

ePVS 4.2

BEET

ePVS 4.2 End User Training Manual

v1.0

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Use the BEET icon to go to the Table of Contents

The icons in the upper header are quick jump buttons. They will take you to that section.

Use the Sectional icon to go to the Table of Sections

Table of Sections

Click on a button to go to that section

First Time

Top Menu

Main Menu

Home

Cycle Browser

Event Timeline

Analog Data

Messages

Notes

Tasks

Scheduling

Layout



Log In to ePVS

- [Login](#)
- [Password](#)
- [Remember me](#)
- [Did you forget your password?](#)
- [Reset your password](#)
- [Change your Password](#)
- [Log Out](#)

To log on to ePVS, enter your username in the edit box provided. Enter your password, then click the Submit button to log on.

If the user wants to have the Username and Password remembered, check off the Remember Me checkbox.

If you forget your password, you can click on the **Forgot Password** button. This will open another window where you can input your email. Once entered, click the **Submit** button, and an email will be sent to your Inbox with a changed password and instructions.

To view a demonstration, [click here. Logging On](#)

Signing In

Login

Under the login box, the user will enter his username. If you do not have a username, contact an Administrator, and have one created. For more information see the User Maintenance section.

Password

In the password box, the user can enter your password. If you are assigned a new profile setup, a password will be sent to you to the email that you registered with. The password will be a random password generator by the ePVS. This can be used to initially log on to the browser. Once logged in the user can go to the settings tab in the upper right-hand side of the ePVS browser. Go to account settings, and select the password tab. It is there where you can change the password to one of your likings.

Remember me

To make logins easier the user can select the remember me check box. This will allow you to sign in quicker. Simply check the box next to the remember me.

Special note: This option should not be used on shared computers.

Did you forget your password?

If you have forgotten your password the user can simply click the, did you forget your password button? This action will open another window to reset your password. Simply enter the email address that you used to register, then click the reset password. An email will be sent to you with a reset password option. Follow directions to log back into the browser.

Sign in ePVS

Login

Enter your Username here

Password

Enter your Password here

Remember me

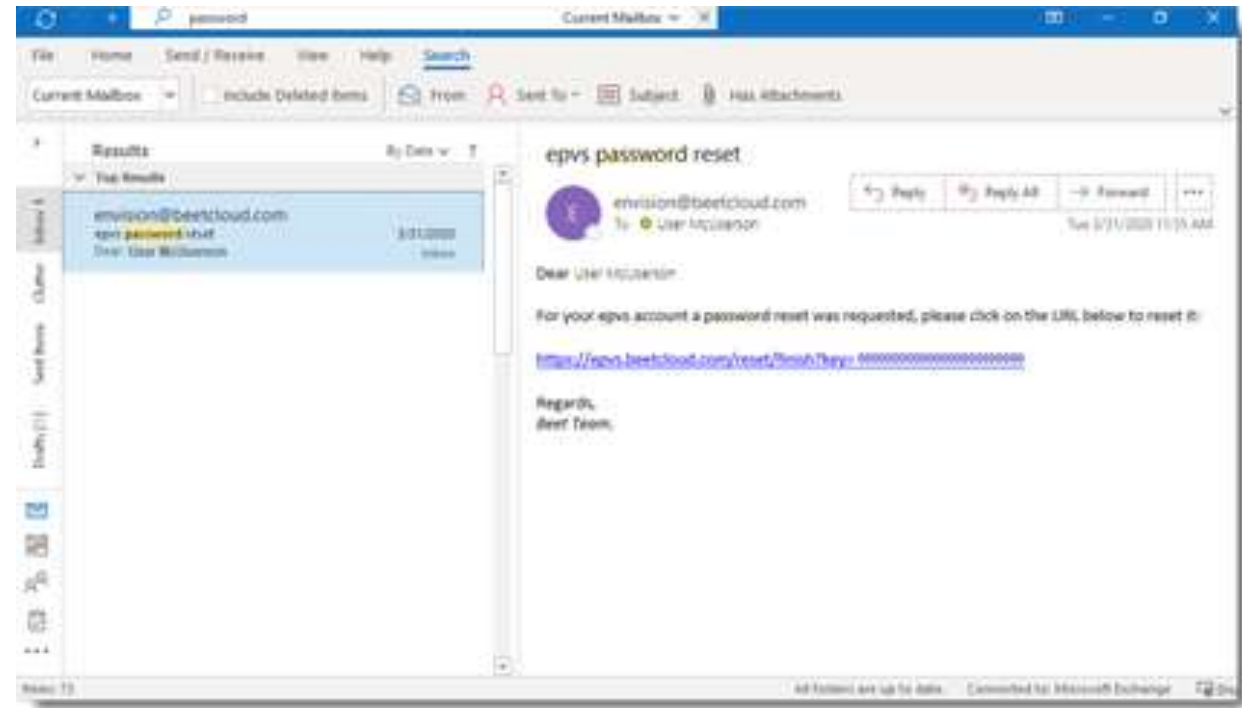
Sign in

Did you forget your password?

Reset your password

To reset your password, simply input the email address you used in registering in the software. Click the reset password button, and an email will be sent to you with instructions for resetting your password.

The email will be marked **epvs password reset**. Click on the link, and it will take you to a reset screen.



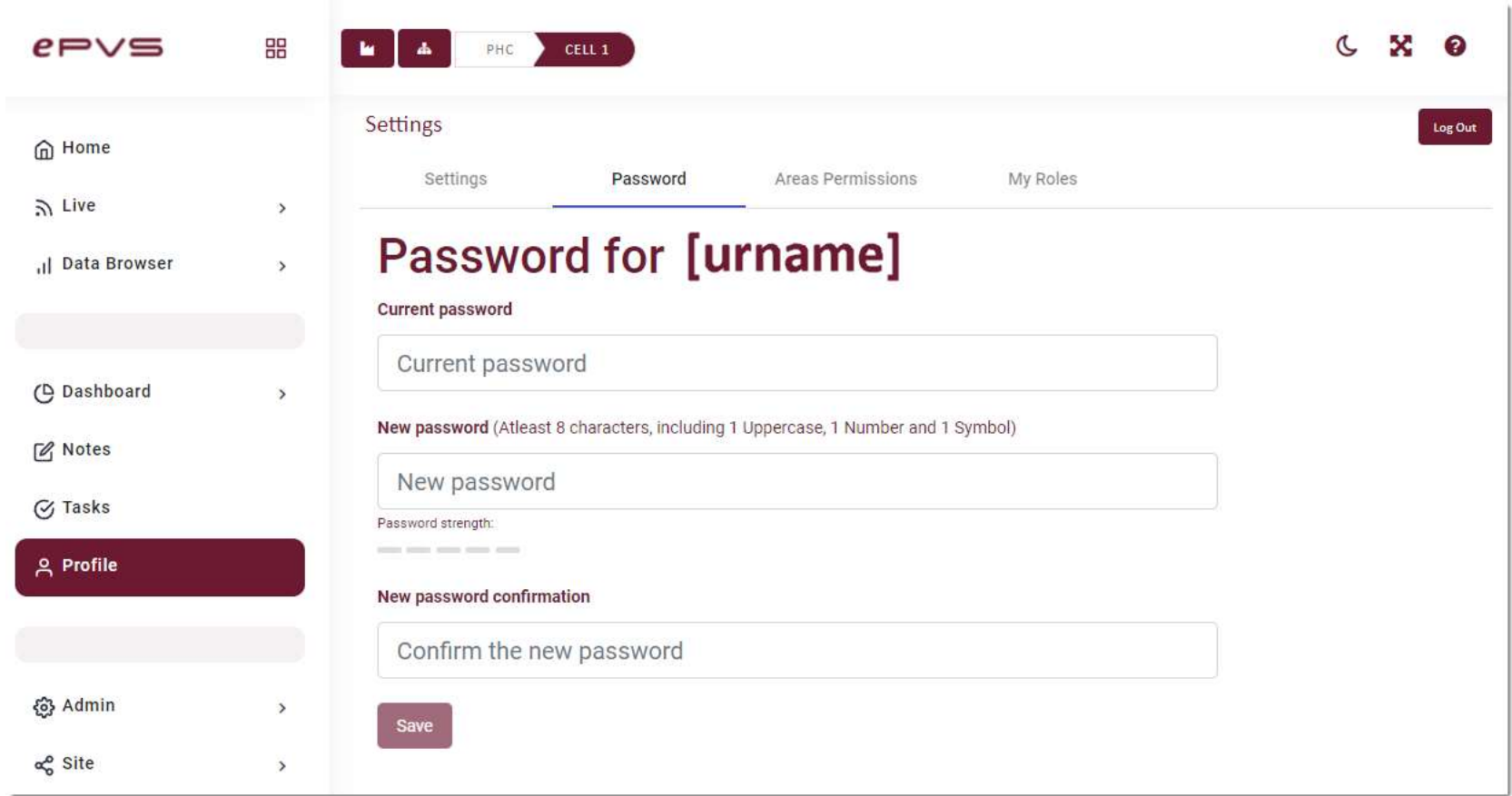
Change your Password

Once you have logged on with your initial password, or if you want to change your password, it can be done by going to the settings icon in the upper-right-hand side of the browser. Click on it. A drop-down menu will appear where you can select account settings.

The settings window will open. Select the password tab. Now enter your current password, then enter your new password. Enter the new password again for confirmation. Once it is correct, click the save button to complete.

Log Out

To Log Out of ePVS, simply go to the **Profiles** section an in the upper right-hand corner will be the **Log Out** button.



First Time Use Setup

- [Select an Installation](#)
 - [Select a Plant](#)
 - [Navigating the Object Tree](#)
 - [Object Tree Quick Links](#)
- For a demo of the [First Time Use Setup](#), [click here](#).

Upon the first use of the ePVS module, it will be necessary to connect to the correct installation and plant.

The section contains information and how to set up for the first time, and the various modules of the Home Screen.

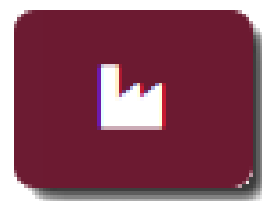
Here is a [video](#) on what is covered under this section, plus an introduction to the other Startup Page features.

To start, go to the Installation button in the upper part of the browser window, next to the Object Tree button.



This simulated view is at a Full Admin level. All plants and installations will display. Any other level will display your Installation/Plant only!

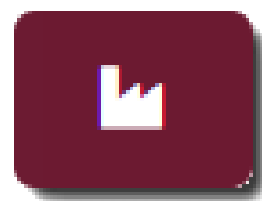
Clicking on it will open a window of the available installed installations in ePVS.



Select Customer/Installation/Plant ✕

- Acme \ ACME USA ▾
- AMT \ AMT Simulations ▾
- BSF \ BSF USA ▾
- Franklin \ Toledo_USA ▾
- Marcum \ Marcum-Milford ▾
- Willison \ Willison Truck AZ ▾

Select an Installation



Start by clicking on the Installation tab. This will reveal the included plants that have been created.

In this window, the customer's name will be placed next to the installation. Normally they will be one installation for a customer.

Clicking on the Customer/Installation title will reveal the available plants below in a drop-down selection.

Select Customer/Installation/Plant ×

Acme \ ACME USA ▼

AMT \ AMT Simulations ▲

Plymouth MI

BSF \ BSF USA ▼

Franklin \ Toledo_USA ▼

Marcum \ Marcum-Milford ▼

Willison \ Willison Truck AZ ▼

Select a Plant

Select the Plant you wish to view.

All the plants loaded in the ePVS browser will appear when the Installation Title is selected.

Some Installations can have multiple plants within the Installation, in several locations.

Once selected, the Object Tree window will open, and display the AREA object within the Plant selected.

AMT \ AMT Simulations ▲

Plymouth MI

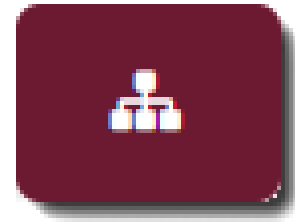
AMT \ AMT Simulations ▲

Toledo OH

Plymouth MI

Fort Wayne IN

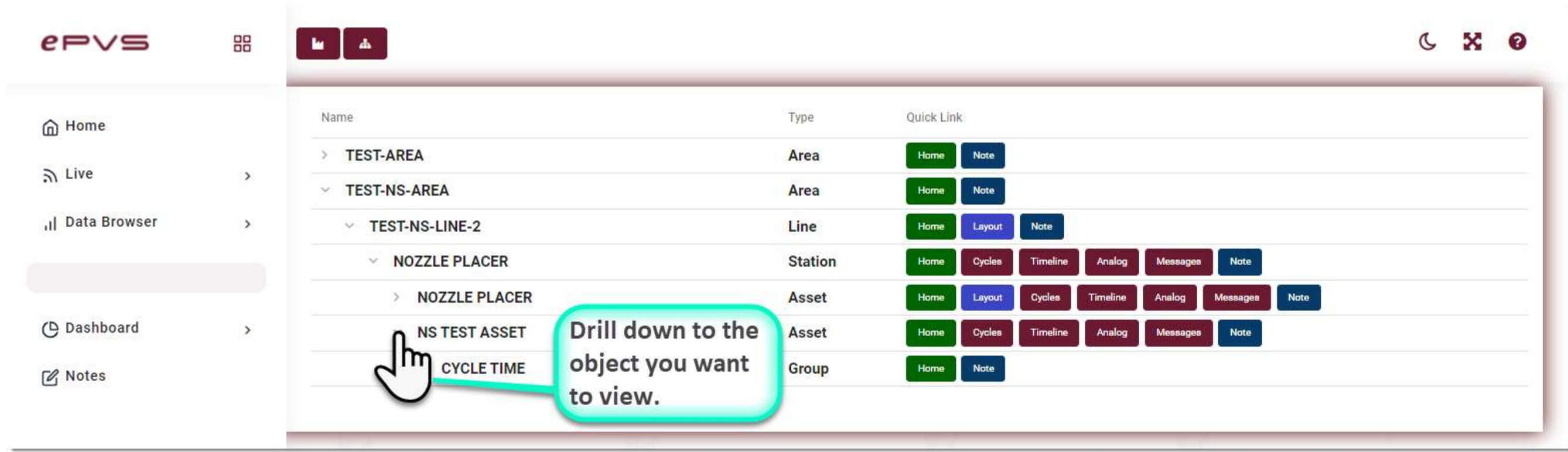
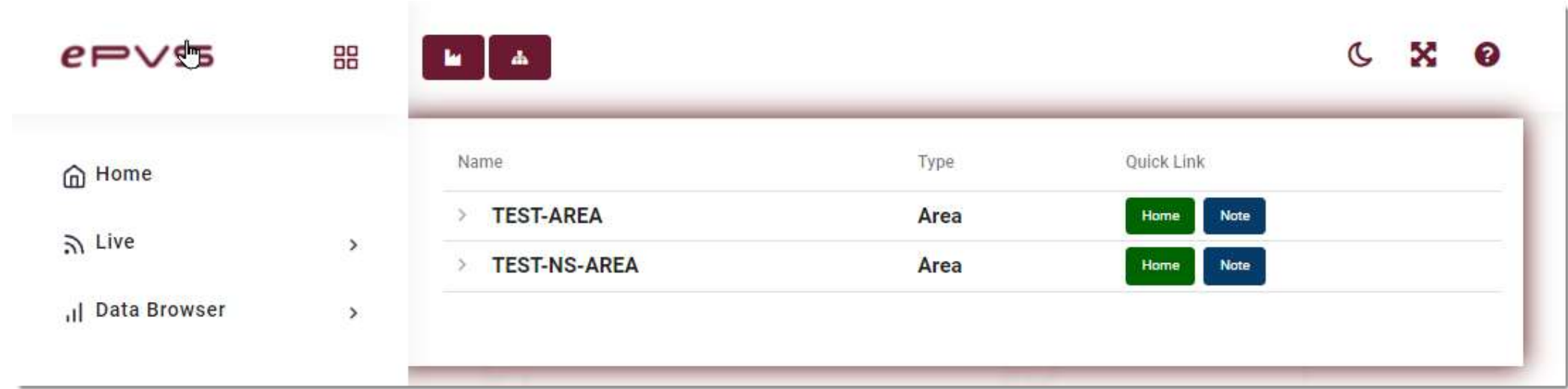
Navigating the Object Tree



The Object Tree window will initially display all the **Areas** objects within the plant.

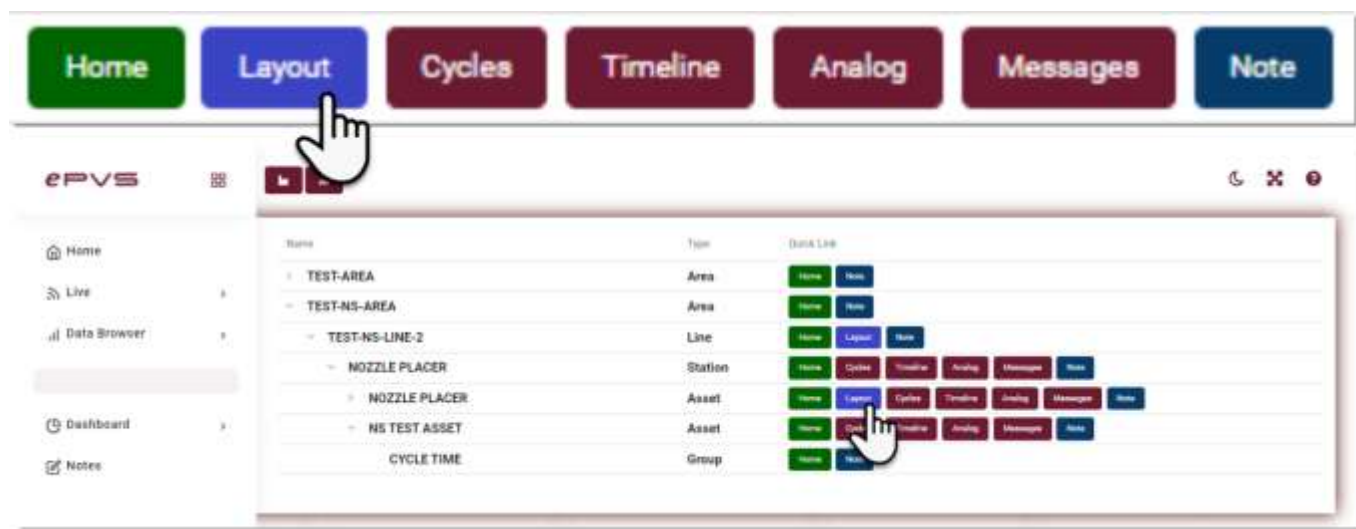
The object tree navigation window has columns for the Name, Object Type, and **Quick Links**.

Click the drop-down next to the Name of the object to drill down to a lower level and to the object you desire.



Object Tree Quick Links

To the right of every object will be the quick links selections.



Home



The home screen returns you to the Home Pages, however, your previous navigations will be kept in the Object Tree address string next to the Object Tree button.



Cycles

Cycles

The Cycles button will take you directly to the cycle browser window. From this window, it will initially display the history display panel which will allow you to select a cycle to view.



Timeline

Timeline

The Timeline button will take you directly to the Event Timeline module window. From this window, it will initially display the history display panel in a Sequence Timeline view, which will allow you to select a cycle to view.



Analog

Analog

The Analog button will take you directly to the Analog module for that object selected.



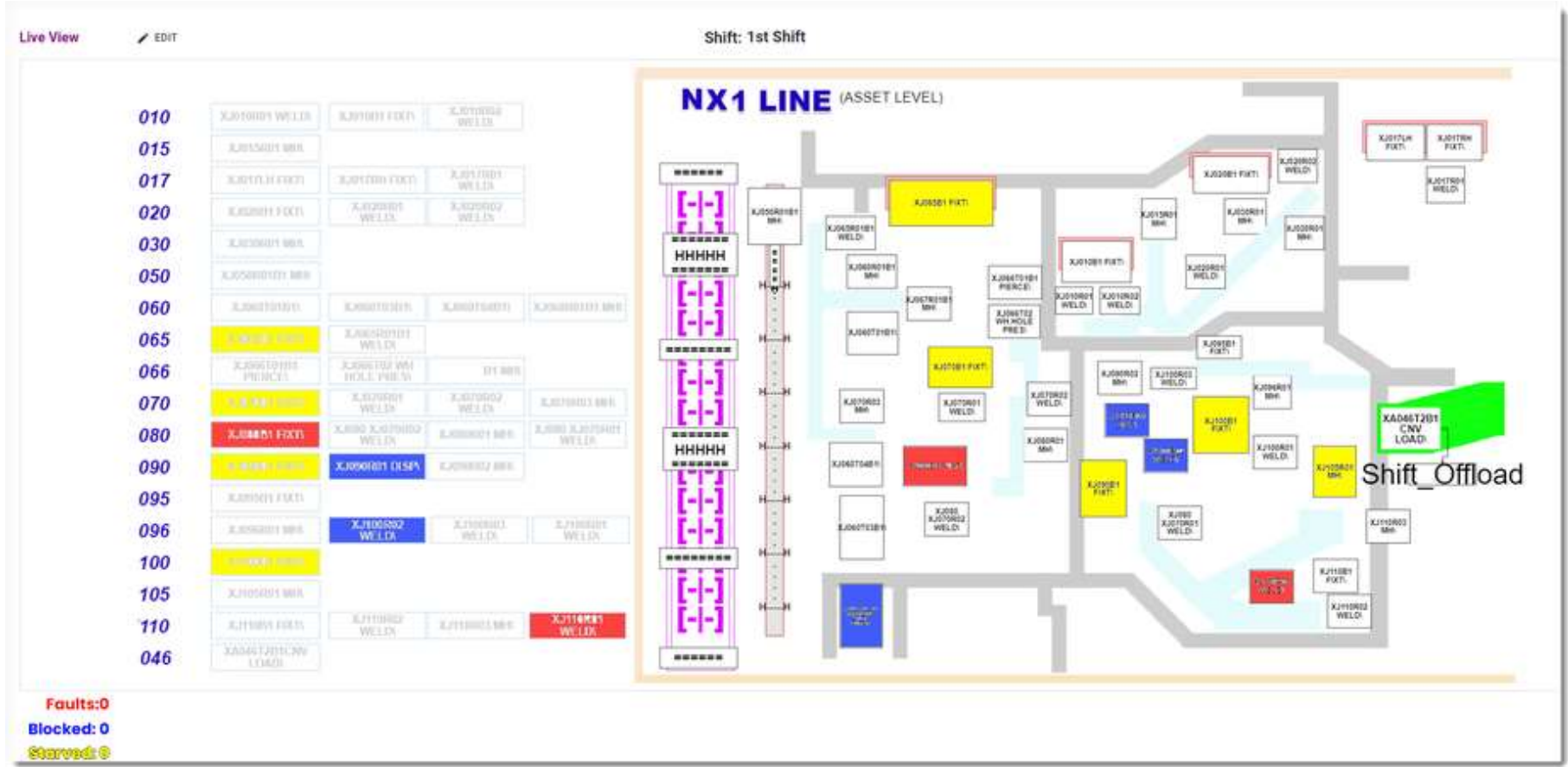
Layout

Layout

The Live View window is a real-time representation of the plant floor.

With this view, you see the Current Status of every Station/Asset in the plant in real-time.

Stations are updated automatically without having to refresh the window.



Messages

Messages

The Messages button will take you directly to the Messages module window. From this window, you will be able to view the messages that occurred to the select object.

Message History (Records: 221)

Search

Code	Message	System	Site	Area Name	Line Name	Station Name	Order Name	Description	Value					
STW0	ROBOT 2 - ASSET STAVED...	BEET_APHVLMNV	1	Area	10	NM4	9/15/2021 9:17 AM	2nd SHP	PHC	CELL 1	MAN	987,1	Staved	217.4220581800000
STW0	ROBOT 1 - ASSET STAVED...	BEET_APHVLMNV	1	Area	10	NM4	9/15/2021 9:21 AM	2nd SHP	PHC	CELL 1	MAN	987,1	Staved	22.402000040770007
STW0	ROBOT 1 - ASSET STAVED...	BEET_APHVLMNV	1	Area	10	NM4	9/15/2021 9:23 AM	2nd SHP	PHC	CELL 1	MAN	987,1	Staved	1.1980000400000000
STW0	ROBOT 1 - ASSET STAVED...	BEET_APHVLMNV	1	Area	10	NM4	9/15/2021 9:23 AM	2nd SHP	PHC	CELL 1	MAN	987,1	Staved	27.822000040000000
STW0	ROBOT 1 - ASSET STAVED...	BEET_APHVLMNV	1	Area	10	NM4	9/15/2021 9:24 AM	2nd SHP	PHC	CELL 1	MAN	987,1	Staved	254.254000040000000
STW0	ROBOT 1 - ASSET STAVED...	BEET_APHVLMNV	1	Area	10	NM4	9/15/2021 9:29 AM	2nd SHP	PHC	CELL 1	MAN	987,1	Staved	4.717999991001000
STW0	ROBOT 1 - ASSET STAVED...	BEET_APHVLMNV	1	Area	10	NM4	9/15/2021 9:30 AM	2nd SHP	PHC	CELL 1	MAN	987,1	Staved	100.010000040000000
STW0	ROBOT 1 - ASSET STAVED...	BEET_APHVLMNV	1	Area	10	NM4	9/15/2021 9:32 AM	2nd SHP	PHC	CELL 1	MAN	987,1	Staved	107.000000100000000
MDA	ROBOT 1 - NOT IN AUTO...	BEET_APHVLMNV	1	Area	10	NM4	9/15/2021 9:34 AM	2nd SHP	PHC	CELL 1	MAN	987,1	Mode Out of Auto	250.870000040000000
STW0	ROBOT 1 - ASSET STAVED...	BEET_APHVLMNV	1	Area	10	NM4	9/15/2021 9:35 AM	2nd SHP	PHC	CELL 1	MAN	987,1	Staved	301.401999940000000

Page 1 of 221 items

Notes

Note

The Notes button will take you directly to the Notes module window.

Notes

ADD NOTE ADD SUBSCRIPTIONS CURRENT SUBSCRIPTIONS

Live Notes Cycle Notes System Messages

TEST September 1st 2021, 9:02:29 pm

TEST

The Notes button will take you directly to the Notes module window. Notes button will take you directly to the Notes module window.

www

PHC

write your comment here

Save

Cycle time improvement May 10th 2021, 1:07:00 pm

Robot 2 in each cell is the most important asset in the cell. Once committed, we need to make sure it can finish its work without interruptions.

Currently, it can be waiting on the upper to finishing loading. We are committed Robot 2 too early.

PHCELL1AMMNB03

write your comment here

Save

Once your selection is made, you can now go to the home window.

The home window is a bubble chart that represents the plant, with an easy to glance and spot problems of the whole Factory or plant.



In this bubble chart, any object that is moving upward or to the right will be represented as an object of concern. Like going in the red.

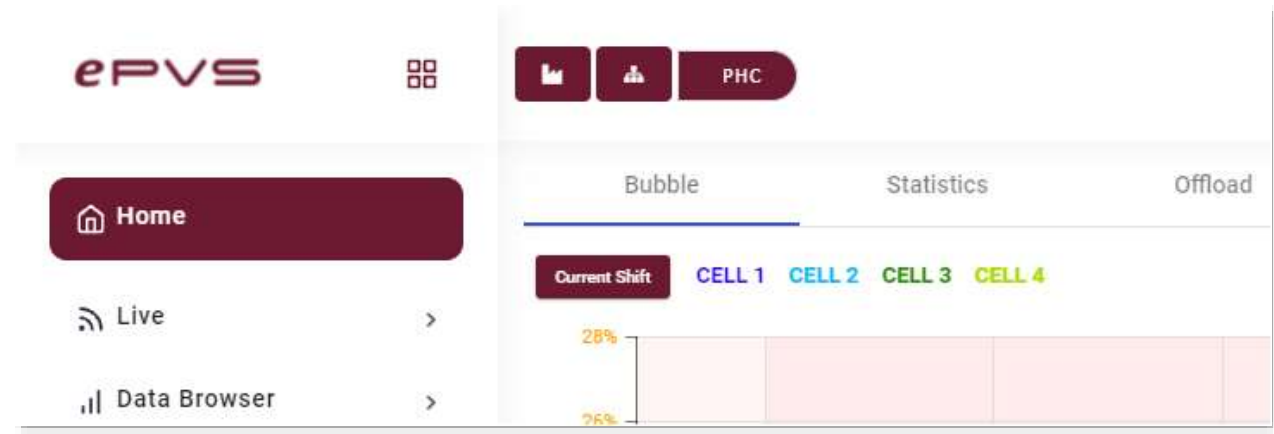
So, immediately, anything on the upper right-hand side would be viewed as a problem.

Top Menu Bar ePVS

- **Expand Main Menu Button**
- **Customer/Installation/Plant Button**
- **Object Tree Button**
- **Object Address String**
- **Current Object and Level**
- **High Contrast Mode**
- **Expand Window**

In this opening window, at the top of this browser is the top menu bar. On the Top Menu Bar, are various features of the ePVS browser. Below will be an explanation of each feature of the top menu bar.

This EPVS nameplate acts as a link to the home page. From anywhere in the browser, you can return to the homepage by clicking on this nameplate. It will remain at the same level object that was selected previously. As seen in the image below the date of the browser module button is highlighted. Clicking the nameplate has returned the user to the homepage.



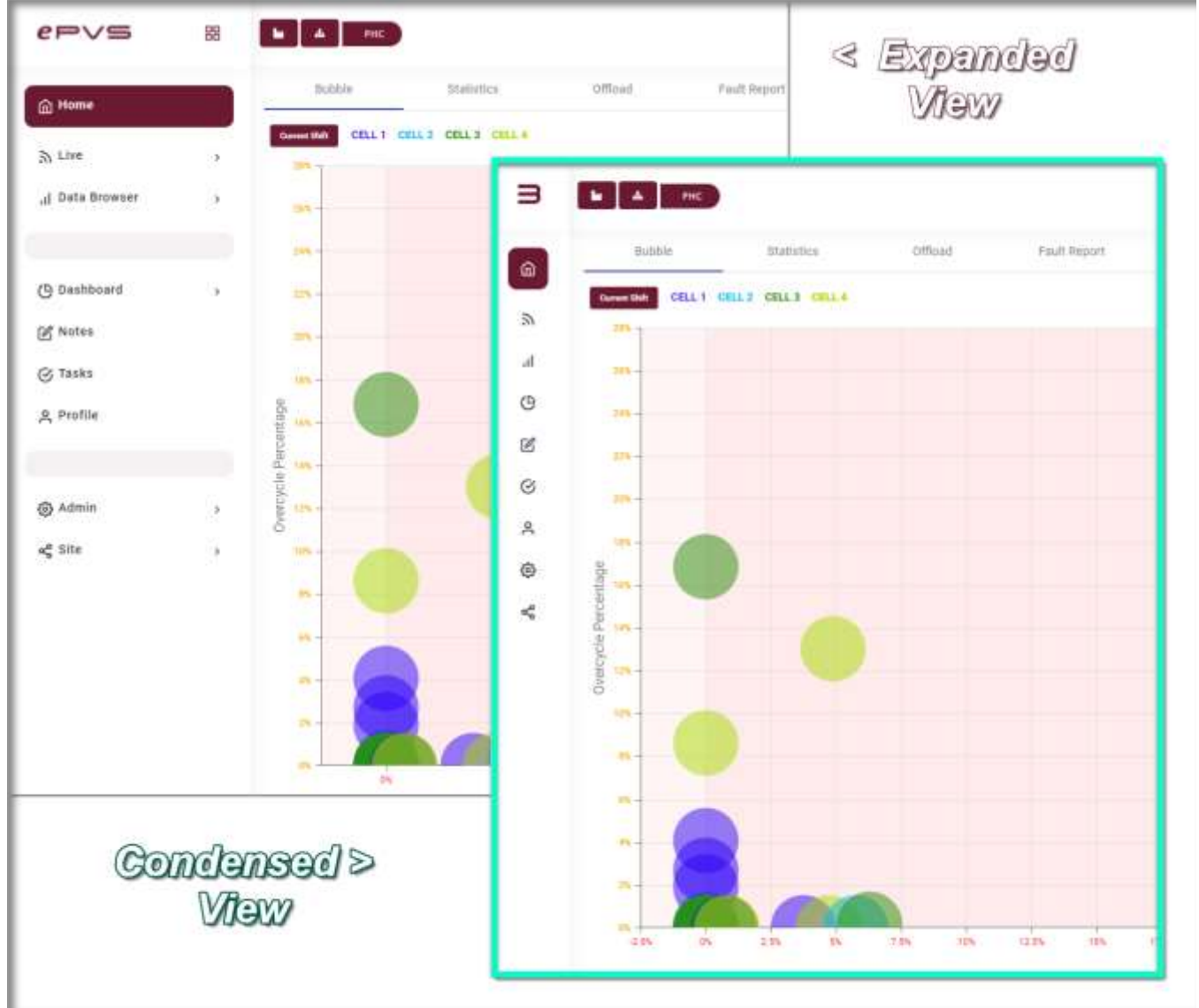
Expand Main Menu Button



This button is here to expand or condense the main menu button. In the expanded mode, the icon and the module title will be displayed taking up approximately 1/8 of the screen.

In the closed configuration, the menu will fall away to 1/32 of the browser window. This will allow a greater viewing area. If the user hovers over the closed configuration menu, it will momentarily expand and allow you to view the whole menu. Moving off it will allow it to auto condense to its closed configuration.

While expanded, click on the icon again to pin the expanded menu.



Customer/Installation/Plant Button



Start by clicking on the Installation tab. This will reveal the included plants that have been created.

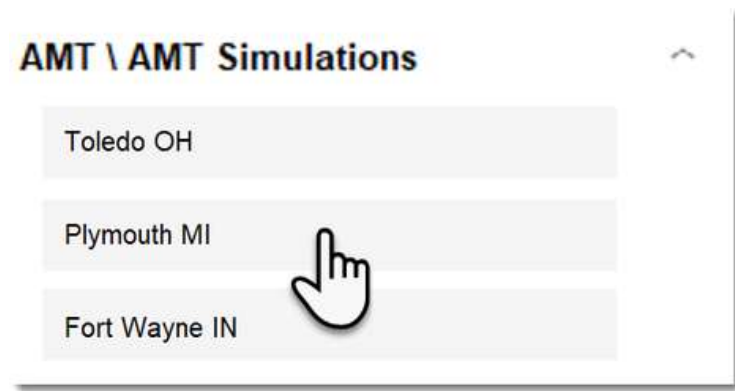
In this window, the customer's name will be placed next to the installation. Normally they will be one installation for a customer.



Clicking on the Customer/Installation title will reveal the available plants below in a drop-down selection.



In the event there are multiple plants, all the plants will appear below the Customer/Installation title. Select the plant of your choice.



Object Tree Button



Once a plant is selected from the customer installation window, the user now can select the Object Tree button.

Name	Type	Quick Link
> TEST-AREA	Area	Home Note
▼ TEST-NS-AREA	Area	Home Note
▼ TEST-NS-LINE-2	Line	Home Layout Note
▼ NOZZLE PLACER	Station	Home Cycles Timeline Analog Messages Note
> NOZZLE PLACER	Asset	Home Layout Cycles Timeline Analog Messages
▼ NS TEST ASSET	Asset	Home Cycles Timeline Analog Messages Note
CYCLE TIME	Group	Home Note

The Object Tree window will initially display all the Area objects within the plant.

The object tree navigation window does columns for the name of the type and some quick links to the right.

Click the drop-down have next to the title of the object to drill down to the object you desire.

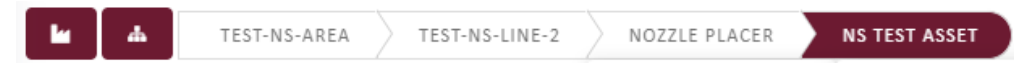
To the right of each object will display the type of objects you are selecting.

Navigation Sidebar:

- Home
- Live
- Data Browser
- Dashboard
- Notes

Name	Type	Quick Link
> TEST-AREA	Area	Home Note
▼ TEST-NS-AREA	Area	Home Note
▼ TEST-NS-LINE-2	Line	Home Layout Note
▼ NOZZLE PLACER	Station	Home Cycles Timeline Analog Messages Note
> NOZZLE PLACER	Asset	Home Layout Cycles Timeline Analog Messages Note
▼ NS TEST ASSET	Asset	Home Cycles Timeline Analog Messages Note
CYCLE TIME	Group	Home Note

Object Address String



The object address string will allow the user to navigate by bypassing the object tree and using the object address string.

Simply hover over the level you would like to view, and the selection of the lower-level object will appear below and allow you to expand out to your collection.

Current Object and Level

To the right of the Object Tree button, will be the current object selected.

This object string can be used to navigate. See [Object Tree Address String video](#).

The screenshot shows the BEET interface with a breadcrumb trail: TEST-NS-AREA > TEST-NS-LINE-2 > NOZZLE PLACER > NS TEST ASSET. Below the breadcrumb, there are tabs for 'Statistics' and 'Offload'. A dropdown menu is open under 'NOZZLE PLACER', showing a list of objects including 'CYCLE TIME', 'EXT NOZZLE MASK NS', 'RTC NOZZLE STOP PIN', 'RUN NOZZLE CV', 'EXT NOZZLE STOP PIN', and 'CHK NOZZLE MISPICK DETECT'. A callout box with a red border contains the following text:

The object address string will allow the user to navigate by bypassing the object tree and using the object address string.

Simply hover over the level you would like to view and the lower level objects selection will appear below, and allow you to expand out to your collection.

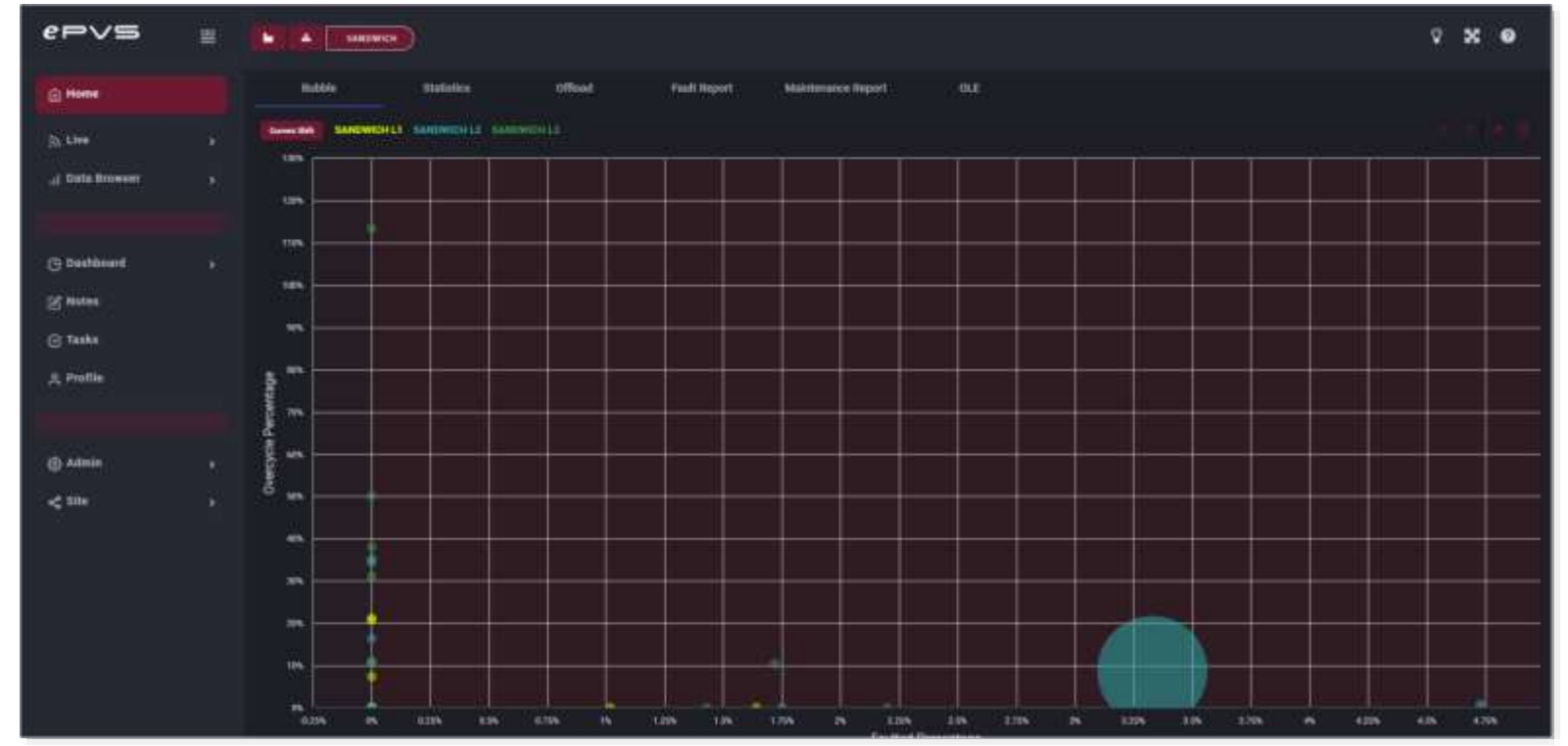
High Contrast Mode



The user now can go to high contrast or dark screen mode. Just simply click the Crescent Moon icon on the upper right-hand side next to the expand feature.



In High Contrast mode, you can click on the Lightbulb to go back to the Light View.



Expand Window



The Expand Window icon to the right will allow you to expand the page horizontally. By clicking on this expand window feature, the main menu will disappear into the left border.

To bring it back to the main menu, simply click on the expand window button again.



Main Menu ePVS

When logging into ePVS, you will be greeted by the What's Going On screen. There are several graphs available that provide critical object data in this window.

- Home
- Live
- Data Browser
- Dashboard
- Tasks
- Profiles

Data Browser

- Cycle Browser
- Event Timeline
- Messages
- Analog
- Messages - Bulk Download

Dashboard

- Gallery
- Favorites >
- System >

Live

- Layout
- Cycle

The screenshot shows the ePVS main menu sidebar. At the top is the 'ePVS' logo and a hamburger menu icon. Below it is a list of menu items: 'Home' (with a house icon), 'Live' (with a signal icon), 'Data Browser' (with a bar chart icon), 'Dashboard' (with a clock icon), 'Notes' (with a notepad icon), 'Tasks' (with a checkmark icon), and 'Profile' (with a person icon). There are also two empty light-colored bars at the bottom of the sidebar.

Home



The home button opens the Home page for ePVS. It will contain the latest posts from the previous users. It will also offer an option to view such as Bubble View, Statistics, Offloads, Distribution, and Live Cycle. Click on the image to the right for a demonstration on the [Home Screen \(Video\)](#).

For more information on the [Home Screen](#), [click here](#).



Live



The Live View window is a real-time representation of the plant floor. With this view, you see the real-time status of every Station/Asset in the plant in real-time. Stations are updated automatically without having to refresh the window.

For more information on Live, go to the [Live View section](#).



Data Browser

- Data Browser**
- Cycle Browser
- Event Timeline
- Messages
- Analog
- Messages - Bulk Download

The data browser provides graphical data on your processes' cycle status, including the machine heartbeat.

[Click Here](#) for more information on the [Data Browser](#).

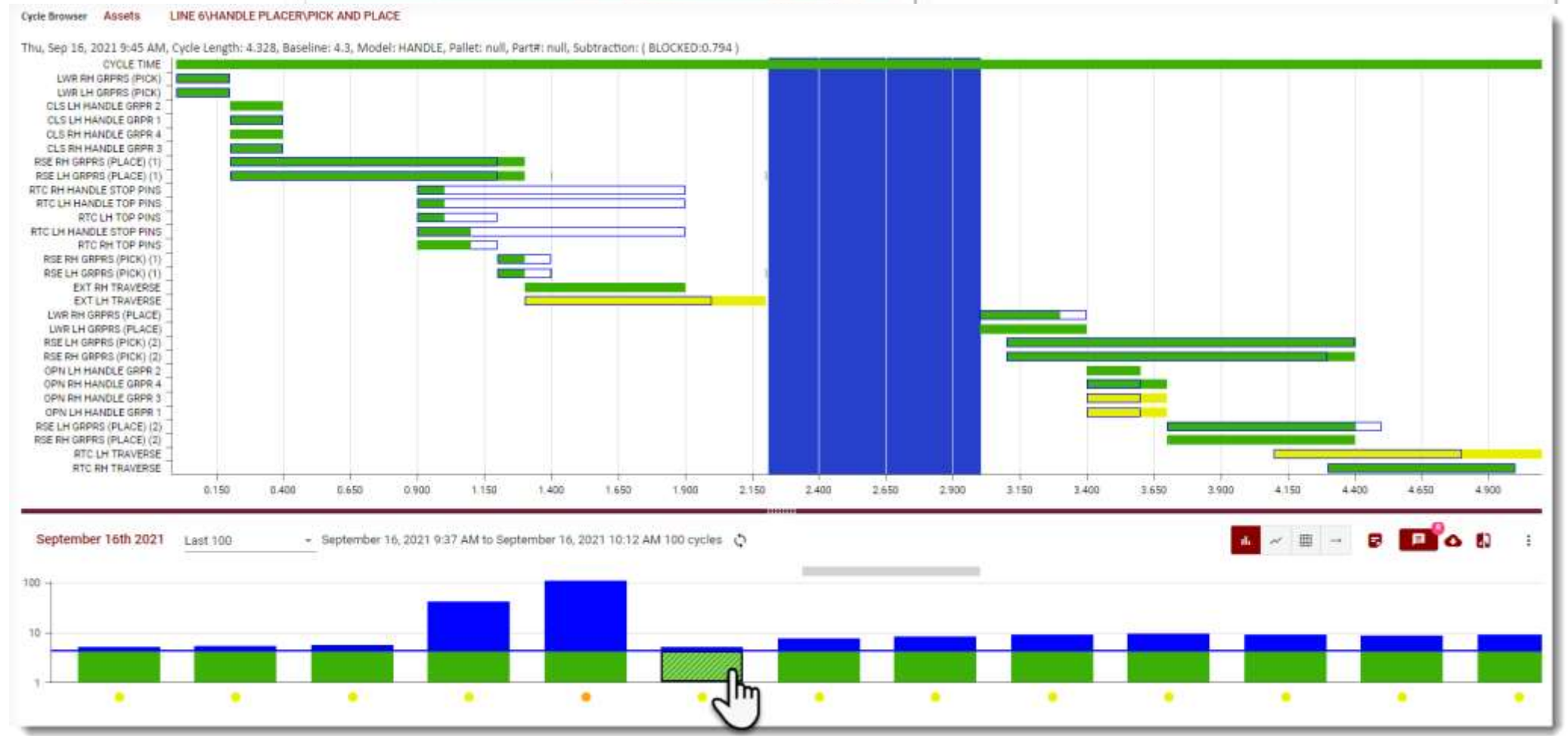
The data browser section contains the cycle browser, the event timeline, the messages module, and the analog user data.



Cycle Browser

The cycle browser provides graphical data on your processes cycle status, including the machine heartbeat. The Cycle Browser has two main displays, the Cycle View Upper display, and the History Display panel.

[Click Here](#) for more information on the [Cycle Browser](#).

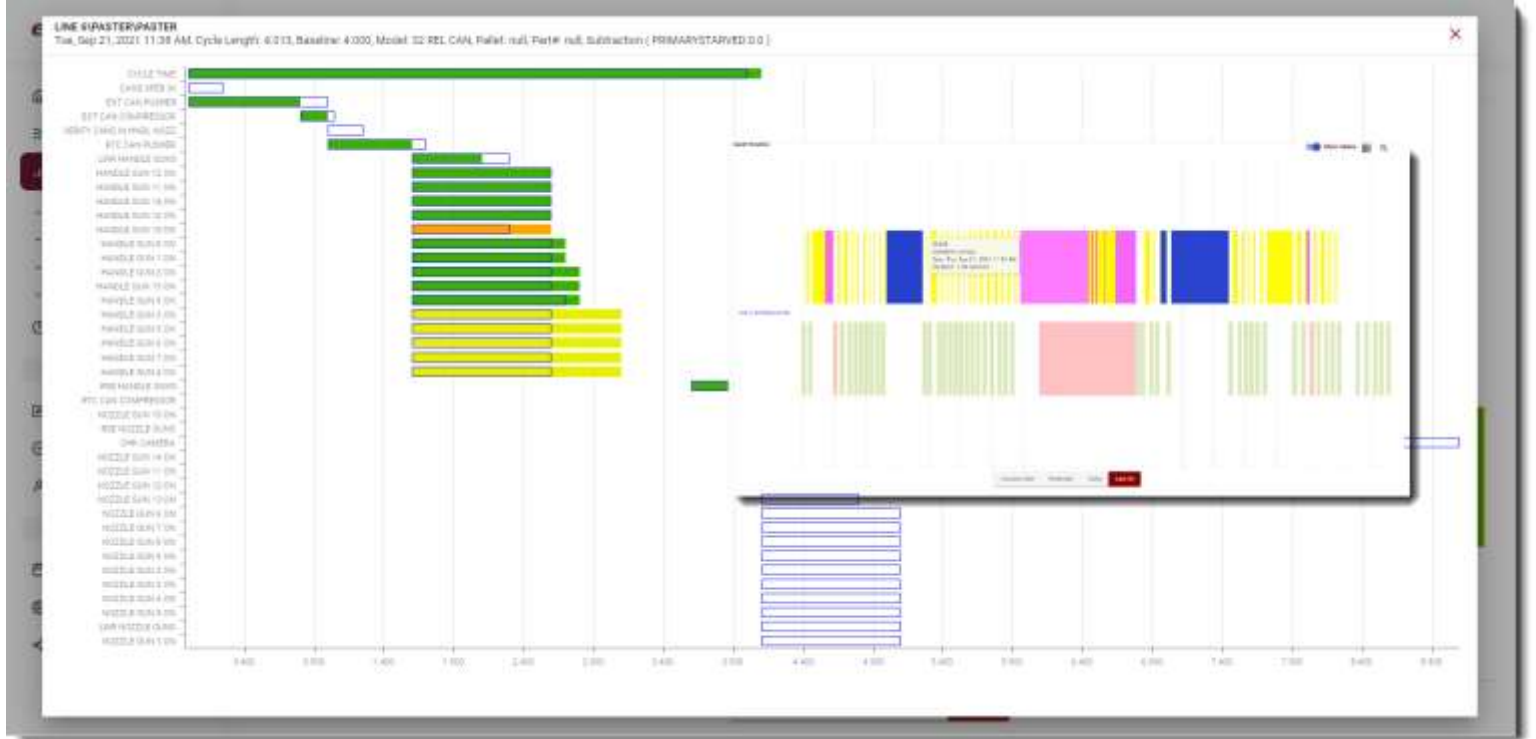


Event Timeline

The Event Timeline is a simplified version of the Cycle Browser, which limits the viewing only on a timeline, or sequential display.

In this browser the user can simply select and view of cycle from a History Display window, then with a selection, it will open an Event Timeline in the sequential view.

[Click Here](#), for more information on the [Event Timeline](#).



Messages

In the messages tab, the messages will display a table of all the message history. The table consists of several columns including Code, Message, Datetime, Shift, Article Name, Description, and the Delta parameter.

All these parameters can be sorted as well as the ability to drag and drop by the header, to group by that column.

[Click Here](#), for more information on the [Messages](#) section.

Message History (Records: 205) Choose a date
Apr 26, 2020 - Apr 27, 2020

Drag a column header here to group by that column 🔍 Search...

Code	Message	Datetime	Shift	Article Name	Description	Delta
FLTD_	Core Set Area Safety Door Ope...	4/27/2020	1st Shift	L3 FBO-3S	Faulted	85.144
FLTD_	Core Set Area Light CurtainFau...	4/27/2020	1st Shift	L3 FBO-3S	Faulted	18.07
ALARM	Mold Cycle Overtime-EnvUser...	4/27/2020	1st Shift	L1 FBO-3S	PLACEHOLDER	19.543
ALARM	Mold Cycle Overtime-EnvUser...	4/27/2020	1st Shift	L1 FBO-3S	PLACEHOLDER	13.696
BLKDN	System Blocked	4/27/2020	1st Shift	L1 FBO-3S	Blocked Down	36.414
ALARM	Mold Cycle Overtime-EnvUser...	4/27/2020	1st Shift	L1 FBO-3S	PLACEHOLDER	0.533
MOA_	System No Mode	4/27/2020	1st Shift	L1 FBO-3S	Mode Out of Auto	1.606
ALARM	Mold Cycle Overtime-EnvUser...	4/27/2020	1st Shift	L1 FBO-3S	PLACEHOLDER	16.941
FLTD_	Core Setter Position Fault-EnvU...	4/27/2020	1st Shift	L3 FBO-3S	Faulted	62.938
BLKDN	System Blocked	4/27/2020	1st Shift	L1 FBO-3S	Blocked Down	1.056
FLTD_	Core Setter Position Fault-EnvU...	4/27/2020	1st Shift	L1 FBO-3S	Faulted	9.009
BLKDN	System Blocked	4/27/2020	1st Shift	L3 FBO-3S	Blocked Down	403.822

Analog

Analog uses data that is continuous, and the goal is to capture a likeness of reality. The data of objects can be modeled in a spatial simulation, and real-time.

[Click Here](#), for more information on the [Analog browser](#).

The screenshot displays the 'Analog and User Values (181)' interface. On the left is a navigation sidebar with options: Home, Live, Data Browser (selected), Cycle Browser, Event Timeline, Messages, Analog, Dashboard, Notes, Task, Profile, Schedule, Admin, and Site. The main area contains three data charts:

- Top Chart:** 'Analog and User Values (181)'. Shows a signal fluctuating between 1.2K and 1.4K from 9:00 AM to 11:00 AM. A date selector is open, showing 'September 2021' with the 21st highlighted.
- Middle Chart:** 'DECLINE CV \ DECLINE CNV DRV \ DECLINE CNV DRV DC VOLT (USER)'. Records: 1421, Max Value: 641.0000, Min Value: 632.0000, Average Value: 636.7002. Shows a signal fluctuating between 630 and 645 from 9:00 AM to 11:40 AM.
- Bottom Chart:** 'DECLINE CV \ DECLINE CNV DRV \ DECLINE CNV DRV TEMP (USER)'. Records: 257, Max Value: 46.0000, Min Value: 44.0000, Average Value: 45.4825. Shows a signal fluctuating between 43 and 47 from 9:10 AM to 12:00 PM.

Dashboard

- Dashboard
- Gallery
- Favorites
- System

Within the Dashboard tab lies the Gallery, Favorites, and System Dashboards. The system dashboards are set up by BEET personnel. The user dashboards are configured by the actual users and tailored to their needs.

The screenshot displays the BEET software interface. On the left is a navigation sidebar with the following items: Home, Live, Data Browser, Dashboard (selected), Gallery, Favorites, System, Notes, Task, Profile, Schedule, Admin, and Site. The main content area is titled 'Dashboards' and contains several data visualization widgets:

- Average Asset Cycle Time:** A heatmap-style chart showing cycle times for various assets.
- Leak Test by Line:** A bar chart showing leak test results across different lines.
- Line 6 Leak Test and Handle:** A bar chart with a line graph showing leak test results for Line 6.
- Leak Test Fail Count and Rate:** A bar chart showing the number of failed leak tests and their rates.
- Mauser Cycle Data Check:** A line graph showing cycle data for Mauser equipment.
- Mauser Messages Check:** A table displaying a list of messages or logs.
- Mauser UserAnalog Data Check:** A complex chart showing multiple data series for user analog data.
- Mauser_Line 5 Summary Dashboard:** A summary dashboard for Line 5.
- Mauser_Line 6 Summary Dashboard:** A summary dashboard for Line 6.
- OverCycle Workbook:** A report titled 'OverCycle Workbook'.

Gallery

The gallery consists of all the dashboards created by the users, coaches, as well as BEET personnel.

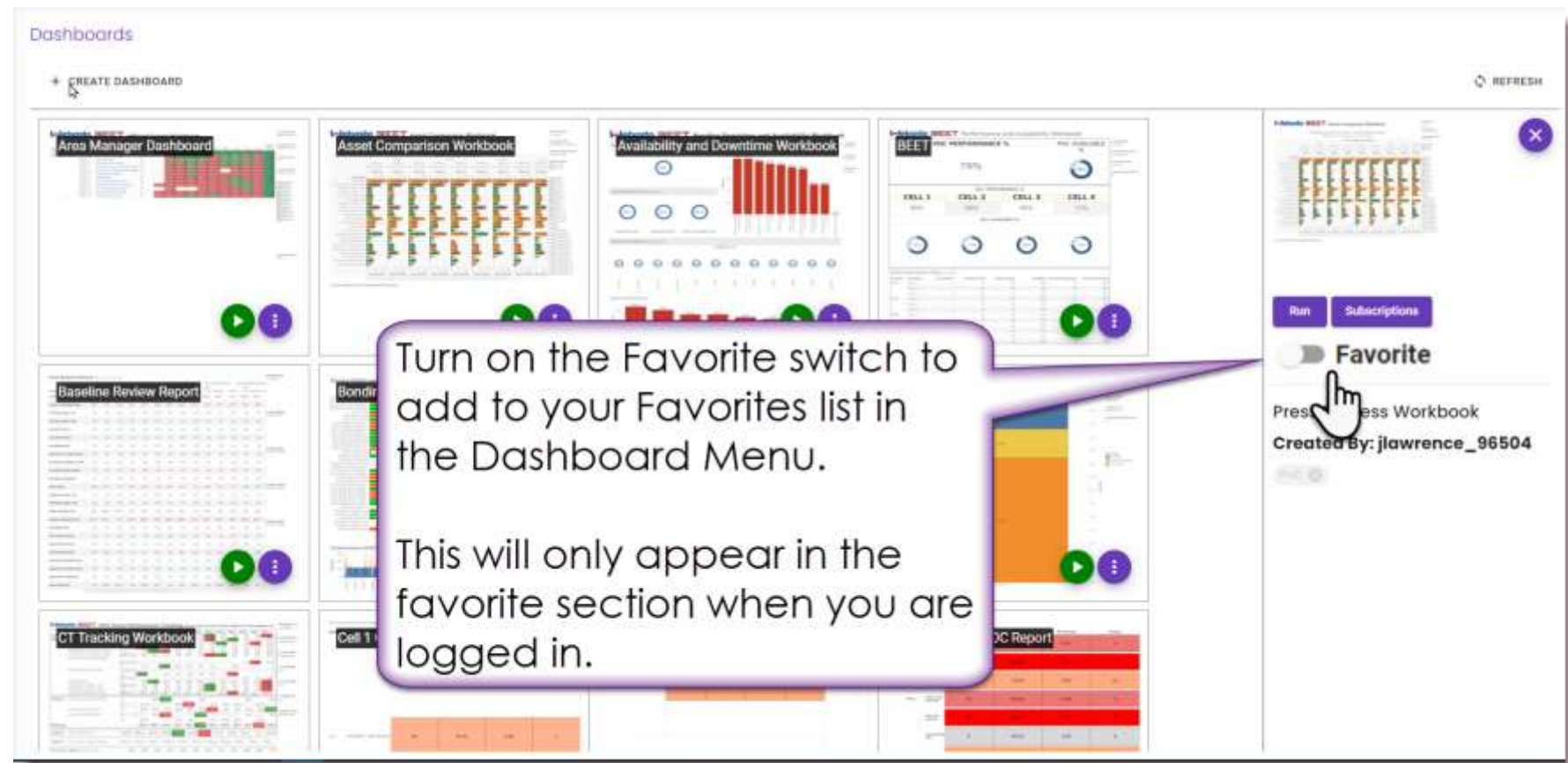


Favorites

The favorites are controlled by the user. The user can go to any dashboard in the gallery, then click on the three-dotted menu. From there an editing section will open to the right, with the name of detailed information about the dashboard. Or the user can click the three-line menu in the upper right-hand corner of the browser. Once open, simply click the **Favorites** switch. Now this dashboard will appear in the favorite section tab.

System

System dashboards are created by Beet Personnel, to be tailored to the customer's needs, as well as a standard collection of common dashboards.



Tasks

Below the Notes tab, is the Task Section tab. Upon opening, there will be a new window with a **+Create Task** button, on the upper-right side of the Task window (below the Task title).

[Click Here](#), for more information about the [Tasks](#) Module.

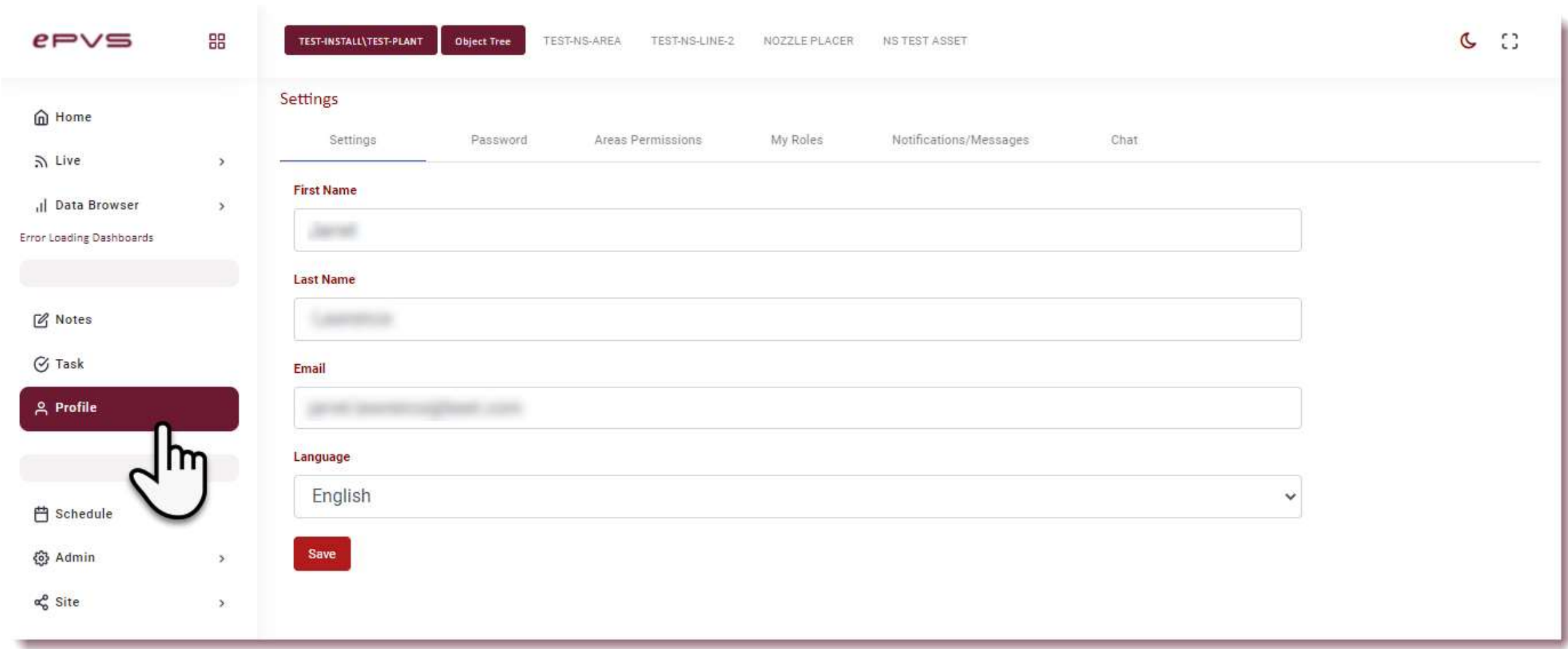
The screenshot displays the 'Tasks' module interface. At the top left, there is a '+ CREATE TASK' button. The main area is a Kanban board with four columns: 'Open', 'In Progress', 'In Review', and 'Done'. Each column contains a task card for 'TEST TASK 001'. The 'Open' card has a yellow border and a description: '-This is a test Task for Training purposes. This is only a test. TEST-AREA\TEST-LINE'. The 'In Progress' card has a green border and a description: 'This is a test Task for Training purposes. This is only a test. IN PROGRESS/ When the work is being started or performed, this Task Placard can be moved to the In progress section. That will show that it has been started or is In Progress TEST-AREA\TEST-LINE'. The 'In Review' card has an orange border and a description: '-This is a test Task for Training purposes. This is only a test. -IN PROGRESS/ When the work is being started or performed, this Task Placard can be moved to the In progress section. That will show that it has been started or is In Progress -IN REVIEW / When placed in the IN REVIEW, the Originator can review the work along with the Assignee, to determine if it can be moved to DONE or back to IN PROGRESS for more work. TEST-AREA\TEST-LINE'. The 'Done' card has a grey border and a description: '-This is a test Task for Training purposes. This is only a test. TASK IS COMPLETED- PLACED IN THE DONE SECTION TEST-AREA\TEST-LINE'. Each card also includes the text 'Administrator Administrator' and a timestamp.

Profiles

The profiles tab contains the information on the current user. It will contain the settings page which will we require a first and last name, and email address, and the language selection.

There's also an area for a password, area permissions, [My Roles](#), notifications/messages, and a chat section.

For more information go to the [profile section](#).





Schedule



The **Scheduling** menu allows you to set up and configure a schedule for multiple shifts it also will allow you to schedule production events such as preventative maintenance breaks and other reasons for a scheduled shutdown.



For more information on schedule click on this [link](#) or go to the [Scheduling](#) section.

Create or edit a Schedule Event Tue August 31st 2021

Name This field is required.

Label

Start Time End Time

Non Production Events +

Name	Label	Start	End
Lunch		11:00 AM	11:30 AM
Scheduled Maintenance		11:00 AM	11:30 AM

Planned Schedule

Target Efficiency

Is Disabled

Extend:

Objects (Please select an Area)

Object Tree Overview

- [Object Tree Descriptions](#)
- [Object Status Indicators](#)
- [ePVS Object Naming Guide](#)
- [Plant/Factory](#)
- [AREA](#)
- [LINE](#)
- [STATION](#)
- [ASSET](#)
- [Group](#)
- [OPS](#)
- [Tooling Group OP](#)
- [Robot Motion OP](#)



In ePVS, your plant is broken down into a hierarchy of manufacturing categories.

The Factory Plant defines the organizational tree down to the component level. The top 3 levels (Areas, Lines, and Stations) are used to organize the tree into a meaningful and friendly navigation structure. The lower 2 levels (Assets, Groups) are the data objects.

Name	Type	Quick Link					
▼ TEST-AREA	Area	Home	Note				
> TEST-LINE	Line	Home	Note				
▼ TEST-NS-LINE	Line	Home	Note				
▼ STA01	Station	Home	Cycles	Timeline	Analog	Messages	Note
▼ ASSET00	Asset	Home	Cycles	Timeline	Analog	Messages	Note
CYCLE TIME	Group	Home	Note				
Step #1	Group	Home	Note				

Object Tree Descriptions

AREA

The Area of the Plant where a particular assembled part is built (example: RWD and FWD Transmission Assembly Areas).

LINE

A section or place of the Area that is responsible for assembling a part of the assembly (Example: Internal and External parts assembly Lines).

STATION

A Station within the Line that is responsible for the collection of Assets (Example: Gear build, valve body, and torque converter build Stations).

ASSETS

Assets are used to define a repeatable set of motions/activities (Groups) that have defined Start and End signals (Example: Builds the Valve body and inspects/quality check assets).

GROUPS

A Group is a collection of OPS (individual motions/event data objects). Assets are a collection of Groups that describe a particular sequence of events that comprise one complete cycle for the Asset (Example: When a part enters On-Deck, then Part is present On-Deck, signal to show OP is complete).

Select the Object Tree button located next to the Customer/Insulation/Plant button. For information on the Customer/Insulation/Plant, click this **Link**.

The object tree window will open displaying all the available areas based upon your selection Plant selection.

Select the > drop-down box next to each object to further expand the areas. Continue to expand areas until you reveal the object you desire, then *click* on the Object to open the cycle browser. This will open the browser window with the last 100 cycles.

Name	Type	Quick Link
> TEST-AREA	Area	Home Note
> TEST-NS-AREA	Area	Home Note

Name	Type	Quick Link
▼ TEST-AREA	Area	Home Note
> TEST-LINE	Line	Home Note
▼ TEST-NS-LINE	Line	Home Note
▼ STA01	Station	Home Cycles Timeline Analog Messages Note
▼ ASSET00	Asset	Home Cycles Timeline Analog Messages Note
CYCLE TIME	Group	Home Note
Step #1	Group	Home Note
Step #2	Group	Home Note
Step #3	Group	Home Note
Step #4	Group	Home Note
Step #5	Group	Home Note
> STA02	Station	Home Cycles Timeline Analog Messages Note
> TEST-NS-AREA	Area	Home Note

Object Status Indicators

Paypoint

The indicator Paypoint (Pay Point) refers to the result of an actual product of a line when the last object is completed.

When the setup of a Pay Point is made, it is generally placed at the ASSET level objects. After it is set, ensure that the higher-level objects Pay Points are selected as well. Without performing this critical setup, the function of the Pay Point will not work.



Blocked

The object completes its work and is waiting for downstream objects to finish so the finished part can move out of the object.

Starved Point

The overall time the object is in a starved state.
 The object completed its job, and the produced part has exited the object. The object is waiting for the next part to start working.
 The overall time the object is in a starved state. The object completed its job, and the produced part has exited the object. The object is waiting for the next part to start working.

Has a Layout

This indicator shows that this object has a layout completed in the dashboard section of the ePVS module.

Name	Type	Quick Link
> SANDWICH	Area	Home Layout Note
▼ PHC	Area	Home Layout Note
▼ CELL 1	Line	Home Layout Note
> MAIN	Station	Home Layout Cycles Timeline Analog Messages Note
> PRESS_1	Station	Home Cycles Timeline Analog Messages Note
> PRESS_2	Station	Home Layout Cycles Timeline Analog Messages Note
> PRESS_3	Station	Home Cycles Timeline Analog Messages Note
> CELL 2	Line	Home Layout Note
> CELL 3	Line	Home Layout Note
> CELL 4	Line	Home Layout Note
> FINAL ASSEMBLY BONDING	Area	Home Layout Note

Layout

Once you've navigated to the object of your desire, you can now click on any of the modules to view the graphical and other informational data from one of the many modules of the ePVS Browser.

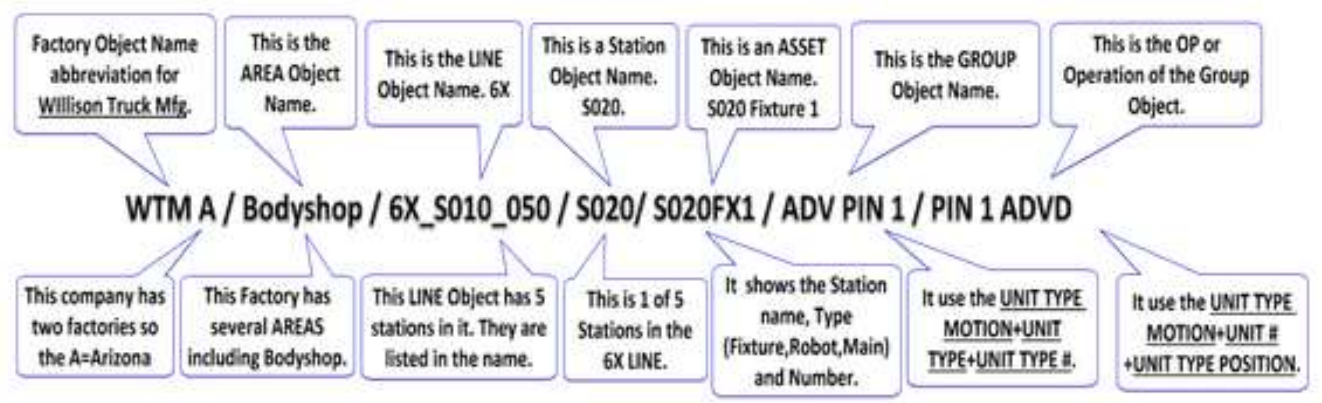
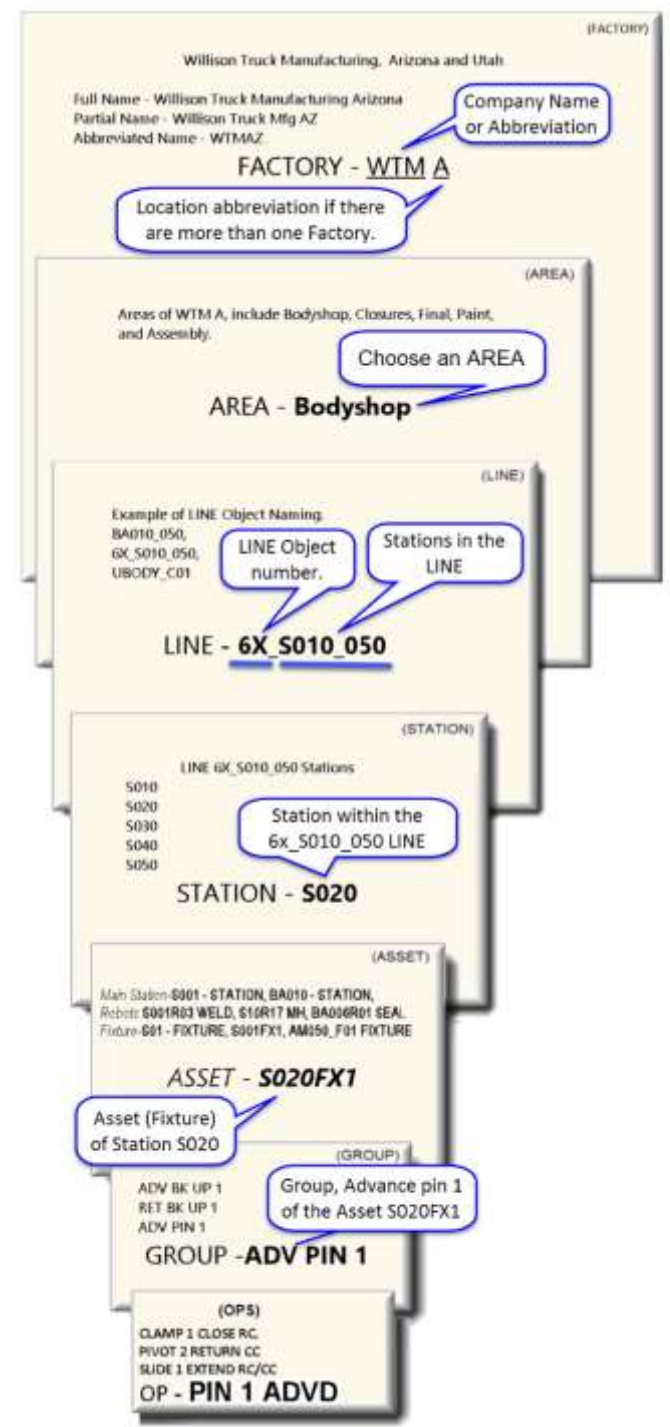
Click on the Cycle Browser button, on the Main Menu (left side), or the Quick Links to the right of the Object Tree to go to the Cycle Browser. Once selected, the Data Browser will open with the Last 100 cycles in the History Display Browser, displayed for that object selected.

The screenshot displays the EPVS Cycle Browser interface. On the left is a navigation menu with options: Home, Live, Data Browser, Cycle Browser (highlighted with a hand cursor), Event Time, Messages, Analog, Dashboard, Notes, Task, Profile, Schedule, Admin, and Site. The main content area shows a breadcrumb trail: PHC > CELL 1 > MAIN > RBT_2. Below this, a date range is set to 'September 14th 2021' for 'Last 100' cycles, from 'September 14, 2021 7:37 AM to September 14, 2021 11:36 AM'. A table lists various objects with their types and quick links. The 'RBT_2' row is highlighted, and a hand cursor points to its 'Cycles' link. A modal window titled 'Cycles' is overlaid on the table. Below the table is a bar chart showing cycle history with bars in green, blue, red, and yellow.

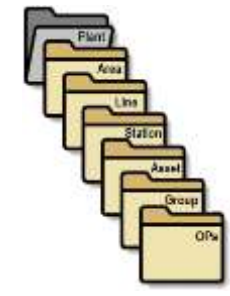
Name	Type	Quick Link
PHC	Area	Home New
CELL 1	Line	Home New
MAIN	Station	Home Cycles Timeline Analog Messages New
STOCKROOM_1	Asset	Home Cycles Timeline Analog Messages New
STOCKROOM_2	Asset	Home Cycles Timeline Analog Messages New
STOCKROOM_3	Asset	Home Cycles Timeline Analog Messages New
RBT_1	Asset	Home Cycles Timeline Analog Messages New
RBT_2	Asset	Home Cycles Timeline Analog Messages New
SPRAY RBT_3	Asset	Home Cycles Timeline Analog Messages New
SPRAY RBT_4	Asset	Home Cycles Timeline Analog Messages New
SPRAY BOOTH MIXER		Home New
PRESS_1		Home New
PRESS_2		Home New
PRESS_3		Home New
CELL 2		Home New
CELL 3		Home New
CELL 4		Home New
SANDWICH		Home New
FINAL ASSEMBLY BONDING	Area	Home New

ePVS Object Naming Guide

- ePVS Object Naming Guide
 - Plant/Factory** - **WTM A** _ Bodyshop _ 6X_S010_050 _ S020_S020FX1 _ ADV PIN 1 _ PIN 1 ADVANCED
 - AREA** - WTM A _ **Bodyshop** _ 6X_S010_050 _ S020_S020FX1 _ ADV PIN 1 _ PIN 1 ADVANCED
 - LINE** - WTM A _ Bodyshop _ **6X_S010_050** _ S020_S020FX1 _ ADV PIN 1 _ PIN 1 ADVANCED
 - STATION** - WTM A _ Bodyshop _ 6X_S010_050 _ **S020** _ S020FX1 _ ADV PIN 1 _ PIN 1 ADVANCED
 - ASSET** - WTM A _ Bodyshop _ 6X_S010_050 _ S020 _ **S020FX1** _ ADV PIN 1 _ PIN 1 ADVANCED
 - Group** - WTM A _ Bodyshop _ 6X_S010_050 _ S020_S020FX1 _ **ADV PIN 1** _ PIN 1 ADVANCED
 - OPS**- WTM A _ Bodyshop _ 6X_S010_050 _ S020_S020FX1 _ ADV PIN 1 _ **PIN 1 ADVANCED**
 - Tooling Group OP
 - Robot Motion OP



Plant/Factory



The Factory/Plant Object can be named after the Customer Name (Or Accepted Abbreviation) or Plant Name (Or Accepted Abbreviation). It is the highest-level object.
 When naming, keep it between 5 and 15 characters - no more than 20.

WTM A _ Bodyshop _ 6X_S010_050 _ S020_ S020FX1 _ ADV PIN 1 _ PIN 1 ADVANCED

The FACTORY for this example is the fictional Willison Truck Manufacturing (WT Mfg.). They make several versions of trucks. In this example, there are two factory locations, Arizona, and Utah. Selecting a Factory name could use the initials of the company name and the location if there are multiple sites.

- WTM A (Willison Truck Manufacturing) + A (Arizona). WTM A.
- WTM U for the Utah Factory.

(FACTORY)

Willison Truck Manufacturing, Arizona and Utah

Full Name - Willison Truck Manufacturing Arizona
 Partial Name - Willison Truck Mfg AZ
 Abbreviated Name - WTMAZ

FACTORY - WTM A

Company Name or Abbreviation

Location abbreviation if there are more than one Factory.

AREA



The Area Object is a Customer Designated Area, such as a Bodyside, Bodyshop, or another large part of a whole product. The Area Object is the "Child" under the Plant object.
 When naming the Area Object, it can be more than 1 - same punctuation rules as Plant. Example, Bodyshop and Framing.

Area - WTM A _ **Bodyshop** _ 6X_S010_050 _ S020_ S020FX1 _ ADV PIN 1 _ PIN 1 ADVANCED

In this factory, the manufacturer will have several areas that could be monitored. The Areas would be separated by the types or parts of a product they produce, such as Bodysides, Framing, Painting, Bodyshop, etc. For this, we would specify a particular AREA.

- Bodyshop
- Bodyside
- Framing

(AREA)

Areas of WTM A, include Bodyshop, Closures, Final, Paint and Assembly.

AREA BODYSHOP

Location abbreviation if there are more than one Factory.

LINE

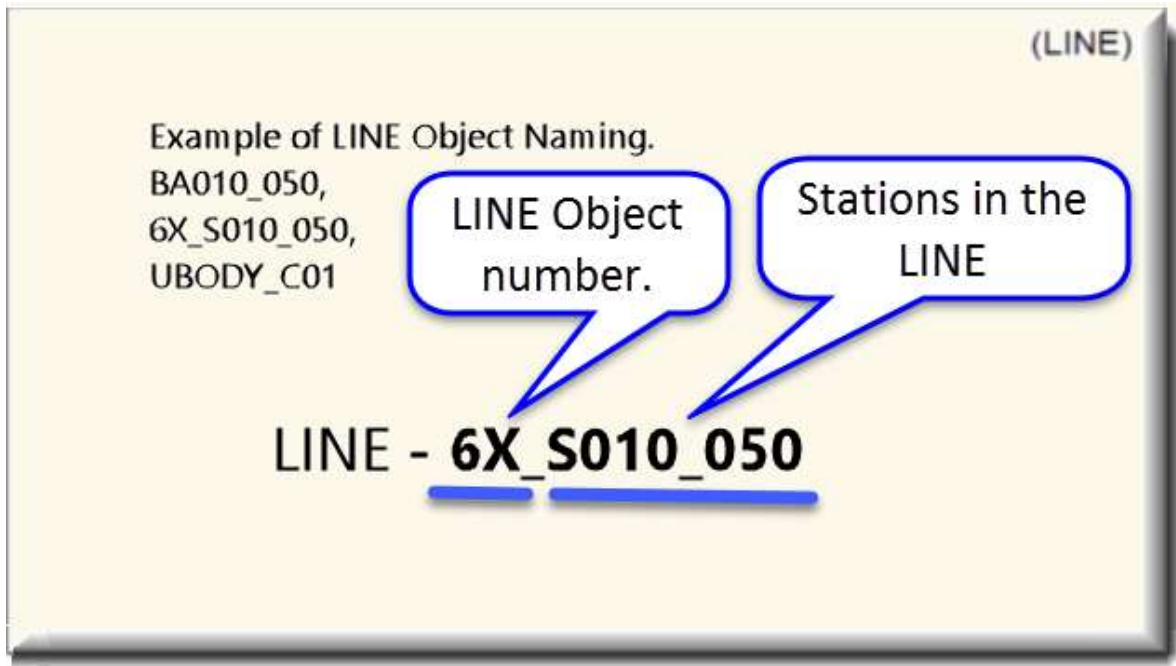


The Line Object is a Customer Designated Line Segment and Style of Station range, such as a 6X S010 or 6X S010-S050 (if there are multiple stations in one or more of the Line Objects). The Line Object is the "Child" under Area object. When naming the Line Object, it can be more than 1 - no more than 20 characters, stating a segment and a range of station (element) in the Line.

LINE Object - WTM A _ Bodyshop _ **6X_S010_050** _ S020 _ S020FX1 _ ADV PIN 1 _ PIN 1 ADVANCED

In the Bodyshop AREA, they may have multiple LINES. Each LINE has an abbreviated designation for them and the STATION or STATIONS in the LINE Name. If a line has two or more STATIONS within the LINE, you will want to use the LINE Number (6X) + the STATIONS (S010_050) included in that LINE. Note the examples below.

- BA010_050
- **6X_S010_050** (this line has multiple stations)
- UBODY_C01 (this LINE has only one station)



STATION

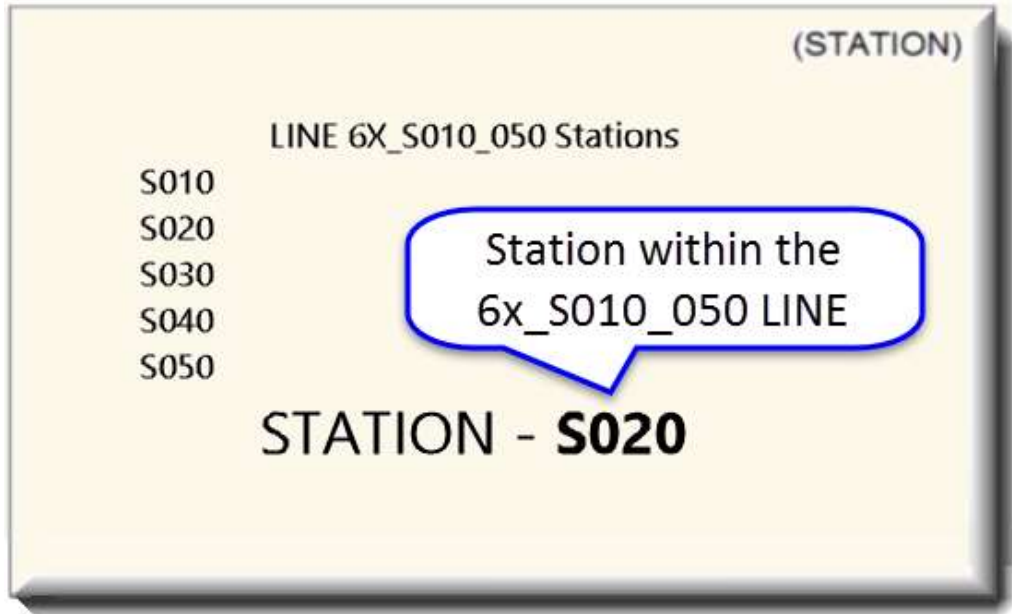


The Station Objects are Customer Designated Station number, usually in reference to the 2nd part of the Line Objects name (aka S020 which is part of the 6X S010-S050 Line Object or S010, S020, S030, S040, and S050). The Station Object is the "Child" under Line object. When naming the Station Object, there can be more than 1, to try to keep it around 10 characters.

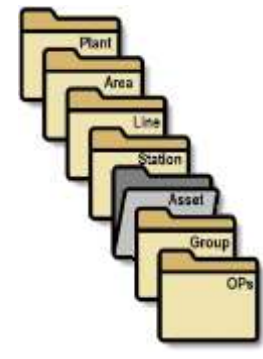
Station - WTM A _ Bodyshop _ 6X_S010_050 _ **S020** _ S020FX1 _ ADV PIN 1 _ PIN 1 ADVANCED

The STATIONS are the Child objects located in each LINE Object. Within the 6X S010-S050, there would typically be 5 (S010, S020, S030) stations in each LINE Object:

- S010
- S020
- S030
- S040



ASSET



The Asset Objects are Customer Designated Asset Name and a description of the type. It consists of Main Stations, Robot Stations, and Fixture Stations. Main Stations are Customer Designated Station Number. Robots are Numbers, Robot Number, and description. A Fixture is a station number. The Asset Object is the "Child" under Station object.

When naming the Asset Objects, they can be more than 1 - same punctuation rules as plant.

(ASSET)

Main Station-S001 - STATION, BA010 - STATION,
 Robots S001R03 WELD, S10R17 MH, BA006R01 SEAL
 Fixture-S01 - FIXTURE, S001FX1, AM050_F01 FIXTURE

ASSET - S020FX1

Asset - WTM A _ Bodyshop _ 6X_S010_050 _ S020 _ **S020FX1** _ ADV PIN 1 _ PIN 1 ADVANCED

The ASSET Object naming is a combination of the Station Name + Type of station it is (Main, Fixture, and Robot). You would name as follows:

S020FX1 (Station Name (S020)+ Fixture(FX) + Number(1))

Group



WTM A _ Bodyshop _ 6X_S010_050 _ S020 _ S020FX1 _ **ADV PIN 1** _ PIN 1 ADVANCED

The Group Objects are Tooling Group – [Unit Type] [Unit Type Number#][Unit Type Motion] Model Abbreviation. The Group Object is the "Child" under Asset object. There can be several Group objects, so use no more than 20 characters.

Group Objects naming is typically made up from 2 group types (Tooling and Robot Motions) and 3 descriptors (Unit Type Motion, Unit Type, and Unit Type Number).
 Tooling Group (Example - ADV PIN 1

(GROUP)

ADV BK UP 1
 RET BK UP 1
 ADV PIN 1

GROUP -ADV PIN 1

[Unit Type Motion] + [Unit Type] + [Unit Type Number#]



Unit Type Motions:

ADVANCE RETRACT EXTEND
RETURN ENGAGE RAISE
CLOSE DISENGAGE RETRACT
OPEN LOWER

Unit Types:

PIN BACKUP
CLAMP VACUUM
DUMP PIVOT
SLIDE

Unit Type Numbers:

1, 2, 3, etc., dependent on how many of the
type that are present in the group.

Robot Motion Group:	
"GO TO" Work Type Position:	"MOVE" Work Type Position
POUNCE	CLEAR OF PICK
PICK	CLEAR OF DROP
DROP	CLEAR OF PED
1ST RIVET/FDS 2ND, LAST	CLEAR OF FIXTURE
PEDESTAL	HOME

"GO TO" Work Type Position:

POUNCE

PICK

DROP

1ST RIVET/FDS 2ND, LAST

PEDESTAL

"MOVE" Work Type Position

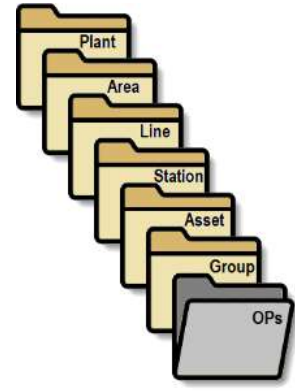
CLEAR OF PICK

CLEAR OF DROP

CLEAR OF PED

CLEAR OF FIXTURE

HOME



OPS

The OPS or Operations objects are the "Child" objects of the Group Object. There may be at least 1 but no more than 16 for any one Group –use no more than 29 characters when naming the OPS. The naming of a Tooling Group OP typically consists of a Unit Type Abbreviation, a Unit Number, and a Unit Type Position Abbreviation.

OPS- WTM A _ Bodyshop _ 6X_S010_050 _ S020_ S020FX1 _ ADV PIN 1 _ **PIN 1 ADVANCED**

(OPS)

CLAMP 1 CLOSE RC,
PIVOT 2 RETURN CC
SLIDE 1 EXTEND RC/CC
OP - PIN 1 ADVD

Tooling Group OP

The naming of a Tooling Group OP typically consists of a Unit Type Abbreviation, a Unit Number, and a Unit Type Position Abbreviation. The full spelling can be used, however, if the OP has a long descriptor, it may be advisable, to use an abbreviation.

Unit Type Abbreviation:	Unit Type Number:	PIN 1 ADVD Unit Type Position Abbreviation:
PIN (Pinned) CLP (Clamp) DMP (Dumped) SLD (Slide) BKUP (Back Up) VAC (Vacuum) PVT (Pivot)	1, 2, 3, etc. Depending on the amount of the same Ops that a present.	Advanced = Advd Returned = Retd Closed = Clsd Opened = Opnd Extended = Extd Retracted = Rtd Engaged = Engd Disengage = Dsng Lowered = Lwr Raised = Rsd

Robot Motion OP

The OP also uses Robot Motions stated as Work Type Position in the naming. These are "AT" and "CLEAR OF".

AT consists of:	CLEAR OF consists of:
POUNCE PICK DROP 1ST RIVET/FDS 2nd LAST PEDESTAL HOME AT POUNCE	PICK DROP PED FIXTURE CLEAR OF FXT

Home Screen



When first opening the ePVS module, the first screen you'll see is named the Home screen. On this screen, it will display the notes that were posted earlier on. The latest note will be atop of the others. On the upper right-hand side of the Home page is a menu that will allow you to change to Dark Mode, and Full-Screen mode.

- [Current Shift \(Date Menu\)](#)
- [Select a single day](#)
- [Select Multiple Days](#)
- [Home Screen Views](#)
- [Bubble View](#)
- [Hovering over an Object](#)
- [Selecting an Object](#)
- [Summary View](#)
- [Line Balance](#)
- [Statistics](#)
- [Offload](#)



Home Window Demonstration

Current Shift (Date Menu)

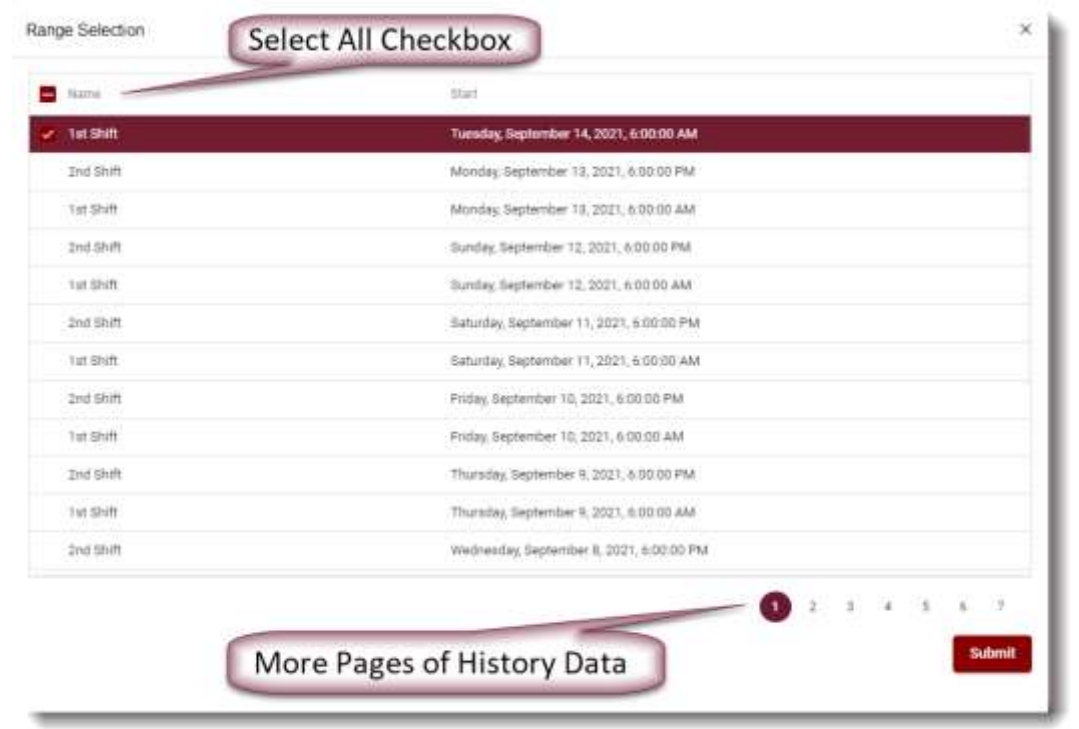


The Current Shift date menu is in the upper left-hand side of the viewing window. Clicking on it will open the Range Selection window. It is here where the user can select multiple days or a day.

The date column will contain the last several days with the option to select a single day, multiple days, or a Select all feature.

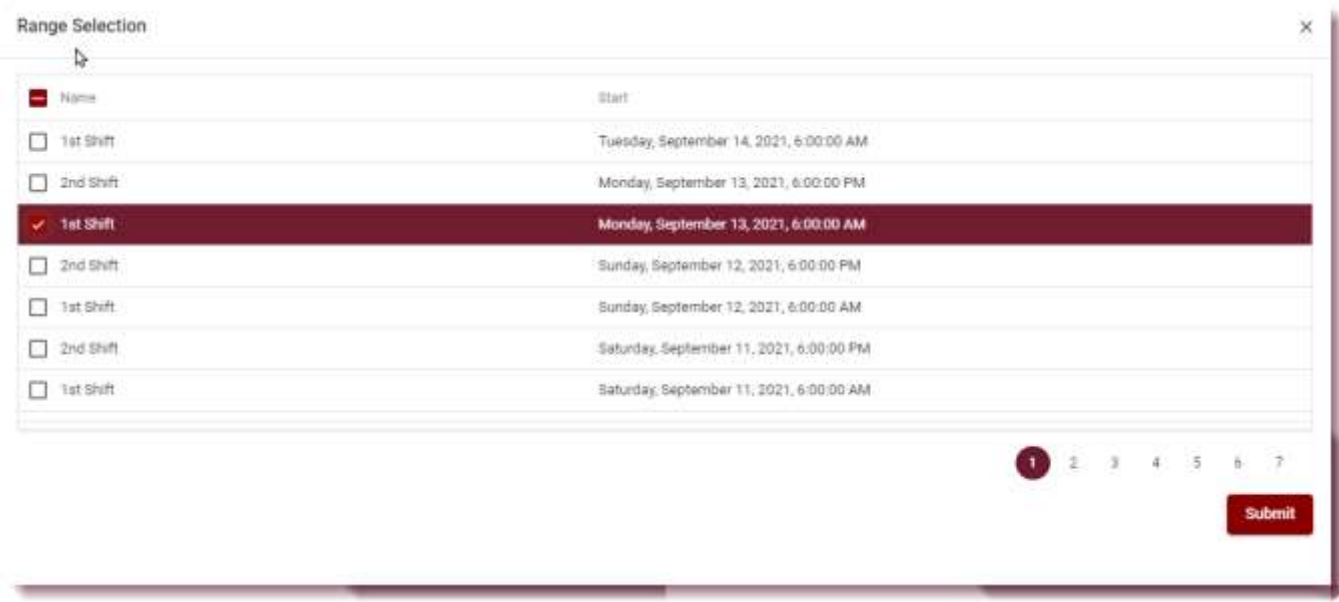
On the lower right-hand side will be more pages for a further reach into the historical data.

Make your selection then click the **Submit** button.



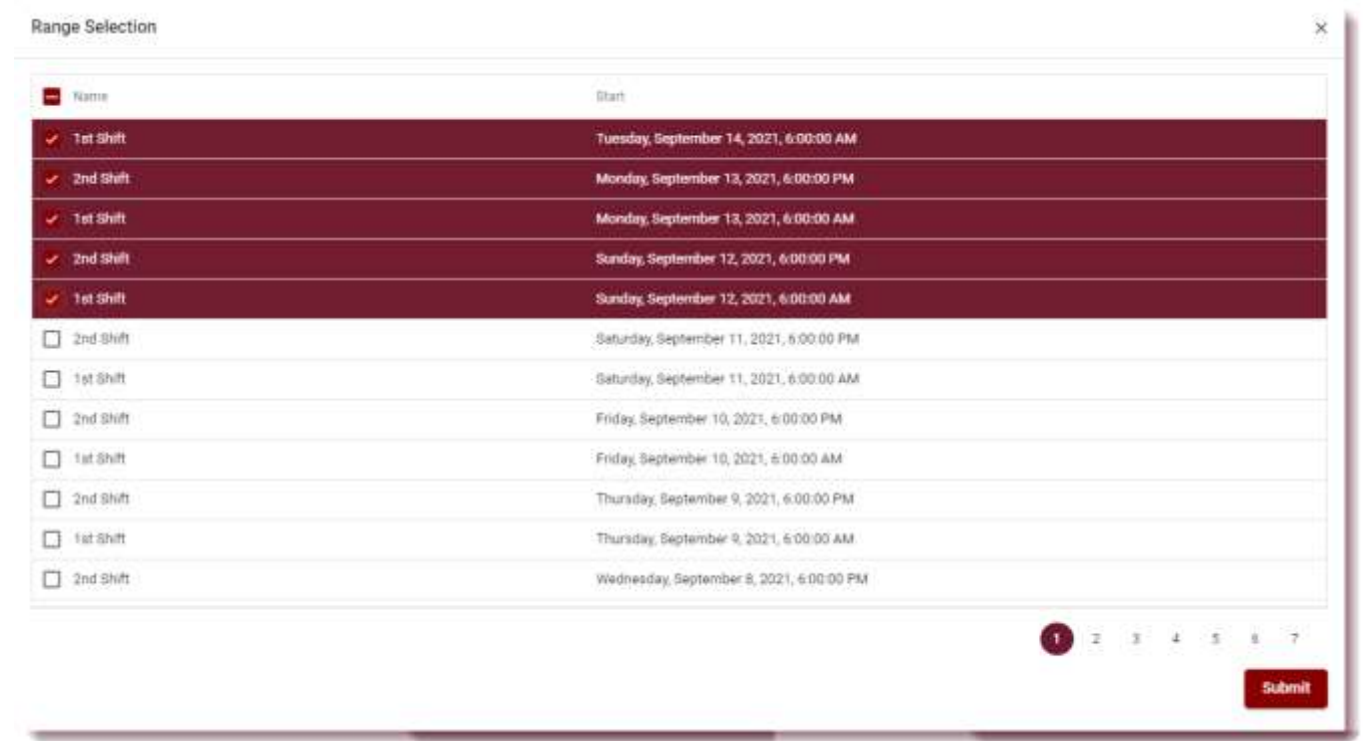
Select a single day

Select any day from the list.



Select Multiple Days

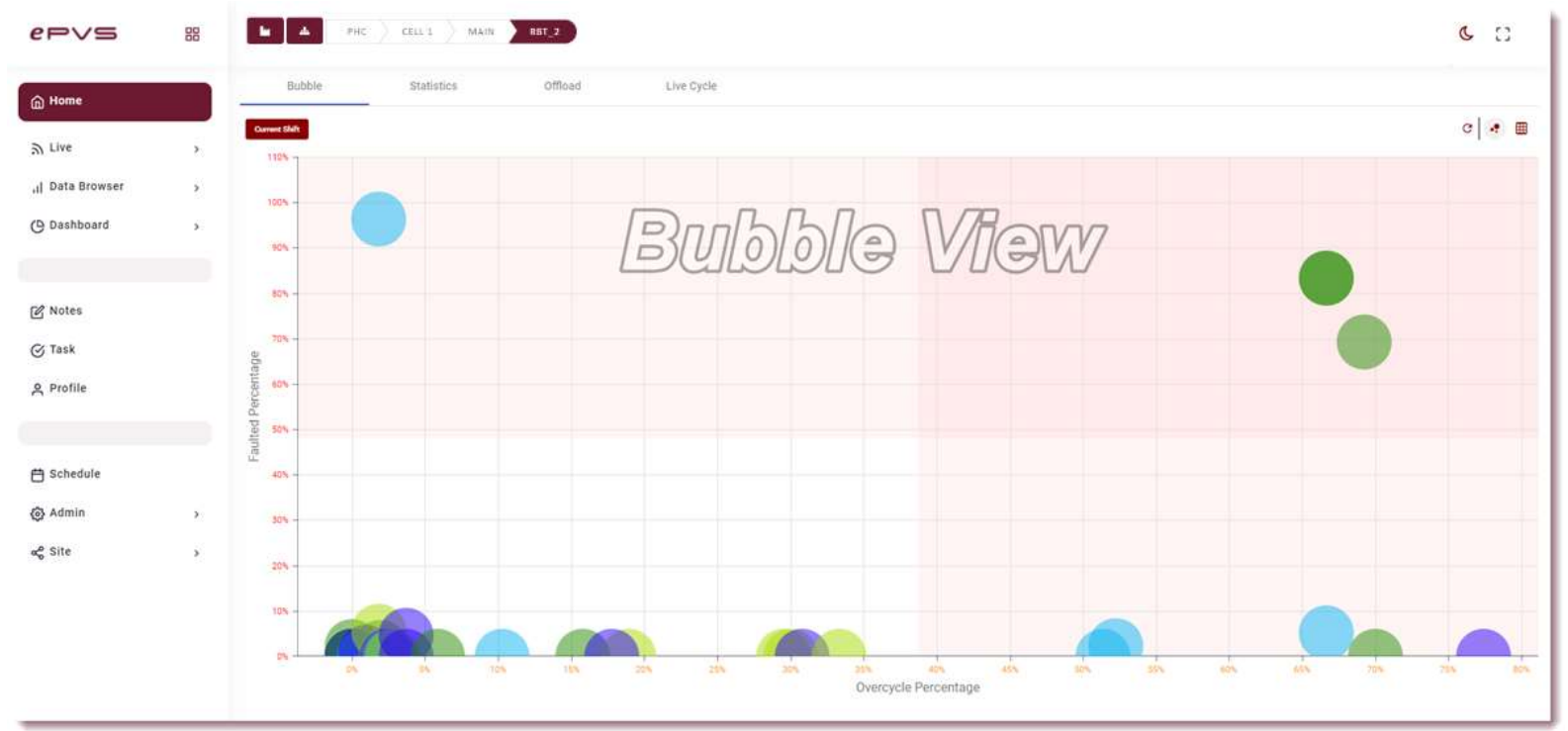
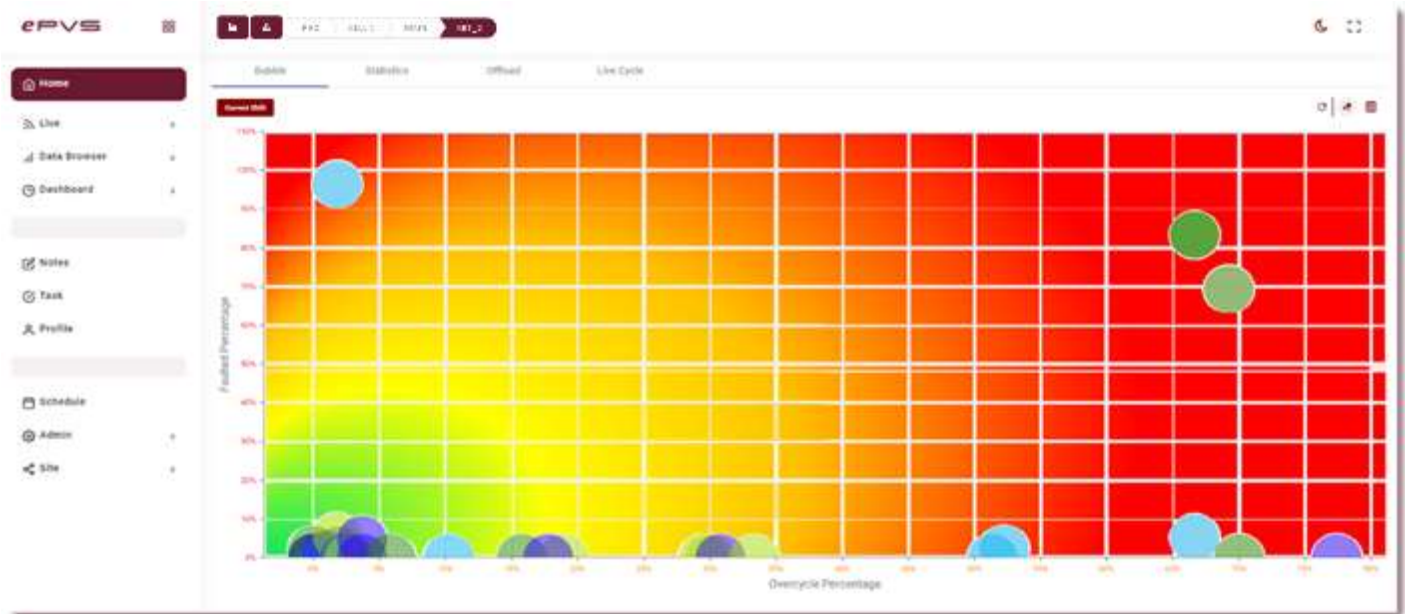
The user can also select multiple days by simply selecting different days on the list.



Home Screen Views

Bubble View

In this bubble chart, any object (colored dot) that is moving upward or to the right will be represented as a problem. Like going in the red. So, immediately, anything on the upper right-hand side would be viewed as a problem.



Bubble View

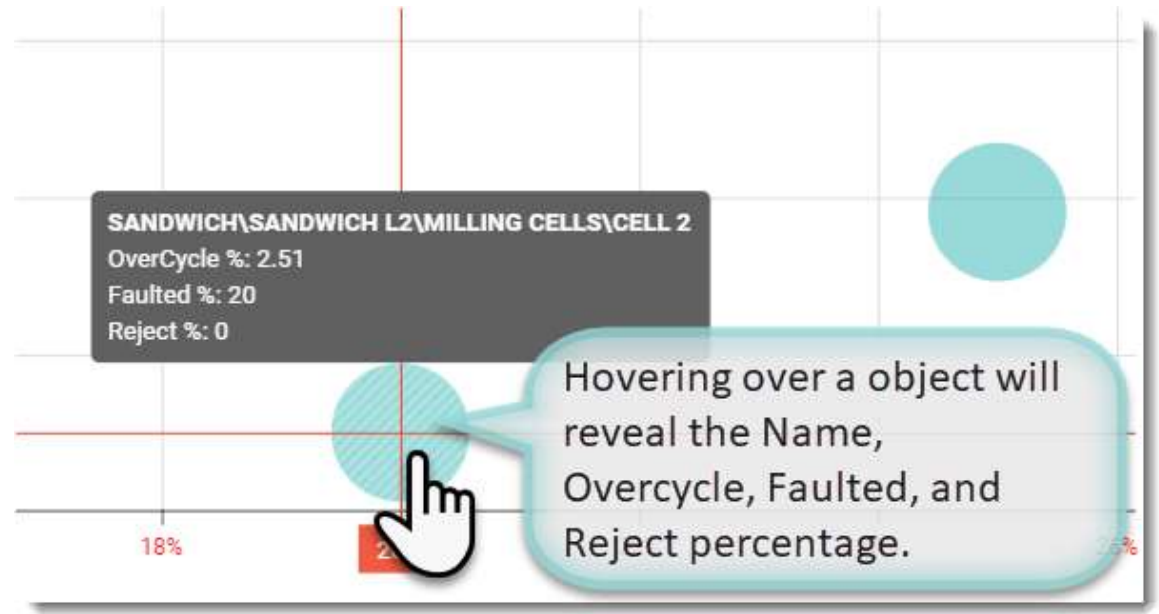
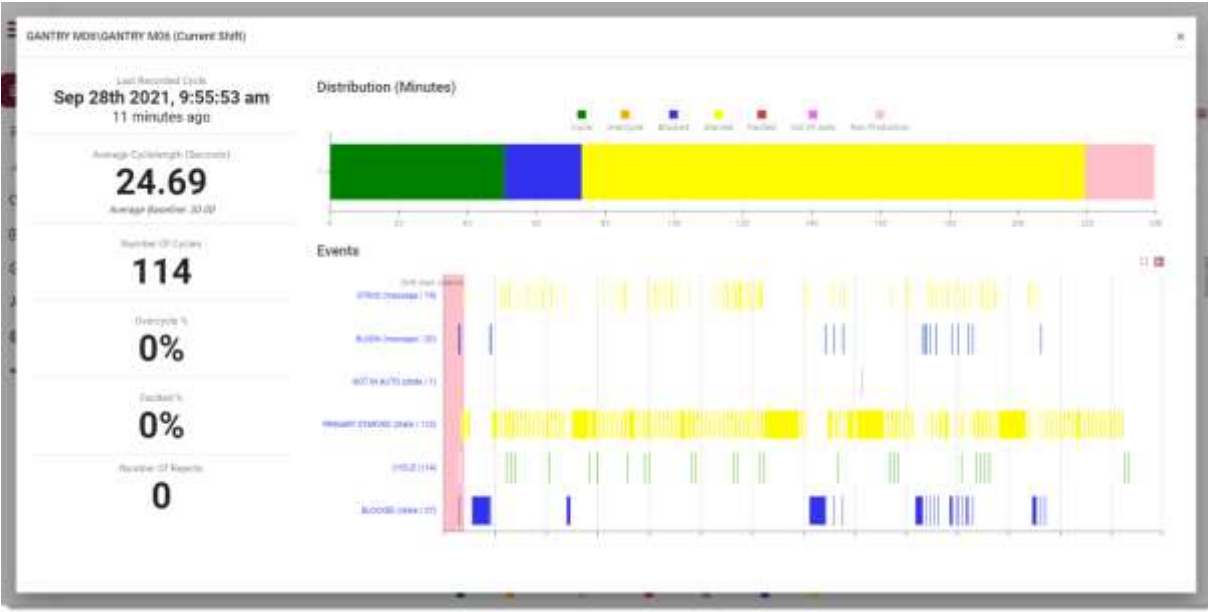
The Area in the green is in good standing, where moving out in the red would be representative of a cycle going bad.

Hovering over an Object

In the bubble view, hovering over an object will reveal the Name, Over Cycle, Faulted, and Reject percentage.

Selecting an Object

When clicking on an object in the Bubble View, a new Summary window will appear with all the relevant data about the selected object.



Summary View

The summary review window will contain all the information on the selected cycle.

It displays the information in three parts, the Current Status, the distribution, and the timeline of the events.

The **Current Status** consists of the time and date of the last cycle, as well as the average cycle length, number of Cycles, Over Cycle, Faulted, and the rejects recorded.

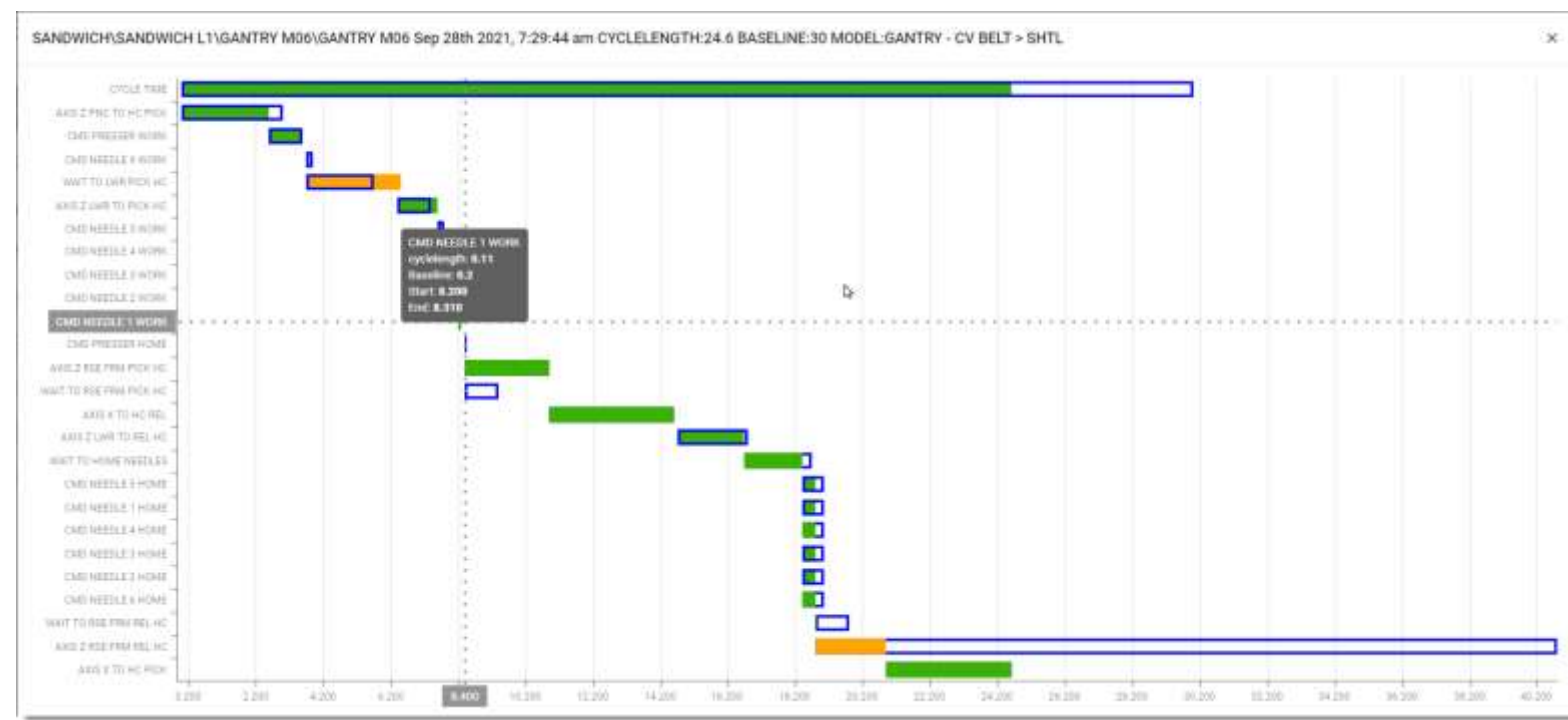
The **Distribution bar** displays the distribution of the type of cycles in minutes. It shows the Good Cycles, Over cycles, Blocked, Starved, Faulted, Out of Auto, and Non-Production Cycles.

The **Event Time View** graph displays the timeline of the selected object, breaking it down by the type of cycle that occurred over a period. The user can hover over any of the cycle bars to see detailed information about the selected cycle.



Summary View

The user can also select an object from the cycle line to view the actual cycle.

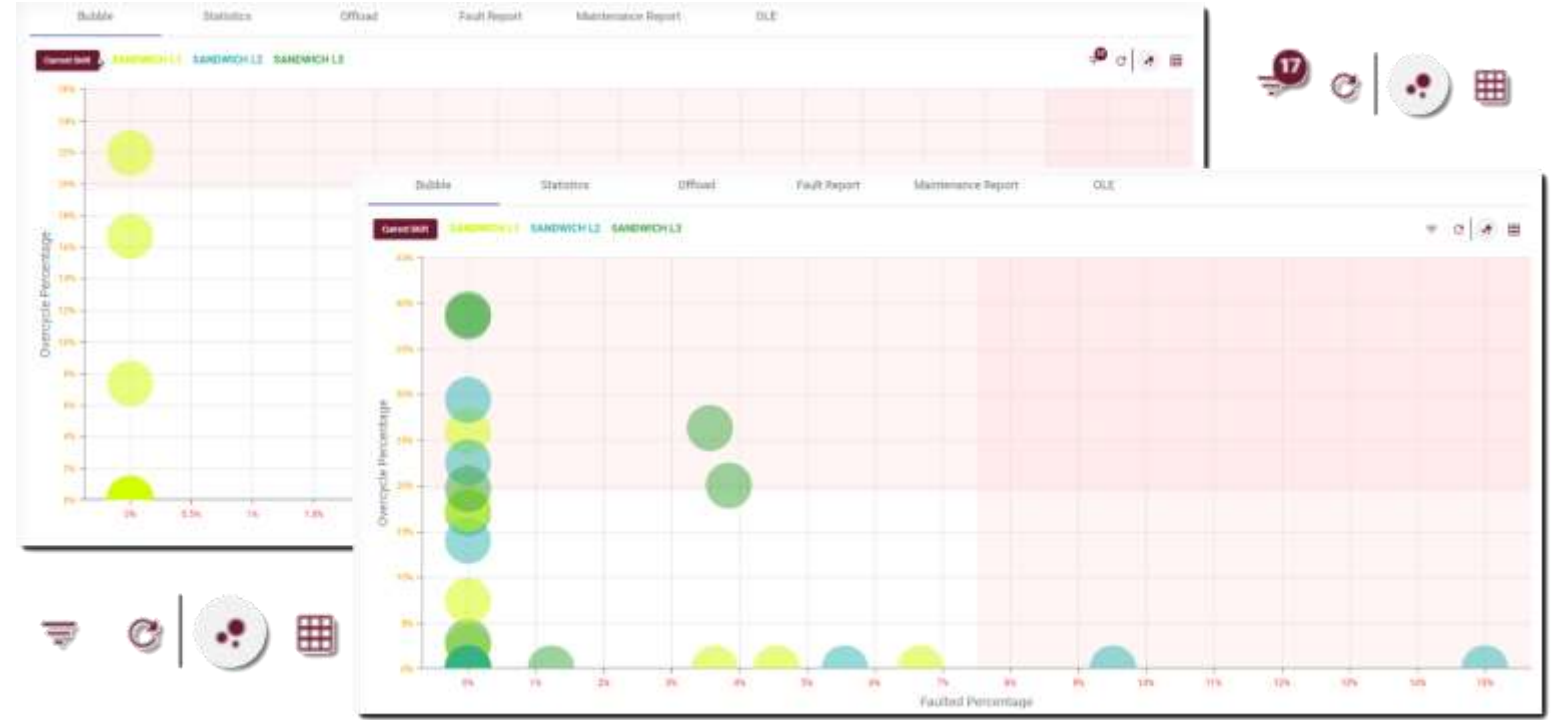


Quick Cycle

Filter Feature

The Filter will allow the user to select what can be displayed on the Bubble View. Selecting one Line object will include all the lower-level object within the object selected.

When a selection is made, a number will appear next to the Filter icon, representing the number of Asset objects within your selection.



Filter (To show all uncheck all)

- SANDWICH
- SANDWICH L1
 - HOT EXPANDER
 - HOT EXPANDER MAIN
 - GANTRY M06
 - GANTRY M06
 - SHUTTLE
 - SHTL MAIN
 - MILLING CELLS
 - MILLING MAIN
 - CELL 1
 - CELL 2
 - CELL 3
 - LOAD RBT1
 - UNLD RBT2

17

The Filter will allow the user to select what can be displayed on the Bubble View. Selecting one Line object will include all the lower level object within the object selected. When a selection is made, a number will appear next to the Filter icon, representing the number of Asset objects within your selection.

Refresh Browser

To refresh or reload the Bubble Chart, click the Refresh Icon.

Chart View

The Chart view will all the objects that will show up on the bubble chart in a table form. It will list the station name, asset name, hovercycle percentage, average hovercycle percentage, faulted percentage, and rejects. To switch back to Bubble View, select the Bubble Icon in the upper right-hand side.

Export all data

Export selected rows

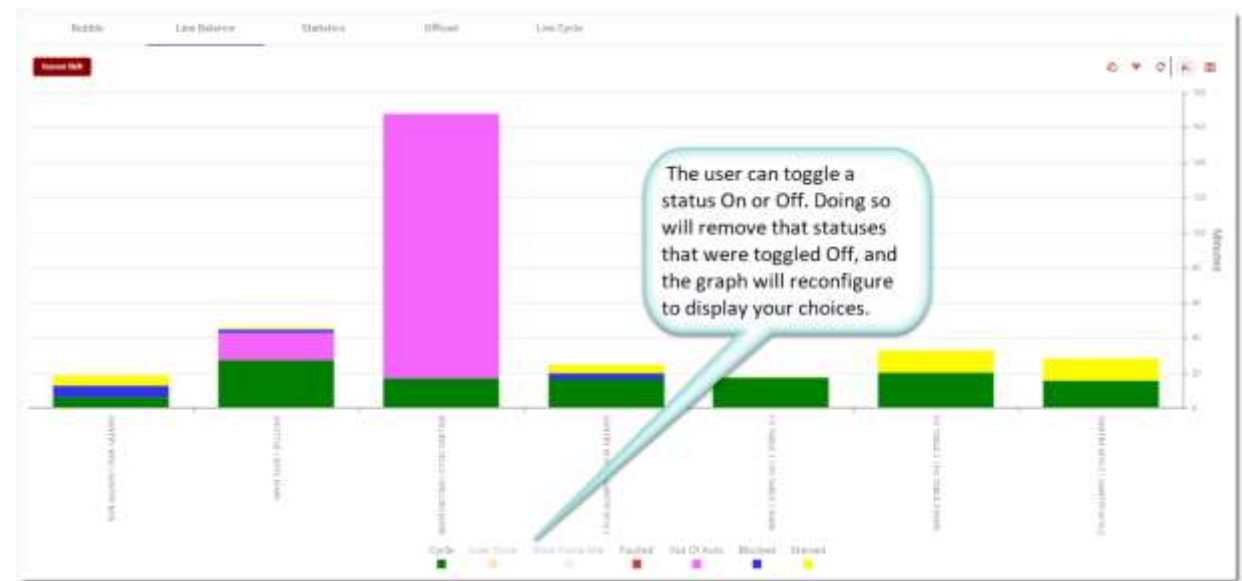
This information can also be exported to excel file. Just select the export all data or the export selected rows.

AssetId	Station Name	Asset Name	Over Cycle Percentage	Avg Over Cycle Percentage	Faulted Percentage	Rejects
6802170	SHUTTLE	SHTL MAIN	9.81	0	0	0
6748676	MILLING CELLS	LOAD RBT1	1.32	0	0	0
6750603	MILLING CELLS	UNLD RBT2	37.5	4.9	0	0
6859488	GANTRY M06	GANTRY M06	0	0	0	0
6597704	MILLING CELLS	MILLING MAIN	51.19	25.51	0	0
10630673	MILLING CELLS	CELL 1	0	0	3.57	0
10734042	MILLING CELLS	CELL 2	4	0	0	0
7907711	FG TABLE 1	BLUE RBT	100	7.46	0	0
7227510	FG TABLE 1	FG TABLE 1 MAIN	35.94	20.1	0	0
6973102	GANTRY M16-1	GANTRY M16-1	1.39	0	0	0
7605720	FG TABLE 2	FG TABLE 2 MAIN	1.39	0	2.78	0
6973996	GANTRY M16-2	GANTRY M16-2	60.87	2.11	0	0
10735961	MILLING CELLS	CELL 3	10	0	5	0

Line Balance

The Line Balance View displays all the objects within a selected line. In each object bar, the status types are stacked one upon another, displaying a distribution of the statuses for each station.

In the Status Legend below, the user can toggle a status On or Off. Doing so will remove the statuses that were toggled Off, and the graph will reconfigure to display your choices.



The Summary displays the information in three parts, the Current Status, the distribution, and the timeline of the events.

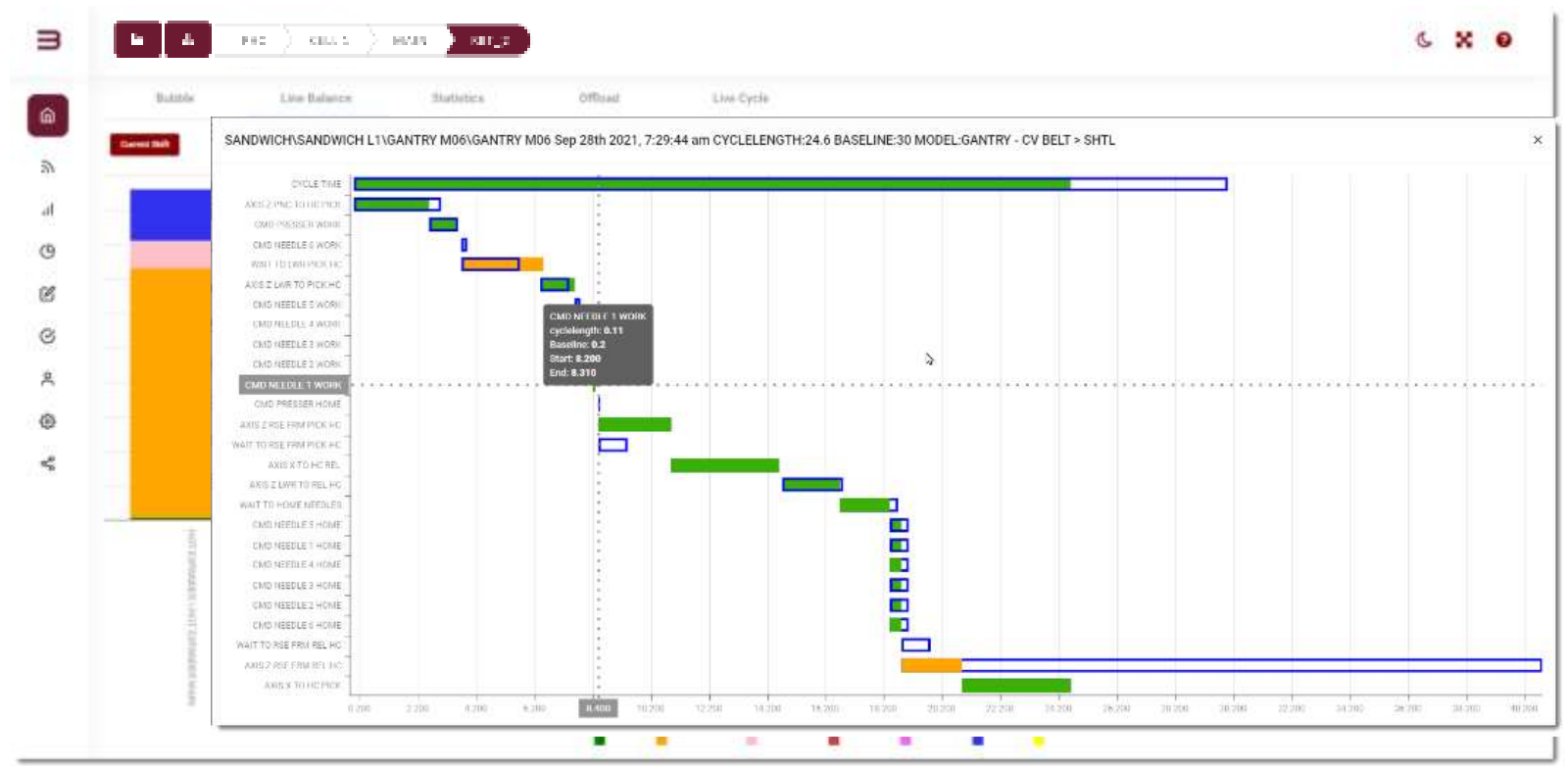
The Current Status consists of the time and date of the last cycle, as well as the average cycle length, number of Cycles, Over Cycle, Faulted, and the rejects recorded.

The Distribution bar displays the distribution of the type of cycles in minutes. It shows the Good Cycles, Over cycles, Blocked, Starved, Faulted, Out of Auto, and Non-Production Cycles.

The Event Time View graph displays the timeline of the selected object, breaking it down by the type of cycle that occurred over a period. The user can hover over any of the cycle bars to see detailed information about the selected cycle. The user can also select an object from the cycle line to view the actual cycle.

Clicking on any of the Cycle bars will open a Summary window with detailed information, including the Current Cycle Status, Distribution, and a Cycle Event section.

Clicking on any of the Cycles in the Cycle Event section will open a Quick Cycle View.



Line Balance Views

The user can change the view of the lion balanced from a vertical bar graph to a horizontal graph. The legend at the bottom of the graph can be used to toggle on an off the different states. Simply click on one of them and that state will disappear, and the graph will adjust to the omitted states that were removed.

To go back to the original view just click on the vertical bar icon in the upper right-hand side of the browser.



Statistics

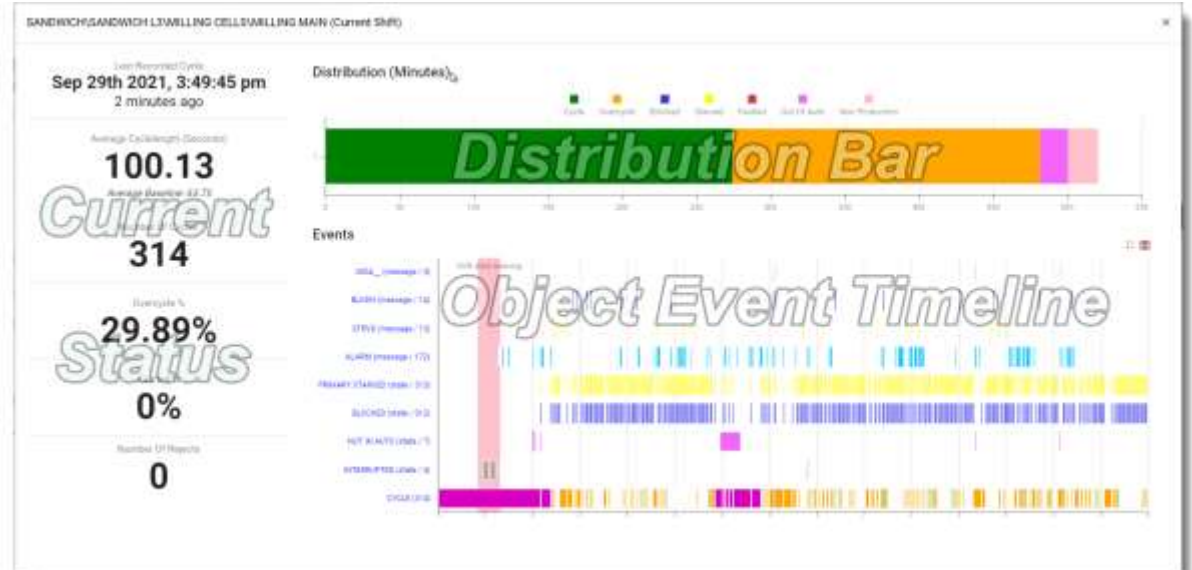
The Statistics view will display a table chart of the Station and Asset information for Cycles and States.

The Cycle information is broken down, into Duration information for Cycles (last cycle), Over Cycle, Average, and Average Baseline.

The States information shows the accumulation of each state broken down to Starved, Blocked, Out of Auto, and the Faulted States.

Clicking on any of the rows will open the Summary Display

Station	Asset	Cycle				State			
		Duration (Seconds)	Over Cycle	Average	Avg. Baseline	Starved	Blocked	Out of Auto	Faulted
MAN	STOCKROOM_1	110.63	0.00	108.42	240.00	0.00	171.12	13.85	0.00
MAN	STOCKROOM_2	97.98	0.00	147.03	240.00	0.00	171.47	36.15	0.00
MAN	STOCKROOM_3	78.60	0.00	79.98	240.00	0.00	182.93	34.07	0.00
MAN	RBT_1	80.25	3.58	39.86	45.00	207.68	0.00	1.65	2.47
MAN	RBT_2	148.00	18.95	100.46	80.00	97.12	18.68	8.85	6.00
MAN	SPRAY RBT_3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAN	SPRAY RBT_4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAN	SPRAY BOOTH MIXER	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PRESS_1	PRESS_1	281.73	0.00	277.33	395.00	0.00	0.00	13.87	0.00
PRESS_1	PRINT LBL	263.23	18.40	10.04	295.00	0.00	0.00	13.87	0.00
PRESS_2	PRESS_2	304.08	88.92	451.80	395.00	0.00	0.00	32.60	0.00
PRESS_2	PRINT LBL	190.92	72.08	10.07	395.00	0.00	0.00	32.60	0.00
PRESS_3	PRESS_3	261.55	0.00	241.18	395.00	0.00	0.00	34.05	0.00
PRESS_3	PRINT LBL	217.25	44.30	10.16	395.00	0.00	0.00	34.05	0.00
MAN	STOCKROOM_4	65.90	0.00	88.20	240.00	0.00	223.45	2.35	0.00
MAN	STOCKROOM_5	91.57	0.00	168.17	240.00	0.00	188.47	18.87	0.00



Offload

The offload tab contains a table chart of an asset by the hour. Based upon your selection in the object tree, this chart view will display all the assets within your selection.

Below each offload is a target. The target can be set dynamically or statically in the administration section. This selection to the right represents a Line level object selection.

MAIN						
	6 am	7 am	8 am	5 pm	+/-	Total
Offload	23	28	0	0	51	51
Target	25	26	0	0	100%	51

The user can drill down to an asset in which only that Asset will be displayed.

Statistics	Offload											Live Cycle		
SANDWICH\SANDWICH L3\MILLING CELLS\MILLING MAIN														
	6 am	7 am	8 am	9 am	10 am	11 am	12 pm	1 pm	2 pm	3 pm	4 pm	5 pm	+/-	Total
Offload	0	29	44	21	21	39	44	37	23	0	0	0	258	258
Target	0	0	0	0	0	0	0	0	0	0	0	0	100%	0

Single Asset Selection

Live View 4.2



The Live View window is a real-time representation of the plant floor. With this view, you see the Current Status of every Station/Asset in the plant in real-time. Stations are updated automatically without having to refresh the window. [Click here for an animated Live view.](#)

- Opening Live View
- Layout
- Selecting an Object
- Main Display
- Object Details
- Cycles
- Building and Editing a Layout
- Editing Toolbox

Live View EDIT
Shift: 1st Shift

010	XJ010R01 WELDI	XJ010B1 FIXTI	XJ010R02 WELDI
015	XJ015R01 MHI		
017	XJ017LH FIXTI	XJ017RH FIXTI	XJ017R01 WELDI
020	XJ020B1 FIXTI	XJ020R01 WELDI	XJ020R02 WELDI
030	XJ030R01 MHI		
050	XJ050R01B1 MHI		
060	XJ060T01B1I	XJ060T03B1I	XJ060T04B1I
065	XJ065R01B1 WELDI	XJ065R01B1 WELDI	
066	XJ066T01B1 PIERCEI	XJ066T02 WH HOLE PRESI	B1 MHI
070	XJ070R01 WELDI	XJ070R01 WELDI	XJ070R02 WELDI
080	XJ080R01 WELDI	XJ080 XJ070R02 WELDI	XJ080R01 MHI
090	XJ090R01 WELDI	XJ090R01 DISPI	XJ090R02 MHI
095	XJ095B1 FIXTI		
096	XJ096R01 MHI	XJ100R02 WELDI	XJ100R03 WELDI
100	XJ100R01 WELDI		
105	XJ105R01 MHI		
110	XJ110B1 FIXTI	XJ110R02 WELDI	XJ110R03 MHI
046	XA046T2B1CNV LOADI		XJ110R01 WELDI

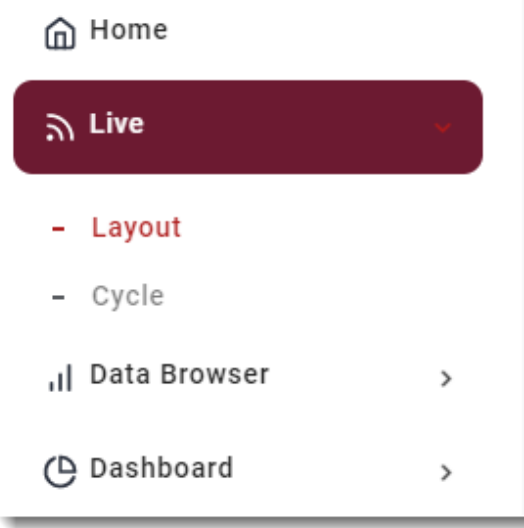
NX1 LINE (ASSET LEVEL)

Faults: 0

Blocked: 0

Starved: 0

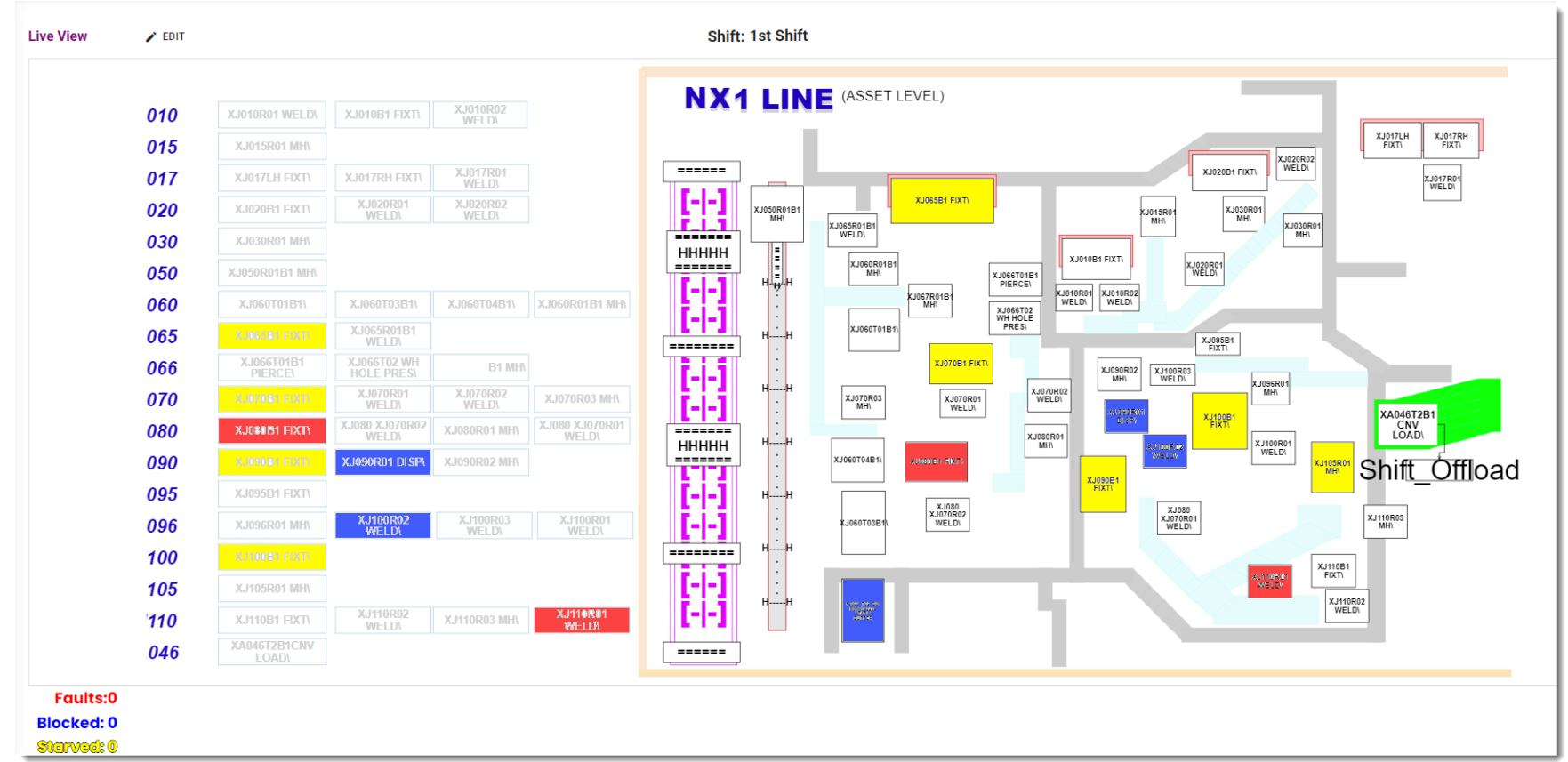
Opening Live View



To open the Live Layout, simply click the Live button in the Main Menu, on the left-hand side of the browser just below the Home icon. There will be two tabs revealed for Layout and Cycles.

Layout

The Live View window is a real-time representation of the plant floor. With this view, you see the Current Status of every Station/Asset in the plant in real-time. Stations are updated automatically without having to refresh the window.



Selecting an Object

It is a set practice by BEET Personnel to place the live view layouts at a higher-level object such as the area or line.

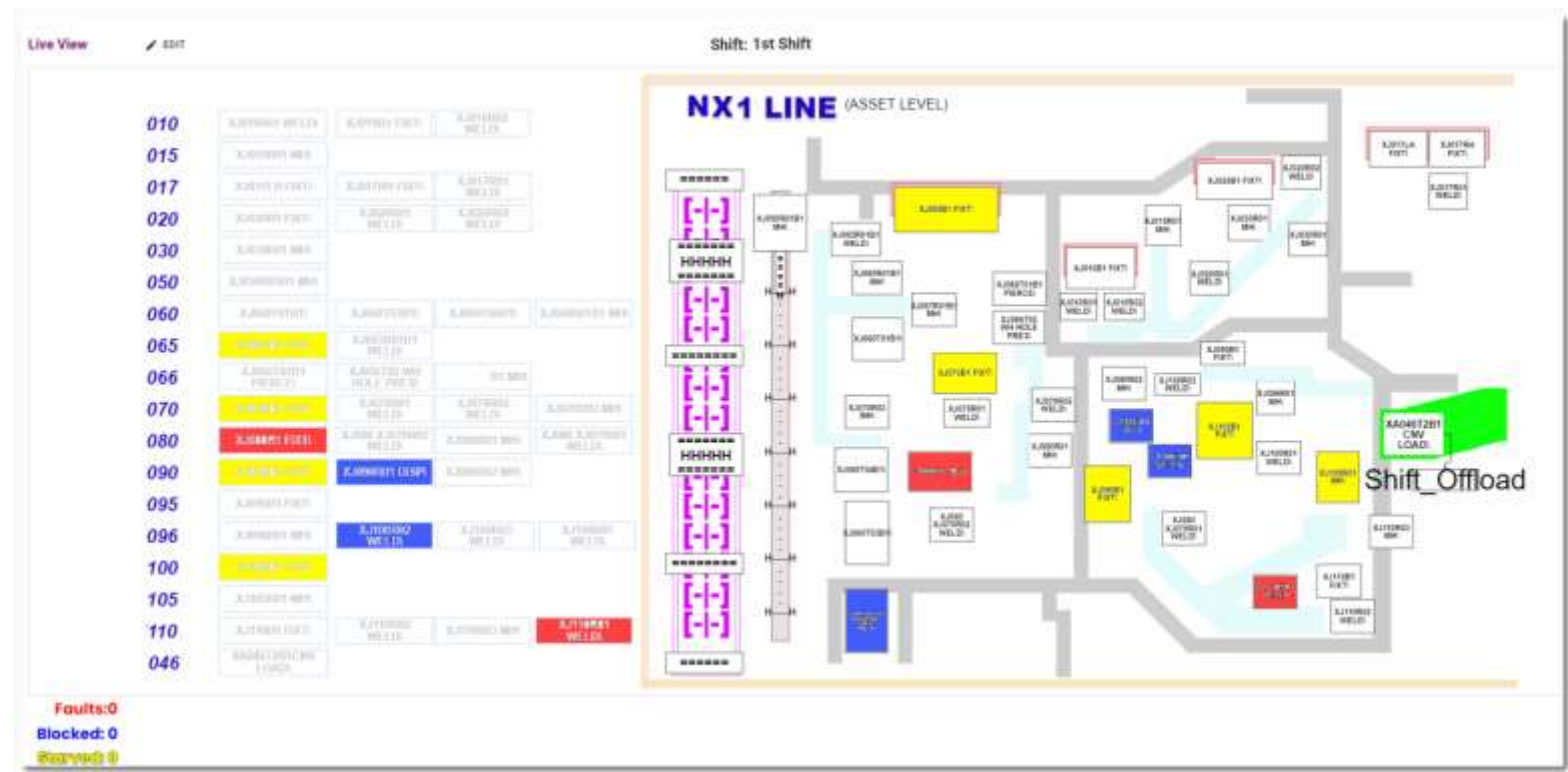
Open the object tree and search for a higher level of object with a Layout button in the Quick Links column. This signifies that it has the layout.

Name	Type	Quick Link
<ul style="list-style-type: none"> <ul style="list-style-type: none"> SANDWICH 	Area	<ul style="list-style-type: none"> Home Layout Note
<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> SANDWICH L1 	Line	<ul style="list-style-type: none"> Home Layout Note
<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> SANDWICH L2 	Line	<ul style="list-style-type: none"> Home Layout Note
<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> HOT EXPANDER 	Station	<ul style="list-style-type: none"> Home Cycles Timeline Analog Messages Note

Main Display

The Main display initially shows the Full Plant Floor grid. The objects will be displayed in a color-coded display based upon the Current Status of the object.

FAULT
BLOCKED
STARVED
Power Off
Low Material
Mode Out of Auto
Overcycle
Planned Maintenance
ALARM
Tool Change
STOPPED
DEGRD
No Material
Status Alert
Quality Alert



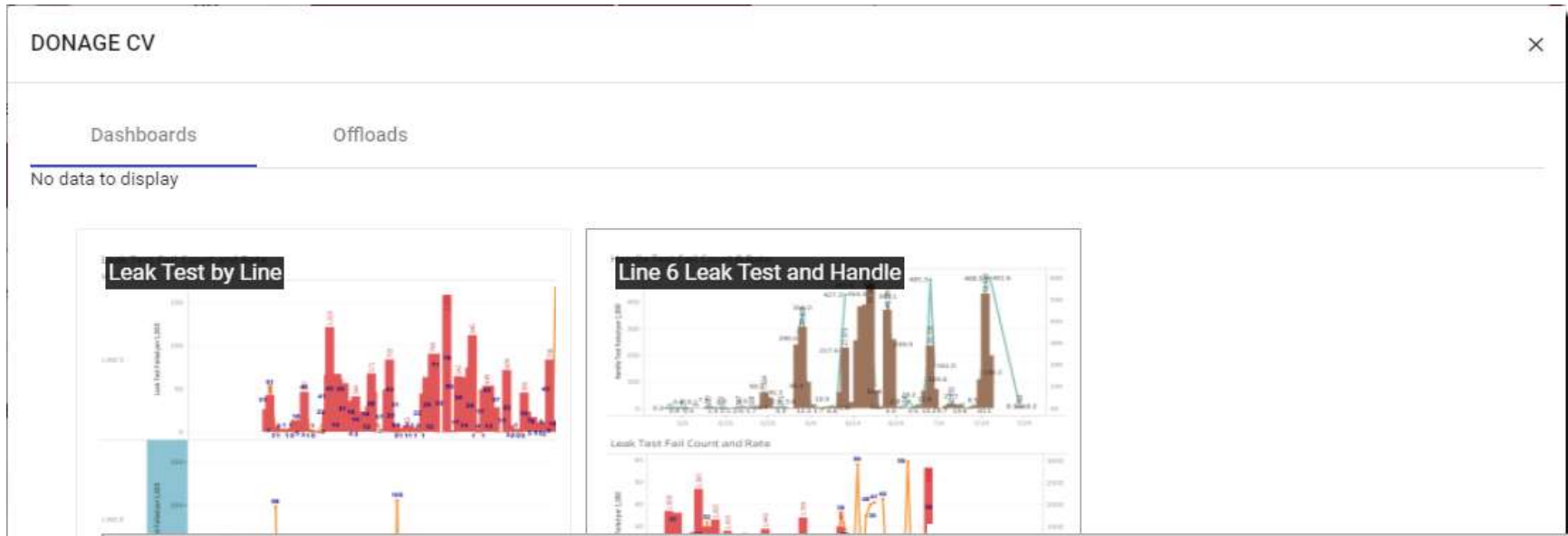
The color coding is based on message type, and not internal States. Messages are set up in the administration section. The user will have to have Administration rights to make changes to the message statuses.

Object Details

The Connected Objects on the layout browser have an accessible window with dashboards in off loads available. On dashboard creation, the dashboard is tag with a system tagged which will make it available the view in the Live Layout.

Once the user clicks on the object, a window will appear where the available Dashboard can be placed.

This window contains two tabs, a tab for the dashboards, and a tab for the offloads.



The Offload tab will contain a 3-shift hourly offload table chart. This displays each shift with an hourly offload count for each hour. Below each offload, will be a Target. If the offload is less than the target, the offload background will display in red. If the offload meets or exceeds the target, then it will display a green background.

The screenshot shows a window titled 'LOAD RBT1' with two tabs: 'Dashboards' and 'Offloads'. The 'Offloads' tab is active, displaying a table of hourly offload counts and targets for three shifts. The table uses color coding: red for offload values below the target and green for offload values meeting or exceeding the target.

1st Shift 09-23		6 am	7 am	8 am	+/-	Total
Offload		19	33	4	-19	56
Target		20	30	25	75%	75

2nd Shift 09-22	6 pm	7 pm	8 pm	9 pm	10 pm	11 pm	12 am	1 am	2 am	3 am	4 am	5 am	+/-	Total
Offload	6	9	21	27	31	23	9	7	24	39	39	19	-91	254
Target	30	30	30	30	30	30	30	30	30	30	30	15	74%	345

1st Shift 09-22	6 am	7 am	8 am	9 am	10 am	11 am	12 pm	1 pm	2 pm	3 pm	+/-	Total
Offload	17	47	38	42	50	31	37	44	21	12	39	339
Target	30	30	30	30	30	30	30	30	30	30	113%	300

Cycles

In Live Layout module, there is the Cycle section. The Cycle section is a table list that contains the last five cycles of every station. It will display the Station Name, Current Status, the Designed Baseline, the last cycle time, and the last five cycles recorded.

Filter

The user can use the filter feature by selecting the icon in the upper right-hand side the Last Five Cycles window. This will open the Object Tree where you can select the object you would like to view.

Simply drill down to the objects you would like to view and ensure that they are selected. Then click Apply. This will display all your selections. Click the X in the selection window to close it. It will remain open until you do.

Asset Name	Status	Baseline	Last Dt	Cycle 1	Cycle 2	Cycle 3	Cycle 4	Cycle 5
MILLING CELLS \ CELL 1		265.00	September 23rd 2021, 8:56:13 am	231.71	97.92	97.76	255.26	249.38
MILLING CELLS \ CELL 2		260.00	September 23rd 2021, 8:57:17 am	230.15	96.03	247.89	248.58	249.73
MILLING CELLS \ CELL 3		263.00	September 23rd 2021, 8:58:23 am	228.93	93.99	254.88	244.98	245.68
MILLING CELLS \ LOAD RBT1	MOA_	100.00	September 23rd 2021, 8:57:59 am	35.67	43.22	31.50	37.56	42.82
MILLING CELLS \ UNLD RBT2	MOA_	50.00	September 23rd 2021, 8:57:50 am	49.53	37.20	64.21	58.88	167.61
MILLING CELLS \ MILLING CELL 1 (DELETE)		223.00	September 23rd 2021, 8:56:12 am	229.02	108.42	109.53	617.42	246.72
MILLING CELLS \ MILLING CELL 2 (DELETE)		223.00	September 23rd 2021, 8:57:17 am	227.62	107.04	245.36	245.11	246.24
MILLING CELLS \ MILLING CELL 3 (DELETE)		223.00	September 23rd 2021, 8:58:23 am	226.35	105.79	538.55	242.33	243.08
GANTRY M16-1 \ GANTRY M16-1	MOA_	62.00	September 23rd 2021, 8:59:16 am	113.54	2750.83	56.42	56.58	56.72
FG TABLE 1 \ FG TABLE 1 MAIN		65.00	September 23rd 2021, 8:57:56 am	3187.77	75.83	75.94	94.06	86.33
FG TABLE 1 \ FG TABLE 1 OPER	MOA_	1.00	September 23rd 2021, 8:38:15 am	1583.70	5035.60	3745.98	5484.60	1170.13
FG TABLE 1 \ GLUE RBT	MOA_	16.00	September 23rd 2021, 8:57:36 am	17.40	20.22	20.22	20.21	20.20
FG TABLE 2 \ FG TABLE 2 MAIN	MOA_	88.00	September 23rd 2021, 8:04:03 am	34.95	34.80	34.86	35.55	35.70
FG TABLE 2 \ FG TABLE 2 OPER	MOA_	1.00	September 23rd 2021, 7:45:27 am	1785.76	2445.20	1193.59	5517.86	2154.34
GANTRY M16-2 \ GANTRY M16-2		73.00	September 23rd 2021, 8:04:42 am	59.71	59.92	60.19	60.28	60.78
HOT EXPANDER \ HOT EXPANDER MAIN		1.00	September 23rd 2021, 9:00:35 am	64.22	64.28	64.59	64.55	64.04
GANTRY M06 \ GANTRY M06		30.00	September 23rd 2021, 9:00:04 am	24.70	24.70	24.66	24.69	24.76
SHUTTLE \ SHTL MAIN		30.00	September 23rd 2021, 9:00:34 am	13.72	11.26	41.29	13.76	11.26

Filter

- [-] NASP Memphis Area
 - [x] LINE 6
 - [x] HANDLE PLACER
 - [x] NOZZLE PLACER
 - [x] ROBOT PALLETIZER
 - [x] TESTER
 - [x] WRAPPER
 - [x] HANDLE INFEED
 - [x] HEAT MACHINE

Filter

- [-] NASP Memphis Area
 - [-] LINE 6
 - [x] HANDLE PLACER
 - [x] NOZZLE PLACER
 - [x] ROBOT PALLETIZER
 - TESTER
 - WRAPPER
 - [x] HANDLE INFEED
 - [x] HEAT MACHINE

Apply

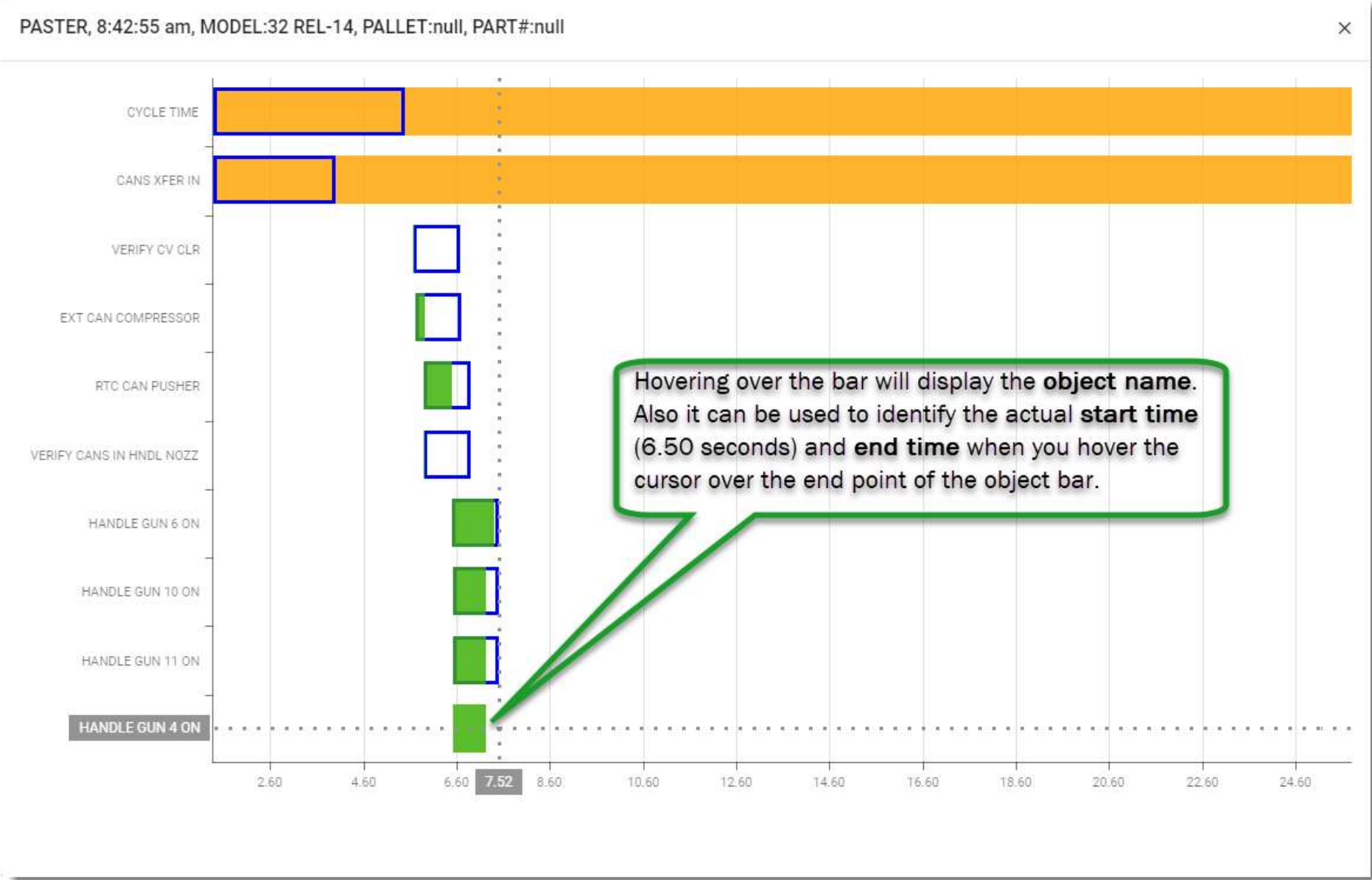
Select only what you would like to view.

Or uncheck to omit from your selection.

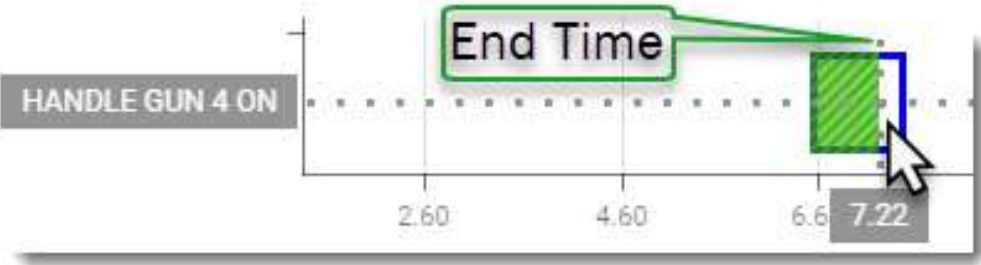
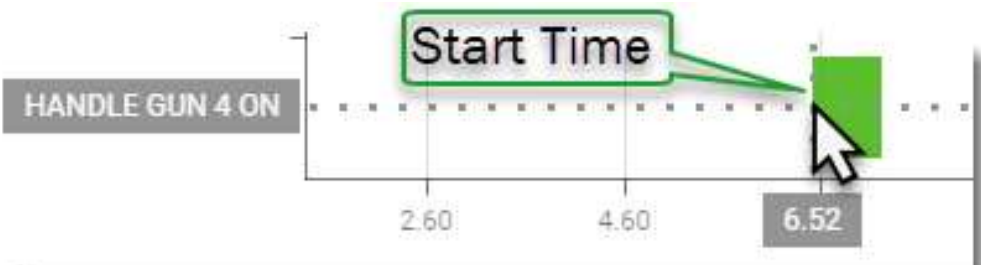
Then click the **Apply**

Hover Features

Clicking on any of the **Cycles 1 - 5 on the Table**, will open a window displaying the Cycle View window.



You can hover over the object bar to view the **Title, Start Time, and End Time** of the object you are hovering over.



Live Cycle

The Live Cycle status displays the list of the Assets of the Last cycle that occurred, with detailed information based on your object selection.

The Chart displays the Asset, the Date and Time with the Last Cycle Timer (to the right), the Cycle Length, Baseline, Model Name, Model Type, Pallet, Part Number, Asset, Group, and OP Statuses.

This is a live table chart, that is updated in real-time.

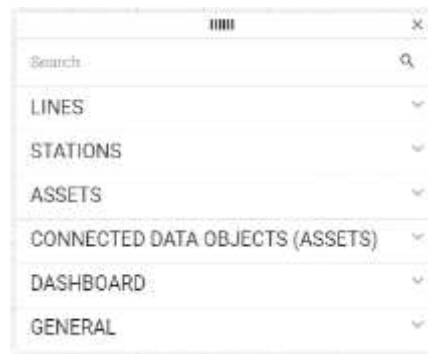
! This is an Experimental feature to reduce the latency of cycles

Asset	Datetime	Last Cycle Timer	Cyclelength	Baseline	Modelname	Model Type	Pallet	Partnumber	Asset Status	Group Status	OP Status
PHC\CELL 1\MAIN\STOCKROOM_1	9/14/2021, 12:43 PM	8 minutes ago	447.13	240	MIC 5D FRO...	GOOD					WARNING
PHC\CELL 1\MAIN\STOCKROOM_2	9/14/2021, 12:47 PM	4 minutes ago	225.30	240	MIC 3D/5D B...	GOOD		7272			GOOD
PHC\CELL 1\MAIN\STOCKROOM_3	9/14/2021, 12:48 PM	3 minutes ago	219.94	240	MIC 3D FRO...	GOOD					GOOD
PHC\CELL 1\MAIN\RBT_1	9/14/2021, 12:50 PM	a few seconds ago	35.12	45	PRESS 1	GOOD					GOOD
PHC\CELL 1\MAIN\RBT_2	9/14/2021, 12:44 PM	6 minutes ago	71.70	80	PRESS 1	GOOD					GOOD
PHC\CELL 1\PRESS_1\PRESS_1	9/14/2021, 12:48 PM	2 minutes ago	477.47	395	MIC 5D FRO...	GOOD-2	22	(S)403PH01...			WARNING
PHC\CELL 1\PRESS_2\PRESS_2	9/14/2021, 12:44 PM	6 minutes ago	514.19	395	MIC 3D/5D B...	GOOD-2	21	(S)403PH01...			WARNING
PHC\CELL 1\PRESS_3\PRESS_3	9/14/2021, 12:45 PM	5 minutes ago	435.87	395	MIC 3D FRO...	GOOD-2	16	(S)403PH01...			WARNING
PHC\CELL 2\PRESS_6\PRESS_6	9/14/2021, 12:47 PM	4 minutes ago	13.30	395	CYCLE_INTE...	EMPTY	13				GOOD
PHC\CELL 2\PRESS_5\PRESS_5	9/14/2021, 12:47 PM	3 minutes ago	73.79	395	CYCLE_INTE...	EMPTY	3				GOOD
PHC\CELL 2\PRESS_4\PRESS_4	9/14/2021, 12:44 PM	6 minutes ago	432.41	395	MIC CAPACI...	GOOD-2	4	(S)403PH02...			WARNING
PHC\CELL 2\MAIN\STOCKROOM_4	9/14/2021, 12:45 PM	5 minutes ago	59.19	240	MIC CAPACI...	GOOD					GOOD
PHC\CELL 2\MAIN\RBT_2	9/14/2021, 12:47 PM	4 minutes ago	73.05	80	PRESS 4	GOOD			FAULTED	FAULTED	GOOD
PHC\CELL 2\MAIN\RBT_1	9/14/2021, 12:45 PM	5 minutes ago	37.84	50	PRESS 4	GOOD					GOOD
PHC\CELL 2\MAIN\STOCKROOM_5	9/14/2021, 12:38 PM	12 minutes ago	117.69	240	MIC CAPACI...	GOOD		7272			GOOD
PHC\CELL 2\MAIN\STOCKROOM_6	9/14/2021, 12:41 PM	10 minutes ago	71.90	240	MIC 5D RR C...	GOOD		73			GOOD
PHC\CELL 3\PRESS_9\PRESS_9	9/14/2021, 12:42 PM	8 minutes ago	452.71	395	MIC CAPACI...	GOOD	5	(S)403PH03...	FAULTED	FAULTED	WARNING
PHC\CELL 3\PRESS_8\PRESS_8	9/14/2021, 12:47 PM	4 minutes ago	350.67	395	MIC 5D QTR ...	GOOD-2	23	(S)403PH03...	FAULTED	FAULTED	GOOD
PHC\CELL 3\PRESS_7\PRESS_7	9/14/2021, 12:48 PM	2 minutes ago	571.65	395	HEADER BOW	GOOD-3	1	(S)403PH03...	FAULTED	FAULTED	WARNING

Building and Editing a Layout

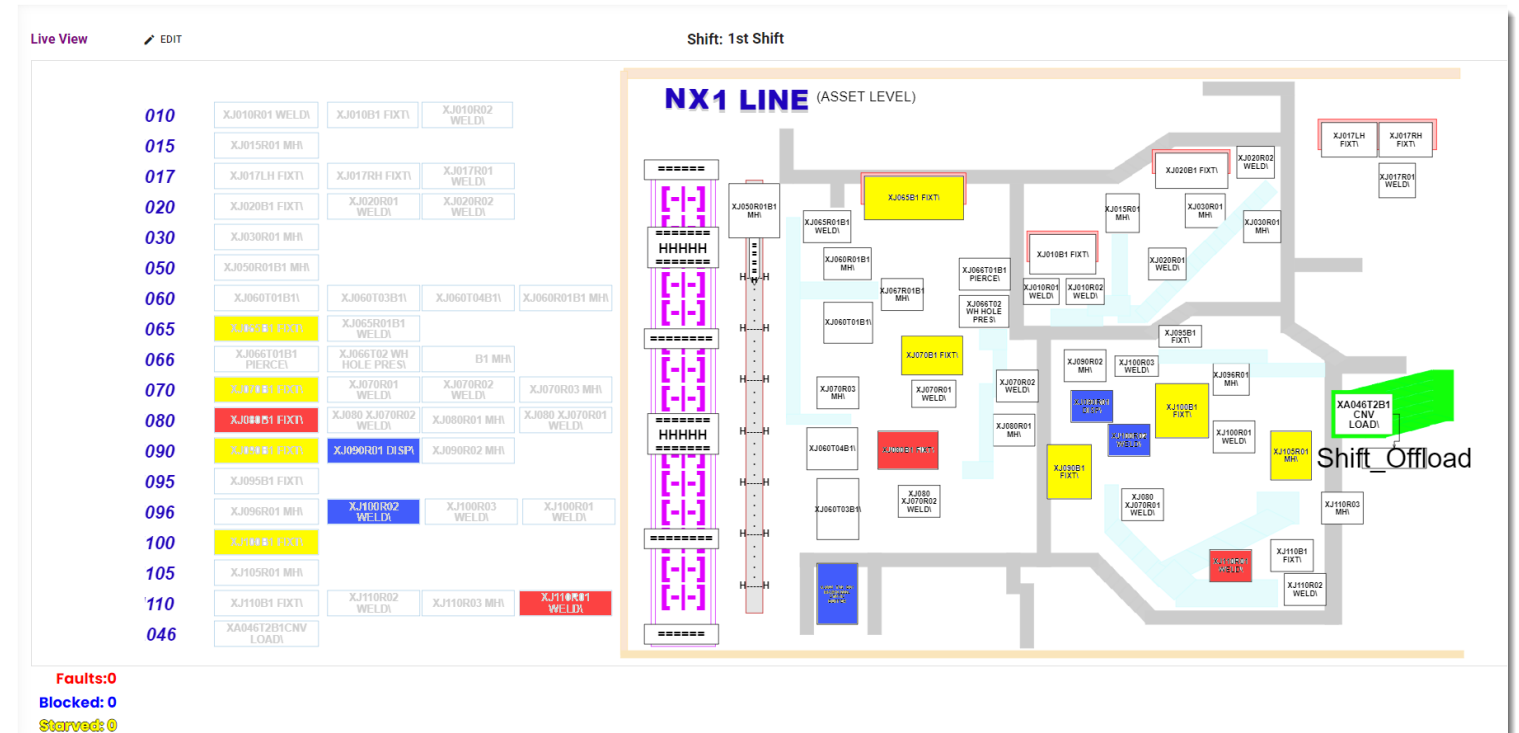
Editing Toolbox

The editing toolbox will contain all the parameters in elements of the live layout.



To start, click the edit button in the upper left-hand side of the live layout window. This will open an editing screen layout. On the left-hand side of this editing window, will be the editing toolbox. This contains parameter sections for lines, stations, assets, connect to data objects, dashboards, and general items. All these items can be used to make a simple layout of the factory.

This palette can be moved anywhere on the editing window, by simply clicking and holding the top of the toolbox and dragging it to where you would like to place it.



Top Editing Ribbon

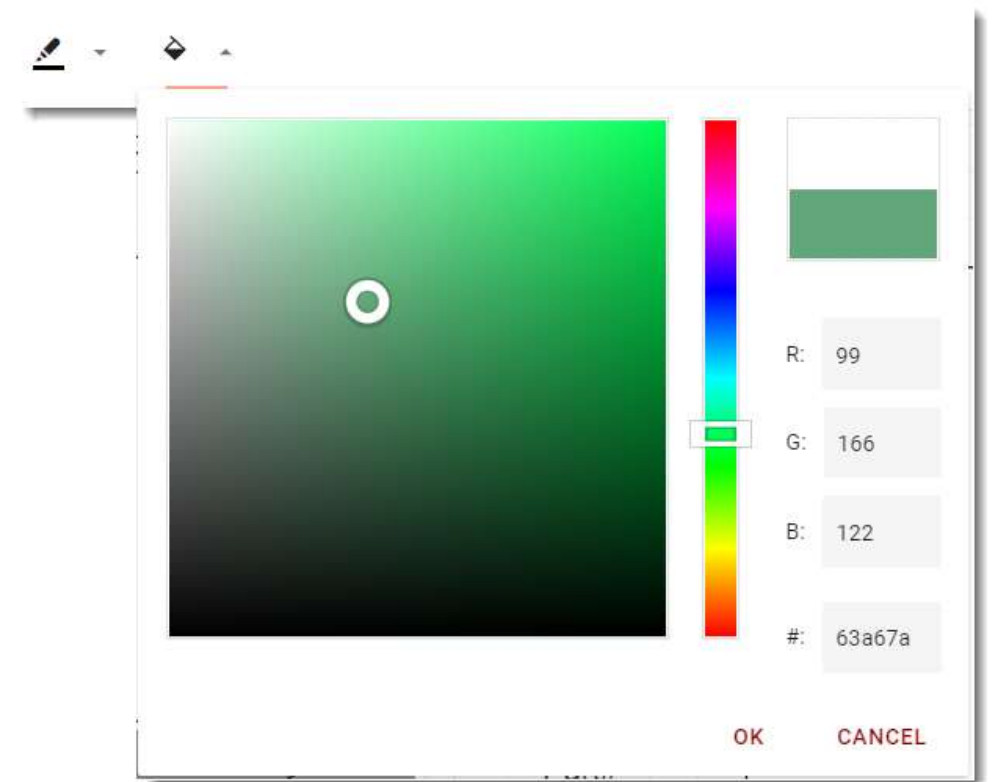
This menu contains the tools to color and configure the items that are placed on the layout. It starts with and redo option.

To the right is a font and font size selection.



Further to the right is the parameter color palette. With these palettes, you can choose the color of the fonts, the line color around the object you place, and the color fill color of the object selected.

If you know the color code number it can be simply copied and pasted in the number section, then click okay.



Zoom/View Setting

50%

75%

100%

125%

150%

200%

300%

Fit to Content

Fit to Width

Auto Zoom by Content

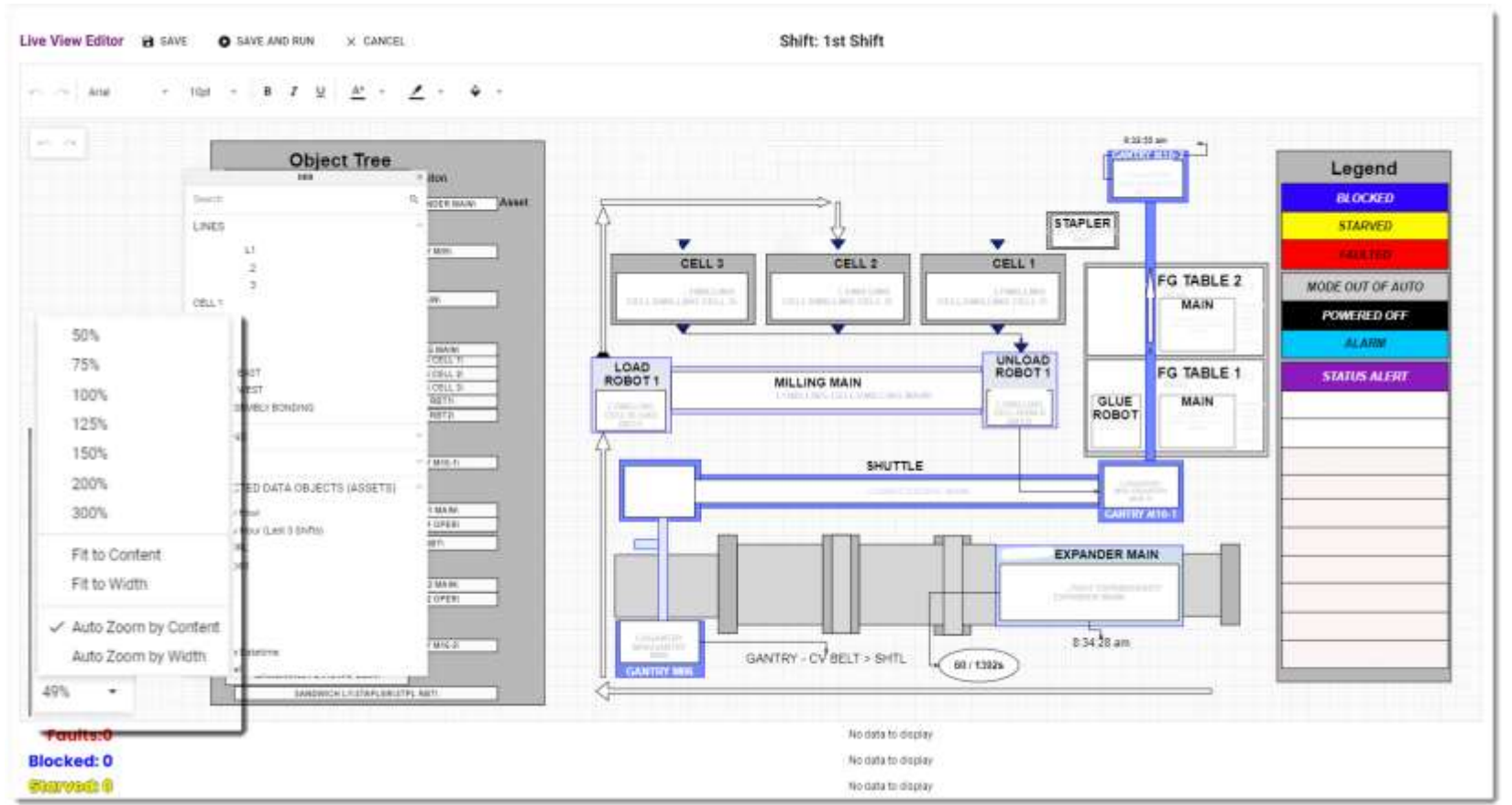
Auto Zoom by Width

49%

When the layout is first open in the editing mode, the scale of the layout is auto zoomed to fit all the content of the rendered layout.

When building a layout, the user can zoom in to layout which can make it easier in building the layout.

The layout is default to the Auto Zoom by Content. With every added object, the layout will auto center to the content of the layout.



LINES

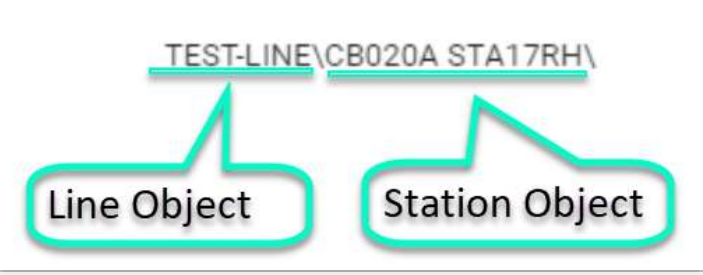
In the lines tab, will be all the line objects that are available in ePVS for your selected Plant or Area. These objects are automatically configured and connected to the objects of the line.

All the Line, Station, and Asset level objects are active objects, which means based upon the message being produced an enSight, the color of the object changes to match the current message status. If multiple messages are present them it will color itself based upon priority, example a fault will display over a block or starved message status.



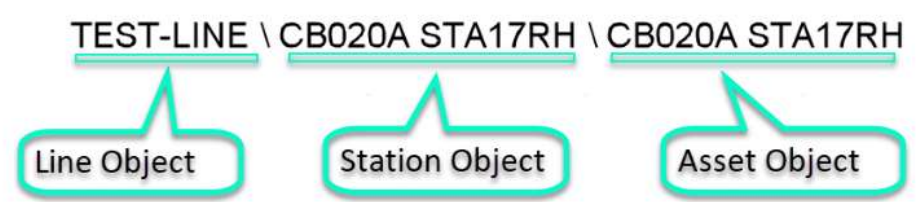
STATIONS

In the station tab, will be a list of all the stations of every line available. If there are three lines, then all the station within the three lines will be available there. They will be listed with the line designation before the station designation. This will help in clarifying the objects title.



ASSETS

In the station tab, will be a list of all the stations of every line available. If there are three lines, then all the station within the three lines will be available there. They will be listed with the line designation before the station designation. This will help in clarifying the objects title.





CONNECTED DATA OBJECTS

×

ASSETS

CONNECTED DATA OBJECTS (ASSETS)

- Offload by Hour
- Offload By Hour (Last 3 Shifts)
- External URL
- Shift_Offload
- Rejects
- Blocked
- Starved
- Faulted
- Last Cycle Datetime
- Last Model
- Last Pallet
- Part#
- Buffer

They Connected Data are a collection of tables, parameters, informational placards, and the ability to link to an external URL.

The Connected Data Objects are a collection of graphing platforms, utilizing Table Charts, single parameters, and other informational information placards.

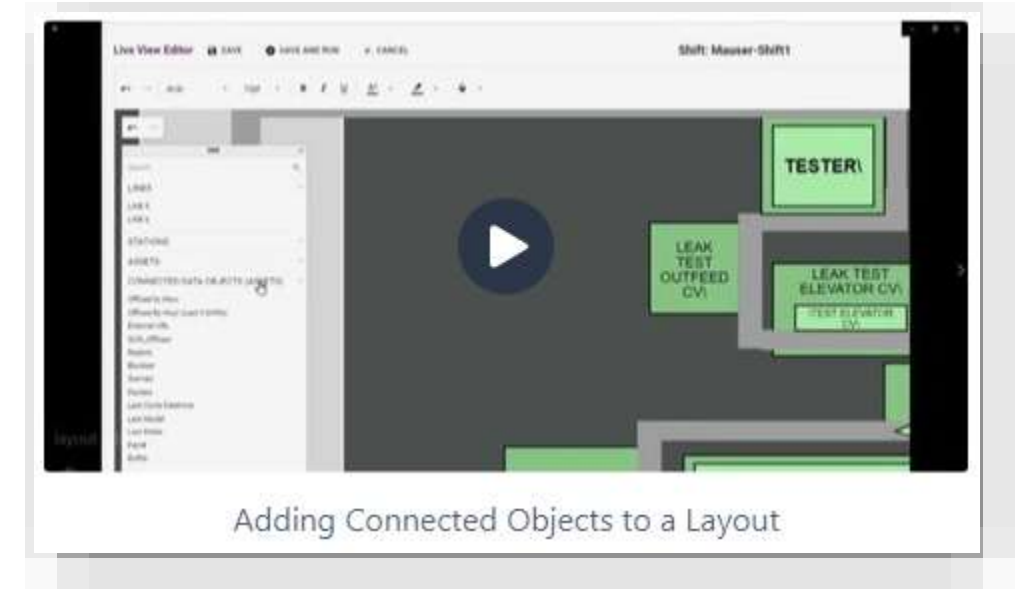
Offload by Hour and (Last 3 Shifts)

These table charts are prebuilt to be placed at a Pay Point and will show the Offload at the Pay Point.

This table chart shows the Offloads by Hour and with an option for the last 3 shifts. Below the offload is the Target. The Target is set in the Administration section.

External URL

The user can insert an external URL that can link to dashboard or an article on the web.



Shift Offload

The shift offload parameter can be placed next to an asset object, then connected from the asset to the shift offload parameter. With the parameters connected, click the Save and Run button. A few moments later, the shift offload placard will display the shift offload for the asset you are connected to.

Shift1 09-27	6 am	7 am	8 am	9 am	10 am	11 am	12 pm	1 pm	+/-	Total
Offload	0	0	0	0	0	0	0	0	0	0
Target	0	0	0	0	0	0	0	0	100%	0

Shift1 09-27	6 am	7 am	8 am	9 am	10 am	11 am	12 pm	1 pm	+/-	Total
Offload	0	0	0	0	0	0	0	0	0	0
Target	0	0	0	0	0	0	0	0	100%	0

Shift2 09-27	6 am	7 am	8 am	9 am	10 am	11 am	12 pm	1 pm	+/-	Total
Offload	0	0	0	0	0	0	0	0	0	0
Target	0	0	0	0	0	0	0	0	100%	0

Shift3 09-27	6 am	7 am	8 am	9 am	10 am	11 am	12 pm	1 pm	+/-	Total
Offload	0	0	0	0	0	0	0	0	0	0
Target	0	0	0	0	0	0	0	0	100%	0

Rejects, Blocked, Starved, and Faulted

These parameters can be placed near the asset and then connected to by the asset.

When ran, the parameter will display the number of occurrences, and the total amount of time that the asset accumulated.

OFFLOAD	0
BLOCKED	0 / 0s
STARVED	0 / 0s
FAULTED	0 / 0s
REJECTED	0

Live View Editor | SAVE | SAVE AND RUN | CANCEL | Shift: Mauser-Shift1

Search []

- LINES
 - LINE 5
 - LINE 6
- STATIONS
- ASSETS
- CONNECTED DATA OBJECTS (ASSETS)
- DASHBOARD
- GENERAL

OFFLOAD **Shift_Offload**

BLOCKED **Blocked**

STARVED **Starved**

FAULTED **Faulted**

REJECTED **Rejects**

TESTER\

LEAK TEST OUTFEED CV\

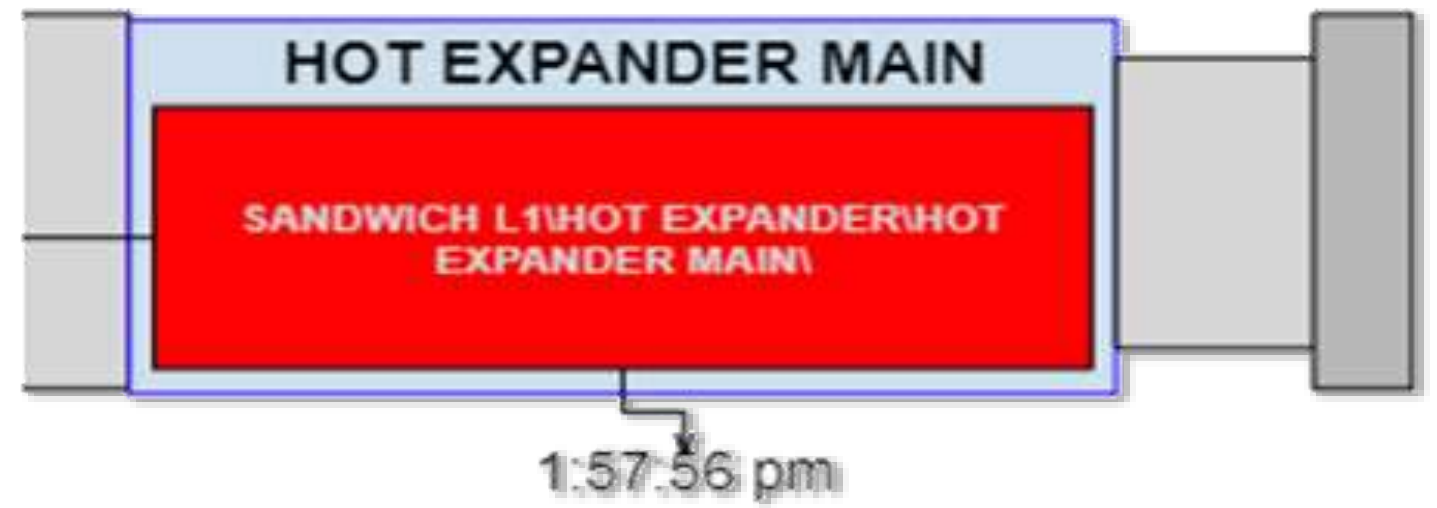
LEAK TEST ELEVATOR CV\

TEST ELEVATOR CV\

Last Cycle Datetime

This parameter can be placed at any asset object. Good practice would be to place the last cycle date time parameter at the beginning and the end and various places within the factory line. This could be a good way to tell if problems will start to arise such as blocks and starved situations.

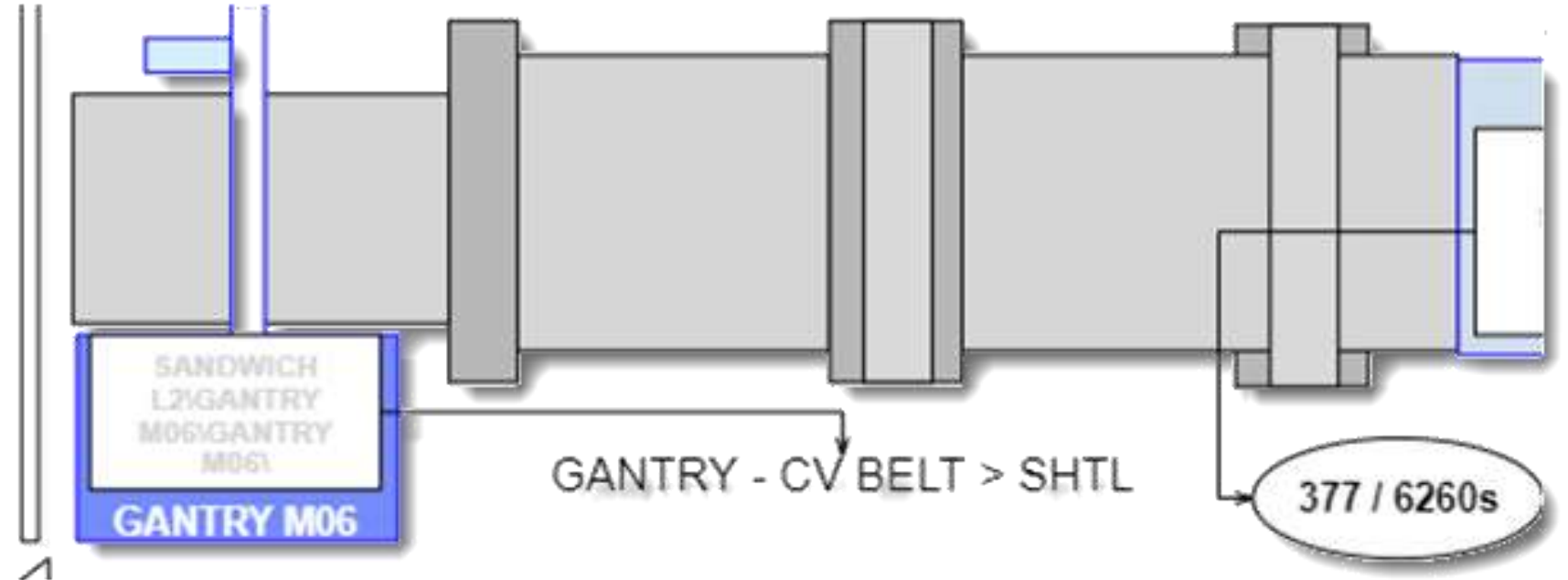
An example would be that you're in time should be later than an upstream time. If the end time is earlier than that object is running behind.



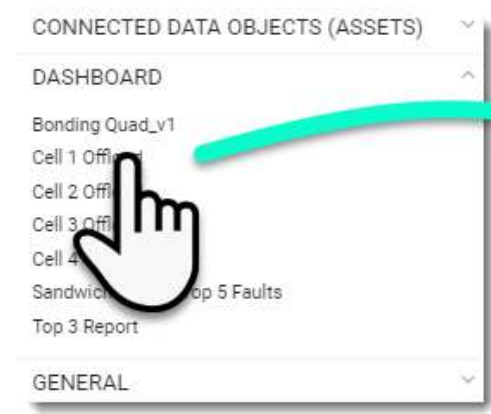
Last Model, Last Pallet, Part # (Number), and Buffer

This parameter can be placed at any asset object. Good practice would be to place this parameter at a problem area where bottlenecks and starved conditions. This could be a good way to tell if a certain model is causing problems such as blocks and starved situations.

An example would be that if an object was in a blocked condition, the user can view which model is in process, and monitor to see if future identical model is causing an issue.



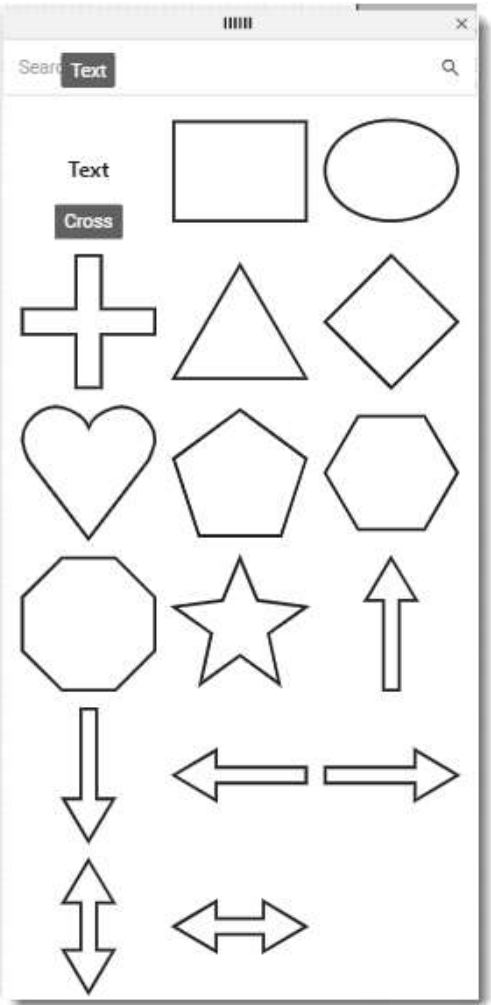
DASHBOARD



The dashboard tablet contains several dashboards that are designated by tag to appear in the live view layout. If a child is not populated, then there has not been any dashboards tag for this layout.

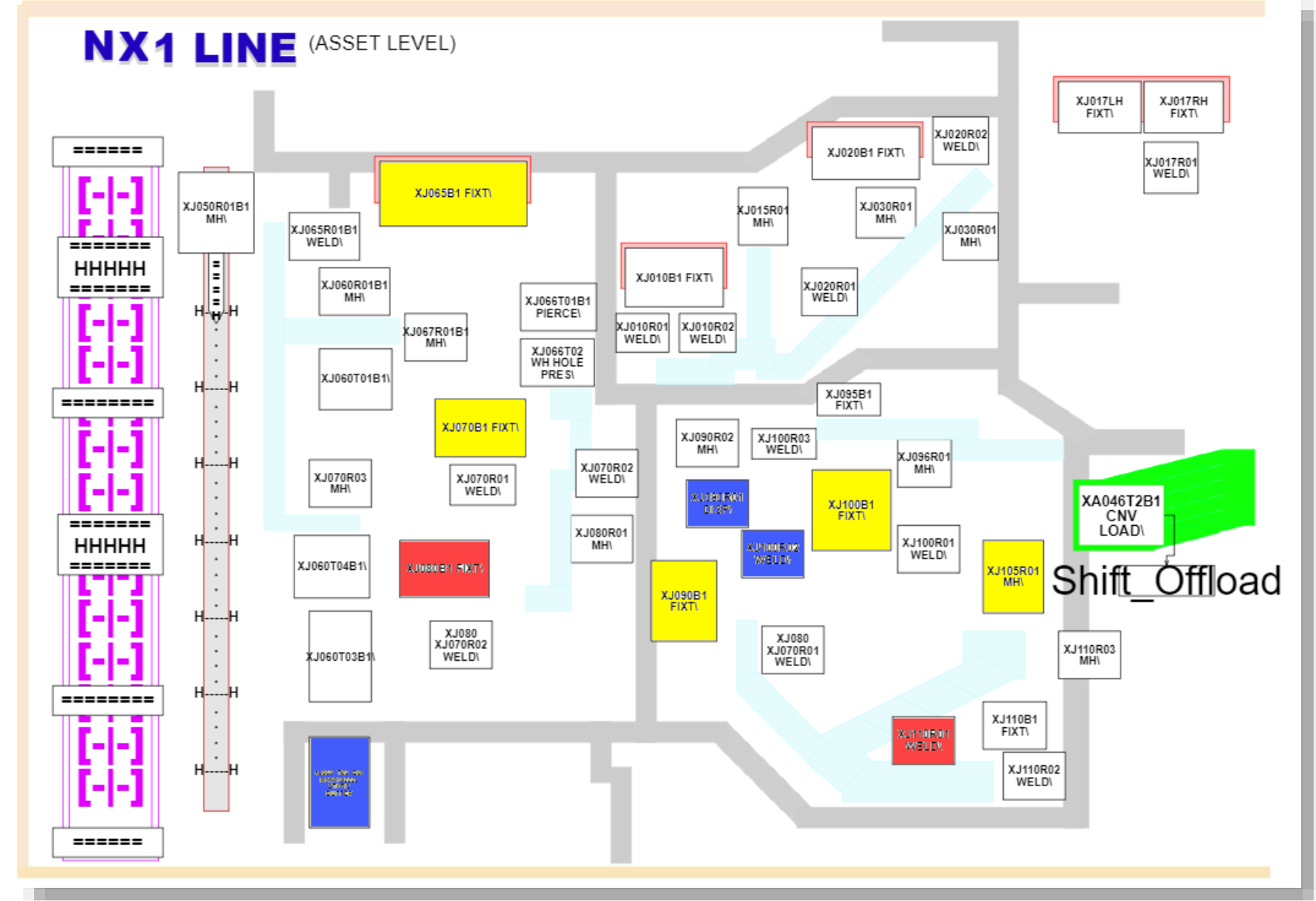
To install a dashboard on screen, simply select a Dashboard from the Collection, then click and hold, then drag it to the editing window. Once there, the user can size it to the scale you would like.

When constructing the dashboard, ensure that the fonts as well as the sizing or scaling are correct for a smaller version.



GENERAL

The generals tab consists of text, shapes, and various other visual symbols. They can be resized and used to make other visual features like a conveyor belt or walkway.



Data Browser

The data browser provides graphical data on your processes cycle status, including the machine heartbeat.

- Opening the Data Browser
- Cycle Browser
- History Display Views
- Messages
- Notes
- Cycle Compare Module
- Messages
- Messages-Bulk Download (if applicable)



Opening the Data Browser

Data Browser

- Cycle Browser
- Event Timeline
- Messages
- Analog
- Messages - Bulk Download

Within the Data Browser section is the Cyclebrowser, Event Timeline, Analog (User data), and the Messages display.

To gain access, simply click the Data Browser icon and the contents will reveal below.

Cycle Browser

- [Cycle Browser](#)
- [Opening Cycle Browser](#)
- [Cycle Browser Asset Statistics Display](#)
- [Selecting another cycle](#)

The cycle browser provides graphical data on your processes cycle status, including the machine heartbeat. The Cycle Browser has two main displays, the Cycle View Upper display, and the History Display panel.

The Upper Display consist of a Sequence View, Message Pane, and an Analog View based upon your object selection. Some object may not have analog data present. When there is no analog data present, the analog data graph will be omitted from the display.



The sequence view will display regardless of the lack of analog data.

The lower graphing area is the History Display Panel. This will display the last 100 cycles, or an option to view Today's or Yesterday's data.

Opening Cycle Browser

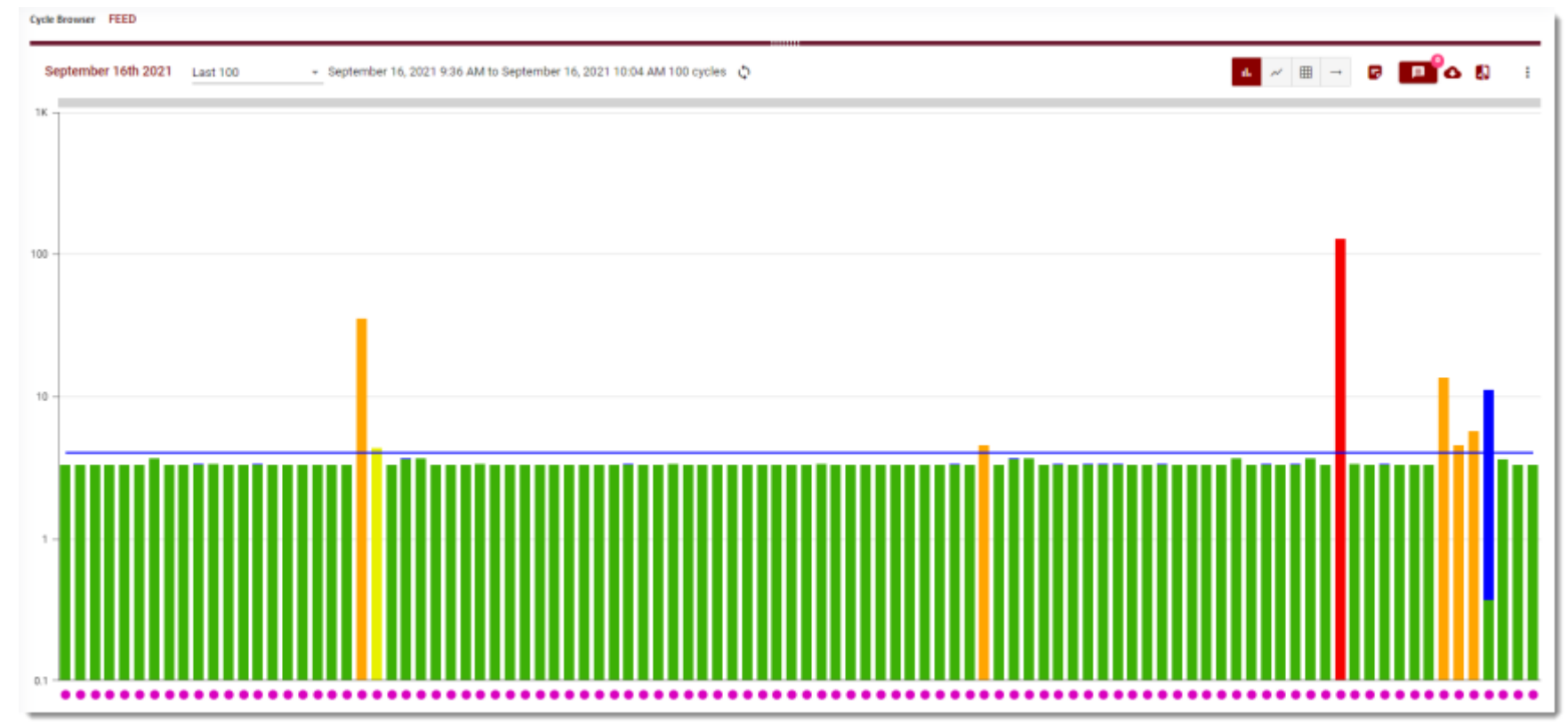
You can then access the cycle browser by using the Object Tree menu to navigate to your desired object. Click on the Object Tree button, and the Object Tree window will reveal.

Click on the drop-down icon beside the object. This will reveal the lower-level objects. Proceed until you reach the object desired. Click on the object and then you can proceed to the select the Cycle Browser. Another way you can go directly to the Cycle Browser is to use the Quick Links to the right of each object.

After selecting the desired object, the cycle browser will launch to this browser, if it was already open. If the cycle browser was not open, then go to the data browser icon in the left side Main Menu and open the cycle browser.

Name	Type	Quick Link
TEST-AREA	Area	View Edit
TEST-LINE	Line	View Edit
TEST-NS-LINE	Line	View Edit
STA01	Station	View Update Timeline History Messages View
ASSET00	Asset	View Update Timeline History Messages View
CYCLE TIME	Group	View Edit
Step #1	Group	View Edit
Step #2	Group	View Edit
Step #3	Group	View Edit
Step #4	Group	View Edit
Step #5	Group	View Edit
STA02	Station	View Update Timeline History Messages View
TEST-NS-AREA	Area	View Edit

Based upon your selection another window will open. If you selected a single asset, then a history display panel will open displaying the last 100 cycles.



If you selected a Station object or higher-level object that has more than one asset, then an asset window will open containing all the assets within your selection.

Select an Asset

Selection of a Station object will open the "Select an Asset" window. Select the Asset you would like to view.

Name	Cyc...	Status
LINE 6\HANDLE PLACER\CAN SHUTTLE	100	
LINE 6\HANDLE PLACER\PICK AND PLACE	100	
LINE 6\HANDLE PLACER\HANDLE FEED	100	

Cycle Browser Asset Statistics Display

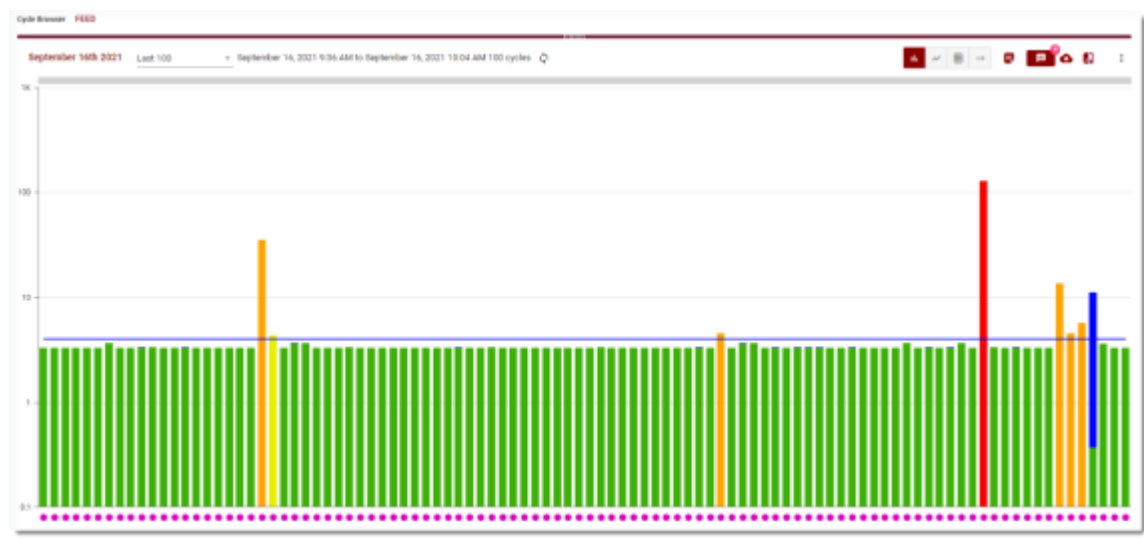
Upon initial selection of an object cycle browser will load the *Select an Asset* window within your station selection, stacked one atop of the other. In this example, all the 3 station assets are displayed.

Select from one of the assets. Once selected, it will open to the History Display for that Asset.

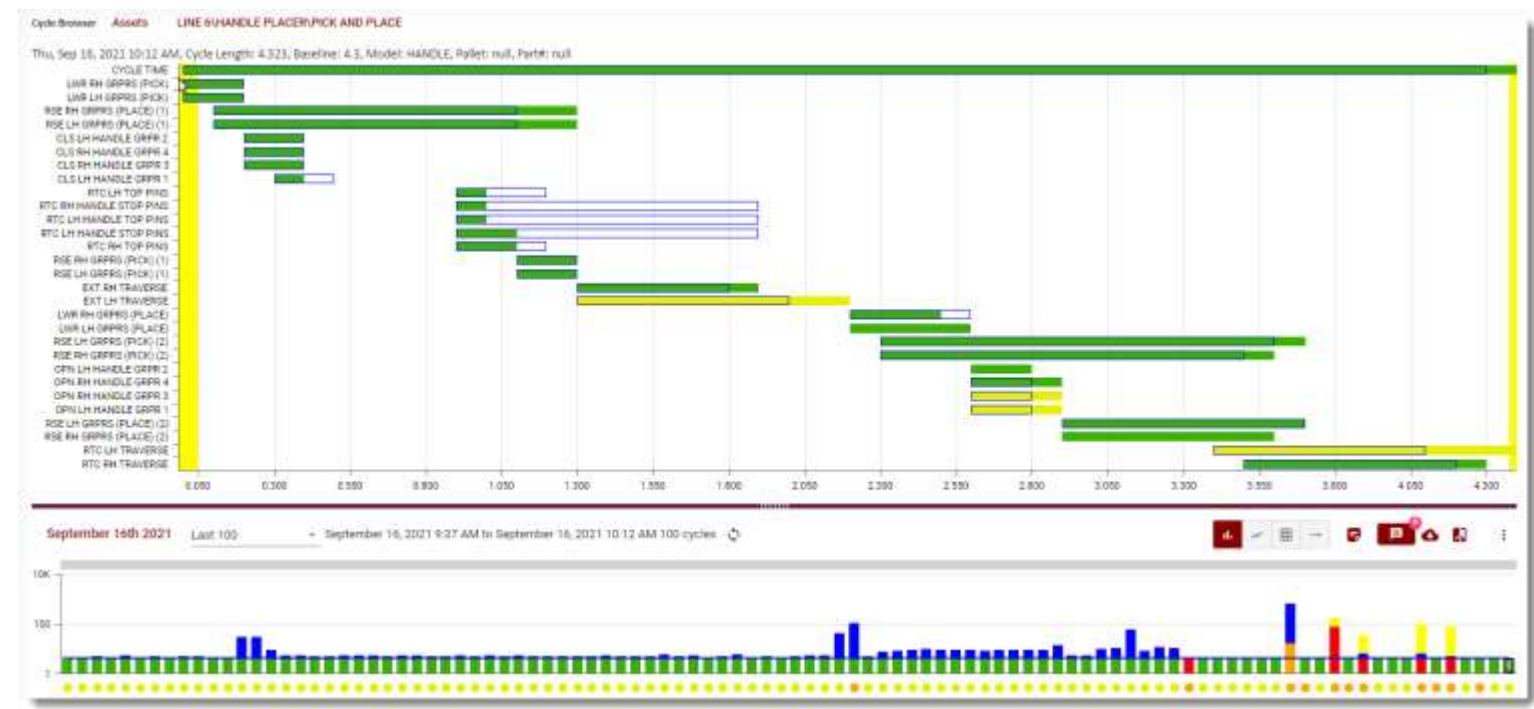
Select an Asset

Name	Cyc...	Status
LINE 6\HANDLE PLACER\CAN SHUTTLE	100	<div style="width: 100%; height: 10px; background-color: green; border: 1px solid black;"></div>
LINE 6\HANDLE PLACER\PICK AND PLACE	100	<div style="width: 100%; height: 10px; background-color: green; border: 1px solid black;"></div>
LINE 6\HANDLE PLACER\HANDLE FEED	100	<div style="width: 100%; height: 10px; background-color: green; border: 1px solid black;"></div>

Selection of a Station object will open the "Select an Asset" window. Select the Asset you would like to view.



From there you will then have to select an asset to view, the same as selecting a single asset the history display panel will open. From here select a cycle to view. Once selected, the history display panel will reduce to the lower part of the cycle browser window, and the upper main display will display the cycle selected.

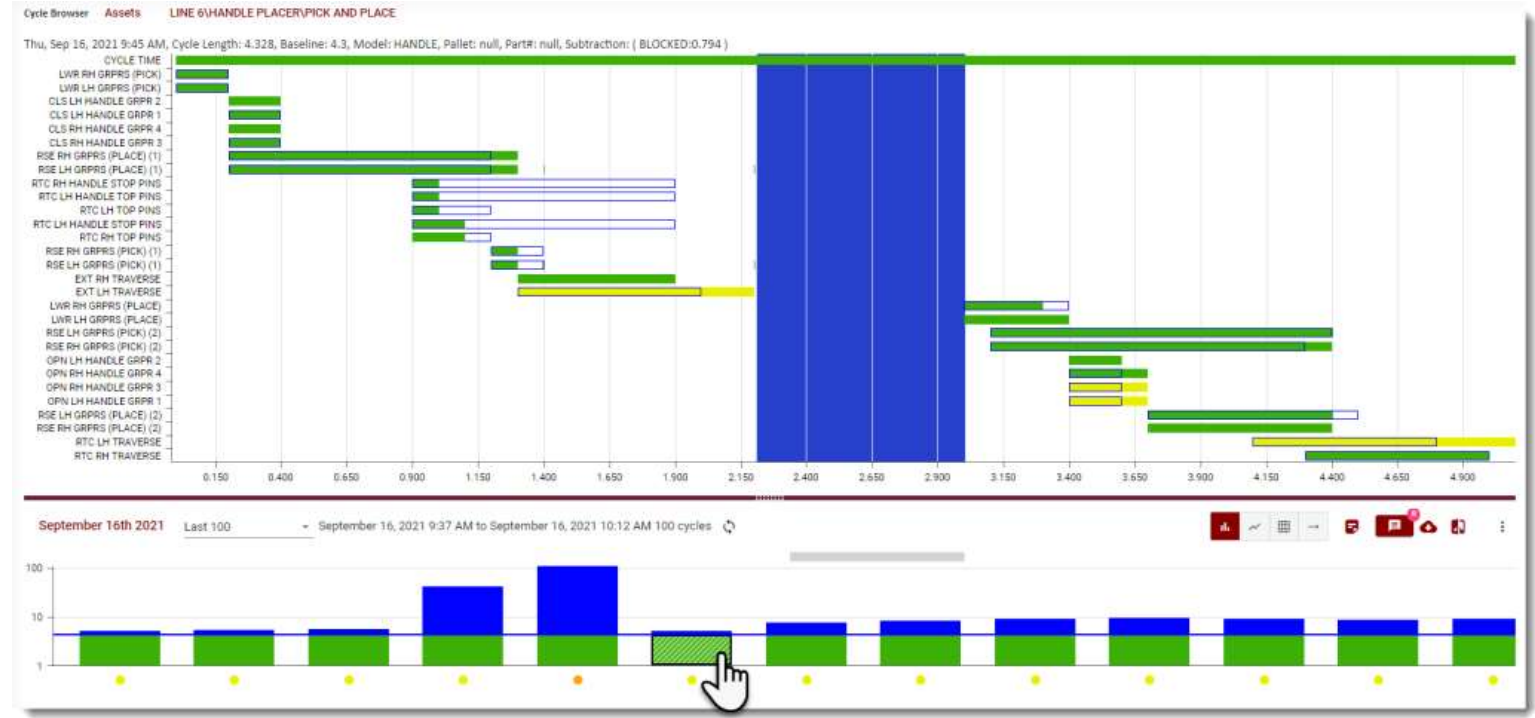


Selecting another cycle

To Select another cycle, go to the bottom of the cycle browser, in the History Display Panel. From here you can select a cycle to view in the Upper Graphical area of the cycle browser. While browsing over the History Display Panel, you can hover over a cycle to view the details of that cycle.



Select a cycle by clicking on a cycle on the History Display Panel. After you click on it, a highlight will appear around the selected cycle, and the upper window will update with the selected cycle.



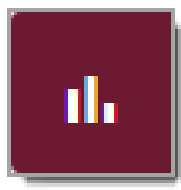
History Display Views

- History Display Views
- Column
- Model
- Grid
- Sequence
- Day/Hour Option
- Object Properties
- History Display Option Buttons
- Messages
- Notes
- Download Cycles
- Showing Messages and Analog in Cycle View

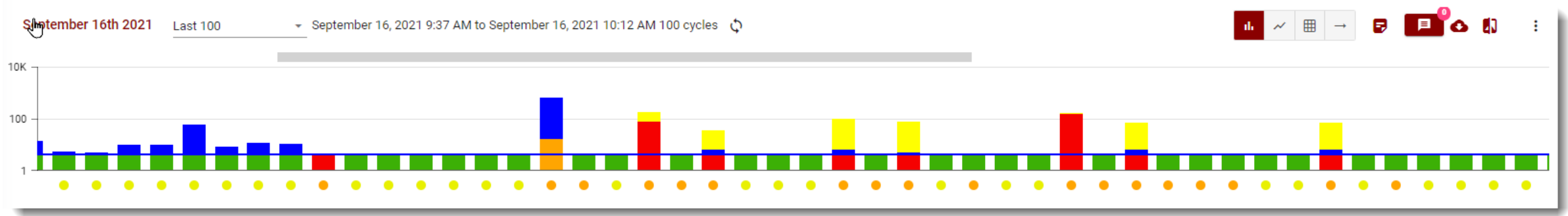


Located on the lower right of the cycle browser, are 4 buttons to change the views to on how to display the History Display Panel. The history display panel defaults to the column view. The other views available are the model view, grid view, and sequence view.

Column



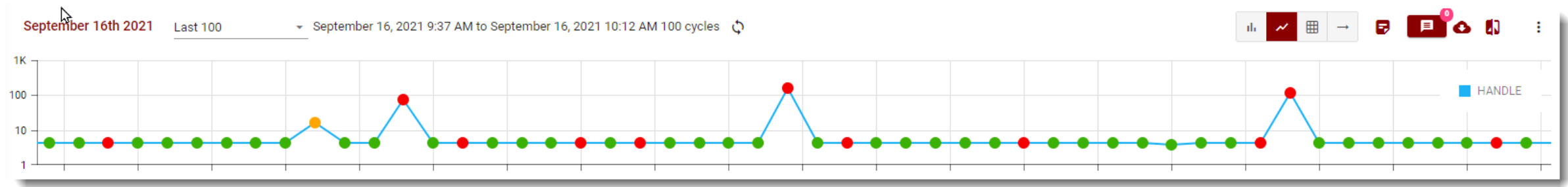
The column view displays a bar graph is color coded. Each bar shows the approximate cycle length. Below the bar is a status dot. the dot will display the occurrence over on good cycle motion. If there was an hovercycle or a warning within the cycle, then it will appear below the cycle bar. A green bar with an orange dot shows that there was a warning over cycle within that good cycle.



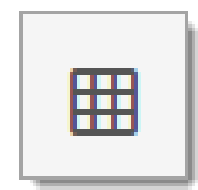
Model



The model view will display all the models of the cycle in a dotted line graph. The different models will be displayed to the far right. The user can click and toggle on and off and he modeled he would like to view.



Grid



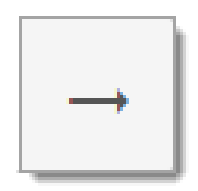
The grid view displays the data in a table view.

September 16th 2021 Last 100 September 16, 2021 9:37 AM to September 16, 2021 10:12 AM 100 cycles

Asset Name	Start	Cyclelength/Baseline	Model Name	Model Type	Pallet	Part Number	State Subtraction
PICK AND PLACE	9/16/21 9:44:01 AM	41.221/4.3	HANDLE	GOOD			PRIMARYSTARVED,0.0, BLOCKED,36.913
PICK AND PLACE	9/16/21 9:45:48 AM	106.903/4.3	HANDLE	GOOD			BLOCKED,102.555
PICK AND PLACE	9/16/21 9:45:53 AM	5.122/4.3	HANDLE	GOOD			BLOCKED,0.794
PICK AND PLACE	9/16/21 9:46:01 AM	7.645/4.3	HANDLE	GOOD			BLOCKED,3.316
PICK AND PLACE	9/16/21 9:46:09 AM	8.425/4.3	HANDLE	GOOD			BLOCKED,4.076
PICK AND PLACE	9/16/21 9:46:18 AM	8.946/4.3	HANDLE	GOOD			BLOCKED,4.598

25 50 100 Page 1 of 4 (100 items) 1 2 3 4

Sequence



The sequence view displays bars across a title line. this gives a view of the last 100 cycles with the downtime between cycles. (The white area between cycles).



Day/Hour Option

September 16th 2021 Last 100 September 16, 2021 9:37 AM to September 16, 2021 10:12 AM 100 cycles

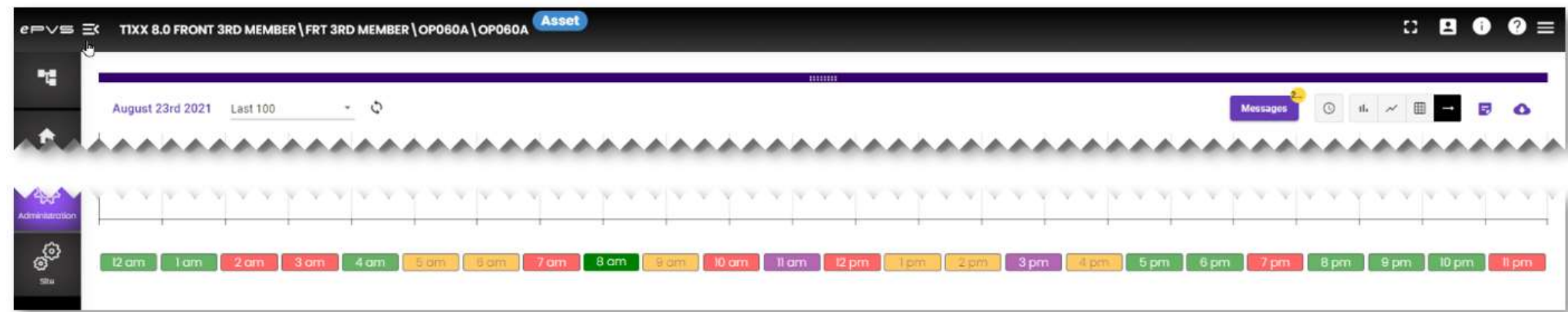
On the far left just above the history display panel, is the current date. This is an actual link to select a different date just click on it. This will open a select date window of the last 20+ days. It will show the date, how many cycles are on that day, and the actual status for that day. This status will be displaying how many good, over cycle, missing, and faulted statuses.

Name	Cyc.	Status
September 16th 2021	1999	
September 15th 2021	1260	
September 14th 2021	4289	
September 13th 2021	766	
September 10th 2021	2404	
September 9th 2021	5067	
September 8th 2021	2839	
September 7th 2021	92	
September 4th 2021	1387	
September 3rd 2021	6329	
September 2nd 2021	3805	

Good: 56
 Watch: 0
 Warning: 0
 Faulted: 0
 Missing: 0
 Total: 56

Selecting one of the days in this window will open a day hour range window. This is a history displayed with all 24 hours displayed on the bottom. For that day the highlighted hours will contain ran cycles for that day.

7 am 8 am 9 am



The user can hover over any of these hours to view the detailed information on how many good, watch, warning, faulted, and missing cycles for that hour. It also displays the total cycles for that hour. Selecting an hour will open the history display panel that allow you to select and view a specific cycle.



This view would be the same as a normal cycle view, however the hour selection menu will remain on the bottom below the history display panel. From there you can browse any hour for that day.

Next to the date selection is a dropdown menu that will allow you to select from the last 100 cycles, yesterday, or today. Selected last 100 cycles will simply display the last 100 cycles. Selecting yesterday or today it will open a display panel containing an Hour Selection tab below the History Display Panel. This feature works similarly to the date selection option.



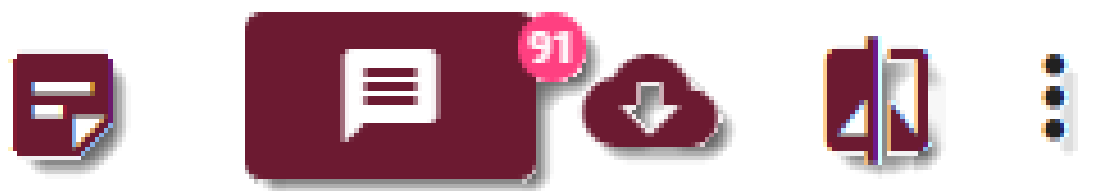
Object Properties

The Object Properties are in the top left of the cycle browser. Model, AGV, Part, Cycle Length, Baseline, and time data can all be located here.

Assets FRT 3RD MEMBER\OP060A\OP060A

Thu, Aug 26, 2021 8:22 AM, Cycle Length: 44.904, Baseline: 60, Model: 3.23 T1, Pallet: null, Part#: 942945584

History Display Option Buttons



Messages



In the Cycle View browser, there is the Message module. Selecting this will open a window to view the current messages based upon the cycles in the History Display Panel.

Messages

Drag a column header here to group by that column

Search

Code	Message	Datetime	Duration (seconds)
BLKDN	gEnvUser_OP060A_Faults[24] 3 - OP060A BLOCKED	Wednesday, August 25, 2020 8:00 PM	38.87
BLKDN	gEnvUser_OP060A_Faults[24] 3 - OP060A BLOCKED	Wednesday, August 25, 2020 8:01 PM	116.38
BLKDN	gEnvUser_OP060A_Faults[24] 3 - OP060A BLOCKED	Wednesday, August 25, 2020 8:04 PM	15.67
BLKDN	gEnvUser_OP060A_Faults[24] 3 - OP060A BLOCKED	Wednesday, August 25, 2020 8:05 PM	13.49
BLKDN	gEnvUser_OP060A_Faults[24] 3 - OP060A BLOCKED	Wednesday, August 25, 2020 8:06 PM	10.78
BLKDN	gEnvUser_OP060A_Faults[24] 3 - OP060A BLOCKED	Wednesday, August 25, 2020 8:07 PM	12.92
BLKDN	gEnvUser_OP060A_Faults[24] 3 - OP060A BLOCKED	Wednesday, August 25, 2020 8:07 PM	12.79
BLKDN	gEnvUser_OP060A_Faults[24] 3 - OP060A BLOCKED	Wednesday, August 25, 2020 8:08 PM	14.38
BLKDN	gEnvUser_OP060A_Faults[24] 3 - OP060A BLOCKED	Wednesday, August 25, 2020 8:09 PM	8.00
BLKDN	gEnvUser_OP060A_Faults[24] 3 - OP060A BLOCKED	Wednesday, August 25, 2020 8:10 PM	7.99

1 2 3 4 5 ... 22

Notes



The notes button will open a window that contains all the posts made in this object. It has the options to view notes made for this object or for all cycle notes.

To add a note simply goes up to the upper right-hand side and click the add note link. This will open a post feature. From there enter a title of the post, then fill out a detailed note in the post section.

Then select the priority level, otherwise it will be set at default. Then add any labels you would like to appear with this note.

Click submit, and this post will be saved to this object.

Notes Add Note Close

Title* *Insert a Title for your note or post.*

Post* *Fill out a detailed note in the post section.*

Priority: Safety Quality Downtime Maintenance General Default *Select a priority level.*

Labels *Add any relevant labels for a reference.*

Download Cycles



The user has the option to download all cycles to an excel format, by clicking the download icon on the far right.

Next the Export Cycles window will open.

Export Cycles ✕

Choose a date
Aug 25, 2021 - Aug 26, 2021

Export Cycles

From here you can select the dates you would like to view by clicking on the date range calendar or clicking on the default dates. This will open the date range calendar. Select the start date from the calendar on the left and then the end date on the calendar on the right. You could also choose from today, yesterday, or the last seven days. Once your selection is complete select the submit button.

Then click the export cycles bar. The cycles will download, and you will get a notification in the lower left-hand side that it is downloaded to your Download folder.



Export Cycles

Choose a date
Aug 25, 2021 - Aug 26, 2021

FROM: Aug 25, 2021

AUG 2021 < >

S M T W T F S

AUG						
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

TO: Aug 26, 2021

AUG 2021 < >

S M T W T F S

AUG						
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

Today

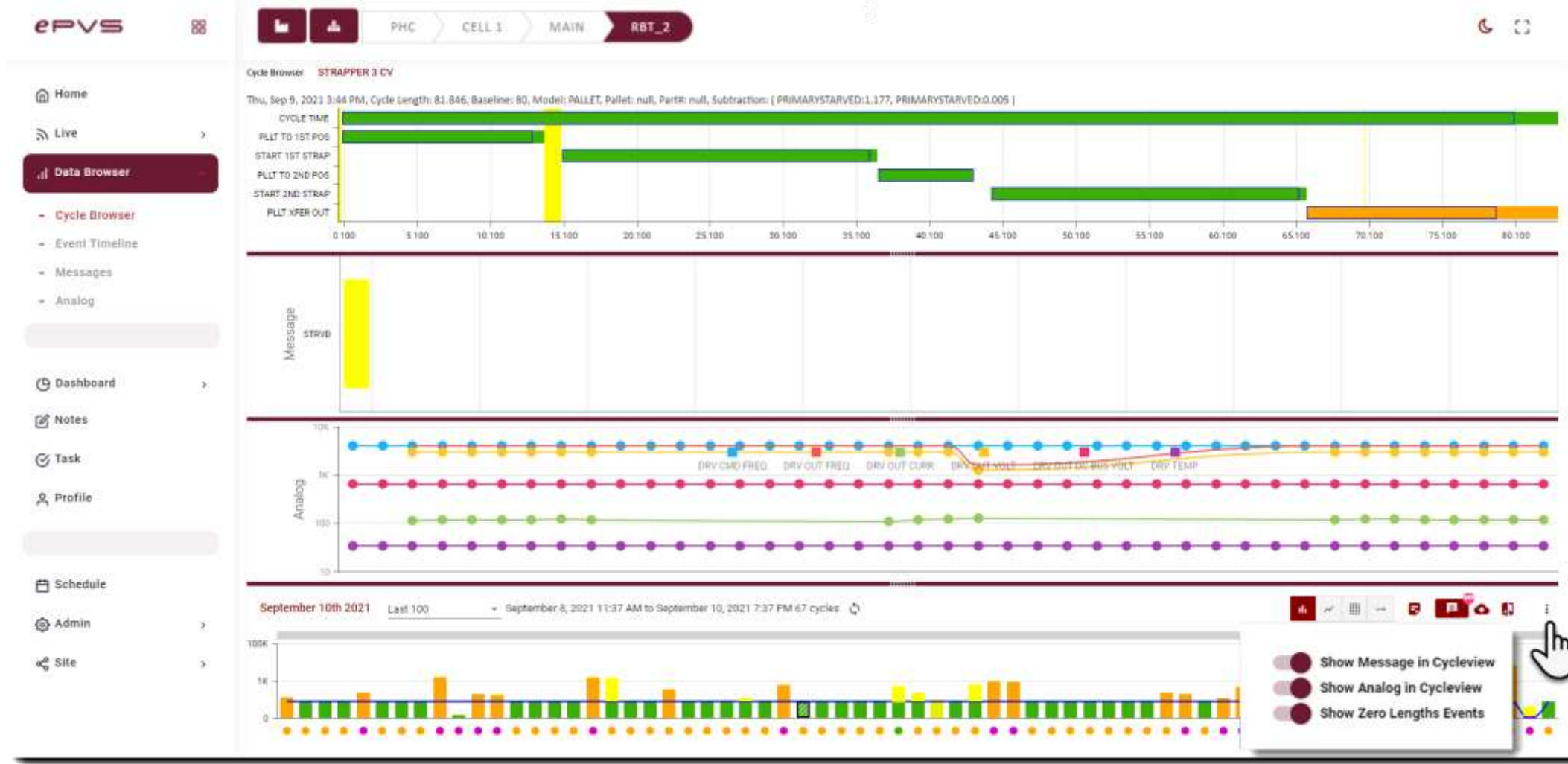
Yesterday

Last 7 Days

Submit Cancel

Showing Messages, Analog in Cycle View, and Zero Lengths Events

The user can choose to hide or display the **Message**, **Analog data**, and **Zero Lengths Events** from displaying in the Cycle Browser. Simply click on the **3-dot menu icon**, then switch either **On** or **Off**.



This block shows a close-up of the 3-dot menu. It contains three toggle switches, each with a red circle to its left. The first toggle is labeled 'Show Message in Cycleview', the second is 'Show Analog in Cycleview', and the third is 'Show Zero Lengths Events'. All three toggles are currently in the 'Off' position.

Zero Length Cycles

The user can toggle On or Off the Zero Length Cycles displayed in the Cycle Browsers. Because of the use of Switches, State Changes, or any that will display a zero-length cycle motion, can be omitted from displaying by toggling off the Show Zero Lengths Events toggle. Turning off this feature will reload the Main graph and display the data without the Zero Length cycles.

When this feature is set, it will not only take effect in the Cycle Browser, but it'll take effect in any browser that displays the data, or a Sequence event, such as the Summary View, quick cycles, and other cycle displays.

Zero Length Events Toggle





Cycle Compare Module



The [Cycle View Evaluation Module](#) will allow users to view multiple cycles at the Asset and Group object level in the cycle view browser.

- [Cycle Compare Module](#)
- [Quick Guide](#)
- [Open Cycle View](#)
- [Selecting Cycles to Compare](#)
- [Open Cycle Compare Window](#)
- [Configure Cycle Collection](#)
- [Adding Cycles](#)
- [Cycle Compare View Options](#)
- [Auto Compare](#)
- [Data Browser Messaging Features](#)
- [Messages](#)
- [Messages-Bulk Download \(if applicable\)](#)

It can be utilized with any cycle, regardless of its status (watch, warning, etc.). The three main parts used for this module is the Cycle View Browser, Cycle Compare (Collection) Window, and the Cycle Compare Browser.



Quick Walkthrough

- Step 1. Open Cycle Browser.
- Step 2. Select a cycle to compare.
- Step 3. Open the Cycle Compare Collection window. Name the collection, by using edit window. Create a new cycle collection.
- Step 4. Click on the Collection folder, then add the cycle.
- Step 5. Go back to the cycle view and select a different cycle, then click the Cycle Compare button again.
- Step 6. Click on the previous cycle saved, then click Add Current Cycle to Collection button.
- Step 7. Repeat steps 5 and 6 until all your selection are made.
- Step 8. Click the Run Compare button to view.

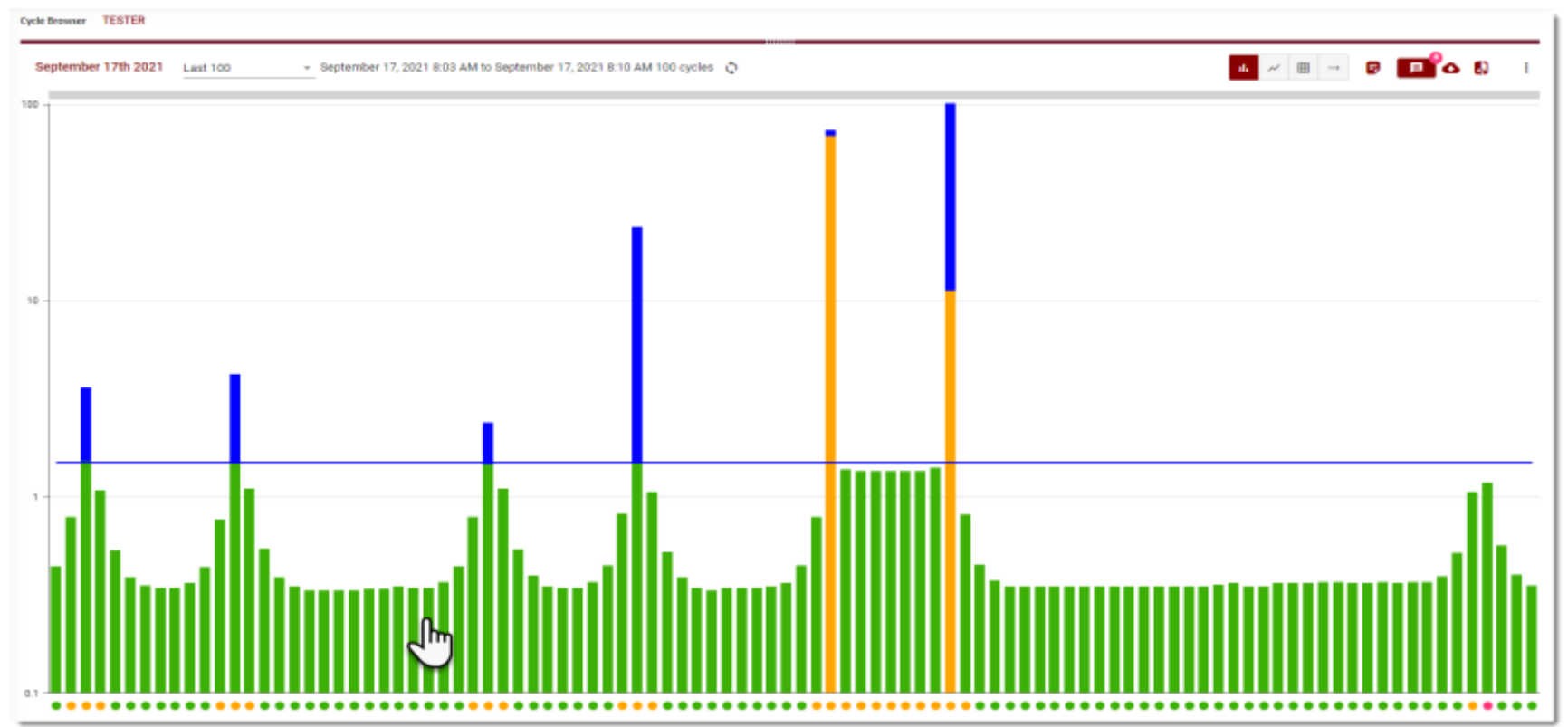
Open Cycle View

First, navigate to get to the Cycle View Browsers, so that the History Display Panel can be accessed.

After opening the ePVS browser, click on the Object Tree icon to open the Main Tree. Navigate the Main Tree to drill down to the Asset or Group level. This module is active at the Asset levels and below.

Name	Type	Quick Link
> TEST-AREA	Area	Home Note
▼ TEST-NS-AREA	Area	Home Note
▼ TEST-NS-LINE-2	Line	Home Note
▼ NOZZLE PLACER	Station	Home Cycles Timeline Analog Messages Note
> NOZZLE PLACER	Asset	Home Cycles Timeline Analog Messages Note
▼ NS TEST ASSET	Asset	Home Cycles Timeline Analog Messages Note
CYCLE TIME	Group	Home Note

The Cycle View window will update with the last 100 cycles. Select a cycle from the History Display Panel.



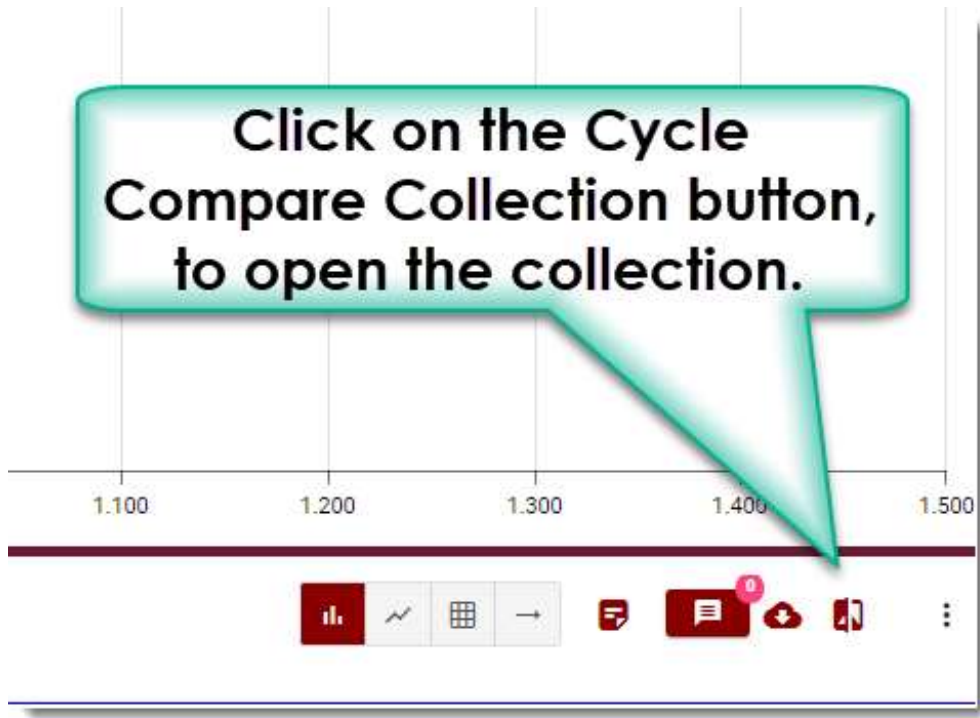
Selecting Cycles to Compare

Once the **ePVS** browser is open, select the Cycle view tab from the top menu tab and a new **Cycle View** window will reveal with the last 100 cycles in the **History Display Panel** (in the lower browser window).

Select a cycle from the **History Display Panel**. Once a cycle is selected, it will be highlighted, showing that it is selected.



Open Cycle Compare Window

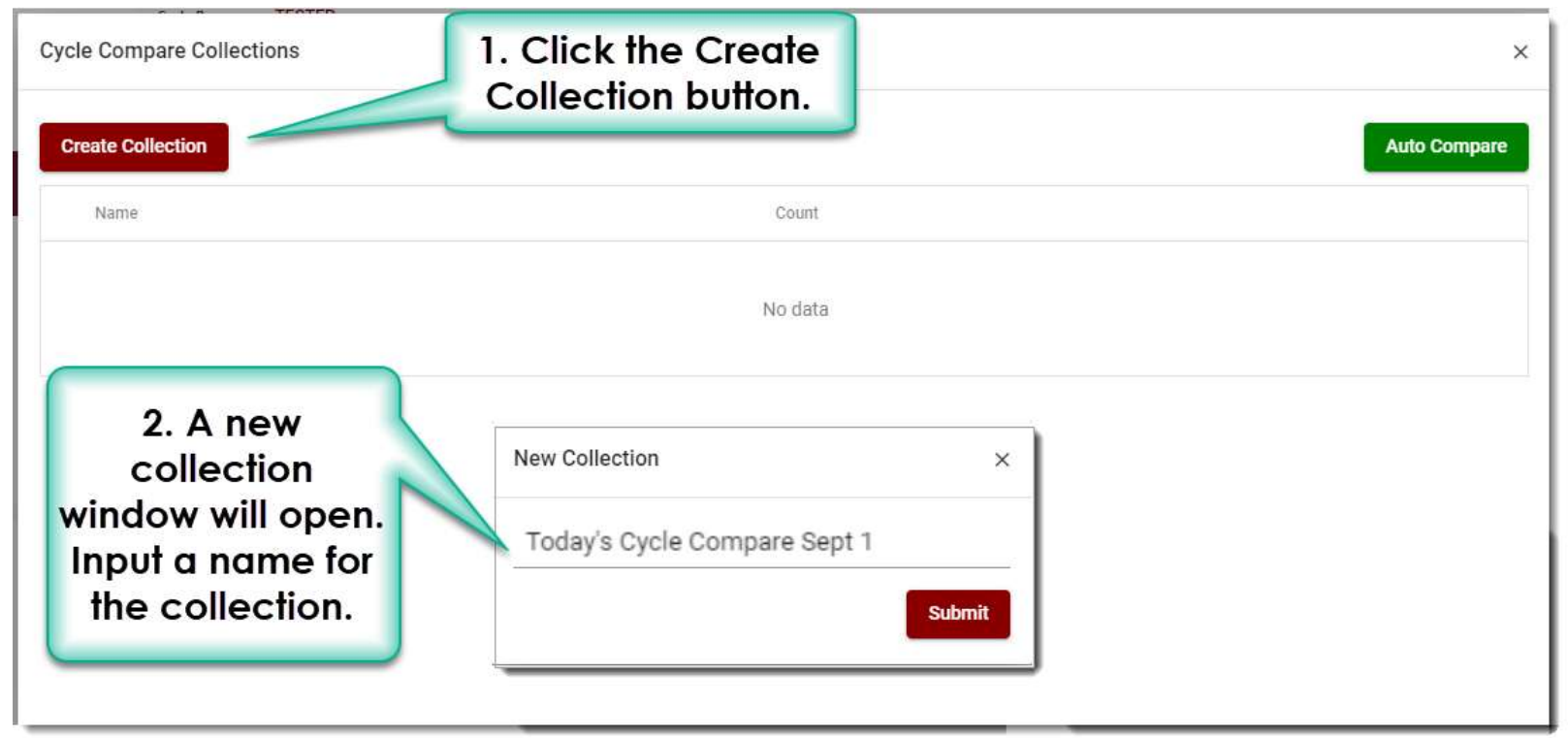


When the cycle is clicked on, the upper display window will show the cycle selected. In the right-hand side above that History Display Panel will be the **Cycle** Compare button.

Configure Cycle Collection

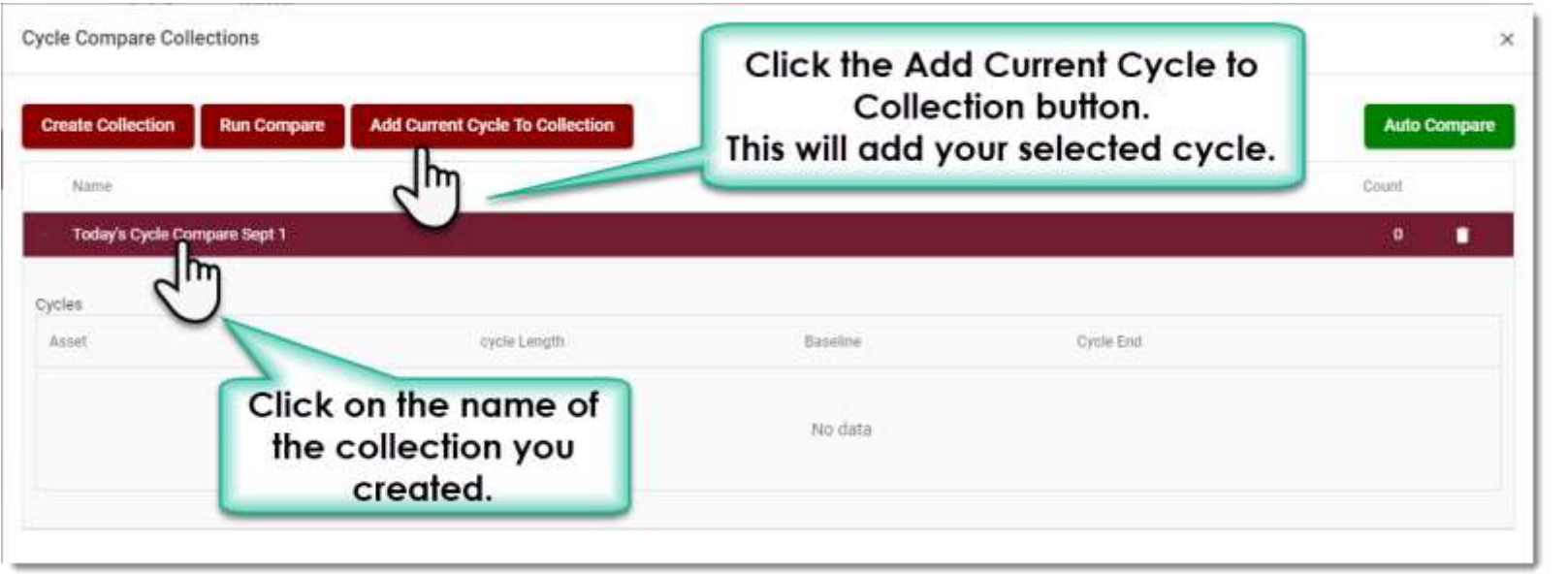
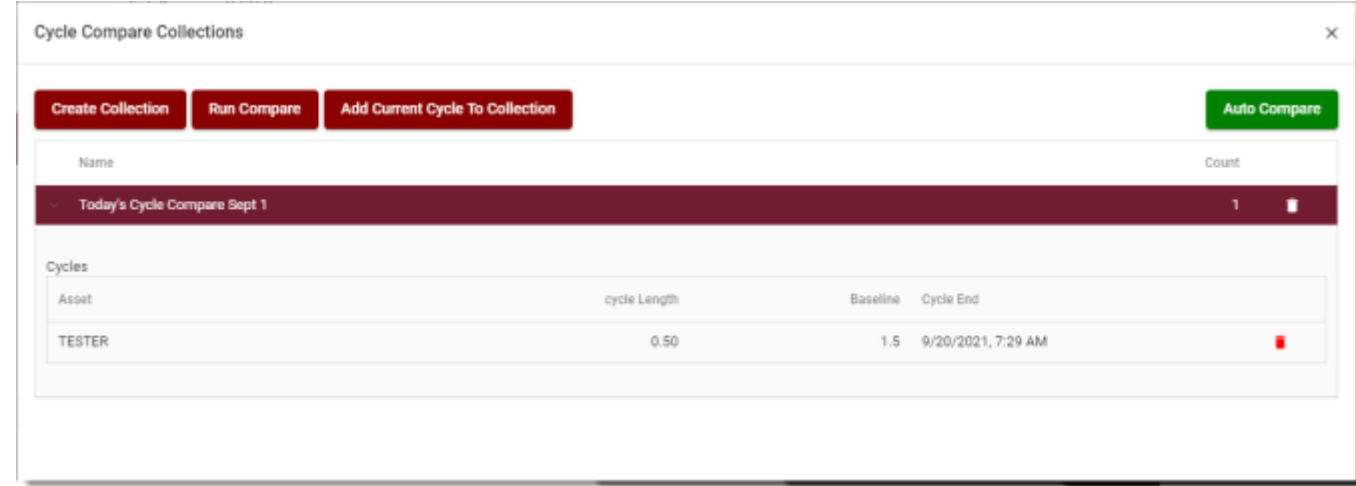
When the **Cycle Compare Collection** window opens, click the **Create Collection** button, and input a *Name* for the cycle's folder, then select the **Submit** button.

This will update the window with a new folder (**Today's Cycle Compare Sept 1**) and the first selected cycle.



Click on the **Name** of the Collection to proceed.

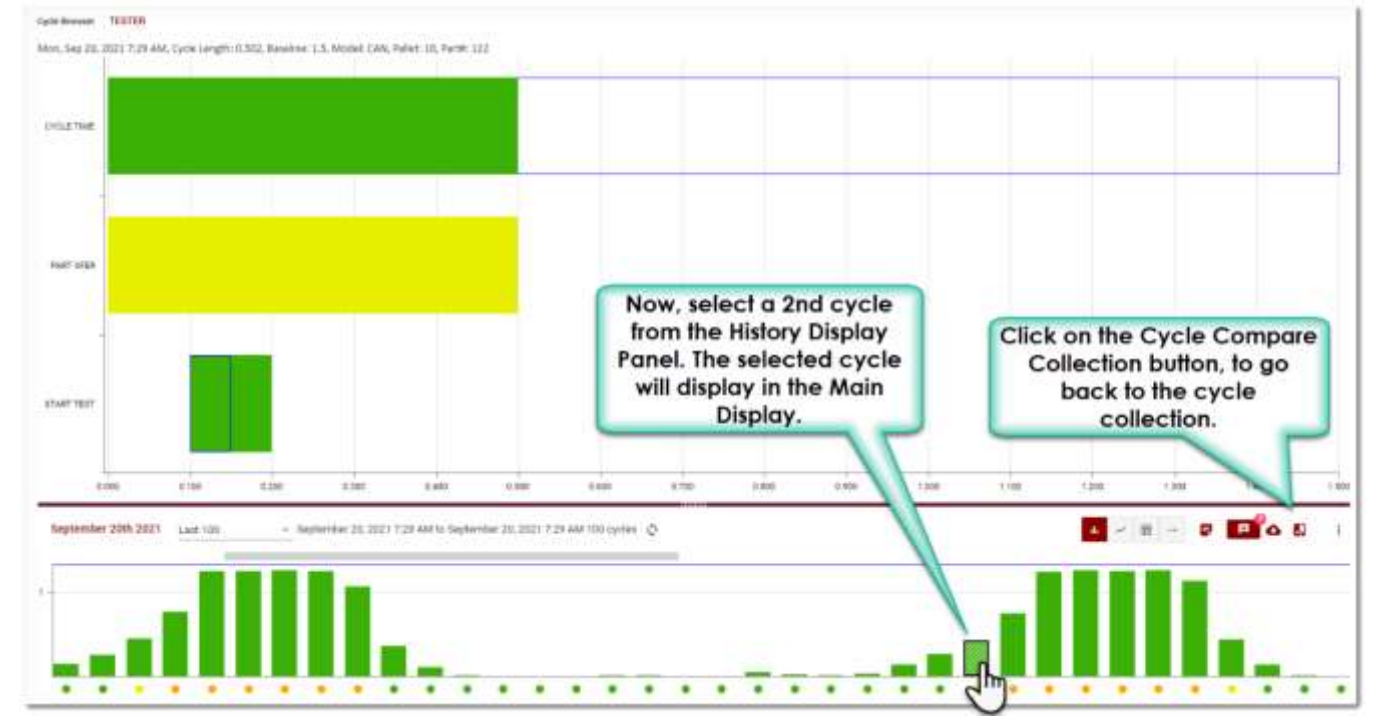
This will open more options to proceed. Click on the **Add Current Cycle to Collection**, and this will add the current select cycle to the collection.



Adding Cycles

To add more cycles, you will have to select another cycle from the History Display Panel. Close the Cycle Compare Collection by clicking on the X in the upper right-hand side of the window.

Select another cycle, review in the upper display, then click the Cycle Compare Collection button.



The Cycle Compare Collection window will open. Click on the first cycle that was selected, then select the **Add Current Cycle to Collection** button. This will add it to your selection.

NOTE: Ensure that you select the correct Collection you want to compare with. If many Collection folders are already present in the Cycle Compare window, it is possible to add to a different collection, so selecting the wrong cycle will pair your selection to that cycle instead of the intended one.

Now with 2 (or more) cycles in the Cycle Compare folder (**Today's Cycle Compare Sept 1**) you can select the **Run Compare** button, and this will show the 2 (or more) cycles in the upper browser window.

NOTE: To Remove or Delete a cycle, or a Collection, simply click on the Delete icon to right of the cycle.



Cycle Compare Collections

Create Collection Run Compare Add Current Cycle To Collection Auto Compare

Name Count

Today's Cycle Compare Sept 1 3

Cycles

Asset	cycle Length	Baseline	Cycle End
TESTER	0.30	1.5	9/20/2021, 7:29 AM
TESTER	0.30	1.5	9/20/2021, 7:29 AM
TESTER	1.35	1.5	9/20/2021, 7:29 AM

Now with 2 (or more) cycles in the Cycle Compare folder, you can select the Run Compare button, and this will show the 2 (or more) cycles in the upper browser window.

The cycles will be displayed on top of the other. Hovering over a bar will reveal the details of the cycle. On the top of the display, will be the cycle information of the cycles selected and stored in the Cycle Compare Collection.

Cycle Compare Collections

Create Collection Run Compare Add Current Cycle To Collection Auto Compare

Name Count

Today's Cycle Compare Sept 1 3

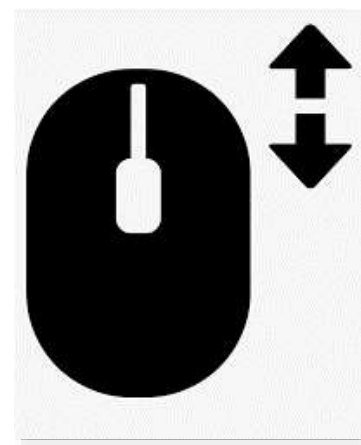
Cycles

Asset	cycle Length	Baseline	Cycle End
TESTER	0.30	1.5	9/20/2021, 7:29 AM
TESTER	0.50	1.5	9/20/2021, 7:29 AM
TESTER	1.35	1.5	9/20/2021, 7:29 AM

To delete a collection, click the Delete Icon.

To delete a cycle, click the red Delete icon.

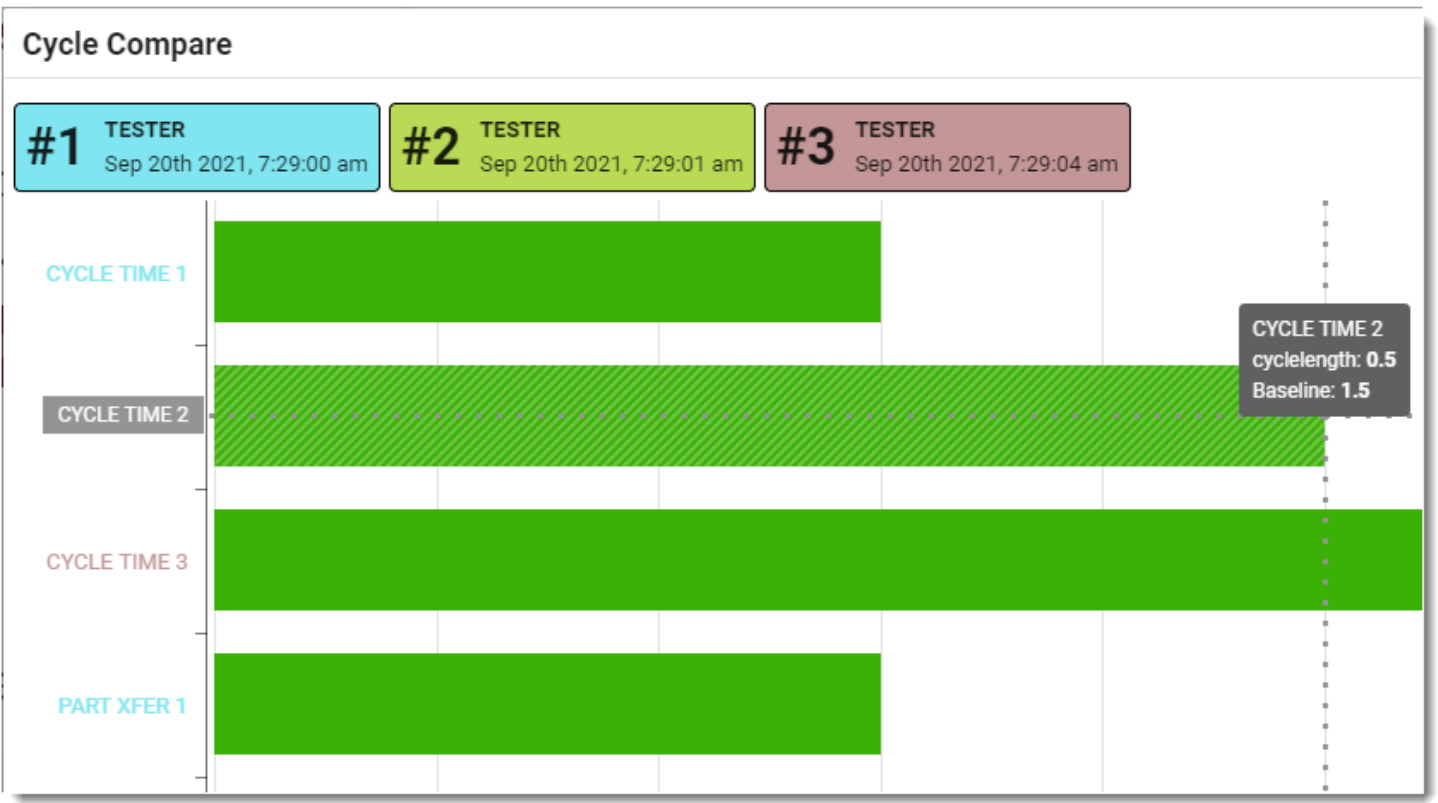
Zoom Feature



While viewing the cycles in this cycle compare window, you can zoom in to a collection by click and holding, then drag the zoom selection area over your intended cycles or using the mouse scroll feature.

The selected area will be highlighted, then Update to a zoomed in view on your selection.

The zoomed area is now reopened to the selected area. To the Reset Zoom, use the scroll roller to reset.



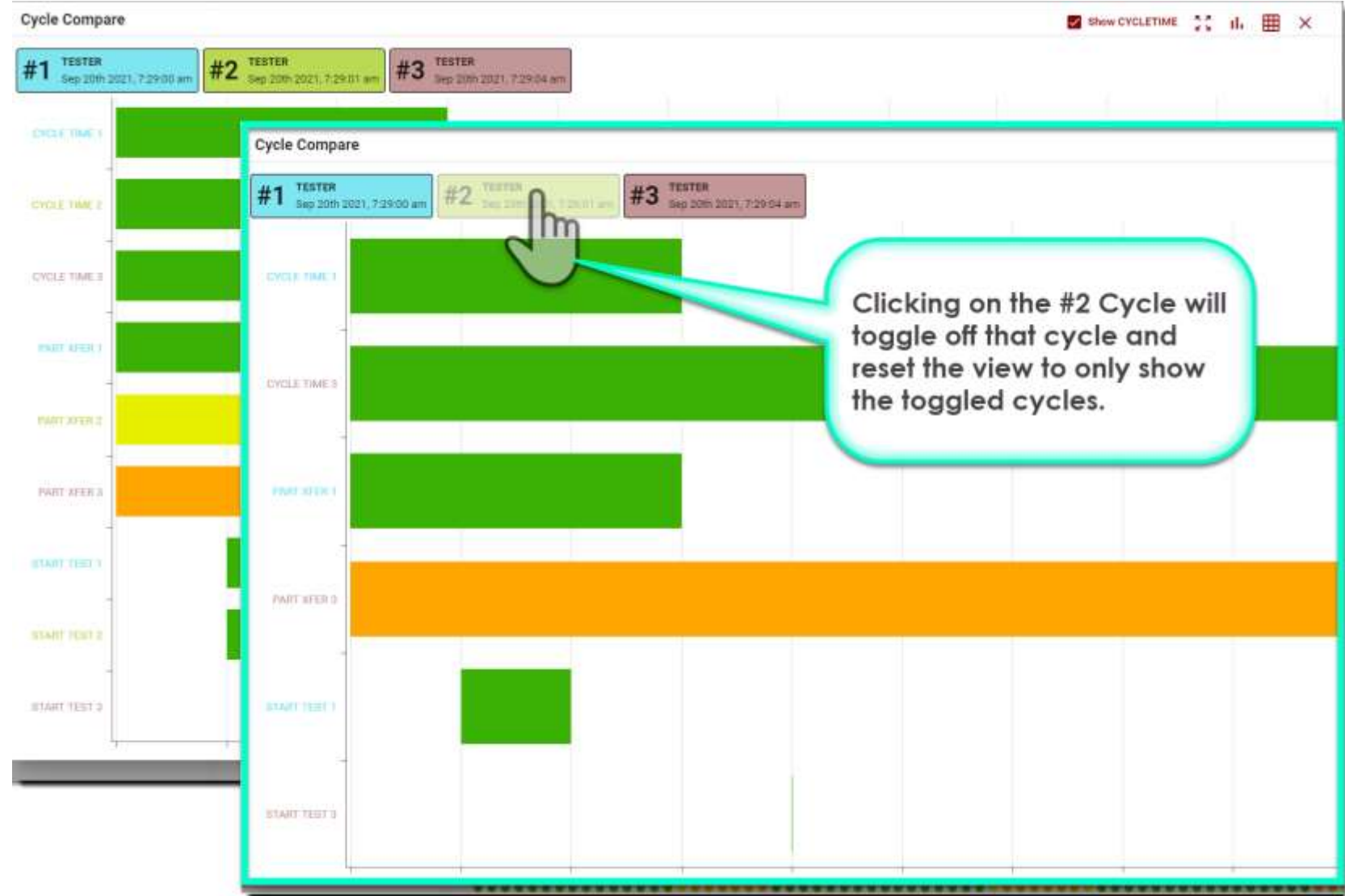
Cycle Toggle Feature

When viewing the Cycle Compare Browser with multiple cycles, it is possible to remove the cycle data from the present Compare window. With two or more cycles displayed, you can click on the Cycle Information Tiles on the top of the window.

Click on any one or more of the Cycle Information tiles to remove from the Cycle Compare browser area. Click on it again to add it back to the browser.

Clicking on the Cycle Information tile will toggle to deselect or select a cycle.

Note: This is only for the cycles that were selected and saved to the collection. You can add additional cycles if needed.





Cycle Compare View Options



Show Cycle Time

The user can remove the Cycle Time parameter by unchecking the checkbox.

Full Screen

Click to view the browser in full screen mode, like the F11 hot key.

Bar View

Bar View is the default view for the Cycle Compare Module. Use this button to go from the Chart View.

Chart View

The Chart View will allow you to view this graphical display as a Table Chart.

Cycle Compare
 Show CYCLETIME 🔍 📊 📄 ✕

#1 TESTER
Sep 20th 2021, 7:29:01 am

#2 TESTER
Sep 20th 2021, 7:29:01 am

#3 TESTER
Sep 20th 2021, 7:29:04 am

Group Name	Cycle Length	Baseline	Model Name	Part Number	Cycle number
CYCLE TIME 1	0.4	1.5	CAN	120	1632137340989205
CYCLE TIME 2	0.5	1.5	CAN	122	1632137341935152
CYCLE TIME 3	1.3	1.5	CAN	124	1632137344045276
PART XFER 1	0.393	0.4	CAN	120	1632137340989205
PART XFER 2	0.502	0.4	CAN	122	1632137341935152
PART XFER 3	1.354	0.4	CAN	124	1632137344045276
START TEST 1	0	0.05	CAN	120	1632137340989205
START TEST 2	0.1	0.05	CAN	122	1632137341935152
START TEST 3	0	0.05	CAN	124	1632137344045276

Auto Compare

Auto Compare

Auto Compare will allow the user to setup an auto comparison based on how many cycles you would like to compare, based upon a selected number of cycles.

Simply click on the Auto Compare button, then the Auto Compare setup window will reveal:

1. Set the number of Cycles to compare.
2. Select the cycle spread you would like to choose from.

Auto Compare ✕

Number of Cycles to compare
5 ✕

Cycle Spread
1000 ✕

Submit

Cycle Compare Collections ✕

Create Collection
Auto Compare

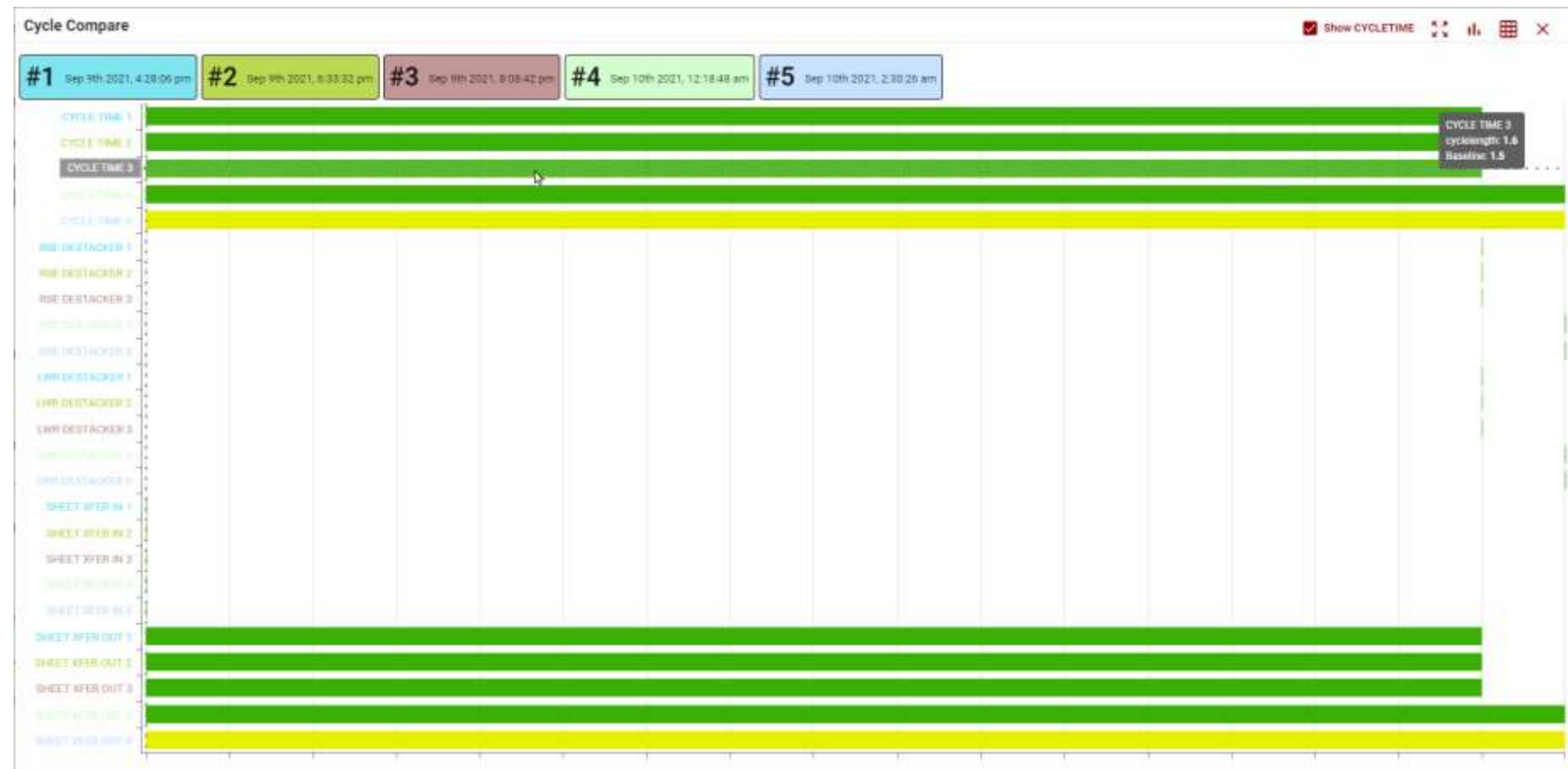
Name	Count
No data	

Auto Compare ✕

Number of Cycles to compare
5 ✕

Cycle Spread
1000 ✕

Submit



Data Browser Messaging Features

Messages

In the messages tab, the messages will display a table of all the message history. The table consists of several columns including Code, Message, Datetime, Shift, Article Name, Description, and the Delta parameter.

All these parameters can be sorted as well as the ability to drag and drop by the header, to group by that column.

Message History (Records: 205) Choose a date
Apr 26, 2020 - Apr 27, 2020

Drag a column header here to group by that column 📄 🔍 Search...

Code	Message	Datetime	Shift	Article Name	Description	Delta
FLTD_	Core Set Area Safety Door Ope...	4/27/2020	1st Shift	L3 F80-3S	Faulted	85.144
FLTD_	Core Set Area Light CurtainFau...	4/27/2020	1st Shift	L3 F80-3S	Faulted	18.07
ALARM	Mold Cycle Overtime-EnvUser...	4/27/2020	1st Shift	L1 F80-3S	PLACEHOLDER	19.543
ALARM	Mold Cycle Overtime-EnvUser...	4/27/2020	1st Shift	L1 F80-3S	PLACEHOLDER	13.696
BLKDN	System Blocked	4/27/2020	1st Shift	L1 F80-3S	Blocked Down	36.414
ALARM	Mold Cycle Overtime-EnvUser...	4/27/2020	1st Shift	L1 F80-3S	PLACEHOLDER	0.533
MOA_	System No Mode	4/27/2020	1st Shift	L1 F80-3S	Mode Out of Auto	1.606
ALARM	Mold Cycle Overtime-EnvUser...	4/27/2020	1st Shift	L1 F80-3S	PLACEHOLDER	16.941
FLTD_	Core Setter Position Fault-EnvU...	4/27/2020	1st Shift	L3 F80-3S	Faulted	62.938
BLKDN	System Blocked	4/27/2020	1st Shift	L1 F80-3S	Blocked Down	1.056
FLTD_	Core Setter Position Fault-EnvU...	4/27/2020	1st Shift	L1 F80-3S	Faulted	9.009
BLKDN	System Blocked	4/27/2020	1st Shift	L3 F80-3S	Blocked Down	403.822

Messages-Bulk Download (if applicable)

In the messages bulk download tab, the user can download a zip file of all those selected messages from any object selected. Just select the date you would like to include, then drill down to the objects you want to add to the zip file. Then click download a zip. When it finishes, it will display a message to the right of the download to zip button.

Messages - Bulk Download

Choose a date
Jan 26, 2021 - Jan 26... Download as ZIP >> Download messages request received. We will send you an email with a link to download the gzipped CSV file.

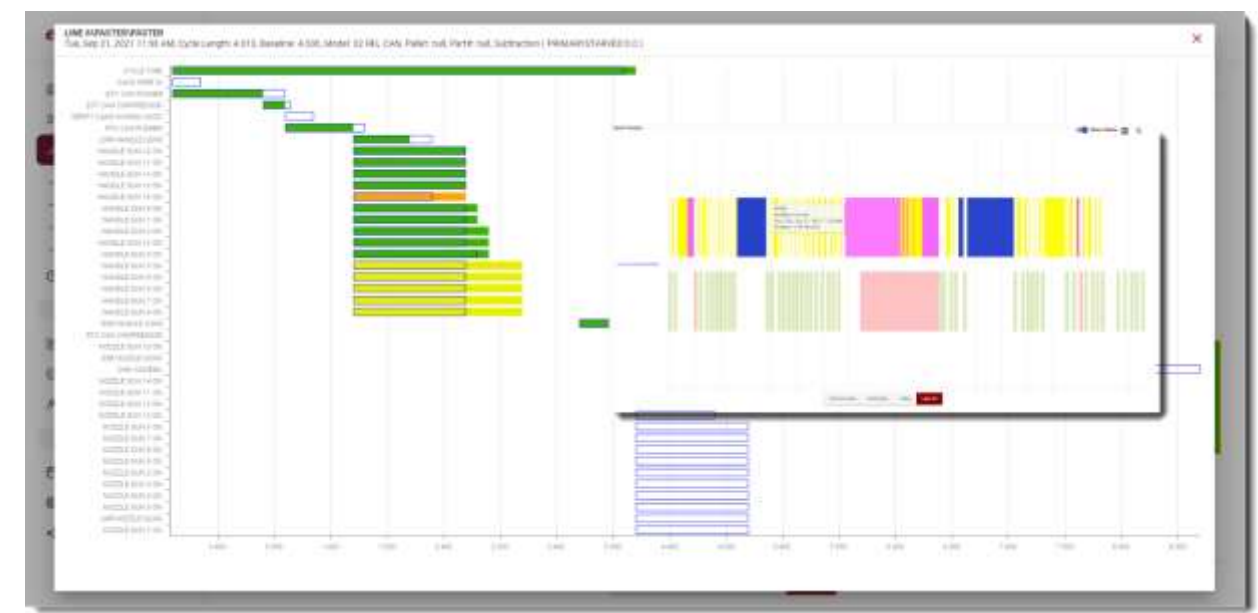
- Development Simulations - DO NOT DELETE M
 - > G-Test Area M
 - > PLC5 Area - DO NOT DELETE M
 - > Brocks-Test-Area M
- Development Area - DO NOT DELETE M
 - > Development Line - DO NOT DELETE U
 - > Development Sta 1 - DO NOT DELETE S
 - > Development Sta 2 - DO NOT DELETE S
 - S02 Fixture M

Event Timeline (Data Browser)

- History Display Window
- Chart View
- Selecting a Cycle
- Zoom Feature
- Event Timeline Browser

The Event Timeline is a simplified version of the Cycle Browser, which limits the viewing only on a timeline, or sequential display.

In this browser the user can simply select and view of cycle from a History Display window, then with a selection, it will open an Event Timeline in the sequential view.



Initially after a selection of a Station or Asset from the object tree, the user can select Timeline button from the quick links, or go to the left-hand side Main Menu, and click on the Data Browser button to reveal the submenu containing the Event Timeline selection.

1. Select the Object Tree button.

2. Drill down to the Station or Asset you would like to view.

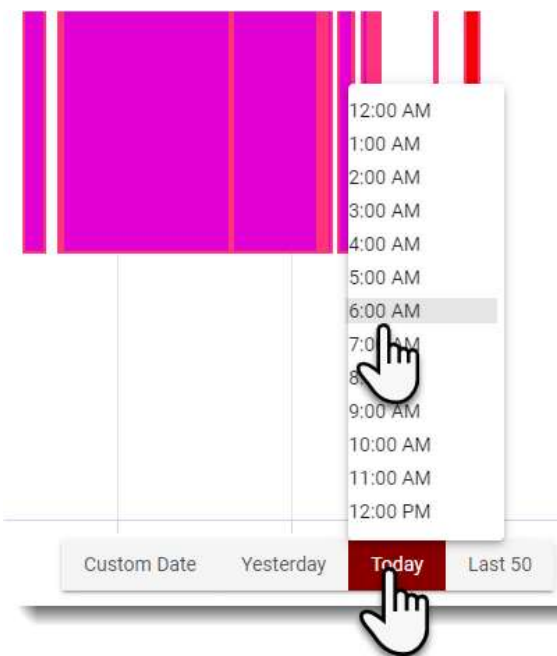
3. Select the Timeline button on the Quick Links column, to go to the Event Timeline. Or, go to #4.

4. Click the Data Browser button, then select the Event Timeline in the submenu.

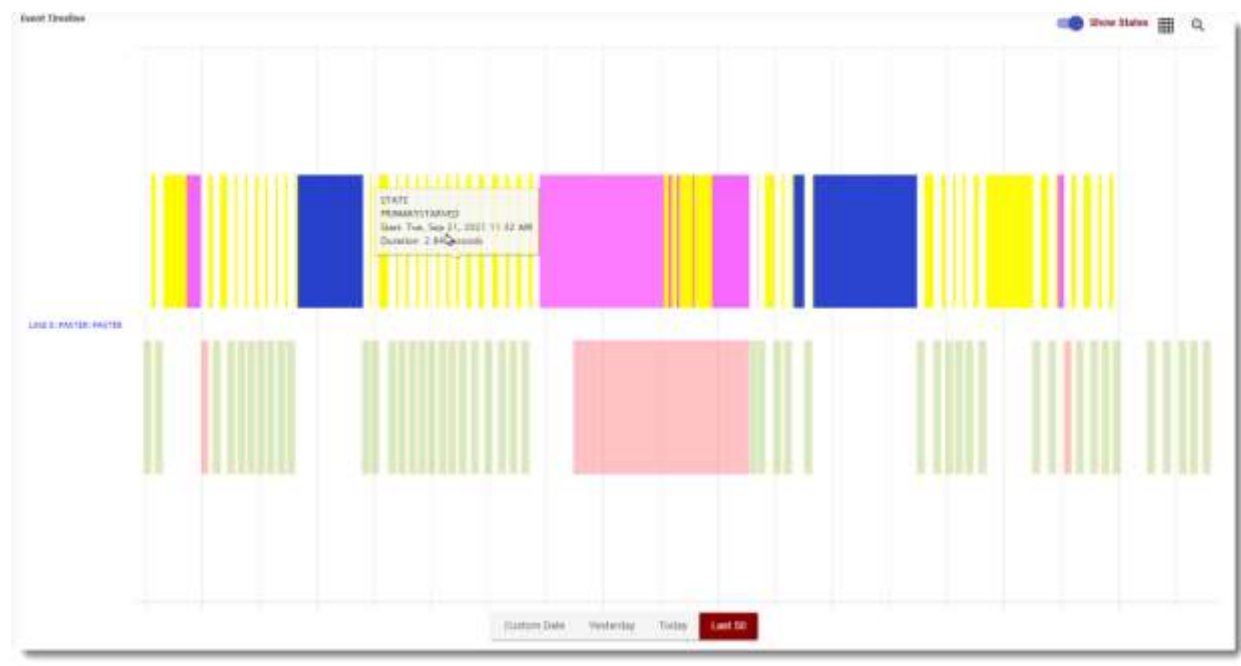
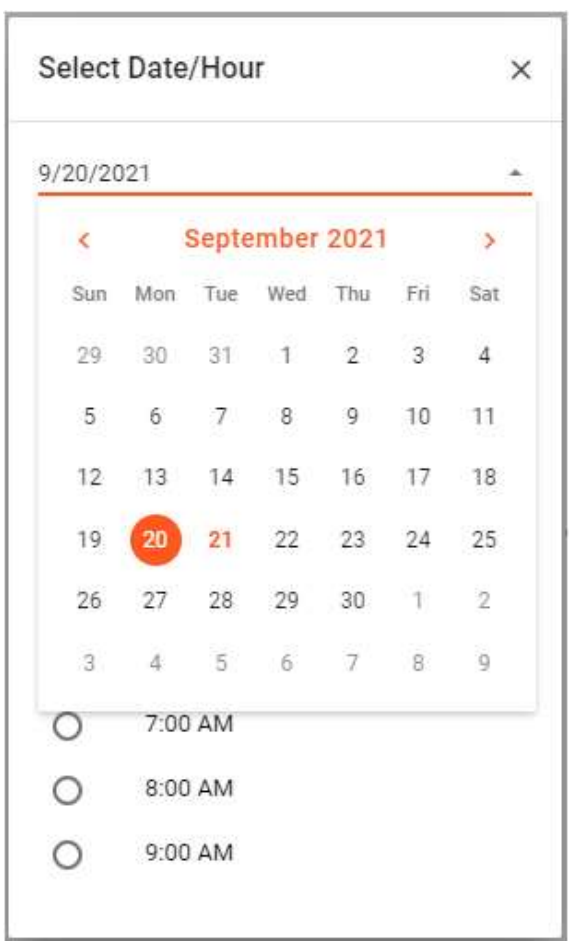
Name	Type	Quick Link
Area	Area	Home Note
LINE 5	Line	Home Note
LINE 6	Line	Home Note
SQ PACK OUTFEED CV	Station	Home Cycle Timeline Analog Message Note
BACK SQ PACK	Station	Home Cycle Timeline Analog Message Note
SQ PACK OUT ACCEL CV	Station	Home Cycle Timeline Analog Message Note
FRONT SQ PACK	Station	Home Cycle Timeline Analog Message Note
PASTE INFEED CV	Station	Home Cycle Timeline Analog Message Note
PASTER	Station	Home Cycle Timeline Analog Message Note
HAND FEED CV	Station	Home Cycle Timeline Analog Message Note
HAND ACER	Station	Home Cycle Timeline Analog Message Note
NOZZLE INFEED CV	Station	Home Cycle Timeline Analog Message Note
NOZZLE PLACER	Station	Home Cycle Timeline Analog Message Note
OVEN INFEED CV	Station	Home Cycle Timeline Analog Message Note
OVEN	Station	Home Cycle Timeline Analog Message Note
OVEN CV	Station	Home Cycle Timeline Analog Message Note
OVEN OUTFEED CV	Station	Home Cycle Timeline Analog Message Note
HANDLE CHECKER	Station	Home Cycle Timeline Analog Message Note
LEAK TEST STAGE 1 CV	Station	Home Cycle Timeline Analog Message Note
LEAK TEST STAGE 2 CV	Station	Home Cycle Timeline Analog Message Note
LEAK TEST INFEED CV	Station	Home Cycle Timeline Analog Message Note
LEAK TESTER	Station	Home Cycle Timeline Analog Message Note

History Display Window

This will take the user to the History Display window. This first window consists of the last 50 Cycles, with an option to look at yesterday's, today's, or a custom date selection option. The last 50 Cycles is the default view.



In the Yesterday, and Today View, clicking on them will allow you to choose an hour of that day to view the data.



The Custom Date, feature we'll open a calendar applet to choose a day. After that you'll have to choose the hour in which to view.

The States can be toggled On or Off. Initially, they are Off. Simply click the Show States switch, and the window will reload with the states above the Cycles.

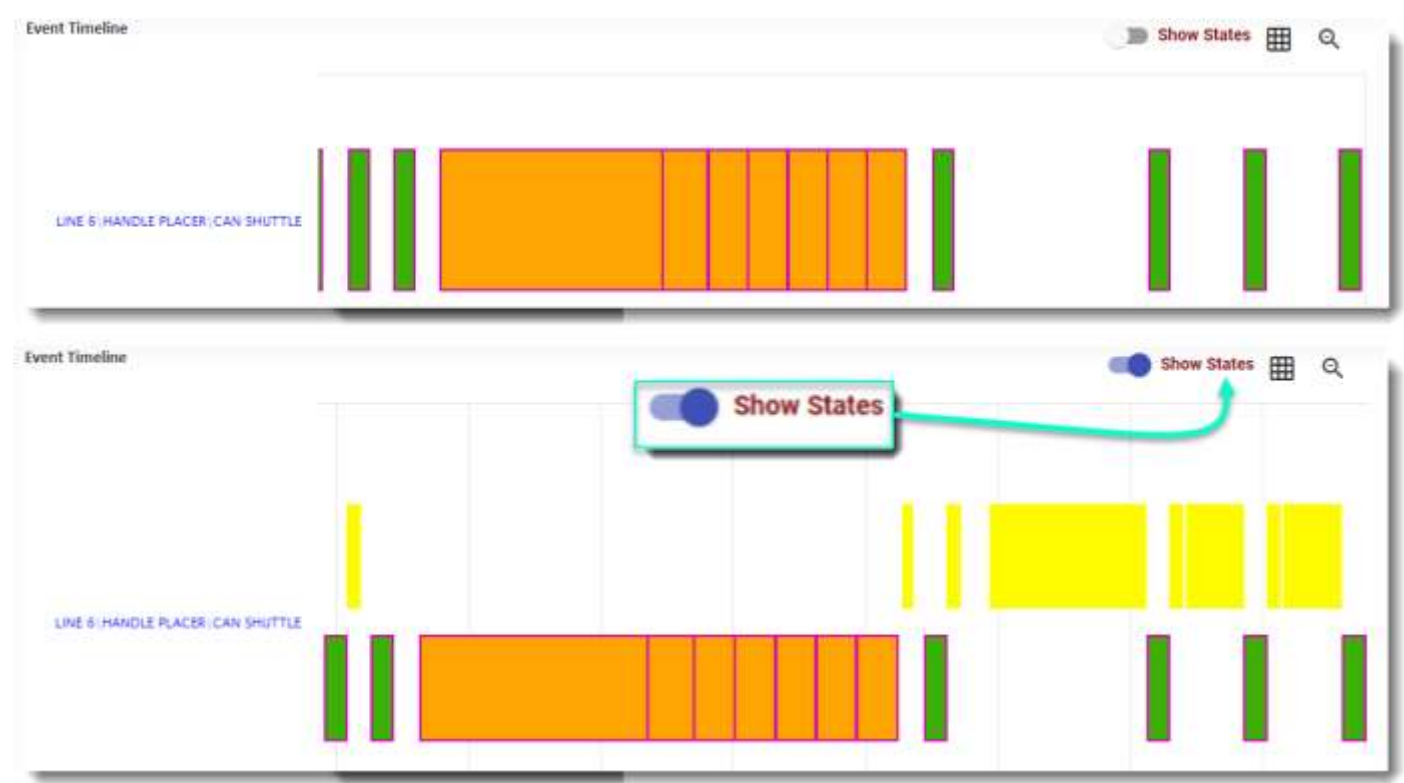


Chart View

The chart View will allow you to look at the last fifty Cycles on a table chart.

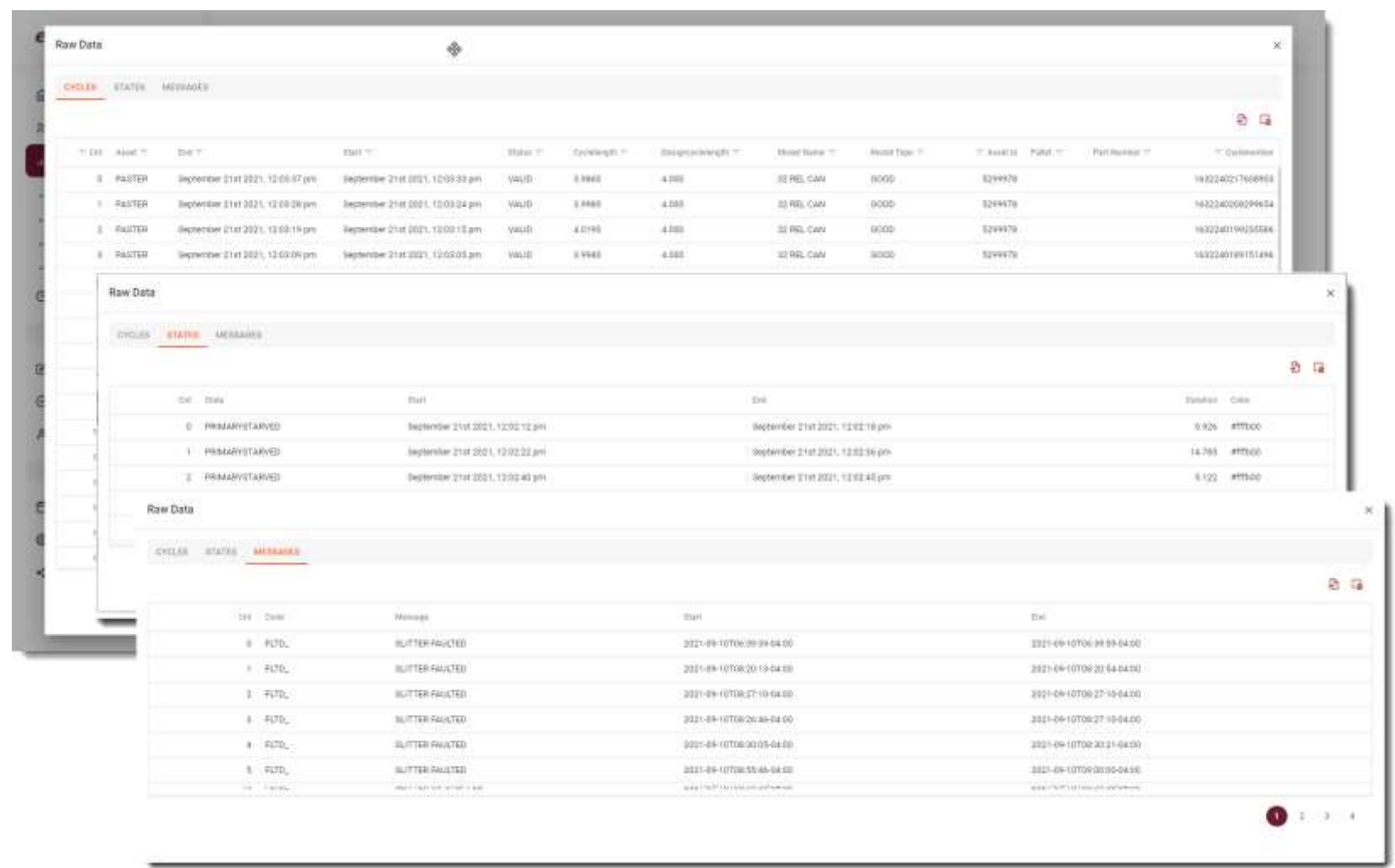
The user can select a cycle in which it will open the event timeline for that cycle selected.

It also has a tab for States and Messages.

The state's tab will show you on a table the last 50 states based upon when they started and ended, with the duration of each state. It also has a color code.

The messages tab will display all the messages of the last fifty Cycles. This shows them as displayed with the Code, the Message, Start time, and the End time.

In the upper right-hand side of the window will be the option to export the cycles to a download folder, and account user. This will allow the user to add or remove the columns that are displayed.



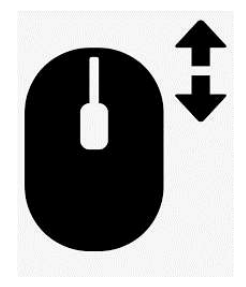
Selecting a Cycle

On the history display panel or the first screen after selection of the timeline link, it will display all the assets within in your selection. If you drill down to an Asset, it will only show that asset. If you drilled onto a station , it would show all the assets within the station.

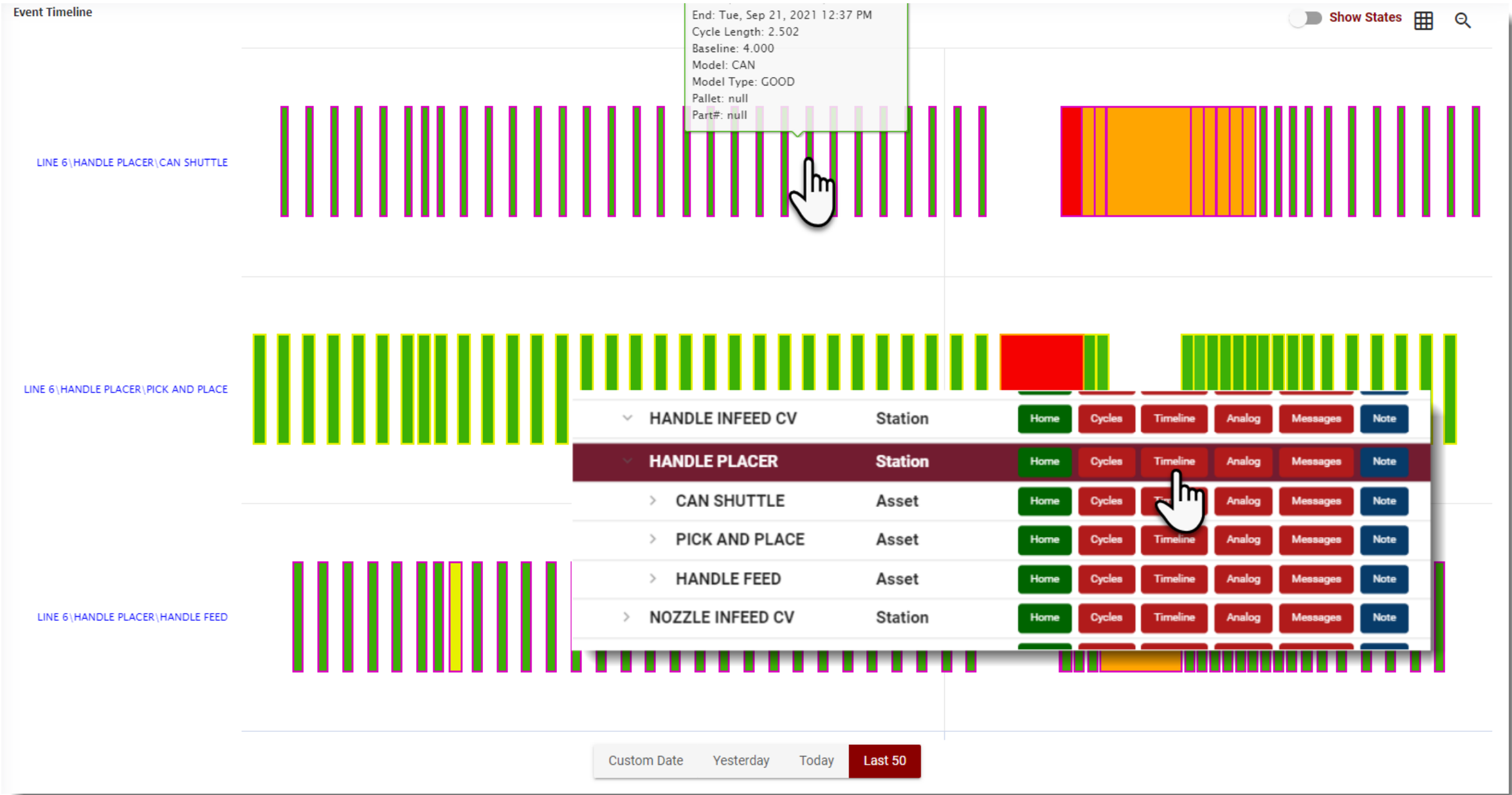
Selecting at the higher level will take more system resources and longer to produce all the assets. The best practice would be to drill down to an asset within the object tree then go from there.



Zoom Feature



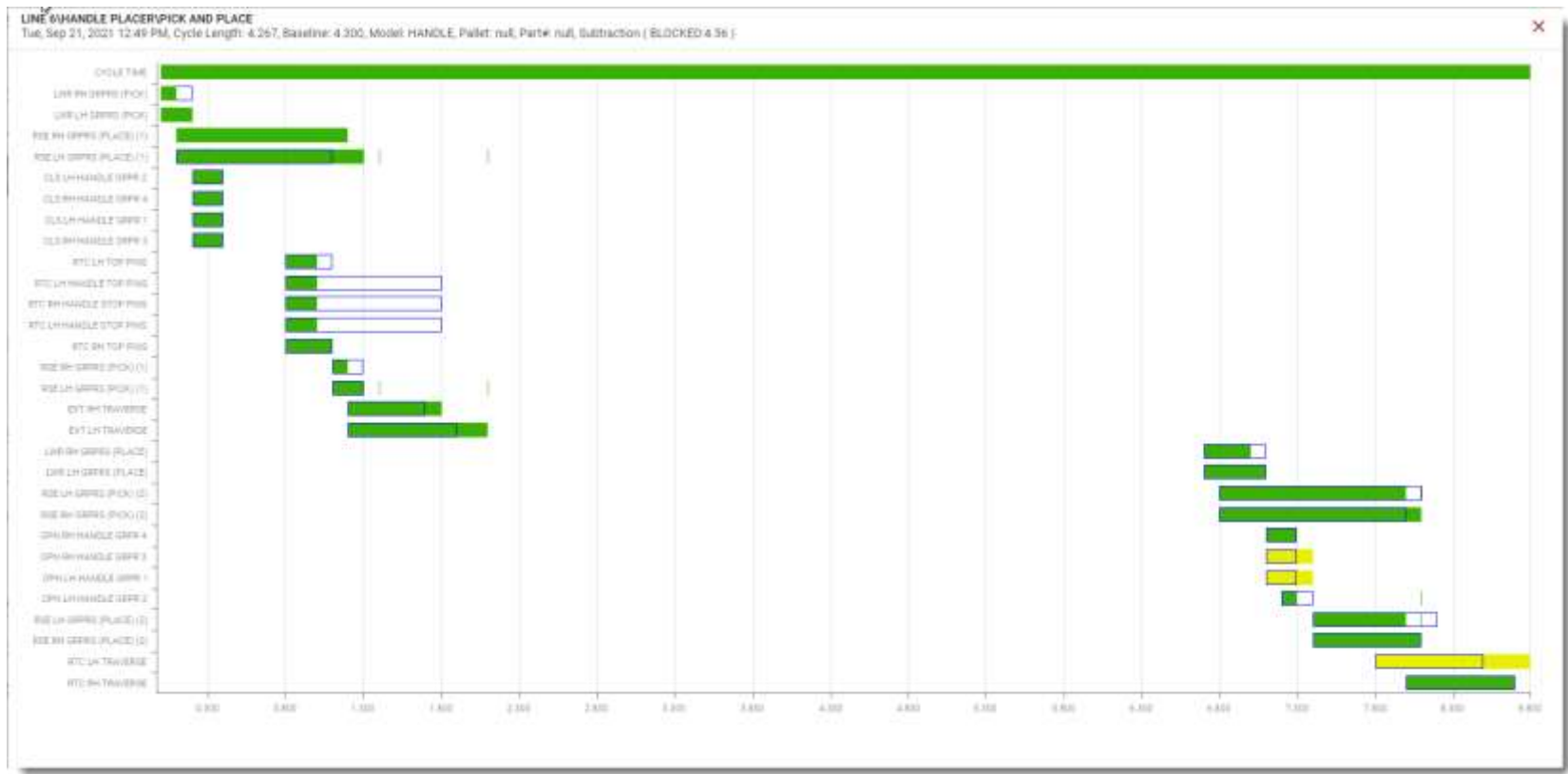
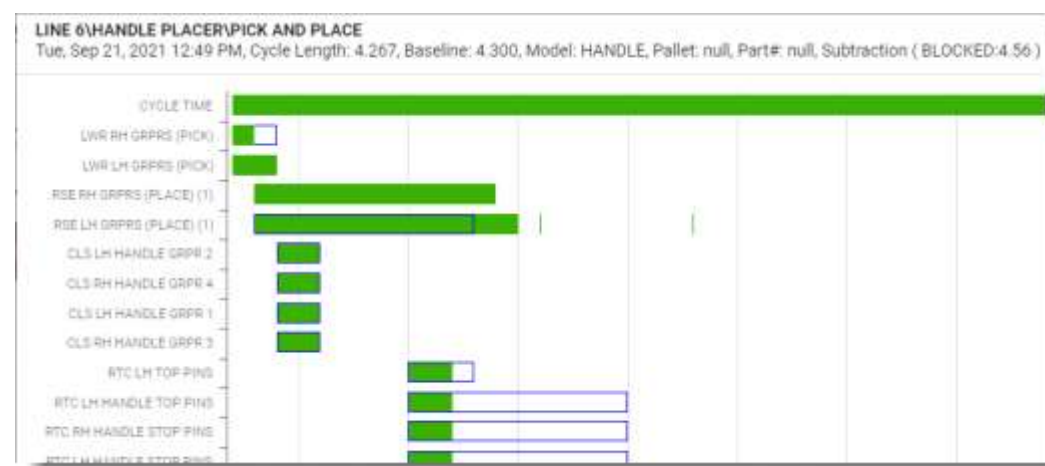
While viewing the cycles in the History Display Window and the Event Timeline, you can zoom in to an area by click and holding, then drag the zoom selection area over your intended cycles or using the mouse scroll feature. The selected area will be highlighted, then Update to a zoomed in view on your selection.



Event Timeline Browser

With your selection on the history display window, the event timeline will now open in a new window.

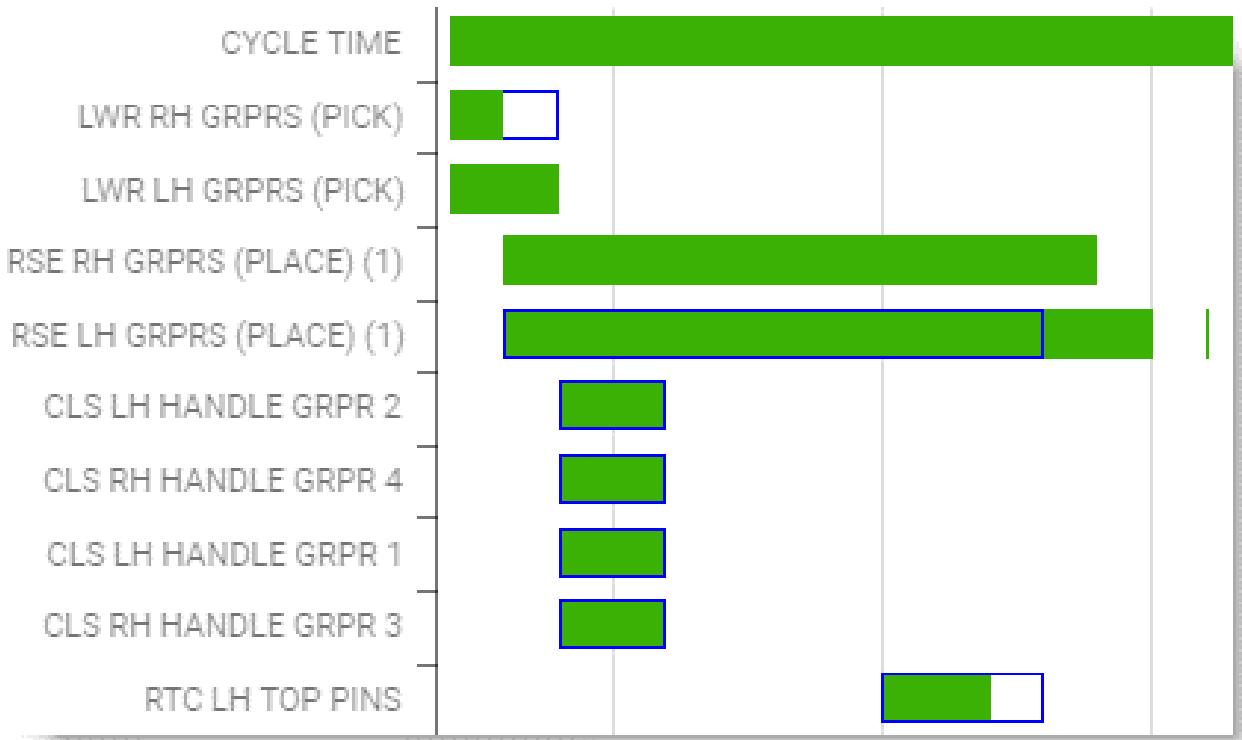
On the upper right-hand side how's the event timeline browser window, will be the object information. This consists of the date and time, as well as the Cycle Length, Baseline, Model, Pallet, Part Number, and any pertinent State information.



Note: The event timeline can only be viewed in sequence mode.

These sequences of motions are laid one on top of the other on a timeline. The object's motion times are color coded to show the status of each motion. The blue line around each motion is the Baseline.

The Baseline is the design time length for each motion.



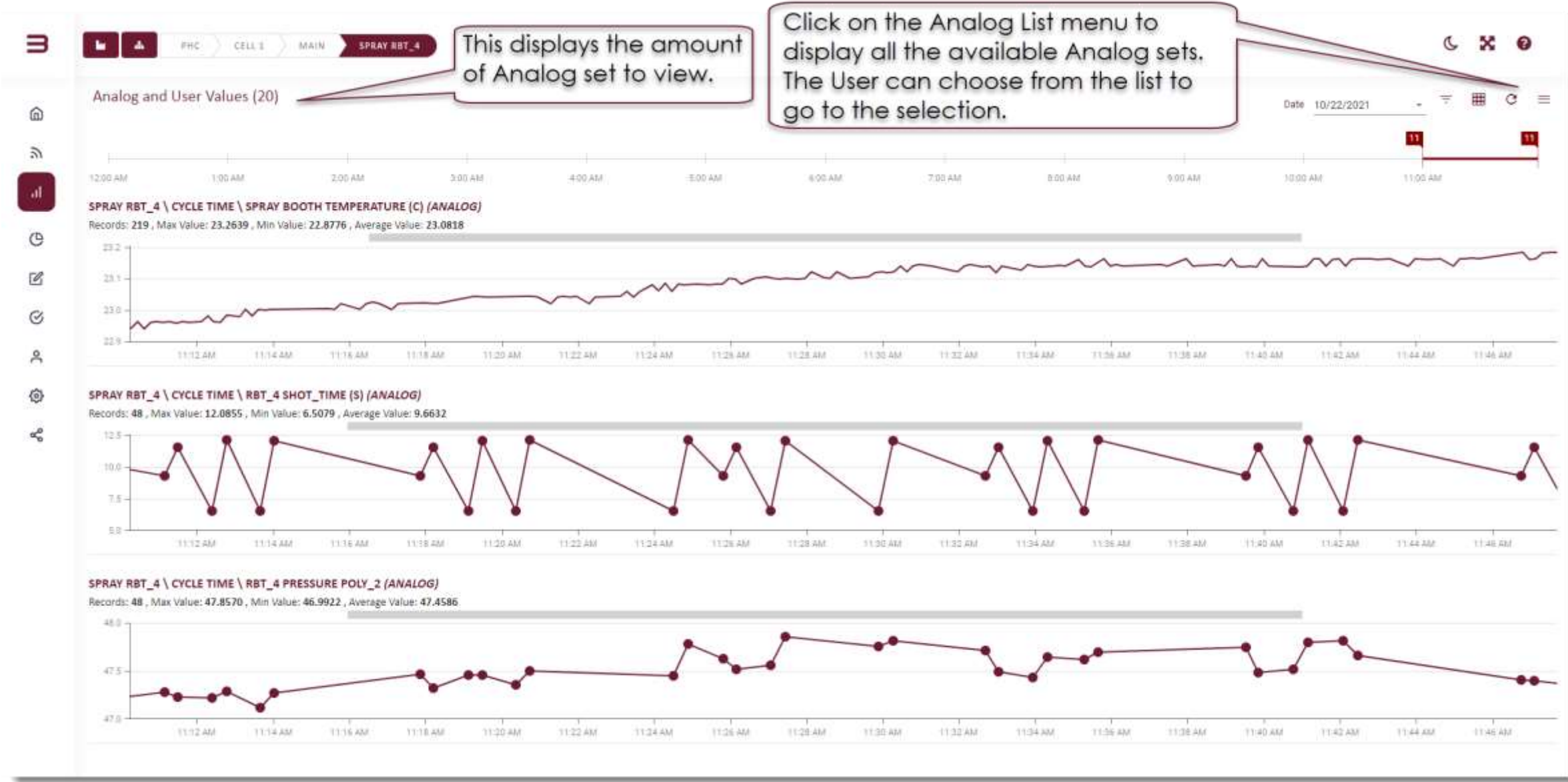
Analog User Data

- Date selection
- Time range tool
- Chart View

To open the AUD, simply hover the mouse over the data browser button.

A sub-menu will appear to the right of the Button. Select the analog – user data tab. This module now will now load.

It will start by showing the time range tool as it is loading. Then below will populate with a chart graph displaying the object selected 1/10 increments and one-second increments.



PHC
CELL 1
MAIN
SPRAY RBT_4

🌙
✖
?

Analog and User Values (20)

Date: 10/22/2021

SPRAY RBT_4 \ CYCLE TIME \ SPRAY BOOTH TEMPERATURE (C) (ANALOG)
 Records: 219, Max Value: 23.2639, Min Value: 22.8776, Average Value: 23.0818

SPRAY RBT_4 \ CYCLE TIME \ RBT_4 SHOT_TIME (S) (ANALOG)
 Records: 48, Max Value: 12.0855, Min Value: 6.5079, Average Value: 9.6632

SPRAY RBT_4 \ CYCLE TIME \ RBT_4 PRESSURE POLY_2 (ANALOG)
 Records: 48, Max Value: 47.8570, Min Value: 46.9922, Average Value: 47.4586

Click on the Analog List menu to display all the available Analog sets. The User can choose from the list to go to the selection.

- SPRAY RBT_4 \ CYCLE TIME \ SPRAY BOOTH TEMPERATURE (C)
- SPRAY RBT_4 \ CYCLE TIME \ RBT_4 SHOT_TIME (S)
- SPRAY RBT_4 \ CYCLE TIME \ RBT_4 PRESSURE POLY_2
- SPRAY RBT_4 \ CYCLE TIME \ RBT_4 SHOT_WT (G)
- SPRAY RBT_4 \ CYCLE TIME \ RBT_4 FLOW POLY_1
- SPRAY RBT_4 \ CYCLE TIME \ RBT_4 FLOW POLY_2
- SPRAY RBT_4 \ CYCLE TIME \ RBT_4 FLOW ISO
- SPRAY RBT_4 \ CYCLE TIME \ RBT_4 PRESSURE ISO
- SPRAY RBT_4 \ CYCLE TIME \ RBT_4 PRESSURE POLY_1
- SPRAY RBT_4 \ CYCLE TIME \ RBT_4 TEMP POLY_1
- SPRAY RBT_4 \ CYCLE TIME \ RBT_4 TEMP POLY_2
- SPRAY RBT_4 \ CYCLE TIME \ RBT_4 MIX RATIO ISO
- SPRAY RBT_4 \ CYCLE TIME \ RBT_4 MIX RATIO POLY
- SPRAY RBT_4 \ CYCLE TIME \ RBT_4 TEMP ISO
- SPRAY RBT_4 \ CYCLE TIME \ SPRAY BOOTH HUMIDITY (%)
- SPRAY RBT_4 \ CYCLE TIME \ RBT_4 PROG_NUM
- SPRAY RBT_4 \ CYCLE TIME \ RBT_4 MIXING HEAD
- SPRAY RBT_4 \ CYCLE TIME \ RBT_4 COUNTER_SHOT
- SPRAY RBT_4 \ CYCLE TIME \ RBT_4 PAST_SHOT_NUM
- SPRAY RBT_4 \ CYCLE TIME \ RBT_4 PROT_NUM

Date selection

The date selection applet will allow you to select the previous day to view. Simply click the pull-down tab next to the date. Below a calendar will appear with the current date highlighted. To select another day simply just click on another date on the calendar. Use the fore-and-aft month selector to go back several months if needed. Once the Box selected simply select the date the View will update. The hour range of this tool will spend 24 hours. However, on the current day, it will only show the hours of availability.



The screenshot shows the EPVS Data Browser interface. The top navigation bar includes 'PHC', 'CELL 1', 'MAIN', and 'SPRAY RBT_4'. The left sidebar contains navigation options: Home, Live, Data Browser (selected), Cycle Browser, Event Timeline, Messages, Analog, Dashboard, Notes, Task, Profile, Schedule, Admin, and Site. The main content area displays four time-series graphs:

- Analog and User Values (181)**: Shows a signal fluctuating between 1.2K and 1.4K from 9:00 AM to 11:10 AM.
- DECLINE CV \ DECLINE CNV DRV \ DECLINE CNV DRV DC VOLT (USER)**: Shows voltage values between 630 and 645. Records: 1421, Max Value: 641.0000, Min Value: 632.0000, Average Value: 636.7002.
- DECLINE CV \ DECLINE CNV DRV \ DECLINE CNV DRV TEMP (USER)**: Shows temperature values between 43 and 47. Records: 257, Max Value: 46.0000, Min Value: 44.0000, Average Value: 45.4825.
- DECLINE CV \ DECLINE CNV DRV \ DECLINE CNV DRV CFGD FREQ (USER)**: Shows frequency values around 1440. Records: 180, Max Value: 1440.0000, Min Value: 1440.0000, Average Value: 1440.0000.

A date selection calendar is overlaid on the graphs, showing 'September 2021' with the 21st highlighted. The calendar includes 'TODAY', 'OK', and 'CANCEL' buttons.

Time range tool

Now that your day is selected, but users can utilize the time range tool. This tool will allow the user to select an hour to view or more if needed. The tool is currently set at 1 hour. To shift the hours simply grab the bar between the two flags, click and hold, and slide to the hour that you would like to view. Release it, and the charts below will update. To increase the time span simply click and hold one of the flags and slide it to the number of hours you would like to view in one shot.

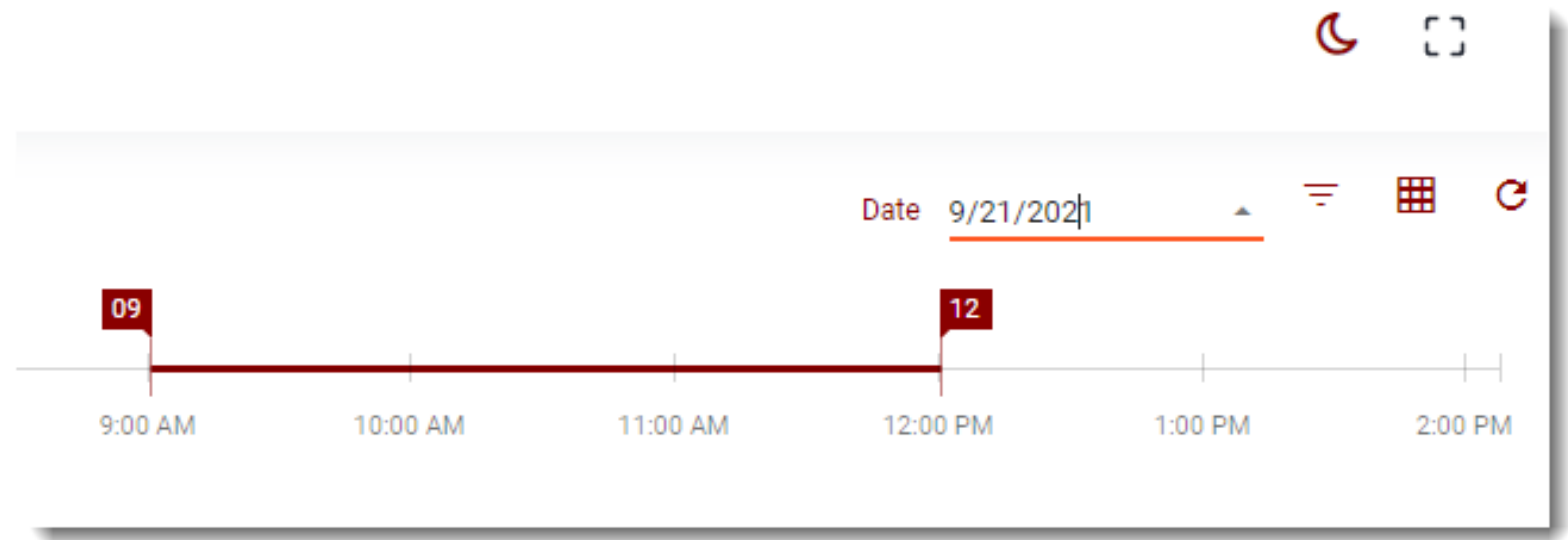


Chart View

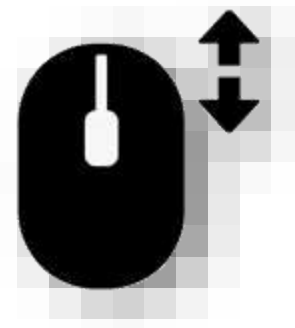
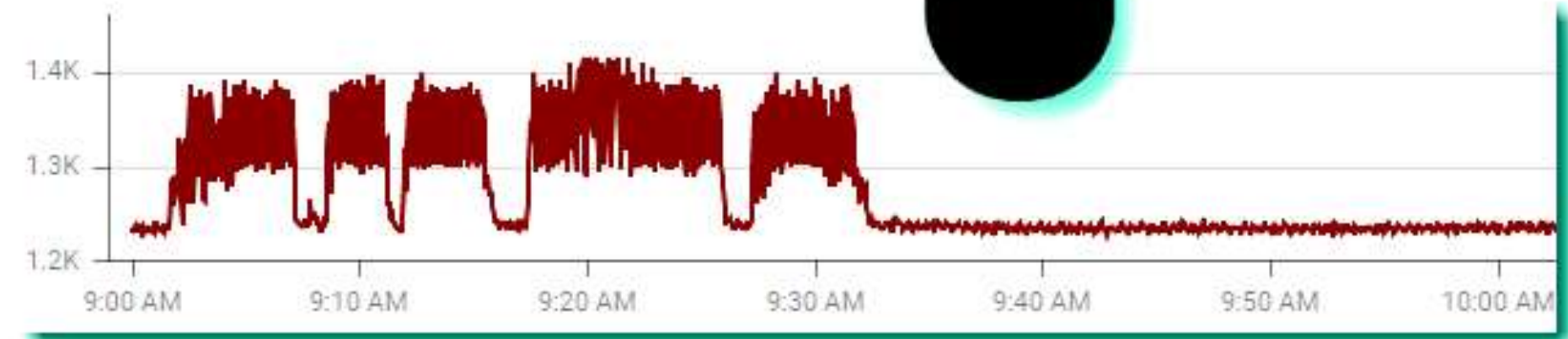
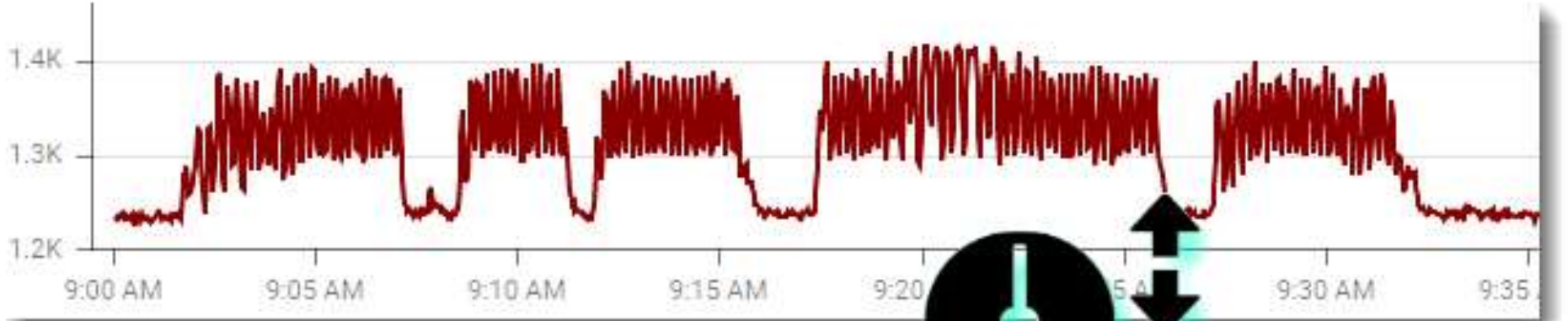
The chart View what displays the object a line chart. It will display the max value, the middle minimum value, and the average value add a line chart. The user can hover over the data points to view the time and the value of that moment. At the current few it will just play in one-second increments.

Analog and User Values (181)

Asset	Group	Tag	DI	Type	Value
TABLE TOP PALLETIZER CV	TABLE TOP CV DRV	DRV TEMP	2021-09-21T15:45:24.164Z	USER	33
TABLE TOP PALLETIZER CV	TABLE TOP CV DRV	DRV OUT DC BUS VOLT	2021-09-21T15:45:24.164Z	USER	651
TABLE TOP PALLETIZER CV	TABLE TOP CV DRV	DRV CMD FREQ	2021-09-21T15:45:24.164Z	USER	3800
TABLE TOP PALLETIZER CV	TABLE TOP CV DRV	DRV TEMP	2021-09-21T15:45:26.173Z	USER	33
TABLE TOP PALLETIZER CV	TABLE TOP CV DRV	DRV OUT DC BUS VOLT	2021-09-21T15:45:26.173Z	USER	651
TABLE TOP PALLETIZER CV	TABLE TOP CV DRV	DRV CMD FREQ	2021-09-21T15:45:26.173Z	USER	3800
TABLE TOP PALLETIZER CV	TABLE TOP CV DRV	DRV TEMP	2021-09-21T15:45:28.195Z	USER	33
TABLE TOP PALLETIZER CV	TABLE TOP CV DRV	DRV OUT DC BUS VOLT	2021-09-21T15:45:28.195Z	USER	651
TABLE TOP PALLETIZER CV	TABLE TOP CV DRV	DRV CMD FREQ	2021-09-21T15:45:28.195Z	USER	3800
TABLE TOP PALLETIZER CV	TABLE TOP CV DRV	DRV TEMP	2021-09-21T15:45:30.213Z	USER	33
TABLE TOP PALLETIZER CV	TABLE TOP CV DRV	DRV OUT DC BUS VOLT	2021-09-21T15:45:30.213Z	USER	651
TABLE TOP PALLETIZER CV	TABLE TOP CV DRV	DRV CMD FREQ	2021-09-21T15:45:30.213Z	USER	3800
TABLE TOP PALLETIZER CV	TABLE TOP CV DRV	DRV TEMP	2021-09-21T15:45:32.225Z	USER	33

An additional feature to this chart is the scroll feature. The user can hover over the graph and use the scroll on your mouse to zoom into a specific area. This chart will display in one-unit intervals and 110th intervals. The scroll feature can be used on both charts to zoom in or zoom out. The scaling will also adjust when zooming in or zooming out.

While viewing the Analog data, you can zoom in and out by using the mouse scroll feature.



Messages (Data Browser 4.2)

- [Calendar selection](#)
- [Sorting and Grouping](#)
- [Column search feature](#)
- [IP 4.2 Messages Bulk Download](#)

Message History (Records: 3124) Refresh Choose a date Sep 21, 2021 - Sep 21, 2021

Drag a column header here to group by that column

Code	Message	Datetime	SVC	Area Name	Line Name	Station Name	Article Name	Description	Data
STRVD	TESTER PRIMARY STARVED	9/21/2021, 12:01 AM	Mausen-SHRD	NASP Memphis Area	LINE 5	LEAK TESTER	TESTER	Starved	47.09700012207021
STRVD	TESTER PRIMARY STARVED	9/21/2021, 12:02 AM	Mausen-SHRD	NASP Memphis Area	LINE 5	LEAK TESTER	TESTER	Starved	5.2319998741499
STRVD	TESTER PRIMARY STARVED	9/21/2021, 12:02 AM	Mausen-SHRD	NASP Memphis Area	LINE 5	LEAK TESTER	TESTER	Starved	0.638000114440918
STRVD	TESTER PRIMARY STARVED	9/21/2021, 12:03 AM	Mausen-SHRD	NASP Memphis Area	LINE 5	LEAK TESTER	TESTER	Starved	4.07399981744385
STRVD	TESTER PRIMARY STARVED	9/21/2021, 12:03 AM	Mausen-SHRD	NASP Memphis Area	LINE 5	LEAK TESTER	TESTER	Starved	38.78499984741211
STRVD	TESTER PRIMARY STARVED	9/21/2021, 12:05 AM	Mausen-SHRD	NASP Memphis Area	LINE 5	LEAK TESTER	TESTER	Starved	6.907000064849650
STRVD	TESTER PRIMARY STARVED	9/21/2021, 12:08 AM	Mausen-SHRD	NASP Memphis Area	LINE 5	LEAK TESTER	TESTER	Starved	58.5880012312207
STRVD	TESTER PRIMARY STARVED	9/21/2021, 12:09 AM	Mausen-SHRD	NASP Memphis Area	LINE 5	LEAK TESTER	TESTER	Starved	1.565000057220459
STRVD	TESTER PRIMARY STARVED	9/21/2021, 12:10 AM	Mausen-SHRD	NASP Memphis Area	LINE 5	LEAK TESTER	TESTER	Starved	1.968000054395436
STRVD	TESTER PRIMARY STARVED	9/21/2021, 12:10 AM	Mausen-SHRD	NASP Memphis Area	LINE 5	LEAK TESTER	TESTER	Starved	1.968000054395436

Create Filter

20 50 100

Calendar selection

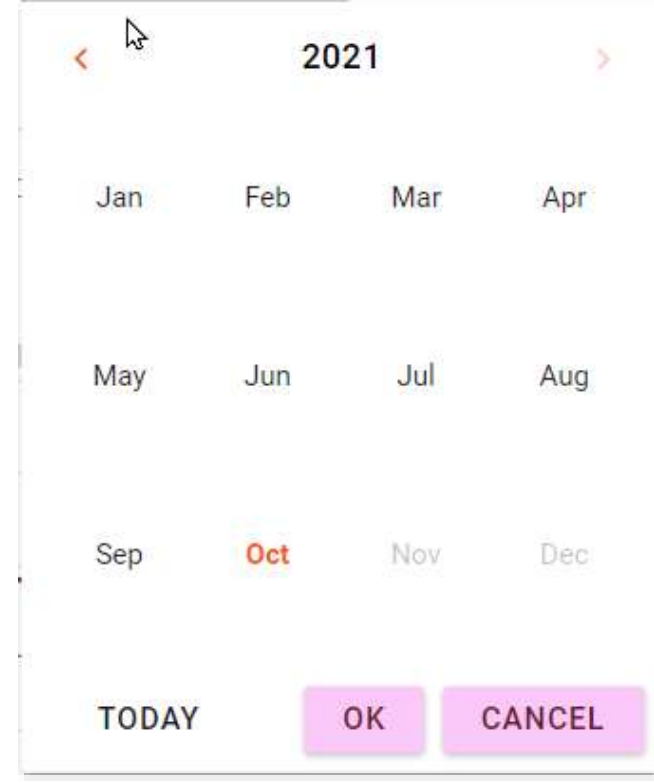
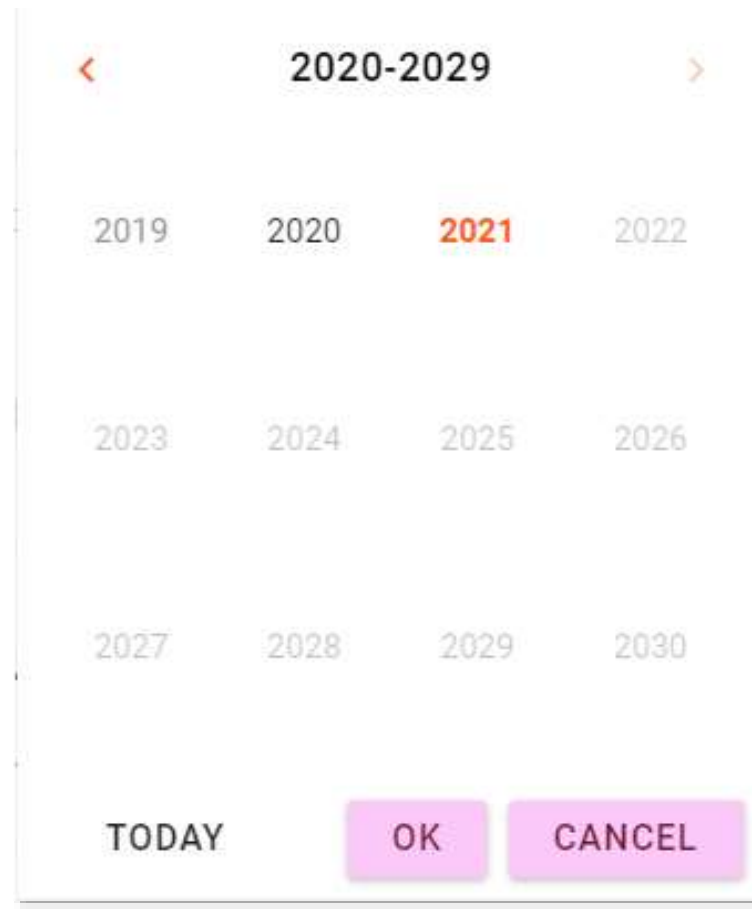
To select a different date range simply select the choose a date Link in the upper right-hand corner of the messages page. Below the link, it will show the current selection. Clicking on the date will open a selection calendar.

This selection calendar is comprised of 2-month selection palette. The month on the left will represent the start date. Making the selection here will select the starting day you would like to view. The calendar to the right will be the end date. After your selection, then click the submit button. The message page will now refresh with your selected date range.

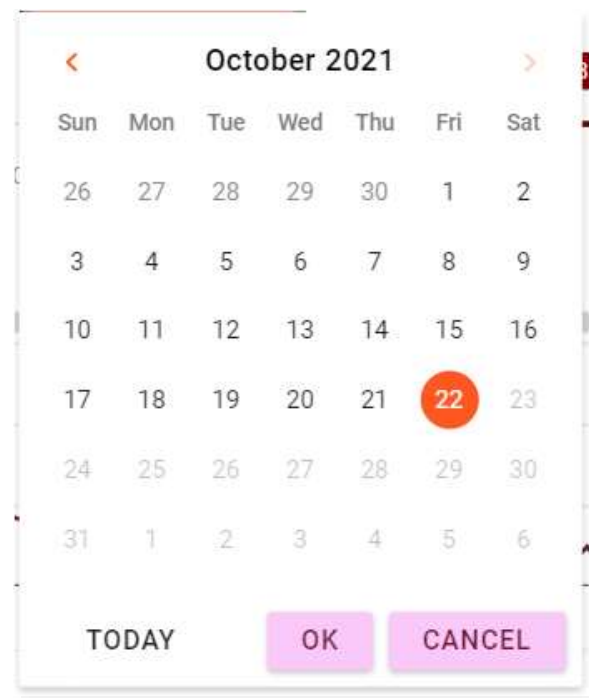
Above each month calendar is the actual month, and a for and after selection tabs. Use selection tabs to move forward or backward, month by month, to your selection. If you wish to select a different year, simply click on the month and year link. This will open a year menu, which will allow you to select a different year.

After you select a year, the calendar will refresh with the months listed on a table. Select the month you wish to see by clicking on it.

The calendar will refresh to the year and then select the month Now just to let the day to set your start date. Perform the same procedure to set up your end date.



The date and the browser will refresh and show the selection made.

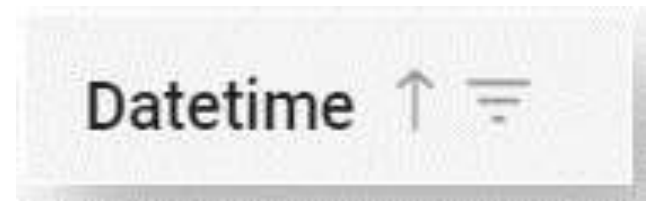


The date and the browser will refresh and show the selection made.

Date 10/22/2021

Sorting & Grouping

Each column has several features available to use to sort the data. The user can select the Sort icon which will open a menu that will allow you to select all or select individual or multiple selections based upon the column you are viewing. Once you made your selection select the okay button and the browser will refresh with your selection.



Each column can also be sorted by groups, ascending, or descending. Simply click on the title of any column and an up or down arrow will appear next to the title. Click on it to sort the column in an ascending, or descending command.

You can also grab a column and drag it to the upper left side of the table two group by that column. Simply click hold and drag to the upper left-hand side. You can select multiple columns to filter and sort what you need.

Column search feature

Below every title plate of each column does a search feature. Clicking on it will open a menu that will allow you to make your search based upon certain criteria. Criteria, such as Contains, Does not contain, Starts with, Ends with, Equals, Does not equal, and a Reset.

Clicking on any of them will open a dialogue editing box in place for the user to enter the information needed to search.

Message History (Records: 3124)

Drag a column header here to group by that column

Search:

Refresh Choose a date: Sep 21, 2021 - Sep 21, 2021

Code	Message	Datetime	Shift	Area Name	Line Name	Station Name	Article Name	Description	Delta
STRVD	TESTER PRIMARY STARVED	9/21/2021, 12:01 AM	Shift3	Area	LINE 5	LEAK TESTER	TESTER	Starved	47.09700012207031
STRVD	TESTER PRIMARY STARVED	9/21/2021, 12:02 AM	Shift3	Area	LINE 5	LEAK TESTER	TESTER	Starved	5.23199967411499
STRVD	TESTER PRIMARY STARVED	9/21/2021, 12:02 AM	Shift3	Area	LINE 5	LEAK TESTER	TESTER	Starved	0.6380000114440918
STRVD	TESTER PRIMARY STARVED	9/21/2021, 12:03 AM	Shift3	Area	LINE 5	LEAK TESTER	TESTER	Starved	4.073999881744385
STRVD	TESTER PRIMARY STARVED	9/21/2021, 12:03 AM	Shift3	Area	LINE 5	LEAK TESTER	TESTER	Starved	38.78499984741211
STRVD	TESTER PRIMARY STARVED	9/21/2021, 12:05 AM	Shift3	Area	LINE 5	LEAK TESTER	TESTER	Starved	6.9070000648498535
STRVD	TESTER PRIMARY STARVED	9/21/2021, 12:08 AM	Shift3	Area	LINE 5	LEAK TESTER	TESTER	Starved	58.5880012512207
STRVD	TESTER PRIMARY STARVED	9/21/2021, 12:09 AM	Shift3	Area	LINE 5	LEAK TESTER	TESTER	Starved	1.565000057220459
STRVD	TESTER PRIMARY STARVED	9/21/2021, 12:10 AM	Shift3	Area	LINE 5	LEAK TESTER	TESTER	Starved	1.968000054359436
STRVD	TESTER PRIMARY STARVED	9/21/2021, 12:10 AM	Shift3	Area	LINE 5	LEAK TESTER	TESTER	Starved	1.569000005722046

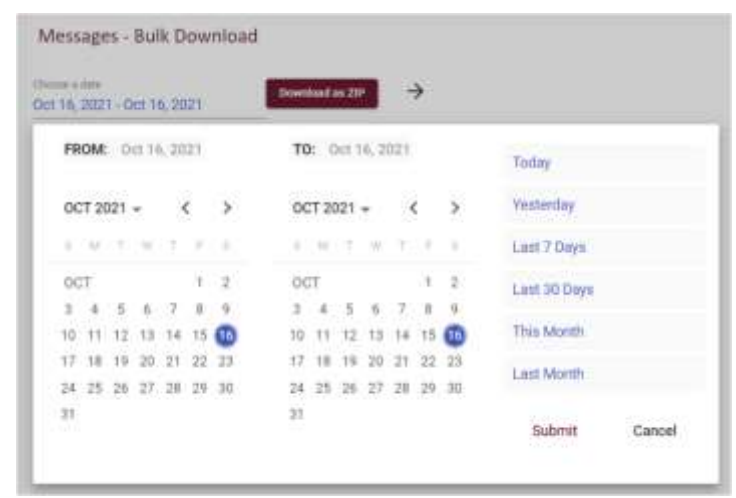
Create Filter

Page 1 of 313 (3124 items) 1 2 3 4 5 ... 313

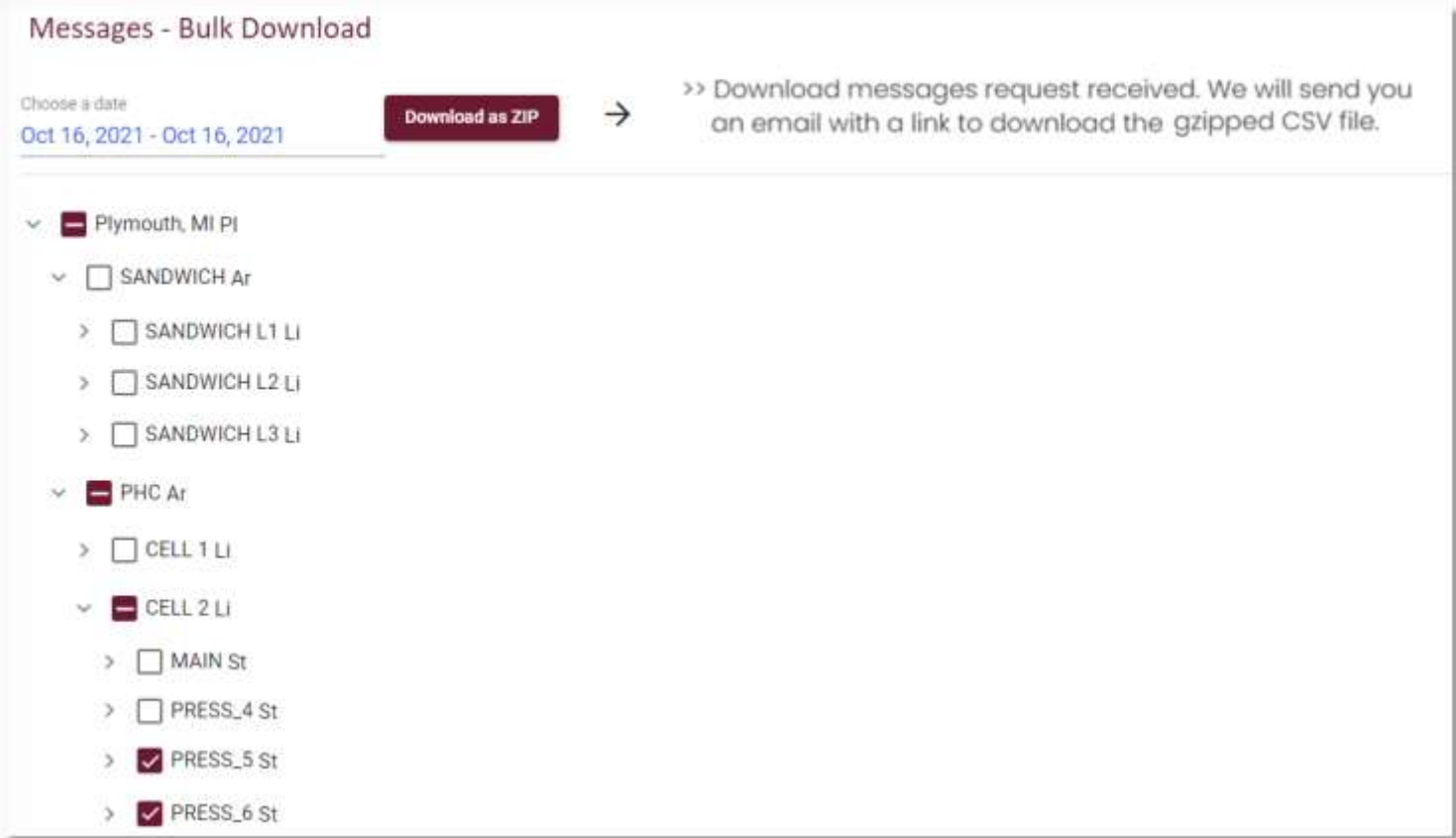
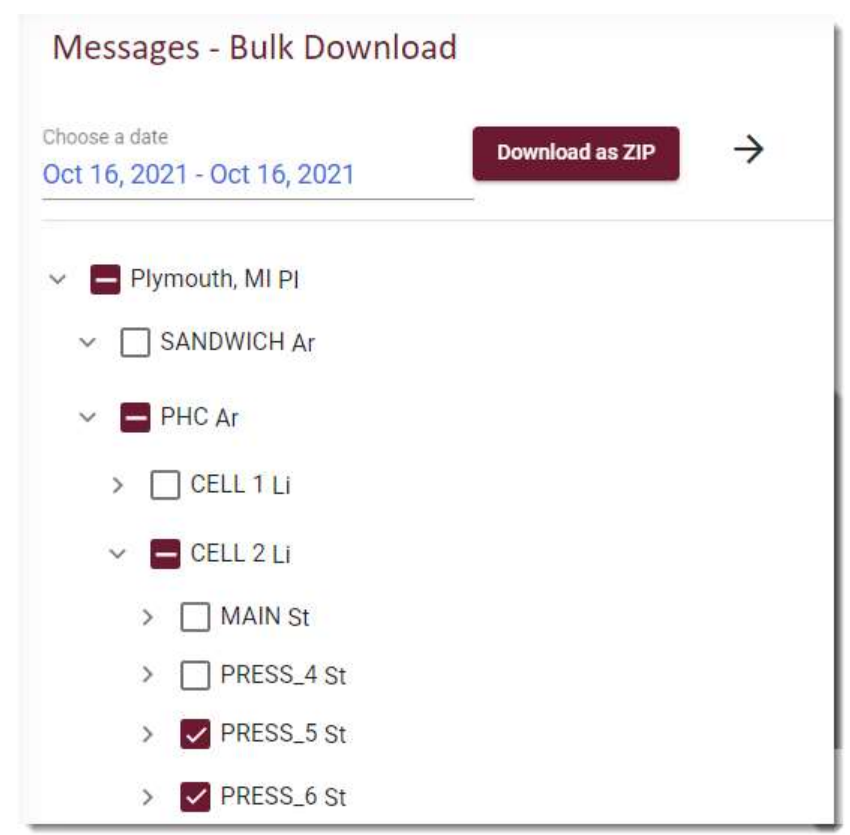
IP 4.2 Messages Bulk Download

Start by selecting a date range you would like to include in your Bulk Download.

Use the calendar applet to make your selections.



Drill down to the objects you would like to include.



Click the Download as ZIP, and it will download a Zip file to your email.





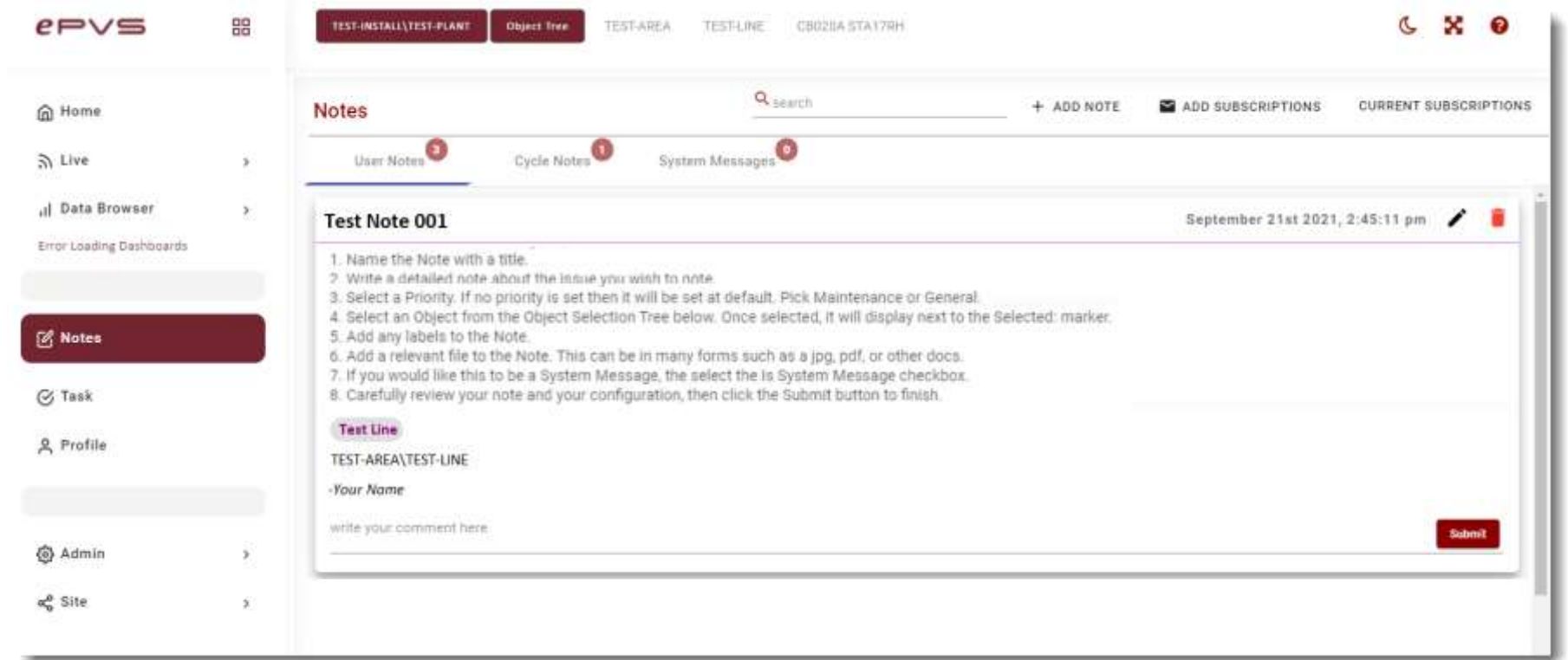
Notes

- [Adding a Note](#)
- [Add Subscriptions](#)
- [Current Subscription](#)

The notes section consists of an area where the user can put a note in the system at a certain object level. There is also an option to add notes in the cycle browser.

The notes section has three separate tabs for use your notes, cycle notes, and system. System notes are like the regular user know it's except for the fact that when selected it will display across the whole system, not just at a certain level.

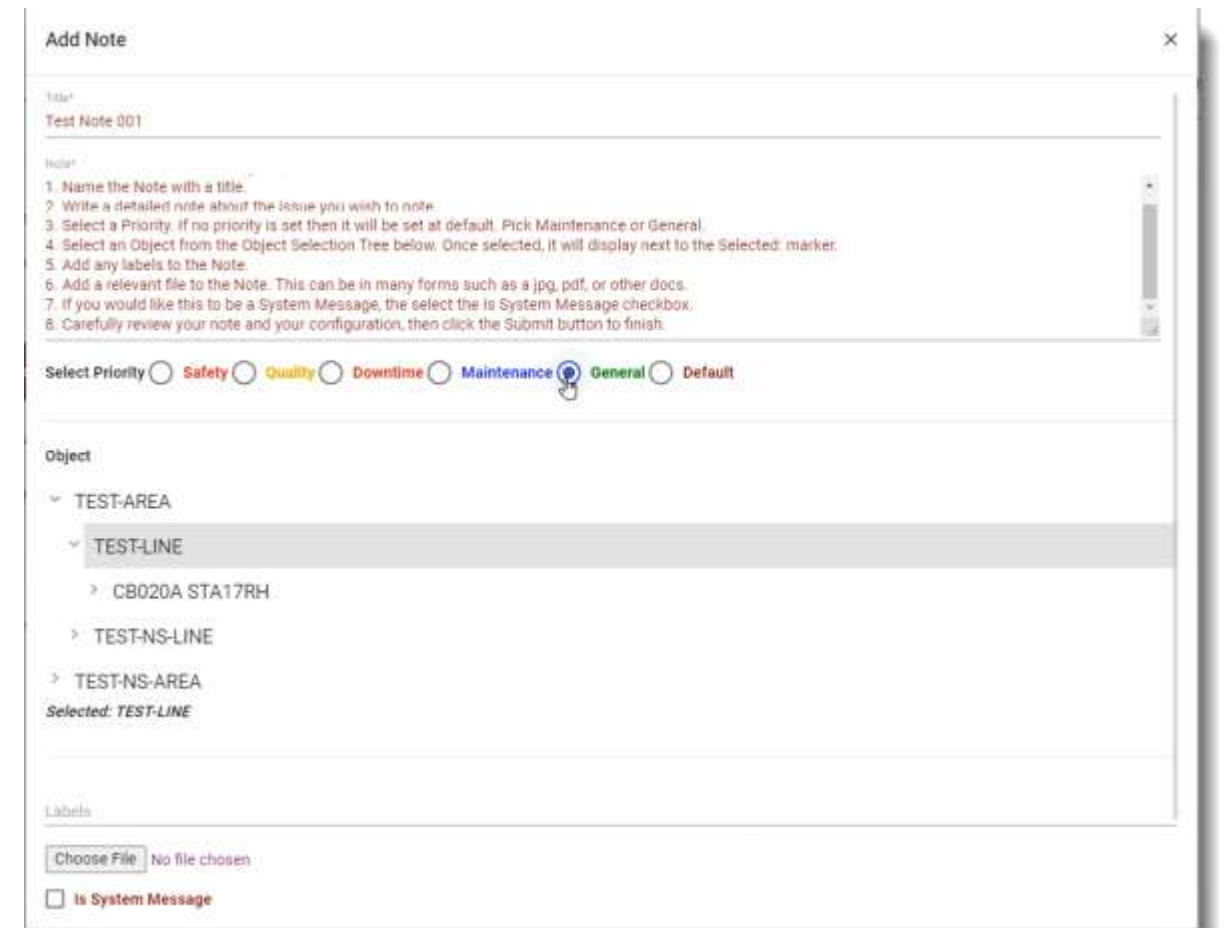
Each note can be edited to correct or add comments to, as well as being deleted.



Adding a Note

To add a note simply click the add note button with a **+** sign to the left. This will open the **+ Add Note** editing window.

- Name the note with the Title.
- Write a detailed note about the issues you wish to convey.
- Select a Priority. If no priority is set, then it will be set at default.
- Select an object from the Object Selection Tree. Once selected, it will display your selection below.
- Add any Labels to the note.
- Add any relevant files to the note. This can be in many forms such as, jpg, PDF, or other various document formats.
- If you would like this to be a System message, then click the Is System Message check box. By doing this, means that this note will appear at every level selected.
- Carefully review your note and your configuration, then click the Submit button to finish.
- To see a demonstration, [click here to view the Adding a Note](#) demo.



Test Note 001

September 21st 2021, 2:45:11 pm

1. Name the Note with a title.
2. Write a detailed note about the issue you wish to note.
3. Select a Priority. If no priority is set then it will be set at default. Pick Maintenance or General.
4. Select an Object from the Object Selection Tree below. Once selected, it will display next to the Selected: marker.
5. Add any labels to the Note.
6. Add a relevant file to the Note. This can be in many forms such as a jpg, pdf, or other docs.
7. If you would like this to be a System Message, the select the Is System Message checkbox.
8. Carefully review your note and your configuration, then click the Submit button to finish.

Test Line

TEST-AREA\TEST-LINE

-Your Name

write your comment here



A user can add to the Note by clicking on the "Write your comment here", then add your comment, then Submit.

Submit

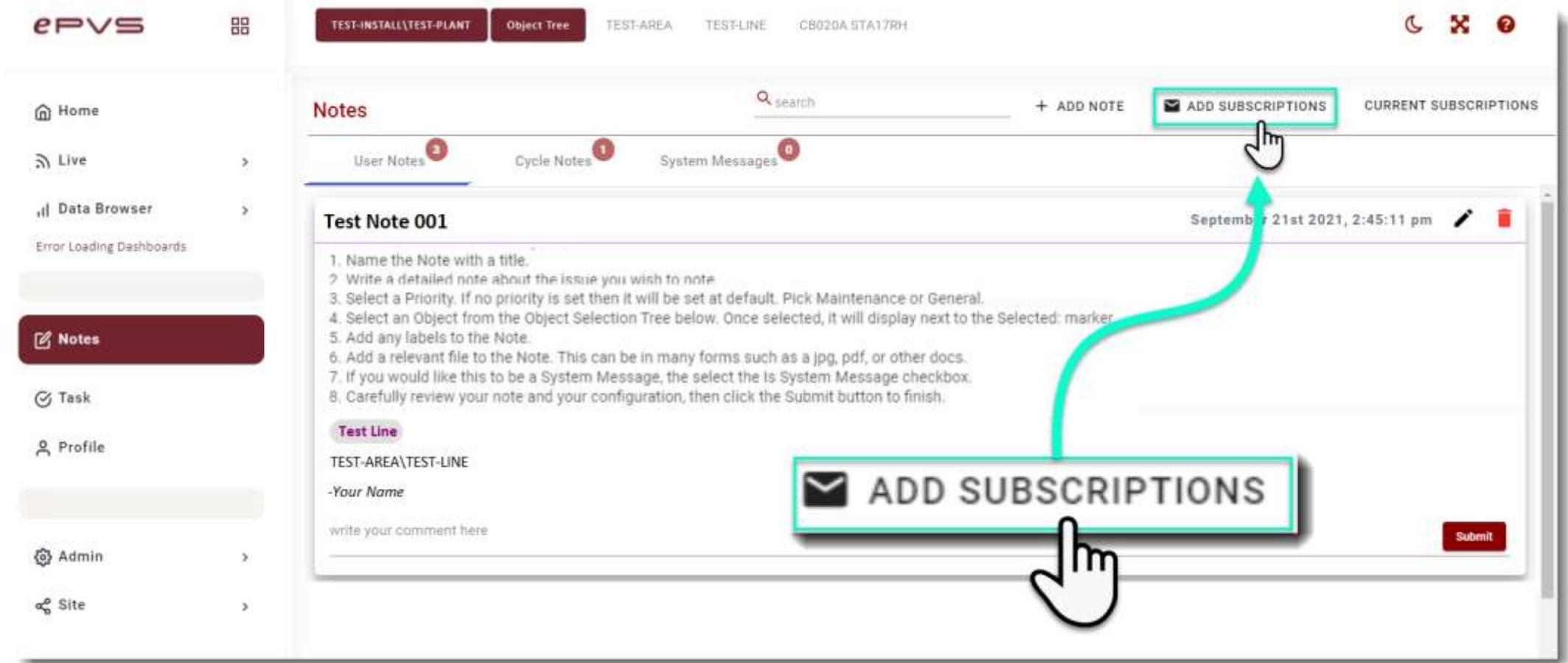
If needed, a user can add a comment to the note. Just click on the **"Write your comment here"** area and you can input your comment as needed.

Add Subscriptions

The users can subscribe to the notes section. By doing this they can have the currently selected notes sent to them by day and time. Simply click on the add subscriptions link. This will open the subscription editor.

Just follow along and add what is needed to complete your subscription. Follow the steps below:

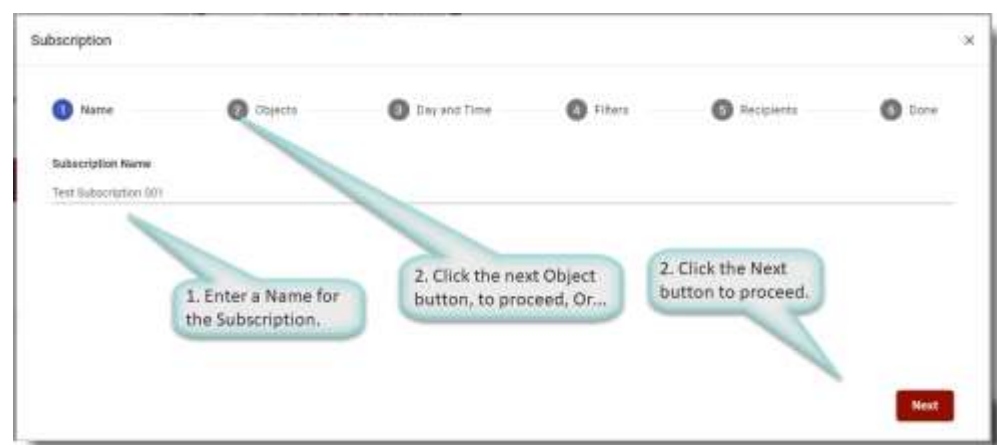
1. Enter a name for the subscription.
2. Select an object from the object tree.
3. Select the day and the time you would like to receive the subscription of the notes.
4. Select the priority of the note.
5. Enter an email of the recipients. You can enter several recipients, however, ensure you enter one email per line.
6. Review your input information, and then use the back button, to go back and make any corrections. When completed click the done button or the submit button.
7. [ePVS 4.2 Notes Subscriptions.mp4](#)



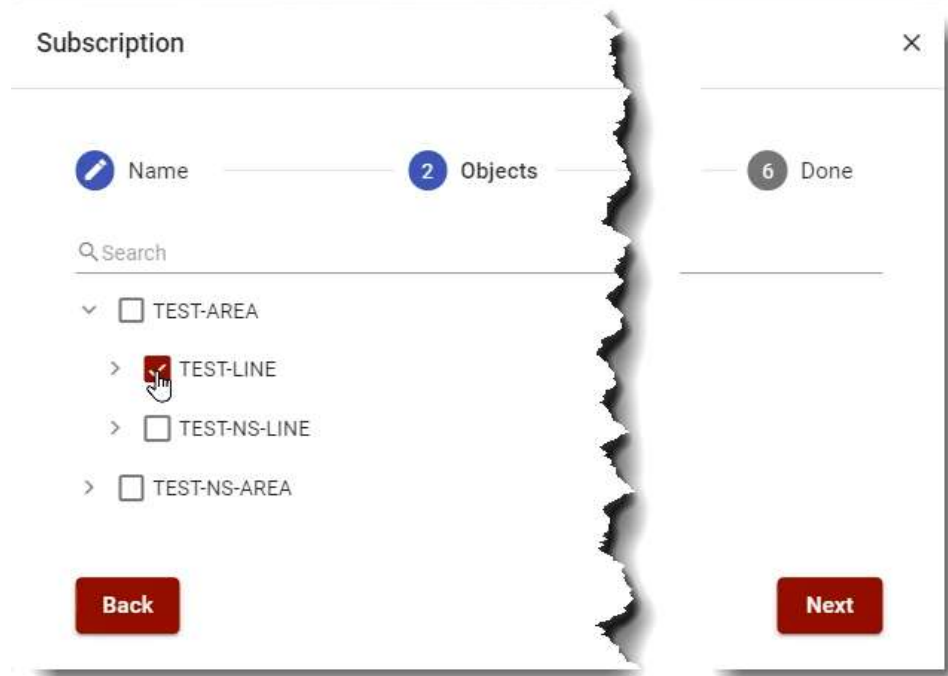
Notes Subscriptions



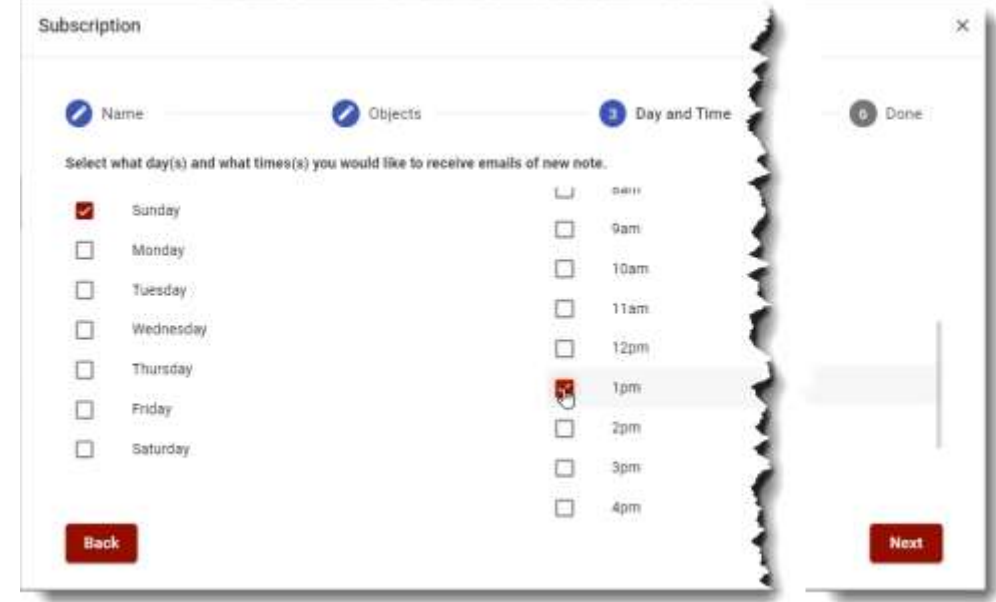
Enter a name for the subscription.



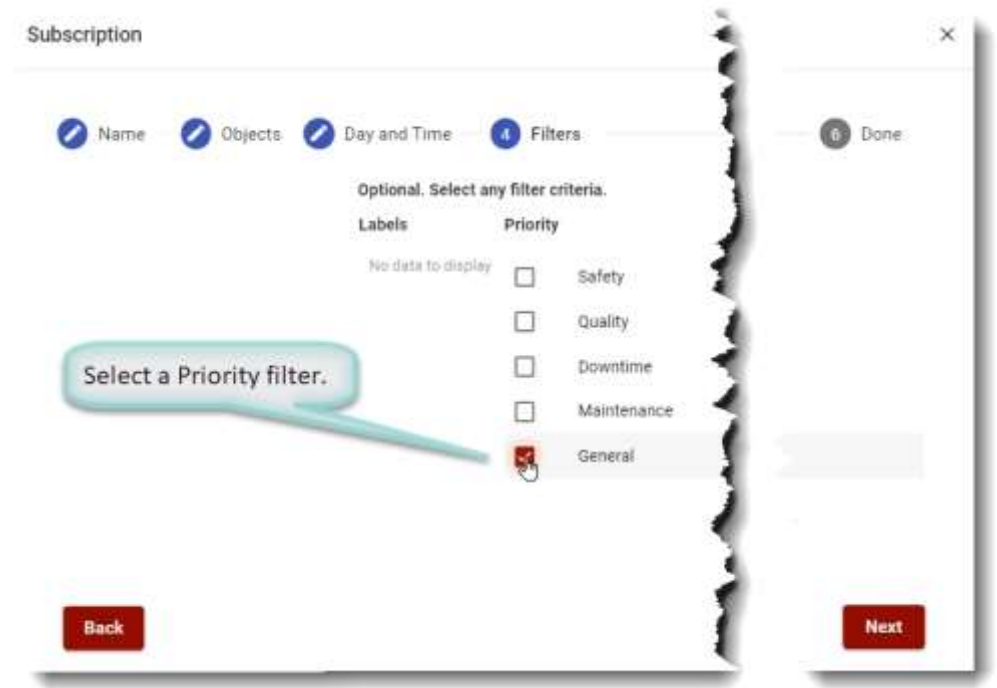
Select an object from the object tree.



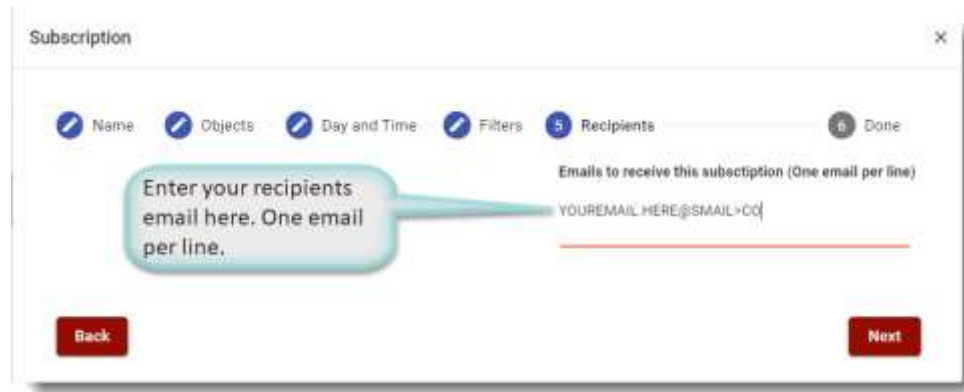
Select the day and the time you would like to receive the subscription of the notes.



Select the priority of the note.



Enter an email of the recipients. You can enter several recipients, however, ensure you enter one email per line.

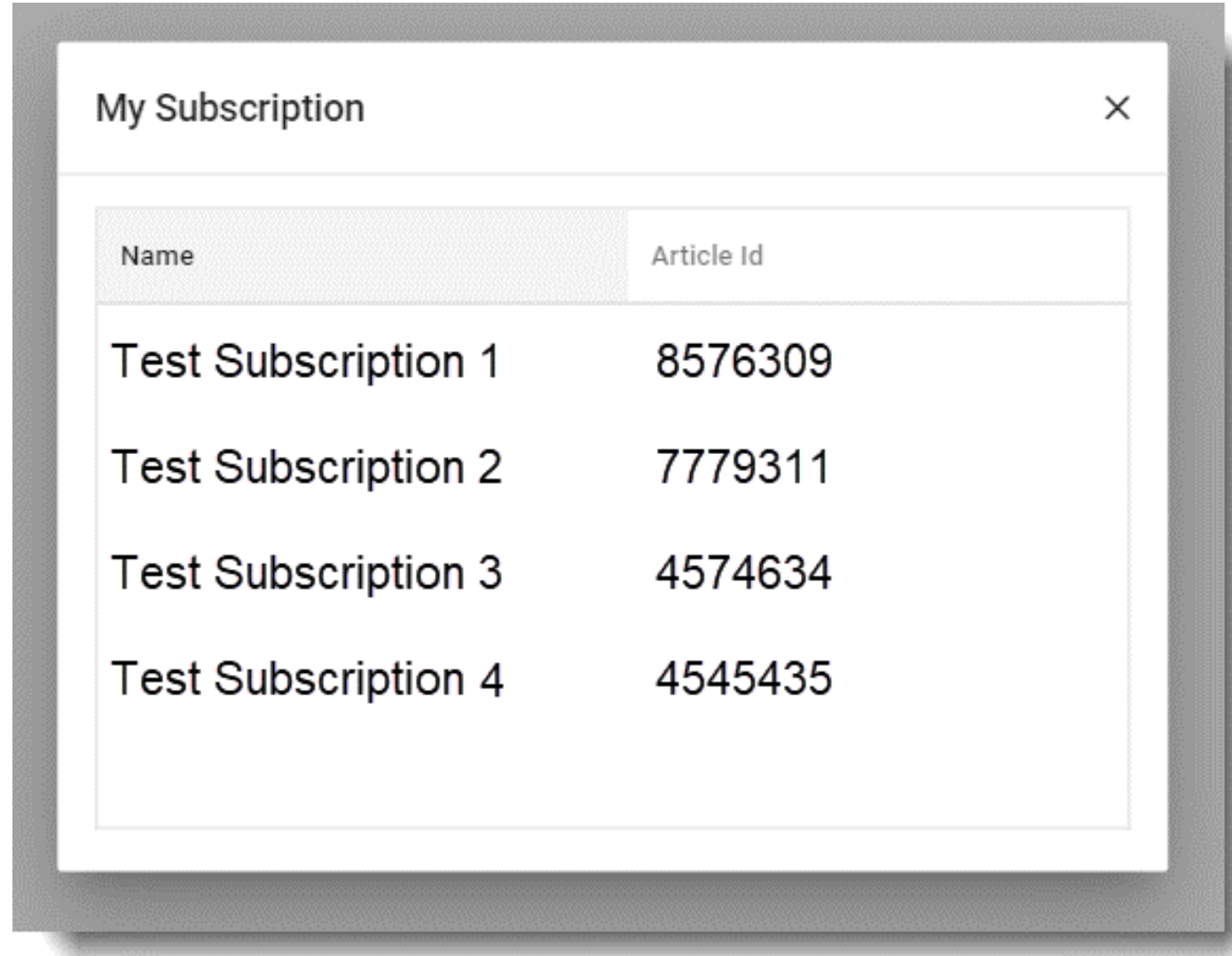


Review your input information, and then use the back button, to go back and make any corrections. When completed click the done button or the submit button.



Current Subscription

All the Note's subscriptions that are added to the Notes module will be displayed in the My Subscriptions window, with the name and the article number that it's related to.



Name	Article Id
Test Subscription 1	8576309
Test Subscription 2	7779311
Test Subscription 3	4574634
Test Subscription 4	4545435

Tasks

- Create a Task
- Open
- Progress
- Review
- Done

Below the Notes tab, is the Task Section tab. Upon opening, there will be a new window with a **+Create Task button**, on the upper-right side of the Task window (below the Task title).

Tasks

+ CREATE TASK ☰ ☰

Open

In Progress

In Review

Done

TEST TASK 001

-This is a test Task for Training purposes. This is only a test.

TEST-AREA\TEST-LINE

Administrator Administrator
September 30th 2021, 11:33: am

test

TEST-AREA\TEST-LINE

TEST TASK 001

This is a test Task for Training purposes. This is only a test. IN PROGRESS/ When the work is being started or performed, this Task Placard can be moved to the In progress section. That will show that it has been started or is In Progress

TEST-AREA\TEST-LINE

Administrator Administrator
September 30th 2021, 11:20: am

test

TEST-AREA\TEST-LINE

TEST TASK 001

-This is a test Task for Training purposes. This is only a test. -IN PROGRESS/ When the work is being started or performed, this Task Placard can be moved to the In progress section. That will show that it has been started or is In Progress -IN REVIEW / When placed in the IN REVIEW, the Originator can review the work along with the Assignee, to determine if it can be moved to DONE or back to IN PROGRESS for more work.

TEST-AREA\TEST-LINE

Administrator Administrator
September 30th 2021, 11:28: am

test

TEST-AREA\TEST-LINE

TEST TASK 001

-This is a test Task for Training purposes. This is only a test. TASK IS COMPLETED- PLACED IN THE DONE SECTION

TEST-AREA\TEST-LINE

Administrator Administrator
September 30th 2021, 11:32: am

test

TEST-AREA\TEST-LINE



Create a Task

1. Click the Create Task button. This will open and Add Task window, as seen below. Use the editing dialogs and drop-downs to fill out all the necessary information.

The screenshot shows a window titled "Add Task" with a close button (X) in the top right corner. It contains several input fields and dropdown menus: "Title" (text input), "Status" (dropdown menu with "Select..." text), "Priority" (dropdown menu with "Select..." text), "Assignee" (dropdown menu with "Select..." text), "Summary" (text input), "tag" (text input), and "Assign an Object" (dropdown menu).

2. Input a name for the Title of the subscription. Make it brief, but descriptive. There will be a summary further down where you can explain the task.

The screenshot shows a text input field with the label "Title" above it. The text "TEST TASK 001" is entered into the field.

3. Under the status, if this is an initial task created, then click Open. Once a task is created it can be moved from Open, to In Progress, In Review, or Done.

The screenshot shows a dropdown menu titled "Status" with a "Select..." prompt. The menu is open, showing four options: "Open", "In Progress", "In Review", and "Done".

4. Now, select your priority. You can select from Low, Normal, Critical, or High. The priority will also be represented by a color-coded vertical line on the left side of the task placard.

The screenshot shows a dropdown menu titled "Priority" with a "Select..." prompt. The menu is open, showing four options: "Low", "Normal", "Critical", and "High".

5. Select an assignee.

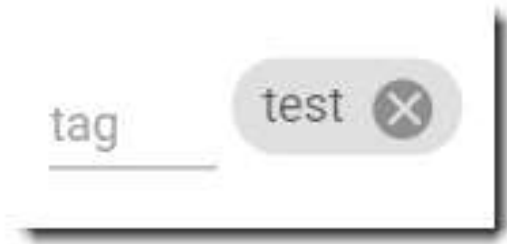
The screenshot shows a dropdown menu titled "Assignee" with a "Select..." prompt. The menu is open, showing three options: "Tom Katt", "Phil Dodd", and "Ellen Wood".

6. In the summary section and put a detailed description of the tasks you want to perform with all relevant information.

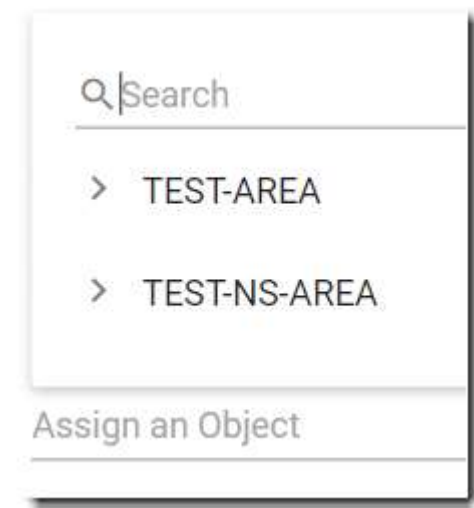
The screenshot shows a text input field with the label "Summary" above it. The text "This is a test Task for Training purposes. This is only a test." is entered into the field.



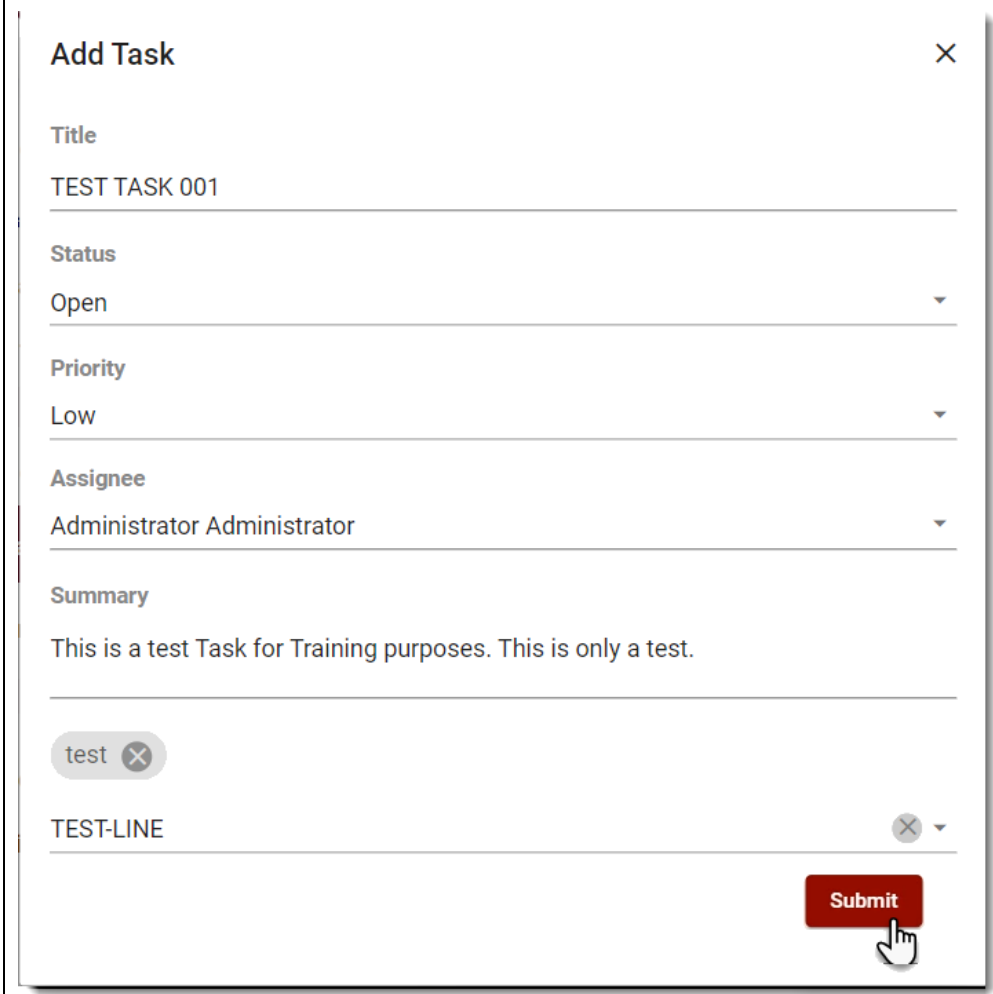
7. Add any tags needed to relate to the task at hand.



8. Now, select the Area, Line, Station, Asset object to link the Task to.



9. Review what you entered the add task window. If everything is correct and click the submit button on the bottom right side.



Open

This column is separated by each user. For each user, the tasks are separated into different columns. The first column will be the Open task column. This is the assigned task section, in which no actions have been performed.

The place card will display the Name of the task, below the name will be the Summary description for the task.

Then it will show the article, or the object selected that it is based on.

Then it will show the assigned recipient.

The date of the creation, tags or labels, and the address of the object or article are placed below.

TEST TASK 001

-This is a test Task for Training purposes.
This is only a test.

TEST-AREA\TEST-LINE

Administrator Administrator
September 30th 2021, 11:33: am

test

TEST-AREA\TEST-LINE

Progress

Next is the In Progress section. This section will be where the task will be placed when it is being worked on or in progress. Once it is finished here. it could be placed in the next section, the "Review" section.

Edit Task ✕

Title
TEST TASK 001

Status
In Progress

Priority
Normal

Assignee
Administrator Administrator

Summary
This is a test Task for Training purposes. This is only a test.
IN PROGRESS/ When the work is being started or performed, this Task Placard
can be moved to the In progress section. That will show that it has been started or is In Progress

test ✕

TEST-LINE ✕

Delete
Submit

In Progress

TEST TASK 001

This is a test Task for Training purposes.
This is only a test. IN PROGRESS/ When
the work is being started or performed,
this Task Placard can be moved to the In
progress section. That will show that it
has been started or is In Progress

TEST-AREA\TEST-LINE

Administrator Administrator
September 30th 2021, 11:20: am

test

TEST-AREA\TEST-LINE

Review

From here the task will be reviewed.

After the review, if everything is ready to be completed, this task can be moved to the done section simply by grabbing it and sliding it over to the done section.

If the task is not finished and needs more work, it can be moved back to the In Progress section.

Done

The last section is the done section. When tasks are placed here, they are considered done or completed.

This can be reviewed to check on the status of a task. If something changes, in one of the tasks that are in the done column. it can be moved to the review or in progress areas. as needed.

TEST TASK 001

-This is a test Task for Training purposes.
This is only a test. TASK IS COMPLETED-
PLACED IN THE DONE SECTION

TEST-AREA\TEST-LINE

Administrator Administrator
September 30th 2021, 11:32: am

test

TEST-AREA\TEST-LINE

In Review

TEST TASK 001

-This is a test Task for Training purposes.
This is only a test. -IN PROGRESS/ When
the work is being started or performed,
this Task Placard can be moved to the In
progress section. That will show that it
has been started or is In Progress -IN
REVIEW / When placed in the IN
REVIEW, the Originator can review the
work along with the Assignee, to
determine if it can be moved to DONE or
back to IN PROGRESS for more work.

TEST-AREA\TEST-LINE

Administrator Administrator
September 30th 2021, 11:28: am

test

TEST-AREA\TEST-LINE

This illustration shows the same task at each status.

Normally, it would be shown only in one status.

Tasks
+ CREATE TASK

Open	In Progress	In Review	Done
<p>TEST TASK 001 -This is a test Task for Training purposes. This is only a test. TEST-AREA\TEST-LINE</p> <p>Administrator Administrator September 30th 2021, 11:33: am</p> <p>TEST-AREA\TEST-LINE</p>	<p>TEST TASK 001 This is a test Task for Training purposes. This is only a test. IN PROGRESS/ When the work is being started or performed, this Task Placard can be moved to the In progress section. That will show that it has been started or is In Progress</p> <p>TEST-AREA\TEST-LINE</p> <p>Administrator Administrator September 30th 2021, 11:20: am</p> <p>TEST-AREA\TEST-LINE</p>	<p>TEST TASK 001 -This is a test Task for Training purposes. This is only a test. -IN PROGRESS/ When the work is being started or performed, this Task Placard can be moved to the In progress section. That will show that it has been started or is In Progress -IN REVIEW / When placed in the IN REVIEW, the Originator can review the work along with the Assignee, to determine if it can be moved to DONE or back to IN PROGRESS for more work.</p> <p>TEST-AREA\TEST-LINE</p> <p>Administrator Administrator September 30th 2021, 11:28: am</p> <p>TEST-AREA\TEST-LINE</p>	<p>TEST TASK 001 -This is a test Task for Training purposes. This is only a test. TASK IS COMPLETED- PLACED IN THE DONE SECTION</p> <p>TEST-AREA\TEST-LINE</p> <p>Administrator Administrator September 30th 2021, 11:32: am</p> <p>TEST-AREA\TEST-LINE</p>

Tasks
+ CREATE TASK

Open	In Progress	In Review	Done
<p>TEST TASK 001 -This is a test Task for Training purposes. This is only a test. TEST-AREA\TEST-LINE</p> <p>Administrator Administrator September 30th 2021, 11:33: am</p> <p>TEST-AREA\TEST-LINE</p>	<p>TEST TASK 001 This is a test Task for Training purposes. This is only a test. IN PROGRESS/ When the work is being started or performed, this Task Placard can be moved to the In progress section. That will show that it has been started or is In Progress</p> <p>TEST-AREA\TEST-LINE</p> <p>Administrator Administrator September 30th 2021, 11:20: am</p> <p>TEST-AREA\TEST-LINE</p>	<p>TEST TASK 001 -This is a test Task for Training purposes. This is only a test. -IN PROGRESS/ When the work is being started or performed, this Task Placard can be moved to the In progress section. That will show that it has been started or is In Progress -IN REVIEW / When placed in the IN REVIEW, the Originator can review the work along with the Assignee, to determine if it can be moved to DONE or back to IN PROGRESS for more work.</p> <p>TEST-AREA\TEST-LINE</p> <p>Administrator Administrator September 30th 2021, 11:28: am</p> <p>TEST-AREA\TEST-LINE</p>	<p>TEST TASK 001 -This is a test Task for Training purposes. This is only a test. TASK IS COMPLETED- PLACED IN THE DONE SECTION</p> <p>TEST-AREA\TEST-LINE</p> <p>Administrator Administrator September 30th 2021, 11:32: am</p> <p>TEST-AREA\TEST-LINE</p>

Profiles

- [Settings](#)
- [Password](#)
- [Areas Permission](#)
- [My Roles](#)

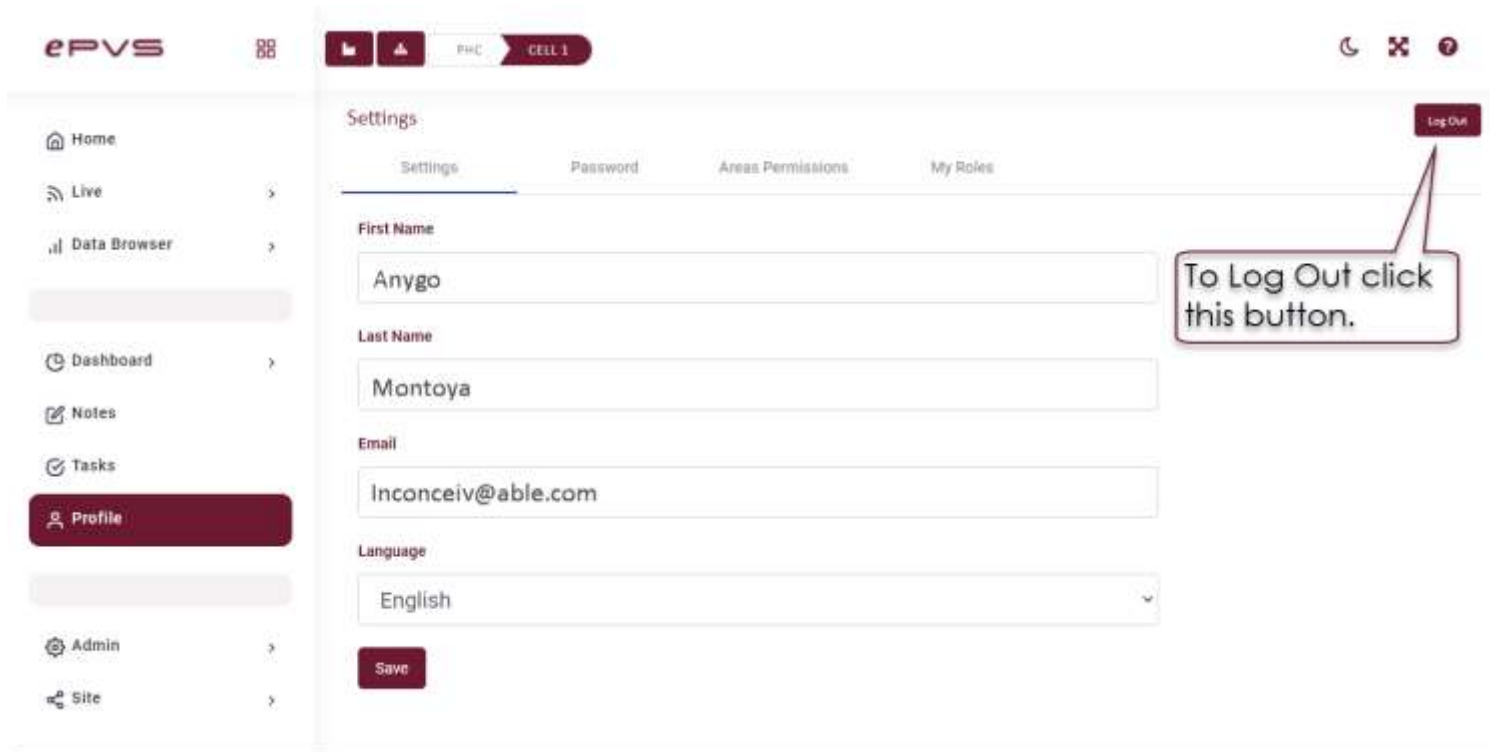
The profiles tab contains the information on the current user. It will contain the settings page which will we require a first and last name, and email address, and the language selection.

There's also an area for a password, area permissions, My Roles, notifications/messages, and a chat section.

Settings

Next is the settings button. Clicking on the settings button will open a small **Settings** window below. This window will display the current user information including the First name, Last name, email address (that ePVS will be tagged to), and a selection of languages.

Once it is completed or edited, click the Save button to finish.



Password

Next, is the password tab. When selecting the password option, the window will open and allow you to change your password. First input the current password in the edit box below. This verifies that you are the actual user.

Next input the new password. There is a password strength meter below this. This will inform you of the strength of your password. Once you selected and input a new password, input that password again in the new password confirmation box.

Once complete, click the save button.

Log Out

To Log Out of ePVS, simply go to the Profiles section an in the upper right-hand corner will be the Log Out button.

Areas Permission

The Areas Permission tab will display all the areas that you have access to it. If you are an admin, you have access to all areas. Access to all the areas is based upon the roles that are set up for the user. For example, a user will be allowed to access the dashboard's data browser and messages. But have some restrictions in some of these areas.

Settings

Settings Password **Areas Permissions** My Roles

All Areas. You're a Admin

- ROLE_LOCAL_ADMIN
- ROLE_USER
- ROLE_ANALYST
- ROLE_ADMIN
- ROLE_LEADER
- ROLE_BASELINE_EDITOR

Your assigned roles will appear here, unless you were an Admin (All Areas. You're a Admin).

My Roles

The My Roles tab consists of the roles that you've been assigned by an administrator. Each level will gain access to certain or all sections of the EPVS module. The Scheduling module allows you to set up and configure a schedule for multiple shifts it also will allow you to schedule on production events such as preventative maintenance breaks and other reasons for a scheduled shutdown.

Settings

Settings Password Areas Permissions **My Roles**

- ROLE_LOCAL_ADMIN
- ROLE_USER
- ROLE_ANALYST
- ROLE_ADMIN
- ROLE_LEADER
- ROLE_BASELINE_EDITOR

All the Roles you were granted by the Administrator are listed here.



Scheduling Module

- [Maintain Scheduled Shift](#)
- [Name](#)
- [Label](#)
- [Start Time / End Time](#)
- [Non-Production Event](#)
- [Planned Schedule](#)
- [Target Efficiency](#)
- [Is Disabled](#)
- [Extend](#)
- [Object](#)



The Scheduling module allows you to set up and configure a schedule for multiple shifts it also will allow you to schedule on production events such as preventative maintenance breaks and other reasons for a scheduled shutdown.

Maintain Scheduled Shift

Name

Enter the **Name** of the Shift (**Day**).

Label

Some shifts have 2 or more other shifts, so you can enter which shift it is by labeling them **Crew A** and **B** or **1, 2,** and **3**.

Enter the Start Time for the shift by clicking inside the edit box. This will open a time clock menu. Click on the Hour to set, then click on the minutes. Select A.M. or P.M., then Click Save when you are done.

Name

Label

Start Time / End Time

Start Time **End Time**

[Back](#)

Create or edit a Schedule Event Mon October 11th 2021

Name

Label

Start Time End Time

Non Production Events

Name	Label	Start	End
Lunch	General	11:30 a.m.	12:30 p.m.
Scheduled Maint	General	1:30 a.m.	2:00 p.m.

Planned Schedule Select the Planned Schedule to make this repeat for all the shift's select.

Target Efficiency

The target efficiency can be adjusted by setting changing the default number (0) to:

Example 1
If Normal Cycle Time = 100 seconds.
If the shift runs at half speed (50%), enter the Cycle Speed Factor to 0.5.
This will make the Effective Cycle Time = 200 seconds.

Example 2
If Normal Cycle Time = 100 seconds.
If the shift runs at half speed (25%), enter the Cycle Speed Factor to 0.25.
This will make the Effective Cycle Time = 400 seconds.

Is Disabled

Extend: **Extend Until:** Monday Tuesday Wednesday Thursday Friday Saturday Sunday

Objects (Please select an Area)

TEST-AREA

TEST-NS-AREA

[Cancel](#) [Save](#)

Click on the drop-down menu to choose an Area Object.

After selecting the Extend option, A placard of the week will appear. Select the days of the week you would like to extend this schedule event. Then click on the Extend Until option. Select the date on the week calendar, and this scheduled event will repeat until the Extend date is reached.

Non-Production Event

During a shift, it may be necessary to have a scheduled shutdown for Preventative Maintenance, Breaks, or a Shift change. For that, we have an area to input a Non-Production Event.

To set this up, start by clicking in the box under the NPE. Input the Name/Reason in that Edit box.

Click in the Start time box to open a Time Clock Menu. Use this to input the Start Time for the event. Now input the End time. Verify after inputting the times, that the correct time to the right of the Start and End time is correct as intended. If not, you can simply select the delete button or make a correction to either.

Non Production Events

Name	Label	Start	End
Lunch	General	12:00 p.m.	1:00 p.m.
S. Check	General	2:00 p.m.	2:30 p.m.
Shift Change	General	4:00 p.m.	4:30 p.m.

Name	Label	Start	End

Planned Schedule

Target Efficiency

Is Disabled

Extend:

Objects (Please select an Area)

TEST-AREA

September 2020

Sun	Mon	Tue	Wed	Thu	Fri	Sat
30	31	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	1	2	3
4	5	6	7	8	9	10

TODAY

10 : 01 AM

OK CANCEL

Cancel
Save



Planned Schedule

Select the Planned Schedule to make this repeat for all the shift's select.

Now select the Repeat Shift checkbox if you would like to add duplicate shifts throughout the week.

Planned Schedule



October 2023							Month
Sat	Mon	Tue	Wed	Thu	Fri	Sat	
28	29	30	31	01	02		
2nd Shift	1st Shift	1st Shift	1st Shift	1st Shift	1st Shift	1st Shift	
1st Shift	2nd Shift		2nd Shift	2nd Shift	2nd Shift	2nd Shift	
2nd Shift		2nd Shift		2nd Shift		2nd Shift	
03	04	05	06	07	08	09	
1st Shift	1st Shift	1st Shift	1st Shift	1st Shift	1st Shift	1st Shift	
2nd Shift		2nd Shift		2nd Shift		2nd Shift	
2nd Shift	2nd Shift		2nd Shift		2nd Shift		
10	11	12	13	14	15	16	
1st Shift	1st Shift	1st Shift	1st Shift	1st Shift	1st Shift	1st Shift	
2nd Shift		2nd Shift		2nd Shift		2nd Shift	
2nd Shift	2nd Shift		2nd Shift		2nd Shift		
17	18	19	20	21	22	23	
1st Shift	1st Shift	1st Shift	1st Shift	1st Shift	1st Shift	1st Shift	
2nd Shift		2nd Shift		2nd Shift		2nd Shift	
2nd Shift	2nd Shift		2nd Shift		2nd Shift		
24	25	26	27	28	29	30	
1st Shift	1st Shift	1st Shift	1st Shift	1st Shift	1st Shift	1st Shift	
2nd Shift		2nd Shift		2nd Shift		2nd Shift	
2nd Shift	2nd Shift		2nd Shift		2nd Shift		
31	01	02	03	04	05	06	
1st Shift	1st Shift	1st Shift	1st Shift	1st Shift	1st Shift	1st Shift	
2nd Shift		2nd Shift		2nd Shift		2nd Shift	
2nd Shift	2nd Shift		2nd Shift		2nd Shift		

Target Efficiency

The target efficiency can be adjusted by setting changing the default number (0) to:

- **Example 1**
- **If Normal Cycle Time = 100 seconds.**
- **If the shift runs at half speed (50%), enter the Cycle Speed Factor to 0.5.**
- **This will make the Effective Cycle Time = 200 seconds.**

- **Example 2**
- **If Normal Cycle Time = 100 seconds.**
- **If the shift runs at quarter speed (25%), enter the Cycle Speed Factor to 0.25.**
- **This will make the Effective Cycle Time = 400 seconds.**

Is Disabled

Is Disabled

The Is Disabled is used by engineering and development groups.

Extend

After selecting the **Extend** option, A placard of the week will appear. Select the days of the week you would like to extend this schedule event. Then click on the **Extend Until** option. Select the date on the week calendar, and this scheduled event will repeat until the Extend date is reached.

Review your entries, then click the **Save** button to finish.

Extend:

Extend Until: 9/11/2020

- Monday
- Tuesday
- Wednesady
- Thursday
- Friday
- Saturday
- Sunday

Object

Select an area object from the drop-down menu. This schedule will represent this specific area.

October 2021							Month
Sun	Mon	Tue	Wed	Thu	Fri	Sat	
1st Shift	1st Shift	1st Shift	1st Shift	1st Shift	1st Shift	1st Shift	1st Shift
2nd Shift	2nd Shift	2nd Shift	2nd Shift	2nd Shift	2nd Shift	2nd Shift	2nd Shift
3rd Shift	3rd Shift	3rd Shift	3rd Shift	3rd Shift	3rd Shift	3rd Shift	3rd Shift
02	03	04	05	06	07	08	09
1st Shift	1st Shift	1st Shift	1st Shift	1st Shift	1st Shift	1st Shift	1st Shift
2nd Shift	2nd Shift	2nd Shift	2nd Shift	2nd Shift	2nd Shift	2nd Shift	2nd Shift
3rd Shift	3rd Shift	3rd Shift	3rd Shift	3rd Shift	3rd Shift	3rd Shift	3rd Shift
10	11	12	13	14	15	16	17
1st Shift	1st Shift	1st Shift	1st Shift	1st Shift	1st Shift	1st Shift	1st Shift
2nd Shift	2nd Shift	2nd Shift	2nd Shift	2nd Shift	2nd Shift	2nd Shift	2nd Shift
3rd Shift	3rd Shift	3rd Shift	3rd Shift	3rd Shift	3rd Shift	3rd Shift	3rd Shift
17	18	19	20	21	22	23	24
1st Shift	1st Shift	1st Shift	1st Shift	1st Shift	1st Shift	1st Shift	1st Shift
2nd Shift	2nd Shift	2nd Shift	2nd Shift	2nd Shift	2nd Shift	2nd Shift	2nd Shift
3rd Shift	3rd Shift	3rd Shift	3rd Shift	3rd Shift	3rd Shift	3rd Shift	3rd Shift
24	25	26	27	28	29	30	
1st Shift	1st Shift	1st Shift	1st Shift	1st Shift	1st Shift	1st Shift	1st Shift
2nd Shift	2nd Shift	2nd Shift	2nd Shift	2nd Shift	2nd Shift	2nd Shift	2nd Shift
3rd Shift	3rd Shift	3rd Shift	3rd Shift	3rd Shift	3rd Shift	3rd Shift	3rd Shift
31							
1st Shift	1st Shift	1st Shift	1st Shift	1st Shift	1st Shift	1st Shift	1st Shift
2nd Shift	2nd Shift	2nd Shift	2nd Shift	2nd Shift	2nd Shift	2nd Shift	2nd Shift
3rd Shift	3rd Shift	3rd Shift	3rd Shift	3rd Shift	3rd Shift	3rd Shift	3rd Shift

Objects (Please select an Area)

- Area 7.16.3.13
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- Area 1.2
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Trouble Shooting

See the Product Support section for available content at Beet Analytics Technology support website:
<https://beetinc.atlassian.net/servicedesk/customer/portal/1>

For more information or questions, go to the ePVS Customer Knowledge Base website:
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6. Limitation of Liability

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TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, UNLESS OTHERWISE SPECIFIED IN ANY APPLICABLE SPECIFIC TERMS FOR THIRD PARTY SOFTWARE, BEET ANALYTICS TECHNOLOGY'S POTENTIAL LIABILITY TO LICENSEE, FOR ANY AND ALL CLAIMS IN ANYWAY ARISING FROM OR IN CONNECTION WITH THE SUBJECT MATTER OF THIS EULA, WHETHER BASED IN CONTRACT, OR OTHER THEORY OF LIABILITY, IS LIMITED AS FOLLOWS:

EXCEPT FOR BEET ANALYTICS TECHNOLOGY'S LIABILITY UNDER SECTION 4.2 HEREOF, BEET ANALYTICS TECHNOLOGY'S AGGREGATE LIABILITY FOR DIRECT DAMAGES SHALL NOT EXCEED IN THE AGGREGATE THE AMOUNT CORRESPONDING TO FEES ACTUALLY PAID BY THE CONCERNED LICENSEE IN THE PRECEDING TWELVE (12) MONTH PERIOD PRIOR TO THE OCCURRENCE OF THE CAUSE OF ACTION GIVING RISE TO THE CLAIM FOR THE USE OF THE LICENSED SOFTWARE WHICH CAUSED THE DAMAGES. TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, LICENSEE EXPRESSLY AND IRREVOCABLY WAIVES, AND BEET ANALYTICS TECHNOLOGY SHALL HAVE NO LIABILITY IN RESPECT OF, ANY AND ALL CLAIMS FOR INDIRECT, INCIDENTAL, CONSEQUENTIAL OR PUNITIVE DAMAGES, INCLUDING WITHOUT LIMITATION CLAIMS FOR LOST PROFITS, BUSINESS INTERRUPTION AND LOSS OF DATA, THAT IN ANY WAY RELATE TO THIS EULA, LICENSED SOFTWARE, DOCUMENTATION OR SERVICES, WHETHER OR NOT BEET ANALYTICS TECHNOLOGY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES AND NOTWITHSTANDING THE FAILURE OF THE ESSENTIAL PURPOSE OF ANY REMEDY. LICENSEE WAIVES ANY AND ALL CLAIMS FOR ANY DIRECT, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES, FOR ANY REASON AND ON ANY BASIS, AGAINST ANY BEET ANALYTICS TECHNOLOGY PROVIDERS, OR.

All legal actions against Beet Analytics Technology must be filed with the appropriate judicial jurisdiction within two (2) years after the cause of action has arisen.

7. Term and Termination

7.1 Term: This EULA shall come into force on the Effective Date and shall remain in full force and effect for a period of three (3) years from its Effective Date, unless terminated earlier as provided hereunder. Each Affiliate Participation Agreement shall expire concurrently with the EULA, unless terminated earlier in accordance with the provisions herein.

7.2 Termination of the EULA a) Material Breach. Either Beet Analytics Technology or Licensee may terminate this EULA and/or any licenses granted under this EULA, if the other is in material breach of any of its obligations and has failed to remedy such breach within thirty (30) days of receipt of written notice. b) For Convenience. Licensee may terminate any license to any Licensed Software by providing written notice to Beet Analytics Technology. Such notice may be provided at any time for perpetual licenses. Notices for term licenses shall be provided sixty (60) days prior to the Anniversary Date of the License. Licensee shall not be entitled to any refund or credit for termination of a license for any reason.

7.3 Effect of Termination of the EULA a) Effect of Termination of the EULA for Non-Payment. If this EULA is terminated by Beet Analytics Technology for breach by Licensee of its payment obligations, termination of this EULA shall also result in the termination of (i) Licensee's rights to use any licenses for which payment has not been made; (ii) the right of Licensee and (iii) Licensee's right to submit any further Ordering Documents under this EULA. All licenses for which Licensee is not in breach of its obligations shall remain in full force and effect. b) Effect of Termination of the EULA for Other Breach. If this EULA is terminated by Beet Analytics Technology for material breach by Licensee of any other obligations hereunder, termination of this EULA shall also result in the termination of Licensee's rights to use all Licensed Software ordered hereunder.

7.4 Effect on Licensed Software of Termination or Expiration of the EULA and/or Affiliate Participation Agreement Upon expiration or termination of this EULA and/or any Affiliate Participation Agreement or any licenses granted hereunder as a result of Licensee's uncured material breach or by Licensee for convenience, Licensee shall immediately destroy or return all copies of the terminated or expired Licensed Software and associated Documentation in their entirety, and duly certify the same in writing to Beet Analytics Technology. Expiration or termination of this EULA and/or any Affiliate Participation Agreement or any license shall not relieve Licensee of its obligation to pay all fees that have accrued or are otherwise owed by Licensee under any Ordering Document. The expiration or termination will not prejudice the rights and remedies of the non-breaching parties.

7.5 Termination of Software Maintenance Services a) By Licensee: Licensee may terminate Software Maintenance Services for a Licensed Software subject to the following conditions: (i) Licensee notifies Beet Analytics Technology with at least sixty (60) days prior notice, and (ii) such termination shall apply to Software Maintenance Services related to all licenses of said Licensed Software held by Licensee under any license agreement then in force between Licensee and Beet Analytics. In such case for all such licenses described in the preceding sentence: (x) Licensee shall have no further obligation to pay the Software Maintenance Services fees related to the corresponding Licensed Software; (y) Licensee shall duly certify in writing to Beet Analytics Technology that all copies of all Releases of the Licensed Software other than those of the latest Release of the Licensed Software installed by Licensee, have been duly destroyed or returned to Beet Analytics Technology in their entirety; and (z) Software Maintenance Services for such Licensed Software will terminate at the expiration of the thirty (30) day notice



period. Beet Analytics Technology shall have no further obligation to provide any services or deliver any Release in support of any such licenses, except for providing license keys if necessary. Licensee may reinstate Software Maintenance Services, provided such reinstatement is activated for all licenses of a given Licensed Software held by Licensee under any license agreement then in force between Licensee and Beet Analytics Technology or any other Beet Analytics Technology, and Licensee pays all fees that would have been due in respect of Software Maintenance Services from the date of termination of Software Maintenance Services to the date of reinstatement of such Software Maintenance Services plus a reinstatement fee???. b) By Beet Analytics Technology: Beet Analytics Technology may terminate Software Maintenance Services related to all Licensed Software under this EULA if Licensee fails to pay Software Maintenance Services fees when due, upon thirty (30) days prior written notice. Fees related to Software Maintenance Services shall be due by Licensee until termination of such Software Maintenance Services.

8. Miscellaneous

8.1 Purchase Orders. Licensee's purchasing terms and conditions shall not in any way supersede, modify, vary or otherwise supplement the terms of this EULA.

8.2 Notices. All notices required hereunder shall be in writing, in English and shall be deemed to have been given (i) the date delivered in person or by reputable express courier service, (ii) three (3) days after sending the notice if sent by certified or registered mail, (iii) the date sent by confirmed facsimile, addressed to the parties at their addresses in the Ordering Documents, or at such other address as either party may designate to the other by notice served as hereby required, or contained in the relevant order form.

8.3 Force majeure. Neither Party hereto shall be liable for any default in the performance of its obligations under this EULA resulting from (i) a case of force majeure as defined by the law governing this EULA and the courts in such jurisdiction and (ii) the following causes: strikes (whether previously announced), war (declared or not), riots, governmental action, acts of terrorism, acts of God (fire, flood, earthquake, etc.).

8.4 Severability. If any part of this EULA is found to be invalid, illegal or unenforceable in any respect, the remaining provisions shall nevertheless be binding with the same effect as if the invalid, illegal or unenforceable part was originally deleted.

8.5 Transfer, Assignment & Subcontract. Licensee shall not subcontract, assign, delegate or otherwise transfer (including without limitation, by way of merger or contribution) any or all of its rights, duties, benefits or obligations under this EULA, or sublicense Licensed Software to any third party without Beet Analytics Technology's prior written approval. Any approved transfer of licenses to another country may be subject to an adjustment in price, as prices are specific to each country or region. This EULA shall be binding upon, and inure to the benefit of Beet Analytics Technology and its successors and assigns. Beet Analytics Technology may assign, delegate or otherwise transfer (including without limitation, by way of merger or contribution), any of its rights or obligations hereunder and/or otherwise subcontract any of its obligations, in whole or in part, to any Beet Analytics Technology and/or to any third party, without Licensee's consent.

8.6 Amendments & Non-Waiver. No waiver, alteration, modification, or cancellation of any of the provisions of this EULA or of any Affiliate Participation Agreement shall be binding unless made by written amendment signed by all parties. A party's failure at any time or times to require performance of any provision shall in no manner affect its right at a later time to enforce such provision.

8.7 Audit. During the term of this EULA and for a period of three (3) years thereafter, Licensee shall establish and maintain accurate information records relating to the use, and when applicable, destruction of the Licensed Software. Beet Analytics Technology shall have the right at any time, at its own expense and under reasonable conditions of time and place, to audit and copy these records. Licensee also hereby authorizes Beet Analytics Technology to verify its compliance with the terms of the EULA. For such purpose, Beet Analytics Technology may conduct an audit on Licensee's premises during normal business hours, in a manner that minimizes disruption to its business. Beet Analytics Technology may require Licensee to provide it or any third party Beet Analytics Technology engages to conduct such verification, with machine access, copies of system tools outputs, or other electronic or hard copy system information as appropriate. If the audit reveals unauthorized use of any Licensed Software, Licensee shall promptly pay to Beet Analytics Technology any amounts owed as a result of such unauthorized use at the then current list price. In the event such unauthorized use is five percent or greater of Licensee's authorized licenses for the applicable Licensed Software, then in addition to Licensee paying the applicable charges, Licensee shall reimburse Beet Analytics Technology for the cost of such audit. In a joint effort to prevent software piracy, Licensee shall comply with any changes in the Licensed Software licensing security mechanism that aims at preventing fraud. By invoking the rights and procedures described above, Beet Analytics Technology does not waive its rights to enforce this EULA or to protect its intellectual property by any other means permitted by law.

8.8 Export. Export to Licensee of Licensed Software and Documentation is subject to all applicable countries' export and re-export laws and regulations. Licensee shall not export or re-export, either directly or indirectly, Licensed Software when such export or re-export requires an export license or other governmental approval without first obtaining such license or approval. Licensee hereby certifies to Beet Analytics Technology that the Licensed Software ordered hereunder will not be used in violation of any applicable export laws, including for proliferation of any nuclear, chemical or biological weapons or missile delivery systems and will not be diverted. Beet Analytics Technology may terminate this EULA and all licenses hereunder upon written notice if Licensee violates these provisions.

8.9 Entire EULA; Order of Precedence. These General Terms together with the Ordering Documents comprise the complete agreement between the parties relating to the subject matter hereof and supersede all prior and contemporaneous proposals, agreements, understandings, representations, purchase orders and communications, whether oral or written. If there is a discrepancy, inconsistency or contradiction between any Licensed Software and terms contained herein, the provisions of the corresponding Licensed Software Terms shall prevail, but solely with respect to those Licensed Software described in such Licensed Software Terms. Licensee acknowledges that it has full knowledge of all terms herein and incorporated herein, and agrees to be bound by and to comply with such terms and has not relied on the future availability of functionality or product updates with respect to any Licensed Software in entering into this EULA thereunder. The terms of this EULA shall have no force or effect with respect to any claim based on the use of any intellectual property rights of Beet Analytics Technology outside the scope of the licenses expressly granted herein.

8.10 Governing law and jurisdiction. This EULA shall be governed and construed in accordance with the laws of, and the legal relations between the parties shall be determined in accordance with, the laws of State of Michigan, United States of America, without regard to any conflict of laws principles and excluding application of the United Nations Convention for the International Sale of Goods. The parties irrevocably waive all rights to trial by jury for any such litigation between them. All actions and proceedings arising out of or relating to this EULA shall be exclusively heard and determined by the Courts of the State of Michigan, United States of America. Notwithstanding the foregoing, Beet Analytics Technology may, in its sole discretion, bring any claim or dispute (including but not limited to seeking injunctive relief and/or equitable remedies) arising out of, or in connection with the validity, interpretation and/or performance of this EULA before any courts and or administrative authorities having jurisdiction over the subject matter of any such claim or dispute. This provision shall survive any termination or expiration of the EULA. Licensee acknowledges and agrees that the paragraph immediately above shall not prevent, restrict or otherwise limit in any manner, Beet Analytics Technology's rights to seek equitable remedies, including injunctive relief before any competent court in any jurisdiction.

8.11 Survival. The following sections of these General Terms shall survive termination thereof: "License Limitations", "Intellectual Property", "Warranties, Limitations and Disclaimers", "Limitation of Liability", "Term and Termination", "Miscellaneous", "Glossary"..



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8.13 Counterparts. This EULA may be executed simultaneously in two (2) or more counterparts, each of which will be considered an original, but all of which together will constitute one and the same instrument.

9. Glossary

"Authorized Users" means (i) the employees of Licensee, including employees of Licensee's directly and indirectly wholly-owned subsidiaries within the USA that are controlled by Licensee and unincorporated divisions of Licensee, but not employees of other legal entities (including employees of any legal entity that is a part of a group of companies affiliated with Licensee, but that do not qualify as direct or indirect wholly owned subsidiaries of Licensee), and (ii) Licensee's consultants, agents and contractors who are working on Licensee's premises, provided they are not competitors of Beet Analytics Technology and they have agreed in writing to restrictions on the use of the Software and obligations of confidentiality no less stringent than those set forth in this Agreement. For the purpose of this definition, "controlled" is defined as the direct or indirect ownership of more than 50% of the voting securities of an affiliate. Licensee shall hold Beet Analytics Technology harmless and shall indemnify Beet Analytics Technology for any loss, cost, damage or expense (including reasonable attorney's fees) incurred by Beet Analytics Technology as a result of the failure by an Authorized User to abide by the terms of this Agreement. Documentation means, at any time, the current user documentation in any form or media as delivered together with the Licensed Software by Beet Analytics Technology for use in connection with Licensed Software.

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