE PSI | 4 | 4 | 100.0 % | OK |
| RX-400 2: RAK LT/TC | RACK TC | 20.0 PSI | 15.0 PSI | NONE °F | NONE PSI | 2 | 2 | 100.0 % | OK |
| RX-400 3: PROTO A/B | PROTOCOL A | 54.0 PSI | 50.0 PSI | NONE °F | 150.0 PSI | 6 | 6 | 100.0 % | OK |
| RX-400 3: PROTO A/B | PROTOCOL B | 59.5 PSI | 54.0 PSI | NONE °F | NONE PSI | 4 | 6 | 66.7 % | OK |

| Unit | Condenser | NO |
|---------------------|--------------|----|
| RX-300 4: E2 Unit04 | CONDENSER | NO |
| RX-400 2: RAK LT/TC | CONDENSER LT | 20 |
| RX-400 2: RAK LT/TC | CONDENSER TC | 18 |
| RX-400 3: PROTO A/B | CONDENSER A | ?? |
| RX-400 3: PROTO A/B | CONDENSER B | 15 |

| Unit | Circuit (CC) | Alarm | State | Temp |
|---------------------------------------|--------------|-------|-------|------|
| No application instances of this type | | | | |

Override

FILTERED PRES

Override

☒

Type: Timed

Time: 0:00:00

Value: 20.0

Pressure Per Square Inch

Note:

Cancel

Ok

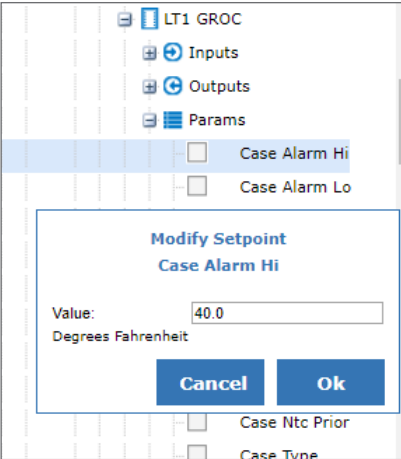
| RPM | VS % | State |
|-----|------|------------|
| ?? | ?? | Fan(s) On |
| ?? | ?? | Fan(s) On |
| ?? | ?? | Fan(s) On |
| ?? | ?? | Fan(s) Off |
| ?? | ?? | Fan(s) Off |

| Standard) Alarm | State | Temp Setpt |
|-----------------|-------|--------------------------------|
| Z FD | .. | REFRIGERATION -9.3 °F -12.0 °F |
| Z FD | .. | REFRIGERATION -1.4 °F 0.0 °F |
| .. | .. | REFRIGERATION -1.0 °F 0.0 °F |
| .. | .. | REFRIGERATION 3.3 °F 0.0 °F |
| .. | .. | REFRIGERATION -1.5 °F 0.0 °F |
| .. | .. | REFRIGERATION 1.3 °F 0.0 °F |
| .. | .. | REFRIGERATION 1.0 °F 0.0 °F |
| .. | .. | REFRIGERATION -2.4 °F -1.0 °F |
| .. | .. | REFRIGERATION -1.7 °F 0.0 °F |
| .. | .. | REFRIGERATION 27.2 °F 28.0 °F |
| .. | .. | REFRIGERATION -7.5 °F 0.0 °F |
| .. | .. | REFRIGERATION 43.5 °F 50.0 °F |

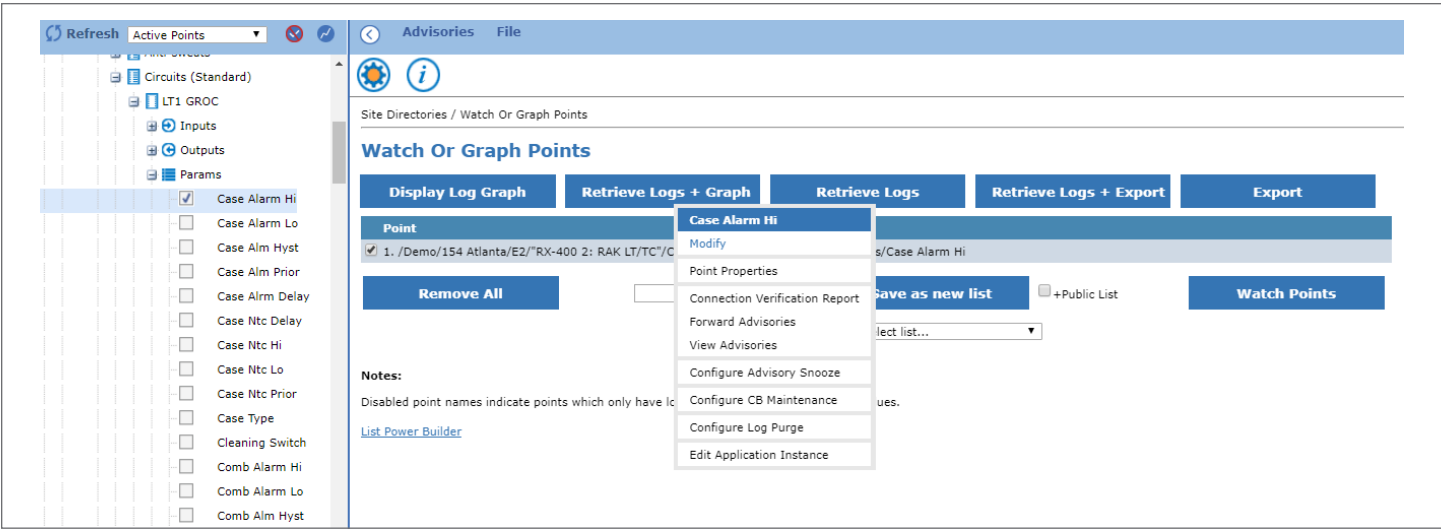
Timed Override Point

9.3 Modify Points

You can modify parameter points from Navigation Tree, Watch point or a Graphical Screen.



Modify Parameter Points

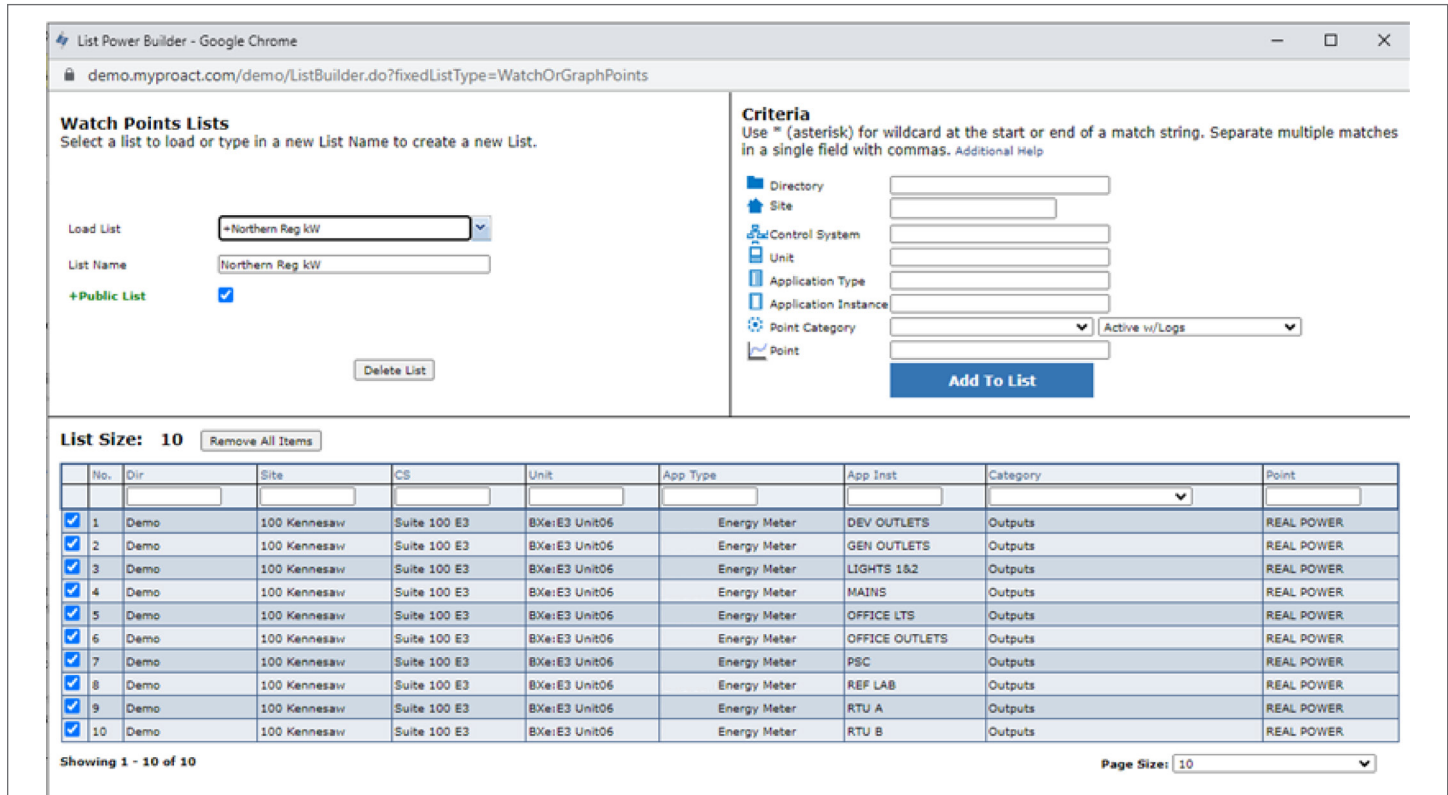


Case Alm Hi

10. List Power Builder

You can create, view, edit, and delete the list with the list Power Builder tool and quickly select it from watch point page to view the real time value. Power Builder creates large-scale lists by specifying a filter or matching criteria of items to add or remove from a list instead of using each item in the list individually; as a result, large lists can be built quickly.

The list power builder window can be launched from 3 different places in Connect+: The Watch Points screen, Schedule Manager page when scheduling the Retrieve Logs by List, and from the Setpoint Broadcast Scheduler configuration page.



| No. | Dir | Site | CS | Unit | App Type | App Inst | Category | Point |
|-----|------|--------------|--------------|----------------|--------------|----------------|----------|------------|
| 1 | Demo | 100 Kennesaw | Suite 100 E3 | BXei:E3 Unit06 | Energy Meter | DEV OUTLETS | Outputs | REAL POWER |
| 2 | Demo | 100 Kennesaw | Suite 100 E3 | BXei:E3 Unit06 | Energy Meter | GEN OUTLETS | Outputs | REAL POWER |
| 3 | Demo | 100 Kennesaw | Suite 100 E3 | BXei:E3 Unit06 | Energy Meter | LIGHTS 1&2 | Outputs | REAL POWER |
| 4 | Demo | 100 Kennesaw | Suite 100 E3 | BXei:E3 Unit06 | Energy Meter | MAINS | Outputs | REAL POWER |
| 5 | Demo | 100 Kennesaw | Suite 100 E3 | BXei:E3 Unit06 | Energy Meter | OFFICE LTS | Outputs | REAL POWER |
| 6 | Demo | 100 Kennesaw | Suite 100 E3 | BXei:E3 Unit06 | Energy Meter | OFFICE OUTLETS | Outputs | REAL POWER |
| 7 | Demo | 100 Kennesaw | Suite 100 E3 | BXei:E3 Unit06 | Energy Meter | PSC | Outputs | REAL POWER |
| 8 | Demo | 100 Kennesaw | Suite 100 E3 | BXei:E3 Unit06 | Energy Meter | REF LAB | Outputs | REAL POWER |
| 9 | Demo | 100 Kennesaw | Suite 100 E3 | BXei:E3 Unit06 | Energy Meter | RTU A | Outputs | REAL POWER |
| 10 | Demo | 100 Kennesaw | Suite 100 E3 | BXei:E3 Unit06 | Energy Meter | RTU B | Outputs | REAL POWER |

List Power Builder

The title in the top left will vary depending on the type of lists that the power builder is currently working with. This can be Watch Points Lists or Target Controller Groups Lists, depending on where the Power Builder was launched from. The Watch Points Lists are used both on the Watch Points page and for Retrieving Logs From List, it enables you to create and save several lists. It only can create one list from Target Controller Groups page, and then use it for setpoint broadcast.

Target Controller Group

Criteria

Use * (asterisk) for wildcard at the start or end of a match string. Separate multiple matches in a single field with commas. Additional Help

Directory

Site

Control System

Unit

Application Type

Application Instance

Add To List

List Name

AddUser

List Size: 2 Remove All Items

| No. | Dir | Site | CS | Unit | App Type | App Inst |
|-----|------|-------------|-------------|---------------------|--------------------|----------------|
| 1 | Demo | 154 Atlanta | E2 Test Chg | BX-400 1: HVAC/LTS | User Access Levels | ACCESS SERVICE |
| 2 | Demo | 154 Atlanta | E2 Test Chg | RX-400 2: RAK LT/TC | User Access Levels | ACCESS SERVICE |

Showing 1 - 2 of 2

Page Size: 10

Cancel Save

List Power Builder from Target Controller Group

When adding a new list, type in the list name in **List Name** field, and you will see a **Save as new list** button, click it to save the list.

Select one list and delete it by clicking the **Delete List** button.

Watch Points Lists

Select a list to load or type in a new List Name to create a new List.

Load List

...select...

List Name

Demo

+Public List

Save as new List

Save as New List

Watch Points Lists

Select a list to load or type in a new List Name to create a new List.

Load List

Test Ckts Points

List Name

Test Ckts Points

+Public List

Delete List

Save as New List

The **Load List** drop-down menu displays all the Lists being worked with. Choose the list you wish to work on. The related points will be shown in the below table. If you update an existing list, you will see an **Unsaved changes: List** has been modified message appears. Click the **Update List** button to save. You can also rename the existing list from **List Name** field, and then click the **Update List** button.

The **Public List** check box indicates whether or not the list is public. Public lists can be viewed by all users and private lists are only visible by the list owner (user who created the list.) Check or uncheck this box to toggle lists to private or public (applicable user privileges apply).

You can add the search criteria from the Criteria section (top right), if a Directory, Site, Control System, Unit, Application Type, Application Instance, Point, or any combination to add all elements that match those names into the list. If a name is added without wildcard symbols (*), the exact name must match.

Watch Points Lists

Select a list to load or type in a new List Name to create a new List.

Load List

Test Ckts Points

List Name

Test Ckts Points

+Public List

* Unsaved changes: List has been modified.

Update List Delete List

Update List

Criteria

Use * (asterisk) for wildcard at the start or end of a match string. Separate multiple matches in a single field with commas. [Additional Help](#)

| | |
|--|------------------------------------|
| Directory | <input type="text"/> |
| Site | <input type="text"/> |
| Control System | <input type="text"/> |
| Unit | <input type="text"/> |
| Application Type | <input type="text"/> |
| Application Instance | <input type="text"/> |
| Point Category | <input type="text"/> Active w/Logs |
| Point | <input type="text"/> |
| <input type="button" value="Add To List"/> | |

[Search Criteria](#)

To match a partial name, place an asterisk wildcard symbol at the beginning or end (or both) of the name match. For example, to add all points that are under Application Instances with a name beginning with GLOBAL, enter **GLOBAL*** in the **Application Instance** field and click **Add to List**. Multiple entries may be typed into one field by separating the multiple entries by commas. For example, if you wanted to add everything under sites, East, West and North, enter **East, West, North** into the **Site** field. This applies to all the field.

Watch Points Lists

Select a list to load or type in a new List Name to create a new List.

| | |
|--------------|--|
| Load List | <input type="text" value="...select list..."/> |
| List Name | <input type="text"/> |
| +Public List | <input type="checkbox"/> |

Criteria

Use * (asterisk) for wildcard at the start or end of a match string. Separate multiple matches in a single field with commas. [Additional Help](#)

| | |
|--|---|
| Directory | <input type="text"/> |
| Site | <input type="text" value="152 Lab, 154 Atlanta Test"/> |
| Control System | <input type="text"/> |
| Unit | <input type="text"/> |
| Application Type | <input type="text"/> |
| Application Instance | <input type="text"/> |
| Point Category | <input type="text"/> Active w/Logs |
| Point | <input type="text" value="ACTIVE SETPT, DEFROST, CASE TEMI"/> |
| <input type="button" value="Add To List"/> | |

List Size: 73

| No. | Dir | Site | CS | Unit | App Type | App Inst | Category | Point |
|-----|------|------------------|-------------|--------------------|---------------------|-----------------------------------|----------|--------------|
| 1 | Demo | 152 Lab | SS | SR:LabSS 152 | AHULarge | Air Handler_001 | Outputs | ACTIVE SETPT |
| 2 | Demo | 152 Lab | SS | SR:LabSS 152 | Mflex RCB | Mflex RCB/R_001 | Outputs | ACTIVE SETPT |
| 3 | Demo | 152 Lab | SS | SR:LabSS 152 | Mflex RCB | Mflex RCB/R_002 | Outputs | ACTIVE SETPT |
| 4 | Demo | 152 Lab | SS | SR:LabSS 152 | StdCircuit | CKT 1 FZR | Outputs | ACTIVE SETPT |
| 5 | Demo | 152 Lab | SS | SR:LabSS 152 | StdCircuit | CKT 1 FZR | Inputs | CASE TEMP 1 |
| 6 | Demo | 152 Lab | SS | SR:LabSS 152 | StdCircuit | CKT 1 FZR | Outputs | DEFROST |
| 7 | Demo | 152 Lab | SS | SR:LabSS 152 | StdCircuit | CKT 2 Circuit | Inputs | CASE TEMP 1 |
| 8 | Demo | 152 Lab | SS | SR:LabSS 152 | StdCircuit | CKT 2 Circuit | Outputs | DEFROST |
| 9 | Demo | 152 Lab | SS | SR:LabSS 152 | StdCircuit | CKT 3 Circuit Under CC200 control | Outputs | DEFROST |
| 10 | Demo | 154 Atlanta Test | E2 Test Chg | BX-400 1: HVAC/LTS | Air Handlers (AHUs) | 1-MAIN AHU | Outputs | ACTIVE SETPT |
| 11 | Demo | 154 Atlanta Test | E2 Test Chg | BX-400 1: HVAC/LTS | Air Handlers (AHUs) | AHU1 | Outputs | ACTIVE SETPT |
| 12 | Demo | 154 Atlanta Test | E2 Test Chg | BX-400 1: HVAC/LTS | Air Handlers (AHUs) | GMI-SALES AREA | Outputs | ACTIVE SETPT |
| 13 | Demo | 154 Atlanta Test | E2 Test Chg | BX-400 1: HVAC/LTS | Air Handlers (AHUs) | RTU-1 BAKERY | Outputs | ACTIVE SETPT |
| 14 | Demo | 154 Atlanta Test | E2 Test Chg | BX-400 1: HVAC/LTS | Air Handlers (AHUs) | RTU-2A PRODUCE | Outputs | ACTIVE SETPT |

[Search Multiple Entries](#)

A list of sites can be copied to the clipboard from an external text file (from Notepad for example, or Microsoft Word or Excel) and pasted into the criteria Site field. The site names should be one site name per line and/or comma delimited on a single line or multiple lines. The user can simply cut or copy the list of sites into the Site field. When the user clicks the Add To List button, the sites will be verified for matches simultaneously as the Add To List function is occurring, and any that don't match will be displayed at the top of the window for informational purposes so that the user can update their source list of sites if desired.

Copy sites from Excel

The following sites had no matches:
Test

Criteria
Use * (asterisk) for wildcard at the start or end of a match string. Separate multiple matches in a single field with commas. Additional Help

Directory
Site: 152 Lab, 154 Atlanta Test

Control System
Unit
Application Type
Application Instance
Point Category: Active w/Logs
Point: ACTIVE SETPT, DEFROST, CASE TEMP

Add To List

List Size: 84 Remove All Items

| No. | Dir | Site | CS | Unit | App Type | App Inst | Category | Point |
|-----|------|------------------|-------------|--------------------|---------------------|-----------------------------------|----------|--------------|
| 1 | Demo | 152 Lab | SS | SR:LabSS 152 | AHULarge | Air Handler_001 | Outputs | ACTIVE SETPT |
| 2 | Demo | 152 Lab | SS | SR:LabSS 152 | Mflex RCB | Mflex RCB/R_001 | Outputs | ACTIVE SETPT |
| 3 | Demo | 152 Lab | SS | SR:LabSS 152 | Mflex RCB | Mflex RCB/R_002 | Outputs | ACTIVE SETPT |
| 4 | Demo | 152 Lab | SS | SR:LabSS 152 | StdCircuit | CKT 1 FZR | Outputs | ACTIVE SETPT |
| 5 | Demo | 152 Lab | SS | SR:LabSS 152 | StdCircuit | CKT 1 FZR | Inputs | CASE TEMP 1 |
| 6 | Demo | 152 Lab | SS | SR:LabSS 152 | StdCircuit | CKT 1 FZR | Outputs | DEFROST |
| 7 | Demo | 152 Lab | SS | SR:LabSS 152 | StdCircuit | CKT 2 Circuit | Inputs | CASE TEMP 1 |
| 8 | Demo | 152 Lab | SS | SR:LabSS 152 | StdCircuit | CKT 2 Circuit | Outputs | DEFROST |
| 9 | Demo | 152 Lab | SS | SR:LabSS 152 | StdCircuit | CKT 3 Circuit Under CC200 control | Outputs | DEFROST |
| 10 | Demo | 154 Atlanta Test | E2 Test Chg | BX-400 1: HVAC/LTS | Air Handlers (AHUs) | 1-MAIN AHU | Outputs | ACTIVE SETPT |
| 11 | Demo | 154 Atlanta Test | E2 Test Chg | BX-400 1: HVAC/LTS | Air Handlers (AHUs) | AHU1 | Outputs | ACTIVE SETPT |
| 12 | Demo | 154 Atlanta Test | E2 Test Chg | BX-400 1: HVAC/LTS | Air Handlers (AHUs) | GMI-SALES AREA | Outputs | ACTIVE SETPT |
| 13 | Demo | 154 Atlanta Test | E2 Test Chg | BX-400 1: HVAC/LTS | Air Handlers (AHUs) | RTU-1 BAKERY | Outputs | ACTIVE SETPT |
| 14 | Demo | 154 Atlanta Test | E2 Test Chg | BX-400 1: HVAC/LTS | Air Handlers (AHUs) | RTU-2A PRODUCE | Outputs | ACTIVE SETPT |

Site Field

Click the **Remove All Items** button above the table to clear all points from the list.

You can filter on each column element from the filter field.

List Size: 84 Remove All Items Remove Filtered Items Clear Filter

| No. | Dir | Site | CS | Unit | App Type | App Inst | Category | Point |
|-----|------|---------|----|--------------|------------|-----------------------------------|----------|--------------|
| 1 | Demo | 152 Lab | SS | SR:LabSS 152 | AHULarge | Air Handler_001 | Outputs | ACTIVE SETPT |
| 2 | Demo | 152 Lab | SS | SR:LabSS 152 | Mflex RCB | Mflex RCB/R_001 | Outputs | ACTIVE SETPT |
| 3 | Demo | 152 Lab | SS | SR:LabSS 152 | Mflex RCB | Mflex RCB/R_002 | Outputs | ACTIVE SETPT |
| 4 | Demo | 152 Lab | SS | SR:LabSS 152 | StdCircuit | CKT 1 FZR | Outputs | ACTIVE SETPT |
| 5 | Demo | 152 Lab | SS | SR:LabSS 152 | StdCircuit | CKT 1 FZR | Inputs | CASE TEMP 1 |
| 6 | Demo | 152 Lab | SS | SR:LabSS 152 | StdCircuit | CKT 1 FZR | Outputs | DEFROST |
| 7 | Demo | 152 Lab | SS | SR:LabSS 152 | StdCircuit | CKT 2 Circuit | Inputs | CASE TEMP 1 |
| 8 | Demo | 152 Lab | SS | SR:LabSS 152 | StdCircuit | CKT 2 Circuit | Outputs | DEFROST |
| 9 | Demo | 152 Lab | SS | SR:LabSS 152 | StdCircuit | CKT 3 Circuit Under CC200 control | Outputs | DEFROST |

Showing 1 - 9 of 9 Filter Matches (84 Total) Page Size: 100

Filter Field

After filtering, you will see **Remove Filtered Items** and **Clear Filter** buttons are displayed. Click Remove Filtered Items to remove all filtered items from the list with one click. For example, when this button is clicked, all values shown with '152' in the site name would be removed from the list.

Click the **Clear Filter** button to clear all the filter fields. Uncheck the check boxes to the left of each element to remove single elements from the list.

The number of filtered elements, the total number of elements in the list, and the current view range are displayed at the bottom of the page. The size of the list (List Size) is displayed at the top of the list.

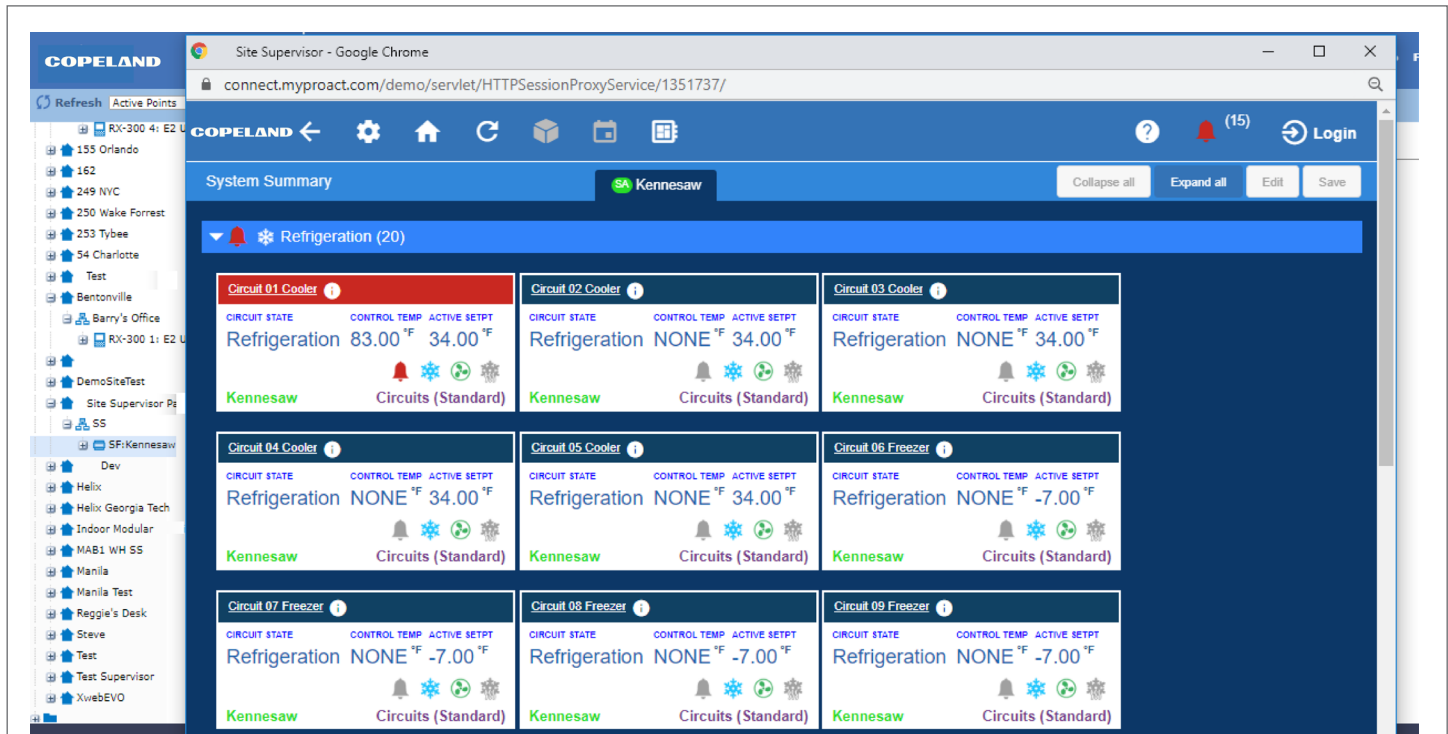
Use the Prev and Next buttons ◀ Prev Next ▶ at the bottom of the table to page through results. Choose the amount shown in the list with the Page Size drop-down.

11. Access Control

Monitoring your store from an Advisory Map, Graphical Screen, or Watch Point Lists may not always be sufficient. Connect+ allows you to connect to your controller remotely to access the controller to change settings or get more information.

11.1 Terminal Mode

You can remote login to Terminal Mode. You can access Terminal Mode from two places: Right-click menu at the controller level or from the Advisory View controller link.



Terminal Mode

11.2 Controller Logs & Stats

You can also view Controller Logs & Status from the right-click menu at the controller level. Below is a list of Controller Logs & Status Reports you can view directly from Connect+:

- Monitor Master
- Monitory Relay
- Check Status Usage
- Communication Statistics
- Schedule Statistics
- CPU Usage Report
- Description File Report
- Free Memory and Disk Space
- License Report
- System Logging Report
- Task Details Report
- Task Statistics
- Assertion Log
- Exception Log
- Maintenance Log
- Monitoring Connection Log
- Monitoring Log
- Monitoring Pending Log
- Override Log
- RMS Log
- Service Log
- Stpt Change Log
- System Update Log
- User Access Log

Controller Logs and Stats

Type of diagnostic information: Communication Statistics

Communication Statistics- 05/01/2020 - 20:55:44 - Rev: 3.09F04

RS-232 Direct Serial (COM1):
 Total sent: 0
 ...with a NAK response: 0
 ...with no response: 0
 Total received: 0
 ...with CRC (or checksum) error: 0
 ...with format errors: 0

RS-485 IONet (COM2):
 Total sent: 275514
 Total received: 275514
 Successful: 0 0.00%
 With Errors: 275514 100.00%
 Average Response Time (ms): 99.16
 No Response: 275514 100.00%
 Received NAK: 0 0.00%
 Checksum Error: 0 0.00%
 Format Error: 0 0.00%

| Name | Total Sent | Total Received | Received Successful | With Errors | No Response | Average Response Time (ms) |
|--------|------------|----------------|---------------------|-------------|-------------|----------------------------|
| 16AI-1 | 19677 | 19677 | 0 | 0.00% | 19677 | 100.00% 102.96 |
| 16AI-2 | 19677 | 19677 | 0 | 0.00% | 19677 | 100.00% 102.89 |
| 16AI-3 | 19677 | 19677 | 0 | 0.00% | 19677 | 100.00% 99.64 |
| 16AI-4 | 19677 | 19677 | 0 | 0.00% | 19677 | 100.00% 94.84 |
| 16AI-5 | 19677 | 19677 | 0 | 0.00% | 19677 | 100.00% 94.75 |
| 16AI-6 | 19677 | 19677 | 0 | 0.00% | 19677 | 100.00% 99.54 |
| 8RO-1 | 19680 | 19680 | 0 | 0.00% | 19680 | 100.00% 101.26 |
| 8RO-2 | 19680 | 19680 | 0 | 0.00% | 19680 | 100.00% 92.71 |
| 8RO-3 | 19680 | 19680 | 0 | 0.00% | 19680 | 100.00% 96.30 |

Save as file....

Controller Logs and Stats

11.3 Network Status

You can view Network Status from the right-click menu on both the Control System and Unit levels. Network Status provides real time controller/device connectivity. You can view if a controller or a device is online or offline from Network Status screen.

Network Status

Reset Filters Refresh

| Device Name | Device Type | Protocol | Address | Port | Revision | Status | Parent Unit |
|-------------------|-------------|----------|---------|---------|----------|---------|-------------|
| RAK LT/TC-Gateway | RX-400 | Ethernet | 2 | | 3.09F04 | Online | RAK LT/TC |
| E2 Unit04 | RX-300 | Ethernet | 4 | | 3.09F04 | Online | RAK LT/TC |
| HVAC/LTS | BX-400 | Ethernet | 1 | | 3.09F04 | Online | RAK LT/TC |
| LT-8DO#1 | 8DO | IONet | 1 | IONet-1 | 0.00 | Offline | RAK LT/TC |
| LT-8RO#6 | 8RO | IONet | 6 | IONet-1 | 0.00 | Offline | RAK LT/TC |
| LT-8RO#7 | 8RO | IONet | 7 | IONet-1 | 0.00 | Offline | RAK LT/TC |
| LT-8RO#8 | 8RO | IONet | 8 | IONet-1 | 0.00 | Offline | RAK LT/TC |
| LT-8RO#9 | 8RO | IONet | 9 | IONet-1 | 0.00 | Offline | RAK LT/TC |
| LT-16AI#4 | 16AI | IONet | 4 | IONet-1 | 0.00 | Offline | RAK LT/TC |
| LT-M16I#1 | 16AI | IONet | 1 | IONet-1 | 0.00 | Offline | RAK LT/TC |
| LT-M88I#2 | 16AI | IONet | 2 | IONet-1 | 0.00 | Offline | RAK LT/TC |
| LT-M88I#3 | 16AI | IONet | 3 | IONet-1 | 0.00 | Offline | RAK LT/TC |
| LT-M88I#5 | 16AI | IONet | 5 | IONet-1 | 0.00 | Offline | RAK LT/TC |
| LT-M88I#6 | 16AI | IONet | 6 | IONet-1 | 0.00 | Offline | RAK LT/TC |
| LT-M88O#1 | 8RO | IONet | 1 | IONet-1 | 0.00 | Offline | RAK LT/TC |
| LT-M88O#2 | 8RO | IONet | 2 | IONet-1 | 0.00 | Offline | RAK LT/TC |
| LT-M88O#3 | 8RO | IONet | 3 | IONet-1 | 0.00 | Offline | RAK LT/TC |
| LT-M88O#4 | 8RO | IONet | 4 | IONet-1 | 0.00 | Offline | RAK LT/TC |



Network Status

12. Controller Activity

We have covered Point Level Activities such as Override/Modify, Display Log Graph, Real Time Graph in Advisory, Graphical Screen & Watch Point Session. This session will cover Controller Activities from the Navigation Tree right-click menu.

12.1 Refresh Controller & Application

Obtain Controller Information

The Obtain Controller Information activity connects to a given Control System, refreshes the Unit list, refreshes the Application List for each Unit, and refreshes the points for any Application Instances that have "out of date" points, which means the point list will be retrieved for any applications that have never had a point list retrieved, and also for any applications that have changed since the last time the point list information was checked.

Obtain Controller Information will need to be run (or equivalent operation) for Connect+ to display the current information in the controller and synchronize the updates from the controller configuration and the GS Screen. Note that if the configuration of the controller changes while a GS Screen is being viewed, the system will not pick up configuration changes between the time the application data inventory is being received.

Refresh Unit

Refresh units is an activity that may be performed at the control system level. When a Refresh Units is performed, information is pulled from the controller and is posted to Connect+.

Right-click on the desired Control System from the main Navigation Tree to bring up the pop-up menu and select **Refresh Units**. Once this activity has been triggered, the Activity Status page will be displayed.

Refresh Application

Right-click on the desired unit from the main Navigation Tree to bring up the pop-up menu and select **Refresh Applications**. Once this activity has been triggered, the Activity Status page will be displayed.

When the activity has completed successfully, the changes, if any, will be evident automatically on the Navigation Tree under the selected unit or click the **Refresh** button in the navigation frame.

Refresh Point List

Refresh Point List is an activity that may be performed only at the Application Type and Application Instance levels on the Navigation Tree. When a **Refresh Point List** is performed, information is pulled from the controller and is posted to the database.

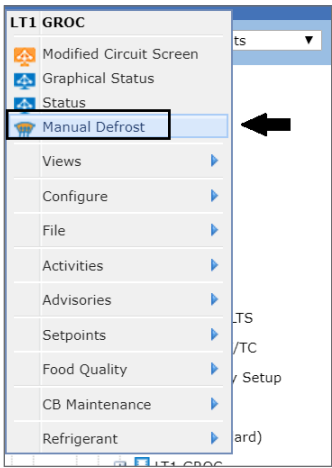
Right-click the desired application type or instance from the main navigation tree to bring up the pop-up menu and select **Refresh Point List**. Once this activity has been triggered, the Activity Status page will be displayed.

When the activity has completed successfully, the changes, if any, will be evident automatically on the Navigation Tree under the selected application or click the **Refresh** button in the navigation frame.

12.2 Manual Defrost

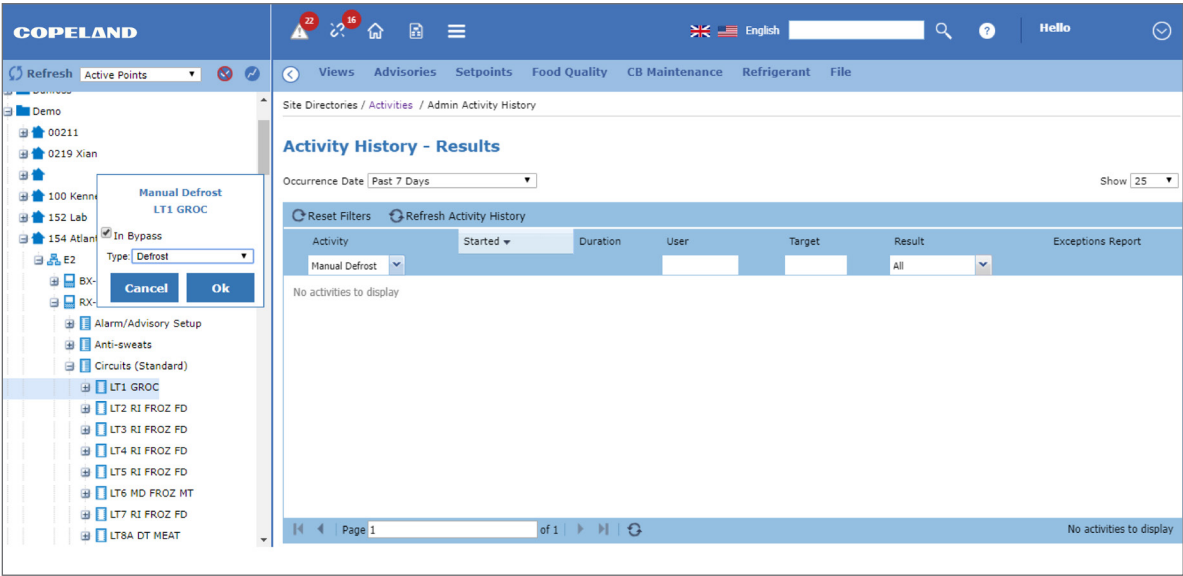
Manual Defrost allows users to start a defrost for a freezer or refrigerated case that is outside its normal scheduled routine. Manual Defrost is available only for supported controllers (E2 and Site Supervisor) and applications (Standard Circuits, Case Control Circuits, XM Circuits and MultiFlex CUB).

To start a manual defrost, right-click the application instance (circuit) where the freezer or refrigerated case to be defrosted is associated, and click **Manual Defrost**.



Manual Defrost

The **Manual Defrost** box will appear with the name of the application instance displayed.



Manual Defrost with Application Name

Once set, the manual defrost command is sent to the controller. Details of the Manual Defrost activity (whether Completed or Failed) will be recorded in the Activity History page.

Activity History - Results

Occurrence Date

Past 7 Days

Show 25

Reset Filters

Refresh Activity History

| Activity | Started | Duration | User | Target | Result | Exceptions Report |
|-------------------------------------|-----------------|----------|------|--------------------------|----------------------|-------------------|
| <div>Manual Defrost</div> | | | | | <div>All</div> | |
| <div>Manual Defrost</div> | 5/3/20 10:10 AM | 00:00:01 | Fan | LT1 GROC | <div>Completed</div> | |
| <div>Get Manual Defrost Types</div> | 5/3/20 10:07 AM | 00:00:00 | Fan | LT1 GROC | <div>Completed</div> | |

Activity History Results

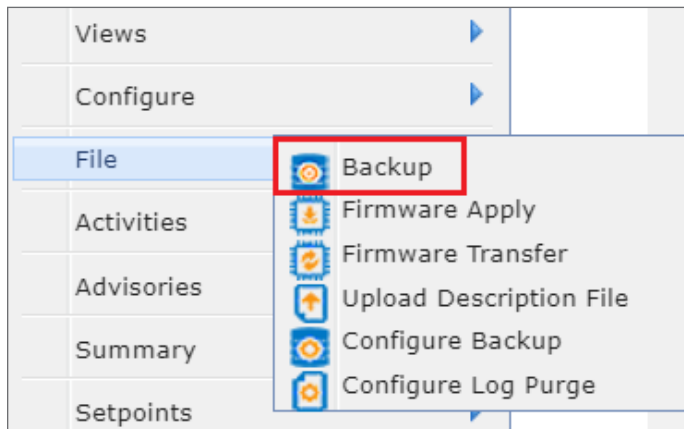
When **Bypass** is selected, a drop-down list appears and contains different types of Manual Defrost to choose from:

- a. **Defrost** - Puts the unit in its normal defrost routine.
- b. **Emergency Defrost** - Begins defrosting immediately. This event continues until the bypass is removed.
- c. **Start Cleaning** - Starts the clean or wash mode. Refrigeration cycle ends without any defrost action. The normal time programmed for cleaning mode also applies.
- d. **Refrigeration Override** - Appears only if the Application Instance is a MultiFlex CUB application.

A message displays if the Application Instance on which Manual Defrost is being run does not have data in the database. In this case, run a Refresh Point List first and configure the manual defrost again.

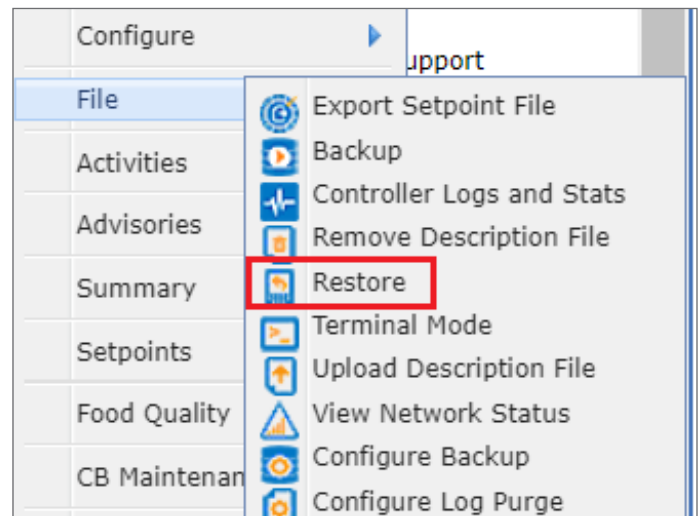
12.3 Backup & Restore Controllers

Backup can save setpoint information from a controller to the Connect+ server and the activity can be completed at a directory, site, control system, or unit level.



Backup Controllers

After backup, **Restore** can pull the backed-up setpoints from the database and restores the data back into the controller and is then started from the unit level.



Restore Controllers

You can configure a backup daily schedule to back up the setpoint file, and if your controller encounters any issues, you can restore the backed-up setpoints back to the controller.

Additionally, some stores may have similar distribution and management. In this case you can configure and back up setpoints on one controller and restore to another.

12.3.1 Backup

You can right-click the menu and select **File > Backup** on directory, site, control system, or unit level to execute activities.

When you execute the backup activity on the directory or site level, the Activity Startup page will display, and you can configure the activity to **Run Now** or **Run On Schedule**. A unit is needed for backup activity.

After a backup has been completed successfully, you can view backup records on unit properties that can be accessed from the right-click menu **Configure > Unit Properties** of the unit level. The total items displayed in the unit property is based on the configuration in **Configure Backup**.

Details

Device TypeE2

Model and SeriesBX-400

Revision4.10B23

Number of Backups to Keep4

Backup List

| Keep Forever | Backup Time/Date | Backup Info | Comments |
|--------------|------------------------------|-------------------|----------|
| No | Mon May 11 22:54:44 EDT 2020 | E2:BX-400:4.10B23 | |

Backup on Directory

Configure Backup

Connect+ will reserve the latest four backup records by default. You can configure how many records you want to reserve from the right-click menu **File > Configure Backup**.

You can use the default value or choose **Enter a value, 1-100, specifically for this item** and specify a backup kept number.

Configure Backup

ActivityBackup Unit
ItemUnit - BX-400 1: HVAC

Number of Backups to Keep
Use default value of 4 which is the global default value. - OR - Enter a value, 1-100, specifically for this item: Unit - BX-400 1: HVAC

| Keep Forever | Backup Time/Date | Backup Info | Comments |
|--------------------------|------------------------------|-------------------|----------|
| <input type="checkbox"/> | Mon May 11 22:54:44 EDT 2020 | E2:BX-400:4.10B23 | |

Save

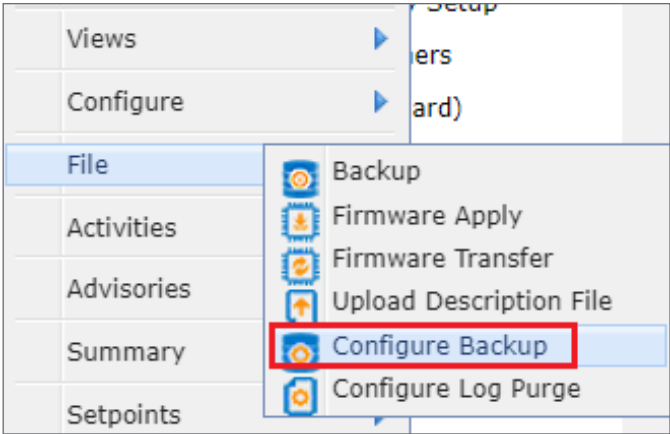
Cancel

Number of Backups to Keep

Kept backup items will be listed in the table, which you can check for the items that you wish to keep forever by clicking the **Keep Forever** check box. Additional **comments** can be added for each backup record.

Export Setpoint File:

You can also view and export backup records in the Export Setpoint File page. Select **File > Export Setpoint File** from the right-click menu of unit level.



Configure Backup

Setpoint File Export

| Keep Forever | Backup Time/Date | Backup Info | Comments | Export |
|--------------|------------------------------|----------------------|----------|-------------------|
| No | Mon May 18 14:59:13 CST 2020 | Site Supv:SR:2.13F01 | | <div>Export</div> |
| No | Wed Apr 15 16:11:23 CST 2020 | Site Supv:SR:2.13B20 | | <div>Export</div> |

Setpoint File Export

Click the **Export** button for each backup record to download. Each protocol will have a different setpoint file extension. Setpoint file for E2 is .e2b. Site Supervisor and E3 is .adf and XWEB is .backup.xweb.

12.3.2 Restore

To restore a unit, click right-click the menu **File > Restore** on the unit level and choose the configuration of the Restore activity:

Activity Startup

Details

Type: Restore

Configuration

Site Directories

A

A

A

A

D

Demo

00211

0219

100

Suite 100

BX-400 1: HVAC

BX-300 3: SUITE 170

TechSupport

152

154

155

162

249

250

253

54

A

B

Restore from a backup Image from the current unit

Select a backup file and restore it to this unit.
The oldest backup file is at the bottom of the list.

| Selection | Keep Forever | Backup Time/Date | Backup Info | Comme... |
|-----------------------|--------------|-------------------|--------------------|----------|
| <input type="radio"/> | No | Mon May 11 22:... | E2:BX-400:4.10B... | |

- OR -

Restore from another Unit's backup Image

This will restore the backup file from another unit to the current unit.

Select another unit to restore from

- OR -

Restore from a file

Select an existing setpoint file to import from the drop down list or click Browse button to upload a new one.

Select File To Upload: Select Setpoint File

Browse...

No file selected.

Current unit information

Controller Type: E2

Model Type and Series: BX-400

Version: 4.10B23

Activity Startup

- **Restore from a backup Image from the current unit** - Restores the current unit using the backup file chosen from the list of backed-up setpoints. Click the radio button of the backup that you wish to restore to the unit and click **Go** to Restore.
- **Restore from another Unit's backup Image** - Restores the backup file from another controller to the current unit. To restore, click the **Select another unit to restore from** button. A **Select Another Unit** pop-up window opens and displays the navigation tree. Choose the unit from where the current unit will restore.. Expand the navigation tree down to the unit level, select the radio button of the unit, and then click **Select**. After configuring, backup records for the original unit will be displayed and you can choose a desired setpoint file to restore.

Select Another Unit

Root

A

A

A

A

D

Demo

00211

0219

100

152

154

E2

RX-400 2: RAK LT/TC

RX-400 3: PROTO A/B

RX-300 4: E2 Unit04

155

162

249

Select

Cancel

Selecting Another Unit

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- OR -

Restore from another Unit's backup Image

This will restore the backup file from another unit to the current unit.

Select another unit to restore from

Demo > 154 Atlanta > E2 > "RX-400 2: RAK LT > TC"

| Selection | Keep Forever | Backup Time/Date | Backup Info | Comme... |
|-----------------------|--------------|-------------------|--------------------|----------|
| <input type="radio"/> | No | Wed Dec 18 10:... | E2:RX-400:3.05F... | |
| <input type="radio"/> | No | Tue Dec 17 17:... | E2:RX-400:3.05F... | |
| <input type="radio"/> | No | Wed Jun 26 11:... | E2:RX-400:3.05F... | |
| <input type="radio"/> | No | Mon Jun 03 10:... | E2:RX-400:3.05F... | |

Selecting Another Unit to Restore From

- **Restore from a file** - Restores the current unit using a setpoint file data (.E2b/.SSBackup/.backup.xweb). Click the radio button in this panel and then select the setpoint file to load from the **Select File To Upload** drop-down list.

If you want to restore from a local setpoint file, click the **Browse** button, locate the setpoint file on your computer, and click **Open**. Note that only setpoint files with matched protocol types can be uploaded. For example, if you want to restore setpoint for Site Supervisor and E3, you should upload SSBackup file; otherwise, an error message displays.

Warning

Invalid file type is selected. Only .SSBackup(Site Supv) extension are allowed.

OK

Warning

If Connect+ finds a duplicate file name in the database, a message window will display and ask if you want to overwrite the old file. Click **Overwrite** to import the setpoint file and overwrite the old file or **Cancel** to cancel file import. After configuring Restore, click **Go**.

An activity status page opens with a progress bar that shows the status of the Restore activity and the percentage of completion. After restoring is completed, the controller will be restarted to apply the backup data.

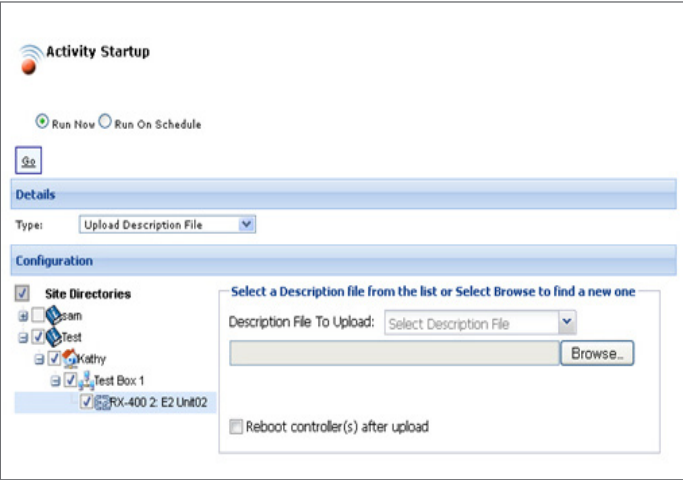
12.4 Controller Description Files

12.4.1 Upload Description Files

A description file is a template file used to add an application type or new device into the controller. Description files can be uploaded from the directory, site, control system, and unit levels from the navigation tree **File > Upload Description Files** or accessed from the **Admin Tools > Schedule Manager**.

If you want to run the description file one-time only, choose **Run Now** and the **Activity Startup** page will open where you can click the **Browse** button to locate the description file you wish to upload to the controller. If the description file is to be uploaded at a later date, select **Run On Schedule** and configure it from the **Schedule Manager** page. Note that this Activity can be scheduled, but not recurring.

Running the Upload Description File activity now from the **Activity Startup** page:



Upload Description File

Connect+ supports three kinds of description files for different controller type. You can upload .dsc file for E2, .adf file for Site Supervisor and E3 and .zip file for XWEB.

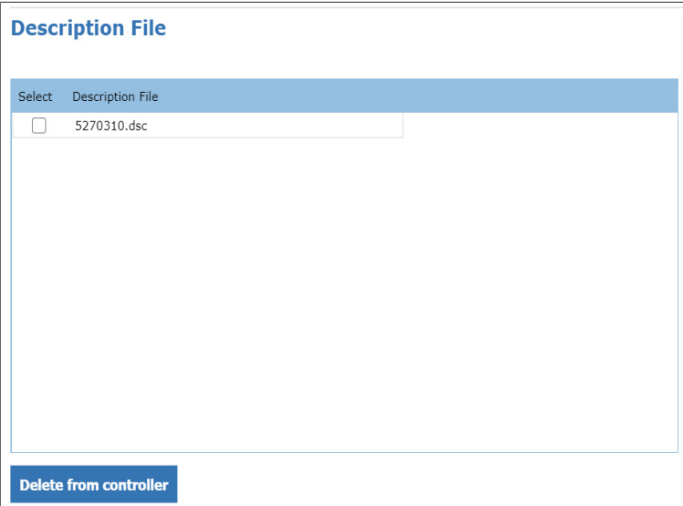
Click the **Browse** button to locate the description file. When **Browse** is clicked, you can select a single description file to upload from a **File Open** popup and click **Open** to upload the selected file to the Connect+ server. If the file name with incorrect extension is uploaded, a pop-up error window will be displayed indicating that there was an invalid file type selected and that only file types of .dsc, .adf and .zip are allowed. Once the file is selected, the file will be uploaded to the Connect+ server and you will be redirected to the **Schedule Manager** page previously viewed and the file will be added and selected to the list of available files in the **Description File To Upload** drop-down list.

If the file to be sent to controller already exists in the database, it will appear in the drop-down list. Select the file that will be sent to the controller from the **Description File To Upload** list. The selected description file should match the controller type or the activity will fail.

The description file will be applied after the controller is rebooted. You can Enable the **Reboot controller(s) after upload** check box to automatically restart the selected controllers after the upload and allow them to recognize the description file that was uploaded. Afterward, you can add the application or device for the uploaded description file.

12.4.2 Remove Description File

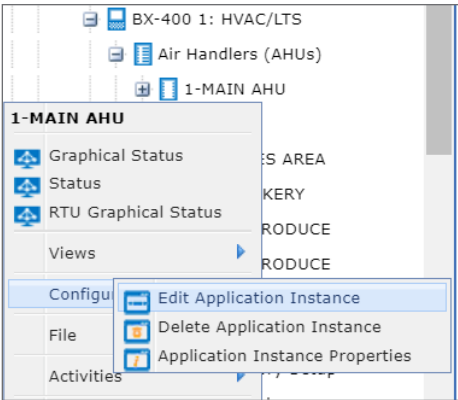
You can remove description file from the unit level. Right-click on unit, select **Files > Remove Description File**. The uploaded description file will be listed in the table. You can choose the file that you wish to remove by clicking the check box in front of the file name, and click the **Delete from controller** button. The description file will be removed from the controller.



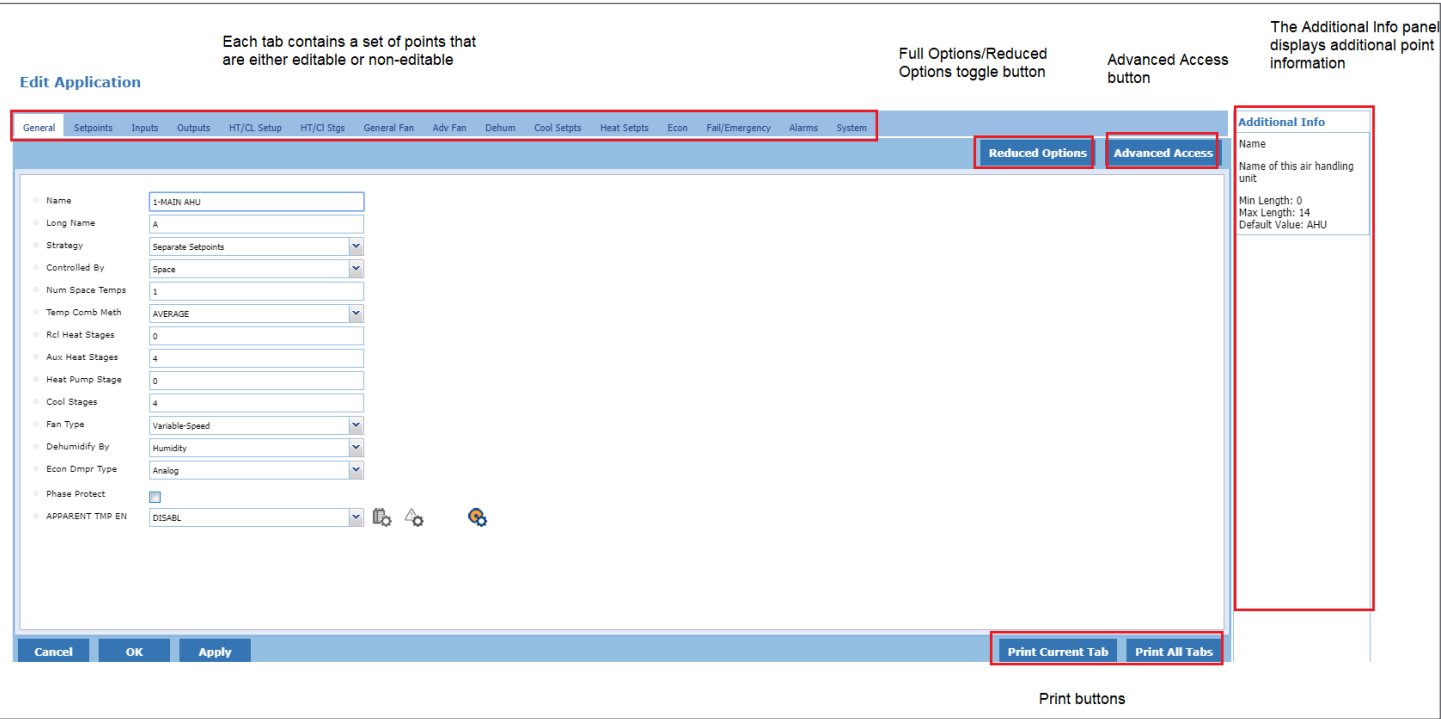
Remove Description File.

12.5 Edit Application

To make changes to an application instance, choose Edit Application page from navigation tree. Right-click the desired application instance from the navigation tree and select **Edit Application Instance**.



Edit Application Instance Menu



Edit Application Page

The **Edit Application** page allows you to perform online remote editing of applications and shows the editable and non-editable point values (or protocol component) of an application instance, which are divided into groups set by the controller. Each application instance is divided into groups of points. Each group is a tab that contains point names and values.

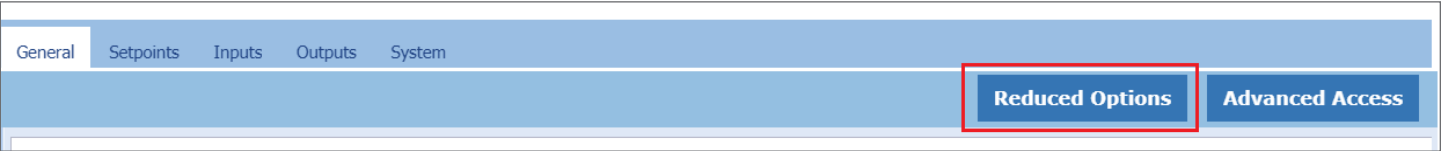
| | |
|-----------|---------------|
| Name | ANALOG SENS01 |
| Long Name | |

- The left column shows the names assigned to points (pre-configured in the controller). Hover the cursor over the names to display its description in the Additional Info panel.
- The right column contains fields where you can enter your changes to point values (can be either editable or non-editable depending on the controller's setup). Values can be of the following types: **text** (enter the value in the field provided), **drop-down** (expand and select from the list), or **check box** (click to enable/disable the indicated property). Use the arrow keys on your keyboard to move between values within a tab.

If you change the point name, there will be a **Lightning bolt** icon ⚡ to the left of the point names to indicate the point value has been changed.

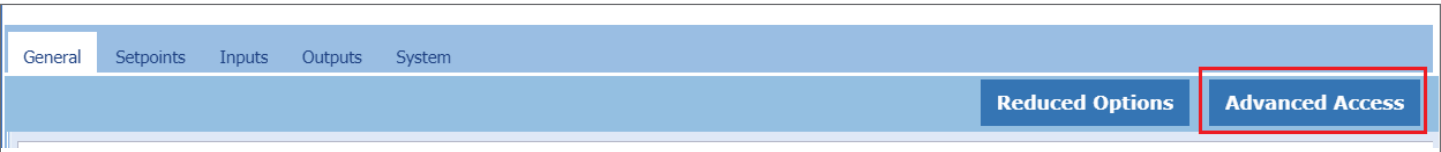
If a change was not saved to the controller after clicking **OK**, the page is enabled, and a message appears on top of the page along with a link to Activity Details. The page will then wait for more input.

• **Full Options/Reduced Options**



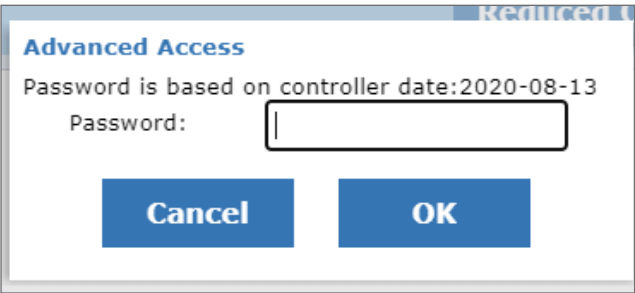
Full Options/Reduced Options toggle button allows you to select the display mode for points. (When Full Options is displayed, the Reduced Options mode is in use, and vice versa.). Full Options allows you to view more points than in the Reduced Options. By default, the page is set to Full Options; click the toggle button to shift modes.

• **Advanced Access and Normal Access**



Click **Advanced Access** and **Normal Access** toggle button to display Level 5 properties in the page. A pop-up window will appear on the page and ask you to enter a valid one-day password. Click **OK** after entering the password. If the password is correct, the user will be able to view additional fields that were not available previously. If the password that was entered is invalid, an error pop-up message will display, and the screen remains unchanged.

• **Print Current Tab/Print All Tabs**



• **Print Current Tab/Print All Tabs:** The print buttons beneath

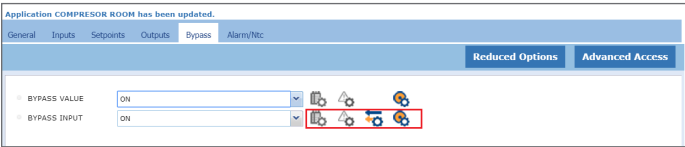


the window give you the ability to print point information. If a print button is clicked, all point information displayed will show in a new window. Click **Print Current Tab** to print the information that is related to the tab you are currently viewing or click **Print All Tabs** to print all the available point information in all tabs.

| Value 1-MAIN%20AHU | |
|--------------------|--------------------------------------|
| General | |
| Property | Value |
| Name | 1-MAIN AHU |
| Long Name | A MAIN AHU UNIT |
| Strategy | Separate Setpoints |
| Controlled By | Space |
| Num Space Temps | 1 |
| Temp Comb Meth | AVERAGE |
| Rcl Heat Stages | 0 |
| Aux Heat Stages | 4 |
| Heat Pump Stage | 0 |
| Cool Stages | 4 |
| Fan Type | Variable-Speed |
| Dehumidify By | Humidity |
| Econ Dmpr Type | Analog |
| Phase Protect | false |
| APPARENT TMP EN | DISABL |
| Setpoints | |
| Property | Value |
| MIN SPLY TMP CL | 50.0 |
| Inputs | |
| Property | Value |
| OCCUPANCY | HVAC/LTS:MAIN OCCUPANCY:OUTPUT |
| SPACE TEMP 1 | NONE |
| SPACE HUMID | HVAC/LTS:1.04 N. HUMID:OUTPUT |
| RETURN TEMP | NONE |
| SUPPLY TEMP | NONE |
| MIXED AIR TEMP | NONE |
| ENTHALPY SW | NA |
| OUTDOOR TEMP | HVAC/LTS:GLOBAL DATA:OAT OUT |
| OUTDOOR HUMID | HVAC/LTS:GLOBAL DATA:OUTDOOR HUM OUT |
| OUTDOOR DEWPT | NONE |
| BYPASS TO OCC | NA |
| BYPASS TO UNOCC | NA |
| SETPOINT SHIFT | NONE |
| PHASE LOSS | HVAC/LTS:GLOBAL DATA:HVAC PHASE |


Sample Print

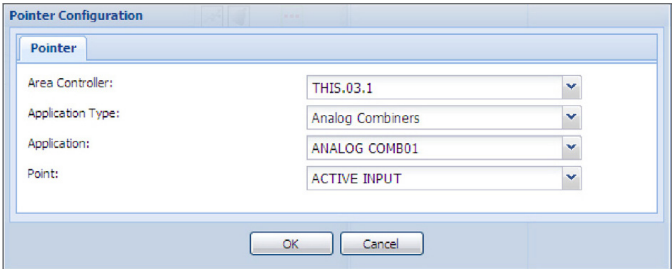
You can configure Pointer, Log, Advisory or Bypass for E2 point in Edit Application page by clicking the icon behind the point.



Bypass Option

Pointer Configuration

If a point is capable of becoming a pointer, the **Pointer Configuration** icon  appears to the right of that point value; click this icon to open the **Pointer Configuration** pop-up window:



Pointer Configuration

The **Pointer Configuration** window allows you to define a point within the same control system to which the current point being configured will get or send its property.

To set up a pointer, select a value from each of the drop-downs:

- **Area Controller** - the area controller to which the point will associate (should be the same control system of the current point).
- **Application Type** - the name of the application type.
- **Application** - the specific application to which the point will connect.
- **Point** - name of the input or output you want the current point to send or get its value from. Connect an input point to an output point of the same data type, and vice versa (for example, digital outputs to digital inputs, analog inputs to analog outputs). An input point cannot be associated to another input point, likewise, an output point cannot be hooked to another output point.

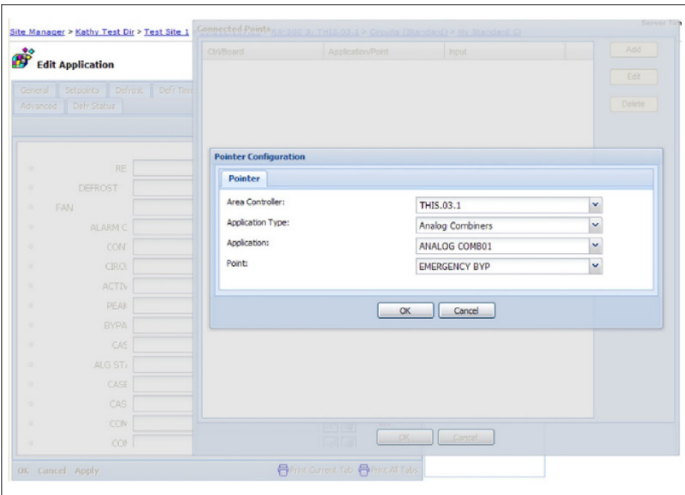
Example 1: A time schedule that has a digital output that is

turned on and off based on time is hooked to a digital input of another application to perform a bypass action based on the time of day.

Example 2: An analog combiner with four temperature inputs can average the inputs and have the average as the output value. The output is connected to the input of another application to control off of the average temperature.


Click **OK** to save the settings; pointer information will display in the **Value** field of the **Edit Application** page. Click **Cancel** to exit.

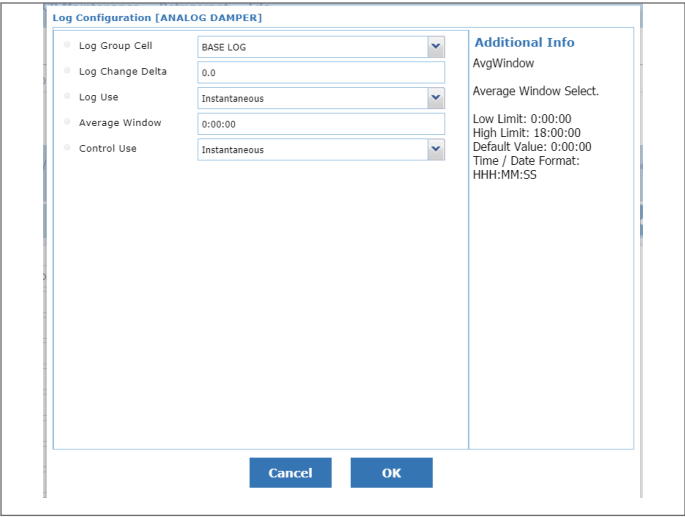
Each output point that has the ability to be a pointer can point to multiple other input points within a controller. To connect an output point to multiple input points, click the **Pointer Configuration** icon of an output. A pop-up window will open and display all the input points connected to that output. (The page will be blank if no point is connected currently.) Click to highlight an input point and click **Edit** to modify or click **Delete** to disassociate the point and remove from the list. To connect more points, click the **Add** button.



Pointer Configuration Menu

Log Configuration


You can set up log parameters of an application instance by clicking the **Log Configuration** icon  (available only for points that have logs). There are two possible types of log configuration: analog and digital. Information related to the point will appear when the point is clicked. Click **OK** to save or **Cancel** to exit.

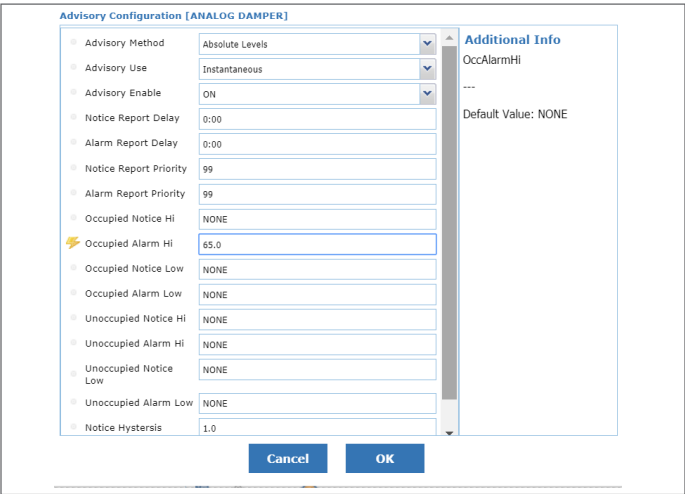
The screenshot shows the 'Log Configuration [ANALOG DAMPER]' window. It has a left sidebar with a tree view containing 'Log Group Cell', 'Log Change Delta', 'Log Use', 'Average Window', and 'Control Use'. The main area contains settings for these items: 'Log Group Cell' is set to 'BASE LOG', 'Log Change Delta' is '0.0', 'Log Use' is 'Instantaneous', 'Average Window' is '0:00:00', and 'Control Use' is 'Instantaneous'. On the right, there is an 'Additional Info' section with 'AvgWindow' and 'Average Window Select.' labels, and a list of limits: 'Low Limit: 0:00:00', 'High Limit: 18:00:00', 'Default Value: 0:00:00', and 'Time / Date Format: HHH:MM:SS'. At the bottom are 'Cancel' and 'OK' buttons.

Log Configuration

Grayed out icons appear when there is no log configuration or alarm configuration set up yet. Click on the grayed-out icons to set up a log configuration or advisory configuration for the first time.


Advisory Configuration

Click the **Advisory Configuration** icon  to set up advisory parameters for the current point. This will configure advisories for this point only. Each point that needs advisory configuration will be set up separately. Click **OK** to apply changes or **Cancel** to exit the window without saving.

The screenshot shows the 'Advisory Configuration [ANALOG DAMPER]' window. The left sidebar has a tree view with 'Advisory Method', 'Advisory Use', 'Advisory Enable', 'Notice Report Delay', 'Alarm Report Delay', 'Notice Report Priority', 'Alarm Report Priority', 'Occupied Notice Hi', 'Occupied Alarm Hi', 'Occupied Notice Low', 'Occupied Alarm Low', 'Unoccupied Notice Hi', 'Unoccupied Alarm Hi', 'Unoccupied Notice Low', 'Unoccupied Alarm Low', and 'Notice Hysteresis'. The main area shows settings for these items: 'Advisory Method' is 'Absolute Levels', 'Advisory Use' is 'Instantaneous', 'Advisory Enable' is 'ON', 'Notice Report Delay' is '0:00', 'Alarm Report Delay' is '0:00', 'Notice Report Priority' is '99', 'Alarm Report Priority' is '99', 'Occupied Notice Hi' is 'NONE', 'Occupied Alarm Hi' is '65.0', 'Occupied Notice Low' is 'NONE', 'Occupied Alarm Low' is 'NONE', 'Unoccupied Notice Hi' is 'NONE', 'Unoccupied Alarm Hi' is 'NONE', 'Unoccupied Notice Low' is 'NONE', 'Unoccupied Alarm Low' is 'NONE', and 'Notice Hysteresis' is '1.0'. On the right, the 'Additional Info' section shows 'OccAlarmHi' and 'Default Value: NONE'. At the bottom are 'Cancel' and 'OK' buttons.

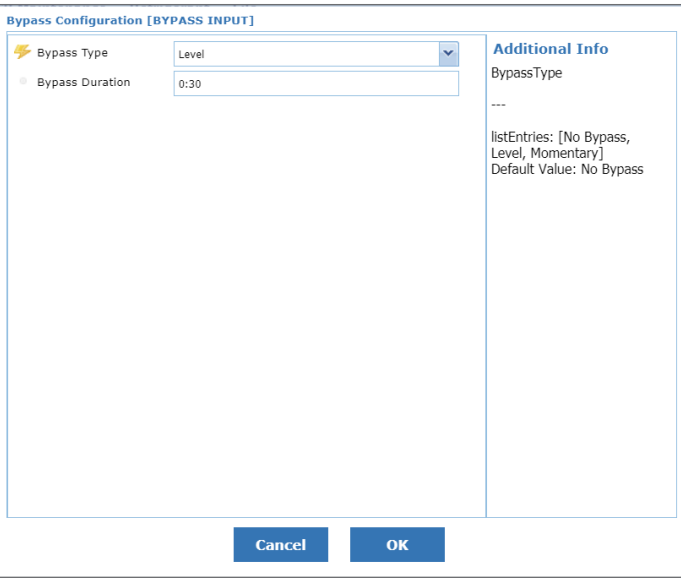
Advisory Configuration Menu

Bypass Configuration

If available, click the **Bypass Configuration** icon  to set up the bypass parameters. It can allow you to configure the command output to be bypassed to a fixed value by a switch or push button. The **Bypass Configuration** pop-up window will open. Click **OK** to apply and exit this popup or **Cancel** to exit without saving changes.

Bypass can be set as **No Bypass**, **Level**, **Momentary**.
Level: Activated or de-activated by level where a normal switch is usually used: usually "ON" level of the digital input activates some specified event and the level bypass will follow the input; however, there is a timer associated with the level bypass which is used as a failsafe. The duration is used to turn off the bypass after a certain time if the input is still on.

Momentary: Activated or de-activated by pulse where the push button is normally used: the corresponding digital input will scan for pulse (ascending edge and descending edge) to signal the start of the bypass. When the bypass is initiated, a timer will be used to control the length of the bypass. Once the bypass timer reaches the duration specified in the bypass timeout, the bypass will terminate. During bypass period, the bypass can also be canceled when the corresponding digital input detects a certain number (3 in our design) of pulses.

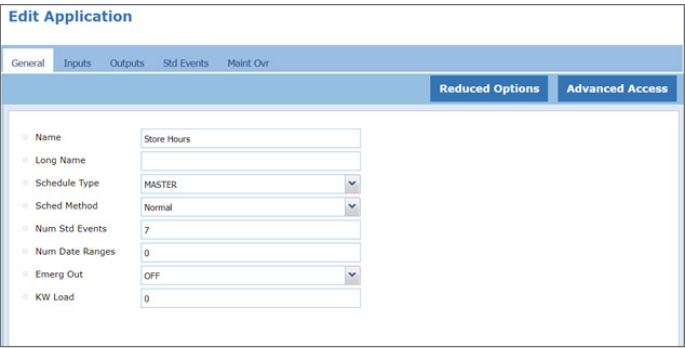
The screenshot shows the 'Bypass Configuration [BYPASS INPUT]' window. The left sidebar has a tree view with 'Bypass Type' and 'Bypass Duration'. The main area shows settings: 'Bypass Type' is 'Level' and 'Bypass Duration' is '0:30'. On the right, the 'Additional Info' section shows 'BypassType' and a list of entries: 'listEntries: [No Bypass, Level, Momentary]' and 'Default Value: No Bypass'. At the bottom are 'Cancel' and 'OK' buttons.

Bypass Type

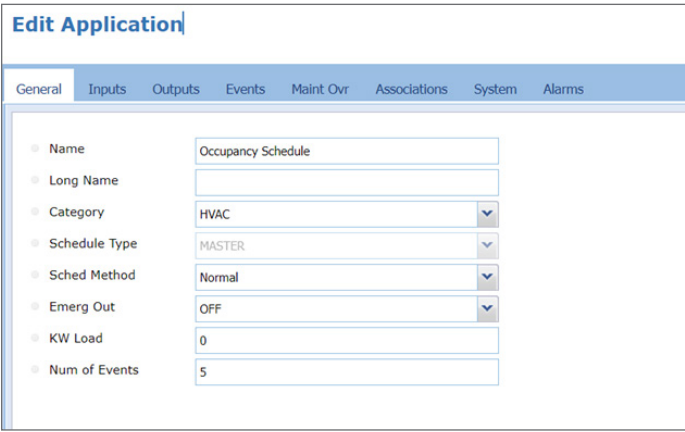
Once all the configurations are completed on the **Edit Application** page, click **Apply** to send the configuration to the controller, you will stay on this page and can continue to edit other properties. Click **OK** to send the configuration to the controller and exit the page.

12.5.1 Edit Time Schedule

Right-click on the instance of Time Schedule and select **Configure > Edit Application Instance**. From here you can manage your schedule event through **Edit Application** page.



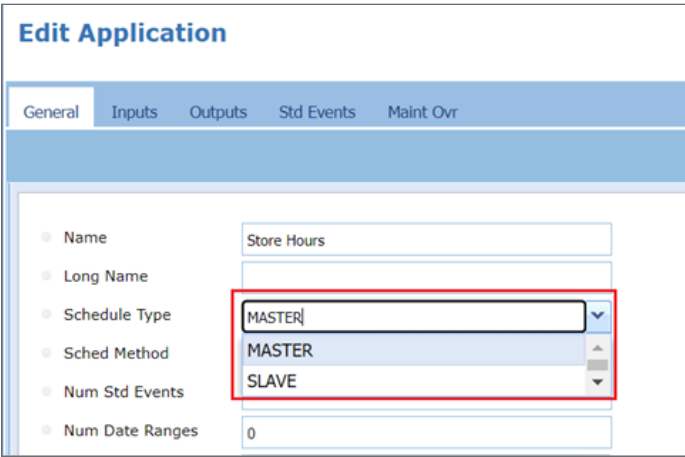
Time Schedule for E2



Time Schedule for Site Supervisor and E3

Schedule Type

E2, Site Supervisor and E3 support two schedule types, the **Master** schedule and the **Slave** schedule. You can configure it from **General** tab.



Configure Schedule Type

Master schedules are the main scheduling unit used by E2, Site Supervisor and E3. A master schedule consists of up to 15 scheduled ON/OFF event pairs of E2, and Site Supervisor and E3 support 20 events, which may be programmed to occur on any individual date and time or series of dates and times. **Master** schedules may also drive slave schedules.

Slave schedules are similar to master schedules, except their operation is driven by a master schedule.

Generally, slave schedules are alterations of the master schedule’s event times. The ON/OFF times in a slave schedule may take place either at specific defined times of the day or relative to the times given in the master schedule.

For example, a master schedule may be defined as: “The building is occupied from 8:00 a.m. to 9:00 p.m.” while one of its slave schedules be defined as: “Dim the building lights 15 minutes before the store closes.”

Slave schedules may also be mastered by other slave schedules to create a series of stacked schedules.

Absolute and Relative Events

You can configure the schedule event from the Events tab. Events are simple commands to turn the schedule output either ON or OFF at a particular time within a range of days.

Master schedule events always occur at specific times of the day. In other words, when you program an event pair in a master schedule, you must specify two specific times of the day the events will occur. These types of events are called absolute events.

However, when programming event times in slave schedules, you can choose to enter absolute events times, or event times that are relative to its master schedules ON and OFF times; these types of events are called relative events. They are programmed not as absolute times but as amounts of time before or after its master schedule’s events.

For example, set up a master schedule to be ON at 8 a.m. and OFF at 9 p.m. every day of the week, and you wish to set up a slave schedule so that its output comes ON 15 minutes before the master comes ON and OFF 15 minutes after the master goes OFF. To do this, you would set up the slave schedule to come ON at -00:15 and OFF at +00:15 every day of the week. The slave schedule will automatically determine the correct ON and OFF times.

Manage Time Events

Increase the number of **Num Std Events** of E2 or **Num of Events** of Site Supervisor and E3 from the **General** tab when you want to add new schedule events. After increasing the number, the new empty lines will be added in **Std Events** tab of E2 (It is called the **Events** tab of Site Supervisor and E3) to let you add a new event.

GeneralInputsOutputsEventsMaint OvrAssociationsSystem

Name

Alarms

Long Name

Category

Other

Schedule Type

MASTER

Sched Method

Normal

Emerg Out

OFF

KW Load

0

Num of Events

7

Configure Number of Events

Edit Application

| General | Inputs | Outputs | Events | Maint Ovr | Associations | System | Alarms | | | | | | | | |
|----------|--------|----------------|--------|-----------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|
| | | Schedule Label | Start | Stop | S | M | T | W | R | F | A | H1 | H2 | H3 | H4 |
| Events 1 | | Weekdays | 07:00 | 16:31 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Events 2 | | Friday | 07:00 | 18:00 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Events 3 | | Saturday | 07:30 | 13:00 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Events 4 | | Holiday | 08:00 | 08:01 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Events 5 | | Sunday | 00:00 | 00:00 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Events 6 | | | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Events 7 | | | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

New Events Added

For the same reason, you could remove the schedule events by reducing the number of Num Std Events, it will delete the last few events. For example, there are five time schedule events exist, and you reduce the Num Std Events from 5 to 3, then the events 4 and 5 will be removed.

When you configure the master and slave events, you may configure the conflict events of the date range. For example, a master event configured to execute on Monday and Tuesday, but a slave event configured relative to the master time at Monday and Wednesday. In this situation, the slave schedule will only be applied to the overlapped date, in this example, it will be applied on Monday.

12.5.2 Edit User Access

Users can be managed in the controller from **Edit application** page of **User Access**. Right-click on the instance of **User Access** and select **Configure > Edit Application Instance**.

| SetupUsersAccess LevelsDefaultUI | | | | | Reduced Options | | Advanced Access | |
|----------------------------------|--|-----------|---------------|-------------|-----------------|--|-----------------|---|
| | | User Name | User Password | Auto Logoff | Access Level | | | |
| 1 | | USER | ***** | 0:30 | 4 | | | ▲ |
| 2 | | JMREFRIG | ***** | 0:30 | 2 | | | |
| 3 | | ADVDEMO | ***** | 0:30 | 4 | | | |
| 4 | | | | 0:30 | 1 | | | |
| 5 | | | | 0:30 | 1 | | | |
| 6 | | | | 0:30 | 1 | | | |
| 7 | | | | 0:30 | 1 | | | |
| 8 | | | | 0:30 | 1 | | | |
| 9 | | | | 0:30 | 1 | | | |
| 10 | | | | 0:30 | 1 | | | |
| 11 | | | | 0:30 | 1 | | | |
| 12 | | | | 0:30 | 1 | | | |

User Access of E2

E2 can enable up to 25 different users. You can configure username, password and access level from the **User** tab. Access level determines how many of the E2's features the user may use. There are four access levels, one being the lowest and four being the highest. You can also configure it from **Access Levels** tab.

| Setup Users Access Levels DefaultUI | | | | | |
|---|----------|--------|----------|-----------------|-----------------|
| | | | | Reduced Options | Advanced Access |
| | Setpoint | Bypass | Override | Config | Alarm Ack |
| Refrigeration Control | 2 | 2 | 3 | 3 | 3 |
| Building Control | 2 | 2 | 3 | 3 | 3 |
| Advanced Control | 2 | 2 | 3 | 3 | 3 |
| Common Control | 2 | 2 | 3 | 3 | 3 |

Access Level of E2

Different than E2, Site Supervisor and E3 use roles to manage feature usability. There are 5 default roles and 1 default user existing on the controller, and these default roles and users cannot be edited or deleted. You can add a maximum of 20 roles and users.

The role management function is only supported on Connect+ 1.5.6 and Site Supervisor and E3 2.24 versions and above.

| General Users User Roles | | | | | | | | | | | | | | |
|-----------------------------------|--------------------------|--------------------|----------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| | Delete | Role Name | Template | Send Application... | Edit Applications | Update Applicati... | Add / Remove A... | Bypass Applicati... | Override Applica... | Customize Appli... | Acknowledge Al... | Mute Alarms | Reset Alarms | Alarm Admi... |
| #1 | <input type="checkbox"/> | Energy Manager | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| #2 | <input type="checkbox"/> | Monitoring Staff | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| #3 | <input type="checkbox"/> | Non-Technical E... | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| #4 | <input type="checkbox"/> | System Admin | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| #5 | <input type="checkbox"/> | Technician | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| #6 | <input type="checkbox"/> | Demo Role 6 | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| #7 | <input type="checkbox"/> | Demo Role 7 | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

User Roles of Site Supervisor and E3

| General Users User Roles | | | | | | | | | | | | | | |
|------------------------------|--------------------------|--------------------|----------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| | Delete | Role Name | Template | Send Application... | Edit Applications | Update Applicati... | Add / Remove A... | Bypass Applicati... | Override Applica... | Customize Appli... | Acknowledge Al... | Mute Alarms | Reset Alarms | Alarm Admi |
| #1 | <input type="checkbox"/> | Energy Manager | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| #2 | <input type="checkbox"/> | Monitoring Staff | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| #3 | <input type="checkbox"/> | Non-Technical E... | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| #4 | <input type="checkbox"/> | System Admin | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| #5 | <input type="checkbox"/> | Technician | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| #6 | <input type="checkbox"/> | Demo Role 6 | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| #7 | <input type="checkbox"/> | Demo Role 7 | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

User List in Site Supervisor and E3

If you want to assign a customized role to a user, you must add the role first.

Add a role or user by increasing the number in **General** tab. After the number is increased, you can see the empty row is displayed on **User Roles** or **Users** tab to let you add a new role or user. This number cannot be reduced.

General Users User Roles

Number of Users

2

Number of Roles

7

Increase User and Role Number

12.6 Setpoint Broadcast

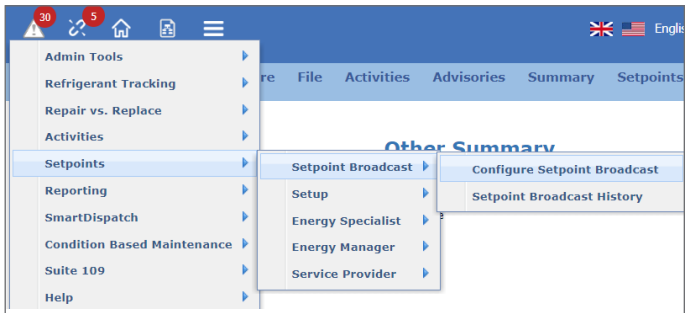
Connect+ users can utilize the powerful **Setpoint Broadcast** feature to change the Controller Application Points Value or Points Configuration. Setpoint Broadcast allows users to define their own change template by selecting an existing application's points, and next broadcast the specific changes to the Target Controller Group across Enterprise.

This enterprise level capability helps users reduce time tremendously when setting up a new store such as General Setup, Case Controller Setting Configuration, and performing regular updates, such as change User Access, and Lighting Schedule.

This section starts from general capability, and then specifies the details in most common scenarios such as User Access, Lighting Schedule, and case controller settings by using Setpoint Broadcast for changes.

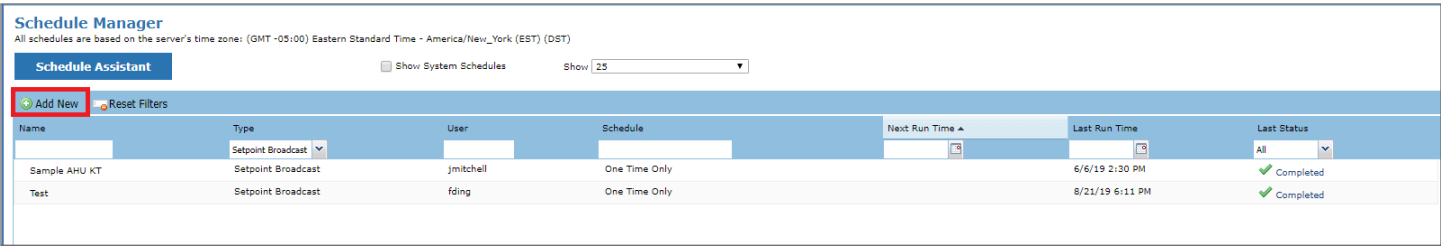
12.6.1 General Setpoint Broadcast

You can choose **Top Menu > Setpoints > Setpoint Broadcast > Configure Setpoint Broadcast**:



General Setpoint Broadcast Menu

If you have scheduled Setpoint Broadcast previously, you will see a list of Setpoint Broadcast entries. You can start from an existing entry and modify it to save as a new Setpoint Broadcast. Or you can choose **Add New**:



Schedule Manager

Once you click **Add New**, you will be redirected to a new page to configure Setpoint Broadcast Activity.

You can choose **Run Now** if it is a one-time activity or **Run on Schedule** if it is regular activity.

If you choose **Run Now**, you do not need to provide a name for your Setpoint Broadcast Activity. It will run just once.

☒ Run Now ☐ Run On Schedule

Type: Setpoint Broadcast ▼

Application Setpoint Broadcast

☒ Test Send - (if checked, values will not be changed.)☐ Retry on failed targets?

 Add New |  Edit |  Rename |  Delete |  Summary

| Name | Application Type | Protocol Type |
|----------|---------------------|---------------|
| lighting | Lighting Control | Site Supv |
| std | Circuits (Standard) | E2 |

 Add New |  Copy |  Edit |  Delete

| Name | Application Type | Protocol Type |
|------|------------------|---------------|
|------|------------------|---------------|

If you choose **Run on Schedule**, you must provide a name for the Setpoint Broadcast Activity, and specify a regular time for the activity to run:

Details

Enabled: ☒

Name:

Type: Setpoint Broadcast

Schedule

(GMT -05:00) Eastern Standard Time - America/New_York (EST) (DST)

Run Once

Calendar Based

Start Date/Time: 12/03/19 9:33 AM

End Date/Time:

Every Day

Days of Week

Days of Month

Hours

Minutes

All

Clear

All

Clear

Notification

On Success

On Unsuccessful

Configuration

Application Setpoint Broadcast

Test Send - (if checked, values will not be changed.)

Retry on failed targets?

Application Setpoint Group

| Name | Application Type | Protocol Type |
|-----------------|---------------------|---------------|
| AHU test | Air Handlers (AHUs) | E2 |
| AHU Test1 | Air Handlers (AHUs) | E2 |
| Another na... | Air Handlers (AHUs) | E2 |
| Beer Case T... | Circuits (Standard) | E2 |
| Candy Test | Circuits (Standard) | E2 |
| Case Alarm ... | Circuits (Standard) | E2 |
| Circuit Case... | Circuits (Standard) | E2 |
| Circuit Tem... | Circuits (Standard) | E2 |
| Ckt test | Circuits (Standard) | E2 |
| Demo E2 U... | User Access Levels | E2 |

Point Configuration Setpoint Broadcast

Target Controller Group

| Name | Application Type | Protocol Type |
|----------------|----------------------|---------------|
| AHU Test1 | Air Handlers (AHU... | E2 |
| AHU Test1... | Air Handlers (AHU... | E2 |
| All Ice Cre... | Circuits (Standard) | E2 |
| Beer Case ... | Circuits (Standard) | E2 |
| Case Alar... | Circuits (Standard) | E2 |
| Circuit Cas... | Circuits (Standard) | E2 |
| Ckt test | Circuits (Standard) | E2 |
| Demo 154... | User Access Levels | E2 |
| Demo E2 ... | User Access Levels | E2 |
| Engle Test | Air Handlers (AHU... | E2 |

You can choose **Application Setpoint** or **Point Configuration Broadcast**.

Application Setpoint Broadcast allows you to broadcast point value changes. Most common scenarios such as User Access, Lighting Schedule, and case controller settings belong to this category, which will be addressed in the following sections.

Application Setpoint Group(Name : AHU test | Application Type : Air Handlers (AHUs))

GeneralSetpointsInputsOutputsHT/CL SetupHT/CL StgsGeneral FanAdv FanDehumCool SetptsHeat SetptsMisc SetptsEconFail/EmergencyAlarmsSystem

Name

1-MAIN AHU

Long Name

A

Strategy

Separate Setpoints

Controlled By

Space

Num Space Temps

1

Temp Comb Meth

AVERAGE

Rcl Heat Stages

0

Aux Heat Stages

4

Heat Pump Stage

0

Cool Stages

4

Fan Type

Variable-Speed

Dehumidify By

Dewpoint

Econ Dmpr Type

Analog

Phase Protect

☐

APPARENT TMP EN

Application Num

0

Additional Info

Aux Heat Stages

Number of auxiliary heat stages

Low Limit: 0

High Limit: 8

Default Value: 0

Cancel

Save

Application Setpoint Group

Point Configuration allows you to broadcast both **Analog** and **Digital Point Configurations**:

Application Setpoint Group(Name : AHU test | Application Type : Air Handlers (AHUs))

GeneralSetpointsInputsOutputsHT/CL SetupHT/CL StgsGeneral FanAdv FanDehumCool SetptsHeat SetptsMisc SetptsEconFail/EmergencyAlarmsSystem

Name

1-MAIN AHU

Long Name

A

Strategy

Separate Setpoints

Controlled By

Space

Num Space Temps

1

Temp Comb Meth

AVERAGE

Rcl Heat Stages

0

Aux Heat Stages

4

Heat Pump Stage

0

Cool Stages

4

Fan Type

Variable-Speed

Dehumidify By

Dewpoint

Econ Dmpr Type

Analog

Phase Protect

☐

APPARENT TMP EN

Application Num

0

Additional Info

Aux Heat Stages

Number of auxiliary heat stages

Low Limit: 0

High Limit: 8

Default Value: 0

Cancel

Save

Point Configuration Group

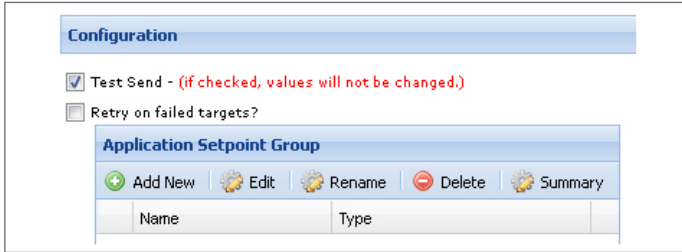
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12.6.2 Configuration

Test Send check box: (When Setpoint Broadcast is set as the type of Schedule) When this box is checked, a Test Send will perform all steps of an actual setpoint broadcast (except it will not actually execute the send). The message in red next to the Test Send check box will notify the users that selecting the check box will not actually send the values.



Configuration Tab

The Test Send, if selected, will connect to the device and retrieve any information needed to test for valid points. This test will show up in the Schedule Manager as a setpoint broadcast entry. There’s no need to recreate the schedule, just edit the schedule and unchecked the Test Send option (the details of the test will be available on the activity history page once the test has been completed). You will know that the setpoint broadcast was only a Test Send because it will be part of the activity history details message.

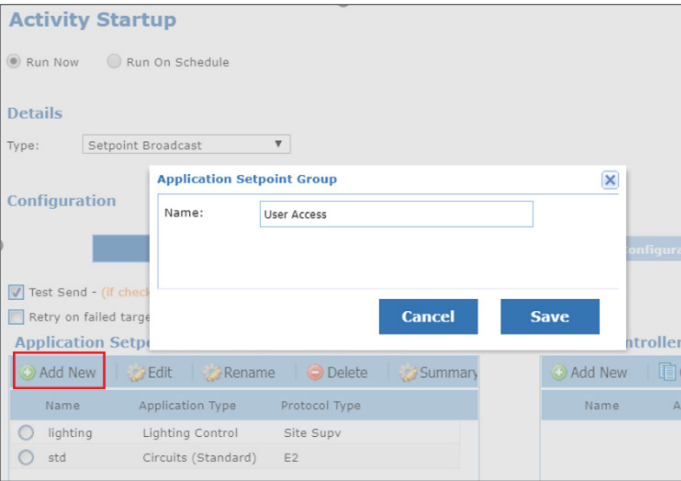
Retry on failed targets? check box: When this box is checked, Setpoint Broadcast will re-run automatically on sites that failed or did not complete the initial broadcast. Setpoint broadcast will continue to run on each of these sites until the activity is completed or until the set number of tries is reached (for scheduled Setpoint Broadcasts only). If the Set-point Broadcast fails on a number of target control systems after the set number of tries, a file containing information about the sites and control systems that failed the activity will be generated in a sub folder under the vault (database) folder.

Details of the retry activity will be recorded in the Activity History page once the setpoint broadcast is completed.

12.6.3 Application Setpoint Broadcast

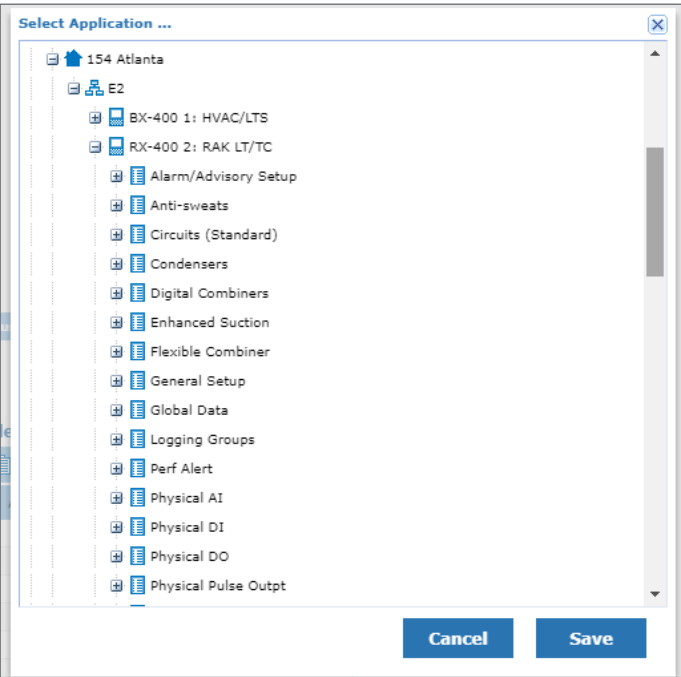
Choose Change Template

Once you have chosen Application Setpoint, click **Add New**:



Changing Template

Select an Application from the tree structure to start compiling your Change Template:



Selecting Application

Go through different point tabs to choose the point and enter the value you want to change:

Application Setpoint Group(Name : AHU test | Application Type : Air Handlers (AHUs))

General Setpoints Inputs Outputs HT/CL Setup HT/CL Stgs General Fan Adv Fan

System

MIN SPLY TMP CL

Additional Info

MIN SPLY TMP CL

Minimum supply temp for cooling

Low Limit: -40.0
High Limit: 150.0
Default Value: 50.0

Cancel Save

Point Tabs

Application Setpoint Group(Name : AHU test | Application Type : Air Handlers (AHUs))

General Setpoints Inputs Outputs HT/CL Setup HT/CL Stgs General Fan Adv Fan

System

Heat Lockout En ☐

FreezeStat Stpt

Cool Lockout En ☐

Value Text

Proof Text

FreezeStat Text

Additional Info

FreezeStat setpoints for all cool stages

Low Limit: -40.0
High Limit: 100.0
Default Value: 32.0

Cancel Save

HT/CL Setup

Click **Save** and the **Change Template** is saved by the name you provided:

Configuration

Application Setpoint Broadcast

☐ Test Send - (if checked, values will not be changed.)

☐ Retry on failed targets?

Application Setpoint Group

+ Add New | Edit | Rename | Delete | Summary

| Name | Application Type | Protocol Type |
|---------------------------------------|---------------------|---------------|
| <input type="radio"/> AHU test | Air Handlers (AHUs) | E2 |
| <input type="radio"/> AHU Test1 | Air Handlers (AHUs) | E2 |
| <input type="radio"/> Another na... | Air Handlers (AHUs) | E2 |
| <input type="radio"/> Beer Case T... | Circuits (Standard) | E2 |
| <input type="radio"/> Candy Test | Circuits (Standard) | E2 |
| <input type="radio"/> Case Alarm ... | Circuits (Standard) | E2 |
| <input type="radio"/> Circuit Case... | Circuits (Standard) | E2 |
| <input type="radio"/> Circuit Tem... | Circuits (Standard) | E2 |
| <input type="radio"/> Ckt test | Circuits (Standard) | E2 |
| <input type="radio"/> Demo E2 U... | User Access Levels | E2 |
| <input type="radio"/> DocTest | Onboard IO | Site Surv. |

Point Configuration Setpoint Broadcast

Target Controller Group

+ Add New | Copy | Edit | Delete

| Name | Application Type | Protocol Type |
|---|----------------------|---------------|
| <input type="radio"/> AHU Test1 | Air Handlers (AHU... | E2 |
| <input type="radio"/> AHU Test1... | Air Handlers (AHU... | E2 |
| <input type="radio"/> Engie Test | Air Handlers (AHU... | E2 |
| <input checked="" type="radio"/> Sample AHU | Air Handlers (AHU... | E2 |
| <input type="radio"/> TW test | Air Handlers (AHU... | E2 |

Saving the Template

If there are existing Target Controller Groups for same application type, the mapping entries are filtered. Otherwise, you can **Add New**:

Target Controller Group

Filter Target Controller Group

Configuration

Application Setpoint Broadcast

Test Send - (if checked, values will not be changed.)

Retry on failed targets?

Application Setpoint Group

+ Add New

⚙ Edit

🔄 Rename

🗑 Delete

📄 Summary

| Name | Application Type | Protocol Type |
|---------------------------------------|---------------------|----------------|
| <input type="radio"/> AHU test | Air Handlers (AHUs) | E2 |
| <input type="radio"/> AHU Test1 | Air Handlers (AHUs) | E2 |
| <input type="radio"/> Another na... | Air Handlers (AHUs) | E2 |
| <input type="radio"/> Beer Case T... | Circuits (Standard) | E2 |
| <input type="radio"/> Candy Test | Circuits (Standard) | E2 |
| <input type="radio"/> Case Alarm ... | Circuits (Standard) | E2 |
| <input type="radio"/> Circuit Case... | Circuits (Standard) | E2 |
| <input type="radio"/> Circuit Tem... | Circuits (Standard) | E2 |
| <input type="radio"/> Ckt test | Circuits (Standard) | E2 |
| <input type="radio"/> Demo E2 U... | User Access Levels | E2 |
| <input type="radio"/> DocTest | Onboard IO | Site Superv... |

Point Configuration Setpoint Broadcast

Target Controller Group

+ Add New

📄 Copy

⚙ Edit

🗑 Delete

| Name | Application Type | Protocol Type |
|---|----------------------|---------------|
| <input type="radio"/> AHU Test1 | Air Handlers (AHU... | E2 |
| <input type="radio"/> AHU Test1... | Air Handlers (AHU... | E2 |
| <input type="radio"/> Engie Test | Air Handlers (AHU... | E2 |
| <input checked="" type="radio"/> Sample AHU | Air Handlers (AHU... | E2 |
| <input type="radio"/> TW test | Air Handlers (AHU... | E2 |

Saving Target Controller Group

Choose **Change Template and Target Controller Group** and Click **Go** (Run Now) or **Apply** (Run on Schedule).

When you select one Application Setpoint Group for an application type, the matched Target Controller for the same application type will be filtered, you can only choose one Application Setpoint Group and one Target Controller Group for Setpoint broadcast activity.

Application Setpoint Group

+ Add New

⚙ Edit

🔄 Rename

🗑 Delete

📄 Summary

| Name | Application Type | Protocol Type |
|--|---------------------|----------------|
| <input type="radio"/> AHU test | Air Handlers (AHUs) | E2 |
| <input type="radio"/> AHU Test1 | Air Handlers (AHUs) | E2 |
| <input checked="" type="radio"/> Another na... | Air Handlers (AHUs) | E2 |
| <input type="radio"/> Beer Case T... | Circuits (Standard) | E2 |
| <input type="radio"/> Candy Test | Circuits (Standard) | E2 |
| <input type="radio"/> Case Alarm ... | Circuits (Standard) | E2 |
| <input type="radio"/> Circuit Case... | Circuits (Standard) | E2 |
| <input type="radio"/> Circuit Tem... | Circuits (Standard) | E2 |
| <input type="radio"/> Ckt test | Circuits (Standard) | E2 |
| <input type="radio"/> Demo E2 U... | User Access Levels | E2 |
| <input type="radio"/> DocTest | Onboard IO | Site Superv... |

Target Controller Group

+ Add New

📄 Copy

⚙ Edit

🗑 Delete

| Name | Application Type | Protocol Type |
|---|----------------------|---------------|
| <input type="radio"/> AHU Test1 | Air Handlers (AHU... | E2 |
| <input type="radio"/> AHU Test1... | Air Handlers (AHU... | E2 |
| <input type="radio"/> Engie Test | Air Handlers (AHU... | E2 |
| <input checked="" type="radio"/> Sample AHU | Air Handlers (AHU... | E2 |
| <input type="radio"/> TW test | Air Handlers (AHU... | E2 |

Summary List

Cancel

Apply

Save

Saving Target Controller Group

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Check Setpoint Broadcast History

You can select **Admin Tools > Setpoints > Setpoint Broadcast > Setpoint Broadcast History** to view the setpoint broadcast activity result. It is including information such as the type of activity performed.

Setpoint Broadcast Activity History - Results

Occurrence Date

All

Show

25

Reset Filters

Refresh Setpoint Broadcast History

| Name | Started | Duration | User | Result | Setpoint Broadcast ... | Revert |
|--|-------------------|----------|----------------|---------------------------------|------------------------|--------------------|
| <div><div></div>Beer Case Test</div> | 10/23/19 10:33 AM | 00:00:03 | Jim Mitchell | <div><div></div>Completed</div> | Show Detail | Revert |
| <div><div></div>Beer Case Test</div> | 10/23/19 10:24 AM | 00:00:02 | Jim Mitchell | <div><div></div>Completed</div> | Show Detail | Reverted |
| <div><div></div>Circuit Case Temp Priority</div> | 10/23/19 9:12 AM | 00:00:08 | Engineer Admin | <div><div></div>Completed</div> | Show Detail | Revert |
| <div><div></div>Circuit Case Temp Priority</div> | 10/23/19 9:10 AM | 00:00:23 | Engineer Admin | <div><div></div>Completed</div> | Show Detail | |
| <div><div></div>Beer Case Test</div> | 10/22/19 2:53 PM | 00:00:02 | Jim Mitchell | <div><div></div>Completed</div> | Show Detail | Partially Reverted |
| <div><div></div>Beer Case Test</div> | 10/22/19 2:50 PM | 00:00:16 | Jim Mitchell | <div><div></div>Completed</div> | Show Detail | |
| <div><div></div>Case Alarm Hi Limits</div> | 10/22/19 9:09 AM | 00:00:07 | Engineer Admin | <div><div></div>Completed</div> | Show Detail | |
| <div><div></div>Case Alarm Hi Limits</div> | 10/22/19 8:48 AM | 00:00:01 | Engineer Admin | <div><div></div>Completed</div> | Show Detail | Revert |
| <div><div></div>Case Alarm Hi Limits</div> | 10/22/19 8:12 AM | 00:00:05 | Engineer Admin | <div><div></div>Completed</div> | Show Detail | |

Page 1 of 1

Displaying activities 1 - 16 of 16

Setpoint Broadcast Activity History

- Name:** The Application Setpoint Group name when creating a new setpoint broadcast schedule.

Started: The time and date the activity began.

Duration: Total elapsed time for the activity to complete.

User: The user who started the activity.

Result: Details the outcome of the activity and whether or not it was successfully completed. (Clicking a link in the **Result** column will open a page contain more details about the activity performed.)

Setpoint Broadcast Details: Hover on the **Show Detail** button to see a tip to indicate XXX of XXX total applications have been updated. When the button is clicked, a pop-up window will list all the changed points and its original target value.

| Setpoint Broadcast Details | | | | | | | |
|----------------------------|--------|---------------------|----------------------|---------------|--------------|------------|----------------|
| Site | Unit | Application | Application Instance | Point | Changed From | Changed To | Test Send Only |
| 00067 - Holl... | UNIT A | Circuits (Standa... | A8 DELI | CASE TEMP... | 30.0 °F | 29.0 °F | No |
| 00087 - Lau... | UNIT A | Circuits (Standa... | A7 NEW DELI | CASE TEMP... | 31.0 °F | 29.0 °F | No |
| 00058 - Pal... | UNIT A | Circuits (Standa... | A8 DELI | Case Alarm... | 27.0 °F | 25.0 °F | No |
| 00090 - Dee... | UNIT A | Circuits (Standa... | A6 NEW DELI | CASE TEMP... | 31.0 °F | 29.0 °F | No |
| 00090 - Dee... | UNIT A | Circuits (Standa... | A6 NEW DELI | Case Alarm... | 28.0 °F | 25.0 °F | No |
| 00005 - Cap... | UNIT A | Circuits (Standa... | A8 DELI | Case Alarm... | 25.0 °F | 25.0 °F | No |
| 00036 - Boc... | UNIT A | Circuits (Standa... | CTU8 DELI | CASE TEMP... | 30.0 °F | 29.0 °F | No |
| 00058 - Pal... | UNIT A | Circuits (Standa... | A5 DELI | Case Alarm... | 27.0 °F | 25.0 °F | No |
| 00096 - Mia... | UNIT A | Circuits (Standa... | A5 DELI | Case Alarm... | 28.0 °F | 25.0 °F | No |
| 00080 - Wes... | UNIT A | Circuits (Standa... | A5 DELI | CASE TEMP... | 33.0 °F | 29.0 °F | No |
| 00036 - Boc... | UNIT A | Circuits (Standa... | A5 DELI | CASE TEMP... | 30.0 °F | 29.0 °F | No |
| 00008 - Napl... | UNIT A | Circuits (Standa... | A5 DELI | CASE TEMP... | 31.0 °F | 29.0 °F | No |
| 00036 - Boc... | UNIT A | Circuits (Standa... | A5 DELI | Case Alarm... | 27.0 °F | 25.0 °F | No |
| 00005 - Cap... | UNIT A | Circuits (Standa... | A5 DELI | CASE TEMP... | 31.0 °F | 29.0 °F | No |
| 00008 - Napl... | UNIT A | Circuits (Standa... | A8 DELI | CASE TEMP... | 32.0 °F | 29.0 °F | No |
| 00092 - Cora... | UNIT A | Circuits (Standa... | A5 DELI | Case Alarm... | 27.0 °F | 25.0 °F | No |
| 00077 - Stua... | UNIT A | Circuits (Standa... | A5 DELI | Case Alarm... | 28.0 °F | 25.0 °F | No |
| 00085 - Delr... | UNIT A | Circuits (Standa... | A5 DELI | Case Alarm... | 28.0 °F | 25.0 °F | No |
| 00058 - Pal... | UNIT A | Circuits (Standa... | A8 DELI | CASE TEMP... | 30.0 °F | 29.0 °F | No |
| 00067 - Holl... | UNIT A | Circuits (Standa... | A5 DELI | CASE TEMP... | 30.0 °F | 29.0 °F | No |
| 00096 - Mia... | UNIT A | Circuits (Standa... | A5 DELI | CASE TEMP... | 31.0 °F | 29.0 °F | No |

Close

Setpoint Broadcast Details

Revert: It allows you to revert the point value by clicking the Revert button. You might see buttons with three names:

Revert: No points value have been reverted.

Reverted: All points have been reverted.

Partial Reverted: Parts of the points have been reverted.

You can revert to Application Setpoint Broadcast if necessary. *Note that you can only revert once.*

Setpoint Broadcast Activity History - Results

Occurrence Date Custom Range ▼

from 10/01/18 8 to 12/03/19 8

Go

Show 25 ▼

Reset Filters Refresh Setpoint Broadcast History

| Name | Started ▼ | Duration | User | Result | Setpoint Broadcast Det... | Revert |
|------|----------------------------|-------------------|----------|----------------|---------------------------|--------------------------------|
| | | | | All ▼ | | |
| + | Beer Case Test | 10/23/19 10:33 AM | 00:00:03 | Mitchell | ✓ Completed | Show Detail Revert |
| + | Beer Case Test | 10/23/19 10:24 AM | 00:00:02 | Mitchell | ✓ Completed | Show Detail Reverted |
| + | Circuit Case Temp Priority | 10/23/19 9:12 AM | 00:00:08 | Engineer Admin | ✓ Completed | Show Detail Revert |
| + | Circuit Case Temp Priority | 10/23/19 9:10 AM | 00:00:23 | Engineer Admin | ✓ Completed | Show Detail |
| + | Beer Case Test | 10/22/19 2:53 PM | 00:00:02 | Mitchell | ✓ Completed | Show Detail Partially Reverted |
| + | Beer Case Test | 10/22/19 2:50 PM | 00:00:16 | Mitchell | ✓ Completed | Show Detail |

Activity History

If you want to change the broadcast value back, you can click the **Revert** button. After clicking the button, it will jump to a **Revert Activity** page.

Revert Activity

Cancel

Revert Changes

Reset Filters

| | Application Instance | Directory | Site | Control System | Unit | Application Type |
|-------------------------------------|----------------------|-----------|---------------------------|----------------|--------|---------------------|
| <input checked="" type="checkbox"/> | | | | | | |
| <input checked="" type="checkbox"/> | A5 DELI | RPB Test | 00005 - Cape Coral A | E2 | UNIT A | Circuits (Standard) |
| <input checked="" type="checkbox"/> | A8 DELI | RPB Test | 00005 - Cape Coral A | E2 | UNIT A | Circuits (Standard) |
| <input checked="" type="checkbox"/> | A5 DELI | RPB Test | 00008 - Naples A | E2 | UNIT A | Circuits (Standard) |
| <input checked="" type="checkbox"/> | A8 DELI | RPB Test | 00008 - Naples A | E2 | UNIT A | Circuits (Standard) |
| <input checked="" type="checkbox"/> | A5 DELI | RPB Test | 00036 - Boca Raton B | E2 | UNIT A | Circuits (Standard) |
| <input checked="" type="checkbox"/> | CTU8 DELI | RPB Test | 00036 - Boca Raton B | E2 | UNIT A | Circuits (Standard) |
| <input checked="" type="checkbox"/> | A5 DELI | RPB Test | 00058 - Palm Springs A | E2 | UNIT A | Circuits (Standard) |
| <input checked="" type="checkbox"/> | A8 DELI | RPB Test | 00058 - Palm Springs A | E2 | UNIT A | Circuits (Standard) |
| <input checked="" type="checkbox"/> | A5 DELI | RPB Test | 00065 - Fort Lauderdale B | E2 | UNIT A | Circuits (Standard) |
| <input checked="" type="checkbox"/> | A8 DELI | RPB Test | 00065 - Fort Lauderdale B | E2 | UNIT A | Circuits (Standard) |
| <input checked="" type="checkbox"/> | A5 DELI | RPB Test | 00067 - Hollywood B | E2 | UNIT A | Circuits (Standard) |
| <input checked="" type="checkbox"/> | A8 DELI | RPB Test | 00067 - Hollywood B | E2 | UNIT A | Circuits (Standard) |

Displaying total 23 records

X

HTML

PDF

Revert Activity

If you wish to revert points back to their original value, choose the points that you want to change by clicking the check box in front of the row. Then click the **Revert Changes** button. The activity will commence.

User Access Change

1. Add an Application Setpoint Group and provide a name:
2. Select a User Access Instance from the **User Access** Application Type from the Tree structure to start your Change Template:

Activity Startup

Run Now

Run On Schedule

Details

Type: Setpoint Broadcast

Configuration

Application Setpoint Group

Name: User Access

Cancel

Save

Test Send - (If checked)

Retry on failed target

Application Setpoint

Add New

Edit

Rename

Delete

Summary

| Name | Application Type | Protocol Type |
|----------|---------------------|---------------|
| lighting | Lighting Control | Site Supv |
| std | Circuits (Standard) | E2 |

Add Application Setpoint Group

Select Application ...

Flexible Combiner

Global Data

HVACZone

IPX 6 Relay

Log Group

Onboard IO

RFModule

RLDS

StdCircuit

SystemSettings

TouchTstat

User Access

User Access

Utility Monitoring

XR35CX_26

yo

yo

yo

yo

Cancel

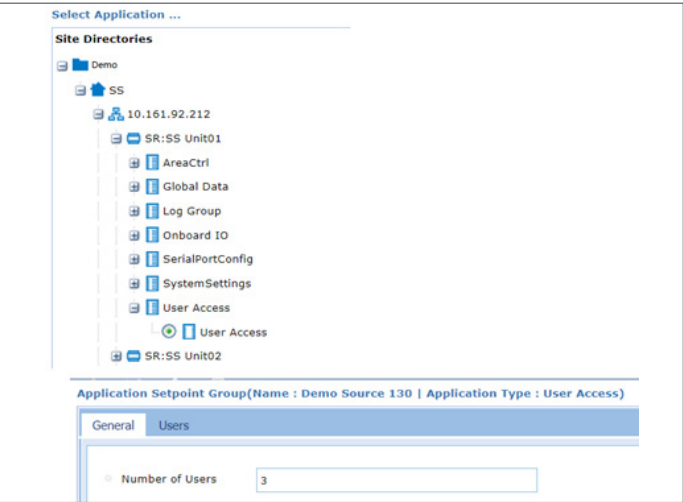
Save

Add Application Setpoint Group

3. Add/Delete a new user or role, select user information by clicking the **lightning bolt** and **Save**. The lightning bolt icon indicates the change to be applied. Click **Save**, and your Change Template is saved.

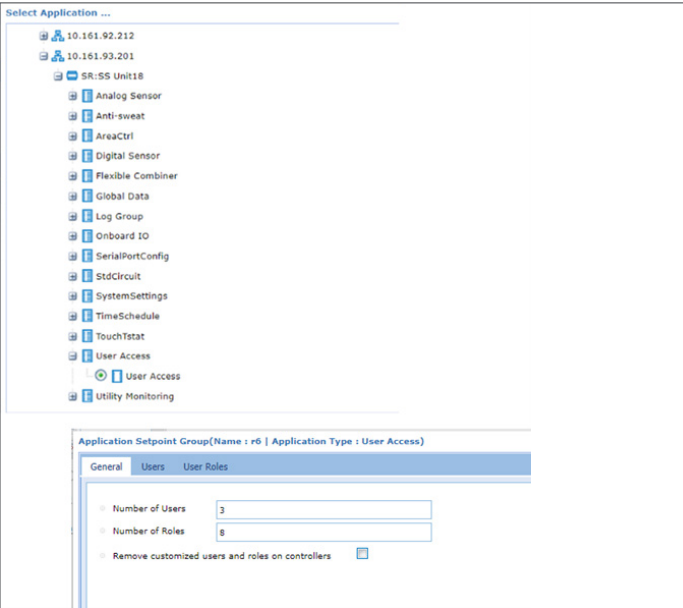
NOTE: Only Site Supervisor and E3 2.24 and Connect+ 1.5.6 and above versions can support role broadcast. E2 does not support role management.

If you create a User Access broadcast template by choosing a controller below version **2.24**, you will not see the **Role** tab.



User Access Template for Site Supervisor/E3 2.24 Below Version

But if the template is created based on Site Supervisor/ E3 2.24 and above versions, you can see the **Role** tab and broadcast it to the controller versions that support this function.

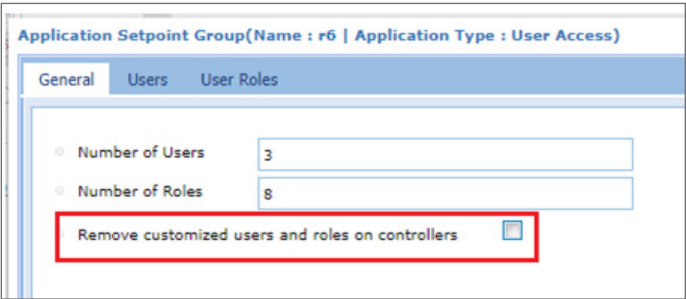


User Access Template for Site Supervisor/E3 2.24 Above Version

To add a new user or a role by increasing the user or role number in the **General** tab, then you will see a new blank role in **Users** or **Roles** tab.

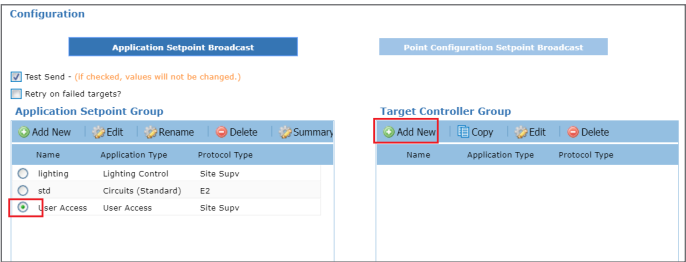
If deleting a user or a role by enabling the check box before each user or role, make sure the lightning bolt of the delete check box is checked. If a user has been assigned a role that is deleted, this user will be automatically assigned to **Non-Technical End User**.

If you want to remove all existing customized users and roles on the target controller at the same time, and replace with a batch of new users and roles configured in the template after broadcast, you can check the “Remove customized users and roles on controllers” check box in the **General** tab.



Remove User and Roles Check box

4. Select the newly added **User Access** Application Setpoint Group. You can either click Add New in the **Target Controller Group**, or choose an existing Target Group.



User Access

NOTE: If you have a template created for User Access before upgrading Connect+ from 1.5.6 below to 1.5.6 and above versions, you should create new template for User Access.

5. The **Target Controller Group** window will display. The List Power Builder allows you to choose the **Target Group** by filtering the **Application Type** with **User Access**:

cnxa1er-drs002/emerson/ListBuilder.do?fixedListType=SetpointBroadcastTargetControllerGroup&sourceNam...

Target Controller Group

List Name

User Access

Criteria

Use * (asterisk) for wildcard at the start or end of a match string. Separate multiple matches in a single field with commas. [Additional Help](#)

Directory

Diryonghui

Site

Control System

Unit

Application Type

User Access

Application Instance

Add To List

List Size: 5

Remove All Items

| | No. | Dir | Site | CS | Unit | App Type | App Inst |
|-------------------------------------|-----|------------|----------|---------------|--------------|-------------|-------------|
| <input checked="" type="checkbox"/> | 1 | Diryonghui | yonghui1 | 10.161.92.252 | SF:SS Unit01 | User Access | User Access |
| <input checked="" type="checkbox"/> | 2 | Diryonghui | yonghui2 | 10.161.92.252 | SF:SS Unit01 | User Access | User Access |
| <input checked="" type="checkbox"/> | 3 | Diryonghui | yonghui3 | 10.161.92.252 | SF:SS Unit01 | User Access | User Access |
| <input checked="" type="checkbox"/> | 4 | Diryonghui | yonghui4 | 10.161.92.252 | SF:SS Unit01 | User Access | User Access |
| <input checked="" type="checkbox"/> | 5 | Diryonghui | yonghui5 | 10.161.92.252 | SF:SS Unit01 | User Access | User Access |

Showing 1 - 5 of 5

Page Size: 10

Cancel

Save

List of Power Builder

6. Select the **Target Controller Group** and click **Go**. User Access will be broadcasted:

Configuration

Application Setpoint Broadcast

☒ Test Send - (if checked, values will not be changed.)

☐ Retry on failed targets?

Application Setpoint Group

Add New

Edit

Rename

Delete

Summary

| Name | Application Type | Protocol Type |
|--|---------------------|---------------|
| <input type="radio"/> lighting | Lighting Control | Site Supv |
| <input type="radio"/> std | Circuits (Standard) | E2 |
| <input checked="" type="radio"/> User Access | User Access | Site Supv |

Point Configuration Setpoint Broadcast

Target Controller Group

Add New

Copy

Edit

Delete

| Name | Application Type | Protocol Type |
|--|------------------|---------------|
| <input checked="" type="radio"/> User Access | User Access | Site Supv |

Go

Selecting the Target Controller Group

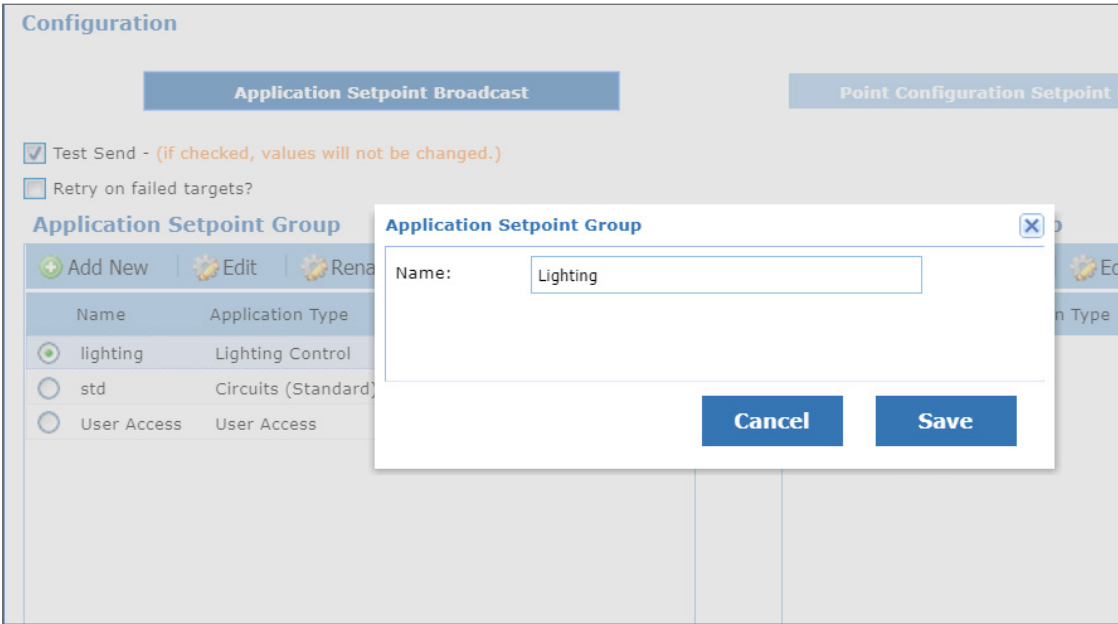
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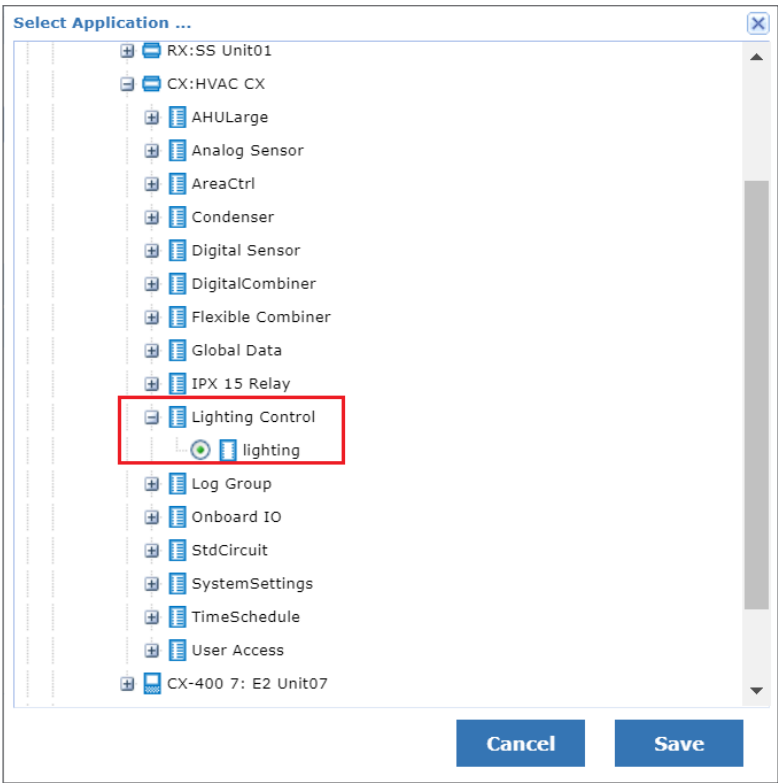
Lighting Schedule Change

1. Add a new **Lighting Application Setpoint Group** and provide a name:



Lighting Application Setpoint Group

2. Select a Lighting instance under the **Lighting Control** Application Type from the tree structure:



Lighting Instance

3. Click the **lightning bolt** in front of the point you wish to broadcast. The **Std Events** could be used for the Lighting Schedule:

Application Setpoint Group(Name : lighting1 | Application Type : Lighting Control)

Setup

Alarms

Min On/Off

Alt Control

Std Events

Maint Ovr

Inputs

Outputs

Proof

Additional Info

Cleaning Switch

listEntries: [NONE, EQUIPPED]

Default Value: NONE

| | Event 1 | Event 2 | S | M | T |
|---|---------|-----------|-------------------------------------|-------------------------------------|-------------------------------------|
| 1 | ON 7:00 | OFF 18:00 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2 | ON 9:00 | OFF 20:00 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Std Events Option

4. Select the newly added **Lighting Application Setpoint Group**. Add a new Target Controller Group of Lighting from the **Target Controller Group** window, by filtering Application Type using **Lighting Control**.

List Power Builder - Google Chrome

cnxa1er-drs002/emerson/ListBuilder.do?fixedListType=SetpointBroadcastTargetControlle...

Target Controller Group

List Name

lighting1

Criteria

Use * (asterisk) for wildcard at the start or end of a match string. Separate multiple matches in a single field with commas. Additional Help

Directory

SubDir

Site

Control System

Unit

Application Type

Lighting Control

Application Instance

Add To List

List Size: 2

Remove All Items

| | No. | Dir | Site | CS | Unit | App Type | App Inst |
|-------------------------------------|-----|--------|-------|-----|---------------------|------------------|-----------|
| <input checked="" type="checkbox"/> | 1 | SubDir | SS251 | 251 | CX-400 7: E2 Unit07 | Lighting Control | lighting |
| <input checked="" type="checkbox"/> | 2 | SubDir | SS251 | 251 | CX-400 7: E2 Unit07 | Lighting Control | LIGHTS001 |

Showing 1 - 2 of 2

Page Size: 10

Cancel

Save

Lighting Control Menu

5. Select the **Target Controller Group** and click **Go**. Lightning will be broadcasted:

Configuration

Application Setpoint Broadcast

☒ Test Send - (if checked, values will not be changed.)
☐ Retry on failed targets?

Application Setpoint Group

| Name | Application Type | Protocol Type | | |
|-------------|---------------------|---------------|--|--|
| lighting | Lighting Control | Site Supv | | |
| lighting1 | Lighting Control | E2 | | |
| std | Circuits (Standard) | E2 | | |
| User Access | User Access | Site Supv | | |

Point Configuration Setpoint Broadcast

Target Controller Group


| Name | Application Type | Protocol Type | |
|-----------|------------------|---------------|--|
| lighting1 | Lighting Control | E2 | |

Go

Lighting Control

Time Schedule Change

1. Add a new Time Schedule Application Setpoint Group and provide a name:



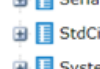
Application Setpoint Group

Name:

Cancel Save

Adding Time Schedule

2. Select a **Time Schedule** instance from the simulative tree.



The screenshot shows the Project Explorer in Visual Studio. The 'TimeSchedule' folder is highlighted with a red rectangle. Below it, several sub-items are listed: 'Master-1' (with a green play icon), 'Sched_001', 'Sched_002', 'Sched_003', 'Temporary Light Schedule', and 'tsnew'. At the bottom, 'User Access' is also visible.

Time Schedule

If the instance selected from the tree is a master schedule, it could only broadcast to master schedule on the target controller. If the selected instance is a slave schedule, it can only be broadcasted to a slave schedule on the target controller.

3. Click the lightning bolt in front of the event properties that you wish to broadcast for an existing schedule event:

| Application Setpoint Group(Name : Time ScheduleS Application Type : TimeSchedule) | | | | | | | | | | | |
|---|--------|---------|---------|--------------------------|-------------------------------------|--------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--|
| General | Inputs | Outputs | Events | MaInt Ovr | | Associations | System | Alarms | | | |
| | Sch... | Start | Stop | S | M | T | W | R | F | A | |
| Events 2 | m2 ⚡ | 07:00 ⚡ | 23:00 ⚡ | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Events 4 | m4 ⚡ | 09:00 ⚡ | 20:00 ⚡ | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |

Broadcast Existing Schedule Event

A master schedule event cannot be configured as relative time.

If the schedule event of which event number is existing on the target controller, then the event will be updated. If not, the update will not be applied to the event on the target controller.

For example: A user would like to apply Events 2 properties to the target controller, but on the target controller, the Events 2 do not exist, then the change will not be applied.

If you want to add a new event and broadcast it, you need to increase the Number of Events in the **General** tab, then configure all mandatory properties for the newly added event, check all the lighting bolts for the newly added events for broadcast.

If the event number on the target controller has been occupied, it will overwrite all the properties for the relative event, if not, the newly added event will be broadcasted to the target controller as a new event.

| General | Inputs | Outputs | Events | Maint Ovr | Associations | System | Alarm |
|----------------|--------|----------|--------|-------------------------------------|--------------|--------|-------|
| Schedule Label | | Start | Stop | S | | | |
| Events 1 | WE1 | No Event | 03:00 | <input checked="" type="checkbox"/> | | | |
| Events 3 | Label | 08:00 | 20:00 | <input type="checkbox"/> | | | |
| Events 4 | Label | 06:00 | 23:00 | <input type="checkbox"/> | | | |

Events for Time Schedule

4. Select the newly added time schedule **Application Setpoint Group**. Add a new **Target Controller Group** of time schedule from the **Target Controller Group** window by filtering the **Application Type** using a **Time Schedule**.

List Power Builder - Google Chrome

Not secure | usmtncsdeaip15.emrsn.org/emerson/ListBuilder.do?fixedListType=SetpointBroadcastTargetController...

Target Controller Group

List Name

Criteria

Use * (asterisk) for wildcard at the start or end of a match string. Separate multiple matches in a single field with commas. Additional Help

Directory

Site

Control System

Unit

Application Type

Application Instance

Add To List

List Size: 94

Remove All Items

| | No. | Dir | Site | CS | Unit | App Type | App Inst |
|-------------------------------------|-----|-----|---------|-----|-----------|--------------|---------------|
| <input checked="" type="checkbox"/> | 1 | Dir | SS-Site | 213 | SR:E3 131 | TimeSchedule | 0415_TS |
| <input checked="" type="checkbox"/> | 2 | Dir | SS-Site | 213 | SR:E3 131 | TimeSchedule | 183 slave |
| <input checked="" type="checkbox"/> | 3 | Dir | SS-Site | 213 | SR:E3 131 | TimeSchedule | 2 183 slave 2 |
| <input checked="" type="checkbox"/> | 4 | Dir | SS-Site | 213 | SR:E3 131 | TimeSchedule | 3 slave 3 |

Target Controller Group

5. Select the **Target Controller Group** and click **Go**. The **Time Schedule** will be broadcasted:

Application Setpoint Group

Add New

Edit

Rename

Delete

Summary

| Name | Application Type | Protocol Type |
|--|------------------|---------------|
| <input checked="" type="radio"/> time sched... | TimeSchedule | E3 |
| <input type="radio"/> Time Sched... | TimeSchedule | E2 |
| <input type="radio"/> TM-Remove | TimeSchedule | Site Supv |

Target Controller Group

Add New

Copy

Edit

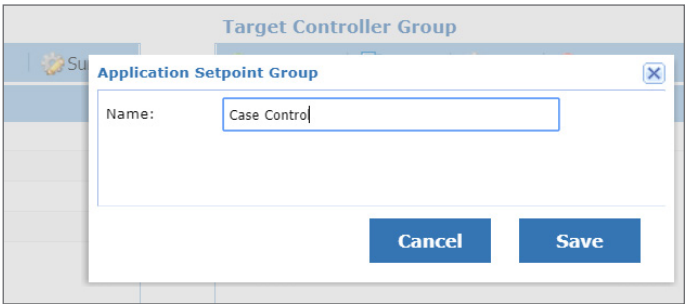
Delete

| Name | Application Type | Protocol Type |
|--|------------------|---------------|
| <input checked="" type="radio"/> time sched... | TimeSchedule | E3 |

Selecting the Target Controller Group

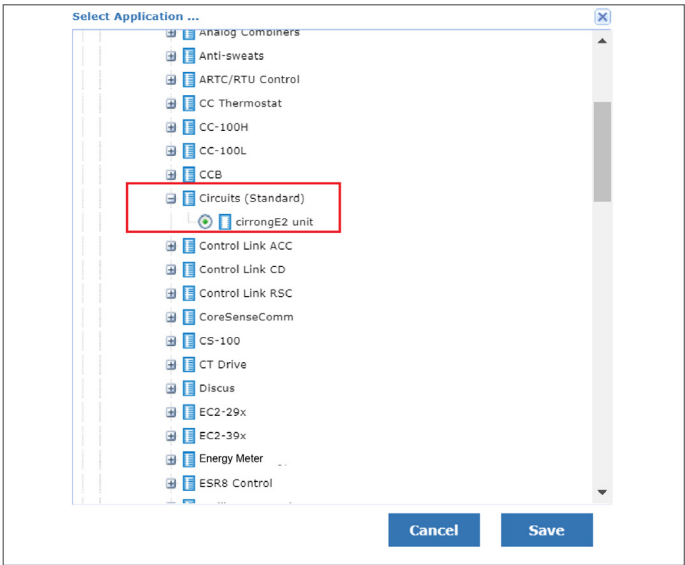
Case Controller Setting Configuration

1. Add a new Circuit (Standard) Application Setpoint Group and provide a name:



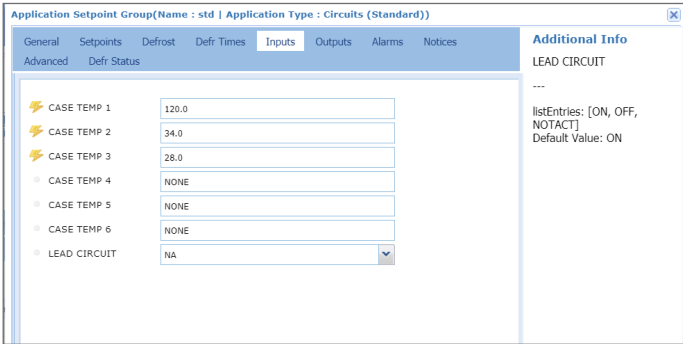
Case Control

2. Select a Circuit (Standard) instance from the simulative tree.



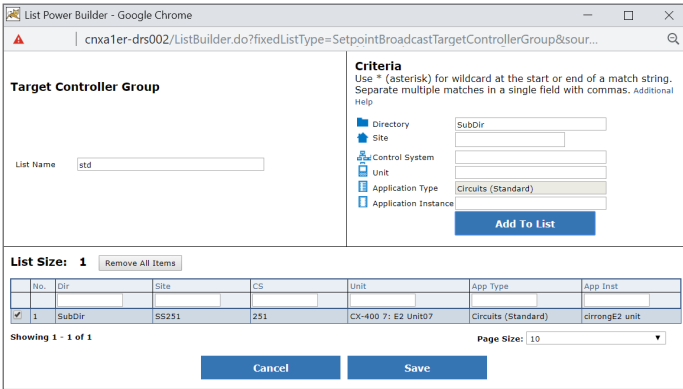
Circuit Standard

3. Click the lightning bolt in front of the point that you wish to broadcast:



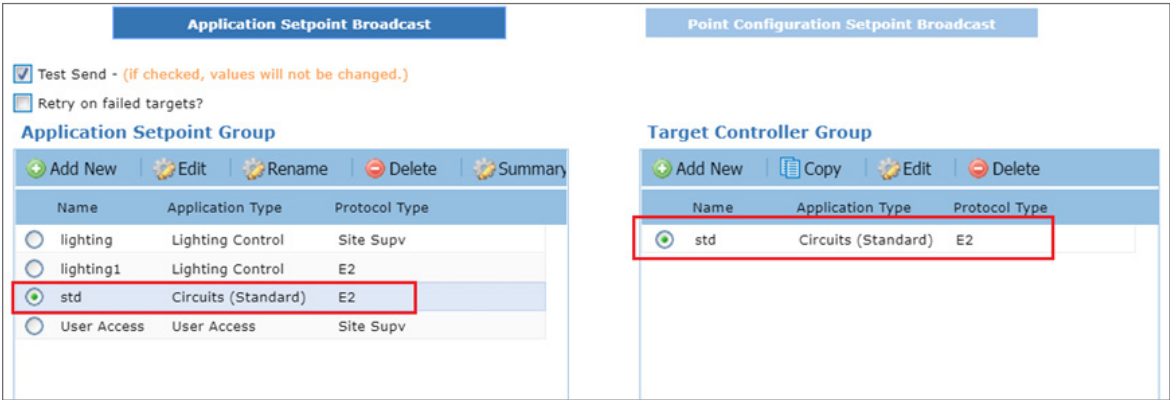
Lead Circuit

4. Select the newly added Circuit (Standard) Application Setpoint Group. Add a new Target Controller Group of Circuit (Standard) from Target Controller Group window, by filtering the Application Type using a Case Controller Type such as Circuit (Standard).



Case Controller Type

5. Select the Target Controller group and click Go. The Circuits will be broadcasted:



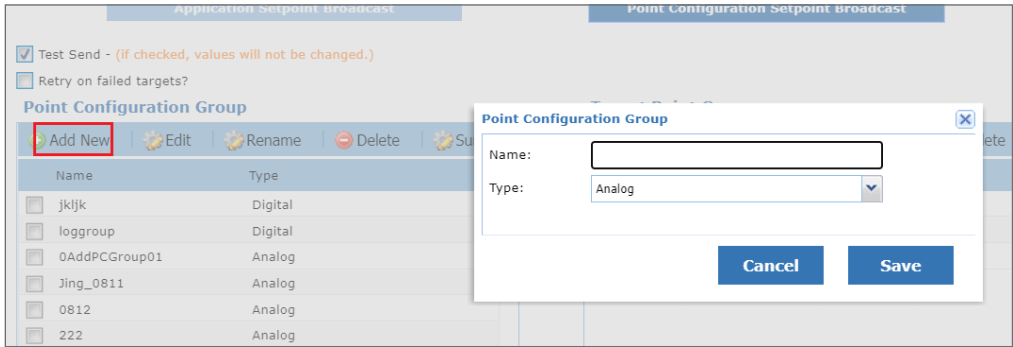
Selecting Target Controller Group

12.6.4 Point Setpoint Broadcast

Point Configuration Broadcast changes the setpoint broadcast approach to sending a point configuration. When the **Point Configuration Broadcast** button is clicked, the Application Setpoint Group changes to Point Configuration Group and Target Point Group. Setpoint Configuration can be configured separately at the point level. Right-click a point in the tree to open the Activity Startup page and the **Point Configuration Group** pop-up where you can enter a name for the point and select **Analog** or **Digital**.

Choose Change Template

Once you have chosen **Point Configuration Broadcast**, click **Add New**:



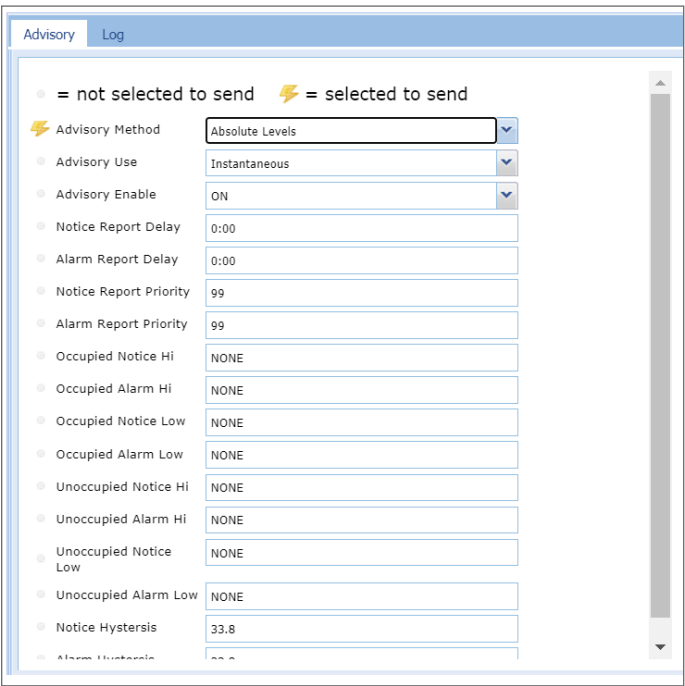
Point Configuration Broadcast

You can choose **Analog** or **Digital** from the **Type** drop-down. Click **Save** to jump to the point selection window to start compiling your Change Template:

Configure Advisory or Log configuration in **Point Configuration Group** page.



Select Point



Configure Advisory

Advisory Log

☐ = not selected to send ⚡ = selected to send

Log Group Cell: -----Disable Logging-----

Average Window: 0:00:00

Control Use: Instantaneous

Log Configuration

After configuration is done, click **Save** and the Change Template is saved using the name you provided:

Application Setpoint Broadcast Point Configuration Setpoint Broadcast

☒ Test Send - (If checked, values will not be changed.)
☐ Retry on failed targets?

Point Configuration Group

| Name | Type |
|---------------|---------|
| jkijk | Digital |
| loggroup | Digital |
| 0AddPCGroup01 | Analog |
| 3ling_0811 | Analog |
| 0812 | Analog |
| 222 | Analog |
| Demo | Analog |

Target Point Group

| Name | Type |
|------|--------|
| 0812 | Analog |
| rrr | Analog |
| test | Analog |

Demo/Analog

Choose Target Controller Group

You can choose existing **Target Point Groups**, or you can **Add New**:

Application Setpoint Broadcast Point Configuration Setpoint Broadcast

☒ Test Send - (If checked, values will not be changed.)
☐ Retry on failed targets?

Point Configuration Group

| Name | Type |
|---------------|---------|
| jkijk | Digital |
| loggroup | Digital |
| 0AddPCGroup01 | Analog |
| 3ling_0811 | Analog |
| 0812 | Analog |
| 222 | Analog |
| Demo | Analog |

Target Point Group

| Name | Type |
|------|--------|
| 0812 | Analog |
| rrr | Analog |
| test | Analog |

Adding New Target Point Group

Provide a **Target Point Group** name and select **Type**. The type could be **Analog**, **Digital**, or both.

Target Point Group

Name: Demo

Type: Analog

Cancel Save

File Naming

Click **Save** and then choose a target point for broadcast.

Target Point Group (Name : Demo | Type : Analog)

Site Directories

- 0AIAAlarmDirectoryIPX15
- 0ModifyAna
- 0RestoreInTM
- A
 - A
 - UFF
 - ULO5 W
 - SiteSupervisor
 - CX400 C-Store:E2 Unit04
 - Air Handlers (AHUs)
 - Anti-sweats
 - ARTC/RTU Control
 - Circuits (Case Ctrl)
 - Circuits (Standard)
 - CT Drive
 - EC2-29x
 - Enhanced Suction

Cancel Save

Choosing Target Point

Save the **Target Controller Group** as an entry:

Application Setpoint Broadcast Point Configuration Setpoint Broadcast

☒ Test Send - (If checked, values will not be changed.)
☐ Retry on failed targets?

Point Configuration Group

| Name | Type |
|---------------|---------|
| jkijk | Digital |
| loggroup | Digital |
| 0AddPCGroup01 | Analog |
| 3ling_0811 | Analog |
| 0812 | Analog |
| 222 | Analog |
| Demo | Analog |

Target Point Group

| Name | Type |
|------|--------|
| Demo | Analog |
| 0812 | Analog |
| rrr | Analog |
| test | Analog |

Changing Template and Target Point Group

Choose **Change Template** and **Target Point Group** and Click **Go** (Run Now) or **Apply** (Run on Schedule).

12.6.5 Review Setpoint Broadcast Schedule

You can review your Setpoint Broadcast Schedule with the **Schedule Assistant**. Select **Setpoint > Setpoint Broadcast > Configure Setpoint Broadcast**:

Schedule Manager

All schedules are based on the server's time zone: (GMT -05:00) Eastern Standard Time - America/New_York (EST) (DST)

Schedule Assistant

Show System Schedules

Show 25

Add New

Reset Filters

| Name | Type | User | Schedule | Next Run Time | Last Run Time | Last Status |
|---------------|--------------------|------------|---------------|---------------|-----------------|-------------|
| | Setpoint Broadcast | | | | | All |
| Sample AHU KT | Setpoint Broadcast | jmittchell | One Time Only | | 6/6/19 2:30 PM | Completed |
| Test | Setpoint Broadcast | fding | One Time Only | | 8/21/19 6:11 PM | Completed |

Schedule Assistant

You will see a calendar-based schedule for clarification:

Schedule Manager

All schedules are based on the server's time zone: (GMT -05:00) Eastern Standard Time - America/New_York (EST) (DST)

Schedule Summary List

Schedule Assistant

<>

Dec 1 - 7 2019

month

week

day

Name

Type

Setpoint Broad

User

Status

All

Go

| | Sun 12/1 | Mon 12/2 | Tue 12/3 | Wed 12/4 | Thu 12/5 | Fri 12/6 | Sat 12/7 |
|-----|----------|----------|----------|----------|----------|----------|----------|
| 1am | | | | | | | |
| 2am | | | | | | | |
| 3am | | | | | | | |
| 4am | | | | | | | |
| 5am | | | | | | | |
| 6am | | | | | | | |
| 7am | | | | | | | |
| 8am | | | | | | | |

Schedule Summary

12.6.6 Review Setpoint Broadcast History

Select **Setpoints > Setpoint Broadcast > Setpoint Broadcast History** from the top menu to view the Setpoint Broadcast activity history result.

Site Directories / Setpoints / Setpoint Broadcast / Setpoint Broadcast History

Setpoint Broadcast Activity History - Results

Occurrence Date Custom Range

from 11/01/20 to 03/23/21

Go

Show 25

Reset Filters

Refresh Setpoint Broadcast History

| Name | Started | Duration | User | Result | Setpoint Broadcas... | Revert |
|--------------------|-------------------|----------|----------|-----------|----------------------|--------------------|
| Test Events Revert | 1/15/21 11:49 AM | 00:00:05 | Mitchell | Completed | | Show Detail Revert |
| SS Test DG | 12/22/20 11:21 AM | 00:15:08 | Mitchell | Failed | | Show Detail |

Schedule Broadcast Activity Result

Click the **Show Detail** button to see the points detail which has been broadcasted.

Site Directories / Setpoints / Setpoint Broadcast / Setpoint Broadcast History

Setpoint Broadcast Activity History - Results

Occurrence Date Custom Range from 11/01/20 to 03/23/21 Go Show 25

Reset Filters Refresh Setpoint Broadcast History

| Name | Started | Duration | User | Result | Setpoint Broadcas... | Revert |
|--------------------|-------------------|----------|----------|-----------|----------------------|--------|
| Test Events Revert | 1/15/21 11:49 AM | 00:00:05 | Mitchell | Completed | Show Detail | Revert |
| SS Test DG | 12/22/20 11:21 AM | 00:15:08 | Mitchell | Failed | Show Detail | |

Show Details

- Changed From: The original value of the point
- Changed To: The target value of the point.
- Test Send Only: If theTest Send is **Yes**, that means the activity is executed to connect the device and retrieve any information needed to test for valid points, but the value will not actually change.

12.6.7 Revert Setpoint Broadcast

If the user wants to revert the points value which has been broadcasted, click the **Revert** button of the activity.

Site Directories / Setpoints / Setpoint Broadcast / Setpoint Broadcast History

Setpoint Broadcast Activity History - Results

Occurrence Date Custom Range from 11/01/20 to 03/23/21 Go Show 25

Reset Filters Refresh Setpoint Broadcast History

| Name | Started | Duration | User | Result | Setpoint Broadcas... | Revert |
|--------------------|-------------------|----------|----------|-----------|----------------------|--------|
| Test Events Revert | 1/15/21 11:49 AM | 00:00:05 | Mitchell | Completed | Show Detail | Revert |
| SS Test DG | 12/22/20 11:21 AM | 00:15:08 | Mitchell | Failed | Show Detail | |

Revert

The **Revert** button will only show when broadcast activity is completed or partially completed.
After clicking the **Revert** button, it will jump to **Revert Activity** page.

Revert Activity

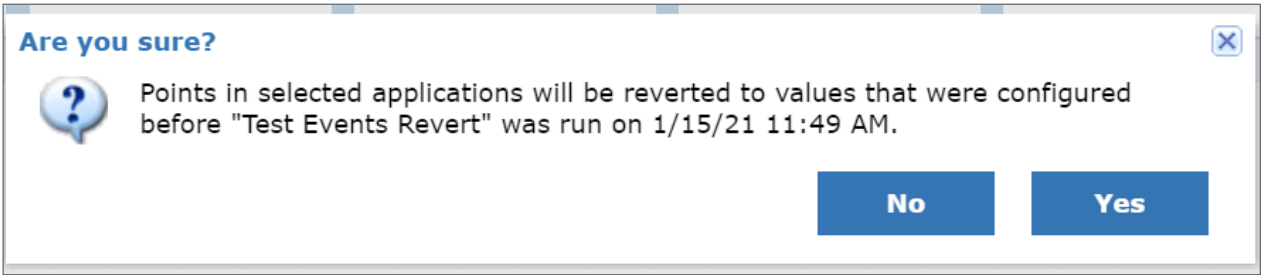
Cancel Revert Changes

Reset Filters

| | Application Instance | Directory | Site | Control System | Unit | Application Type |
|-------------------------------------|----------------------|-----------|-------|----------------|--------------|------------------|
| <input checked="" type="checkbox"/> | SCH 70% Lights | Demo | 00211 | SS | CX:LabSS 152 | TimeSchedule |
| <input type="checkbox"/> | Store Hours | Demo | 00211 | SS | CX:LabSS 152 | TimeSchedule |
| <input type="checkbox"/> | Site Lights | Demo | 00211 | SS | CX:LabSS 152 | TimeSchedule |

Revert Activity

You can check the check box in front of each item (Revert activity is based on application instance level, you should revert all the broadcasted points value of selected application instance. It will not able to select one point to revert), then click **Revert Changes** button, a confirmation message will appear. Click **Yes** to continue the revert.



Once the revert is completed, the reverted instance will be disappeared from Revert Activity table. The **Revert** button in the **Setpoint Broadcast Activity** page will show as **Partially Reverted** or **Reverted after reverting**.

| Reset Filters Refresh Setpoint Broadcast History | | | | | | |
|--|-------------------|----------|----------|-----------|------------------------|--------------------|
| Name | Started | Duration | User | Result | Setpoint Broadcast ... | Revert |
| Test Events Revert | 1/15/21 11:49 AM | 00:00:05 | Mitchell | Completed | Show Detail | Partially Reverted |
| SS Test DG | 12/22/20 11:21 AM | 00:15:08 | Mitchell | Failed | Show Detail | |

| Reset Filters Refresh Setpoint Broadcast History | | | | | | |
|--|-------------------|----------|----------|-----------|------------------------|----------|
| Name | Started | Duration | User | Result | Setpoint Broadcast ... | Revert |
| Test Events Revert | 1/15/21 11:49 AM | 00:00:05 | Mitchell | Completed | Show Detail | Reverted |
| SS Test DG | 12/22/20 11:21 AM | 00:15:08 | Mitchell | Failed | Show Detail | |

Partially Reverted: It indicates that you just selected a parts of the instances to revert, or the revert activity is partially completed. You can expend "+" of activity to view the detail.

Reverted: Indicate all the points of the broadcasted instances have been reverted.

NOTE: User access of Site Supervisor and E3 cannot be reverted.

12.7 Schedule Controller Activity

When you perform an activity from the Navigation Tree/Graphical Screen/Watch Point right-click menu, you start a Run Once activity. You can also schedule a recurring controller activity from the top **Header Menu > Activity**. You can add a new Schedule by accessing **Schedule Manager > Add New**.

12.7.1 Add a New Schedule

Activity Startup

Run Now

Run On Schedule

Details

Type: Retrieve Logs

Configuration

Site Directories

A

A TechSupport

A Refrigeration Service

Asia Demo

D

Demo

00211

0219 Xian

100 Kennesaw

Suite 100

1: HVAC

3: SUITE 170

TechSupport

Get Logs By:

Filtering Rules

Lists

General Points

Filtering Rules:

Unit Rules

Alarm/Advisory Setup

Flexible Combiner

General Setup

Global Data

HVAC Zones

Logging Groups

Physical AI

Physical DO

Remote Dialout Setup

Sensor Control DV

TRNBCT-RS

Time Schedules

Time and Date

User Access Levels

Add a New Schedule

When adding a new schedule, you can choose **Run Now**. The activity would just run once.

Activity Startup

Run Now

Run On Schedule

Details

Type: Retrieve Logs From List

Configuration

List Power Builder

Get Logs By:

Filtering Rules

Lists

General Points

All Lists

AHU List

REF Points

Go

Activity Startup

You can also choose **Run On Schedule** and specify the days/hours that you want this activity to run.

12.7.2 Schedule Manager

When you choose **Run On Schedule**, you will need to fill in the schedule name and choose the desired activity type. Configure the activity start/end time under schedule section. You will notice that the time zone is displayed as the server time zone, but pre-filled Start Date/Time is your browser time when you open this page. You need to configure a future time based on your browser time to make sure the schedule can be configured successfully.

Schedule Manager

All schedules are based on the server's time zone: (GMT -06:00) Central Standard Time - America/Chicago (CST) (DST)

Run Now

Run On Schedule

Details

Enabled: ☒

Name:

Type:

Schedule

One Time Only - (GMT -06:00) Central Standard Time - America/Chicago (CST) (DST)

Run Once

Interval Based

Calendar Based

Start Date/Time:

Will only run once at this date/time.

Notification

☐ On Success

☐ On Unsuccessful

Schedule Manager

After completing the configuration, you will see your schedule on the Schedule Manager table. In this table, the schedule's **Next Run Time** will be converted to the server time based on the configuration you configured above.

Schedule Manager

All schedules are based on the server's time zone: (GMT -06:00) Central Standard Time - America/Chicago (CST) (DST)

☐ Show System Schedules

Reset Scheduler

Delete All

Add New

Edit

Delete

Disable

Run Now

Reset Filters

| Name | Type | User | Schedule | Next Run Time | Last Run Time | Last Status |
|--------|--------|---------------|---------------|------------------|---------------|-------------|
| Backup | Backup | administrator | One Time Only | 8/21/24, 3:55 AM | | All |

View Schedule

12.7.3 Schedule Assistant

Schedule Manager

All schedules are based on the server's time zone: (GMT -05:00) Eastern Standard Time - America/New_York (EST) (DST)

Schedule Summary List

Schedule Assistant

<> Apr 26 - May 2 2020

monthweekday

Name

TypeAll

User

StatusAll

Go

| | | | | | | | |
|------|-------------------|-------------------|-------------------|-------------------|-------------------|----------------|---|
| | Sun 4/26 | Mon 4/27 | Tue 4/28 | Wed 4/29 | Thu 4/30 | Fri 5/1 | Sat 5/2 |
| 12am | | | | | | | |
| 1am | | | | | | | |
| 2am | FQR Demo engadmin | FQR Demo engadmin | FQR Demo engadmin | FQR Demo engadmin | FQR Demo engadmin | FQR Demo | FQR Demo engadmin |
| 3am | | | | | | | |
| 4am | | | | | | | |
| 5am | | | | | | | |
| 6am | | | | | | | |
| 7am | M-Data 100 Kns | M-Data 100 Kns | M-Data 100 Kns | M-Data 100 Kns | M-Data 100 Kns | M-Data 100 Kns | M-Data Logs administrator 100 Kns Energy Logs administrator |
| 8am | | | | | | | |
| 9am | | | | | | | |
| 10am | | | | | | | |
| 11am | | | | | | | |
| 12nm | | | | | | | |

Schedule Assistant

12.8 View Activities Status

You can check the Activity Status in Activity History whether the activity is started from any menu or if it is **Run Once** or **Run On Schedule**. You can access Activity History from the top menu or right-click menu at each Navigation Tree Level.

Occurrence Date

Past 7 Days

Show

25

Reset FiltersRefresh Activity History

| Activity | Started | Duration | User | Target | Result | Exceptions Report |
|----------------------------|----------------|----------|---------------|--------------------|---------------|-------------------|
| All | | | | | All | |
| Get Point Values | 5/1/20 9:59 PM | 00:06:15 | switch switch | A M | ⊗ Canceled | |
| Get Point Values | 5/1/20 9:44 PM | 00:06:15 | switch switch | A M | ⊗ Canceled | |
| Get Point Values | 5/1/20 9:29 PM | 00:06:15 | switch switch | A M | ⊗ Canceled | |
| Get Point Values | 5/1/20 9:14 PM | 00:06:10 | switch switch | A M | ⊗ Canceled | |
| Refresh Point List | 5/1/20 9:12 PM | 00:01:20 | Fan | 16A1-1 | ✔ Completed | |
| Refresh Applications | 5/1/20 9:12 PM | 00:00:04 | Fan | SF:Kennesaw | ✔ Completed | |
| Get Point Values | 5/1/20 8:59 PM | 00:06:55 | switch switch | A M | ⊗ Canceled | |
| Terminal Mode | 5/1/20 8:58 PM | 01:08:06 | Fan | SF:Kennesaw | ⚙ In progress | |
| Initializing Terminal Mode | 5/1/20 8:58 PM | 00:00:01 | Fan | SF:Kennesaw | ✔ Completed | |
| Get Diagnostic Information | 5/1/20 8:56 PM | 00:00:01 | Fan | BX-400 1: HVAC/LTS | ✔ Completed | |
| Get Diagnostic Information | 5/1/20 8:56 PM | 00:00:00 | Fan | BX-400 1: HVAC/LTS | ✔ Completed | |
| Get Diagnostic Information | 5/1/20 8:56 PM | 00:00:01 | Fan | BX-400 1: HVAC/LTS | ✔ Completed | |
| Get Diagnostic Information | 5/1/20 8:56 PM | 00:00:02 | Fan | BX-400 1: HVAC/LTS | ✔ Completed | |
| Get Diagnostic Information | 5/1/20 8:55 PM | 00:00:02 | Fan | BX-400 1: HVAC/LTS | ✔ Completed | |

Page 1 of 50

Export

Not Completed

Activity History with details

Displaying activities 1 - 25 of 1250

Pending Activities

Table 10: View Activities Status

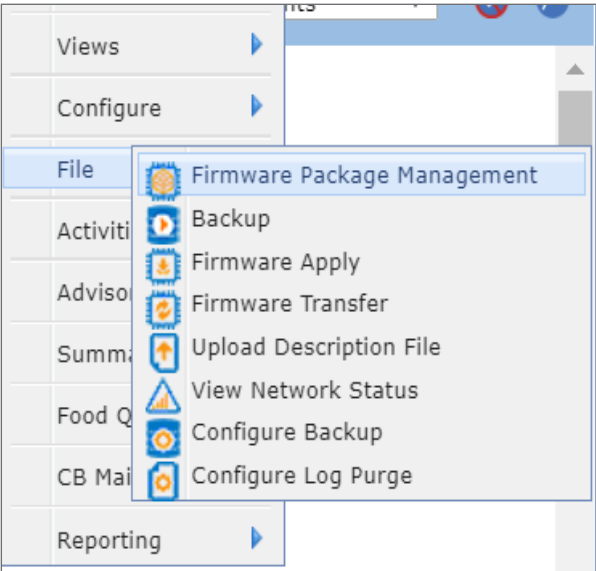
| Field Name | Description |
|------------------|--|
| Activity | An activity includes all system and user-performed activities in Connect+. You may see some activities you that may not have been performed, such as Get Point Value. These activities can be called by other activities that have been performed such as Retrieve Logs. |
| Started | Time when the activity has been started. |
| Duration | How long it takes Connect+ to perform the activity. |
| User | Who performed this activity. |
| Target | Directory/Site/Control System/Units/Application Type/Application/Points ***see below explanation for compound activity with multiple target. |
| Result | In Progress, Complete, Partial Complete, Fail ***see below explanation for Partial Complete. |
| Exception Report | When activities are partially complete or have failed, this report will include the reason for diagnosis. |

Tips: Certain Activities are compound activity. For compound activities, you can expand the parent activity to check each children activity's Target and Result. For example, Obtain Controller Information is an activity that contains Refresh Units, Refresh Application, and Refresh Point Lists. If you start Obtain Controller Information at the Directory Level, it will then apply to any site and controller. You would see and expanded list of sub-activities with Targets and Results. If any sub-activities have failed, the parent activity Result would be partially complete.

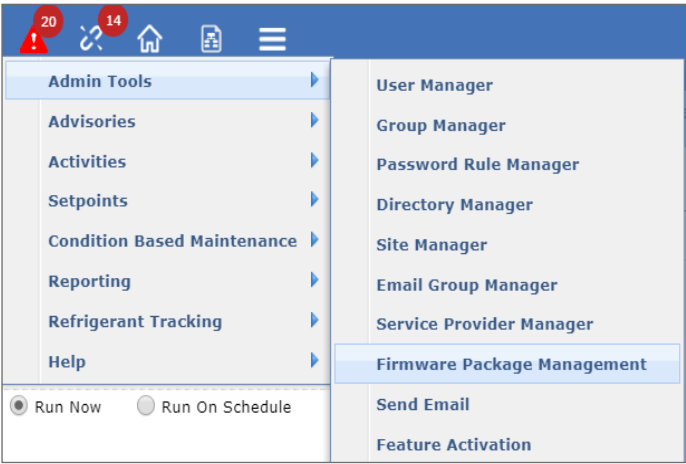
13. Firmware Update

13.1 Firmware Management

Before updating the firmware, firmware and language packages on the Connect+ server can be uploaded and/or deleted from **File > Firmware Package Management** at the Control System level on the navigation tree or **Admin Tools > Firmware Package Management**.



Firmware Package Management Menu



Firmware Package Management

The Firmware Package Manager page comprises the **Firmware Packages** and **Language Packages** tables where you can upload and/or delete firmware and language packages on the Connect+ server. Once the package is uploaded, it will be kept in the server until you manually delete it. You can update Firmware Package for E2, Site Supervisor and E3 and XWEB. Note that the Language Package is only available for E2 controllers with firmware versions 4.05 and above.

Firmware Package Manager

Firmware Packages

Add New

| | Firmware Version ▲ | Controller Type | Firmware Package Name | Language Description | Language Identifier |
|--------------------------|--------------------|-----------------|---|----------------------|---------------------|
| <input type="checkbox"/> | 2.06B22 | Site Supv | Site Supv_150002964Jun062018_firmware | | |
| <input type="checkbox"/> | 2.11F02 | Site Supv | Site Supv_142445814Dec162019_firmware | | |
| <input type="checkbox"/> | 3.07F02 4.07F02 | E2 | E2_044719933Apr132019_firmware.pkg | English | 1 |
| <input type="checkbox"/> | 3.08F03 4.08F03 | E2 | E2_035754825Apr172019_firmware.pkg | English | 1 |
| <input type="checkbox"/> | 3.09F04 4.09F04 | E2 | E2_111035434Oct012019_firmware.pkg | English | 1 |
| <input type="checkbox"/> | 3.10F01 4.10F01 | E2 | E2_140119647May052020_firmware.pkg | English | 1 |
| <input type="checkbox"/> | 5.1.2.LIDL.11 | XWEB Server EVO | XWEB_Server_EVO_095755018May112018_firmware.zip | | |

Language Packages(E2 4.05 and above)

Add New

| | Package Version ▲ | Controller Type | Package Name | Language Description |
|--|-------------------|-----------------|--------------|----------------------|
|--|-------------------|-----------------|--------------|----------------------|

No Firmware Package File...

Firmware Package Manager

Add Firmware

Click **Add New** to upload a firmware package to Connect+.

Firmware Package Manager

Firmware Packages

+

Add New

| | Firmware Version ▲ | Controller Type | Firmware Package Name | Language Description | Language Identifier |
|--------------------------|--------------------|-----------------|---|----------------------|---------------------|
| <input type="checkbox"/> | 2.06B22 | Site Supv | Site Supv_150002964Jun062018_firmware | | |
| <input type="checkbox"/> | 2.11F02 | Site Supv | Site Supv_142445814Dec162019_firmware | | |
| <input type="checkbox"/> | 3.07F02 4.07F02 | E2 | E2_044719933Apr132019_firmware.pkg | English | 1 |
| <input type="checkbox"/> | 3.08F03 4.08F03 | E2 | E2_035754825Apr172019_firmware.pkg | English | 1 |
| <input type="checkbox"/> | 3.09F04 4.09F04 | E2 | E2_111035434Oct012019_firmware.pkg | English | 1 |
| <input type="checkbox"/> | 3.10F01 4.10F01 | E2 | E2_140119647May052020_firmware.pkg | English | 1 |
| <input type="checkbox"/> | 5.1.2.LIDL.11 | XWEB Server EVO | XWEB_Server_EVO_095755018May112018_firmware.zip | | |

Adding Firmware

You can select E2, Site Supervisor and E3, or XWEB from **Select Controller Type** drop-down. Choose a firmware file to upload by clicking the **Browse** button on the **Add Firmware Package** window and select the desired file from the **File Upload** window.

Firmware Package Manager

Add Firmware Package

Select an existing local file to upload to Connect+

Select File To Upload:

Browse...

No file selected.

Select Controller Type:

E2

Cancel

Add New

Select Controller Type

You should upload a package file with the correct extension filename. Note that the extension of E2 package is .pkg., XWEB package extension is .zip., and the Site Supervisor and E3 package file does not have an extension, For example, SS_2.14A10_Firmware_Update. You might download the Site Supervisor and E3 package as the zip file, please unzips it before uploading it to Connect+.

After upload, you can see the uploaded package with firmware version and controller type listed in the table.

If the name extension is incorrect, a pop-up window will be displayed with the error message.

Delete Firmware

The delete firmware package function allows firmware package files to be removed from the Connect+ file system and database.

To remove firmware packages from the server, click the check box(es) of the package(s) you wish to delete and click the **Delete** button on the **Firmware Packages** table.

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14

Admin Tools

Advisories

Activities

Setpoints

Condition Based Maintenance

Reporting

Refrigerant Tracking

Help

Run Now

Run On Schedule

User Manager

Group Manager

Password Rule Manager

Directory Manager

Site Manager

Email Group Manager

Service Provider Manager

Firmware Package Management

Send Email

Feature Activation


Firmware Package Management

After deleting, the package will be removed from table.

Add Language File:

You can click **Add New** to upload a language package in Language Package table for E2.

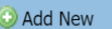
Language Packages(E2 4.05 and above)

| | | | | |
|---|-------------------|-----------------|--------------|----------------------|
|  | Package Version ▲ | Controller Type | Package Name | Language Description |
| No Firmware Package File... | | | | |

Adding Language File

After upload, you can see package with language is displayed in the table.

Language Packages(E2 4.05 and above)

| | | | | |
|---|-------------------|-----------------|---------------------------------|----------------------|
|  | Package Version ▲ | Controller Type | Package Name | Language Description |
| <input type="checkbox"/> | 4.05B05 | E2 | E2_033155730May122020_pt-PT.pkg | Portuguese |
| <input type="checkbox"/> | 4.05B05 | E2 | E2_033141661May122020_it-IT.pkg | Italian |

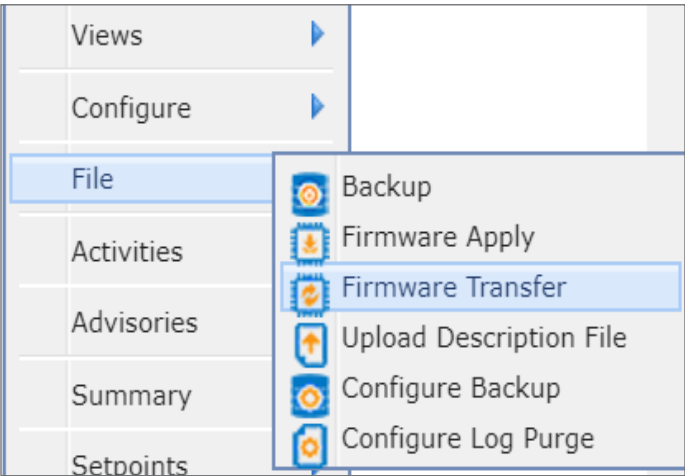
Language Description

Delete Language File:

To remove firmware packages from the server, click the check box(es) of the language package(s) you wish to delete and click the **Delete** button on the **Firmware Packages** table.

13.2 Firmware Transfer

The Firmware Transfer process delivers the firmware files to the units in a control system and/or up-dates language package files of units. A Firmware Transfer can be started from a Directory, Site, or a Control System in the navigation tree **File > Firmware Transfer** or Firmware Transfer can be scheduled.



Firmware Transfer

Firmware Transfers may be scheduled, but will be on a non-recurring, one-time schedule only. This is because the controller can only keep one package, and once a package is transferred, it remains on the controller until it is applied. If you transfer another package before applying it, the previous package will be overwritten. So they will need to be configured in Schedule Manager each time when running on a schedule.

At the start of the Firmware Transfer, a Control System Inventory will be performed on the Control System(s) selected for Firmware Transfer.

If you have grouped controllers, the firmware will be transferred to the gateway unit, and then the gateway unit will be instructed to transfer to any other units that are members of the control system, one at a time.

Firmware transfer will not apply for XWEB. XWEB only needs to execute Firmware Apply to update the firmware version.

Activity Startup

☒ Run Now
 ☐ Run On Schedule

Details

Type:

Firmware Transfer

Configuration

☒ Site Directories

☐ A

☐ A

☐ A

☐ A

☐ D

☒ Demo

☒ 00211

☒ SS

☒ 0219

☒ 100

☒ 152

Firmware Transfer Selections

☒ Perform Firmware Transfer

Firmware Selection:

Select Firmware File

Downgrade Allowed:

No

Language Package Options

☐ Update Language Package

Language Package:

Select Language Package

Activity Startup

Firmware Transfer Selections:

Perform Firmware Transfer is checked by default. You can select the appropriate firmware package under the **Firmware Selection** drop-down list; this package is uploaded in **Firmware Package Management** as covered in the previous section.

Firmware Transfer Selections

☒ Perform Firmware Transfer

Firmware Selection:

Select Firmware File

Downgrade Allowed:

No

Firmware Transfer Selection

If the firmware selection is a downgrade for the selected control system, and it is acceptable for the downgrade to occur, select **Yes** from the **Downgrade Allowed** drop-down list. If **No** is selected and the firmware transfer is a downgrade for the control system, the firmware transfer will not occur. As a precaution, a warning will appear in the Activity History page when a unit is receiving a package that will be a downgrade to its firmware.

Language Package Options:

If you wish to run a language file update simultaneously with a firmware transfer, enable the **Update Language Package** check box under **Language Package Options**, and then select the language file to update from the Language Package drop-down list (all language package file names on the server will display in this list):

Language Package Options

☐ Update Language Package

Language Package:

Select Language Package

Language Package Options

If you wish to perform a language package update only, disable the Perform Firmware Transfer check box. After the configuration is complete, click **Go** to execute the activity. The Activity Status page will open and show the progress of the activity:

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| Firmware Transfer In Progress 0% | |
|---|----------------------|
| Target : Directory | Demo |
| Started | 5/13/20 9:57 AM |
| Duration | 5 seconds |
| StartMethod | On Demand |
| User | System Administrator |
| Hide Details | |
| <small> List of Control Systems Requesting Firmware Transfer: Control System: Firmware transfer supports protocol: Site Supv, control system will be processed. 1 out of 1 control systems will be processed for firmware transfer. Starting on ControlSystem </small> | |

Firmware Transfer Page

Activity Startup

Details

Type: Firmware Apply

Configuration

Site Directories

- ☐ A
- ☐ B
- ☒ Demo
- ☐ Demo
- ☐ 100
- ☐ 152

Firmware Apply Options

Backup Control System before Apply: No

Downgrade Allowed: No

Cancel Apply If Battery Test Failed: Yes

Firmware Selection: Select Firmware File

Activity Startup

The detailed progress of the Firmware Transfer can be monitored from the Activity History page **Top Menu > Activities > Activity History > My Activity History**.

Language package files are transferred from control system to control system. During the update process, Connect+ will check the firmware version of each unit in the target control system if supported and compatible with the language package version. If the unit is supported and compatible, the update will proceed for that unit. Otherwise, the update will be skipped on the unsupported unit and the next unit will be checked for version compatibility. The update process will continue to run until all units in all target control systems have been checked and/or updated.

Controllers must be rebooted, and the language must be selected for the update to take effect.

The **Backup Control System before Apply** drop-down will perform a backup of units in the Control System before the firmware is applied if the option is set to **Yes**. The default value will be **No**.

If **Downgrade Allowed** is set to **Yes**, a warning message will be displayed alerting that the unit(s) existing setpoints will be cleaned out as a result of downgrading the firmware. Click **Proceed** to proceed with the downgrade or **Cancel** to stop.

*** **WARNING: Firmware downgrade clears out all setpoints** ***

Do you wish to proceed ?

Cancel
Proceed

Warning Prompt

13.3 Firmware Apply

A **Firmware Apply** can be started from a Directory, Site, or a Control System in the navigation tree **File > Firmware Transfer**.

| Configure | |
|------------|---|
| File | <ul style="list-style-type: none"> Export Site Info File Backup Backup Site Info File Firmware Apply Firmware Transfer Upload Description File |
| Activities | |
| Advisories | |
| Summary | |
| Setpoints | |

Firmware Apply

Note that the **Cancel Apply If Battery Test Failed** option is only for E2. If it is set to **Yes**, a battery test will be performed on all units prior to applying the firmware. If any unit fails the battery test, the Firmware Apply will automatically be canceled, and the Activity Details report will be updated to show that the apply process was canceled as a result of the battery test failure of the applicable units.

When you execute Firmware Apply for Site Supervisor and E3, you will see **Cancel Apply If Battery Test Failed** option is set to **No** and is non-editable.

Select a firmware version from the **Firmware Selection** drop-down.

When you are ready to initiate the Firmware Apply activity, click **Go**. The activity will begin.

The Firmware Apply activity will connect to the targeted Control System and validate the firmware

file on each controller of the control system. If any firmware file fails validation, the firmware apply for

the target control system will fail and report the failure in the activity history.

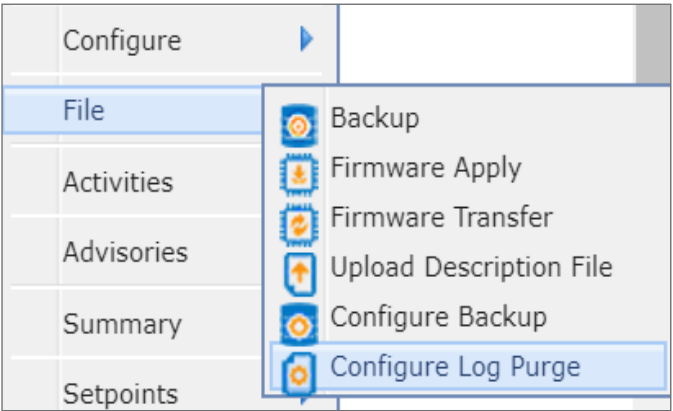
14. Configure Data Retention

When your system runs for a very long time, there might be a great deal of data in your database that can cause your system to run slowly. At this time, you can purge the old and unused data from the database to reduce the database burden.

14.1 Configure Log Purge

Controller point log data is stored in the database but can be deleted with the Configure Log Purge feature. The Log Purge function can help you calculate the old log data based on your configuration or delete the old log data.

The Configure Log Purge page allows you to set parameters for the Log Purge activity. Right-click from any level of the navigation tree, select **File > Configure Log Purge**.



Configure Log Purge

Configure Log Purge

Activity

Item

Configure Log Purge

Directory - Demo

☒

Use default values below which are the global default values.
Enter values specifically for this item:
Directory - Demo
Keep logs forever(do not delete)

- OR -

☐

Enter values specifically for this item:
Directory - Demo
Keep logs forever(do not delete)

☐

Delete logs with date values older than specified number of weeks:
Number of weeks to keep:

☐

Compact log data based on the following rules:
(Note: This function will delete existing data and replace with either an average, minimum or maximum for a given period.)
Data older than:
Based on: Over a Period

Save

Cancel

Log Purge Activity

The default selection is **Keep logs forever (do not delete)**. For this selection, log data will be kept permanently in the database.

You can delete or compact logs by selecting the radio button:

- Delete Logs with date values older than specified number of weeks:

Delete logs with date values older than specified number of weeks:

Number of weeks to keep: 1

Deleting Logs

- Select **Number of weeks to keep** from the drop-down list, 1 to 156 can be selected to keep. After your selection, the system will keep the latest selection week's data and the data older than the configuration will be deleted from database.
- Compact log data based on the following rules:

Compact log data based on the following rules:
(Note: This function will delete existing data and replace with either an average, minimum or maximum for a given period.)

Data older than:

Specified Number of Weeks

Now

Specified Number of Weeks

Number of weeks to keep:

1

Based on:

Average

Average

Maximum

Minimum

Over a

1

Hours

Minutes

Hours

Days

Period

Compact Log Data

- **Data older than:** If Now is selected, logs older than the current date will be compacted based on the rules that you specify thereafter. If Specified **Number of Weeks** is chosen, select a number from the **Number of weeks keep** drop-down. The data older than the specified number of weeks will be compacted.
- **Number of weeks keep:** Select a number (1-156) from the list. This option will hide when the **Data older than** rule is set to Now.
- **Based on:** (the method of compaction)

AVERAGE: Log values for the established time period will be added and the sum of all values will be divided by the number of logs

MAXIMUM: Over the set period of time, the log with the highest (max) value will be stored.

MINIMUM: Over the set period of time, the log with the lowest (min) value will be stored.

Example: Logs recorded were 10, 20, 10, and 10. Compaction by AVERAGE will yield a log value of 12.5. Compaction by MAXIMUM will yield a log value of 20 and a value of 10 if by MINIMUM.

- **Over a/Period:** Logs will be compacted depending on these settings. It can be set as Minutes, Hours or Days. Specify the amount of time for compression of the **Average, Maximum, or Minimum** values. Select a unit of time from the Period drop-down and choose a number from the **Over a** drop-down.

Click **Save** to save the settings and exit or **Cancel** to exit the page without saving.

Example of Compacting Log Data

Data Source: Consider the following log data for compaction.

| Date and Time Recorded | Value |
|------------------------|-------|
| April 1, 2010 12:00pm | 10 |
| April 1, 2010 12:15pm | 20 |
| April 1, 2010 12:30pm | 10 |
| April 1, 2010 12:45pm | 20 |
| April 1, 2010 01:00pm | 40 |
| April 1, 2010 01:15pm | 5 |
| April 1, 2010 01:30pm | 15 |
| April 1, 2010 01:45pm | 35 |
| April 1, 2010 02:00pm | 10 |

Example 1: Assuming that compaction is to be carried out based on the Average and the established time period is 1 hour, the following log values will be stored in the database:

| Date and Time | Reduced Value |
|-----------------------|---------------|
| April 1, 2010 12:00pm | 15 |
| April 1, 2010 01:00pm | 23.75 |

Calculate steps:

- Log values that were recorded for the first hour will be grouped together and compressed by Average. That is: $(10 + 20 + 10 + 20) / 4 = 15$.
- The equivalent value, which is 15, will be stored in the database; old values (10, 20, 10, and 20) will be purged.
- For the next hour, log values will be compressed, $(40 + 5 + 15 + 35) / 4 = 23.75$.
- The compressed value (23.75) will be stored and old values (40, 5, 15, and 35) will be purged.

Example 2: If data compaction is to be carried out based on the Minimum and the established time period is 45 minutes, the source data will be compacted as below result:

| Date and Time | Reduced Value |
|-----------------------|---------------|
| April 1, 2010 12:00pm | 10 |
| April 1, 2010 12:45pm | 5 |
| April 1, 2010 01:30pm | 10 |

Calculate steps:

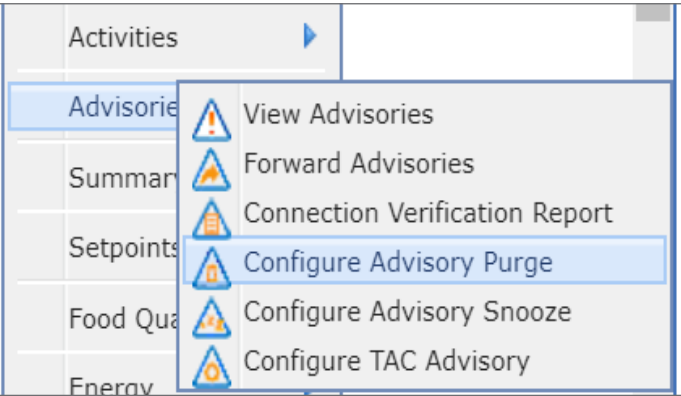
- Log values that were recorded for the first 45 minutes will be grouped together.
- The minimum value in the first 45 minutes, that is 10, will be stored in the database; old values (10, 20, 10) will be purged.
- For the next 45 minutes, log values will be stored as lowest value 5, and old values (20, 40, 5) will be purged.
- For the last 45 minutes, log values will be stored as lowest value 10, and old values (15, 35, 10) will be purged.

Example 3: Same rules apply for compaction by Maximum, the source data will be compacted as below result:

| Date and Time | Reduced Value |
|-----------------------|---------------|
| April 1, 2010 12:00pm | 20 |
| April 1, 2010 12:45pm | 40 |
| April 1, 2010 01:30pm | 35 |

14.2 Configure Advisory Purge

Configure Advisory Purge allows you to set parameters for advisories. Right-click on a navigation tree on directory, site, control system, or unit level and select **Advisories > Configure Advisory Purge** to open the page.



Configure Advisory Purge

The default setting of keeping advisories forever (advisories are never deleted) is the first **Activity Item** on this page and can also be set from the second radio button under "OR".

A screenshot of the 'Configure Log Purge' web page. The page title is 'Configure Log Purge'. Below the title, there's a section for 'Activity Item' with the value 'Directory - Demo'. The page contains several sections for configuration: 1. A section with a radio button and text: 'Use default values below which are the global default values. Enter values specifically for this item: Directory - Demo. Keep logs forever (do not delete)'. 2. An 'OR' separator. 3. Another section with a radio button and text: 'Enter values specifically for this item: Directory - Demo. Keep logs forever (do not delete)'. 4. A section for deleting logs: 'Delete logs with date values older than specified number of weeks: Number of weeks to keep: 1'. 5. A section for compacting log data: 'Compact log data based on the following rules: (Note: This function will delete existing data and replace with either an average, minimum or maximum for a given period.) Data older than: Now. Based on: Average. Over a 1 Hours Period'. At the bottom are 'Save' and 'Cancel' buttons.

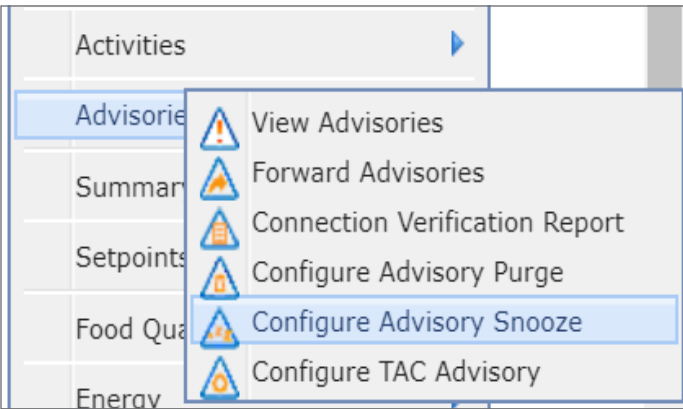
Configure Advisory Purge Page

When selecting the second radio button, you can choose **Specified number of weeks** or **Specified number of months** from **Delete values order than** drop-down list. Once it is selected, **Number of weeks to keep** or **Number of months to keep** field will be displayed. You can enter the number to keep the latest configured weeks or months advisories. Click the **Save** button once the configuration has completed.

The advisory will be purged after the system schedule **AdvisoryPurgeJob** run, and the default schedule will run every 2 hours. You can check the schedule from schedule manager.

14.3 Configure Advisory Snooze

Advisory Snooze Configuration allows you to set an alarm wait time (a Snooze alarm) to reduce the total amount of recurring advisories in the database. Right-click on a navigation tree of each level and select **Advisories > Configure Advisory Snooze** to open the page.



Configure Advisory Snooze

The default setting of keeping advisories forever (advisories are never deleted) is the first **Activity Item** on this page and can also be set from the second radio button under “OR”.

A screenshot of the 'Advisory Snooze Configuration' page. It shows a form with two radio buttons. The first radio button is selected and is labeled 'Use default values below which are the global default values.' Below it are two fields: 'Snooze for duration: Hour(s)' and 'Number of hours to snooze: 6'. The second radio button is labeled '- OR -' and is not selected. Below it is a section for 'Enter values specifically for this item: Directory - Amazon Europe', which includes a 'Snooze for duration:' dropdown menu currently set to 'Never'. At the bottom are 'Cancel' and 'Save' buttons.

Configure Advisory Snooze Page

Snooze configuration will set the snooze time for a historical advisory.

The default configuration is 6 hours. Set your own configuration from the drop-down list under the “OR” section. You can choose **Never, Minute(s) or Hour(s)** from **Snooze for duration** drop-down list. Once it is set as Minute(s) or Hour(s), **Number of minutes to snooze** or **Number of hours to snooze** field will be display. You can enter the number of minutes or hours in the field depending on which one you select. The default value for hours and minutes is **6**.

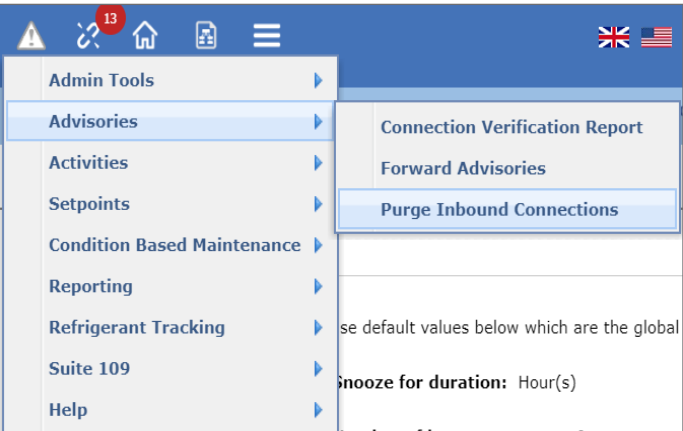
Once sent, a snoozed advisory will not be sent to the monitoring server again until the Snooze has expired and the advisory is still active. The advisory will then be resent to the monitoring server as a new advisory.

Click **Save** to save changes and see the confirmation screen. Click **Cancel** to exit.

14.4 Configure Inbound Connection Purge

Controllers contact Monitoring once a day to verify the controller connection and record connection information in **Connection Verification Report**.

You can choose to purge the records in Connection Verification Report from **Top Menu > Advisories > Purge Inbound Connections**.



Purge Inbound Connections

The default setting of connection purge is **Forever (do not delete)**. It can keep all records for this option.

Purge Inbound Connection Records

Delete values older than:

Forever (do not delete)

Forever (do not delete)

Specified number of weeks

Specified number of months

Cancel

Save

Purge Inbound Connections Records

With the Purge Inbound Connection Records, you can set purge configurations for these inbound connection records. Choose **Specified number of weeks** or **Specified number of months** to keep the latest time period of weeks or months.

If you choose to purge a specific number of connection records, specify either weeks or months from the drop-down list and enter the specific number into the **Number of weeks/months to keep** field. Enter the time of day to remove the older items in the spaces provided and click Save to save changes or **Cancel** to exit the screen.

Purge Inbound Connection Records

Delete values older than:

Specified number of weeks

Number of weeks to keep:

0

Time of day to remove older items:::

AM

Cancel

Save

Purge Inbound Connections Prompt

The inbound connection will be purged after the system schedule **InboundAdvisoryQueueToAdvisoryJob** run, and the default schedule will run every 1 minute. You can check the schedule from schedule manager.

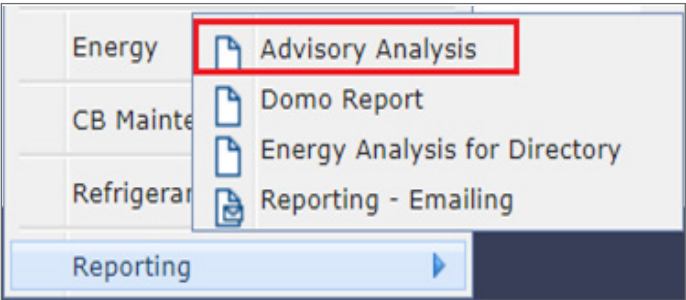
15. Reports

Connect+ has different reports that help you summarize and analysis your data.

Advisory Analysis and **Energy Analysis** reports can provide the intuitive energy consumption and the complete picture of alarm information about the region and site.

Alarm Summary and **Insights Enterprise** reports can analysis the data from a variety of perspectives to help you pinpoint problems quickly. Both reports require additional purchases.

If these reports are not showing for your directory and site, contact your administrator.

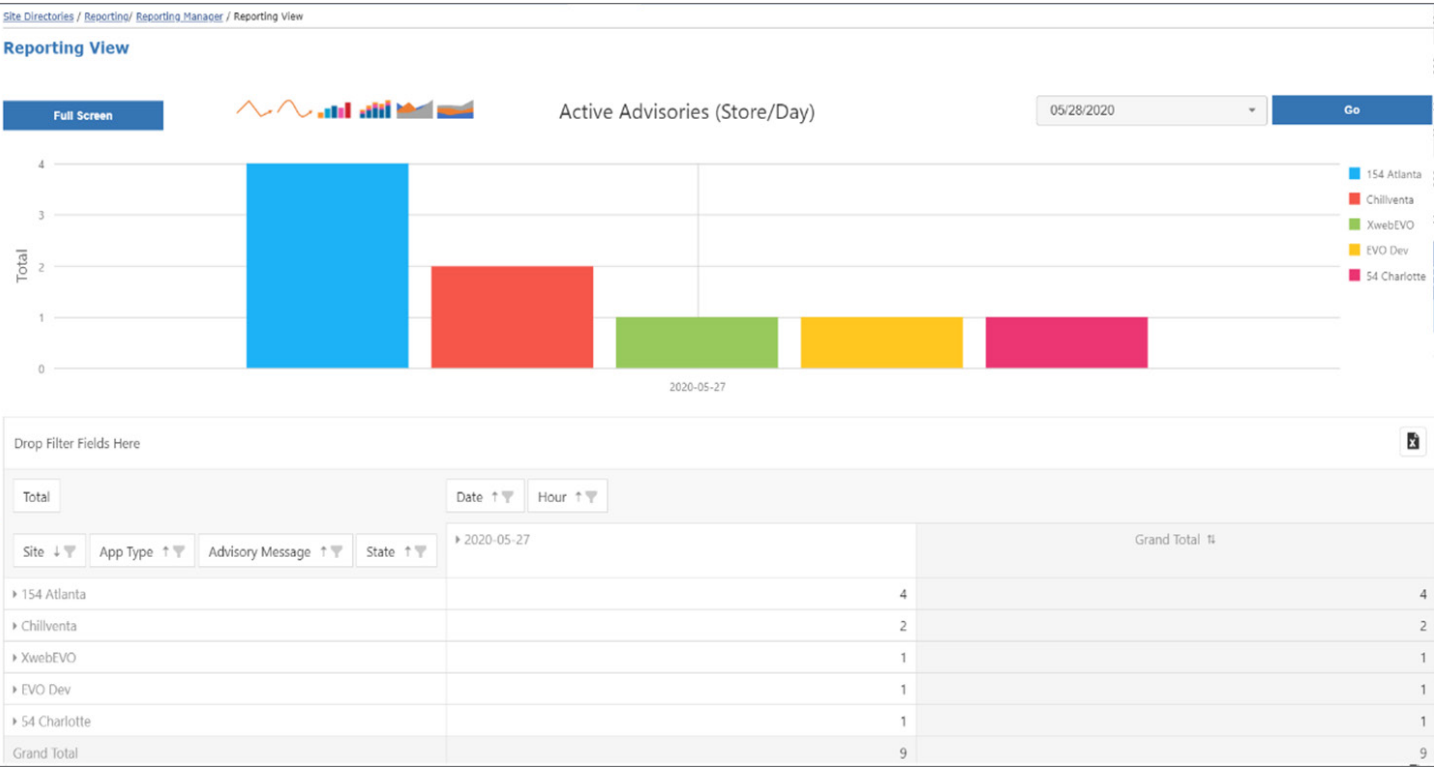


Advisory Analysis

15.1 Advisory Analysis Report


Select **Reporting > Advisory Analysis** from right-click menu of the directory.

You will see the advisories summarized and displayed in the following dashboard. It will show last 24 hours advisories by default.




Reporting View

You can change the date or date range from the date selection field and the report will be displayed according to the selected date range. Chart and the table will be grouped per site per day.

You can change the graph UI by clicking the graph icons. 

And in the table, you could expand the arrow ahead of each item to view next level detail in the table. Filter or sort the column

by clicking the icon next to the column name. 

| Total | | | | Date ↑ ▼ | | Hour ↑ ▼ | | | | | | | | |
|---------------|-----------------------|----------------------------------|-----------|--------------|----|----------|--------------|--------------|--------------|--------------|--------------|--------------|-----------------|--|
| Site ↓ ▼ | App Type ↑ ▼ | Advisory Message ↑ ▼ | State ↑ ▼ | ▼ 2020-05-25 | | | ▶ 2020-05-26 | ▶ 2020-05-27 | ▶ 2020-05-28 | ▶ 2020-05-29 | ▶ 2020-05-30 | ▶ 2020-05-31 | Grand Total ↑ ▼ | |
| | | | | 12 | 18 | 7 | | | | | | | | |
| ▼ 154 Atlanta | ▶ | | | | 1 | | 20 | | | | | | 21 | |
| | ▼ Air Handlers (AHUs) | ▼ Application config has changed | Active | | | | | 1 | | | | | 1 | |
| | ▼ Circuits (Standard) | ▼ Case Temp Hi Limit Exceeded | Active | | | | | 1 | | | | | 1 | |
| | | ▼ Comb Temp Hi Limit Exceeded | Active | | | | | 1 | | | | | 1 | |
| | ▼ Flexible Combiner | ▼ Link to Output bad-no output | Active | | | | 1 | | | | | | 1 | |
| | ▼ Sensor Control DV | ▼ Digital Sensor Alarm | Active | | | | 1 | 1 | | | | | 2 | |
| ▶ Chillventa | | | | 1 | 1 | | 2 | 2 | 2 | 2 | 2 | 1 | 13 ▼ | |

Table View

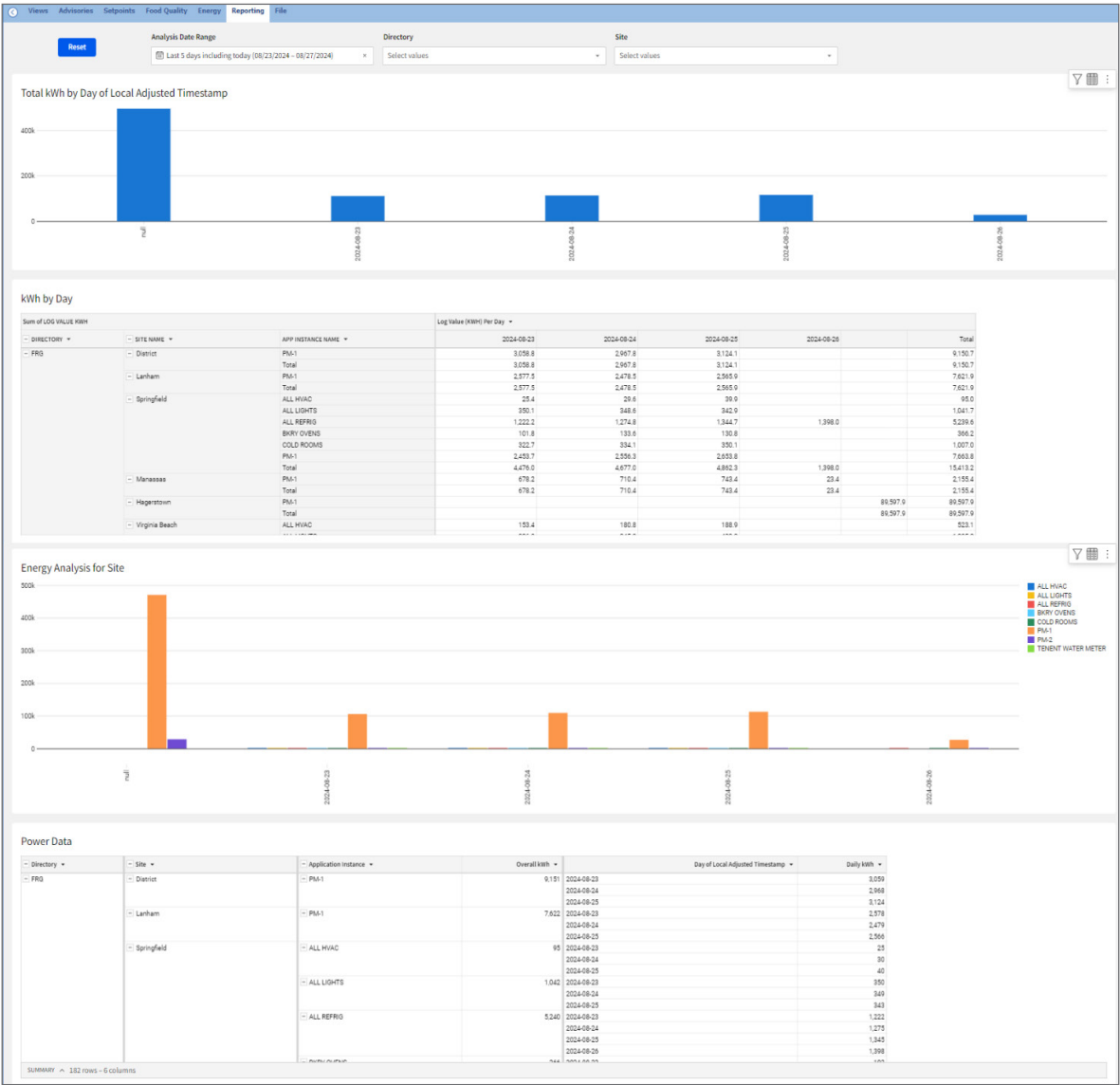
In the report, you might see **Controller Not Sending Alarms since last received time** advisory displayed without App Type. This is because the advisory is generated for the controller, and not for a specific application type.

| | | | | ▼ 2020-05-25 | | |
|---------------|-----------------------|--|-----------|--------------|----|---|
| Site ↓ ▾ | App Type ↑ ▾ | Advisory Message ↑ ▾ | State ↑ ▾ | 12 | 18 | 7 |
| ▼ 154 Atlanta | ▶ | | | | 1 | |
| | ▼ Air Handlers (AHUs) | ▼ Application config has changed | Active | | | |
| | ▼ Circuits (Standard) | ▼ Case Temp Hi Limit Exceeded | Active | | | |
| | | ▼ Comb Temp Hi Limit Exceeded | Active | | | |
| | ▼ Flexible Combiner | ▼ Link to Output bad-no output | Active | | | |
| | ▼ Sensor Control DV | ▼ Digital Sensor Alarm | Active | | | |
| ▼ Chillventa | ▼ | ▶ Controller Not Sending Alarms since last received time | | 1 | | 1 |

Controller Not Sending Alarms Message

15.2 Energy Analysis Report

The Energy Analysis Report is available from the directory and site levels. Right-click on directory or site, select **Reporting > Energy Analysis Report for Directory** or **Energy Analysis Report for Site**.



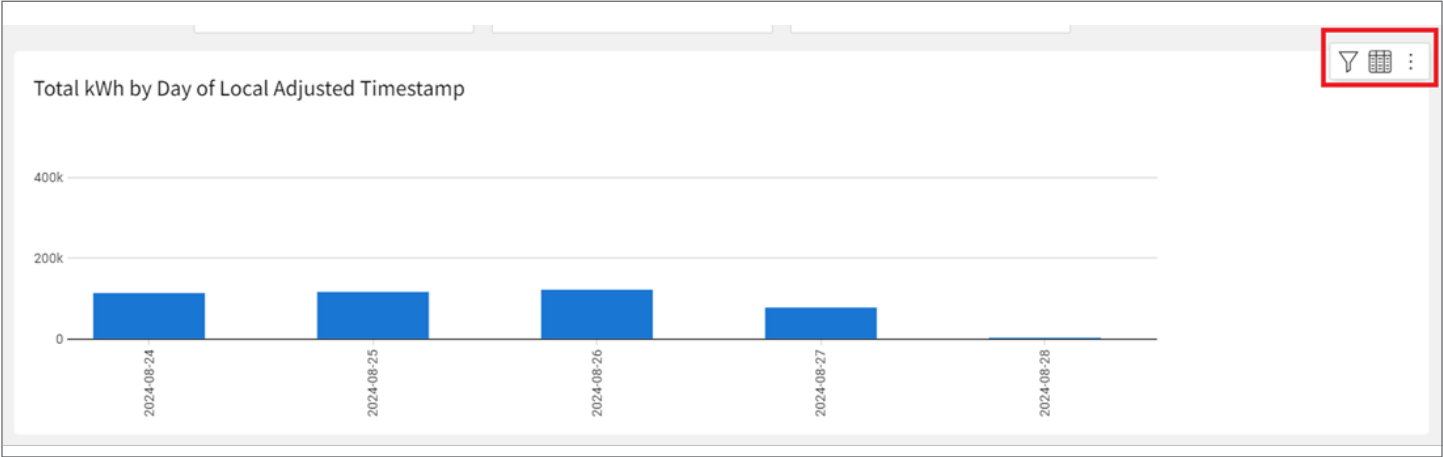
Energy Analysis Report

The report presents data through charts and tables. Bar charts shows the summary of energy data for each date, and you can view detailed daily data for each application instance at each site in the table. You can filter the date, directory and site from the top of the report, and reset them by clicking the **Reset** button if needed.



Data Filter

Hover on the upper right corner of each graph or table, you can filter, sort, export or customize the configuration by selecting the action menu.



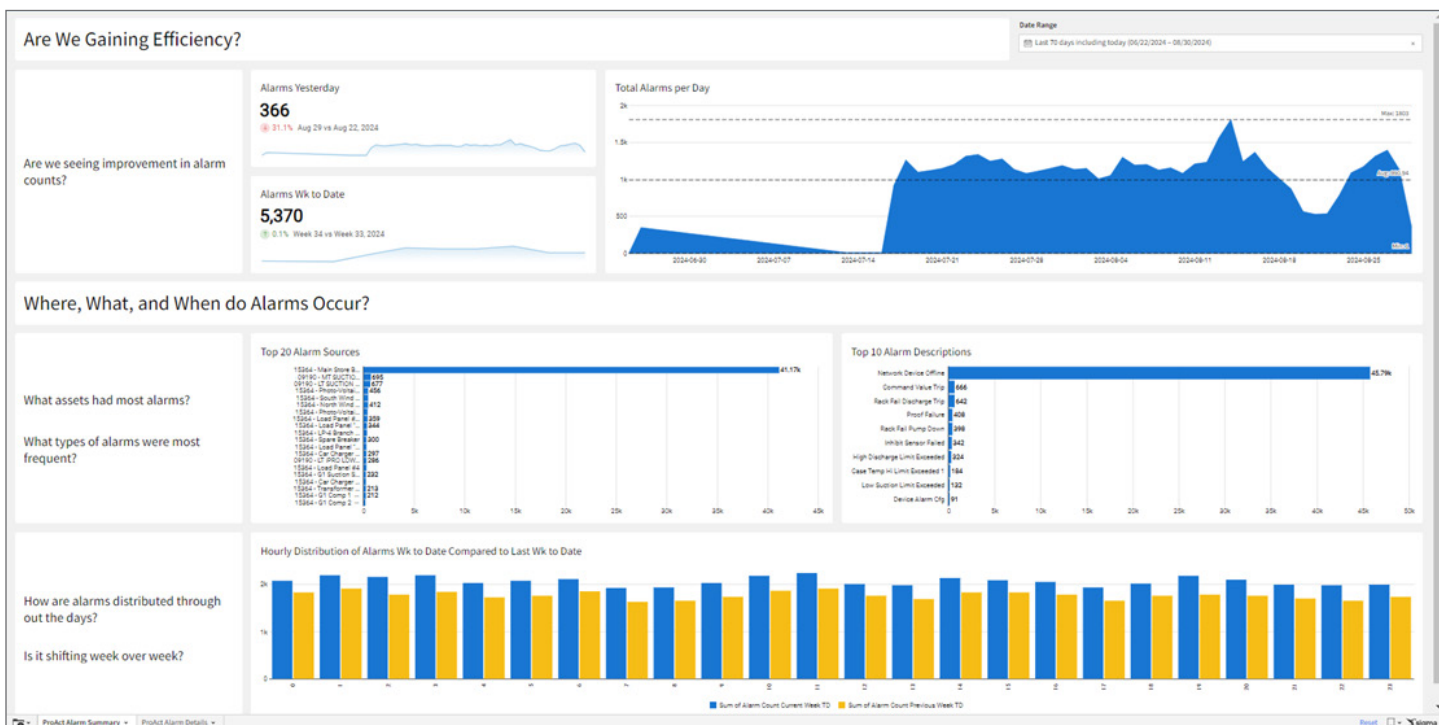
Legend Configuration



Legend Configuration

15.3 Alarm Summary Report

Select Top Menu > **Reporting** > **Alarm Summary Report**, you will see the report.



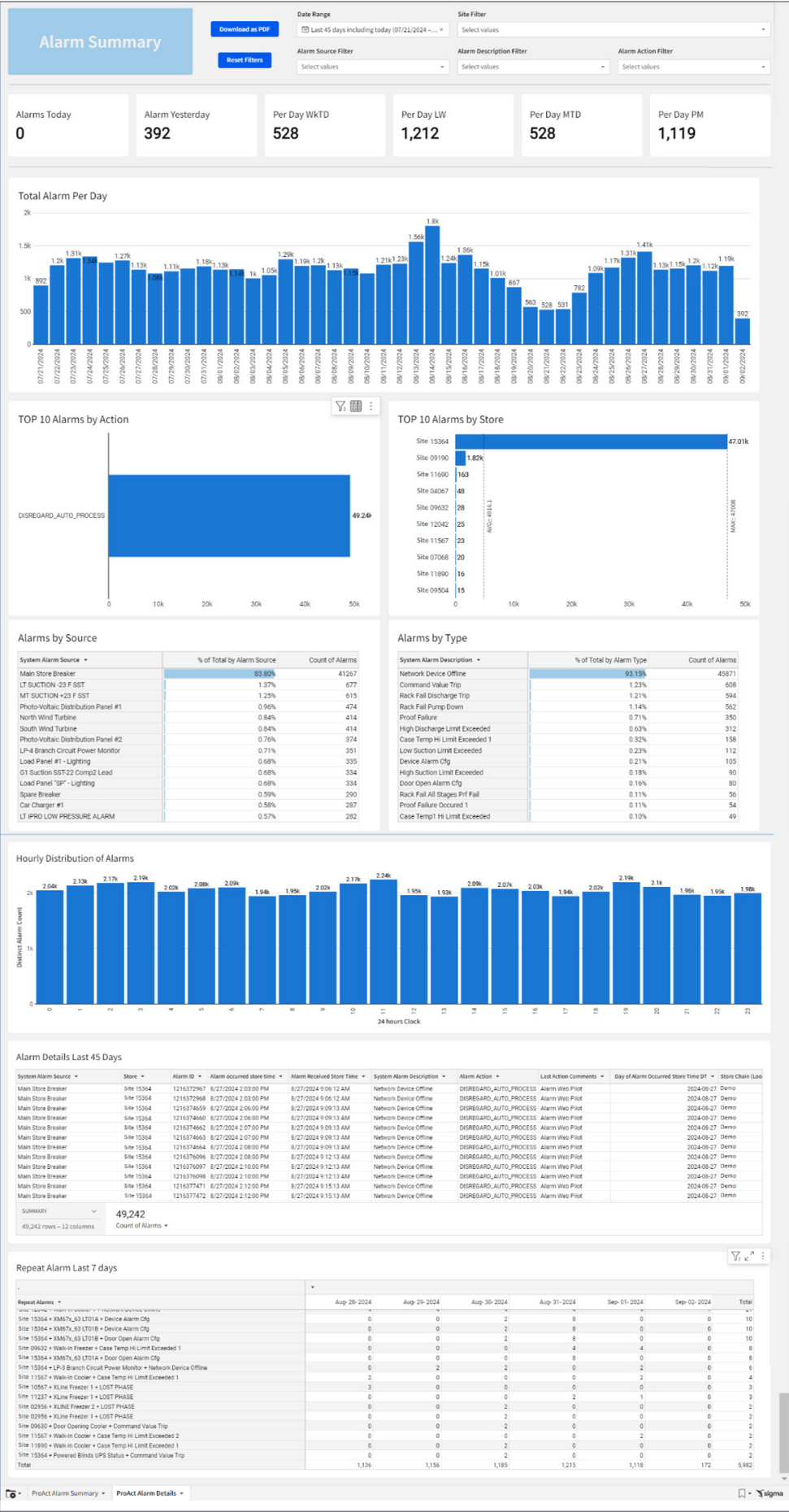
The report defaults to showing a summary of the alarms and displays the last 45 days of data. You can change the date filter from the top.

In the **Alarm Summary** page, each section displays the alarms with a different view and shows their meaning on the left side, so you can easily understand what each chart and table data means.

You can filter, view detail data and export the data by clicking the icon on the upper right of each section.



If you want to see detailed information for each site, you can change the tab at the bottom of the report. Filter the desired criteria from the top and the detailed data will be displayed on the next image.

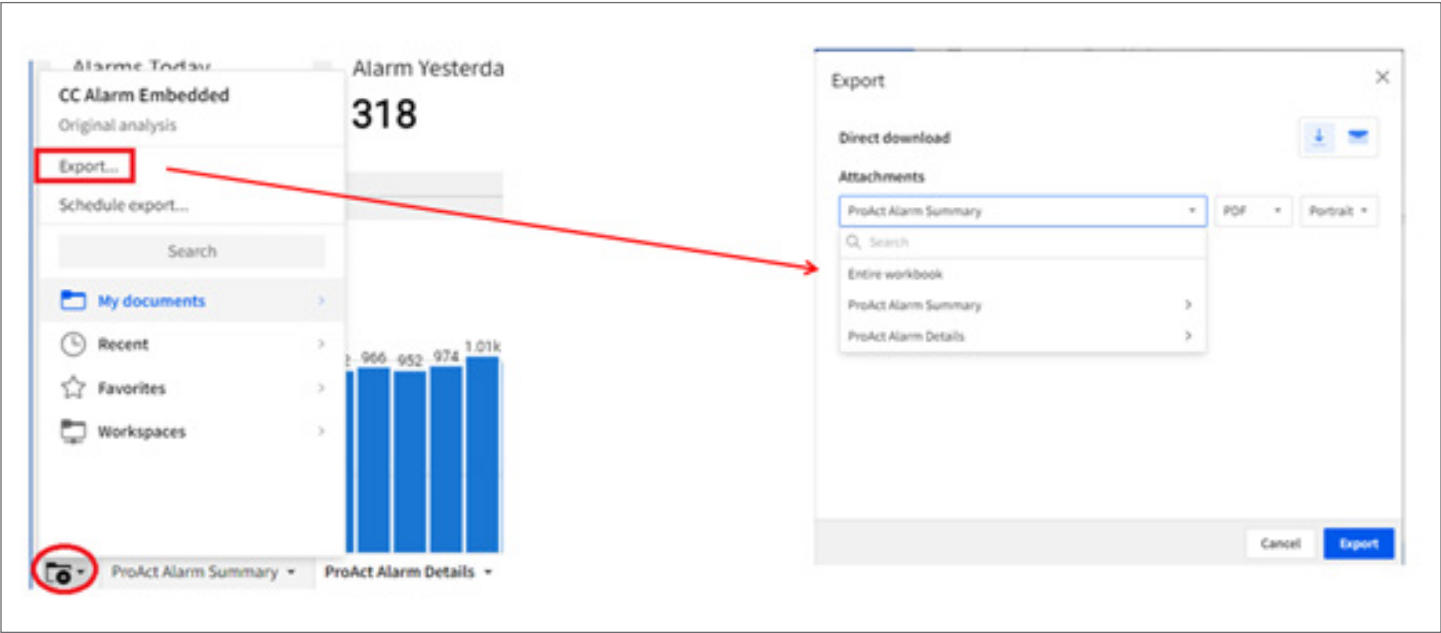


| Field Name | Description |
|-----------------|--|
| Alarms Today | Shows the total alarm number for today. |
| Alarm Yesterday | Shows the total alarm number for yesterday. |
| Per Day WkTD | Shows the average alarm number for a period time from the beginning of the current calendar week to the end of the current date. |
| Per Day LW | Shows the average alarm number of last week. |
| Per Day MTD | Shows the average alarm number for a period time from the beginning of the current month to the end of the current date. |
| Per Day PM | Shows the average alarm number of past month. |

From this page, you can download the entire report for this alarm detail by clicking the **Download as PDF** button at the top. As with other reports, you can also export the data for each chart or table from the top right corner of each section.

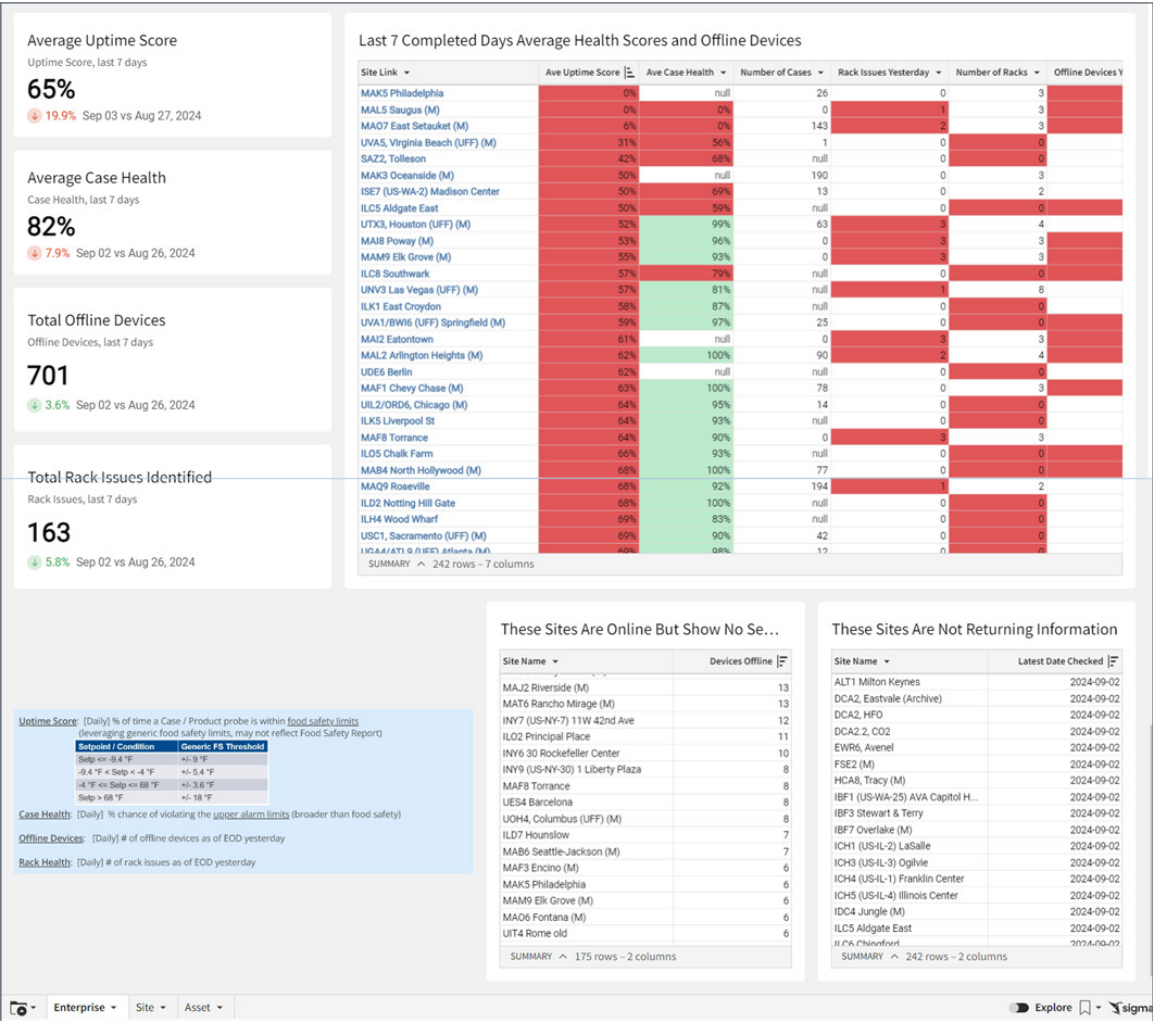


To export the entire report, you can click on the icon at the bottom left of the report and then select **Entire Workbook** from the **Attachments** drop-down menu.

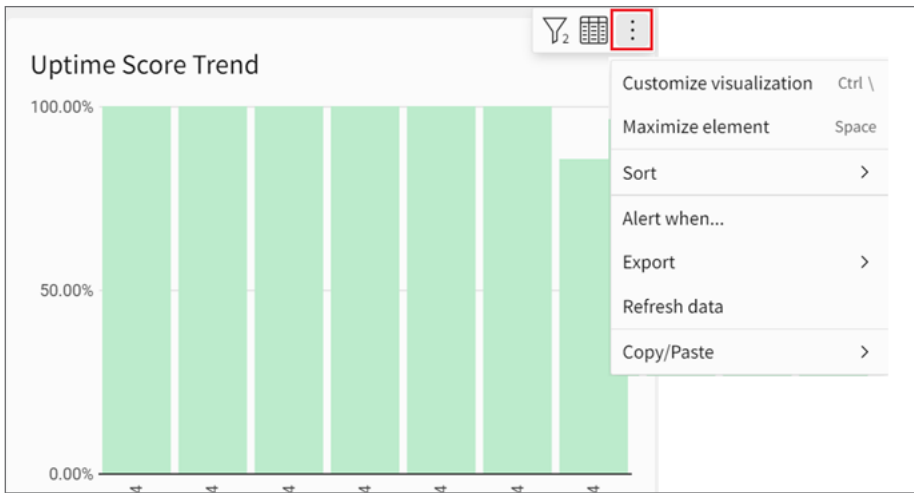


15.4 Insight Enterprise Report

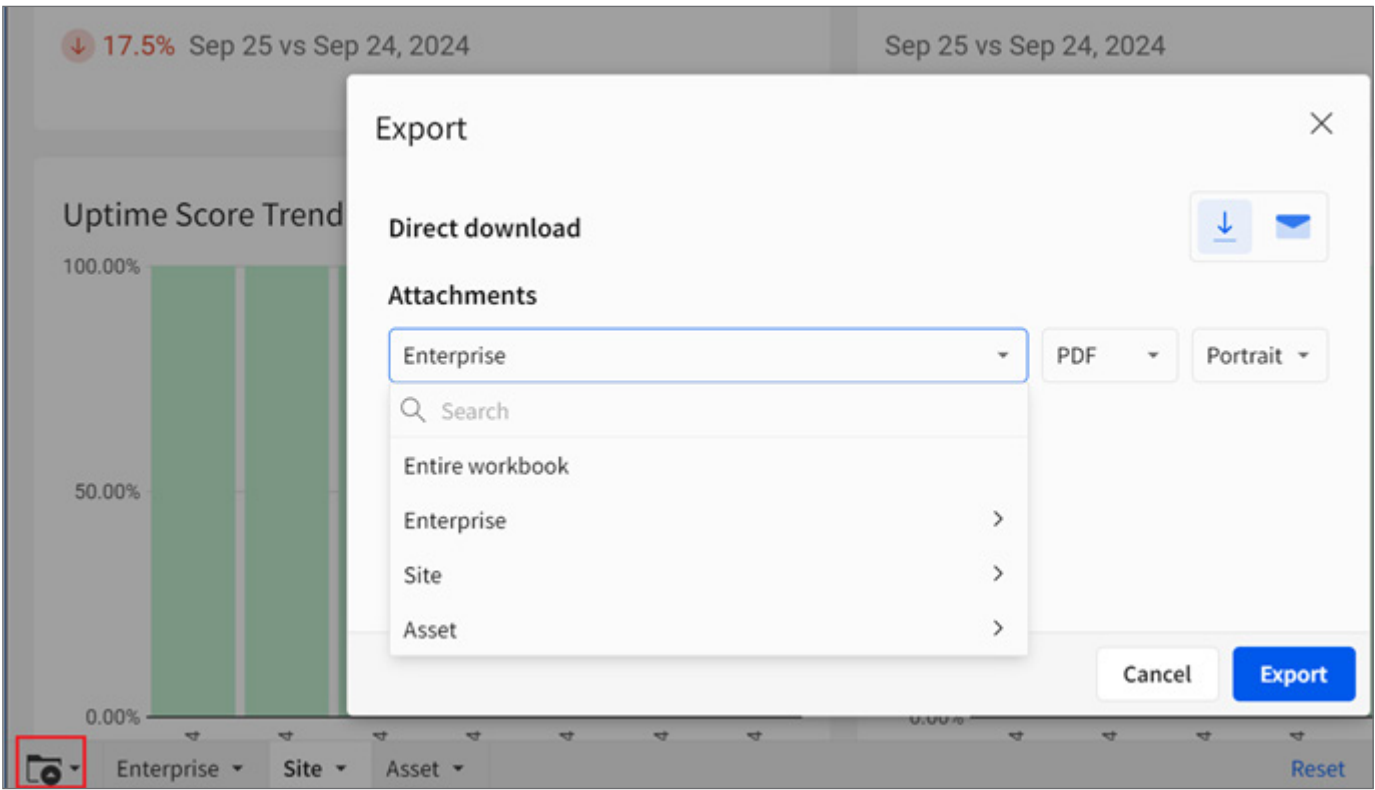
This report can be seen by selecting Top Menu > **Reporting** > **Insight Enterprise Report**. The report calculates the data to analysis whether a case or rack device is healthy or not, and categorizes the data according to enterprise, site and asset level, you can switch them at the bottom of the report.




Data marked in red indicates that the target is not meeting expectations, and you need to pay attention to that. You can go the **Site** or **Asset** page to filter and view the specific site data. In **Site** and **Asset** tab, you can filter the site and case you are concerned about from the top. You can customize the view, sort or export the data for this section from the menu in the upper right corner of each section.



If you want to export the whole data, click the icon at the bottom left of the report and then select **Entire Workbook** from the **Attachments** drop-down menu.



16. Global Search

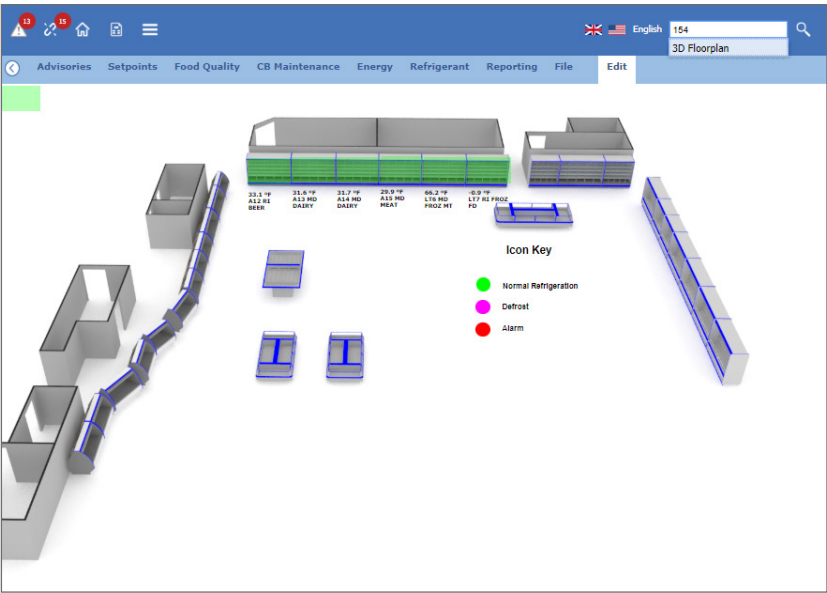
A search can be performed by entering criteria into the search field (look for the magnifying glass) on the Connect+ header. You can search for a site's home screen, or for a specific directories, sites, controllers, devices or points. Clicking search icon  to search for the relative tree nodes.

When a site is configured as the Site Home Screen, you can search the home screen by filling in the site name.

Do not click the search button and wait for the site's home screen name to show up like a drop-down item, by clicking the site home screen name, you can be directed to that site's Home Screen directly.



Search Field



Site Home Page

| Search Results Relevance 100.00% | | |
|----------------------------------|------------------|---|
| Name | Type | Context |
| Condensers | Application Type | > Demo > 162 > E2 > RX-400 4: LT DESK > Condensers |
| Condensers | Application Type | > A_Kennesaw TechSupport > SS > E2 > RX-400 2: E2 Unit02 > Condensers |
| Condensers | Application Type | > H > 00258 > E2 > RX-300 1: RACK A > Condensers |
| Condensers | Application Type | > H > 00258 > E2 > RX-300 2: RACK B > Condensers |
| Condensers | Application Type | > H > 00258 > E2 > RX-300 3: RACK C > Condensers |
| Condensers | Application Type | > Demo > 154 Atlanta > E2 > RX-400 3: PROTO A/B > Condensers |
| Condensers | Application Type | > Demo > 154 Atlanta > E2 > RX-400 2: RAK LT/TC > Condensers |
| Condensers | Application Type | > M > M00296 > E2 > RX-400 2: RACK 1 > Condensers |
| Condensers | Application Type | > M > M00296 > E2 > RX-400 3: RACK 2 > Condensers |
| Condensers | Application Type | > M > M00296 > E2 > RX-400 4: RACK 3 > Condensers |
| Condensers | Application Type | > M > M00296 > E2 > RX-400 5: RACK 4 > Condensers |
| Condensers | Application Type | > M > M00296 > E2 > RX-400 6: RACK 5 > Condensers |
| Condensers | Application Type | > M > M00296 > E2 > RX-400 7: UNIT 6 > Condensers |
| Condensers | Application Type | > M > M00120 > E2 > RX-400 1: RACK 1&2 > Condensers |
| Condensers | Application Type | > M > M00120 > E2 > RX-400 2: RACK 3&4 > Condensers |
| Condensers | Application Type | > M > M00120 > E2 > RX-400 3: RACK 5 > Condensers |
| Condensers | Application Type | > RX400-Refrig:LT DESK > Condensers |
| Condensers | Application Type | > Test > Fan Test > RX-400 2: RAK LT/TC > Condensers |
| Condensers | Application Type | > Test > Fan Test > RX-400 3: PROTO A/B > Condensers |
| Condensers | Application Type | > Test > Fan Test > RX-300 4: E2 Unit04 > Condensers |

Search Result

17. Audit Log

You can have an overall information about the user login/logout and Connect+ management in Audit Log page. Select **Header Menu > Activity > Audit Log**. You will see Past 7 days data by default.

Occurrence Date | Past 7 Days

Reset Filters

Refresh Audit Log

| Event | Occurrence Date | User | Group | Type | Action Taken | Target | Subsystem | Details |
|---------------------------|---------------------|-----------|------------|--------|---------------------|-------------|-----------|--|
| All | | | | All | | | All | |
| User Session | 2023-08-23 07:21 PM | JColeman | GS Screens | Login | Login | JColeman | Connect+ | Browser Version: Chrome --- Operating System: Windows --- IP Address... |
| User Session | 2023-08-23 07:18 PM | JColeman | GS Screens | Logout | Auto Logout | JColeman | Connect+ | Logged In Duration: 41:18 --- Browser Version: Chrome --- Operating S... |
| User Session | 2023-08-23 06:36 PM | JColeman | GS Screens | Login | Login | JColeman | Connect+ | Browser Version: Chrome --- Operating System: Windows --- IP Address... |
| User Session | 2023-08-23 01:51 PM | Jrupert | GS Screens | Logout | User Logout | Jrupert | Connect+ | Logged In Duration: 01:33:44 --- Browser Version: Chrome --- Operatin... |
| User Session | 2023-08-23 12:18 PM | Jrupert | GS Screens | Login | Login | Jrupert | Connect+ | Browser Version: Chrome --- Operating System: Windows --- IP Address... |
| User Session | 2023-08-23 10:54 AM | Jrupert | GS Screens | Logout | Auto Logout | Jrupert | Connect+ | Logged In Duration: 31:07 --- Browser Version: Chrome --- Operating S... |
| User Session | 2023-08-23 10:23 AM | Jrupert | GS Screens | Login | Login | Jrupert | Connect+ | Browser Version: Chrome --- Operating System: Windows --- IP Address... |
| User Session | 2023-08-23 10:02 AM | ENGAdmin | ADMIN | Logout | User Logout | ENGAdmin | Connect+ | Logged In Duration: 03:46 --- Browser Version: Chrome --- Operating S... |
| User Group Administration | 2023-08-23 09:57 AM | ENGAdmin | ADMIN | Modify | Group Configuration | ConnectAPI | Connect+ | Group Configuration Changed --- Protocol Access Level: Change From '4... |
| User Session | 2023-08-23 09:57 AM | ENGAdmin | ADMIN | Login | Login | ENGAdmin | Connect+ | Browser Version: Chrome --- Operating System: Windows --- IP Address... |
| User Session | 2023-08-23 04:37 AM | ENGAdmin | ADMIN | Login | Login | ENGAdmin | Connect+ | Browser Version: Chrome --- Operating System: Windows --- IP Address... |
| User Session | 2023-08-23 12:42 AM | ENGAdmin | ADMIN | Logout | Auto Logout | ENGAdmin | Connect+ | Logged In Duration: 37:29 --- Browser Version: Chrome --- Operating S... |
| User Session | 2023-08-23 12:05 AM | ENGAdmin | ADMIN | Login | Login | ENGAdmin | Connect+ | Browser Version: Chrome --- Operating System: Windows --- IP Address... |
| User Session | 2023-08-22 08:12 AM | slyons | ADMIN | Login | Login | slyons | Connect+ | Browser Version: Chrome --- Operating System: Windows --- IP Address... |
| User Session | 2023-08-22 08:09 AM | ENGAdmin | ADMIN | Login | Login | ENGAdmin | Connect+ | Browser Version: Chrome --- Operating System: Windows --- IP Address... |
| User Session | 2023-08-22 05:28 AM | ENGAdmin | ADMIN | Logout | Auto Logout | ENGAdmin | Connect+ | Logged In Duration: 04:06:42 --- Browser Version: Chrome --- Operatin... |
| User Session | 2023-08-22 01:22 AM | ENGAdmin | ADMIN | Login | Login | ENGAdmin | Connect+ | Browser Version: Chrome --- Operating System: Windows --- IP Address... |
| User Session | 2023-08-21 11:21 PM | ENGAdmin | ADMIN | Logout | Auto Logout | ENGAdmin | Connect+ | Logged In Duration: 56:35 --- Browser Version: Chrome --- Operating S... |
| User Session | 2023-08-21 10:24 PM | ENGAdmin | ADMIN | Login | Login | ENGAdmin | Connect+ | Browser Version: Chrome --- Operating System: Windows --- IP Address... |
| User Session | 2023-08-21 03:11 PM | ENGAdmin | ADMIN | Login | Login | ENGAdmin | Connect+ | Browser Version: Mobile Safari --- Operating System: iOS --- IP Address... |
| User Session | 2023-08-21 02:50 PM | ENGAdmin | ADMIN | Logout | User Logout | ENGAdmin | Connect+ | Logged In Duration: 02:05 --- Browser Version: Chrome --- Operating S... |
| User Session | 2023-08-21 02:48 PM | ENGAdmin | ADMIN | Login | Login | ENGAdmin | Connect+ | Browser Version: Chrome --- Operating System: Windows --- IP Address... |
| User Session | 2023-08-21 01:50 PM | techadmin | ADMIN | Logout | Auto Logout | techadmin | Connect+ | Logged In Duration: 50:02 --- Browser Version: Chrome --- Operating S... |
| Site Manager | 2023-08-21 01:03 PM | techadmin | ADMIN | Create | Site | Test Site 1 | Connect+ | Site Added: Test Site 1 |
| User Session | 2023-08-21 01:00 PM | techadmin | ADMIN | Login | Login | techadmin | Connect+ | Browser Version: Chrome --- Operating System: Windows --- IP Address... |
| User Session | 2023-08-21 12:44 PM | ENGAdmin | ADMIN | Logout | Auto Logout | ENGAdmin | Connect+ | Logged In Duration: 01:35:36 --- Browser Version: Chrome --- Operatin... |
| User Session | 2023-08-21 12:00 PM | techadmin | ADMIN | Logout | Auto Logout | techadmin | Connect+ | Logged In Duration: 42:59 --- Browser Version: Chrome --- Operating S... |
| User Session | 2023-08-21 12:00 PM | ENGAdmin | ADMIN | Logout | Auto Logout | ENGAdmin | Connect+ | Logged In Duration: 01:04:49 --- Browser Version: Chrome --- Operatin... |

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of 30

Displaying 2901 - 2941 of 2941

Audit Log

| Event | Type | Action Taken | Details |
|---------------------------|--------|---------------------|---|
| User Sessions | Login | Login | |
| | Logout | User Logout | Show the browser and version, operation system and version, IP address. |
| | | Auto Logout | |
| User Group Administration | Create | Group | Describe which group is created or deleted. |
| | Delete | | |
| | Modify | Group Configuration | Describe what information is modified. |
| | Modify | Group Access | Describe the group change. |
| User Administration | Create | User | Describe which user is created or deleted. |
| | Delete | | |
| | Modify | User Configuration | Describe what information is modified. |
| | Modify | Password | Password change record. The password is encrypted. |
| Site Manager | Create | Site | Describe which site is created, modified or deleted. |
| | Modify | | |
| | Delete | | |
| Directory Manager | Create | Directory | Describe which directory is created, modified or deleted. |
| | Modify | | |
| | Delete | | |

Appendix A: Summary of Export Capability

| Data to Export | Connect+ Page | UI Access |
|--------------------------------|-------------------------|---|
| Advisories | Advisory View | Toolbar Menu and Navigation Tree |
| Live Advisories | Live Advisory | Tree Control System |
| Log Data | Watch Points | Watch Point Page |
| | Log Graph | Advisories View > Log Graph > Setting |
| | | Watch Points > Log Graph > Setting |
| Connection Verification Report | Site not Sending Alarms | Graphical Screens > Log Graph > Setting |
| Enterprise Summary | Enterprise Summary | Toolbar Menu |

[Summary of Export](#)

Appendix B: System Summary Screens

| Connect+ Page | UI Access |
|-----------------------|----------------------|
| Refrigerant Summary | Site |
| Building Summary | Site |
| Other Summary | Site |
| Summary (Controller) | Unit |
| Summary (Application) | Application Type |
| Defrost Summary | Application Type |
| Graphical Status | Application Instance |
| Status | Application Instance |

[System Summary Screens](#)

Site Level: Refrigeration Summary

Refrigeration Summary

| Unit | Suction Group | Suction | Suct SP | Suct Temp | Disch | Active Stages | Total Stages | % Cap | Status |
|---------------------------------------|---------------|---------|---------|-----------|-------|---------------|--------------|-------|--------|
| No application instances of this type | | | | | | | | | |

| Unit | Enhanced Suct Grp | Suction | Suct SP | Suct Temp | Disch | Active Stages | Total Stages | % Cap | Status |
|---------------------|-------------------|----------|----------|-----------|---------|---------------|--------------|---------|--------|
| RX-400 2: RAK LT/TC | RAK LT | 17.0 PSI | 15.0 PSI | NONE °F | NONE °F | 4 | 4 | 100.0 % | OK |
| RX-400 2: RAK LT/TC | RAK TC | 20.0 PSI | 15.0 PSI | NONE °F | NONE °F | 2 | 2 | 100.0 % | OK |
| RX-400 3: PROTO A/B | PROTOCOL A | 54.0 PSI | 50.0 PSI | NONE °F | NONE °F | 6 | 6 | 100.0 % | OK |
| RX-400 3: PROTO A/B | PROTOCOL B | 63.9 PSI | 54.0 PSI | NONE °F | NONE °F | 6 | 6 | 50.0 % | OK |

| Unit | Condenser | P Ctrl | P Set | PM | VS % | State |
|---------------------|--------------|-----------|-----------|----|------|------------|
| RX-300 4: E2 Unit04 | CONDENSER | NONE PSI | 200.0 PSI | ? | ? | Fan(s) On |
| RX-400 2: RAK LT/TC | CONDENSER LT | 216.2 PSI | 210.0 PSI | ? | ? | Fan(s) On |
| RX-400 2: RAK LT/TC | CONDENSER TC | 172.4 PSI | 180.0 PSI | ? | ? | Fan(s) On |
| RX-400 3: PROTO A/B | CONDENSER A | ? | ? | ? | ? | Fan(s) Off |
| RX-400 3: PROTO A/B | CONDENSER B | 150.0 PSI | 222.0 PSI | ? | ? | Fan(s) Off |

| Unit | Circuit (CC) | Alarm | State | Temp | Setpt |
|---------------------------------------|--------------|-------|-------|------|-------|
| No application instances of this type | | | | | |

SUCT MON TEMP

Override

Display Log Graph

Graph Collection

Show on Real-time Graph

Point Properties

Connection Verification Report

Forward Advisories

View Advisories

Create Setpoint Broadcast

Configure Advisory Snooze

Configure CB Maintenance

Configure Log Purge

Edit Application Instance

| Standard | Alarm | State | Temp | Setpt |
|----------|-------|---------------|---------|----------|
| ? | ? | REFRIGERATION | -9.3 °F | -12.0 °F |
| ? | ? | REFRIGERATION | -1.4 °F | 0.0 °F |
| ? | ? | REFRIGERATION | 0.0 °F | 0.0 °F |
| ? | ? | REFRIGERATION | -2.2 °F | 0.0 °F |
| ? | ? | REFRIGERATION | -1.7 °F | 0.0 °F |
| ? | ? | REFRIGERATION | 1.0 °F | 0.0 °F |
| ? | ? | REFRIGERATION | -0.5 °F | 0.0 °F |
| ? | ? | REFRIGERATION | -1.6 °F | -1.0 °F |
| ? | ? | REFRIGERATION | 0.1 °F | 0.0 °F |
| ? | ? | REFRIGERATION | 25.0 °F | 28.0 °F |
| ? | ? | REFRIGERATION | -7.5 °F | 0.0 °F |
| ? | ? | REFRIGERATION | 42.7 °F | 50.0 °F |

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Home

Building Summary

Other Summary

Site Level: Building Summary

Building Summary

| Unit | Outside Temp | Outside Hum | Inside Hum | Outside Light |
|---------------------|--------------|-------------|------------|---------------|
| BX-400 1: HVAC/LTS | NONE °F | NONE RH | NONE RH | NONE Ftc |
| RX-300 4: E2 Unit04 | NONE °F | NONE RH | NONE RH | NONE Ftc |
| RX-400 2: RAK LT/TC | NONE °F | NONE RH | NONE RH | NONE Ftc |
| RX-400 3: PROTO A/B | NONE °F | NONE RH | NONE RH | NONE Ftc |

| Unit | AHU | Temp | Setpt | Status | Occupied |
|--------------------|----------------|---------|---------|---------|----------|
| BX-400 1: HVAC/LTS | 1-MAIN AHU | NONE °F | NONE °F | No Ctrl | UNOCC |
| BX-400 1: HVAC/LTS | AHU1 | NONE °F | NONE °F | No Ctrl | UNOCC |
| BX-400 1: HVAC/LTS | GMI-SALES AREA | NONE °F | NONE °F | No Ctrl | UNOCC |
| BX-400 1: HVAC/LTS | RTU-1 BAKERY | NONE °F | NONE °F | No Ctrl | UNOCC |
| BX-400 1: HVAC/LTS | RTU-2A PRODUCE | NONE °F | NONE °F | No Ctrl | UNOCC |
| BX-400 1: HVAC/LTS | RTU-2B PRODUCE | NONE °F | NONE °F | No Ctrl | UNOCC |
| BX-400 1: HVAC/LTS | RTU-3 KITCHEN | NONE °F | NONE °F | No Ctrl | UNOCC |
| BX-400 1: HVAC/LTS | RTU-4 CONF RM | NONE °F | NONE °F | No Ctrl | UNOCC |

| Unit | ARTC | Temp | Occup |
|---------------------------------------|------|------|-------|
| No application instances of this type | | | |

| Unit | Lighting (ENH) | Output |
|--------------------|----------------|--------|
| BX-400 1: HVAC/LTS | OUTSIDE LIGHTS | On |
| BX-400 1: HVAC/LTS | PARKING LOT | On |
| BX-400 1: HVAC/LTS | SALES LIGHTS | On |
| BX-400 1: HVAC/LTS | STOCK LIGHTS | Off |

| Unit | Schedule | Output |
|--------------------|-----------------|--------|
| BX-400 1: HVAC/LTS | 10101 | na |
| BX-400 1: HVAC/LTS | MAIN OCCUPANCY | Off |
| BX-400 1: HVAC/LTS | RTU-1 OCUPANCY | na |
| BX-400 1: HVAC/LTS | RTU-2A OCUPANCY | On |
| BX-400 1: HVAC/LTS | RTU-2B OCUPANCY | On |
| BX-400 1: HVAC/LTS | RTU-3 OCUPANCY | On |
| BX-400 1: HVAC/LTS | RTU-4 OCUPANCY | On |

Site Level: Other Summary

| Unit | Anti-Sweat | Dewpoint | ON % |
|---------------------|--------------|----------|------|
| RX-400 2: RAK LT/TC | ANTI-SWEAT01 | NONE °F | 0.0 |
| RX-400 2: RAK LT/TC | ANTI-SWEAT02 | NONE °F | 0.0 |
| RX-400 2: RAK LT/TC | ANTI-SWEAT03 | NONE °F | 0.0 |

| Unit | Demand Control | Instant | Status |
|---------------------------------------|----------------|---------|--------|
| No application instances of this type | | | |

| Unit | Power Channel | KW | Avg KW | Shed | Time in Shed |
|--------------------|----------------|--------|--------|-----------|--------------|
| BX-400 1: HVAC/LTS | MAIN POWER MON | 0.0 KW | 0.0 KW | RESTORE 0 | |

| Unit | Analog Sensor | Value | Command |
|---------------------|----------------|---------|---------|
| BX-400 1: HVAC/LTS | COMPRESOR ROOM | NONE °F | Off |
| BX-400 1: HVAC/LTS | COMPUTER ROOM | NONE °F | Off |
| BX-400 1: HVAC/LTS | PHARMACY TEMP | NONE °F | Off |
| RX-400 2: RAK LT/TC | AMB TMP SEL LT | NONE °F | Off |
| RX-400 2: RAK LT/TC | AMB TMP SEL TC | 90.0 °F | Off |
| RX-400 2: RAK LT/TC | AMB TMPCALC LT | NONE °F | Off |
| RX-400 2: RAK LT/TC | AMB TMPCALC TC | NONE °F | Off |
| RX-400 2: RAK LT/TC | DIS TEMP RK LT | NONE °F | Off |
| RX-400 2: RAK LT/TC | DIS TEMP RK TC | NONE °F | Off |
| RX-400 2: RAK LT/TC | DISCH TEMP LT | NONE °F | On |

| Unit | Digital Sensor | Ctrl Value | Command |
|---------------------|----------------|------------|---------|
| BX-400 1: HVAC/LTS | Load | Off | Off |
| RX-400 2: RAK LT/TC | 12VDC PWR RX#2 | Off | On |
| RX-400 2: RAK LT/TC | ALARM DISABLE | na | Off |
| RX-400 2: RAK LT/TC | ATC BYPASS LT | Off | Off |
| RX-400 2: RAK LT/TC | ATC BYPASS TC | Off | Off |
| RX-400 2: RAK LT/TC | ATC CONTROL LT | Off | On |
| RX-400 2: RAK LT/TC | ATC CONTROL TC | Off | On |
| RX-400 2: RAK LT/TC | MTPREP RUN PRF | Off | On |
| RX-400 3: PROTO A/B | ALARM DISABLE | na | Off |
| RX-400 3: PROTO A/B | ATC CONTROL A | Off | On |

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Home

Refrigeration Summary

Building Summary

Controller Unit Level: Controller Summary

Building Controller Summary

Controller Summary

| Outside Temp | Outside Hum | Inside Hum | Outside Light |
|--------------|-------------|------------|---------------|
| NONE °F | NONE RH | NONE RH | NONE ftc |

| AHU | Temp | Setpt | Status | Occupied |
|----------------|---------|-------|---------|----------|
| 1-MAIN AHU | NONE °F | NONE | No Ctrl | UNOCC |
| AHU1 | NONE °F | NONE | No Ctrl | UNOCC |
| AREA | NONE °F | NONE | No Ctrl | UNOCC |
| RTU-1 BAKERY | NONE °F | NONE | No Ctrl | UNOCC |
| RTU-2A PRODUCE | NONE °F | NONE | No Ctrl | UNOCC |
| RTU-2B PRODUCE | NONE °F | NONE | No Ctrl | UNOCC |
| RTU-3 KITCHEN | NONE °F | NONE | No Ctrl | UNOCC |
| RTU-4 CONF RM | NONE °F | NONE | No Ctrl | UNOCC |

| ARTC | Temp | Occup |
|---------------------------------------|------|-------|
| No application instances of this type | | |

| Lighting (ENH) | Output |
|----------------|--------|
| OUTSIDE LIGHTS | On |
| PARKING LOT | On |
| SALES LIGHTS | On |
| STOCK LIGHTS | Off |

| Schedule | Output |
|------------------|--------|
| 10101 | na |
| MAIN OCCUPANCY | Off |
| RTU-1 OCCUPANCY | na |
| RTU-2A OCCUPANCY | On |
| RTU-2B OCCUPANCY | On |
| RTU-3 OCCUPANCY | On |
| RTU-4 OCCUPANCY | On |

Ref Controller Summary

Controller Summary

| Suction Group | Suction | Suct SP | Suct Temp | Disch | Active Stages | Total Stages | % Cap | Status |
|---------------------------------------|---------|---------|-----------|-------|---------------|--------------|-------|--------|
| No application instances of this type | | | | | | | | |

| Enhanced Suct Grp | Suction | Suct SP | Suct Temp | Disch | Active Stages | Total Stages | % Cap | Status |
|-------------------|----------|----------|-----------|----------|---------------|--------------|---------|--------|
| RACK LT | 17.0 PSI | 15.0 PSI | NONE °F | NONE PSI | 4 | 4 | 100.0 % | OK |
| RACK TC | 20.0 PSI | 15.0 PSI | NONE °F | NONE PSI | 2 | 2 | 100.0 % | OK |

| Condenser | P Ctrl | P Setpt | T Ctrl | T Setpt | VS RPM | VS % | State |
|--------------|-----------|-----------|--------|---------|--------|------|-----------|
| CONDENSER LT | 211.3 PSI | 210.0 PSI | ?? | ?? | ?? | ?? | Fan(s) On |
| CONDENSER TC | 171.9 PSI | 180.0 PSI | ?? | ?? | ?? | ?? | Fan(s) On |

| Circuit (CC) | Alarm | State | Temp | Setpt |
|---------------------------------------|-------|-------|------|-------|
| No application instances of this type | | | | |

| Circuit (Standard) | Alarm | State | Temp | Setpt |
|--------------------|-------|---------------|---------|----------|
| GROC | .. | REFRIGERATION | -9.3 °F | -12.0 °F |
| FROZ FD | .. | REFRIGERATION | 0.3 °F | 0.0 °F |
| FROZ FD | .. | REFRIGERATION | 1.3 °F | 0.0 °F |
| FROZ FD | .. | REFRIGERATION | 0.2 °F | 0.0 °F |
| FROZ FD | .. | REFRIGERATION | -1.4 °F | 0.0 °F |
| FROZ MT | .. | REFRIGERATION | 0.2 °F | 0.0 °F |
| FROZ FD | .. | REFRIGERATION | -0.3 °F | 0.0 °F |
| DT MEAT | .. | REFRIGERATION | -0.7 °F | -1.0 °F |
| DT MEAT | .. | REFRIGERATION | -1.7 °F | 0.0 °F |
| DT MEAT | .. | REFRIGERATION | 22.0 °F | 28.0 °F |
| FRZR | .. | REFRIGERATION | -7.5 °F | 0.0 °F |
| MEAT PREP 30 | .. | REFRIGERATION | 50.1 °F | 50.0 °F |

Application Type Level: Summary Screens

Circuits (Standard)

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| Name | State | Temp | Setpt | Alarm | Refr | Defr |
|--------------|---------------|---------|-------|-------|------|------|
| GROC | REFRIGERATION | -9.3 °F | -12.0 | .. | On | Off |
| RI FROZ FD | REFRIGERATION | -0.6 °F | 0.0 | .. | Off | Off |
| RI FROZ FD | REFRIGERATION | 1.4 °F | 0.0 | .. | Off | Off |
| RI FROZ FD | REFRIGERATION | -2.8 °F | 0.0 | .. | Off | Off |
| RI FROZ FD | REFRIGERATION | -0.9 °F | 0.0 | .. | Off | Off |
| MD FROZ MT | REFRIGERATION | 1.0 °F | 0.0 | .. | Off | Off |
| RI FROZ FD | REFRIGERATION | -1.8 °F | 0.0 | .. | Off | Off |
| MEAT | REFRIGERATION | -2.2 °F | -1.0 | .. | Off | Off |
| MEAT | REFRIGERATION | 1.7 °F | 0.0 | .. | On | Off |
| MEAT | REFRIGERATION | 27.1 °F | 28.0 | .. | Off | Off |
| FRZR | REFRIGERATION | -7.5 °F | 0.0 | .. | On | Off |
| MEAT PREP 30 | REFRIGERATION | 47.0 °F | 50.0 | .. | Off | Off |
| SRVC FISH | REFRIGERATION | -3.5 °F | 34.0 | .. | On | Off |
| RI ICEAM | REFRIGERATION | -5.3 °F | -10.0 | .. | On | Off |
| RI ICEAM | REFRIGERATION | -1.7 °F | -10.0 | .. | On | Off |
| RI FRZ FD | REFRIGERATION | -0.2 °F | 0.0 | .. | On | Off |
| FRZ SEAFD | REFRIGERATION | -1.6 °F | -2.0 | .. | On | Off |

Defrost Summary

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| Circuit | Defr 1 | Defr 2 | Defr 3 | Defr 4 | Defr 5 | Defr 6 | Defr 7 | Defr 8 | Defr 9 | Defr 10 | Defr 11 | Defr 12 | Defr 13 | Defr 14 | Defr 15 | Defr 16 | Defr 17 | Defr 18 | Defr 19 | Defr 20 | Defr 21 | Defr 22 | Defr 23 | Defr 24 | Type | Max Time |
|--------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-----------|----------|
| GROC | 0:30 | 6:30 | 16:30 | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | HOT GAS | 0:35 |
| FROZ | 1:00 | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | HOT GAS | 0:20 |
| FROZ / FD | 1:30 | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | HOT GAS | 0:20 |
| FROZ | 2:00 | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | HOT GAS | 0:20 |
| FROZ FD | 2:30 | 6:00 | 14:30 | 20:30 | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | HOT GAS | 0:20 |
| FROZ D MT | 3:00 | 9:00 | 15:00 | 21:00 | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | HOT GAS | 0:20 |
| FROZ FD | 3:30 | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | HOT GAS | 0:20 |
| MEAT | 4:00 | 16:00 | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | HOT GAS | 0:20 |
| MEAT | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | HOT GAS | 0:20 |
| MEAT | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | HOT GAS | 0:20 |
| SEAFD | 4:30 | 10:30 | 16:30 | 22:30 | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | HOT GAS | 0:25 |
| FRZR | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAT PREP 30 | 2:00 | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | OFF CYCLE | 2:00 |
| SRVC FISH | 2:00 | 14:00 | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | HOT GAS | 0:18 |
| RI ICEAM | 5:30 | 17:30 | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | HOT GAS | 0:22 |
| RI ICEAM | 0:00 | 12:00 | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | HOT GAS | 0:22 |
| RI FRZ FD | 3:00 | 15:00 | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | HOT GAS | 0:20 |
| FRZ SEAFD | 1:00 | 7:00 | 13:00 | 19:00 | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? | HOT GAS | 0:18 |

Application Instance Level: Status Screen & Graphical Status

Status: REFRIGERATION

| INPUT STATUS | |
|--------------------|----------|
| Control Temp | -9.3 °F |
| Case Temp Setpoint | -12.0 °F |
| Term Type | TIME |

| Case | Case Temp |
|------|-----------|
| 1 | -9.3 °F |



| OUTPUT STATUS | |
|---------------|--------|
| Refrigeration | On |
| Defrost | Off |
| Fan | On |
| LLS | INACTV |
| Clean Switch | NONE |

/Demo/154 Atlanta/E2/"RX-400 2: RAK LT/TC"/Circuits (Standard)/LT1 GROC

Standard Circuits Status

| Input Property: | Value: |
|-----------------|---------|
| EMERGENCY OVR | na |
| CASE TEMP 1 | -9.3 °F |
| CONTROL TEMP | -9.3 °F |

| Setpoint Property | Value: |
|-------------------|----------|
| Term Type | TIME |
| CASE TEMP STPT | -12.0 °F |
| CASE ALM HI SP | 41.0 °F |
| CASE ALM LO SP | -15.0 °F |
| COMB ALM HI SP | NONE °F |
| COMB ALM LO SP | NONE °F |
| ACTIVE SETPT | -12.0 °F |

| Output Property: | Value: |
|------------------|---------------|
| CIRCUIT STATE | REFRIGERATION |
| REFRIG SOLENOID | On |
| DEFROST | Off |
| PEAK DEF TEMP | 66.2 °F |
| FAN | On |
| BYPASS STATE | NORMAL |
| ALARM OUT | .. |
| ALG STATUS | OK |
| CASE ALM OUT 1 | .. |

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For Technical Support call 833-409-7505 or email ColdChain.TechnicalServices@Copeland.com

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