



**BEET**

enVision

**End User Manual**

**V 3.6**

Rev 1.1



# 3D VISUALIZATION



# Contents

- Welcome to enVision 3.6 ..... 8
  - What's New 3.6 ..... 9
  - More Information 3.6..... 10
- Sectional Content 3.6 ..... 11
- Software Application 3.6 ..... 12
  - Navigation 3.6 ..... 13
    - Plant Navigation 3.6 ..... 14
    - Main Tree Object and Description 3.6..... 15
    - How to Navigate with enVision 3.6 ..... 16
      - Top Navigation Bar 3.6 ..... 17
      - Main Tree Navigation 3.6 ..... 18
      - Object String Navigation 3.6 ..... 18
      - Object Tree 3.6 ..... 19
      - Settings..... 20
      - About enVision 3.6 ..... 20
- Cycle View Browser 3.6 ..... 21
  - Opening Cycle View 3.6 ..... 22
    - Cycle View Breakdown 3.6 ..... 23
  - Selecting a Cycle 3.6 ..... 24
  - View Types 3.6..... 25
    - User Parameter History ..... 26
    - View Options ..... 27
  - Object Properties 3.6..... 28
  - Distribution – Cycle View 3.6..... 29
  - Messages (Cycle View) 3.6 ..... 30
  - Smart Swap 3.6..... 31
    - Opening Smart Swap ..... 31
    - Selecting an Object..... 31
    - Configuring Smart Swap Data ..... 32
- Baseline Editor (Auto Learn) 3.6..... 35
  - Opening the Baseline Editor ..... 35
- Cycle View Evaluation Module 3.6 ..... 38
  - Overview ..... 38
  - Open Cycle View 3.6..... 39
  - Selecting Cycles to Compare 3.6 ..... 40
  - Open Cycle Compare Window 3.6..... 41
  - Configure Cycle Collection 3.6..... 42
  - Adding More Cycles 3.6..... 43
  - Zoom Feature 3.6 ..... 44
  - Deleting a Cycle 3.6 ..... 45



Deleting a Collection 3.6.....	46
Cycle Toggle Feature 3.6 .....	47
Reference for CEM .....	48
Cycle Compare (Collection) Window.....	48
Adding Addition Cycles.....	49
Cycle Compare Browser .....	49
Cycle History 3.6.....	50
Overview .....	50
Color Code 3.6.....	51
Location 3.6.....	52
History Filter Options 3.6 .....	53
Cycle Date Options 3.6 .....	61
Cycle History View types 3.6 .....	63
History View .....	63
Model View .....	63
Table View.....	63
Bar Chart .....	63
Cycle History Day View 3.6.....	65
Cycle History Higher Level View 3.6 .....	66
Production Counts in New Window 3.6 .....	67
Opening the Production Counts .....	67
Parameters Window.....	67
Select Date Range.....	67
Efficiency .....	68
Select Area.....	68
Hourly Target Rounding .....	68
Change Parameters .....	68
Reporting.....	68
PM Average Cycle.....	70
Opening PM Average Cycle .....	70
Navigating to a Higher Level.....	72
Configure Report .....	73
Reset All.....	74
Dashboards 3.6.....	75
enVision Dashboard 3.6.....	76
Dashboard Overview .....	76
Dashboard Item and Description .....	76
Dashboard Item and Description 3.6.....	77
Navigation Panel .....	77
Child History Table .....	77
Offload Efficiency Table.....	77
OEE Chart .....	78
Cycle Status Graph .....	78
Notes Panel .....	78



State Duration Graph .....	79
Fault Table.....	79
Hotspots Panel .....	79
User Dashboard 3.6.....	80
User Dashboard Template Menu .....	80
Day/Shift Filter .....	81
Filter (User Dashboard 3.6) .....	82
Create New Dashboard (User Dashboard 3.6) .....	83
Import Dashboard (User Dashboard 3.6) .....	83
Template Actions (User Dashboard 3.6) .....	85
User Dashboard Menu (User Dashboard 3.6) .....	96
Save (UDM) .....	96
Data Sources (UDM).....	97
Creating a Calculated Field (UDM) .....	100
Add Calculated Field.....	100
Parameters (UDM) .....	101
Hotspots 3.6 .....	102
Overview .....	102
Navigating 3.6.....	103
Hotspots Option 3.6 .....	104
Set Date Range .....	104
Variance .....	104
Hour Detail .....	105
Hotspot Views 3.6 .....	106
Filter .....	106
Timeline 3.6.....	107
Count/Accumulation 3.6 .....	108
Pallet Breakdown 3.6 .....	109
Model Breakdown 3.6.....	110
Pivot - Hotspots.....	111
enVision Notes 3.6.....	113
Overview .....	113
Notes in Cycle View 3.6 .....	115
Opening Note 3.6 .....	116
Select Common Notes.....	116
Enter Custom Note 3.6.....	117
View Notes 3.6 .....	117
Scheduling 3.6 .....	118
Navigating.....	118
Scheduling Configuration .....	118
Non-Production Event.....	120
Extend Shifts.....	122
Deleting Shifts .....	123
Production Monitor 3.6.....	124
Location 3.6 .....	125
Select Historical Shift 3.6.....	126



Change Object 3.6 .....	127
Alternate Navigational options .....	127
Hour View and Shift View 3.6 .....	128
Hour View and Shift View .....	128
Rollup Hotspots 3.6 .....	129
Filters 3.6 .....	130
Show and Hide .....	131
Production Lost 3.6 .....	132
Buttons and Descriptions 3.6 .....	133
Reporting 3.6 .....	138
Overview .....	138
Opening the Module (Reporting 3.6) .....	139
Opening Dashboard Reports .....	140
Run (Reporting 3.6) .....	141
Creating a New Report .....	142
Report Editor Board .....	143
Configuration Menu Panel 3.6 .....	143
Field List 3.6 .....	144
Properties 3.6 .....	146
Report Explorer 3.6 .....	150
Creating a New Report 3.6 .....	152
Report Editor Board 3.6 .....	153
Subscribe (Reporting 3.6) .....	154
Overview (Subscribe 3.6) .....	154
Configuring Subscription (Subscribe 3.6) .....	155
Setting up the Subscription (Subscribe 3.6) .....	156
Setting up the Subscriptions .....	156
enSight 3.6 .....	157
Getting Started .....	158
Opening enSight .....	159
Navigating enSight .....	160
enSight Dashboard .....	175
Dashboard .....	175
Filter Date/Shift Range Tool .....	177
Dashboard Waterfall Tab .....	179
Dashboard OEE Tab .....	181
Dashboard Summary Tab .....	183
Realtime (Current Shift)* .....	185
Layout .....	185
Timeline Tab .....	186
Messages .....	186
Cyclelength .....	186
Realtime Layout .....	187
Realtime Timeline Tab .....	197
Realtime Messages .....	199



Realtime Cyclelength Tab.....	203
Production History .....	207
Conditional Notifications 3.6.....	212
Range (Conditional Note 3.6) .....	213
Condition (Conditional Note 3.6) .....	214
Condition.....	214
Email (Conditional Note 3.6) .....	215
Text Message (Conditional Note 3.6).....	216
Link to Subscriptions (Conditional Note 3.6).....	217
Link to Subscriptions .....	217
System Health Monitor 3.6 .....	218
EAS Monitor 3.6.....	219
EDC Monitor 3.6 .....	220
Glossary .....	221
Product Support .....	222
Trouble Shooting .....	223
License and Copyright .....	224



## Welcome to enVision 3.6

**enVision** enterprise solution helps companies to optimize automation processes, minimize unnecessary maintenance, and increase production throughput. In the scope of process diagnostics and quality management, enVision's patented technology is a quantum leap beyond traditional motion sensing diagnostics tools.

Whereas existing diagnostic tools use vibration sensors or other signals, enVision creates digital traces of all sets of events pertaining to the automated or manufacturing processes. enVision solution LISTENS to the rhythm of machine and automated operations;

**ILLUMINATES** untapped and currently invisible process data to pinpoint possible problem areas before a critical failure; and

**TRANSFORMS** how systems' operational and quality performance is measured and managed.

**CAPTURING THE HEARTBEAT OF AUTOMATION:** enVision monitors and records every automated motion and process in real-time.

enVision actually acts as an EKG of an automated system – comparing the actual process performance against ideal (design intended) cycle time to gauge the health of the system.

**Beet Analytics Technology** brings the power of digital technology and advanced knowledge of factory automation together, creating a powerful Automation Intelligent System, enVision™.

**enVision** demystifies the industrial operations by digitizing each automated process down to every minute detail and presents it in a simple and intuitive way.

**enVision** enables true Preventive Maintenance to minimize downtime, improve production throughput and achieve faster problem solving.

**enVision** creates a competitive advantage by addressing key operational challenges including:

Provides accurate real-time and historical machine and process performances information to the right user at the right time. Enables proactive preventive maintenance by highlighting potential problem areas and providing prioritized list of "**Hotspots**" in the manufacturing and automation processes.

Enables all users to monitor and analyze the system performance anywhere via web.

Delivers high return-on-investment by increasing throughput, reducing machine downtime and achieving faster root-cause analysis.





# What's New 3.6

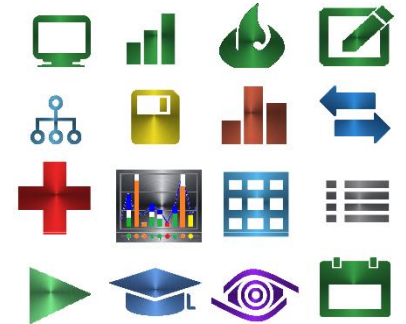


# More Information 3.6

## Fully Hyperlinked Document

When opened on a web page or downloaded to a PDF format, this document contains several ways to use hyperlinks to navigate through the document:

- In the upper header, the BEET logo and the Sectional Icons can be used to jump to the Table of Contents (BEET icon) or the Sectional Contents page (📄).
- The Sectional Content Page consist of the Main Sections of this manual. Simply Click on one of the Icons or the Title below, to go to that section.
- The Sectional Contents icons are located in the upper header.
- On some of the section, the large pictures have active hyperlinks that will allow you to jump to the section related to the button you have select. On the Cycle View page below, all the buttons on that picture will have a hyperlink to the selected section. Hover the cursor over the picture below to see the available buttons that will take you to the corresponding sections.



## Sectional Content 3.6



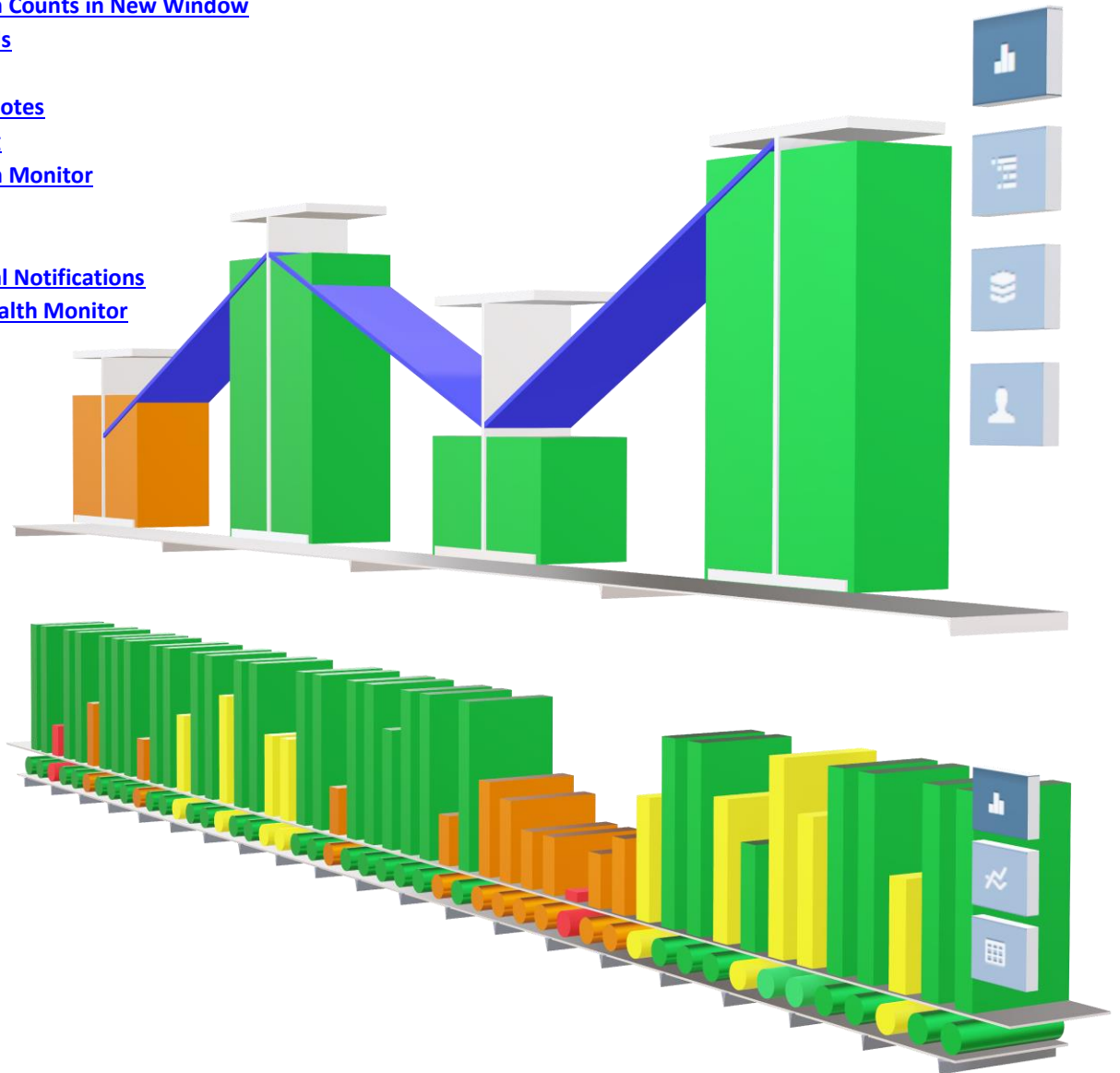
- [Navigation](#)
- [Cycle View Browser](#)
- [Baseline Editor \(Auto Learn\)](#)
- [Cycle View Evaluation Module](#)
- [Smart Swap](#)
- [Cycle History](#)
- [Production Counts in New Window](#)
- [Dashboards](#)
- [Hotspots](#)
- [enVision Notes / Notes in Cycle View](#)
- [Scheduling](#)
- [Production Monitor](#)
- [Reporting](#)
- [enSight](#)
- [Conditional Notifications](#)
- [System Health Monitor](#)



## Software Application 3.6

enVision features many helpful tools to help maximize productivity. The following section describes those features in detail, as well as giving instruction on how to use them.

- [Navigation](#)
- [Cycle View Browser](#)
- [Baseline Editor \(Auto Learn\)](#)
- [Cycle View Evaluation Module](#)
- [Notes in Cycle View](#)
- [Cycle History](#)
- [Production Counts in New Window](#)
- [Dashboards](#)
- [Hotspots](#)
- [enVision Notes](#)
- [Scheduling](#)
- [Production Monitor](#)
- [Reporting](#)
- [enSight](#)
- [Conditional Notifications](#)
- [System Health Monitor](#)

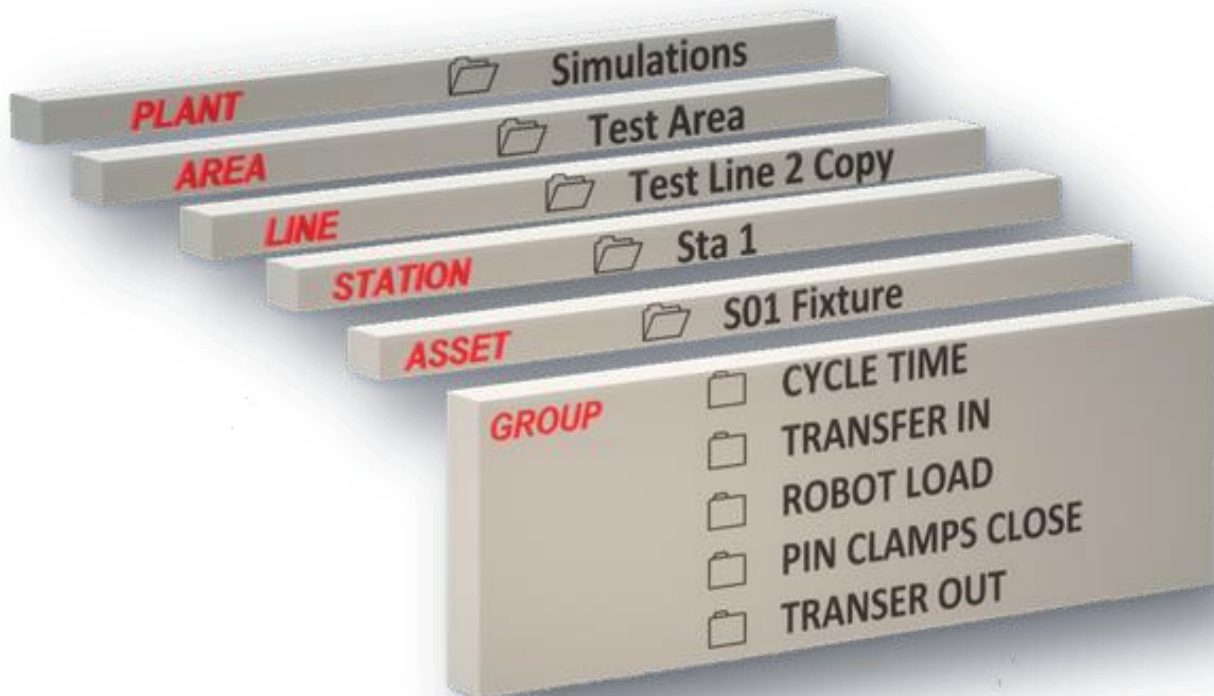


## Navigation 3.6



This section, Navigation will go through the instructions of how to navigate through the enVision Browser via the Object Tree, Cycle View Browser, and various controls of enVision.

- [Navigation](#)
- [Plant Navigation](#)
- [Main Tree Object and Description](#)
- [How to Navigate with enVision](#)
- [Top Navigation Bar](#)
- [Main Tree Navigation](#)
- [Object String Navigation](#)
- [Object Tree](#)



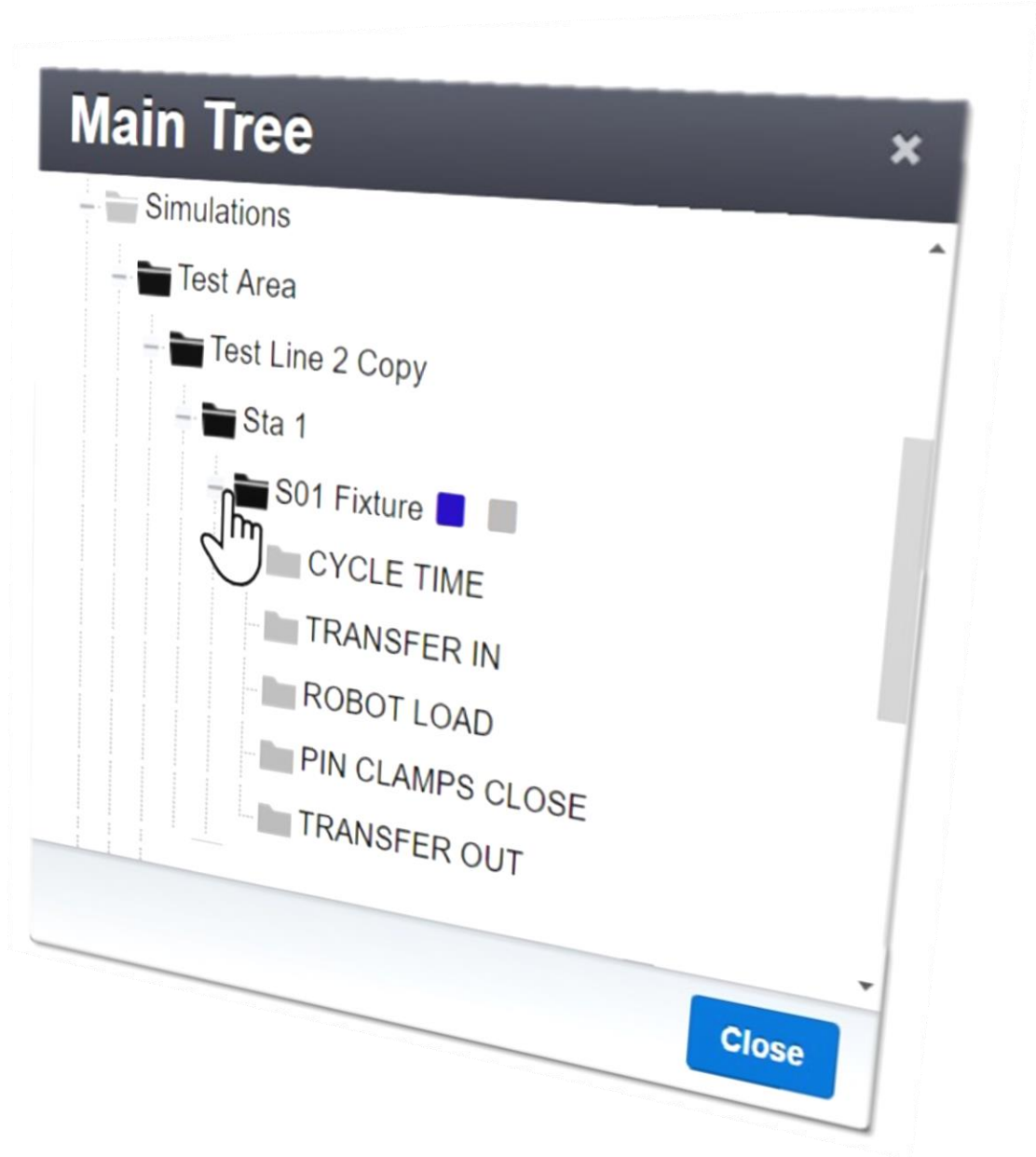
## Plant Navigation 3.6

In enVision, 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.

See [Main Tree Object and Description](#)

- [How to Navigate with enVision](#)
- [Top Navigation Bar](#)
- [Main Tree Navigation](#)
- [Object String Navigation](#)
- [Object Tree](#)
- [Settings](#)
- [About \(enVision 3.6\)](#)



## Main Tree Object and Description 3.6

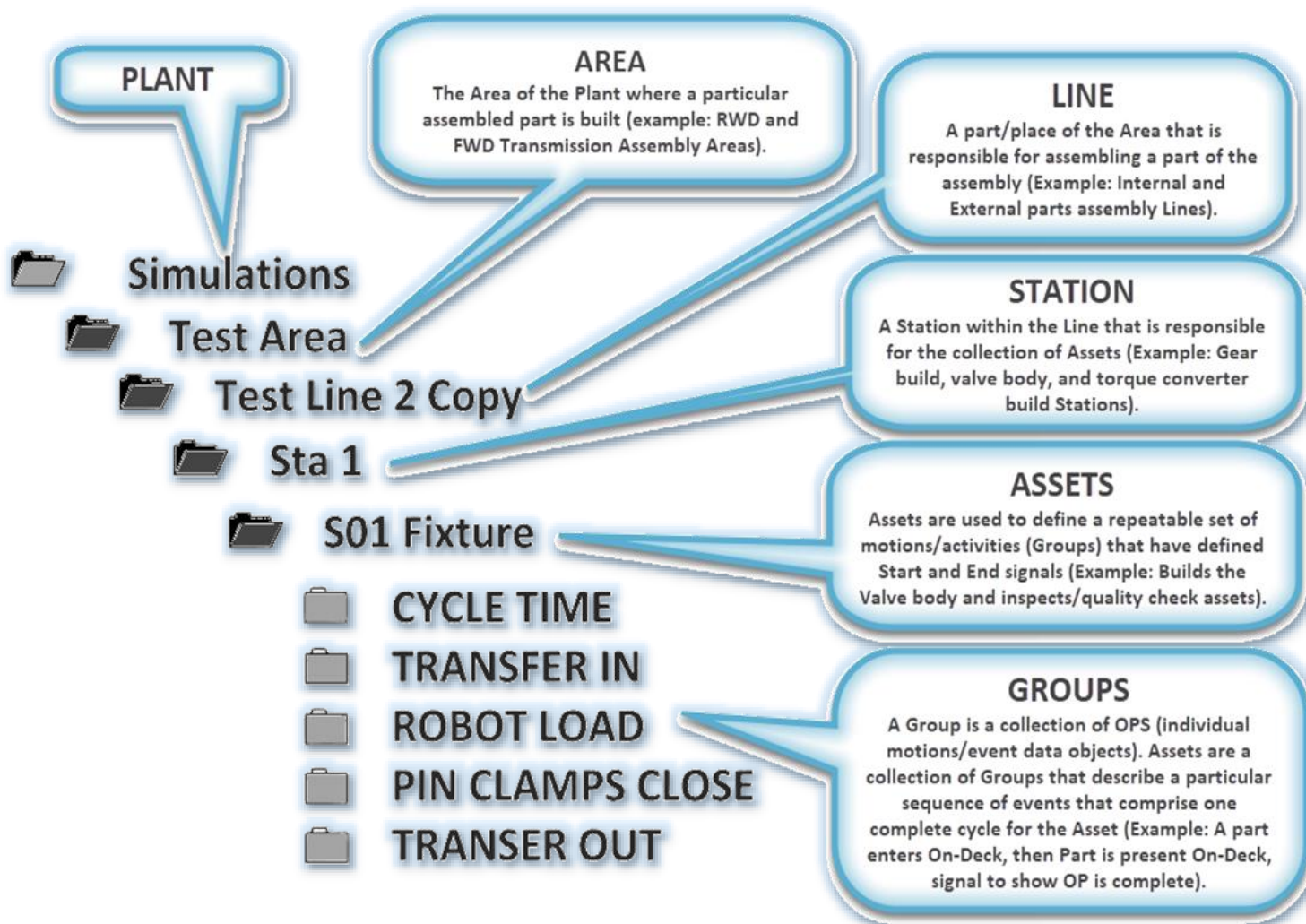
**AREA** The Area of the Plant where a particular assembled part is built (example: RWD and FWD Transmission Assembly Areas).

**LINE** A part/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).

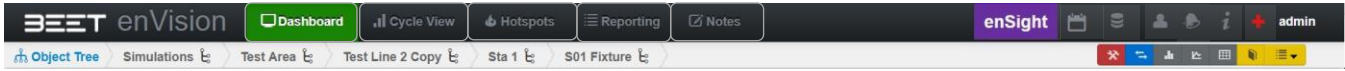
**GROUPS** A Group is a collection of OPS (individual motions/event data objects). Assets are a collection of Groups that describe a particular sequence of events that comprise one complete cycle for the Asset (Example: A part enters On-Deck, then Part is present On-Deck, signal to show OP is complete).



# How to Navigate with enVision 3.6



Navigating to the area of your plant you would like to monitor can be done at any time using the top navigation bar in the enVision browser. Navigate to any object to view in depth critical performance data. If you are reopening, it may return to the area of the object tree you were previously viewing. If not, then it will open to the Dashboard with only the **Object Tree**. Select the **Object Tree** Icon to proceed.



**enVision** Clicking on either the BEET or enVision icon will take you to the opening home page.

**Dashboard** The [Dashboards](#) tab will open the Dashboard section of enVision including the Dashboard and User Dashboard section.

**Cycle View** The Cycle View tab will open the enVision [Cycle View Browser](#).

**Hotspots** The Hotspots tab will open the enVision [Hotspots](#) section.

**Reporting** The Reporting tab will open the enVision Reporting module.

**Notes** The Notes tab will open the enVision Notes Module.

**enSight** The **enSight** tab will open the enSight Module in a new window.

**Scheduling** The Scheduling button will open the Scheduling module.

**Admin** The Admin button will open the Administrator Module.

**Setting** The Setting button will open a Settings window where you can update the User password and to Log out of the **enVision** application.

**i** The i button (About) will open an About window which will contain the information ( Release Code, DLL Version, Smart Tag Count, Operation Tag Count, Asset Count, Analog Tag Count, Group Count, Server ID, License ID, License Status, and Enabled Features ) about the currently logged on enVision application.

**+** This + button (System Health) open the system health module. In this module you can view the stats regarding to the health and condition of the EAS and EDC.

**admin** This is a display tab of the current logged in user.

**Debugging (Admin)**

**Production Monitor**

**PM/Average Cycle**

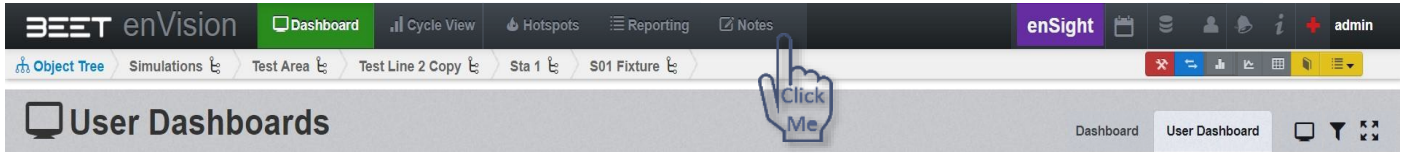
**Production Counts in a New Window**

**Bookmark**

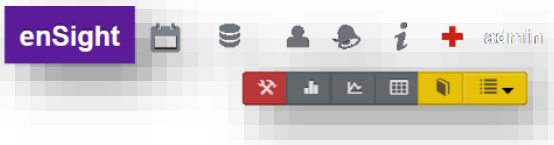
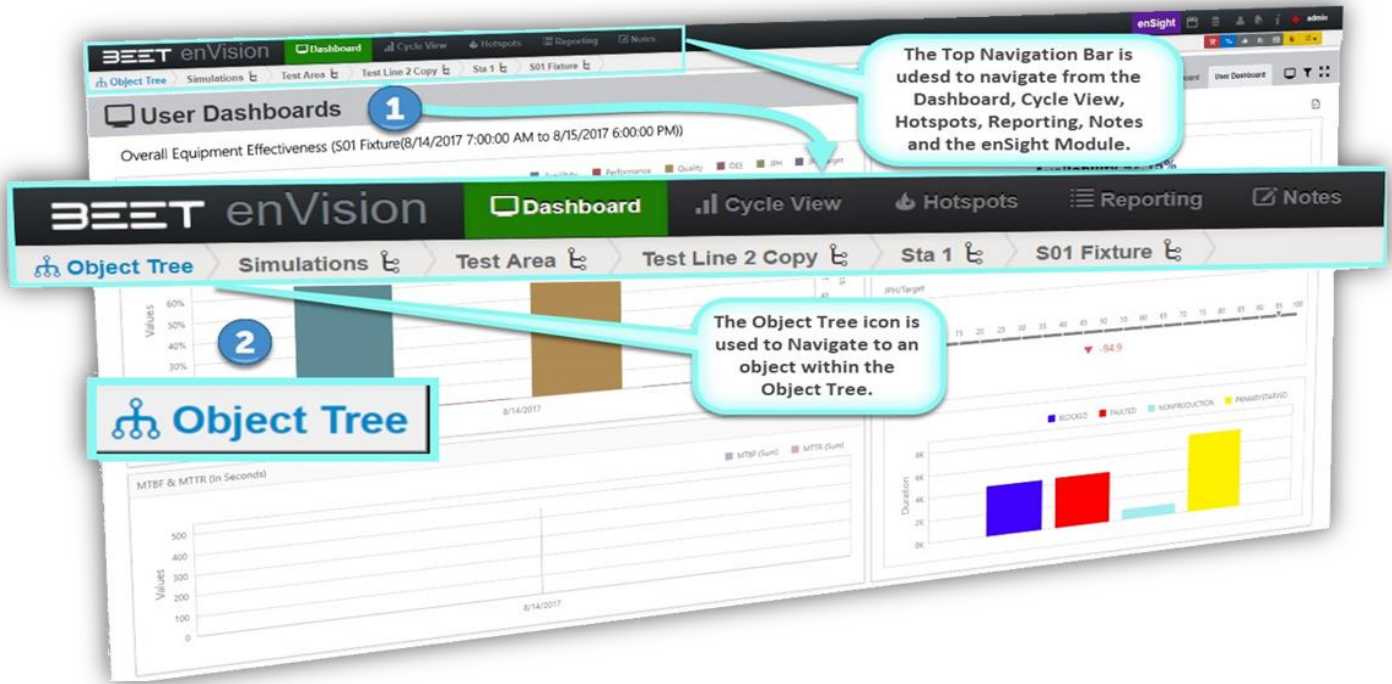
**Display Bookmarks**



### Top Navigation Bar 3.6




When first opening enVision, and navigating to a selected object, it will open to the Dashboard window. The Top Navigation Bar can be found at the top of the enVision browser.




Many of the icons in the upper right-hand side of the browser, will allow the user to navigate to another module within enVision. These are the Scheduling, Admin, Conditional Notifications and System Health. In the lower grouping of icon buttons there is the Debugging, Production Monitor, PM Average Cycle, and Productions Counts icon buttons.

They will also have a bookmark button and a bookmark display button.

#### Bookmark Icons


 The bookmark icon will allow a user to mark the current location with an easy to use bookmark.

 The Display Bookmark icon will display all the bookmarks in the logged-on version of enVision.



### Main Tree Navigation 3.6

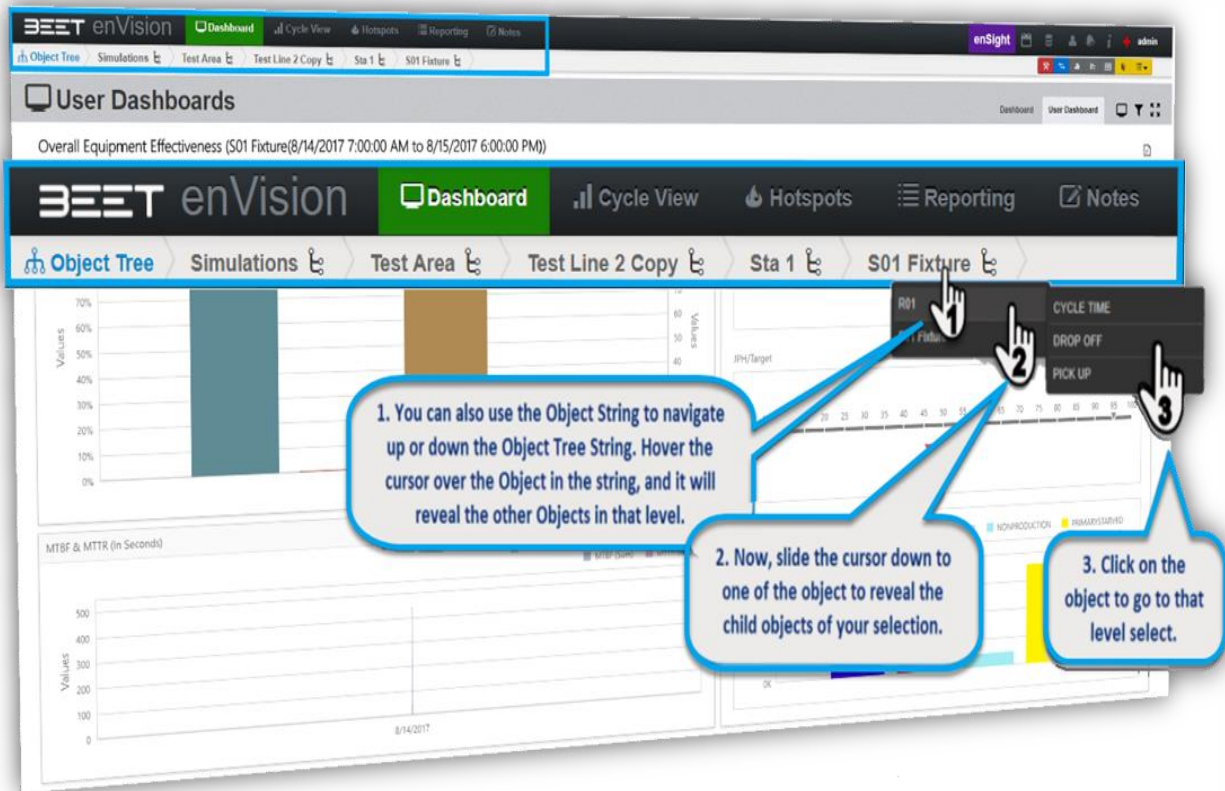
Click **Object Tree** on the navigation bar to open the **Main Tree** window to navigate to the Object desired.

You can drill down to the object you desire by clicking on the  sign. This will reveal the lower level objects.



### Object String Navigation 3.6

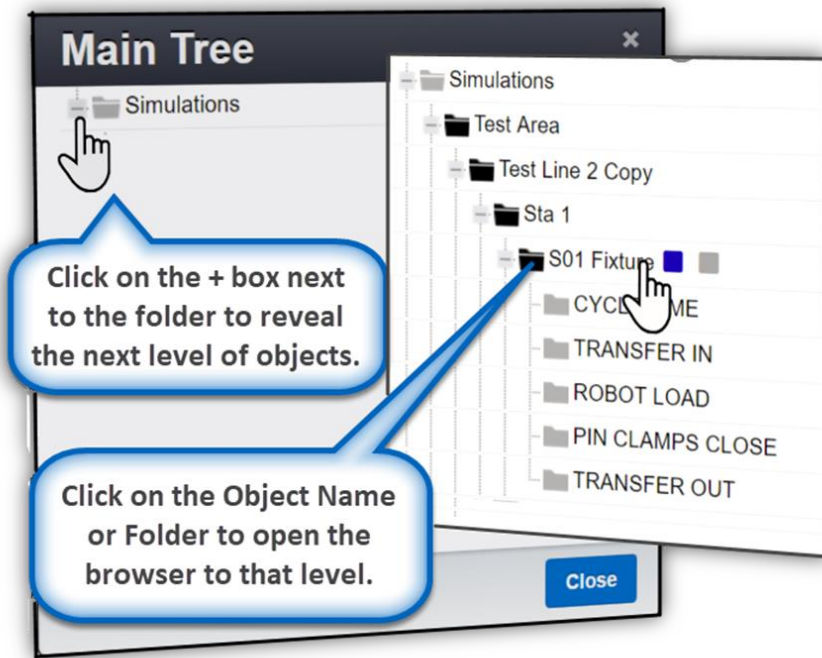
You can also navigate by using the Object String next to the Object Tree Icon. **Click** on the **Object label Icon (S01 Fixture)** to open a window to proceed to the next level down. Or hover over an Object label and a drop-down option will appear to go to the next level down.



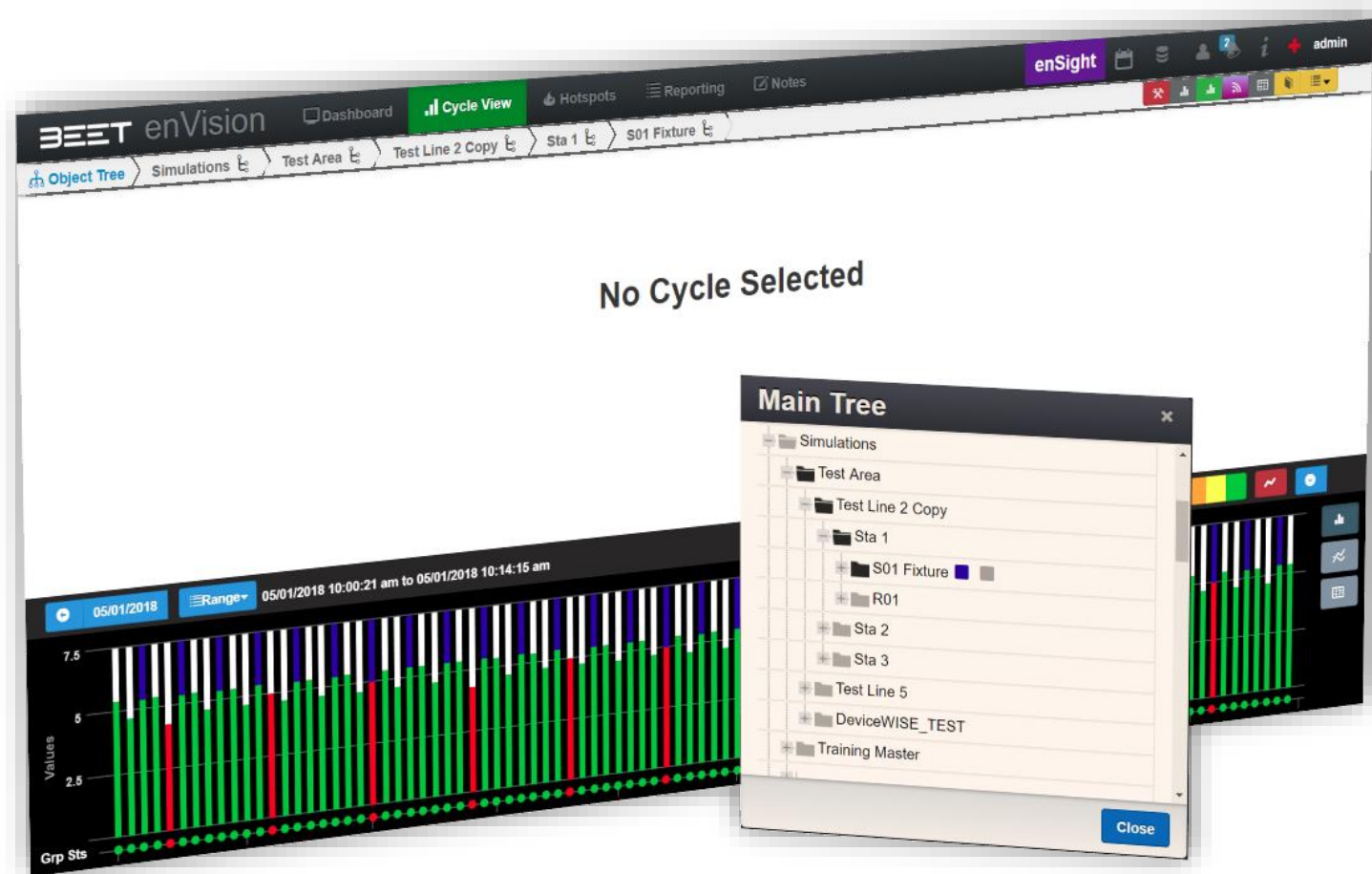
## Object Tree 3.6

Select the  box next to each item 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.


Click on the Cycle View Tab at the top of the browser to open the cycle view. Once selected, the Cycle view browser will open with the **Last 100 cycles** in the History Display Panel, displayed for that object.

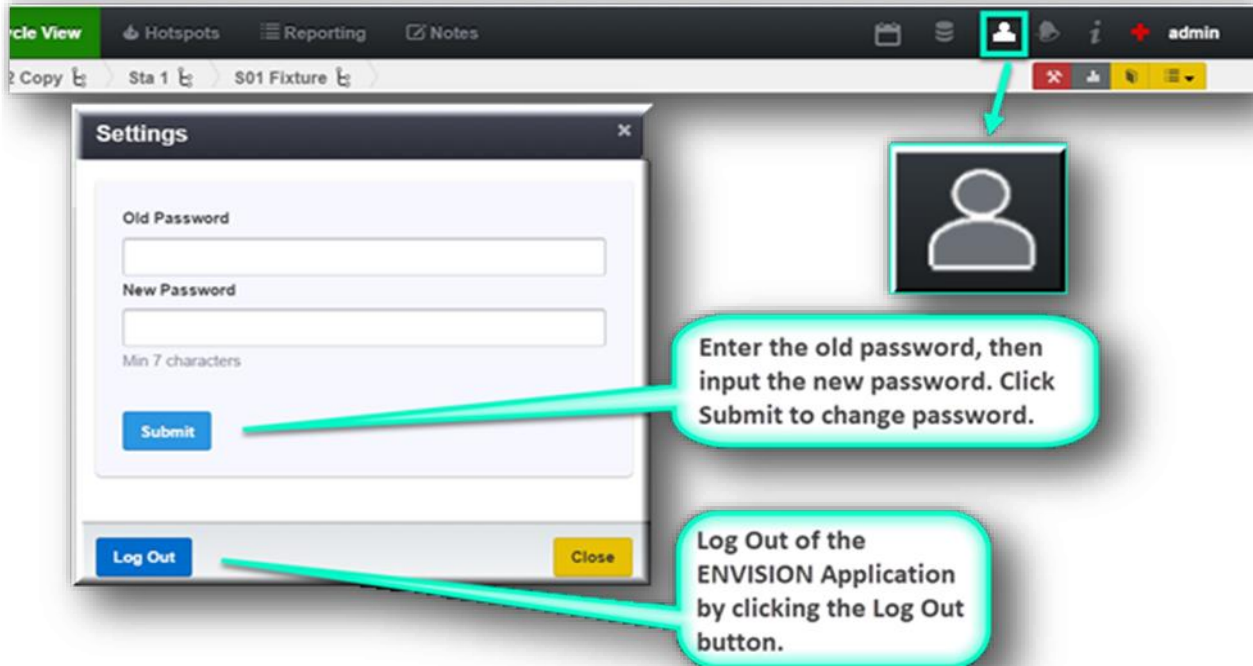


The upper graph will be empty (No Cycle Selected), until you select a cycle to view. Simply select a cycle to view by Clicking on the lower graph (History Display Panel) in the Cycle view browser.



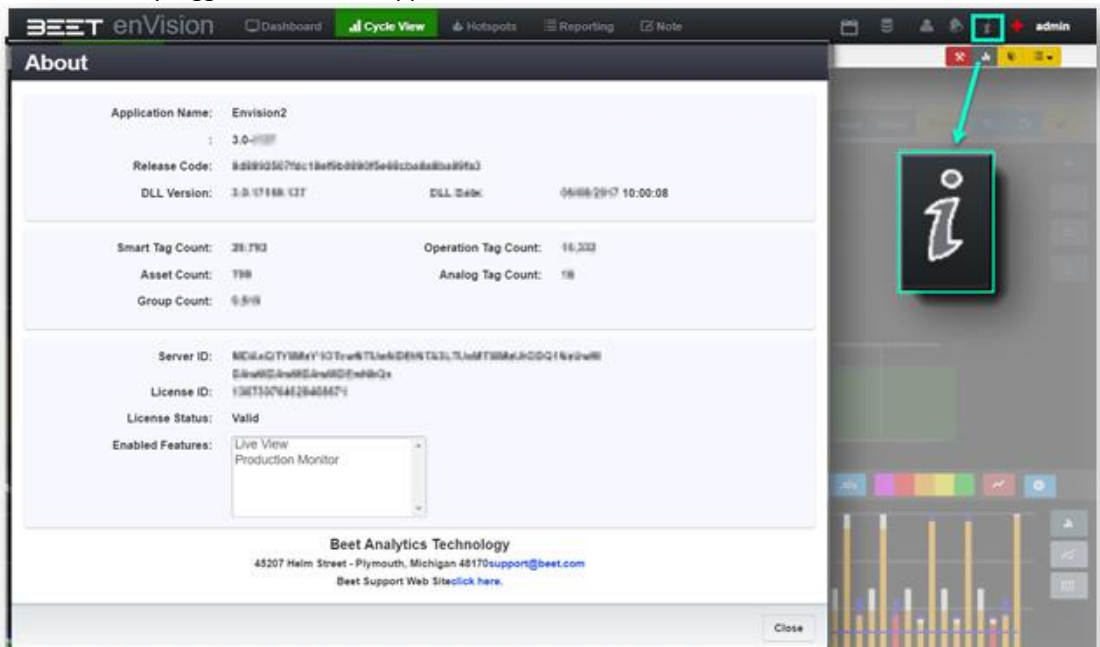
## Settings

The Settings window within the **enVision** browser can be opened by clicking on the person icon in the upper right-hand corner between the Admin and About  buttons. Click on it to access the ability to change your password and log out of the **enVision** browser.




## About enVision 3.6

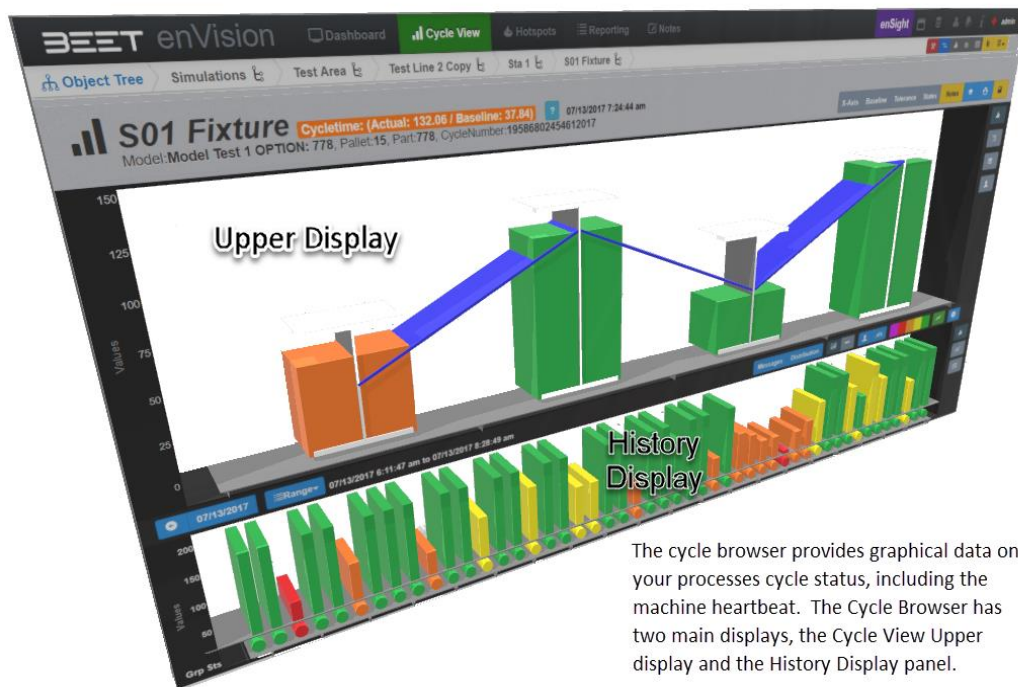
The *i* button (About) will open an About window which will contain the information ( **Release Code, DLL Version, Smart Tag Count, Operation Tag Count, Asset Count, Analog Tag Count, Group Count, Server ID, License ID, License Status, and Enabled Features** ) about the currently logged on enVision application.



# Cycle View Browser 3.6

 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.

- [Opening Cycle View](#)
- [Cycle View Breakdown](#)
- [Selecting a Cycle](#)
- [View Types](#)
- [Object Properties](#)
- [Distribution – Cycle View](#)
- [Messages \(Cycle View\)](#)
- [Smart Swap](#)



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.

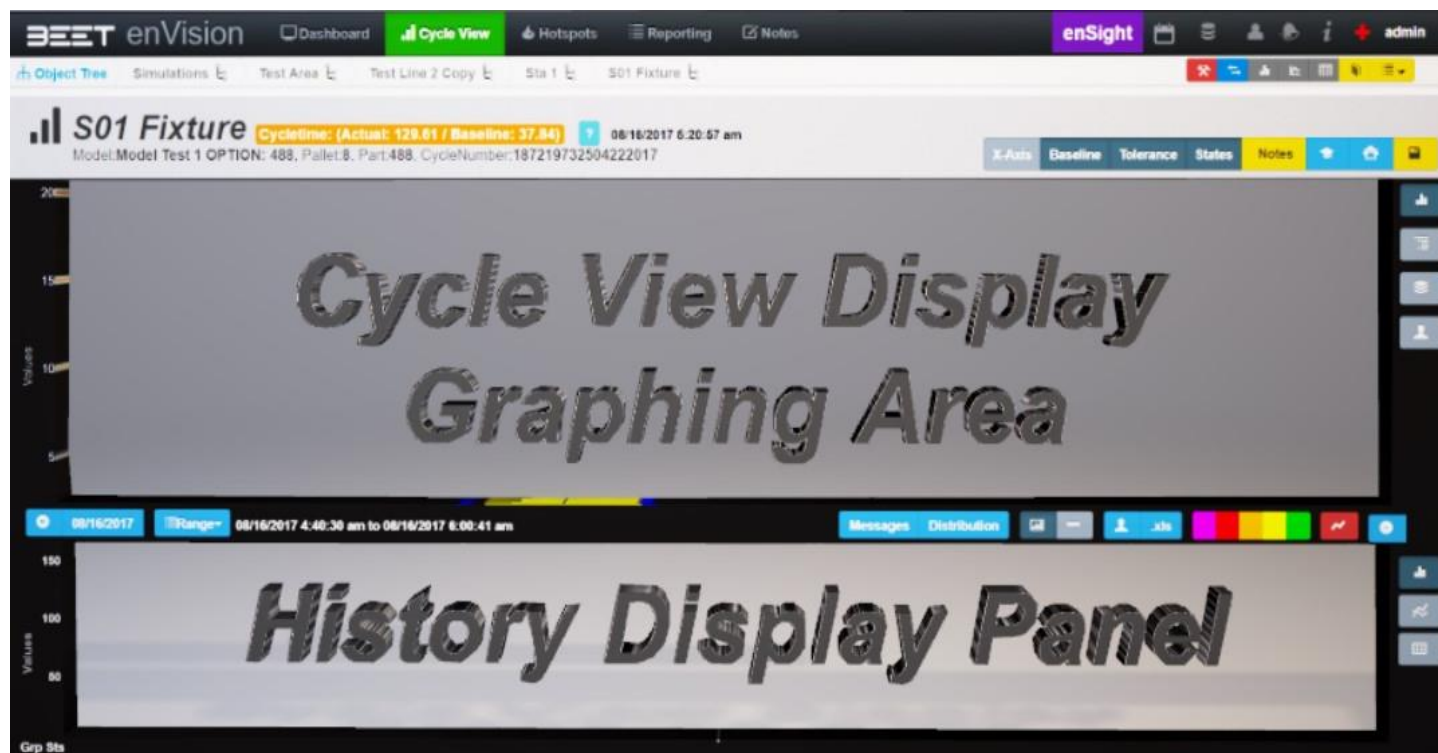


## Opening Cycle View 3.6

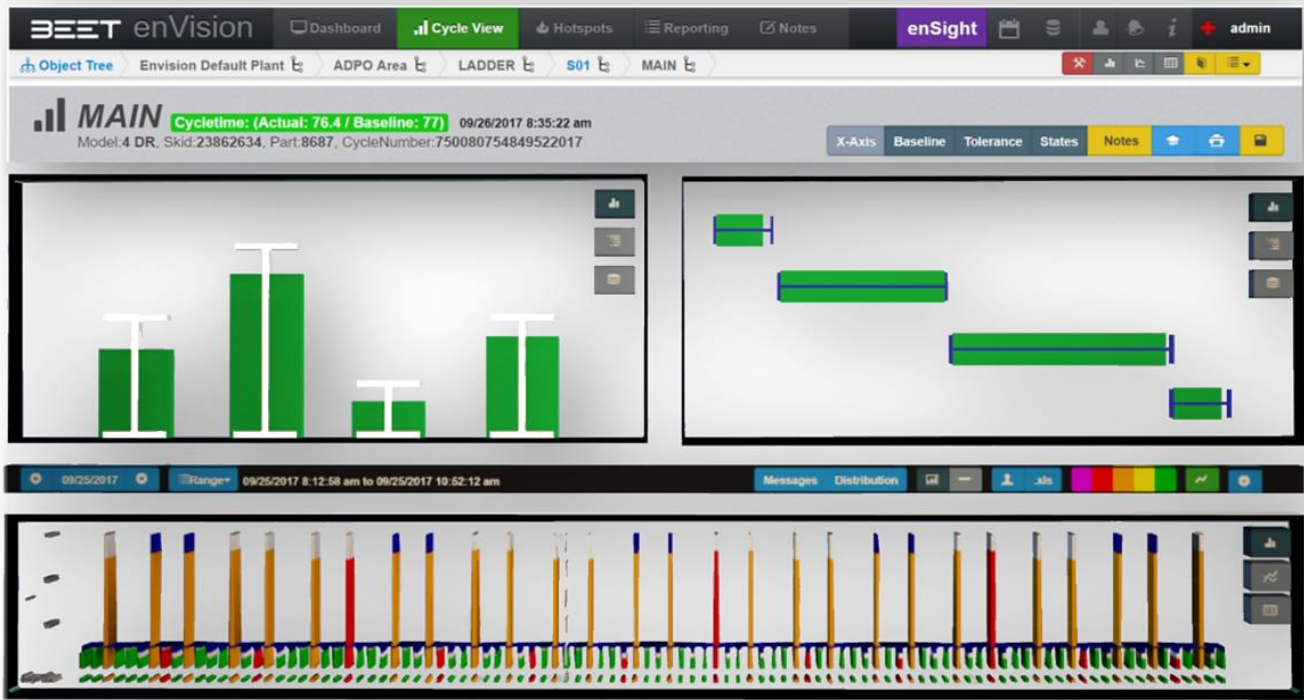
Make sure you have the tab selected on the **enVision** top menu.



You can then access the cycle browser by using the **Main Tree** window to navigate to your desired object. **Click** on the **+ -** sign beside the object. This will reveal the lower level objects. Proceed until you reach the object desired. **Click** on the object and the Cycle Browser will open. After selecting the desired object, the cycle browser will launch to this browser. A cycle has not been selected yet, so the upper graph will be empty and say **No Cycle Selected**.



# Cycle View Breakdown 3.6



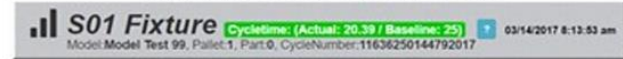
Top Navigation Bar



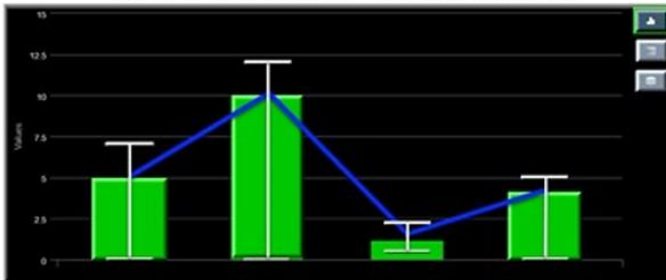
Object Tree Navigation String



Object/Model Properties Bar



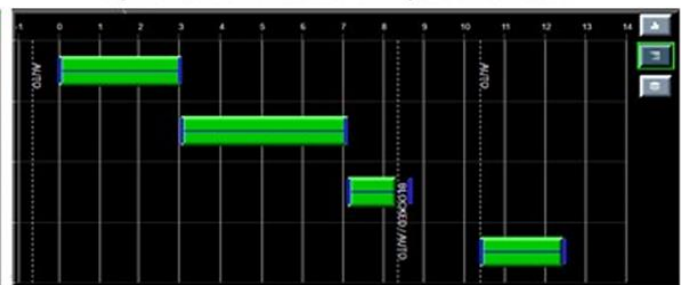
Cycle View Browser - Heartbeat Mode



Day View Navigator



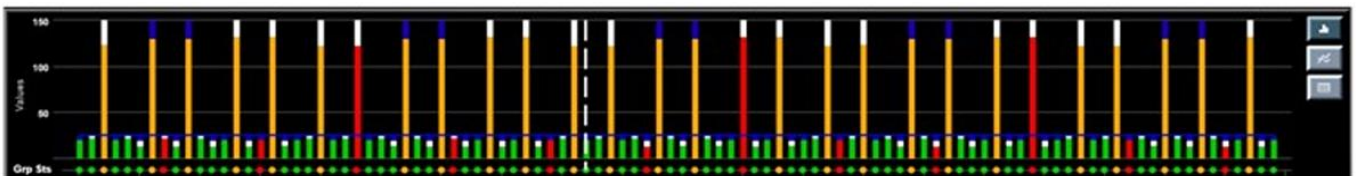
Cycle View Browser - Sequence Mode



History Filter Control Panel



History Display Panel



## Selecting a Cycle 3.6

To Select a cycle, go to the bottom of the cycle browser, known as 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 that cycle. After you click on it, a white line will appear above the selected cycle, and the upper window will update with the selected cycle.





## View Types 3.6



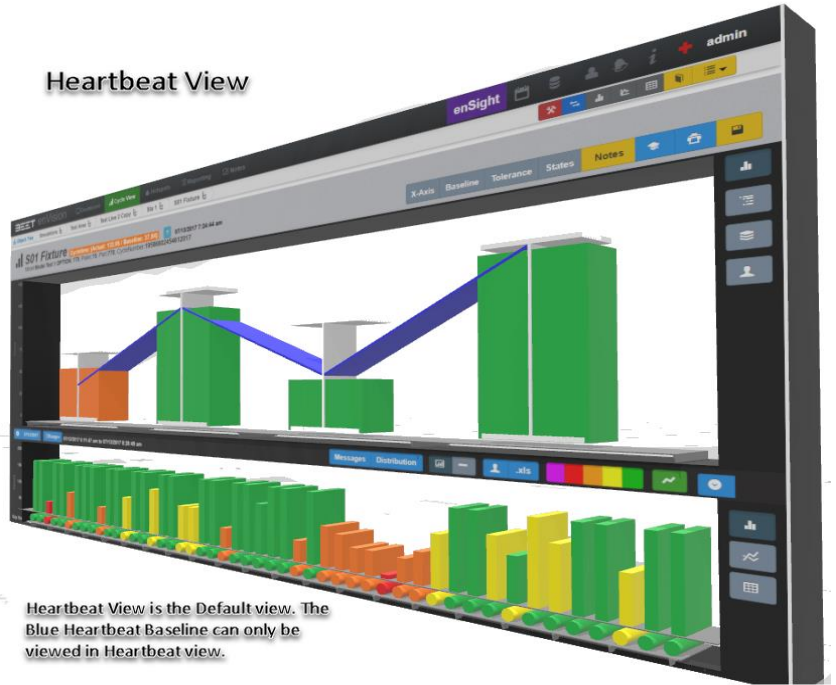
Located to the right of the Upper Graphing area, are 4 buttons to change the views to either Heartbeat or Sequence and to change the User Parameters graph. The fourth button is to open the Cycle Compare window.



Heartbeat View is the Default view. The Blue Heartbeat Baseline can only be viewed in Heartbeat view.



Heartbeat View



Heartbeat View is the Default view. The Blue Heartbeat Baseline can only be viewed in Heartbeat view.

**Sequence View** contains state labels which can only be seen in the sequence view.



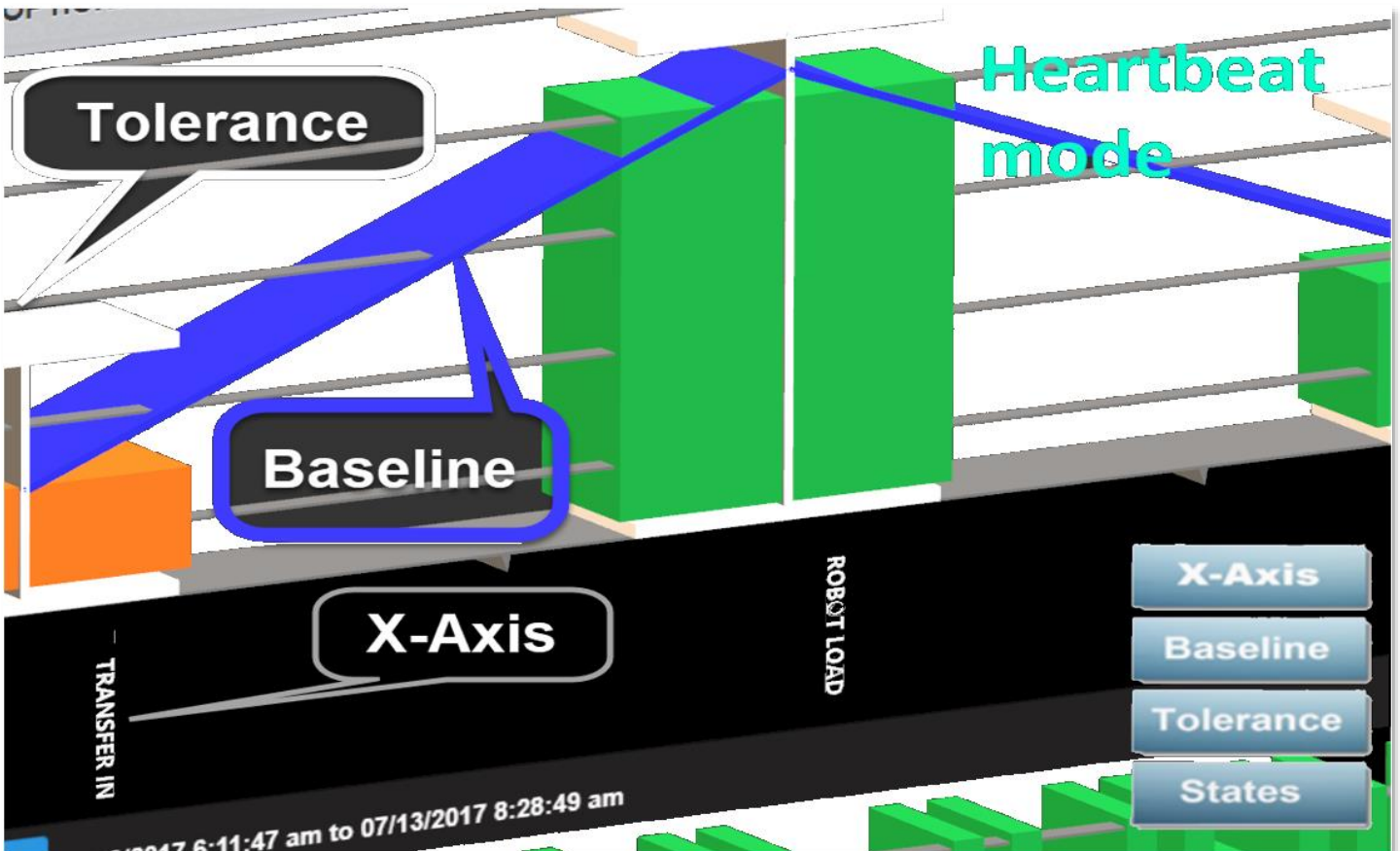
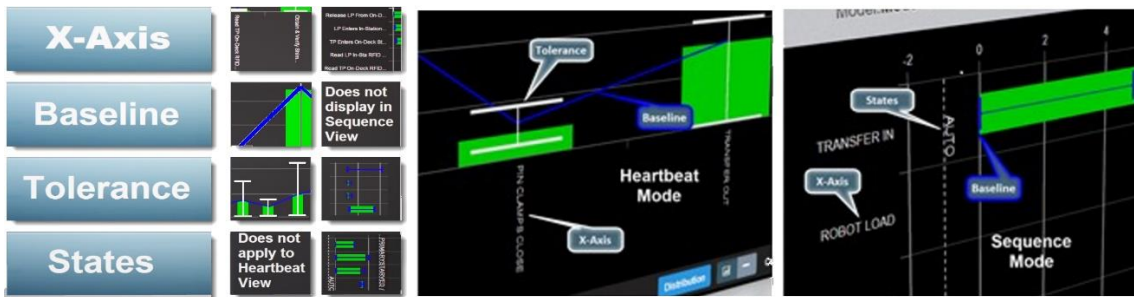
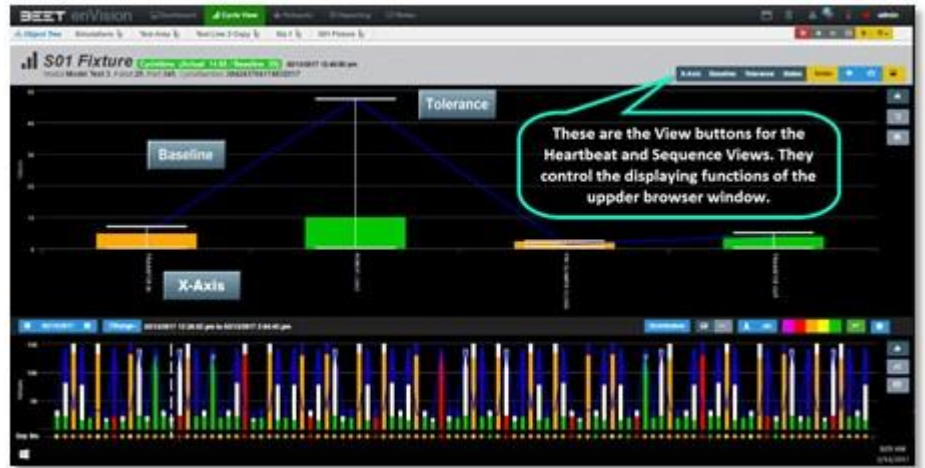
# User Parameter History

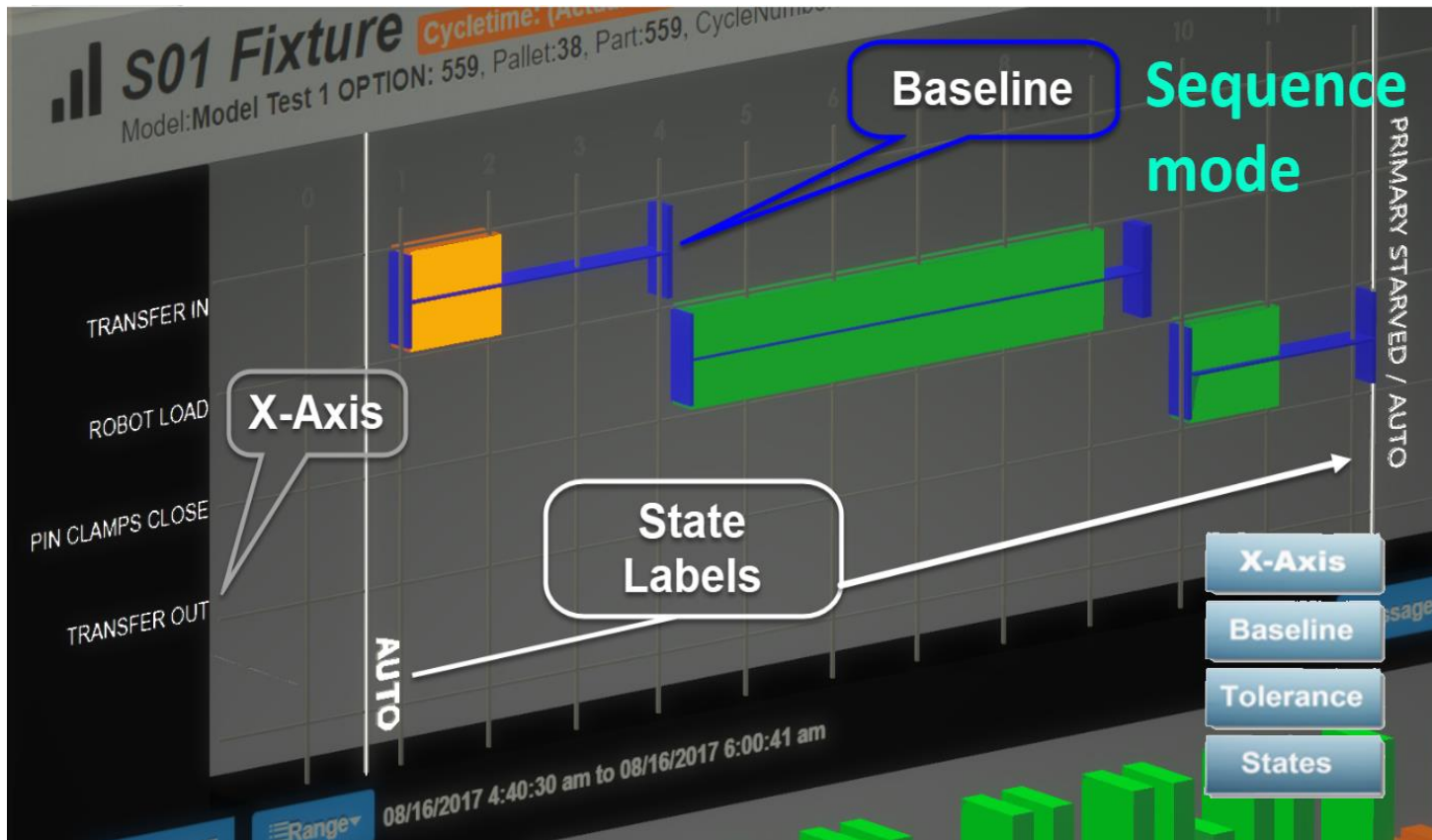


## View Options

Below is a list of View options you can apply to your cycle view. These buttons are in the top right corner of the cycle browser, they are Cycle view tabs. X-Axis, Baseline, Tolerance, and States. The **Baseline 2** can only be viewed in the Heartbeat view as the **States 4** tab is only active in the Sequence view as shown in the figures below.

Below is a list of options you can apply to your Cycle view.

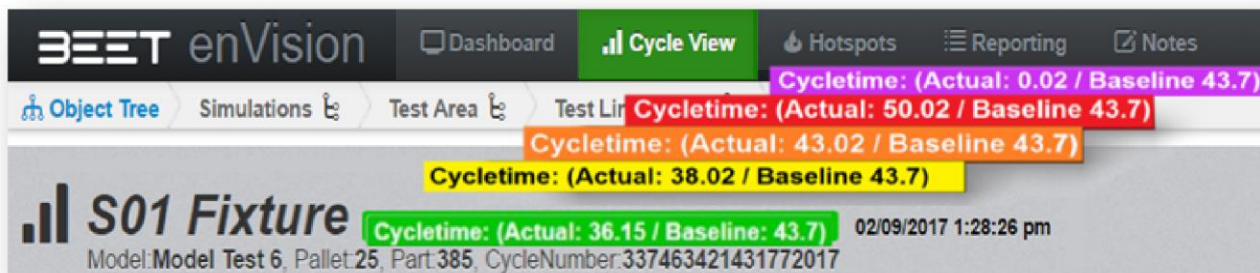




### Object Properties 3.6

The Object Properties are located in the top left of the cycle browser. **Model, AGV, Part, CycleNumber, Cycle time, and time data** can all be located here. The highlighted Cycletime is dependent on the status of the cycle displayed. It can be **Green (Good)**, **Yellow (Watch)**, **Orange (Warning)**, **Purple ( Missing )**, or **Red ( Fault )**.

- Good / **Green** -Normal, Optimum Performing Range
- Watch / **Yellow** -Watch, Not Optimum but within defined Tolerance window.
- Warning / **Orange** -Warning, Outside Defined Tolerance Window
- Fault / **Red** -Fault
- Missing / **Purple** -Missing Data due to Stoppage or Missing Input/Output.

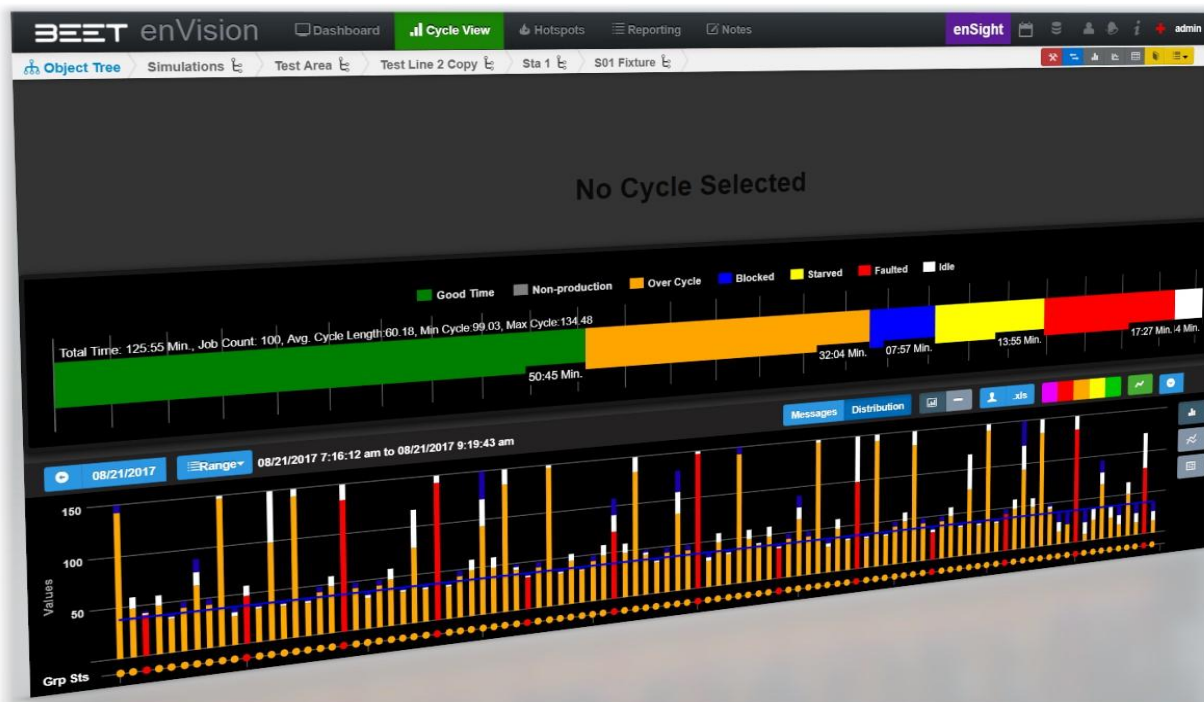
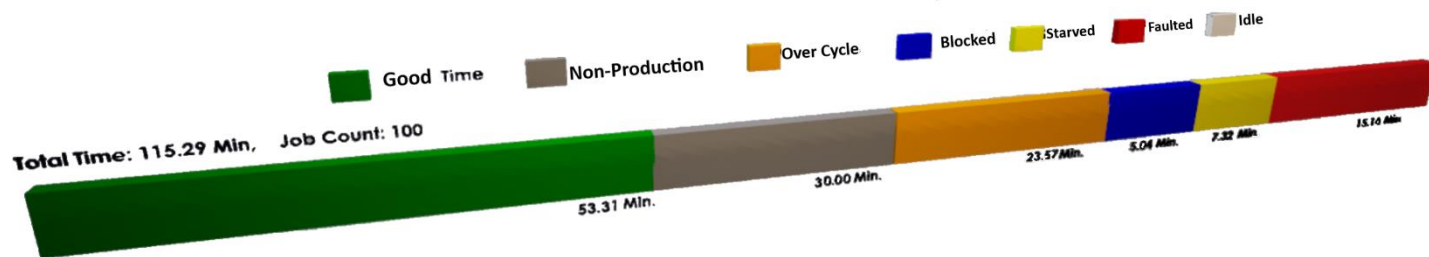
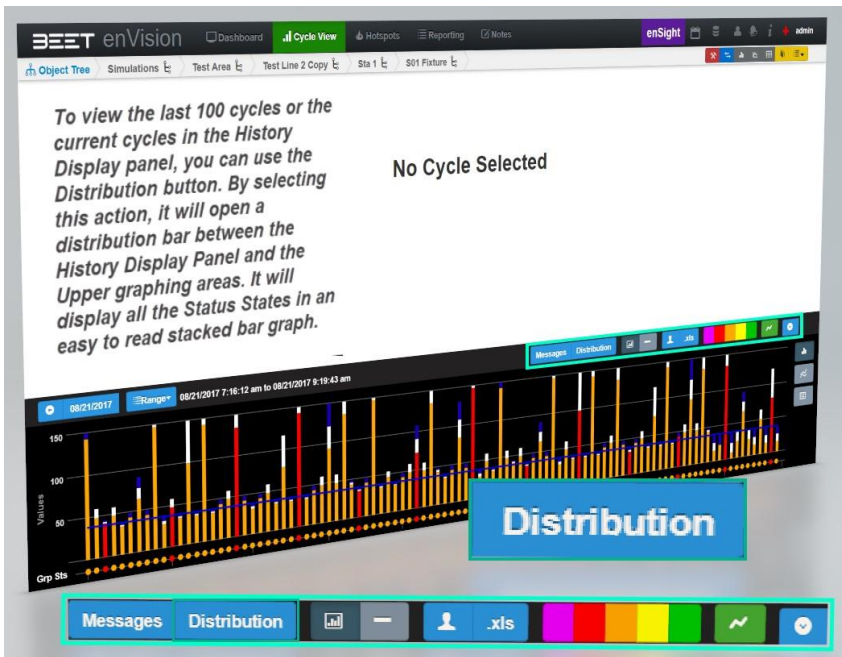


## Distribution – Cycle View 3.6

### Distribution

To view the last 100 cycles or the current cycles in the History Display panel, you can use the Distribution button. By selecting this action, it will open a distribution bar between the History Display Panel and the Upper graphing areas. It will display all the Status States in an easy to read stacked bar graph. It displays Good Time, Non-production, Over Cycle, Blocked, Starved, Faulted and Idle. It can also perform the same functions on a selection of cycles.

**Note:** This function does not apply to using the zoom feature.



## Messages (Cycle View) 3.6



In the Cycle View browser, there is the Message module. It can be opened by selecting the Message button that lies in the middle of the browser, to the left of the History Filter Control panel (Distribution button). Selecting this will open a window to view the current messages based upon the cycles in the History Display Panel.



**Messages** x

Message

Code ↑ ▼

🔒 📄 🔍 Search...

Message	Start	End
Q	Q	Q
Code: Alarm		
SYS S12 ALARM-SysMsg[24].11	2017-09-05...	2017-09-05...
SYS S12 ALARM-SysMsg[24].11	2017-09-05...	2017-09-05...
SYS S12 ALARM-SysMsg[24].11	2017-09-05...	2017-09-05...
SYS S12 ALARM-SysMsg[24].11	2017-09-05...	2017-09-05...
SYS S12 ALARM-SysMsg[24].11	2017-09-05...	2017-09-05...
SYS S12 ALARM-SysMsg[24].11	2017-09-05...	2017-09-05...
SYS S12 ALARM-SysMsg[24].11	2017-09-05...	2017-09-05...
Code: Faulted		
SYS S01 PART OUT OF POSITION-SysMsg[18].0	2017-09-05...	2017-09-05...
SYS S01 PART OUT OF POSITION-SysMsg[18].0	2017-09-05...	2017-09-05...
SYS S05 PART OUT OF POSITION-SysMsg[18].4	2017-09-05...	2017-09-05...
SYS S02 PART OUT OF POSITION-SysMsg[18].1	2017-09-05...	2017-09-05...
SYS S10 R14 ROBOT FAULT-SysMsg[12].9	2017-09-05...	2017-09-05...
SYS S02 MOTION FAULT-SysMsg[19].1	2017-09-05...	2017-09-05...

🔍 Close

# Smart Swap 3.6



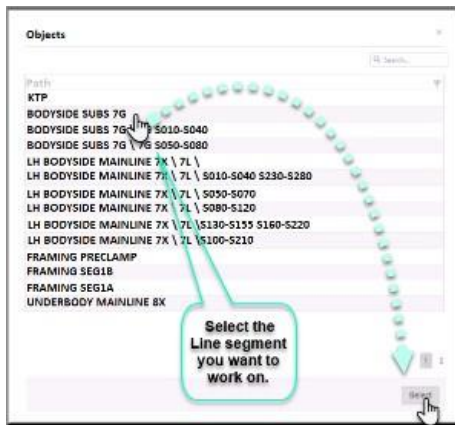
## Opening Smart Swap



Open your Google Chrome app and login to enVision by using the address. Go to the top menu bar and click on Smart Swap icon on the right.



## Selecting an Object



After selecting the Smart Swap Icon, the Object screen will show up. Click the Line segment you want to work on, or click the **Area** (KTP) to work on all enVision zones. Click on the "Select" button at the lower right-hand corner. In a few moments, the data will be displayed in a new Smart Swap window. In this window, the time period defaults to the current shift, but you can select another shift.

**enVision Smart Swap**

Shift: 09/07/2017 Night

Asset: KTP:BODYSIDE SUBS 7G

Asset	Recommended Cycles / Actual Cycles							Fault Minutes	Fault Minutes This Shift	Highest Warn %	Model	Average	Warn %							
	GBSD	Feed Stock	Die	Punch	Magazine	Setter	Parts						1st Shift	2nd Shift	3rd Shift	4th Shift	5th Shift	6th Shift	7th Shift	8th Shift
7G-010-11	100000 / 28076	100000 / 28076	300000 / 126402	500000 / 427712	0 / 0	0 / 0	0	0	0	CC_R	0	0	0	0	0	0	0	0	0	
7G-020-13	100000 / 18886	100000 / 18886	300000 / 27846	500000 / 58071	0 / 0	0 / 0	40.6	7.1	36.11	CC_L	6.83	2.38	7.52	0	0	0	0	0	11.88	
7G-020-16	100000 / 4762	100000 / 4762	300000 / 38914	500000 / 75793	0 / 0	0 / 0	10.7	0	0	CC	0	0	0	0	0	0	0	0	0	
7G-020-17	100000 / 39927	100000 / 39927	300000 / 0	500000 / 0	0 / 0	0 / 0	3.9	0.3	0	CC	0	0	0	0	0	0	0	0	0	
7G-020-11	100000 / 87076	100000 / 87076	300000 / 33408	500000 / 20912	0 / 0	0 / 0	8.7	0	0	CC_R	0	0	0	0	0	0	0	0	0	
7G-030L-1	100000 / 38383	100000 / 39182	300000 / 10039	500000 / 1654	0 / 0	0 / 0	26.6	0.3	0	CC	0	0	0	0	0	0	0	0	0	
7G-030R-1	100000 / 41482	100000 / 41482	300000 / 196779	500000 / 251726	0 / 0	0 / 0	32.5	0.4	0	SC	0	0	0	0	0	0	0	0	0	
7G-040-13	100000 / 84963	100000 / 84963	300000 / 21998	500000 / 208874	0 / 0	0 / 0	0	0	0	CC_R	0	0	0	0	0	0	0	0	0	
7G-055L-1	100000 / 3484	100000 / 3484	300000 / 11481	500000 / 80738	0 / 0	0 / 0	0	0	0	CC	0	0	0	0	0	0	0	0	0	
7G-055R-1	100000 / 42373	100000 / 20725	300000 / 10768	500000 / 81481	0 / 0	0 / 0	0	0	0	CC	0	0	0	0	0	0	0	0	0	
7G-075L-2	100000 / 85168	100000 / 85168	300000 / 23088	500000 / 68110	0 / 0	0 / 0	0	0	0	CC	0	0	0	0	0	0	0	0	0	
7G-075R-2	100000 / 84963	100000 / 84963	300000 / 22848	500000 / 23848	0 / 0	0 / 0	0	0	0	CC	0	0	0	0	0	0	0	0	0	

Shift: 09/07/2017 Night







The Message History or Cycle History can be brought up for any one of the robots.

The screenshot shows the 'enVision Smart Swap' interface with a table of assets. A mouse cursor is hovering over the '7G-020-13' asset, which has opened a 'Message History' dialog box. The dialog box contains a table of messages with columns for 'Fault', 'Message', and 'FaultPercentage'.

**Asset Table Data:**

Asset	GBSD	Feed Stick	Die	Punch
7G-020-13	100000 / 100000 / 59555	100000 / 100000 / 59555	300000 / 300000 / 278436	500000 / 500000 / 59551
7G-020-17	100000 / 100000 / 59555	100000 / 100000 / 59555	300000 / 300000 / 278436	500000 / 500000 / 59551
7G-030L-1	100000 / 100000 / 39312	100000 / 100000 / 39312	300000 / 300000 / 251088	500000 / 500000 / 251088
7G-030R-1	100000 / 100000 / 41422	100000 / 100000 / 41422	300000 / 300000 / 196755	500000 / 500000 / 196755
7G-055L-1	100000 / 100000 / 36856	100000 / 100000 / 36856	300000 / 300000 / 407359	500000 / 500000 / 407359
7G-055R-1	100000 / 100000 / 62297	100000 / 100000 / 62297	300000 / 300000 / 193198	500000 / 500000 / 193198

The Message History or Cycle History can be brought up for any one of the robots. Simply click on the Asset to open a selection box to see the Message or Cycle History.

The user can jump to Cycle View for any of the joints with none-zero % warning cycles.

The screenshot shows the 'View a Cycle of Concern' dialog box. It displays a table with columns for 'Asset', 'Recommended Cycles / Actual Cycles', 'Part #', 'Fault Minutes', 'Highest Warn %', and 'Average' warning percentages for various joints (1st Rvt, 2nd Rvt, 3rd Rvt, etc.). A mouse cursor is pointing to the '3.31' value in the '2nd Rvt' column for asset '7G-020-17'.

**View a Cycle of Concern Table Data:**

Asset	Average	1st Rvt Warn %	2nd Rvt Warn %	3rd Rvt Warn %	4th Rvt Warn %	5th Rvt Warn %	6th Rvt Warn %	7th Rvt Warn %	8th Rvt Warn %	Last Rvt Warn %
7G-020-13	1.88	1.2	1.61	0	0	0	0	0	0	2.81
7G-020-17	3.31	0	3.31	0	0	0	0	0	0	5.97
7G-020L-1	1.92	0	0	0	0	0	0	0	0	0
7G-020R-1	0	0	0	0	0	0	0	0	0	0
7G-055L-1	1.92	0	0	0	0	0	0	0	0	0
7G-055R-1	0	0	0	0	0	0	0	0	0	0

The user can jump to Cycle View for any of the joints with none-zero % warning cycles.

The user can then generate a work order by selecting the Swap to perform.

The screenshot shows the 'enVision Smart Swap' interface with several callouts:
 

- 'Select the Swaps to perform.' points to the 'Generate Workorder' button in the top right.
- 'Click the Generate Work Order button.' points to the 'Generate Workorder' button in the top right.
- 'Review Work Order, then click Save.' points to the 'Save' button in the 'Workorder' pop-up window.

 The 'Workorder' window shows a table with columns for 'Asset', 'Zone', 'Part Task', 'Feed Stick', 'Die', 'Punch', 'Magazine', 'Setter', 'State', 'Created', 'Clear Date', and 'Comments'.



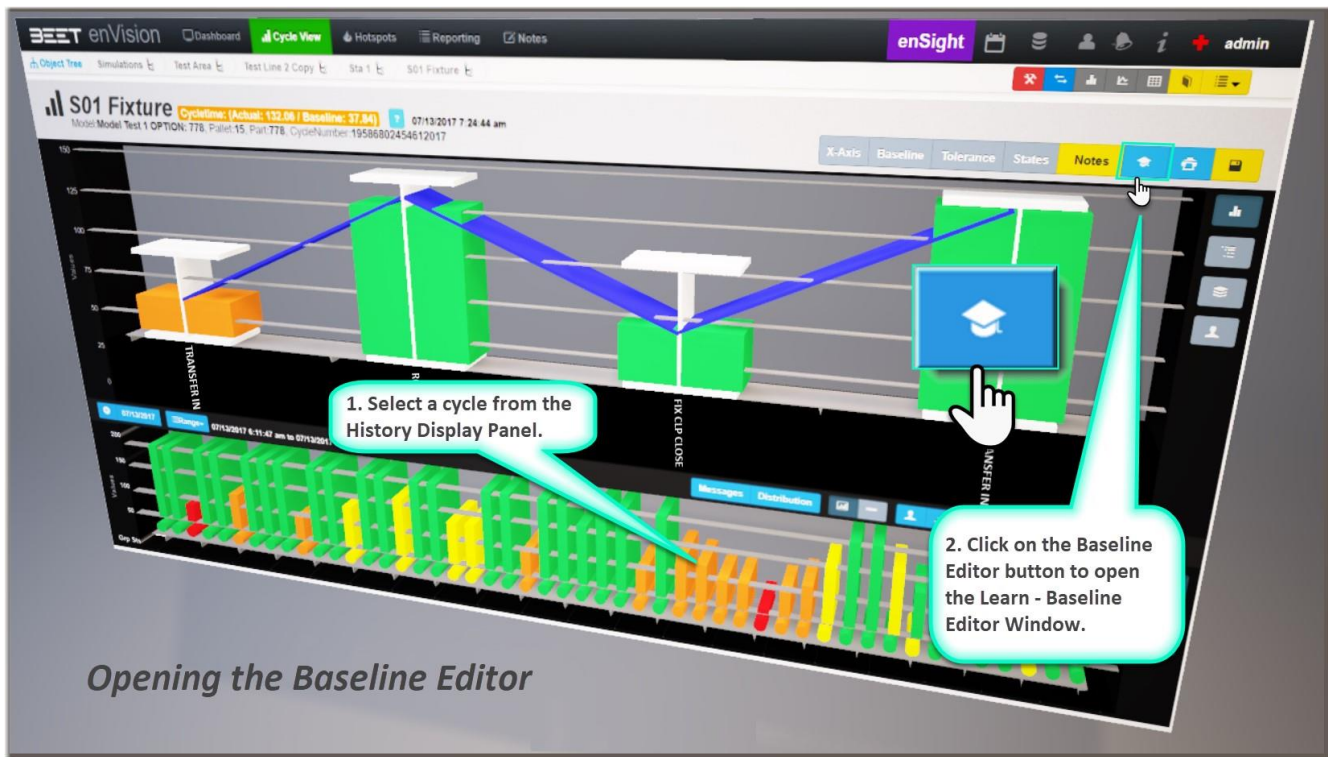
# Baseline Editor (Auto Learn) 3.6



The Learned Baseline Editor is an application/tool within the enVision Cycle browser, that can take a selection of objects at the Asset level and filter the data values to view the baseline data. Within the Learned Baseline Editor, lies a baseline table that you can filter and sort to see the data averages of certain values.

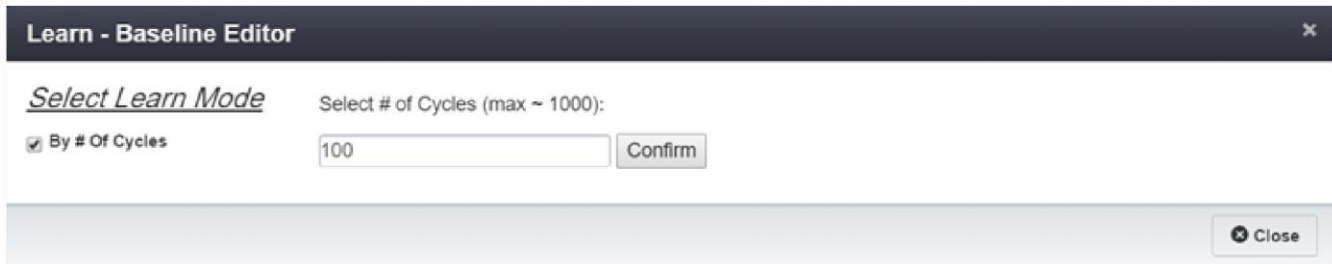
## Opening the Baseline Editor

The Learned Baseline Editor can only be used in the Cycle View browser. Open the Cycle View browser and drill down to an Asset level. In the lower part of the Cycle View browser (History Display Panel). Select a cycle from the History Display Panel. From there, navigate to the upper part of the Cycle View browser, on the upper right above the upper graph window. Select the light blue button with the oxford cap (graduation cap) on it.



*Opening the Baseline Editor*

After selection of the Baseline Editor button, the Learn – Baseline Editor setup window will open. It displays an editing area, Select Learn Mode and Select # of Cycles, where you can select the number of Cycles to display. You can choose up to ~ 1000 cycles if needed. After you select the number of cycles and Learn mode, click on the Confirm button to the left of the edit box.



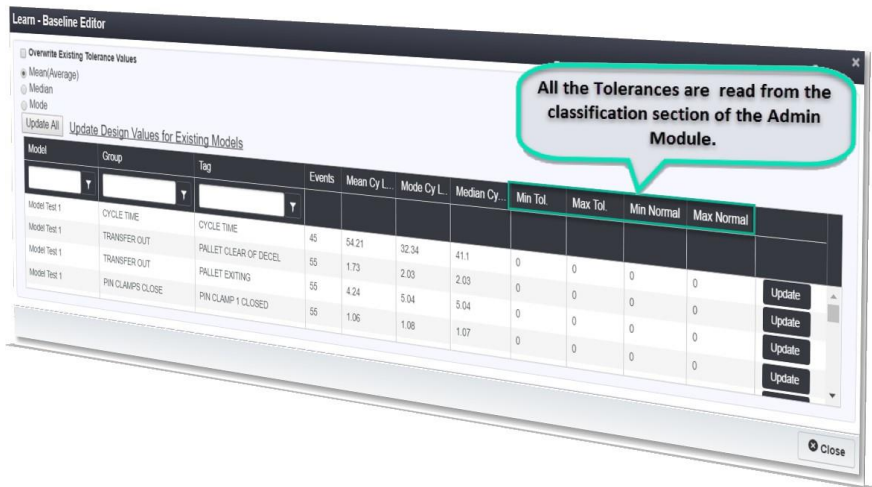


After selecting the Confirm button, the **Learn – Baseline Editor** window will open. In this window, it offers a selection of options to filter and sort the available data.

The Object data is separated into three sortable groups. **Model, Group, and Tag**. The available data values are the Events, Mean Cycle Len. (Length), Mode Cycle L (Length), Median Cycle Length, Min Tol. (Minimum Tolerance), Max Tol. (Maximum Tolerance), Min Normal (Minimum Normal), and Max Normal (Maximum Normal).

All the Tolerance Values are read from the Classification section in the Admin Module.

To sort the Object data columns, you can utilize the **Filtering feature** to the right of each edit box. **Clicking** on it reveals your filtering choice. Click on the filter button and input the object value and it will start to auto display some choices. After a single row has been changed or altered in any way, click the Update button. Click the **Update All** button when all the data changes are completed.



Overwrite Existing Tolerance Values

Mean(Average)  
 Median  
 Mode

Update All Update Design Values for Existing Models

Model	Group	Tag	Events	Mean Cy Len	Mode Cy Len	Median Cy Len	Min Tol.	Max Tol.	Min Normal	Max Normal	
Model Test 1	CYCLE TIME	CYCLE TIME	45	54.21	32.34	41.1	0	0	0	0	Update
Model Test 1	TRANSFER OUT	PALLET CLEAR OF DECEL	55	1.73	2.03	2.03	0	0	0	0	Update
Model Test 1	TRANSFER OUT	PALLET EXITING	55	4.24	5.04	5.04	0	0	0	0	Update
Model Test 1	PIN CLAMPS CLOSE	PIN CLAMP 1 CLOSED	55	1.06	1.08	1.07	0	0	0	0	Update

Click on the "Update All", after all the changes are completed.

Update

Use the Filter to sort the data. Type in the edit box to autofill and find the object desired.

Group

Tag

Is equal to  
 Is not equal to  
 Starts with  
 Contains  
 Does not contain  
 Ends with

Mode Cy Len: 32.34  
 Median Cy Len: 41.1  
 Min Tol.: 0

The Data values can be changed by a selector or by a edit box (Median only).



Except for Events and Median Cycle Length, the others can be adjusted by clicking on the value. It will then highlight and offer you a choice to increase or decrease the value. You can also manually input the number to make it exact.

The checkbox for "Overwrite Existing Tolerance Values" will always be unchecked (Default), therefore if the box is checked, then it will Overwrite the existing Tolerance Values.



The Mean, Median, and Modes will read from whichever one is selected. So, make your selection based upon which cycle length value you want it to read from. Click the **Update All** button after your selection.

NOTE: When all data is completed, click the Update All button to save the work. Not selecting the Update All button will cause a loss of your work. Click Update All before exiting.

Overwrite Existing Tolerance Values

Mean(Average)  
 Median  
 Mode

Update Design Values for Existing Models

**SPECIAL NOTE: If this is checked it will overwrite all the tolerance values. Therefore, by default, this box will be uncheck.**

User have the option to select mean, median, or mode values to update in the database.

Model	Group	Tag	Event	Mean Cycle Length	Mode Cycle Length	Median Cycle Length
Model Test 1	CYCLE TIME			54.21	32.34	41.1
Model Test	TRUCKER OUT			1.73	2.03	2.03
Model Test	TRUCKER OUT		55	4.24	5.04	5.04
Model Test	TRUCKER OUT	NO PALLET PRESENT	55	6.75	8.05	8.02

Select Update all and the editor will read from the column you have selected.

Mean(Average)  
 Median  
 Mode  
 Update

## Cycle View Evaluation Module 3.6

### Overview



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

- [Open Cycle View 3.6](#)
- [Selecting Cycles to Compare 3.6](#)
- [Open Cycle Compare Window 3.6](#)
- [Configure Cycle Collection 3.6](#)
- [Adding More Cycles 3.6](#)
- [Zoom Feature 3.6](#)
- [Deleting a Cycle 3.6](#)
- [Deleting a Collection 3.6](#)
- [Cycle Toggle Feature 3.6](#)
- [Reference for CEM](#)

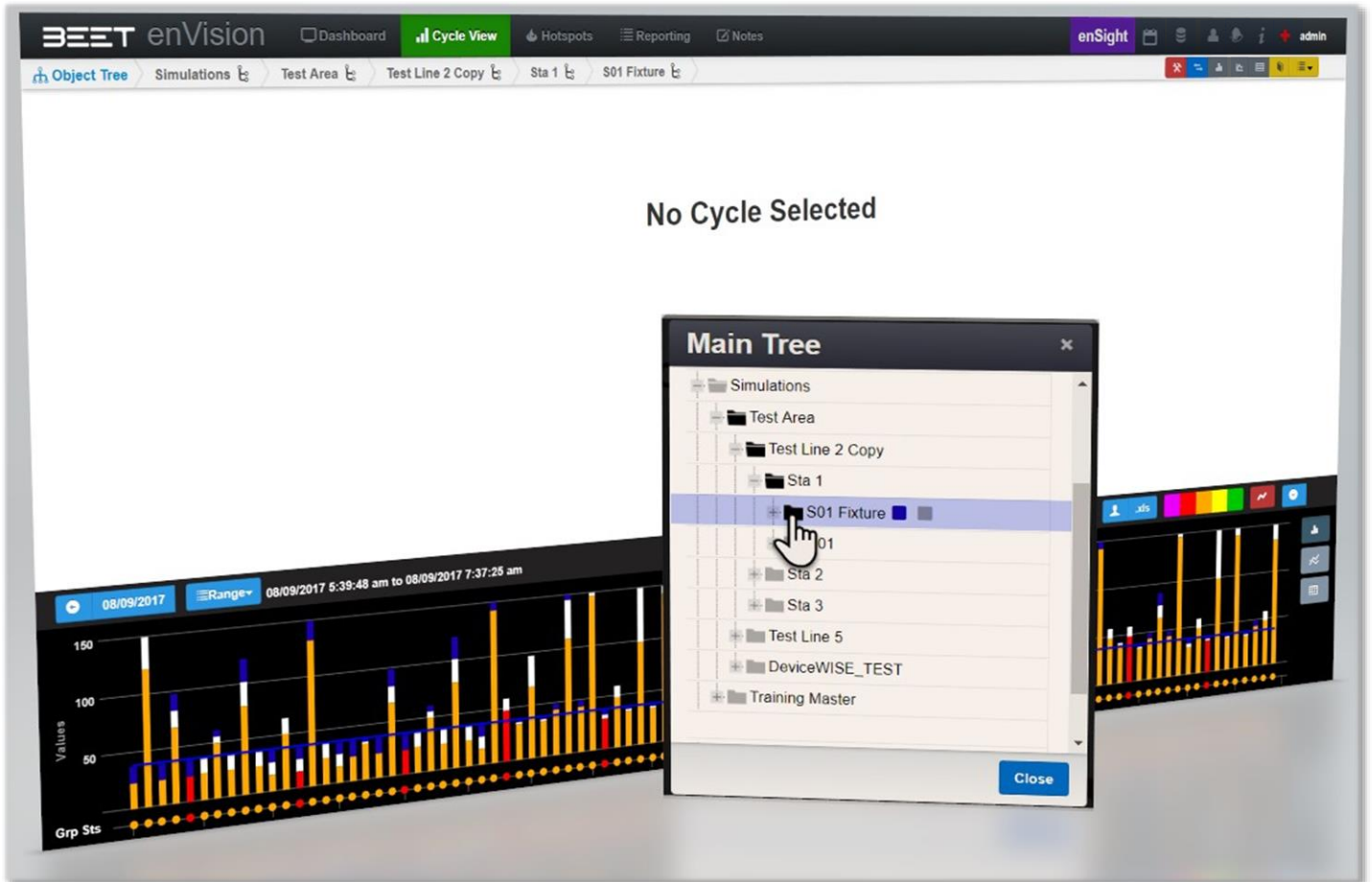


## Open Cycle View 3.6

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

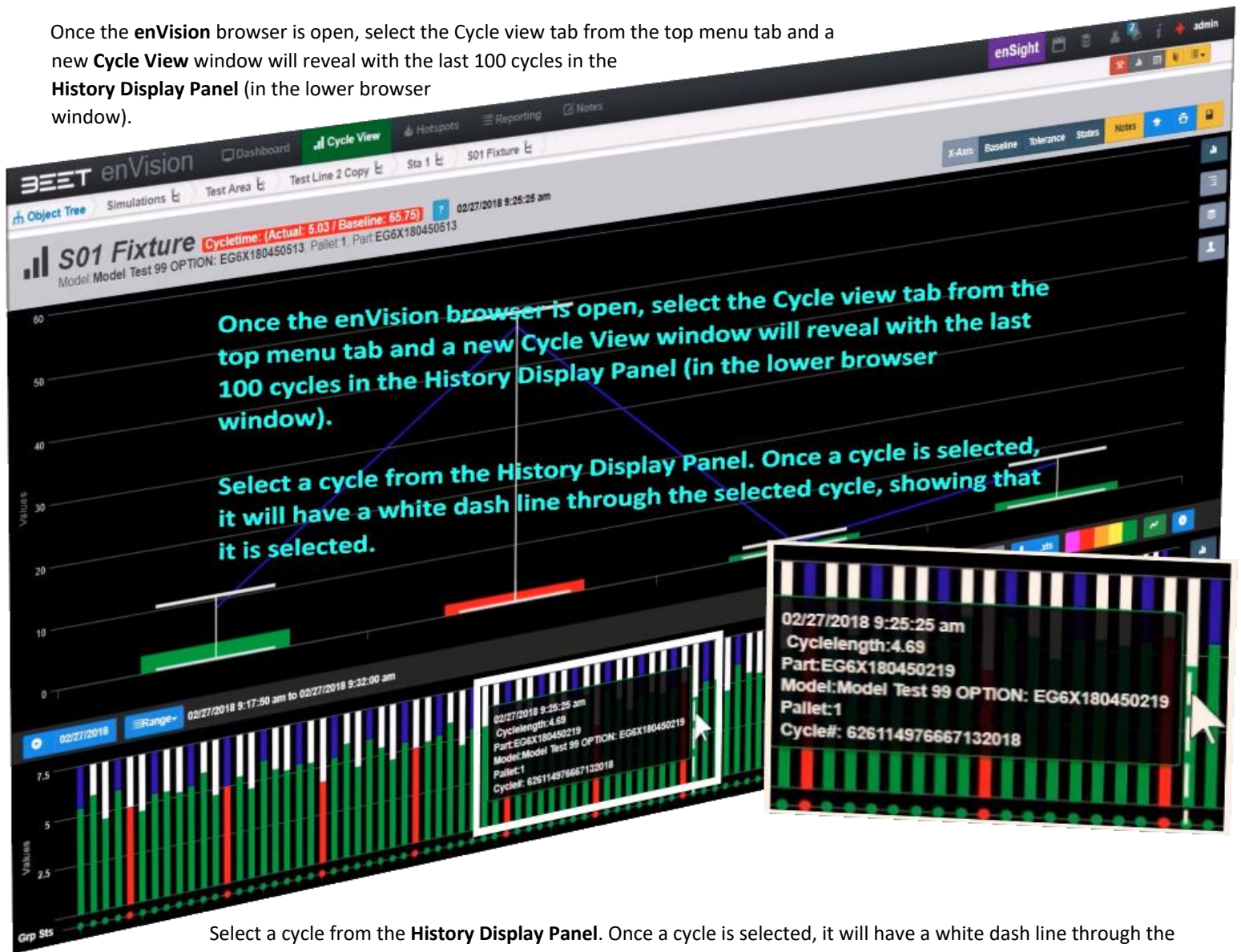
After opening the **enVision** browser, click on the blue **Object Tree** icon to open the **Main Tree**. Navigate the Main Tree to *drill down* to the **Asset** or **Group level**. This module is active at the Asset levels and below.

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



## Selecting Cycles to Compare 3.6

Once the **enVision** 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).

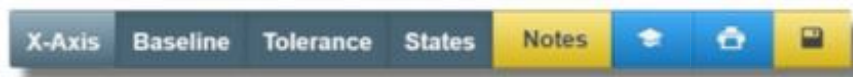


Select a cycle from the **History Display Panel**. Once a cycle is selected, it will have a white dash line through the selected cycle, showing that it is selected.



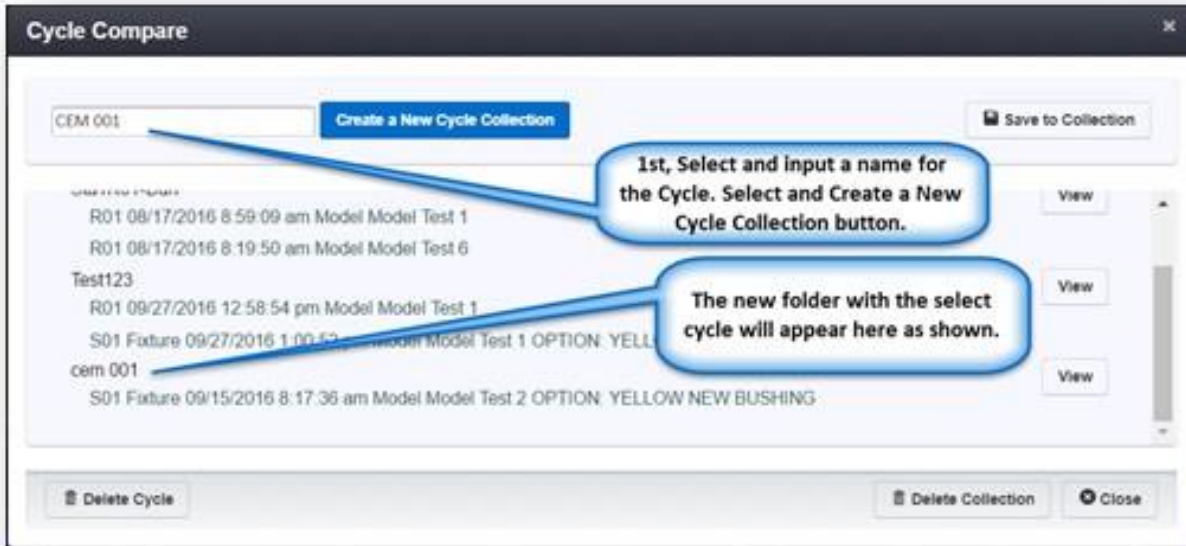
## Open Cycle Compare Window 3.6

When the cycle is clicked on, the upper display window will show the cycle selected. In the upper right-hand side above that window will be the **Cycle View Menu bar**. On the far right side is the Cycle compare button.

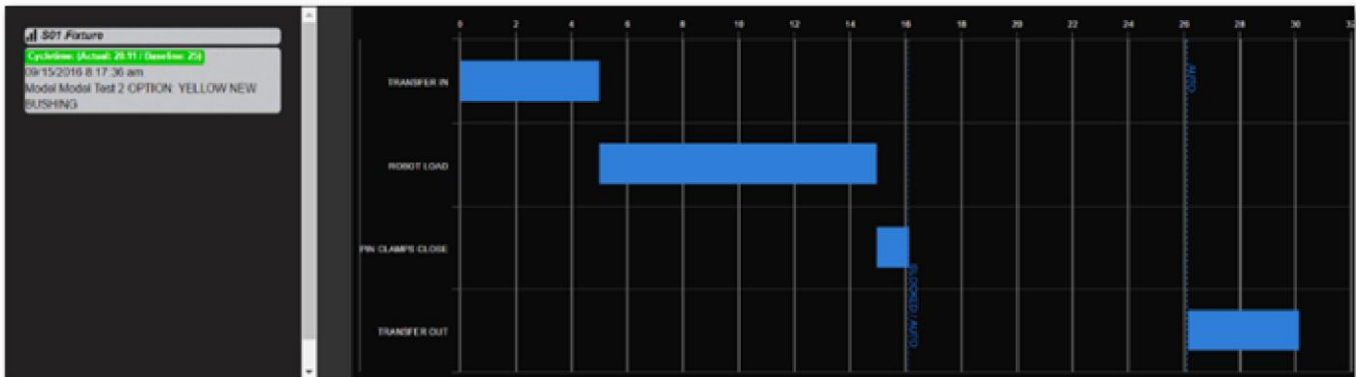


## Configure Cycle Collection 3.6

When the **Cycle Compare** window opens, input a **Name** for the cycle's folder, then select the Create a New Cycle Collection button. This will update the window with a new folder (**CEM 001**) and the first selected cycle.

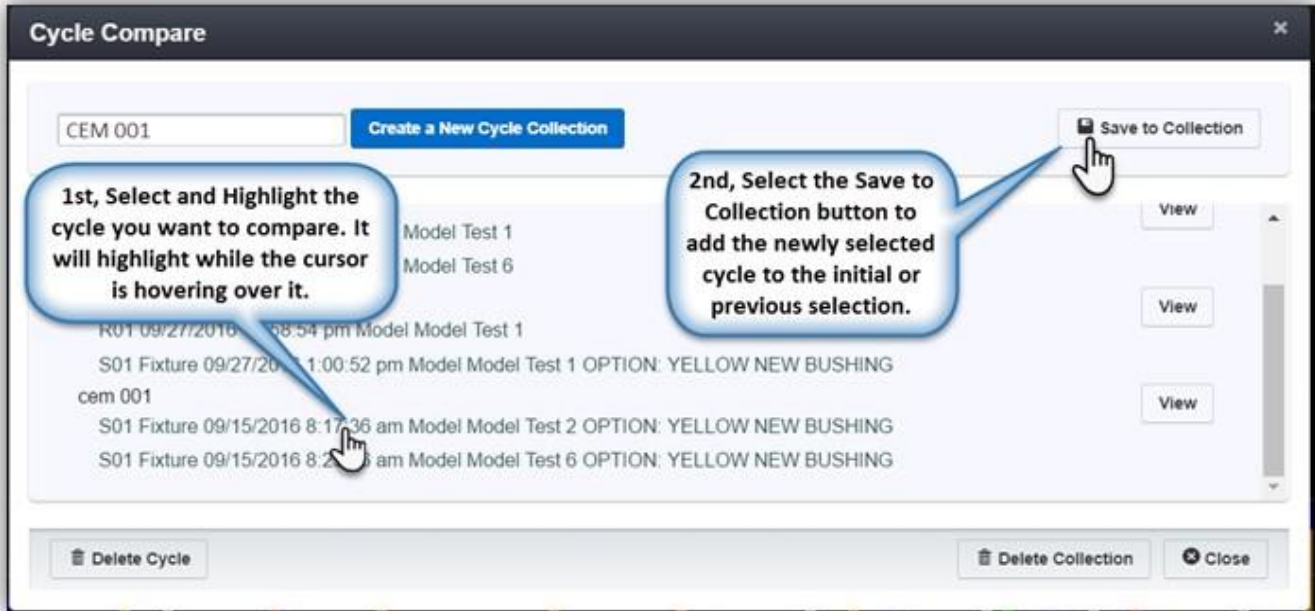


You can click the **View** button and the upper display will reveal the selected cycle as shown below. This will only show the cycle selected.



## Adding More Cycles 3.6

To add **more** cycles, select another cycle from the History Display Panel. Once selected, select the **Cycle Compare** button. The Cycle Compare window will open. Click on the first cycle that was selected, then select the **Save to Collection** button in the upper right-hand side of the window. This will add it to your selection. **Ensure** that you select the **correct** cycle you want to compare with. If many cycles (assets) 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 (**CEM 001**) you can select the **View** button, and this will show the 2 (or more) cycles in the upper browser window.

The cycles will be displayed layered one atop of the other. Hovering over a bar will reveal the details of the cycle. On the left hand side, it will display the cycle information of the cycles selected and stored in the Cycle Compare Collection. To exit this mode, you can select from one of the **Cycle View** buttons to the right of the window, such as the **Heartbeat** and **Sequence** views buttons.

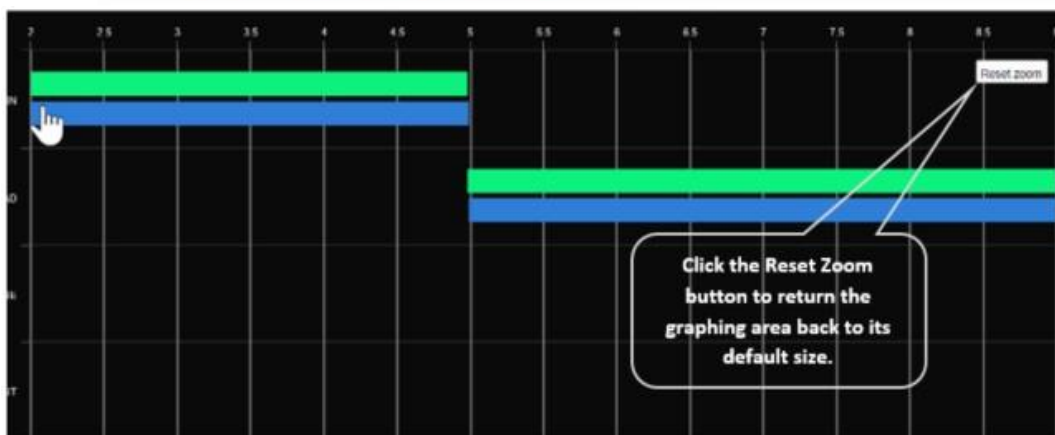
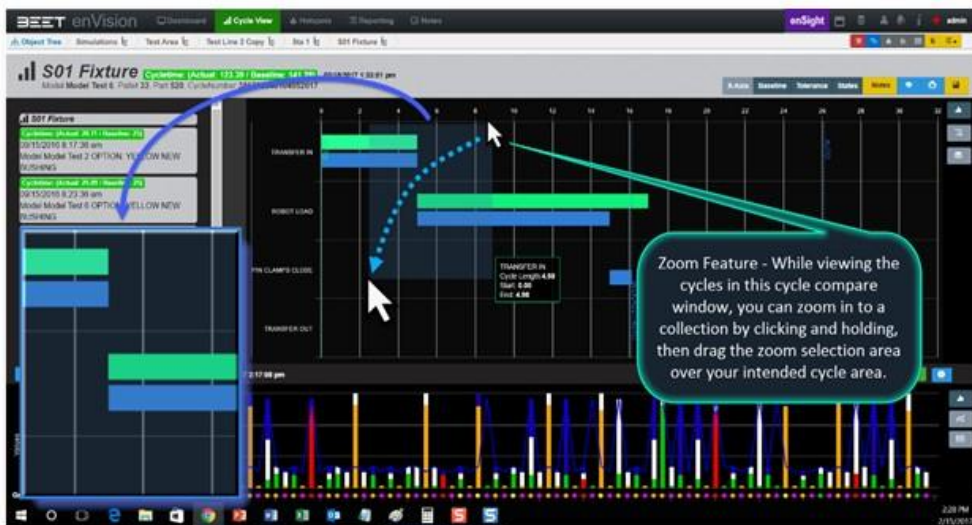


## Zoom Feature 3.6

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. The selected area will be highlighted, then Update to a zoomed in view on your selection. NOTE: The zoom selection area is highlighted with a deeper color.

The zoomed area is now reopened to the selected area. Click on the Reset Zoom button in the upper right-hand corner of the graphing area. This will return the selection to the original display size (default).

Note: The Zoom Function works in the upper graphing area and the History Display Panel.

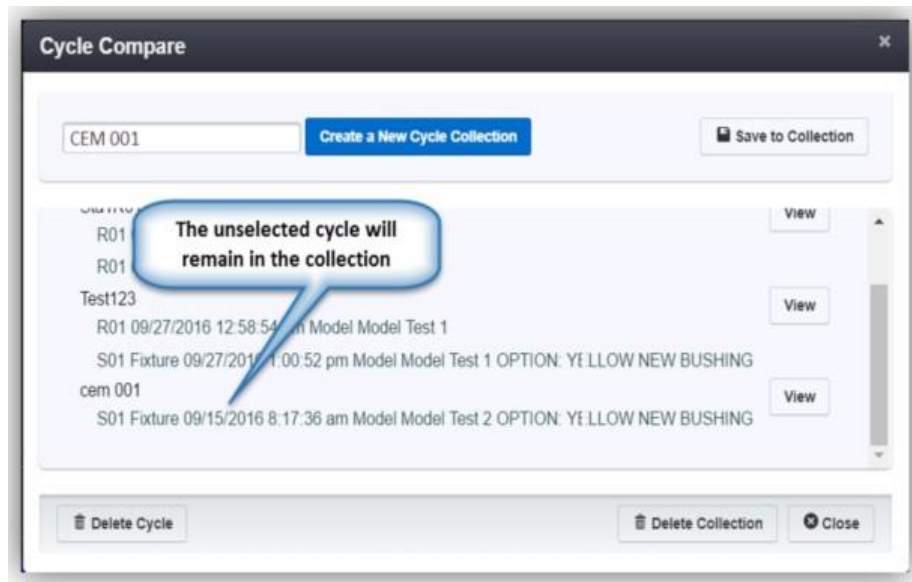
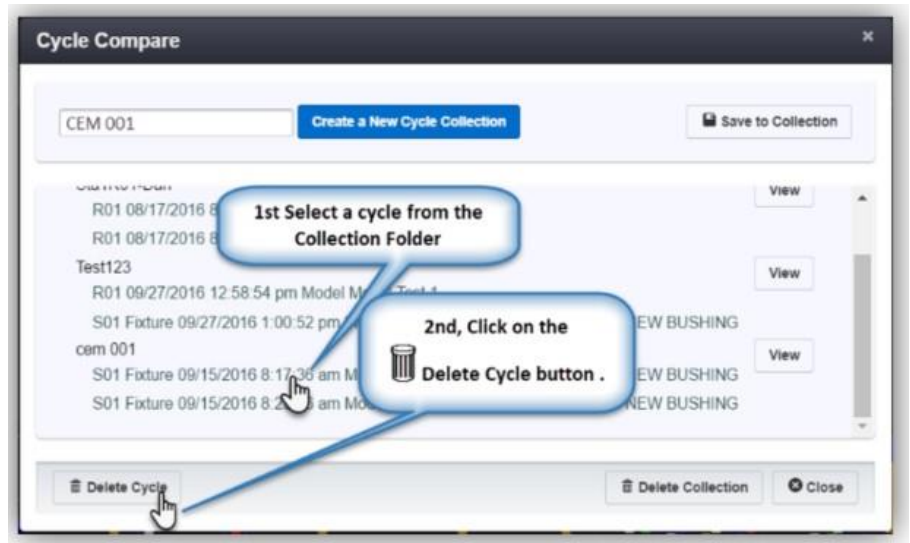


## Deleting a Cycle 3.6

From the Cycle Compare Window, select a single cycle from the list in the Cycle Compare window and select the **Delete Cycle** button to delete the cycle selected.

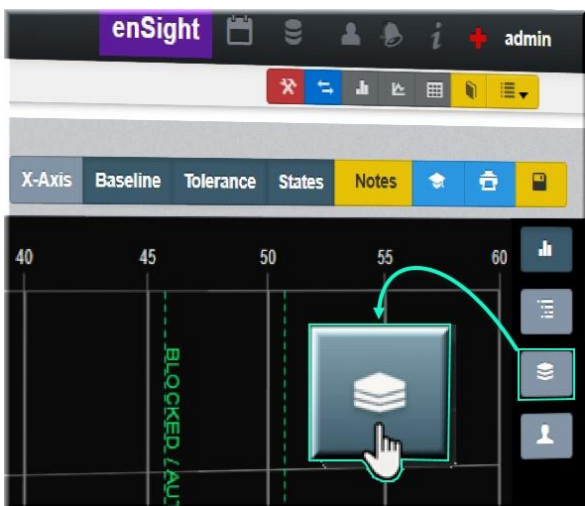
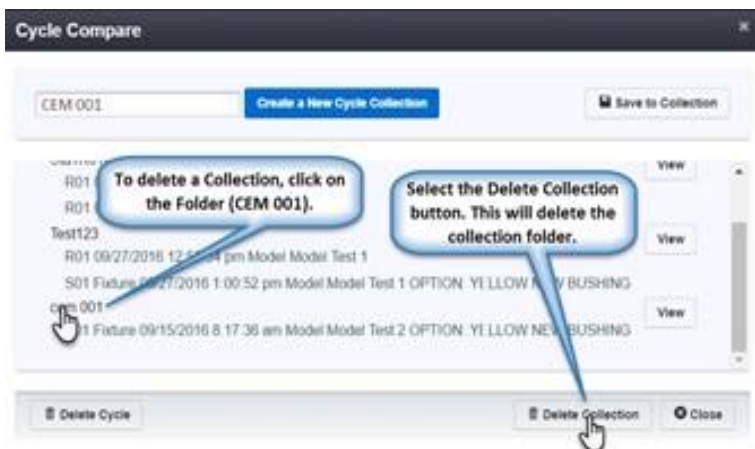
The Cycle Compare window will update to show the Collection Folder CEM 001 and the unselected cycle.

In the event that you deleted a cycle in favor of a different one, you can close the Cycle Compare window and select a different cycle to compare with the remaining cycle. Click on a new cycle in the History View Panel, then click the yellow Cycle Compare button to open the Cycle Compare Collection. Click on the cycle that you want to compare, then click the Save to Collection button. See [Adding More Cycles](#).



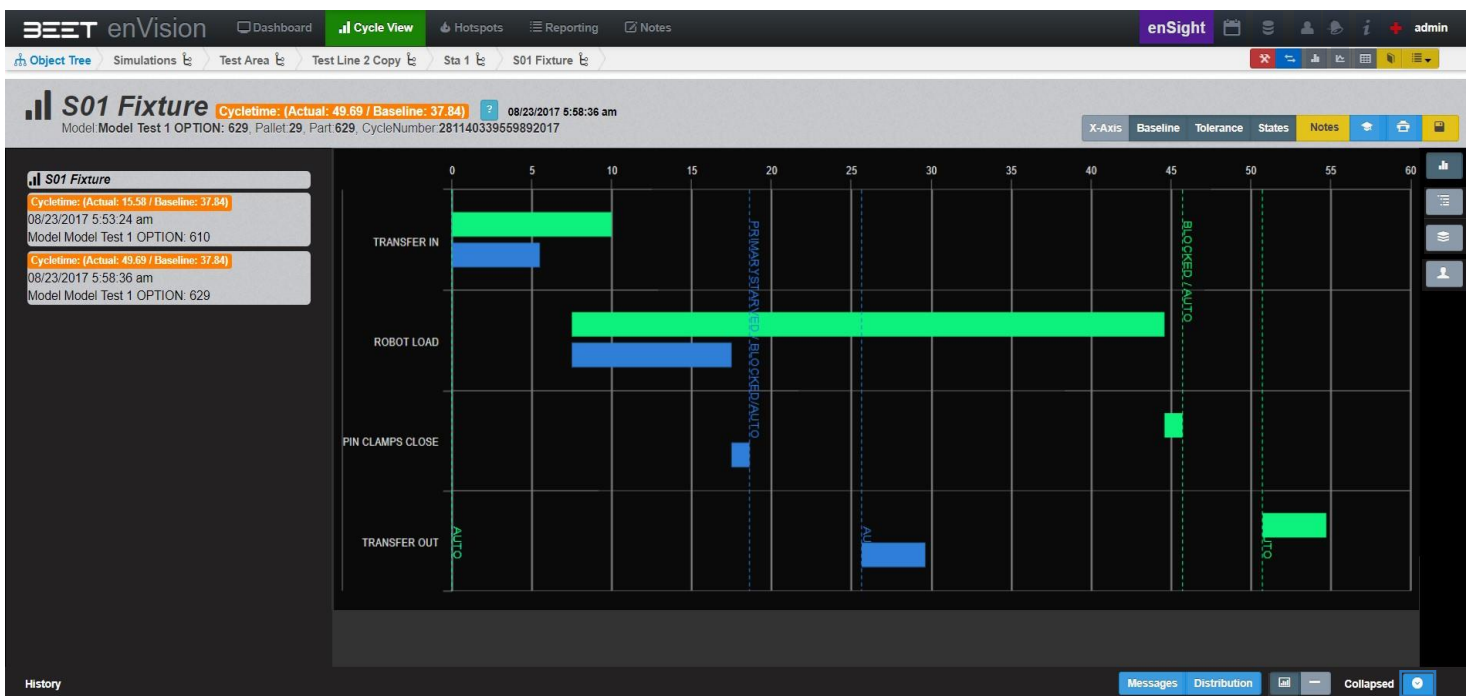
## Deleting a Collection 3.6

Select a Collection Folder from the list in the Cycle Compare window, then select the **Delete Collection** button to delete the folder and the cycles in it.



**SPECIAL NOTE:** Though the data for the cycle and collection have been deleted, it still can be viewed if you have not closed the **enVision Browser** or navigated to another collection.

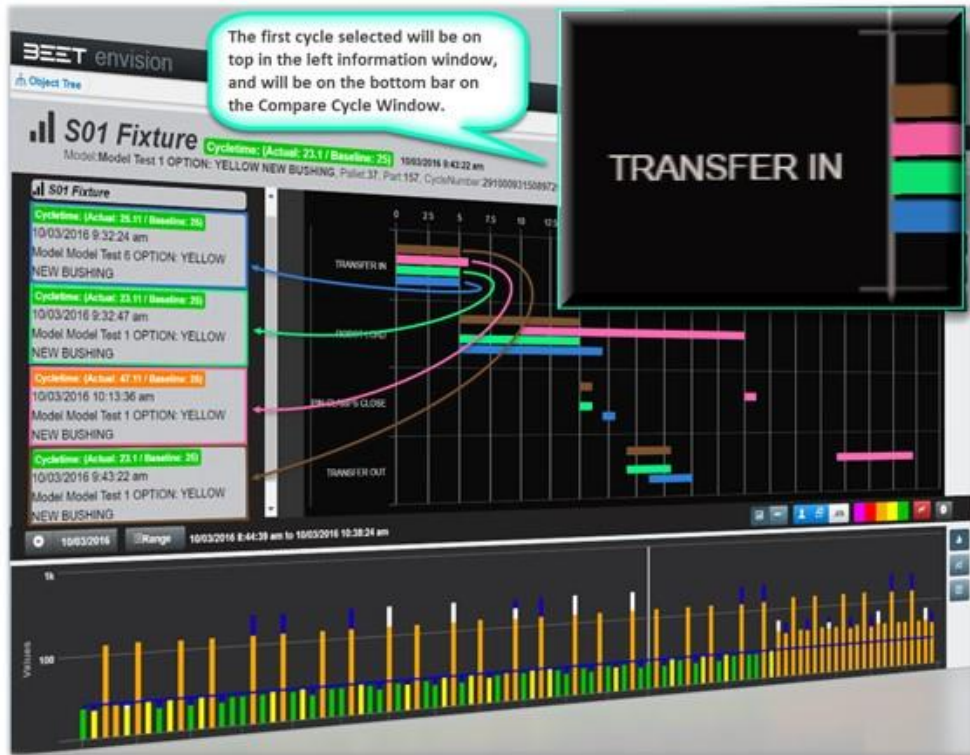
Simply click on the Teal colored cycle compare button under the Heartbeat and Sequence buttons. This will reopen the last cycle compare set that was previously viewed before.



## Cycle Toggle Feature 3.6

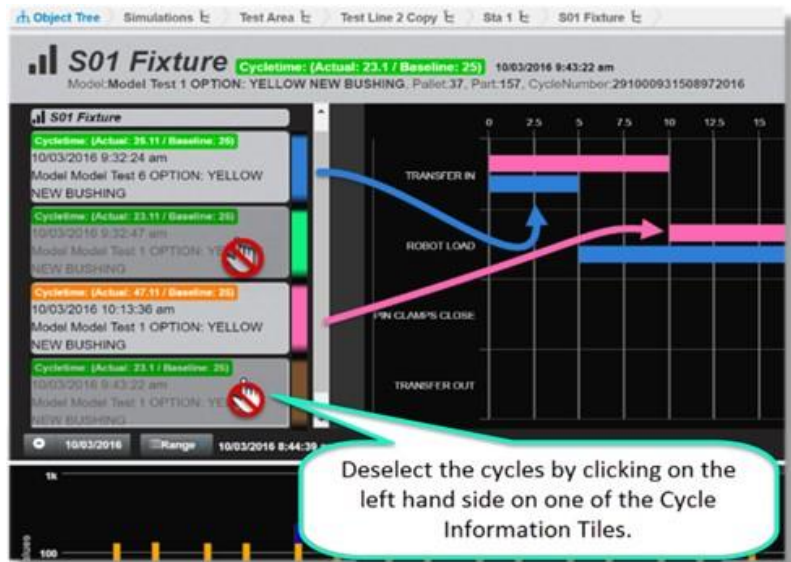
When viewing the Cycle Compare Browser with multiple cycles, it is possible to remove the cycle data from the present Compare window. With two or more cycles displayed, you can click on the left-hand side of the window, and select from the cycle information area. Click on any one or more of the Cycle Information tiles to remove from the Cycle Compare browser area. Click on it again to add it back to the browser.

The first cycle will be on the top in the left-hand side information window, and will be on the bottom bar on the Compare Cycle Window.



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.



## Reference for CEM

### Cycle Compare (Collection) Window

The screenshot shows the 'Cycle Compare' window with a list of cycles and various control buttons. The list includes folders like 'Sta1R01' and 'CEM 001' and individual cycles with dates and times. Callouts provide instructions on how to use the 'Create a New Cycle Collection', 'Save to Collection', 'View', 'Delete Cycle', and 'Delete Collection' buttons.

**Callout 1:** Select a cycle on the History Display Panel, then open the Cycle Compare window, select a cycle you want to compare, then select the Save to collection button.

**Callout 2:** Input a name in the text box to identify the cycle, then click Create button to save it to the collection.

**Callout 3:** Select a Collection Folder, then select the Delete Collection button to delete the folder and the cycles in it.

**Callout 4:** Select the View button to display the selected cycles in the collection.

**Callout 5:** Select a single cycle and select the Delete cycle button to delete the cycle selected.



## Adding Addition Cycles

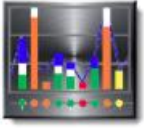


## Cycle Compare Browser



## Cycle History 3.6

### Overview



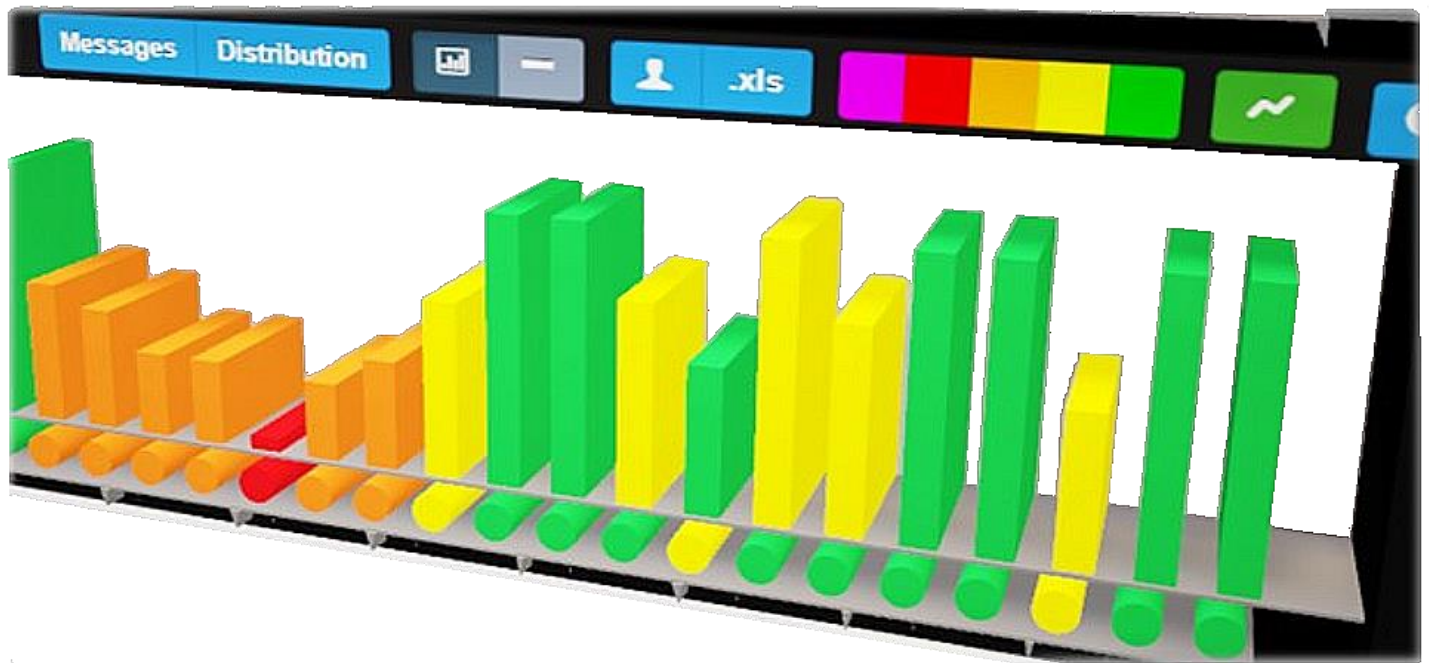
Cycle history can be used to identify areas of concern quickly. Located on the bottom of the cycle browser, the cycle history window shows the cycles of an object in sequence across a preset date range.



- [Overview](#)
- [Color Code 3.6](#)
- [Location 3.6](#)
- [History Filter Options 3.6](#)
- [Cycle Date Options 3.6](#)
- [Cycle History View types 3.6](#)
- [History View](#)
- [Model View](#)
- [Table View](#)
- [Bar Chart](#)
- [Cycle History Day View 3.6](#)
- [Cycle History Higher Level View 3.6](#)

## Color Code 3.6

The history module provides performance history for any selected objects. Each cycle's object status is indicated by a color code.

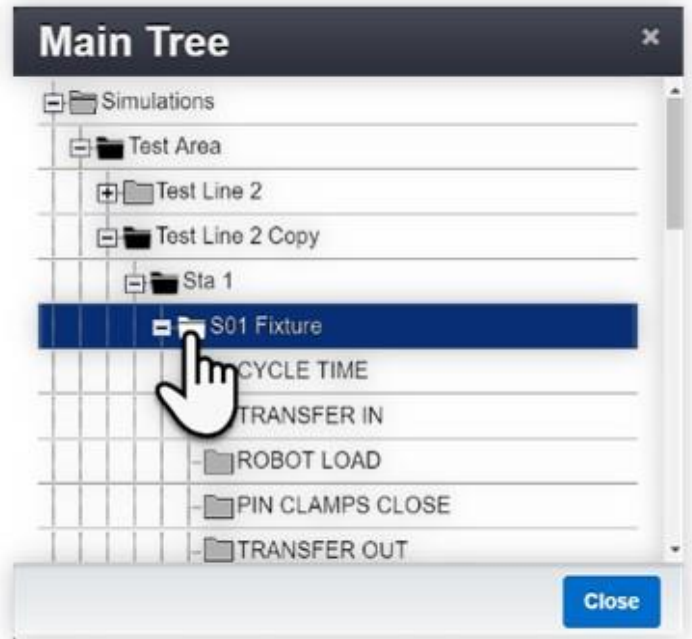


Name	Color	Usage
------	-------	-------

1	Toggle Filter Good	Normal, Optimum Performing Range
2	Toggle Filter Watch	Watch, Not Optimum but within Defined Tolerance Window
3	Toggle Filter Warning	Warning, Outside Defined Tolerance Window
4	Toggle Filter Fault	<b>FAULT</b>
5	Toggle Filter	Missing Data due to Stoppage or Missing Input / Output
6		Design Time Line Color, the Optimum Value
7		Object is inactive or actual Cycle Length is zero
8		Select Object or Cycle

### Location 3.6

Ensure you have the *Cycle View* tab selected on the enVision top menu:



Use the Main Tree to navigate to the object you would like to view for cycle information. Selecting your object will launch the cycle browser. The cycle history module is located in the bottom portion of the cycle browser. Select a cycle from the History Display Panel and the Upper Graphing area will reveal the cycle selected.

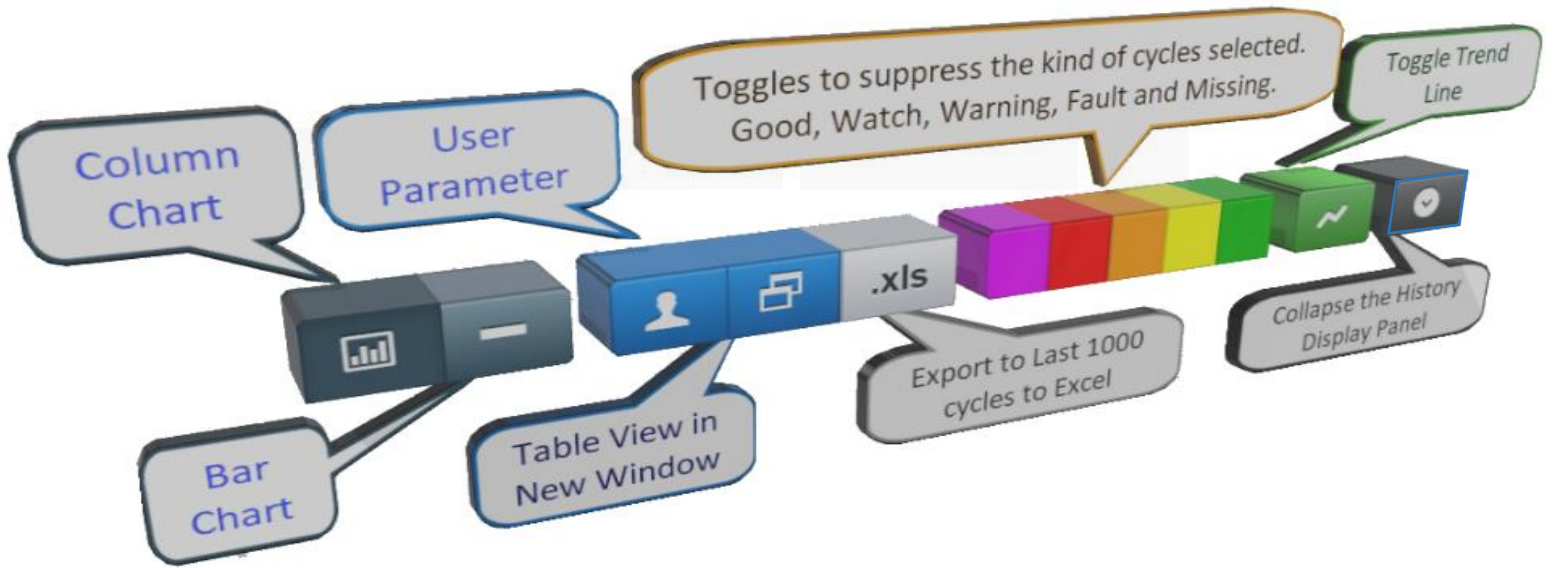


Cycle View History Control Module

## History Filter Options 3.6

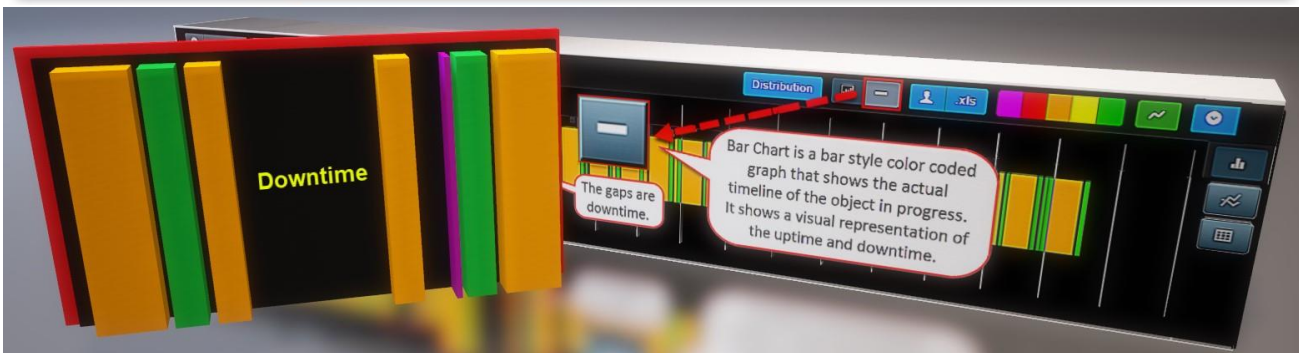
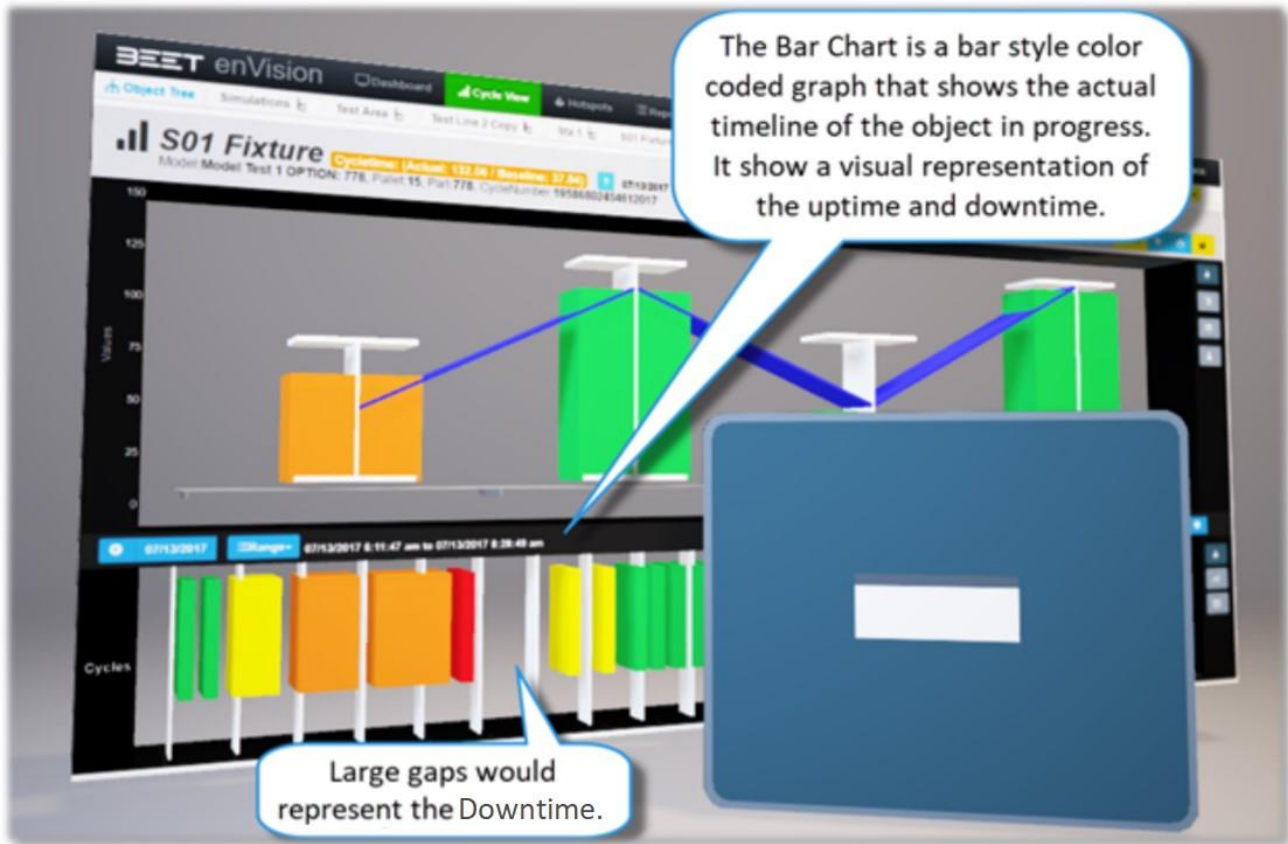
### History Filter Options

A list of cycle history options highlighted in Red, is located in the top right corner of the bottom window.



### Bar Chart 3.6

Bar Chart is a bar style color coded graph that shows the actual timeline of the object in progress. It shows a visual representation of the uptime and downtime.



### Collapse Table 3.6



Collapse Table – This button will collapse the graph or table in the lower Cycle browser window. When it's collapsed, hovering over the icon will restore the graph temporarily, until the cursor is moved off the lower graph, then it will collapse again. **Click** on the icon again to leave it up.

This button will collapse the History Display Pan, so the Upper Graphing Display will be on Full Screen Mode.

**Click on the Collapse button.**

The History Display Panel will drop down into the status bar. Click again to restore the Panel.

Move the cursor to the bottom of the page to temporarily display the History Display Panel. It will disappear after the cursor is moved from the bottom.

Click on the Collapse button to bring the History Display Panel back up and restore the browser to its default view.

### Column Chart 3.6

The Cycle History Panel contains a color-coded graph that indicates cycle statuses for a selected object over a period of time. This is showing the last 100 cycles.



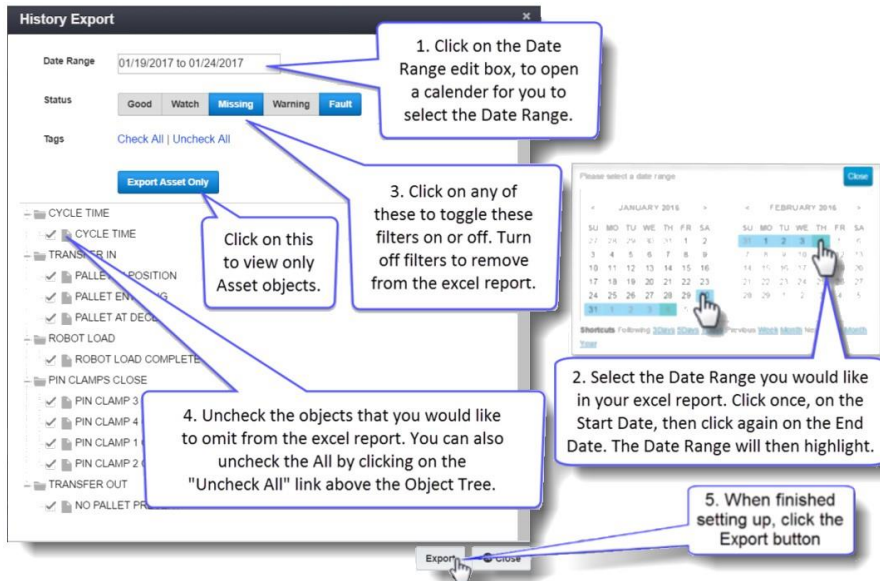


## Export last 1000 Cycles to Excel 3.6

This displays a spreadsheet program to view data.

From the Cycle Browser screen, you can select the .xls button to Export the last 1000 Cycles to Excel. This opens a spreadsheet program to view and plot data.

**Click** on the .xls button and History Export window will open so that you can configure what you want on your report.

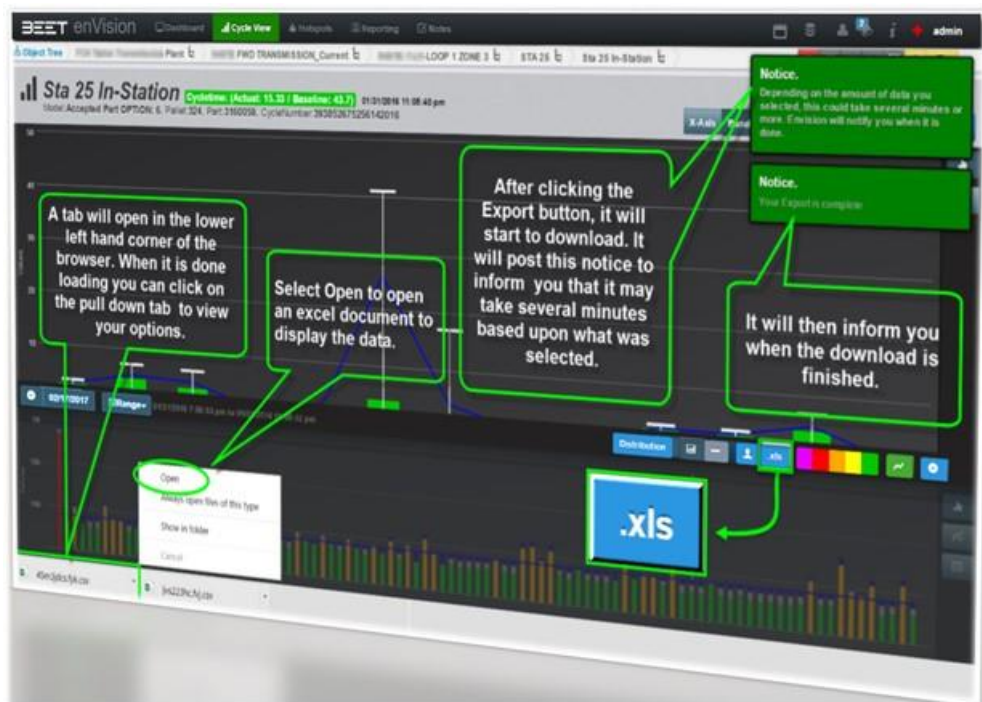


First, set the date range by **Clicking** on the edit box. A calendar will appear. **Click** on date on the calendar to set the start date. **Click** again to set the end date. You can also use the presets at the bottom of the calendar window. Check off any of the statuses that you want to omit from you excel report. Check off any Tags you want to omit from your report. When you are done setting up the excel report, **Click** the Export button.

The History Report window will disappear and you'll receive a Notice in a green window that will let you know that it may take several minutes and it will notify you when the download is complete, with another small green window. The download tab at the bottom

left of the browser will open and start downloading. When it is finished, **Click** on the pull down tab to reveal the menu. Choose Open, this will open an excel file with the data configuration that was selected.

An excel document will now open with the data selected. It can now be viewed, plotted, and sent as needed. The file is in your Downloads folder.



### Parameter History 3.6

This displays the Parameter History data in a window within the cycle browser to view. It shows the Parameter and the Value History. This will display within the cycle browser window.



### Table View in New Window (v2.4 or lower) 3.6

This displays a new window with the cycle parameters in a separate window. This window can be moved out of the cycle browsers window, so it can be view on a separate monitor if needed.

The table is displayed in the History Display Panel in v3.0 and above.

Development.beet.com/View/History/HistoryWindow.html

Drag a column header and drop it here to group by that column

Cycle Len...	Baseline	Model	Cycle#	Pallet	PartNumber	DateStamp
138.43	25	Model Test 6 OPTION: 2	3505371045...	35	315	11/04/2016 1:39:18 pm
138.43	25	Model Test 1 OPTION: 2	35056371047...	36	316	11/04/2016 1:39:45 pm
138.43	25	Model Test 1 OPTION: 2	35057371050...	37	317	11/04/2016 1:40:13 pm
138.54	25	Model Test 6 OPTION: 2	35058371064...	38	318	11/04/2016 1:42:29 pm
138.54	25	Model Test 1 OPTION: 2	35059371067...	39	319	11/04/2016 1:42:56 pm



### Toggle Filter 3.6

The Toggle filters are used to add or remove certain filters for display. Clicking on one or more of the color buttons will x it out and the History Display Panel will show only the color filters remaining.



**Toggle Filter Good** – Toggle this filter to suppress the Good data cycles

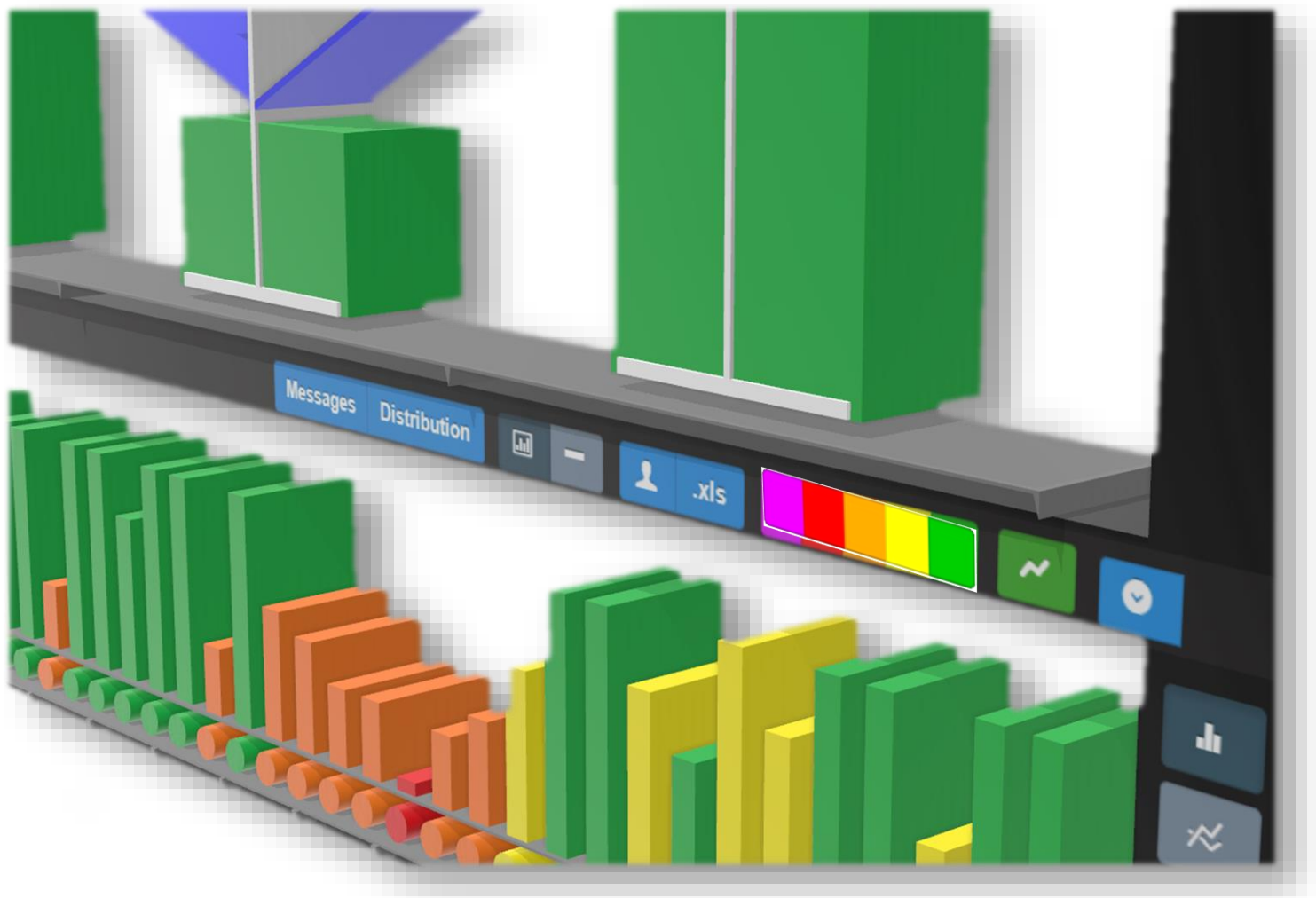
**Toggle Filter Watch** – Toggle this filter to suppress the Watch data cycles

**Toggle Filter Warning** – Toggle this filter to suppress the Warning data cycles

**Toggle Filter Fault** – Toggle this filter to suppress the Fault data cycles

**Toggle Filter Missing** – Toggle this filter to view the Missing data cycles

**Toggle Trend Line** – This turns on a trend line in the lower graph in Column chart view only.

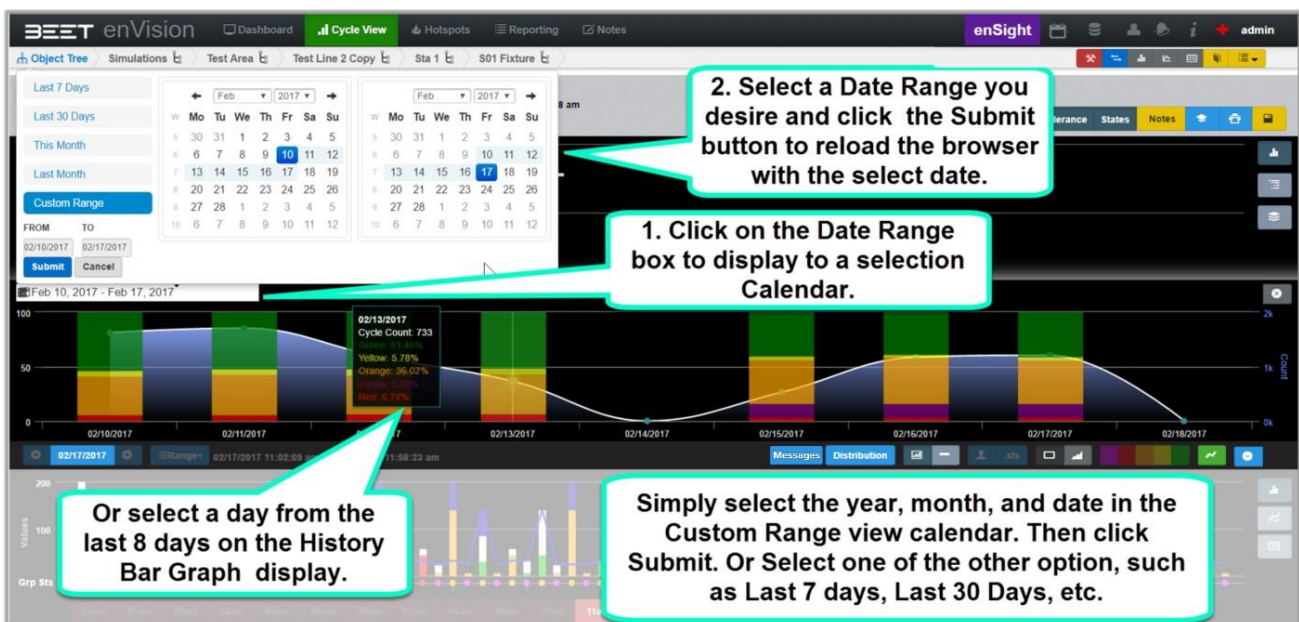


## Cycle Date Options 3.6

A list of cycle date options, is in the top left corner of the bottom graph window.

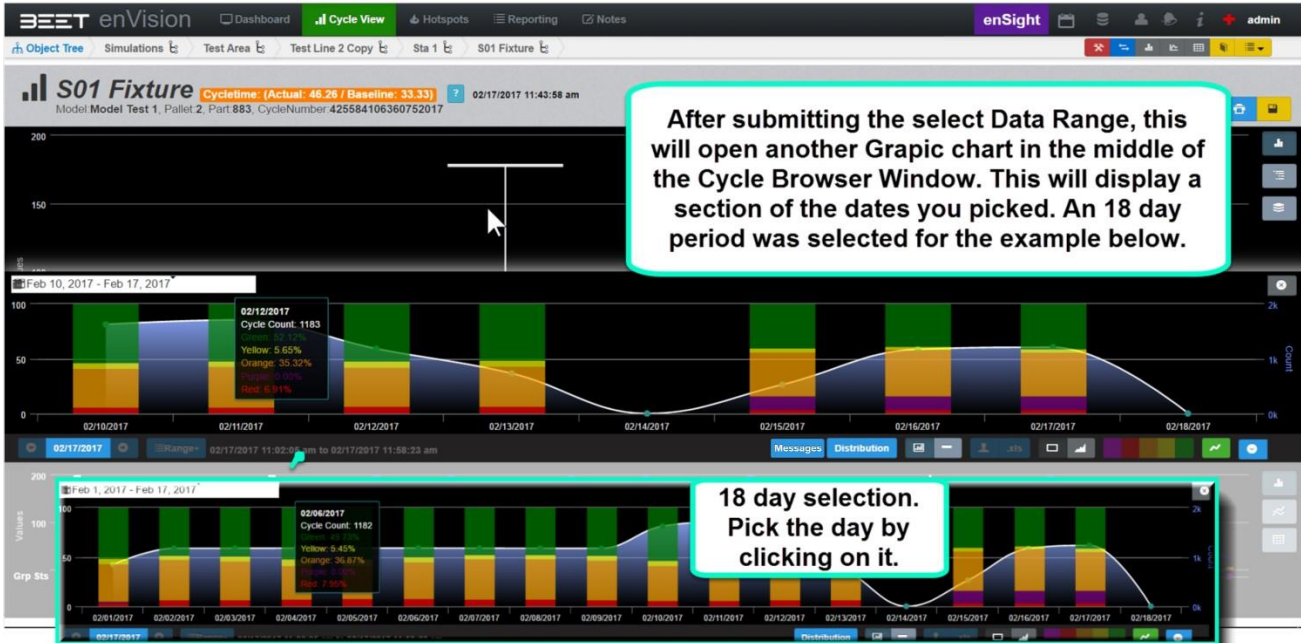


Users can also select the date tab on the left to access open a new graph chart, **Click** on the date range and a calendar will open that can be used to view any date range (Custom Range View).





Simply select the year, month, and date in the **Custom Range view**, to be included in the selection, by using the drop down tabs on the calendar. Other options are available as well. By selecting the **Last 7 days**, **30 days**, **This Month**, and **Last month**, this will open another Graphic chart in the window that will display the selection chosen:



## Cycle History View types 3.6

- [Cycle History Day View](#)
- [Cycle History Higher Level View](#)

### History View

Shows the last 100 cycles for a selected object, which contain the Color Code and Cycle Length of each cycle.



### Model View

Shows the variances for each cycle, by multiple models.



### Table View

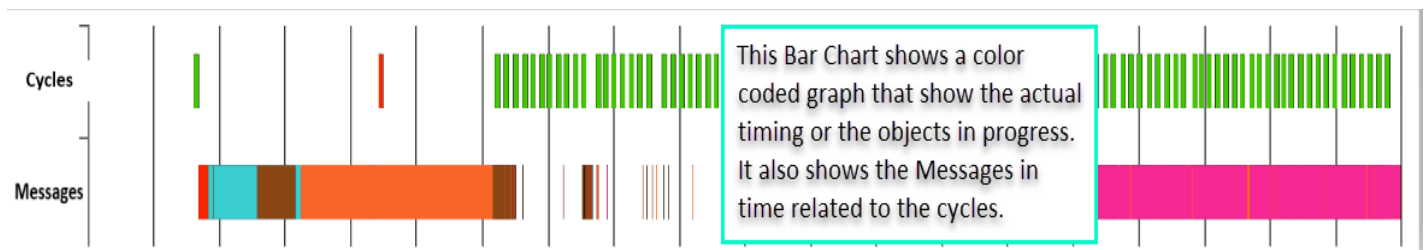
Opens a scroll able table where the graph was.

**Table View**  
The table View displays the cycle data in a table form.

Cycle Length	Baseline	Model	CycleId	Pallet	Part	DateStamp
141.28	33.33	Model Test 6	4268041139582017	38	1118	02/17/2017 1:07:53 pm
		Model T		39	1119	02/17/2017 1:08:21 pm
		Model T		40	1120	02/17/2017 1:08:25 pm
		Model T		1	1121	02/17/2017 1:08:48 pm
		Model T		2	0	02/17/2017 1:08:53 pm
		Model T		2	1123	02/17/2017 1:09:19 pm
		Model T		4	0	02/17/2017 1:09:23 pm
		Model T		4	1131	02/17/2017 1:11:39 pm

### Bar Chart

–Show a color coded graph that show the actual timing or the objects in progress.

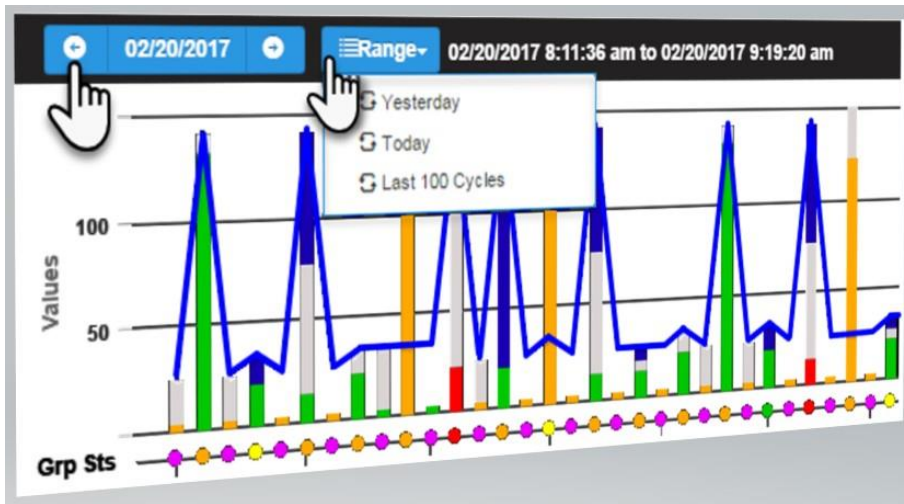




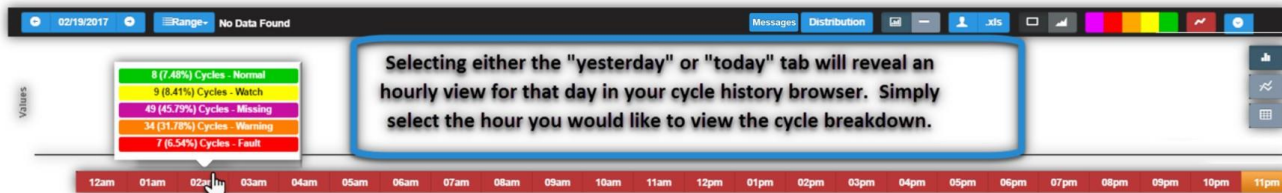


## Cycle History Day View 3.6

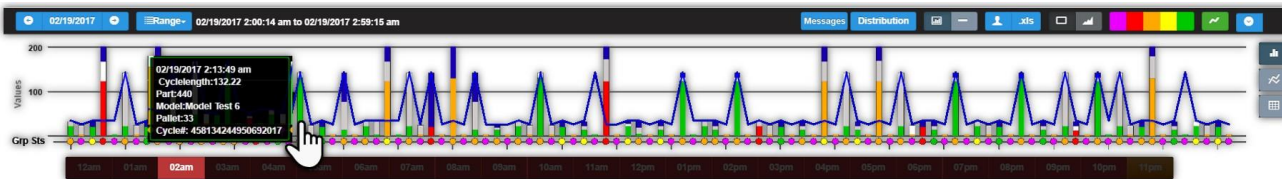
Use the date panel in the cycle history browser to access the day view for your object. Or **Click** forward or backward to get to the date desired.



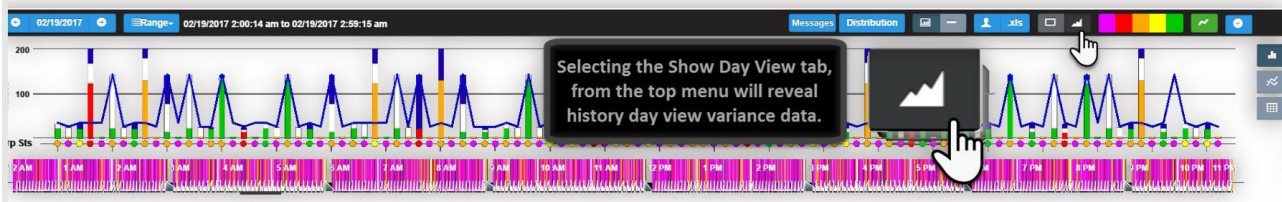
Selecting either the "yesterday" or "today" tab will reveal an hourly view for that day in your cycle history browser. Simply select the hour you would like to see a cycle breakdown for.



Doing so will reveal a graph (Hour View) with bars representing each cycle in the selected hour. Roll the mouse pointer over a single bar for more information on that cycle:



Selecting the **Show Day View** tab, from the top menu will reveal history day view variance data:



### Cycle History Higher Level View 3.6



You can view the cycle history for objects at levels higher than asset or group. Simply **Click** any folder or labeled object above the asset or group level in the main tree.

Doing so will reveal a history graph indicating the status percentage of the object day-by-day.

You can also view the **State Duration** by clicking the Cycle Data button in the top right corner to see a graph indicating how long the object was in the fault, blocked, and starved states, day-by-day.



At a Higher level in the Upper graphing area, you can deselect the parameters, by clicking on the name in the legend area. Clicking on the name will remove it from the graphical representation.

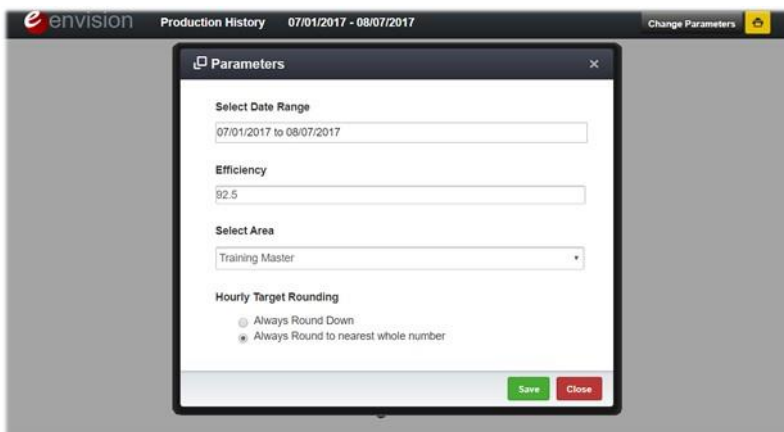
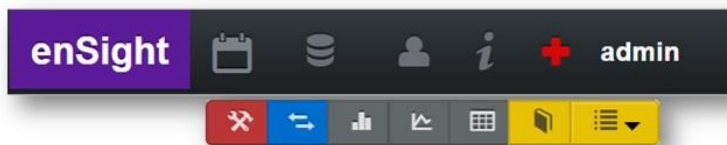


# Production Counts in New Window 3.6

## Opening the Production Counts



To open the Production Counts in a new window, go to the upper right hand side of the Cycle View Browser. Click on it and it will open a new window with and Parameters window within it.

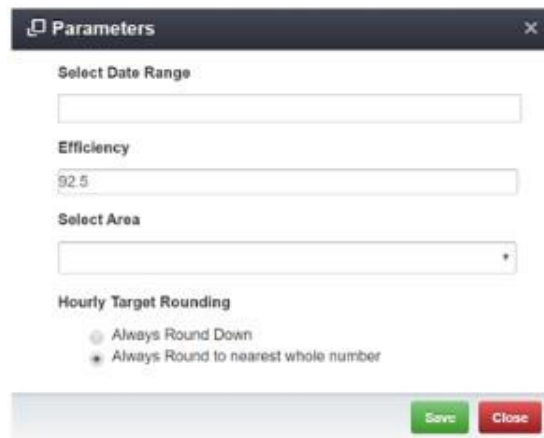


## Parameters Window

In the parameters window is where you configure the data you would like to view.

### Select Date Range

To start, input a date ranges by **clicking** on the **Select Date Range** edit box. This action will reveal a calendar set that will allow you to select a date range. **Click** on e to select the starting or end date. **Click** again on a date before or after to include the days in between your selections.



Your selected date range will appear in the edit box and above the calendar selection widget. When your date range is correctly configured, click on the **Close** button to continue.

## Efficiency

The Efficiency parameter is set at a default value. If it is not what is desired, then it can be changed simply by selecting within the edit box and changing it to the desired value.

### Efficiency

92.5

## Select Area

The screenshot shows the 'Parameters' dialog box with the 'Select Area' dropdown menu open. The list includes: Test Area, Ladder, LADDER ASSY, LADDER ASSY (Beet Review), LH BODY/SIDE MAINLINE, Machining Area, Moon Roof, NAVISTAR, SEAT INSPECTION, SIDESILL, Test Area (highlighted), Training Master, UNDERBODY, UNDERBODY, and UNDERBODY MAINLINE.

Click on the edit box to reveal a drop down menu. In the drop down menu, will be the areas that are currently present in the enVision. Select the correct area you would like to view.

The screenshot shows the 'Parameters' dialog box with the 'Select Area' dropdown menu closed. The selected area is 'Test Area'. Below it, the 'Hourly Target Rounding' section has two radio buttons: 'Always Round Down' (unselected) and 'Always Round to nearest whole number' (selected). 'Save' and 'Close' buttons are at the bottom right.

## Hourly Target Rounding

The Hourly Target Rounding feature allows you to **Round Down** or **Round to the nearest whole number**. Simply select one of the choices:

When all items are complete, check over your inputted values. If everything is as you desire, then click the **\_Save\_** button.

The close-up shows the 'Hourly Target Rounding' section with two radio buttons: 'Always Round Down' (unselected) and 'Always Round to nearest whole number' (selected).

## Change Parameters



If changes in the parameters entered are needed, then simply click the button to re open the Parameters window. Make your changes then click **\_Save\_** button to re-save.

## Reporting

Click the yellow **[Print]** button to download the result to an xls format.



**e envision** Production History 09/04/2017 - 09/08/2017 Change Parameters

**2nd Shift | Friday 9/8/2017**  
 Target: 344 OFFLOAD: 314 EFFICIENCY: 84%

Machine	Hour 1 (60 min)	Hour 2 (60 min)	Hour 3 (60 min)	Hour 4 (60 min)	Hour 5 (60 min)	Hour 6 (60 min)	Hour 7 (60 min)	Hour 8 (60 min)	Hour 9 (60 min)	Total
	1:00 to 2:00 pm	2:00 to 3:00 pm	3:00 to 4:00 pm	4:00 to 5:00 pm	5:00 to 6:00 pm	6:00 to 7:00 pm	7:00 to 8:00 pm	8:00 to 9:00 pm	9:00 to 9:00 pm	
Baseline: 77 seconds Production Minutes: 480	43	43	43	43	43	43	43	42	0	344.00
Target	43	43	43	43	43	43	43	42	0	314.00
LADDER	35	47	40	42	38	38	38	38	3	268.00
FLOOR PAN	33	44	38	42	38	38	38	38	1	268.00
UBODY_C01	39	44	38	41	38	42	37	37	4	268.00
UBODY_C02	37	43	35	40	41	40	39	37	3	268.00
BSINL	38	39	35	40	41	40	39	37	3	268.00
BSINR	37	39	35	37	41	41	41	41	3	268.00
BSOUL	40	42	35	38	39	39	39	39	3	268.00
BSOUR	35	38	37	37	37	37	37	37	3	268.00
BSMAL	38	40	38	40	38	38	38	38	3	268.00
BSMAR	39	39	43	40	38	38	38	38	3	268.00
FRAMER_C01	39	39	41	40	38	38	38	38	3	268.00
FRAMER_C02	39	39	42	38	38	38	38	38	3	268.00
FRAMER_C03	41	38	33	41	38	38	38	38	3	268.00
PANEL_C01	38	0	0	0	0	0	0	0	0	0.00
GLASS	0	39	37	38	38	38	38	38	3	268.00
FENDER	35	39	40	41	41	41	41	41	3	268.00
WINDSHIELD	39	39	38	38	38	38	38	38	3	268.00
FTDRL	41	34	31	31	31	31	31	31	3	268.00
FTDRR	38	34	32	38	38	38	38	38	3	268.00
RRDRL	38	39	41	38	38	38	38	38	3	268.00
RRDRR	38	39	41	38	38	38	38	38	3	268.00
SWING GATE	0	0	0	0	0	0	0	0	0	0.00

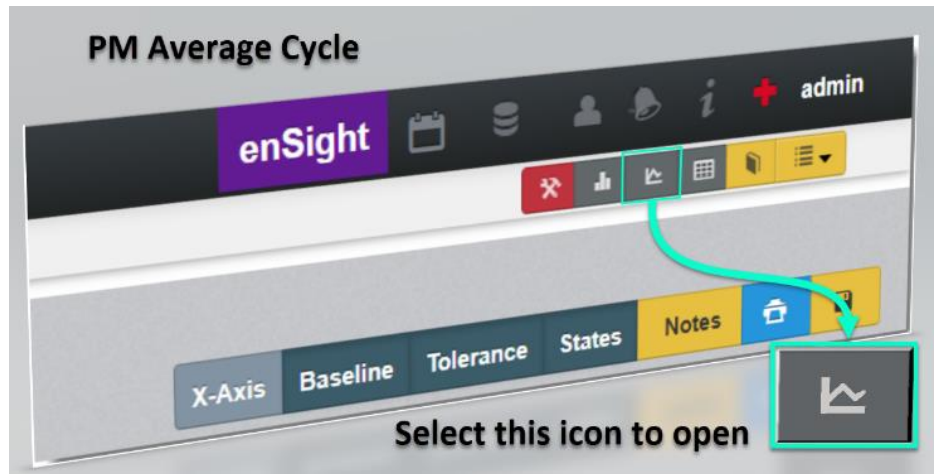
**2nd Shift | Friday 9/8/2017**  
 Target: 344 OFFLOAD: 314 EFFICIENCY: 84%

Machine	Hour 1 (60 min)	Hour 2 (60 min)
	1:00 to 2:00 pm	2:00 to 3:00 pm
Baseline: 77 seconds Production Minutes: 480	43	43
Target	43	43
LADDER	35	43
FLOOR PAN	33	47
UBODY_C01	39	44
UBODY_C02	37	43
BSINL	38	39

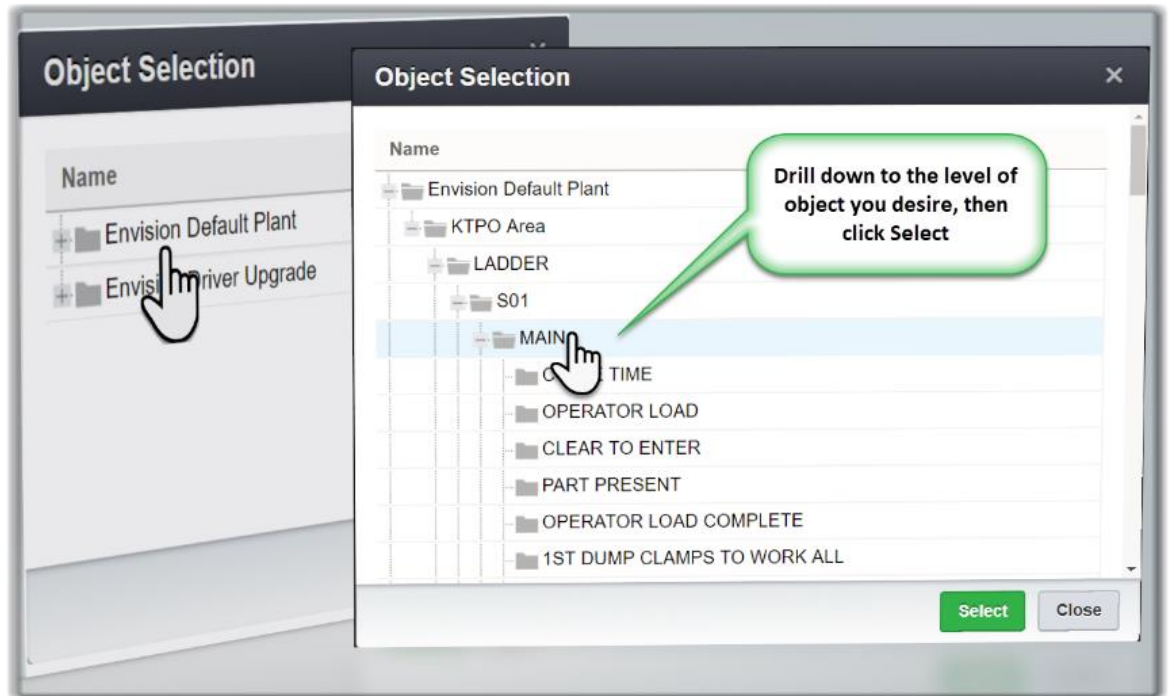
## PM Average Cycle

### Opening PM Average Cycle

To open the PM average cycle module click on the second set of icons in the upper right-hand side of the browser.



Once opened, an object selection window will appear. From there, make a selection to drill down to the object level you would like to see. Once you reach your object, click on the title, then click the green select button.





They configure Report window will reveal. The configure report window will require you to select a date a report a model and give you a choice to pick the top three objects.

Click on the Date Range to select and Start and End Date.

Select how to sort the Report

To see the top 3 objects, check off the Top 3 Checkbox.

Select the Model type to view

Click Run to load the configuration.

First make a date selection click on the date range box and a calendar will reveal. First click on the start date it will highlight blue. Next click the end date and the date range will then be highlighted. Once finished click the close button and the calendar will disappear.

Next, click on the pull-down for report make a choice by some by shift by week by week shift or by group breakdown. Click on your selection and the report filled will now display your selection.

Now, move down to the models area. Click on the pull-down to reveal all the available models scroll down to pick the correct model you would like to display. Pictures selection turn your slash will appear in the models window.

Lastly check or uncheck the top three box. This will display the top three objects if it is selected. If you would like to see all the objects then leave it

unchecked. Truck over the configuration report and if everything is to your desire click the Run button to load the configuration.

A loading new data box will appear and the day that will start to load.

Loading new data.

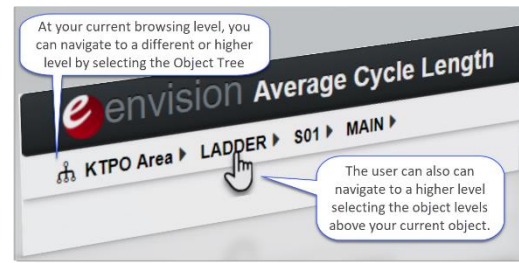
At the level selected in this example, the first screen you would see is a carafe table of the data sorted by the level that was selected.

Line	Station	Asset	Group	Target	Value
			CYCLE TIME	77	0
			OPERATOR LOAD	34	0
			CLEAR TO ENTER	8	0
			PART PRESENT	25	0
			OPERATOR LOAD COMPLETE	5	0
			1ST DUMP CLAMPS TO WORK ALL	0.85	0
			1ST DUMP CLAMPS TO WORK 2DR	0.85	0
			1ST DUMP CLAMPS TO WORK 4DR	0	0
			2ND DUMP CLAMPS TO WORK 4DR	0	0
			DUMP TO WORK ALL	0.85	0
			DUMP LATCH TO WORK ALL	0.85	0
			BK UP CLAMPS TO WORK 2DR	0.85	0
			2ND DUMP CLAMPS TO WORK ALL	0.85	0
			CLAMPS TO WORK ALL	0.85	0
			2ND CLAMPS TO WORK ALL	0.85	0
			CLAMPS TO WORK 4DR	0	0
			R01 WELD	38.5	0
			R03 WELD	41	0
			2ND CLAMPS TO HOME ALL	0.85	0
			BK UP TO WORK	0.85	0
			RETRACT PINS TO WORK ALL	0.85	0
			RETRACT PINS TO WORK 2DR	0.85	0
			RETRACT PINS TO WORK 4DR	0	0

In this image, it shows the group objects with the Target and value. If you navigate to a higher level, then it will display a table and a graph as well.

## Navigating to a Higher Level

To navigate to a higher level you can do one of two things. You can click on the object tree icon and that will open the object selection window. What's the object selection window is open you can navigate down to the object you would like to view. You can drill down further or go to a higher level.



An alternate way to navigate to a higher level is to Simply click on the levels above the levels that you are currently at on the object string or address. When you click on an electric higher the screen will reload and display at the level selected.

**eEnvision Average Cycle Length** Configure Report Reset All

KTPO Area > LADDER >

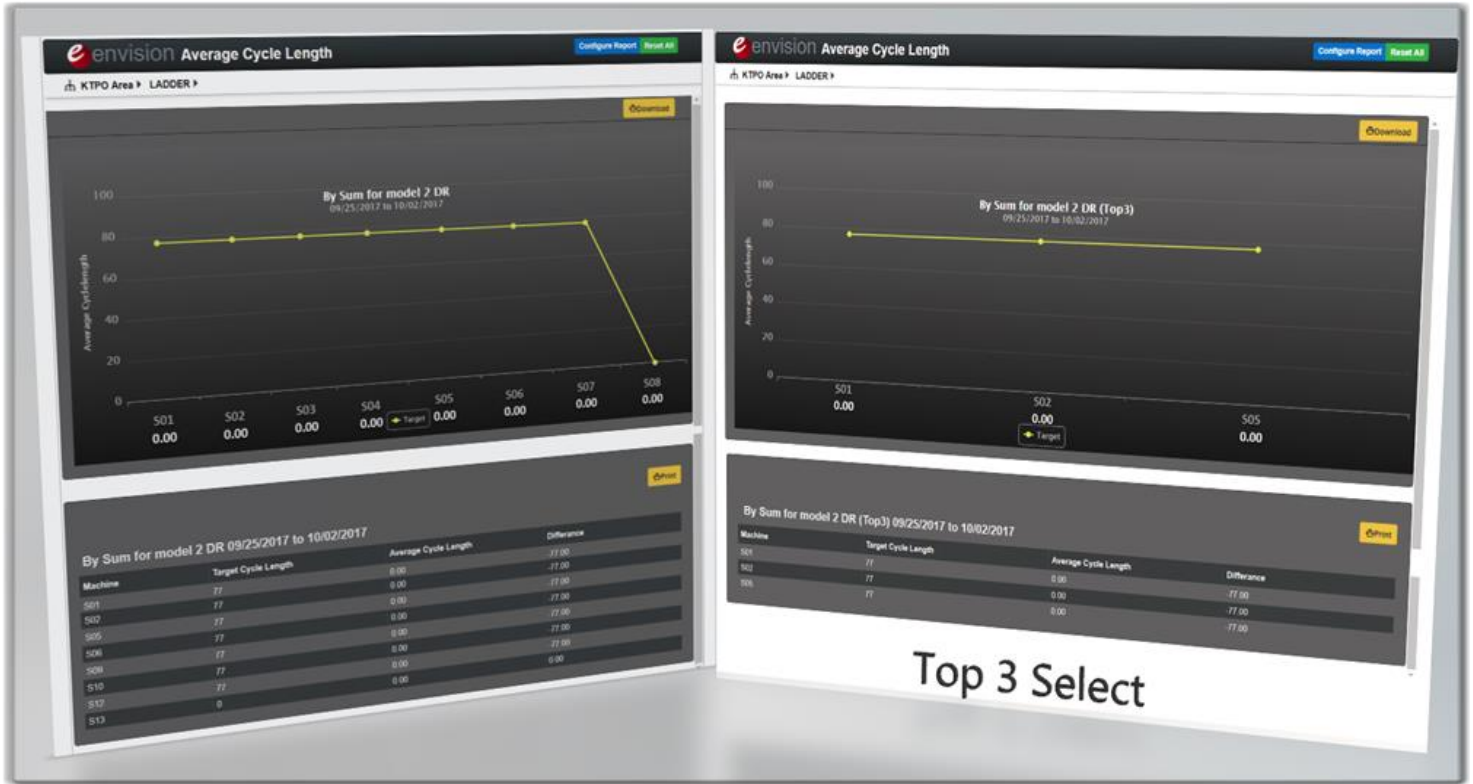


**By Sum for model 2 DR 09/25/2017 to 10/02/2017** Print

Machine	Target Cycle Length	Average Cycle Length	Difference
S01	77	0.00	-77.00
S02	77	0.00	-77.00
S05	77	0.00	-77.00
S06	77	0.00	-77.00
S09	77	0.00	-77.00
S10	77	0.00	-77.00
S12	77	0.00	-77.00
S13	0	0.00	0.00



Select Top 3 on the Configuration Report window to reload the current screen with the Top 3 Objects.



## Configure Report

### Configure Report

As it may be necessary to change the parameters of what you would like to view, you can click on the configure report button.

The 'Configure Report' dialog box has the following fields and controls:

- Date Range: 09/25/2017 to 10/02/2017
- Report \*: By Sum
- Models: (empty dropdown)
- Top 3:
- Buttons: Run, Close

This will reveal the configure report window. There you can make your changes to the date report model or select the top three or unselect the top three.

In this example, a change has been made to the Models data. A change from 2 DR to 4 DR PICK UP BUFFER B/DROP OFF FLR PAN.

Once you have made your changes you can now click the Run button to reload the new data.



The new window will appear with the changes that were made on the configuration report screen. In the upper graphing area there is an option to download this graph as a picture period in the lower table area there is a button that will allow you to download this table to an Excel file.

e envision **Average Cycle Length**
Configure Report Reset All

KTPO Area ▸ LADDER ▸

Download

**By Sum for model 4 DR PICK UP BUFFER B/DROP OFF FLR PAN**  
09/26/2017 to 10/03/2017

Print

**By Sum for model 4 DR PICK UP BUFFER B/DROP OFF FLR PAN 09/26/2017 to 10/03/2017**

Machine	Target Cycle Length	Average Cycle Length	Difference
S01	0	0.00	0.00
S02	0	0.00	0.00
S05	0	0.00	0.00
S06	0	0.00	0.00
S09	0	0.00	0.00
S10	0	0.00	0.00
S12	0	0.00	0.00
S13	0	0.00	0.00

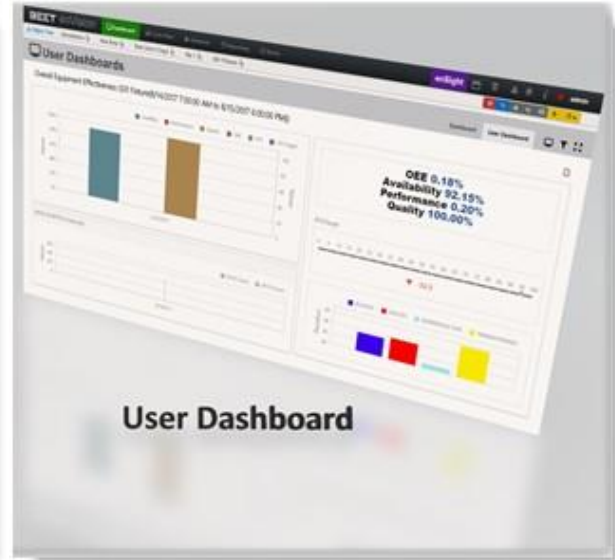
## Reset All



If there is a need to restart from the beginning, there is a reset all button available. Selection of this option will reset and return you to the opening object selection window. There you can start the whole process over.



## Dashboards 3.6



- [enVision Dashboard](#)
- [Dashboard Item and Description](#)
- [User Dashboard](#)

# enVision Dashboard 3.6

## Dashboard Overview



When you log into enVision, you will be greeted by the dashboard screen. There are several graphs available that provide critical object data in the Dashboard panel. You can navigate up or Down the Object Tree by using the Object Tree Icon or by utilizing the Object String next to it. A drop-down menu will appear if you hover over the Object Labels.

There is also a new User Dashboard Tab. See [User Dashboard](#).

## Dashboard Item and Description

**Navigation Panel:** The main panel used to navigate the enVision interface.

**Child History Table:** A quick overview of the cycle performance of your main factory zones.

**Offload Efficiency Table:** Lets you know how the how efficiently cycles are being completed.

**OEE Chart:** A chart that quickly visualizes OEE data calculated automatically by enVision.

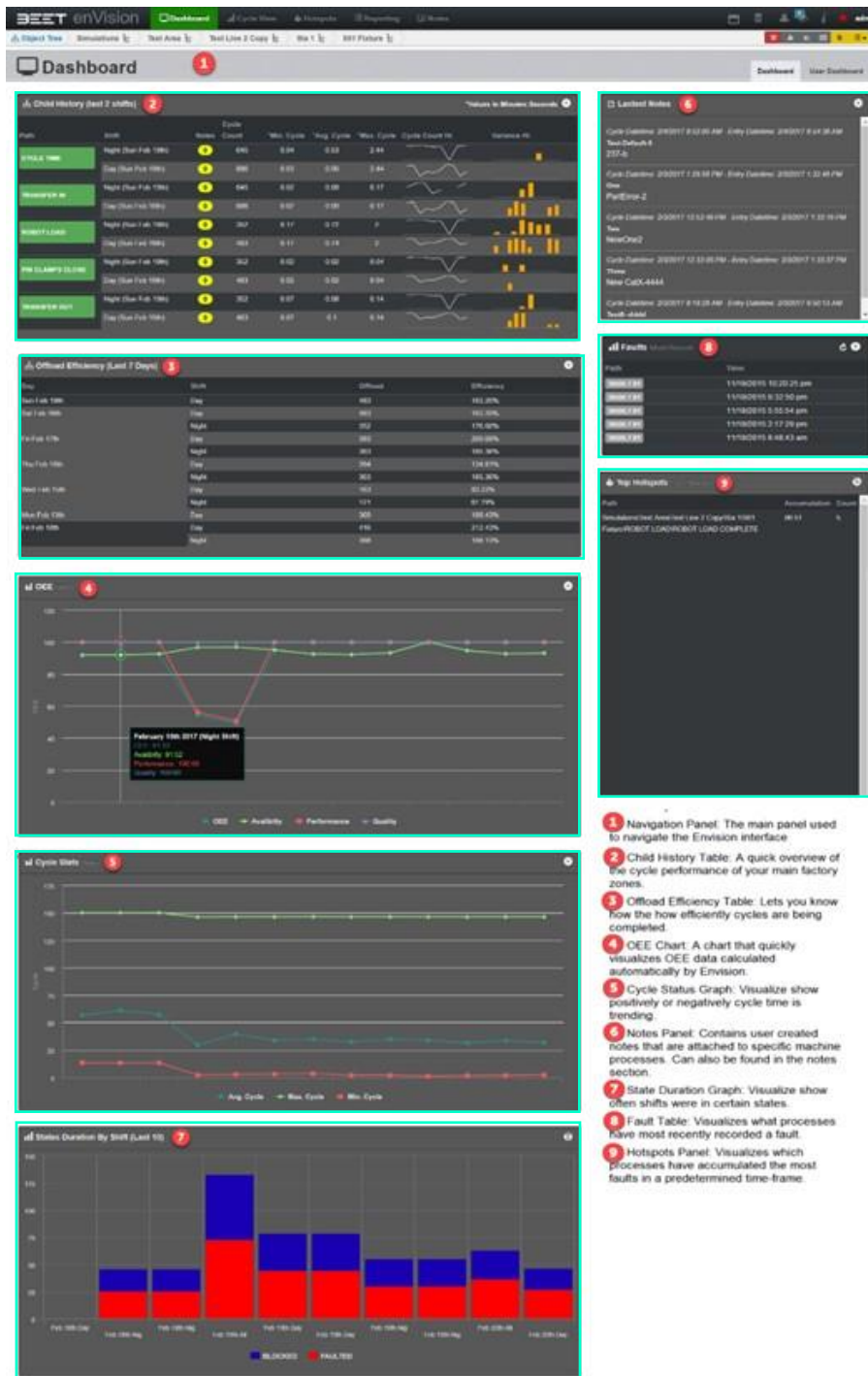
**Cycle Status Graph:** Visualize show positively or negatively cycle time is trending.

**Notes Panel:** Contains user created notes that are attached to specific machine processes. Can also be found in the notes section. **State**

**Duration Graph:** Visualize show often shifts were in certain states.

**Fault Table:** Visualizes what objects have most recently recorded a fault. **Hotspots**

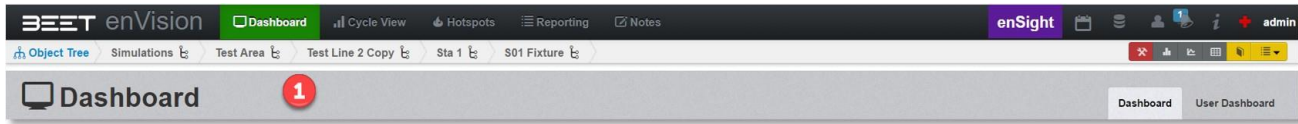
**Panel:** Visualizes which objects have accumulated the most faults in a predetermined time-frame.



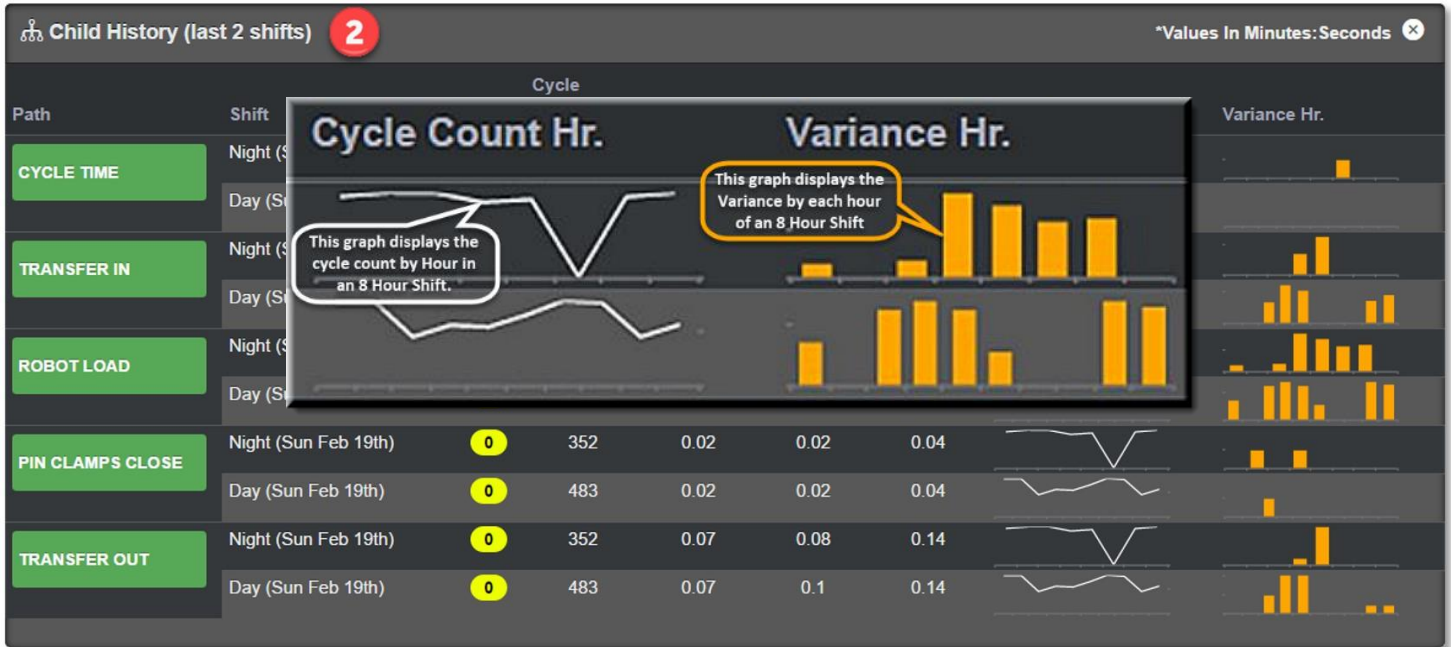
1. Navigation Panel: The main panel used to navigate the Envision interface.
2. Child History Table: A quick overview of the cycle performance of your main factory zones.
3. Offload Efficiency Table: Lets you know how the how efficiently cycles are being completed.
4. OEE Chart: A chart that quickly visualizes OEE data calculated automatically by Envision.
5. Cycle Status Graph: Visualize show positively or negatively cycle time is trending.
6. Notes Panel: Contains user created notes that are attached to specific machine processes. Can also be found in the notes section.
7. State Duration Graph: Visualize show often shifts were in certain states.
8. Fault Table: Visualizes what processes have most recently recorded a fault.
9. Hotspots Panel: Visualizes which processes have accumulated the most faults in a predetermined time-frame.

## Dashboard Item and Description 3.6

**Navigation Panel:** The main panel used to navigate the enVision interface.



**Child History Table:** A quick overview of the cycle performance of your main factory zones.



**Offload Efficiency Table:** Lets you know how the how efficiently cycles are being completed.

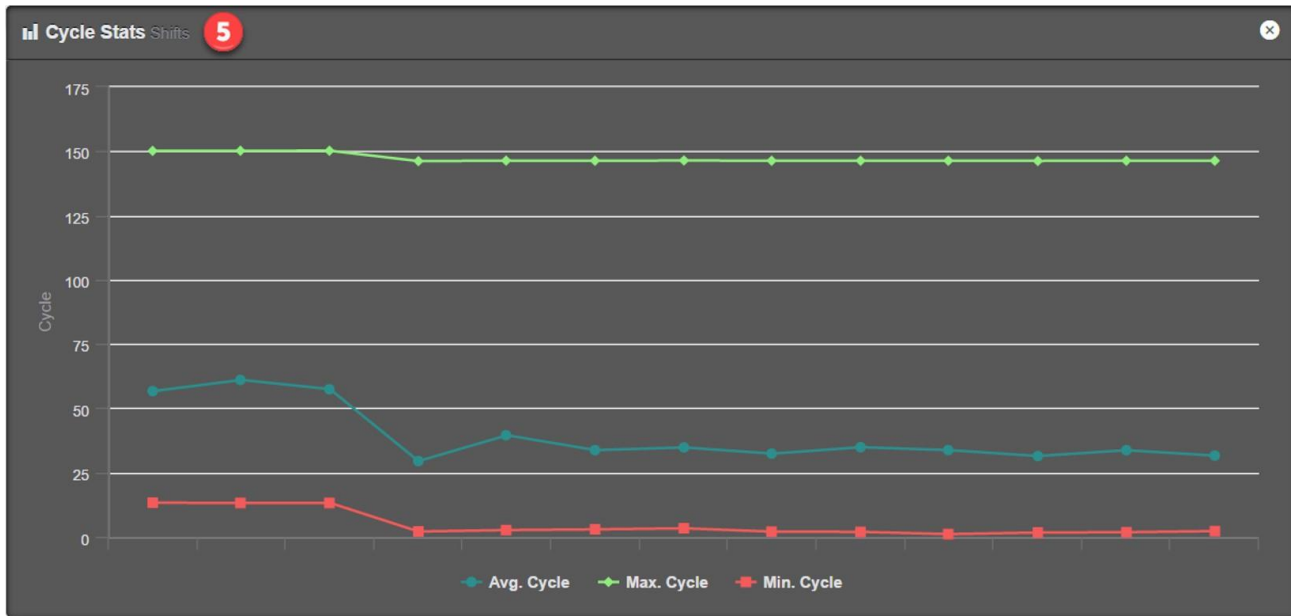
Day	Shift	Offload	Efficiency
Sun Feb 19th	Day	483	193.20%
Sat Feb 18th	Day	483	193.20%
	Night	352	176.00%
Fri Feb 17th	Day	393	200.68%
	Night	363	185.36%
Thu Feb 16th	Day	264	134.81%
	Night	363	185.36%
Wed Feb 15th	Day	163	83.23%
	Night	121	61.79%
Mon Feb 13th	Day	369	188.43%
Fri Feb 10th	Day	416	212.43%
	Night	388	198.13%



**OEE Chart:** A chart that quickly visualizes OEE data calculated automatically by enVision.



**Cycle Status Graph:** Visualize show positively or negatively cycle time is trending.

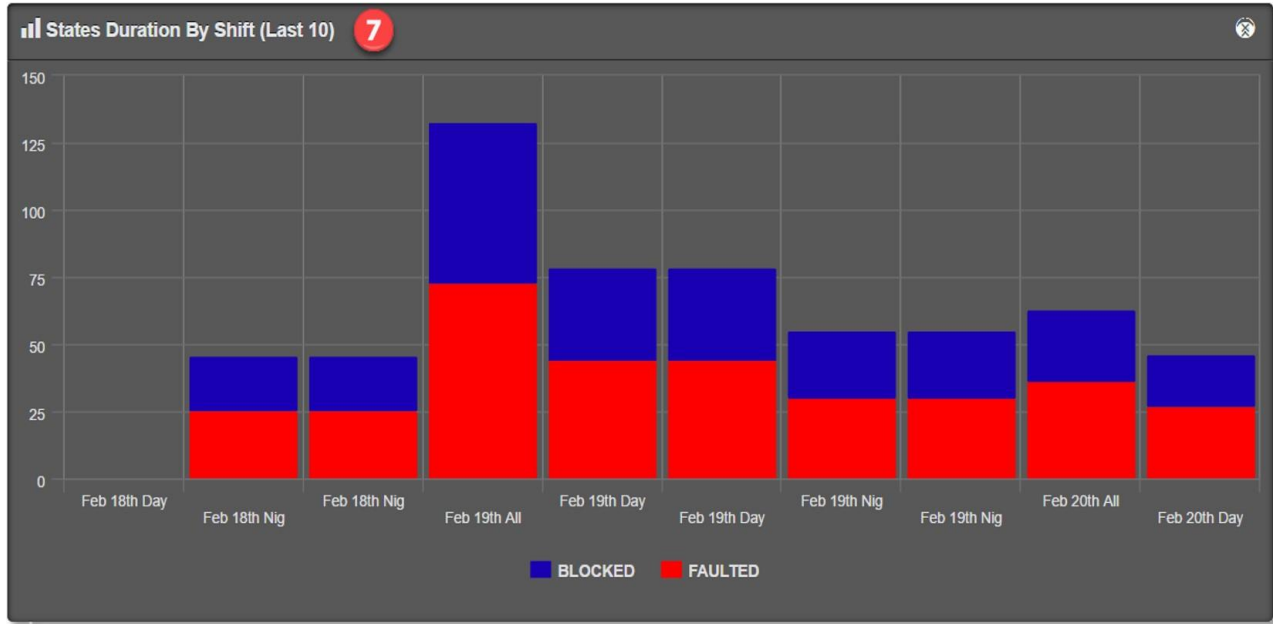


**Notes Panel:** Contains user created notes that are attached to specific machine processes. Can also be found in the notes section.

**Lastest Notes** 6

- Cycle Datetime: 2/4/2017 8:52:00 AM - Entry Datetime: 2/4/2017 8:54:38 AM  
Test-Default-5  
237-b
- Cycle Datetime: 2/3/2017 1:29:58 PM - Entry Datetime: 2/3/2017 1:32:49 PM  
One  
PartError-2
- Cycle Datetime: 2/3/2017 9:19:28 AM - Entry Datetime: 2/3/2017 9:50:13 AM  
Test8-dddd

**State Duration Graph:** Visualize show often shifts were in certain states.



**Fault Table:** Visualizes what objects have most recently recorded a fault.

Path	Time
S050LFX1	11/18/2015 10:20:25 pm
S050LFX1	11/18/2015 9:32:50 pm
S050LFX1	11/18/2015 5:55:54 pm
S050LFX1	11/18/2015 2:17:29 pm
S050LFX1	11/18/2015 8:48:43 am

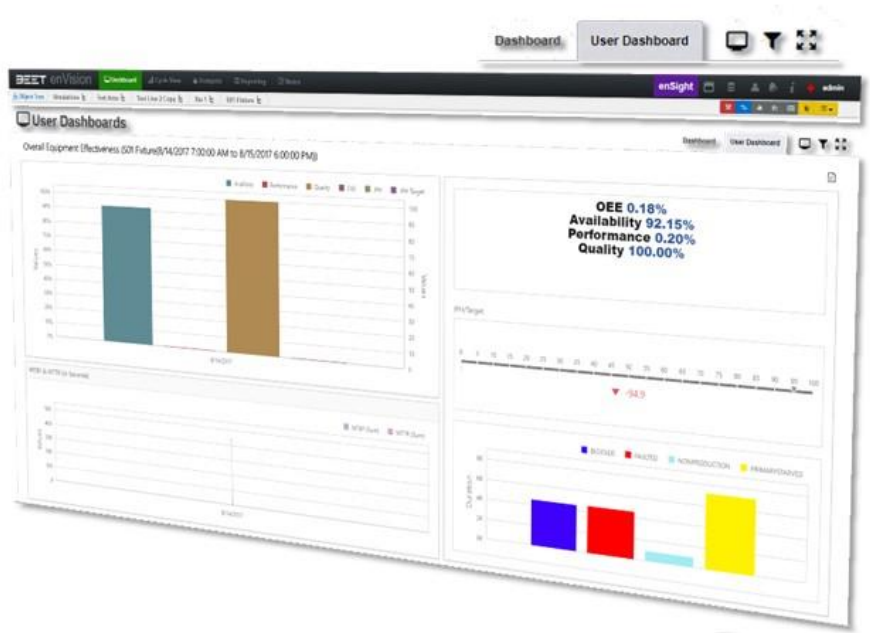
**Hotspots Panel:** Visualizes which objects have accumulated the most faults in a predetermined time-frame.

Path	Accumulation	Count
Simulations\Test Area\Test Line 2 Copy\Sta 1\S01	06:51	5
Fixture\ROBOT LOAD\ROBOT LOAD COMPLETE		

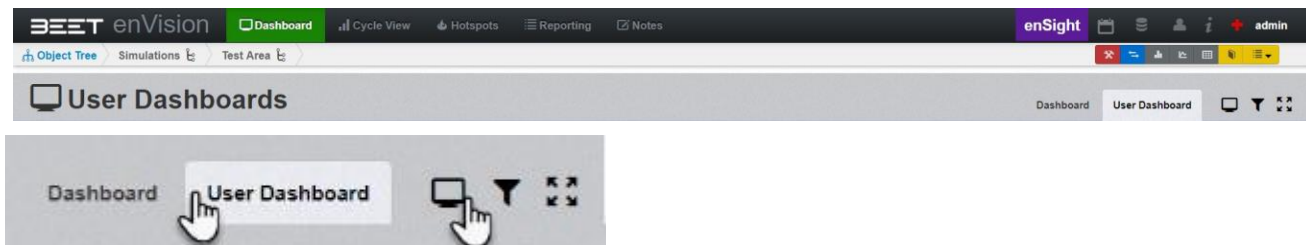
## User Dashboard 3.6



- [User Dashboard Template Menu](#)
- [Day/Shift Filter](#)
- [Filter](#)
- [Create New Dashboard](#)
- [Import Dashboard](#)
- [Template Actions](#)
- [User Dashboard Menu](#)



In the Dashboard section is the User Dashboard Tab. Clicking on this tab or the Monitor Tab will open a new window that will slide in from the right, containing dashboard templates.



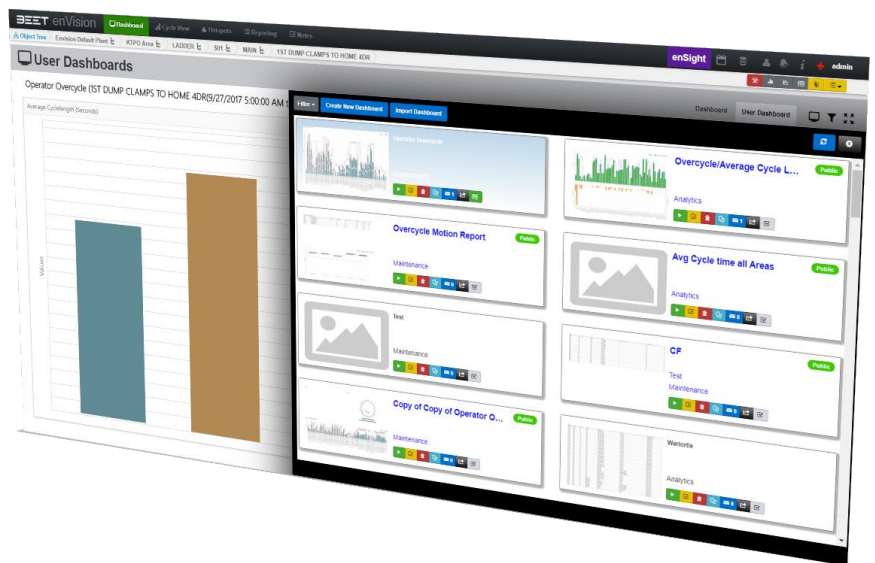
The window has a series of action buttons along the top of the window. In the window lies the previously created templates. In the top of the window, lies buttons for Filter, Create New Dashboard, Import Dashboard, Refresh and Close Window.



## User Dashboard Template Menu



Click on the Monitor Icon to open the User Dashboard Template Menu. On this menu, the user can select from all the Templates saved in the enVision program.





## Day/Shift Filter



The Day/Shift Filter allows a user to set the beginning and end date range to apply to the selected or created User Dashboard Template.

The screenshot shows the BEET enVision interface with the 'User Dashboards' section active. A 'Day/Shift Filter' is applied, showing a date range from '1st Shift 09/19/2017' to '1st Shift 09/24/2017'. The interface includes a navigation bar with 'enSight' and 'admin' options, and a breadcrumb trail: 'Object Tree > Envision Default Plant > ADTPO Area > LADDER > S01 > MAIN > 1ST DUMP CLAMPS TO HOME 4DR'. A 'Month' button is visible in the top right of the filter area. Below the main filter, there are 'Optional Filters' and 'Realtime(Current Shift)' buttons. A zoomed-in view of the date range is shown in a separate box below the main screenshot.

This block shows a 'Shift' button and a monthly calendar view. The calendar displays the months of August and September, with specific dates marked for the filter range.

Month/Shift button will allow the user to change the state of the range filter from a daily shift to month format. A month format will allow a greater range selection.

Optional Filters button will allow the user to apply filters to remove or add conditions as Shift, Shift Crew, Status, Classification.

The 'Optional Filters' panel contains four dropdown menus:
 

- Shift:** 1st Shift, 2nd Shift, 3rd Shift
- Shift Crew:** (Empty)
- Status:** Good, Watch, Warning, Fault
- Classification:** Unknown, Bodyside Supervisor, Clamps, COUNTPOINT

 At the bottom right of the panel are 'Realtime(Current Shift)' and 'Apply' buttons.



## Filter (User Dashboard 3.6)



The Filter button when selected, will show a drop-down window with a selection of Show All or My Dashboards. Selecting Show all will display all the created dashboards currently in enVision. Selecting My Dashboards will only display the dashboards that were created by your logged in profile. It also has a Category sorting feature that will let you sort the Dashboard by Categories types:

- Maintenance
- Analytics
- Production
- System
- Other



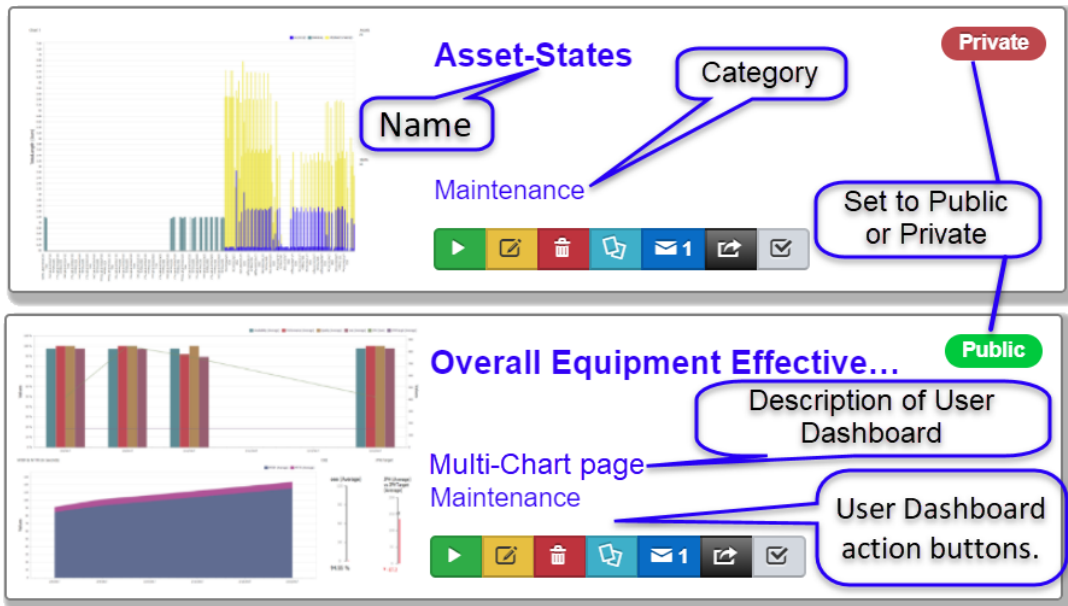
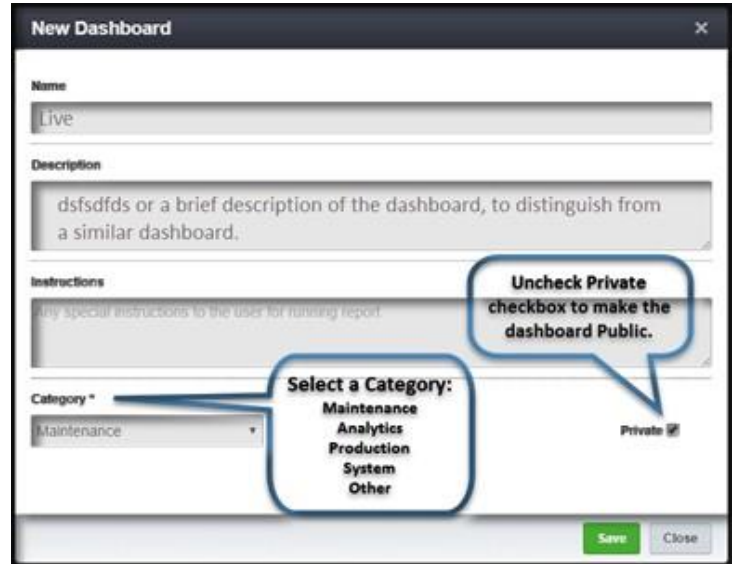
## Create New Dashboard (User Dashboard 3.6)

### Create New Dashboard

Selecting the **Create a New Dashboard** button will open the New Dashboard Window as seen below. In this window, you will input a **Name** for the Dashboard, a brief **Description** of the dashboard if needed, a choice of **Category** (Maintenance, Analytics, Production, System, or Other) and a check box that will allow you to save it as Public or Private. Selecting Private will not allow you to edit the dashboard unless you are logged in as the creator of it.

After the New Dashboard Setup screen is completed, select the “

**Save**” button, a new Dashboard Template will appear on the New Dashboard Selection window. All the data you inputted on the New Dashboard window, is now on the Dashboard Selection Template.

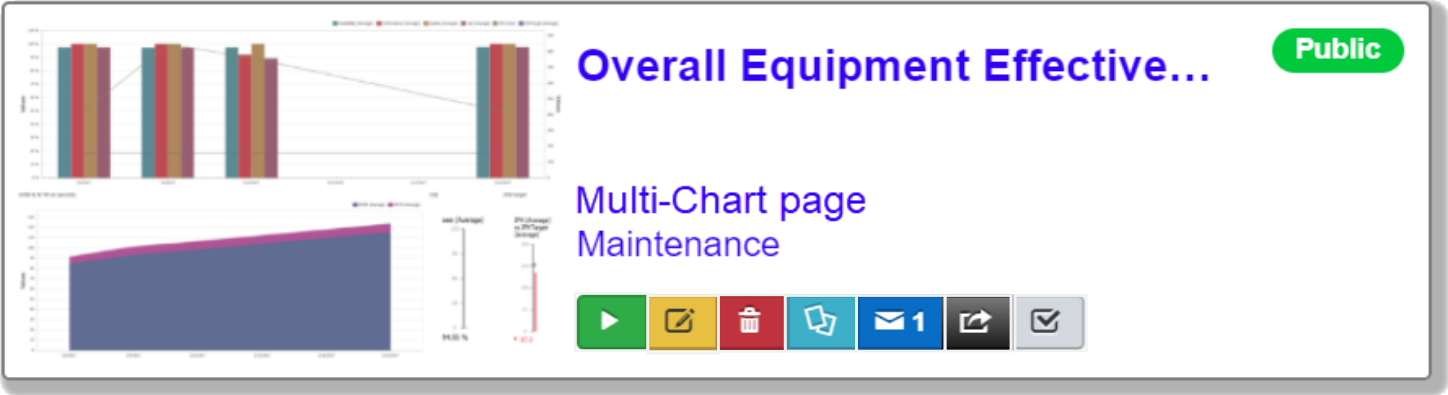


## Import Dashboard (User Dashboard 3.6)

Selecting the “**Import Dashboard**” button will open an explorer search window. Use this, to find and select the file you would like to import. Clicking on the button will invoke an explorer window for you to locate the XML file that was exported earlier.



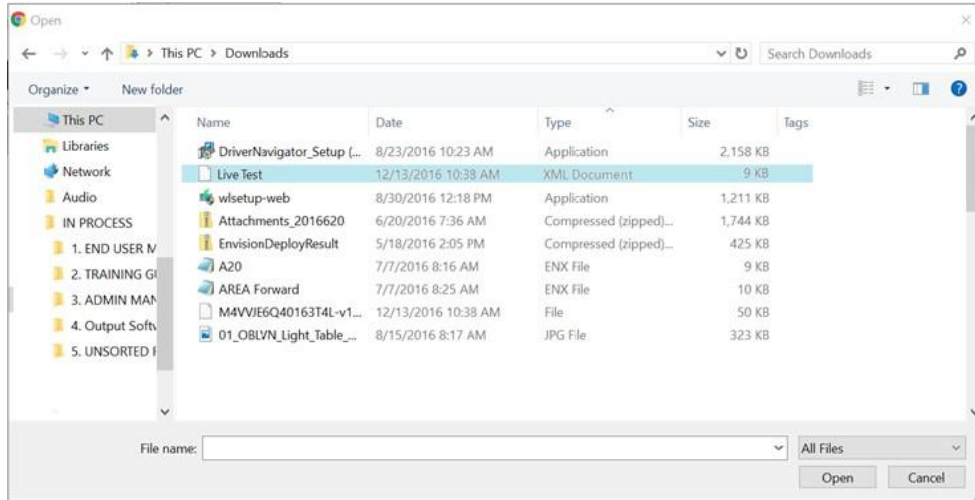
Filter ▾ Create New Dashboard Import Dashboard  



**Overall Equipment Effective...** Public

Multi-Chart page  
Maintenance

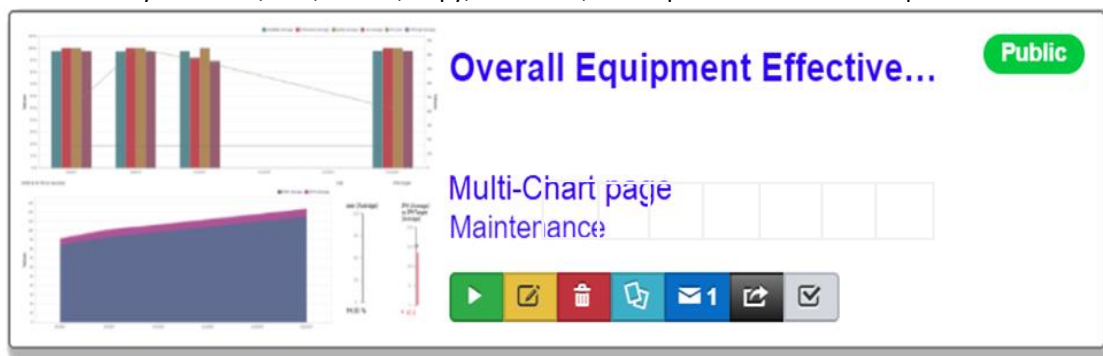
In this example, the Live Test was exported and was placed in the Download folder of the CPU it was exported from.



## Template Actions (User Dashboard 3.6)

In the Dashboard selection window, are separate Templates of different dashboards. They all have a series of action buttons to choose from. These buttons will allow you to Run, Edit, Delete, Copy, Subscribe, and Export the selected Template.

- [Run](#)
- [Edit](#)
- [Delete](#)
- [Copy](#)
- [Subscribe](#)
- [Export](#)
- [Default](#)



Run

The **Run** button, will open a new window with the selected Dashboard. This may take a few moments for the Dashboard to load. If the Dashboard loads, and there is no data for that time period, utilize the Day/Shift Filter to zero in on the days you would like to view.



Edit

The **Edit** button will open the select Dashboard very much like the run button does, but with an area to the left of the dashboard that contain the editing template. In this Editing Template, is a selection of icons that represent the settings and options to add, remove, edit, or change any part of the current template. Note: the editing can only be utilized if you are logged in as the creator of the template.



Delete

The **Delete** button is used to Delete the template from the Selection Panel. This can only **delete** the Public Template. The Private Templates cannot be Deleted unless you are logged in as the creator of it.



Copy

Use the **Copy** button to copy the template (**Live Test**). When the Monitor button is selected, it will show a duplicate template labeled as **Copy of Live Test** in the Template selection area.



Subscribe 0

Use this feature to **Subscribe** to the Selected Template.



Export

This feature will allow you to **export** this Template to the download folder, which then will be able to be imported to enVision.



Default

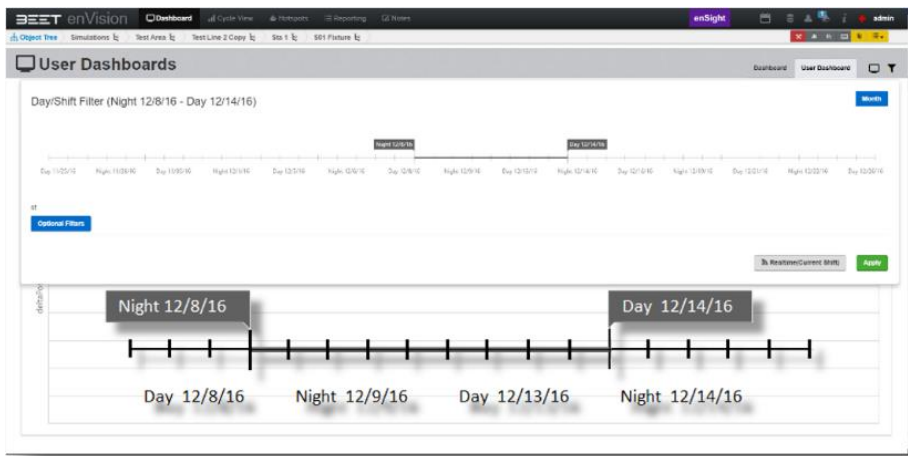
This feature dictates which Dashboard will open initially. If the Icon is **Green**, then this is the dashboard that will open. If it is turned off, then it will reopen the last dashboard that was viewed.

## Run (Template Actions)



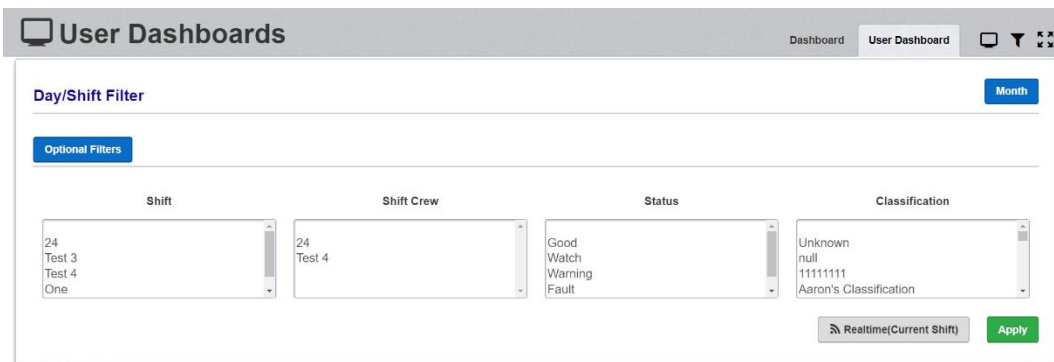
Clicking on the Run button on the dashboard that you selected. If the object is running on a current project, then an active screen will display. If not, select the **Filter** button on the far-right hand side next to the monitor. That will open the Day/Shift Filter, which is a range filter window that will allow you to select a start and end date.

From there, click and hold the start time slider and slide it to the Day/Shift you want to start your date set. Then click and hold the end time slider and move that to the Day/Shift you want to view. When everything is correctly selected, then click the **“Apply”** button.



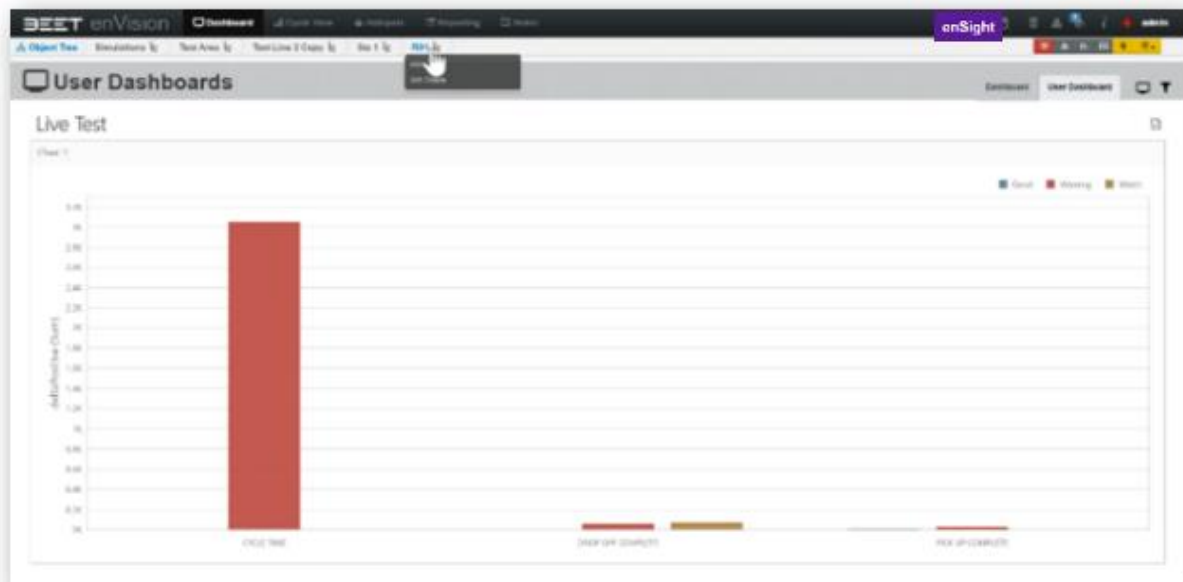
### Optional Filters

You can further filter your selection by clicking on the blue **“Optional Filters”** button. This button when selected will reveal a selection of four tables. Shift, Shift Crew, Status, and Classification.



After your filtering is completed, select the **“Apply”** button, the window will reload and display the data in the time that you selected.

While reviewing this screen, you can move the cursor over the bars to reveal the details of that bar. The details show the statuses of the cycle (**Good, Watch, Warning, and Missing**).



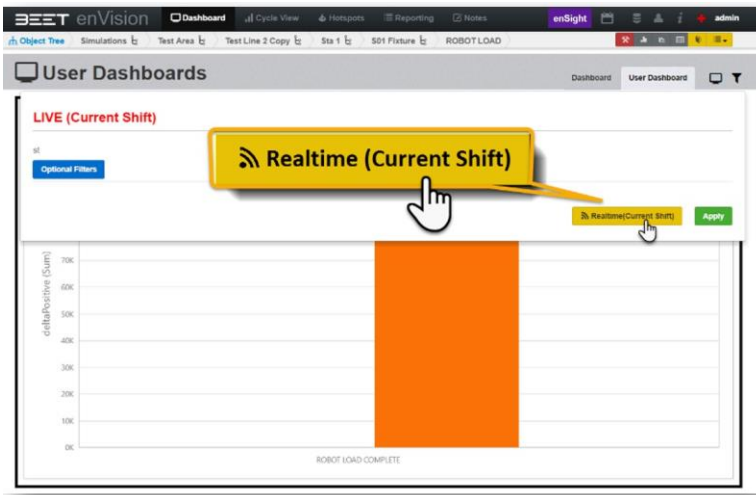


In the upper right-hand corner above the display area, is an **Export icon**. This is it used to export graph to either a PDF or an image. PDF's are generally good to send as email. Images can be made to print and display.

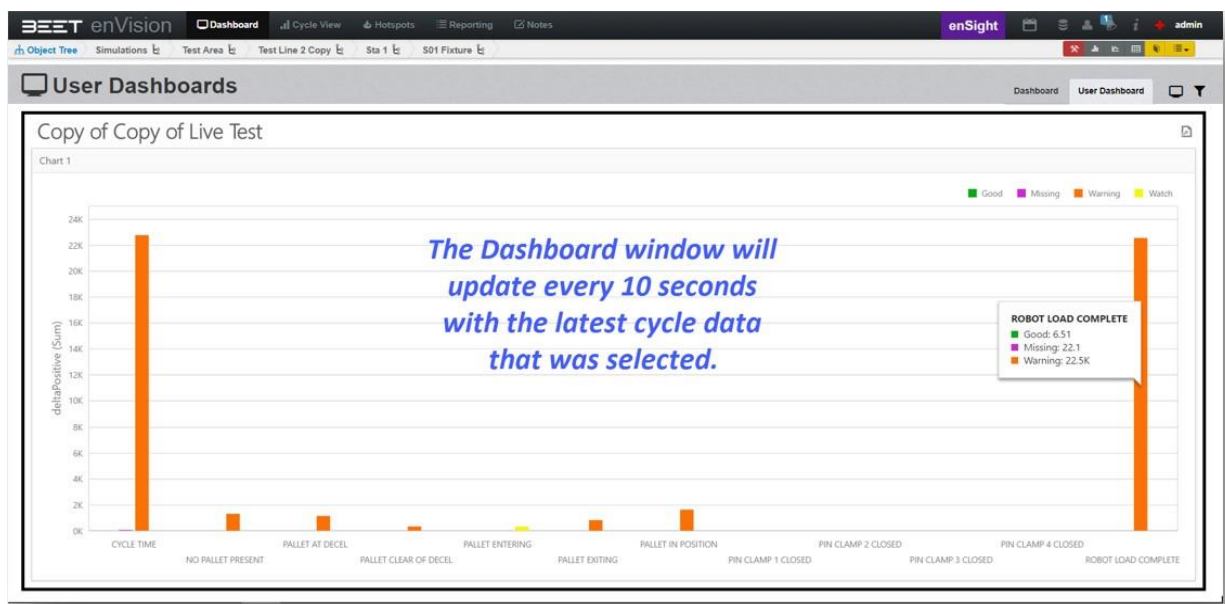
When selecting the export to image option, another window will open. It will be an export to image in the name of the test template that you are using. From there, in this form window, input the title name of the template. Next, check or un check the show the title checkbox. This will show the time on the template. Next input the **name** of the title. Below that is the filter **State**, select **None** or **Below**. Next, choose which image format choose between **PNG, Gif, or jpg**. Next, you can set the resolution. The resolution is set a default of **96 DPI**. In the event, you would like to display it on paper, before printing, it would be advised that you increase the DPI, so the printing and images, will be clearer and easier to read.

From here, check over your changes into the export to image window. If everything is satisfactory then **click Export**. If not, you can **cancel** or click the **Reset** button. The reset button will reset all the parameters and allow you to input them again.

### Realtime (Current Shift)



After the selection of the **Run** button, when there is current activity in the shift, you can select the **Realtime (Current Shift)** button, to the left of the **Apply** button. Selecting this button will reveal an *active* window that updates every 10 seconds. This offers a real-time look at your object level selection.



## Edit (Template Actions)

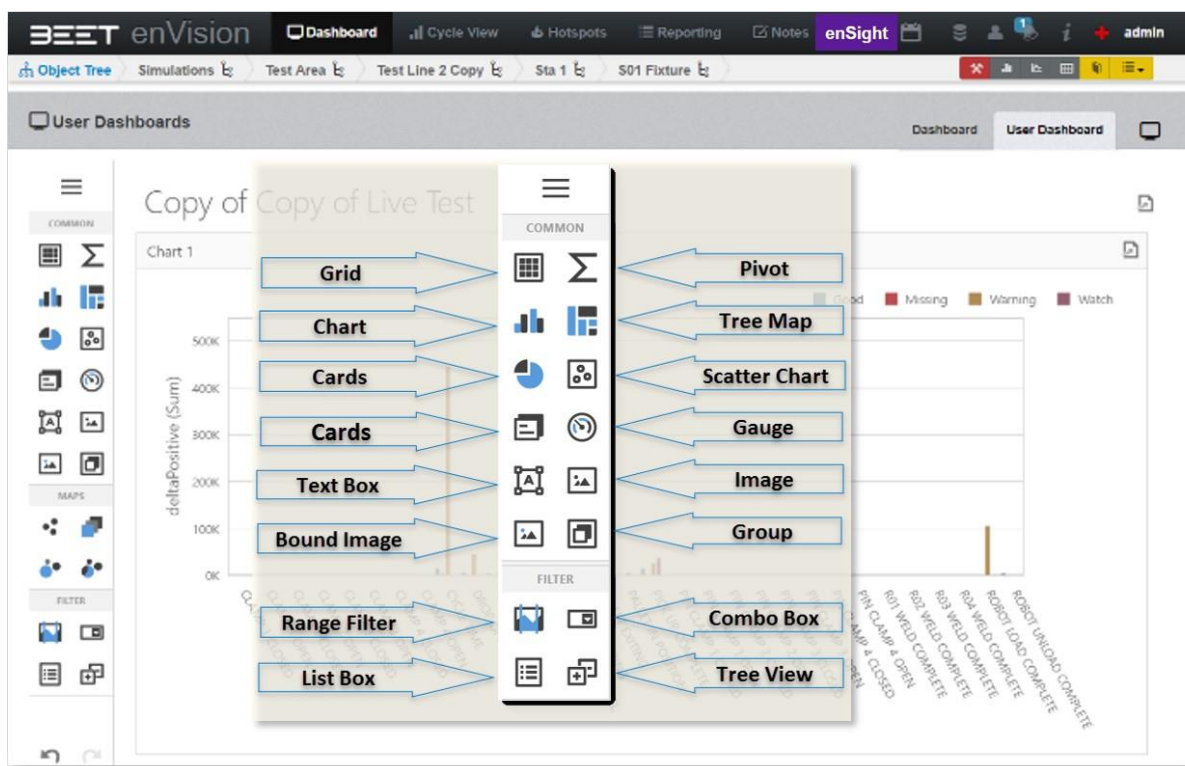
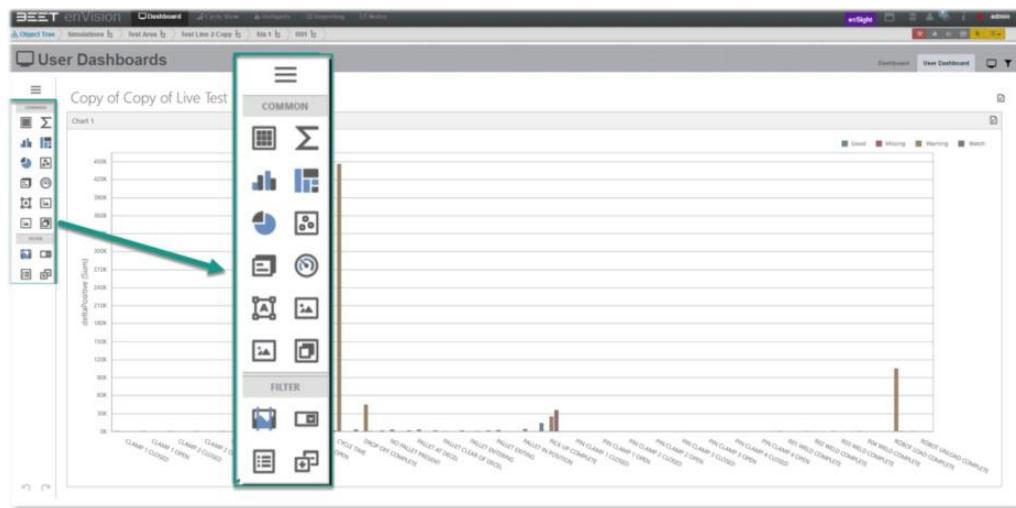


Next to the Run button is the "Edit" button. The

**Edit** button will reload the window with a Toolbar to the left of the graphing displaying area. From there you have a choice of a graphing menu of: Common and Filters.

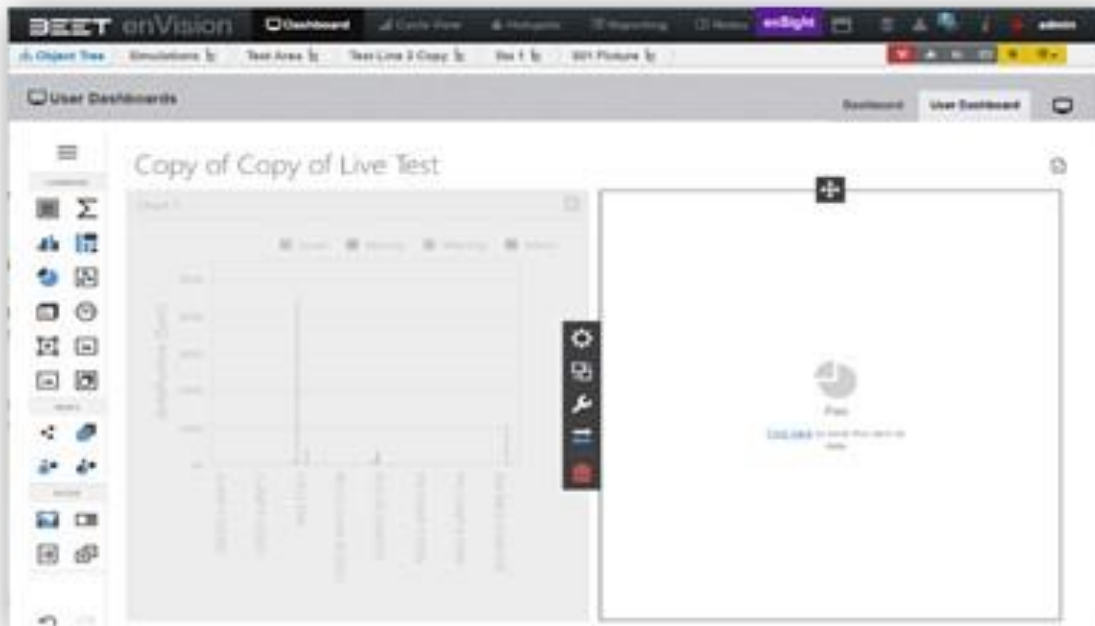
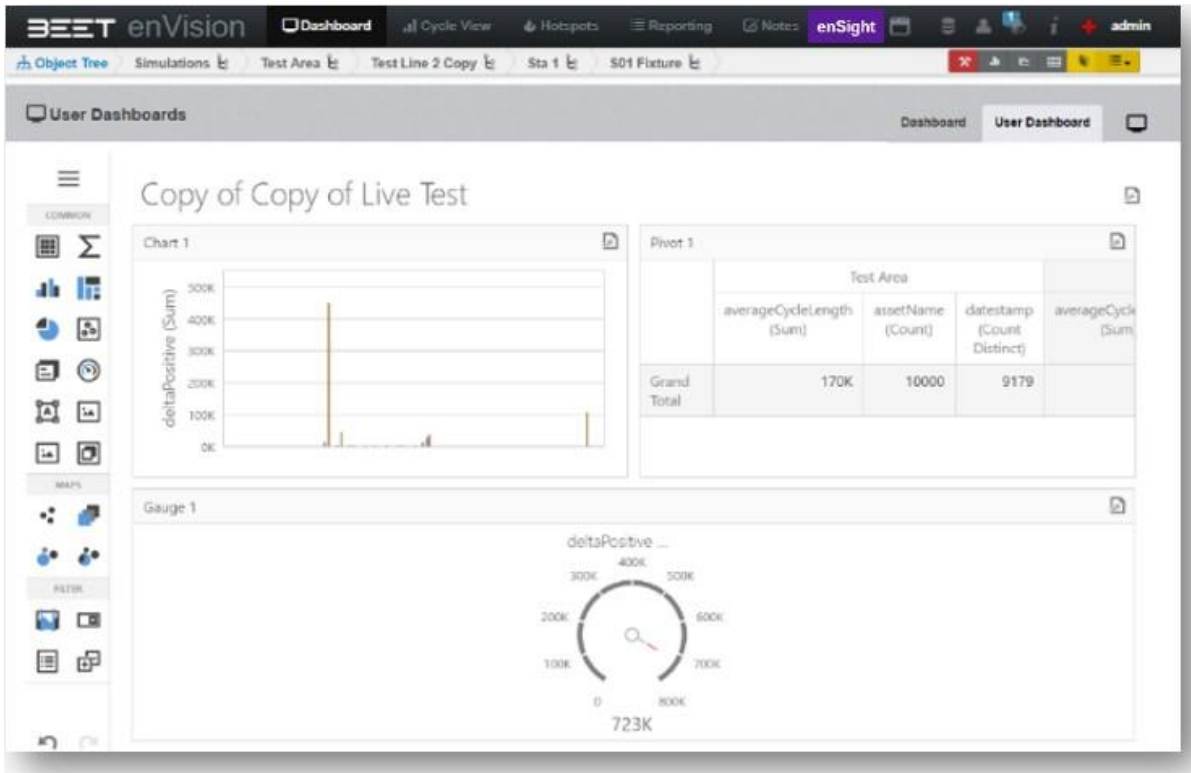
### Editing Toolbar Tab

The Editing Toolbar consist of various types of graphing tools. It uses common, maps, and filtering types of graphing tools. Clicking on any one of the icons will instantly add it to the display area. It will initially partition the graphing area equally. When you install a new graph, you can place it wherever you want in the display area. Simply click and hold on the placement tab at the top of the newly installed graph.





After the installation of any graph will require you to link it to the correct data source. Click on any of the graphs in the display area and a Setting Widget will reveal to the left of the selected graph. You will use this widget to Bind the data to the selected graph. It can also be used to edit or change the properties of the selected graph.



Use these toolbars to configure your selection.

### Binding

Binding allows you to input the objects you want to view.

### Interactivity

Interactivity gives you features, that enable interaction between various dashboard items.

### Options

The options tab, allows you to edit the Common, Axis X, Axis Y, Legend, Coloring, and Color Scheme.

### Convert To

The Convert To tab allow you to change from one graphical representation toanother. Note you may have to reconfigure the data binding if necessary.

### Delete

Use the Delete tab to remove the selected graphical representation from the display area.

**Binding**

Binding allows you to input the objects you want to view.

**Interactivity**

Interactivity gives you features, that enable interaction between various dashboard items.

**Options**

The options tab allows you to edit the Common, Axis X, Axis Y, Legend, Coloring, and Color Scheme.

**Convert To**

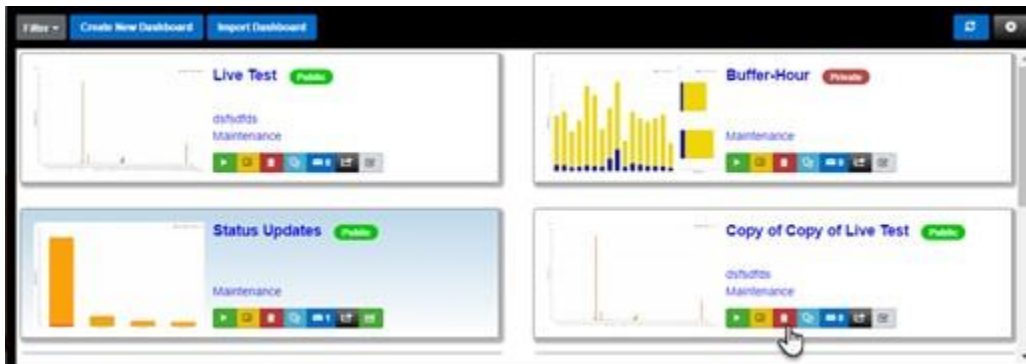
The Convert To tab allows you to change from one graphical representation to another. Note you may have to reconfigure the data binding if necessary.

Use the Delete tab to remove the selected graphical representation from the display area.

## Delete (Template Actions)

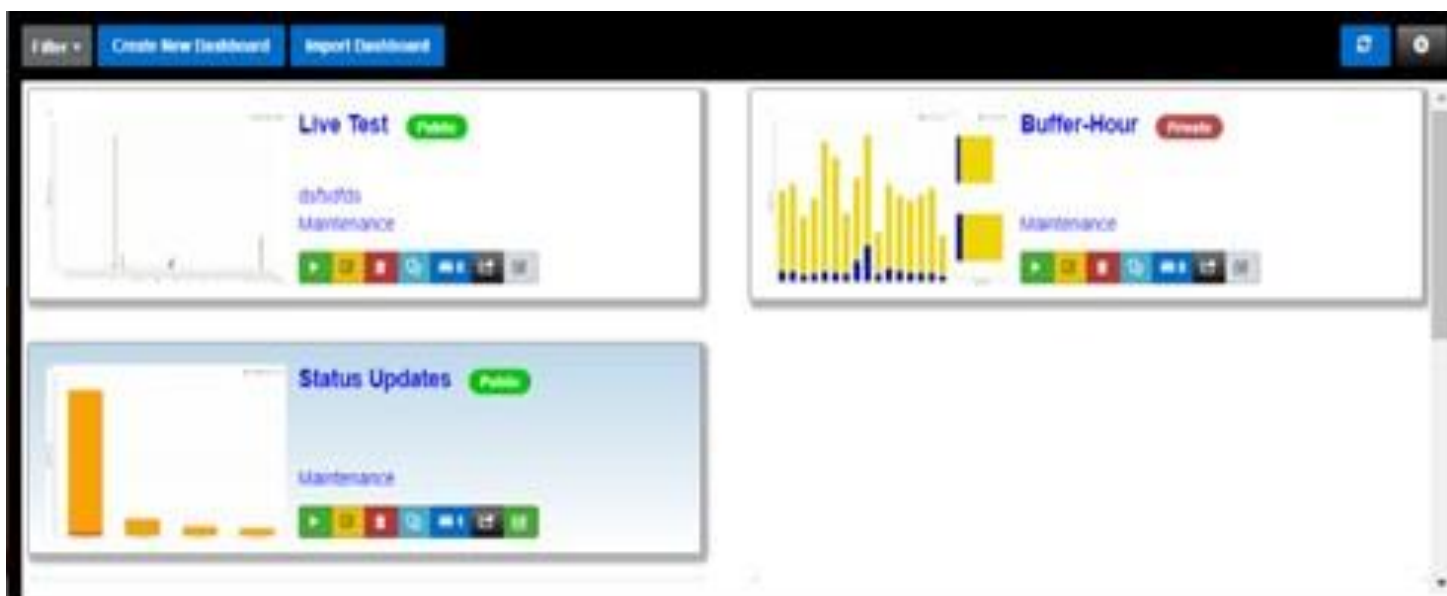


The **Delete** button is used to Delete the template from the Selection Panel. Simply select the red Delete button and the Dashboard Report and the Template on the selection page will be removed.



**Note:** This can only delete the Public Template. The Private Templates cannot be Deleted unless you are logged in as the Admin or logged in as the creator of it.

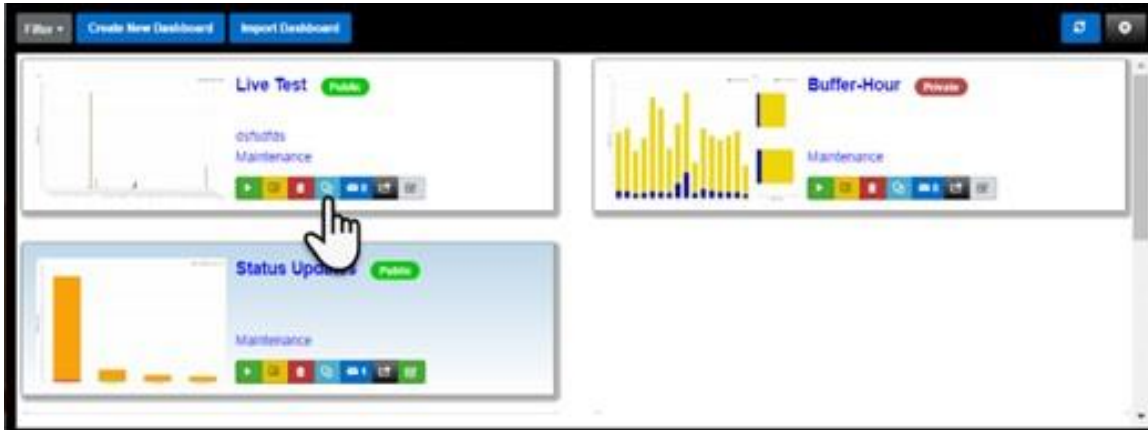
Please ensure that this Dashboard report is not being utilized by anyone else before it is Deleted permanently.



### Copy (Template Actions)



Use the **Copy** button to copy the template (**Live Test**). When the Monitor button is selected, it will show a duplicate template labeled as **Copy of Live Test** in the Template selection area.



It is best practice to make a copy to edit or augment. By doing this, you will be able to have a perfect reference to base your model off and it can be used to revert your copy back to the original state.



## Subscribe (Template Actions)



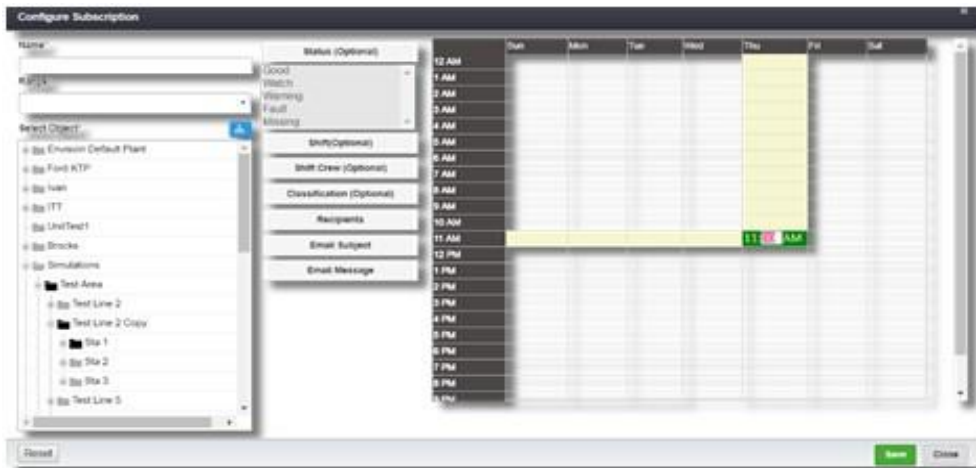
Click on the blue “Subscribe” button to use this feature to **Subscribe** to the Dashboard Report you have selected. The Subscription emails contain direct links to the report. Simply configure the report by adding a Name for the report, range of dates, the navigated object to subscribe to, Other option, and an Email address with Message.

This will work in conjunction to the conditional notifications feature. It will allow the users to be notified by email or text message, when certain conditions are met.

The Notifications can also be linked to a report via a subscription. When a notification is sent, it will invoke that subscription and send the attached dashboard or report to the recipient.

First, input a Name you would like to call the Report (there may be several subscriptions so, this would be ideal to identify between several similar subscriptions). Enter a Data Range (Last N Hours/Days, Current Shift, Last Shift, Today, Yesterday, Weeks, Months, etc.). Navigate to the object you would like to view. Select the optional data such as Status, Shift, and Shift Crew. Input the Recipient(s), Email Subject, and Email Message.

Set the time and day you would like to have the Subscription sent to you by utilizing the excel based selection chart. Select a cell and the Hour will appear. Click on the minute and set it to your desire. Once everything is set, click the Save button.



## Optional and Email Settings

In the image below, shows the editing selection boxes of each of the Optional and Email Settings.

**Range** – A predetermined range of time you would like to view.

**Status** – Good, Watch, Warning, Missing, or Fault.

**Shift** – The time that the shift takes place.

**Shift Crew** – One of the multiple crews in a single shift.

**Classifications** – The classification of the object.

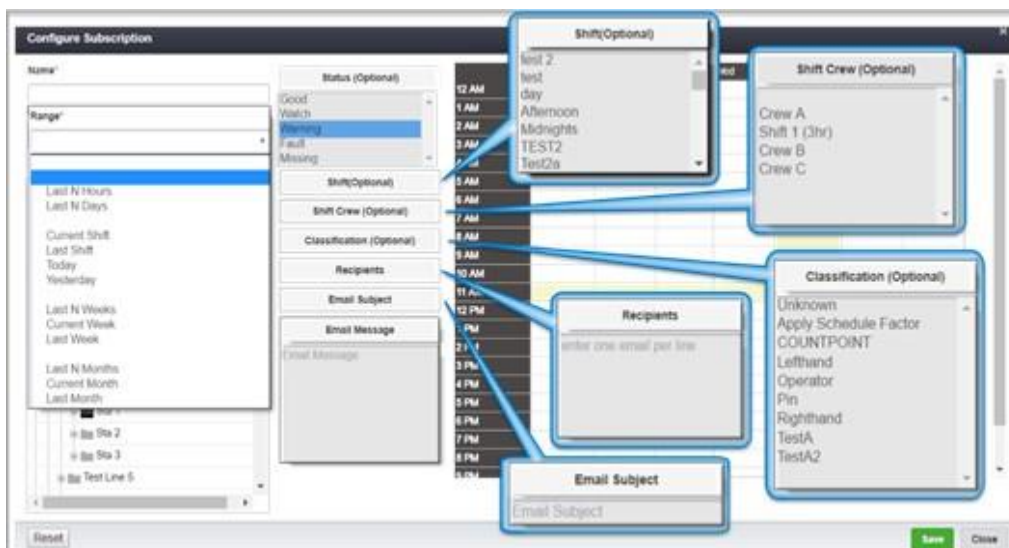
**Recipients** – The person or Person’s email addresses that you would like to send it to.

**Email Subject** - The subject name of the email. Note there may be several related subscriptions, so this would be a way to distinguish between 2 or more similar subscriptions.

**Email Message** – Personal message about the subscription.

After every parameter is set to your desire, click the **Save** button to initiate the subscription, or **Close** to close the window.

Though Notification and Subscription are very similar in some ways, there are many differences in the use and functions of these features. Below is a table of comparisons between Dashboard/Report Subscriptions and Conditional Notifications.





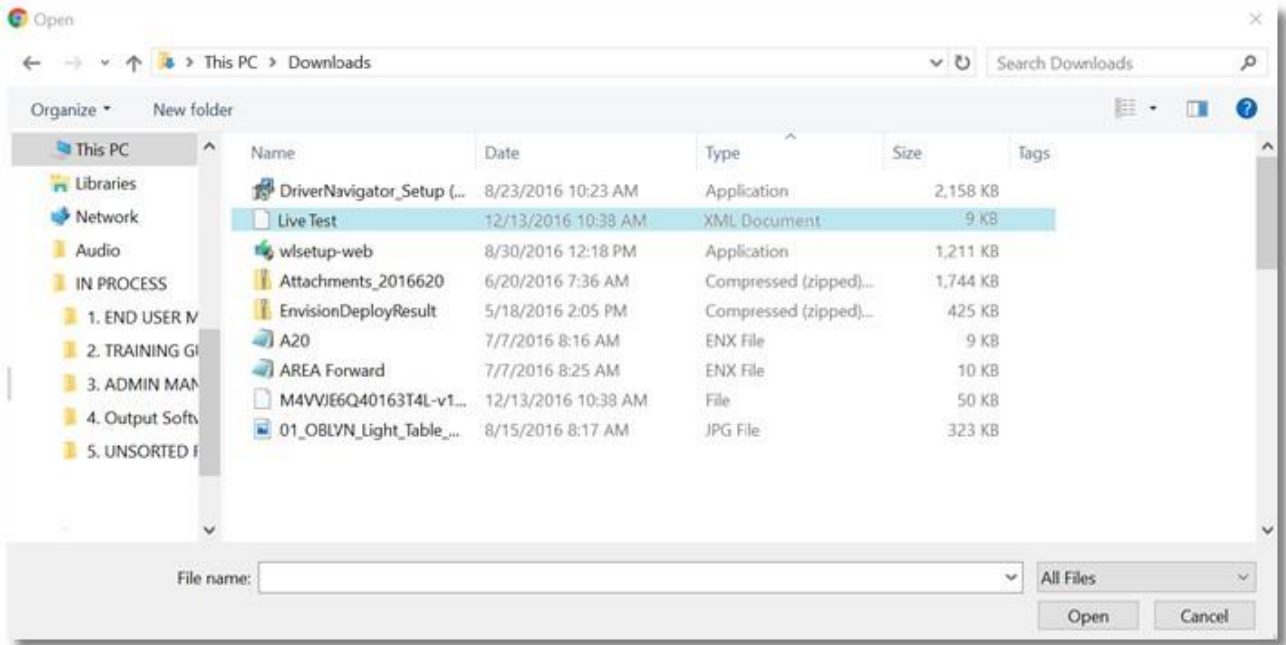
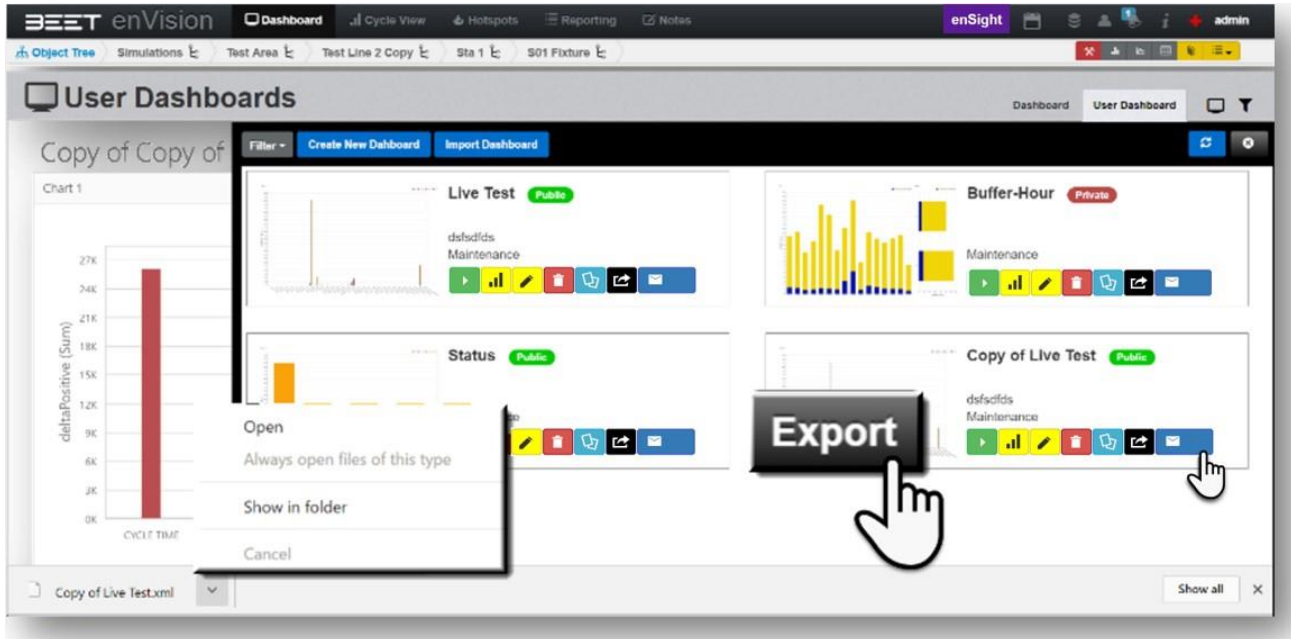
## enVision 3.6 - Comparison Chart

Feature	Dashboard/Report Subscription	Conditional Notification
Trigger Point	Time based Schedule	<p>When condition based on measure and time window is satisfied.</p> <p>Available measures are:</p> <p>Overcycle - duration in mins or no. of occurrences</p> <p>Blocked State - duration in mins or no. of occurrences</p> <p>Starved State - duration in mins or no. of occurrences</p> <p>Faulted State - duration in mins or no. of occurrences</p> <p>Available Time Windows are:</p> <p>Hour, Shift, Day, 7 Days, and 30 Days</p>
Message Content	Dashboard/Report as attachment, E-mail body and Direct Web Link	Simple text, or dashboard/report when linked to a subscription
Attachments	Dashboard/Report PDF, XLS	Dashboard/Report PDF, XLS only if linked to a subscription
Recipient(s)	Single or multiple e-mail addresses	Single e-mail or phone no. for texts. Multiple e-mails only if attached to subscription
Limit on Number of Messages	Controlled by subscription schedule - no upper limit	Can be adjusted, but usually 25 per day per notification
Object Level	Works at any level	Asset Level Only

## Export (Template Actions)



This feature will allow you to **export** a Template to the download folder. Simply click on the Export button, and the XML file will download the file to Download folder on the computer. From there, it can be imported to another enVision program if needed.



## Default (Template Actions)

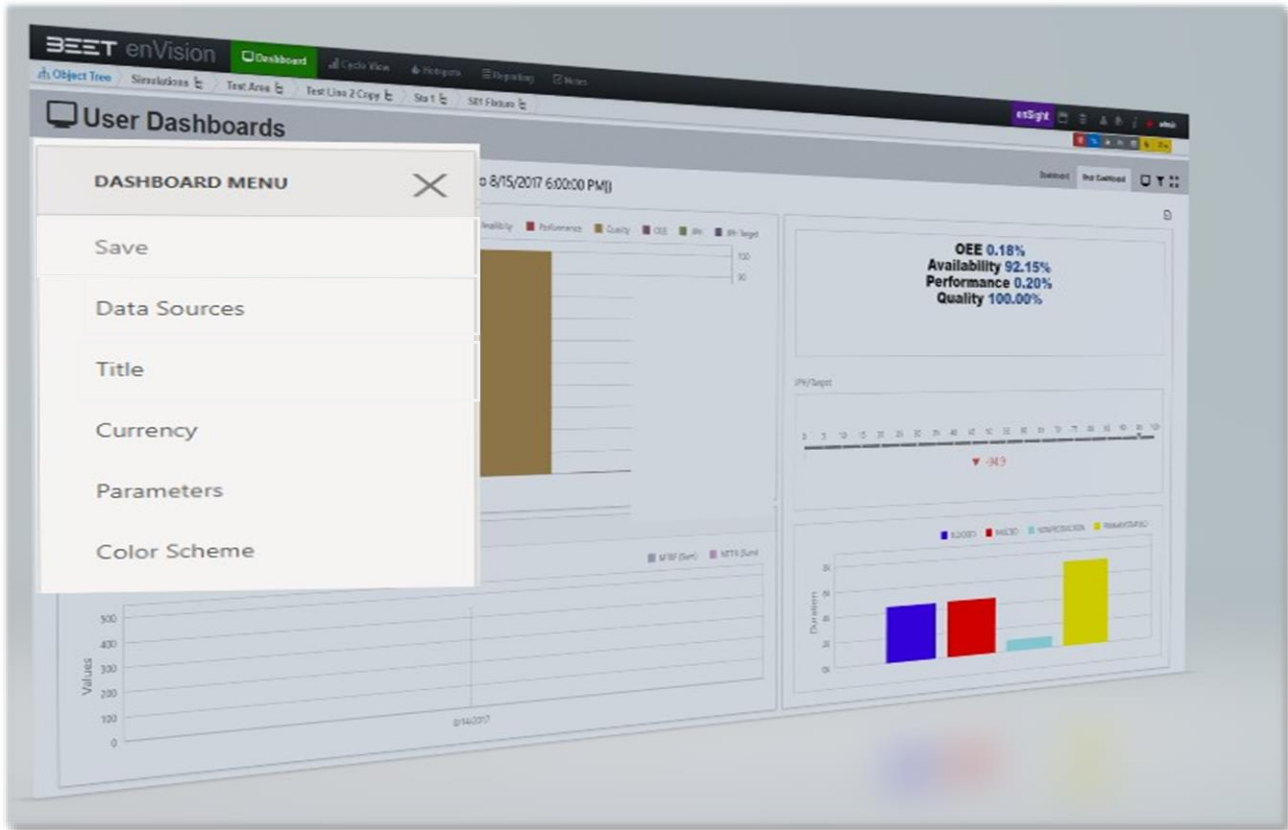
The default option is used to determine which User Dashboard opens when the Dashboard is initially opened or activated.

## User Dashboard Menu (User Dashboard 3.6)

### DASHBOARD MENU

Above the Dashboard Icons is an tab Dashboard Menu Tab . This tab consists of the save option and the following tabs: Data sources, titles, currency, parameters, and color scheme.

- [Save](#)
- [Data Sources](#)
- [Create Data Source](#)
- [Filter Editor](#)
- [Creating a Calculated Field](#)
- [Add Calculated Field](#)
- [Parameters](#)



### Save (UDM)

The same option is used to save your work. Once it is saved it cannot be reverted. Ensure that your work is ready to be saved, before you select it.

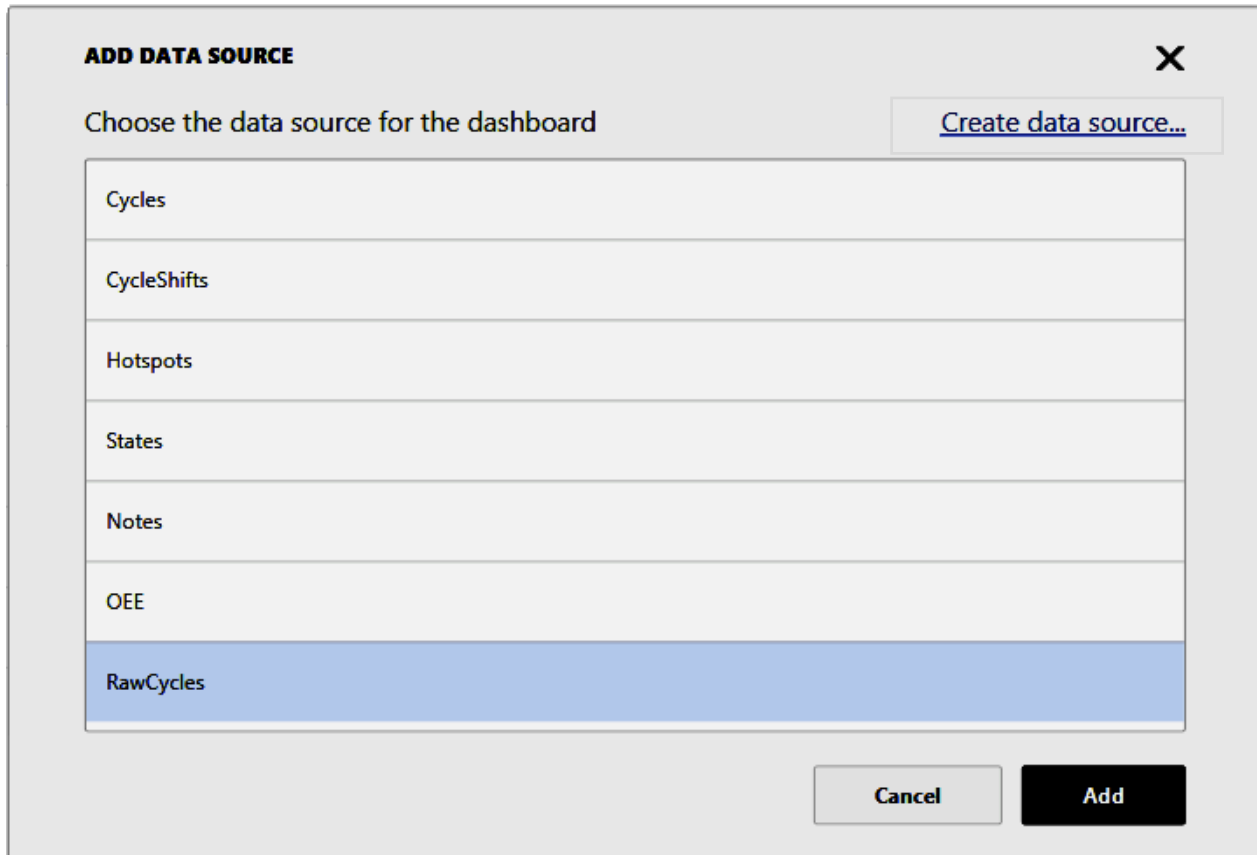
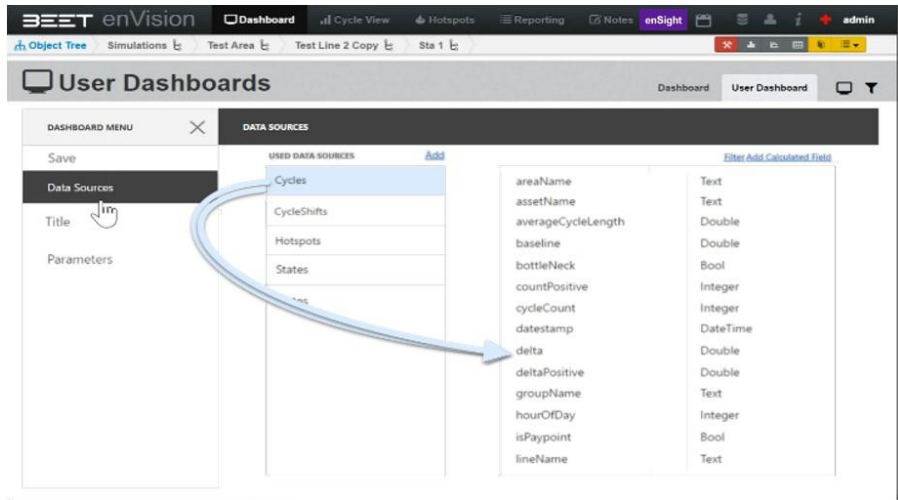


## Data Sources (UDM)

When you select the data sources tab, it opens a data sources window to the right. It has two columns, the USED DATA SOURCES, and the Dashboard items related to the Data Sources. The use data sources in this example consist of Cycles, cycle shifts, Hotspots, States, and Notes.

Depending on which data source you selected, the list will repopulate to the right. This is a list of common enVision object names and functions that are associated with each data source, such as area name, asset name, Baseline, cycle count, etc.

To add an additional data source, click on the Add link on the top of the Used Data Sources column. This action will reveal the ADD DATA SOURCE Window. In this window, it will display the Data Sources available as well as an option to create one by use of the Create Data Source link on the top right hand side of the choices.





## Create Data Source (UDM)

Clicking on this link will open another window, a Dashboard Data Source Wizard window. There will be two options available, make a choice of either, **Local SqlServer** or a **Default Connection**. Select to proceed to the next window to: **Cre ate a Query** or **Select a Stored Procedure**.

### Dashboard Data Source Wizard

Choose a data connection.

LocalSqlServer
DefaultConnection

Cancel      Next      Finish

## Filter Editor (UDM)

And +

When applying filtering to a specific dashboard item, per the current parameter value, use the **Filter Editor**.

In the Filter Editor, you can compare a field value with the following objects. Click on the Filter Link above the 2<sup>nd</sup> table in the Data Sources window. The Filter Editor will open. In this window, will be an and area with a And icon in it. Hover over the And icon and a green + sign will appear. From there, you can either click on the And, or click on the + sign.

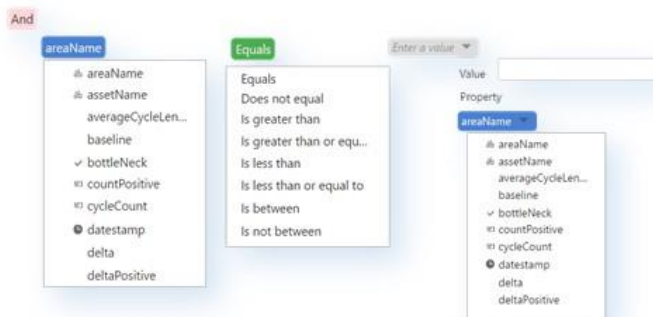
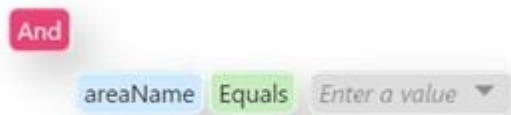


Clicking on the And will reveal a choice of several items. **And, Or, Not And, and Not Or**. Selecting one of these will display it in place in the window. This is the start of your filter.

Now click on the + sign. Clicking on the + sign will open a drop down window that will offer 2 choices. **Add group** or **Add condition**.



Add group will add another And sign below and right of the top Filter. The icon will have a red X on the left, and a green + sign on the right. Clicking the red X will delete the added group.

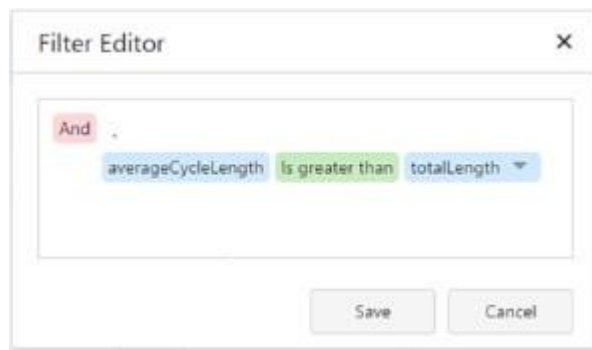


Clicking on the Add Condition option will reveal a set of configurable strings. By default, it will be as follows: **areaName Equals Enter a value 6**.

Click on the areaName, and a dropdown table will reveal. It will contain all the possible parameters available for your selection. Choose the proper parameter and it will appear in place of the previous areaName.

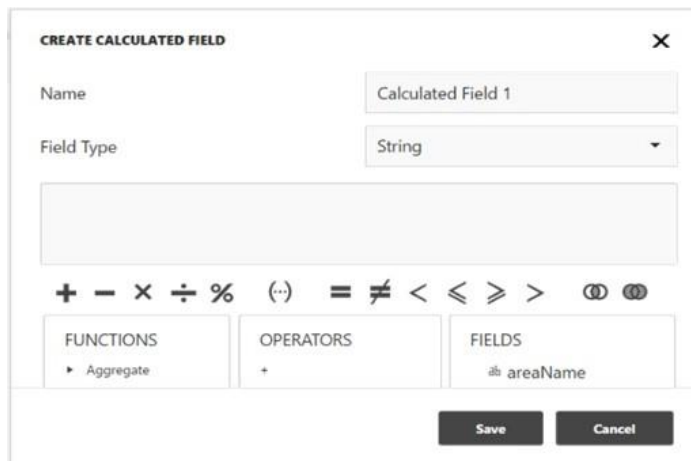
Click on the Equals label, and it will reveal a drop-down table to choose the operators you would like to use. Click on your choice and it will appear in place of your previous operator.

In the Enter a Value, clicking on the box will open an editing box for you to input a value based upon your previous selections. Click on the drop-down tab, and it will offer you two options to choose from, Value and Property. Choosing Value will open an editing box just the same as if you clicked on the box as previously explained. Choosing the Property option will open a table so parameters similar to the areaName parameter as the previous one.



## Creating a Calculated Field (UDM)

The User Dashboard provides the capability to create calculated fields that allow you to apply complex expressions to data fields that are accessed from the dashboard's data source. You can use these fields in data visualizations as regular data source fields.



## Add Calculated Field

### TITLE

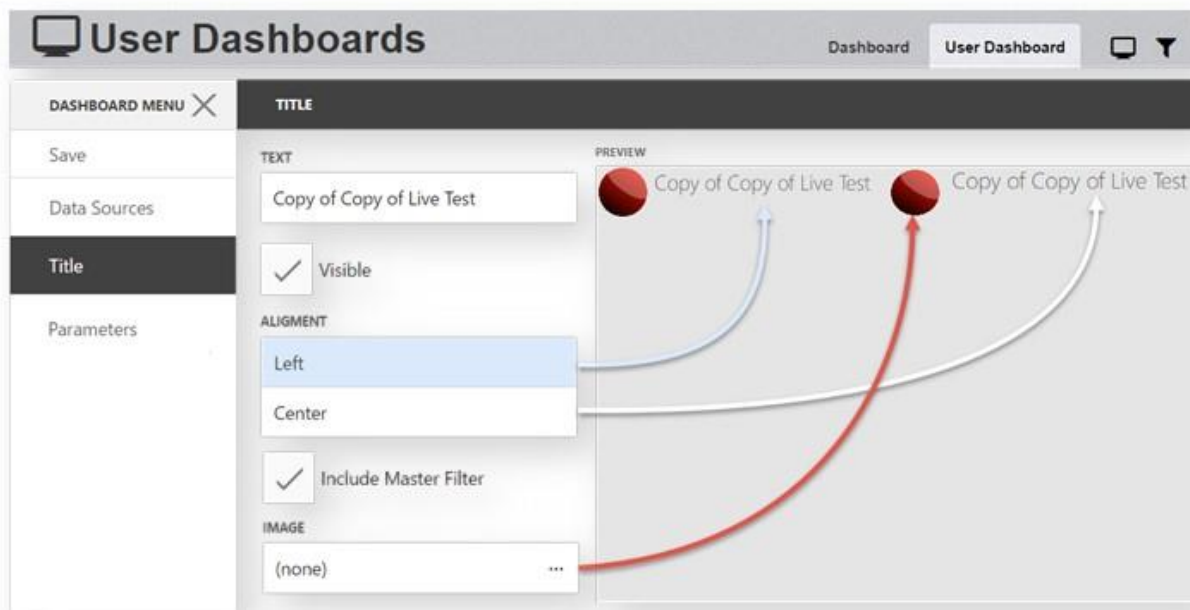
Clicking on the title tab will open the title window. From here, there are several edit boxes to configure the Title.

### TEXT

The first edit box is the TEXT. Enter the name of the template. There's a checkbox which allows you to make it visible or not.

### ALIGNMENT

Below the text portion is alignment. From there you select where do you want it left Justified or centered. Also, there is a check box labeled include Master Filter.



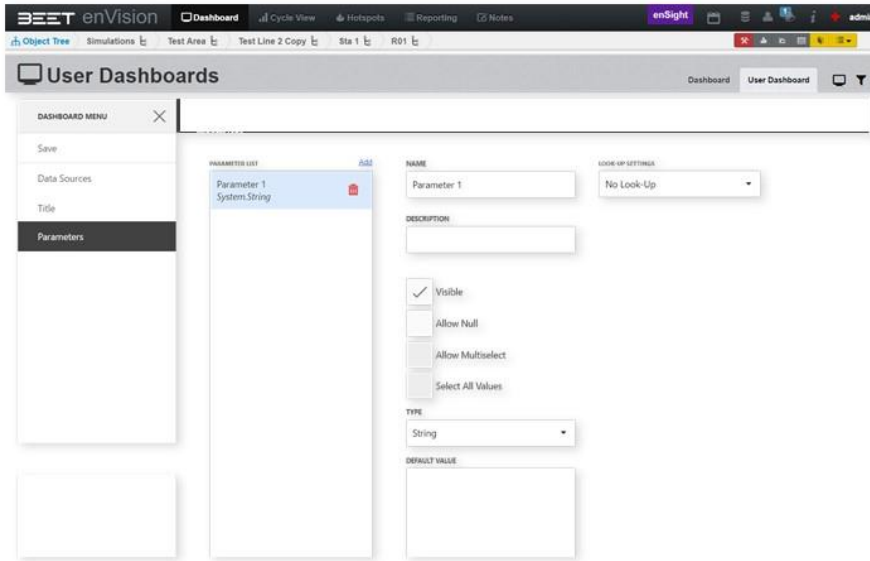
### IMAGE

Below the Alignment set, is the image box. Click on this and it will open a window which will allow you to select an image to display on your template next to the Title.

### PREVIEW

The Preview window will display what the Dashboard Title will appear.

## Parameters (UDM)



The Parameter tab displays the parameters used in the dashboard. It will allow you to Add, Remove, or Edit the parameters of the current dashboard.

Click on the Add Parameter link, and a Parameters window will open.

This window contains a Parameter List, which list all the current parameters and has an Add link to add additional parameters.

Selecting the parameter on the Parameter List and to the left of the list, is the Name edit box, Description, 4 check boxes (visible, Allow Null, Allow Multis, and Select All Values), Type, Default Value, and Look-Up String.

### Name

This Name box is used to name the parameter.

### Description

Use this edit box to describe the Parameter. Below the edit box are checkoff boxes to add to the Description. They are Visible, Allow Null, Allow Multis, and Select All Values.

### Type

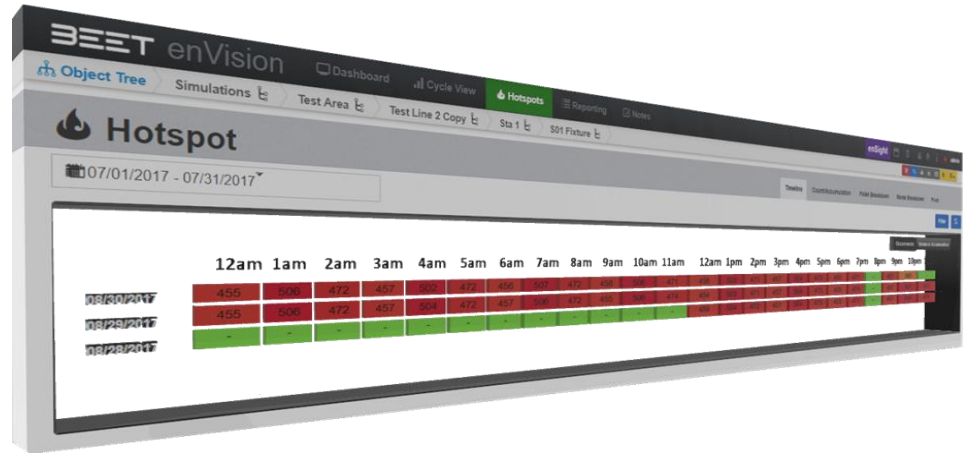
The Type category allows you to choose from several options. You can choose by String, Date, Number (16, 32, 64 bit integers, floating points double-precision floating -point, and decimal), Boolean, and Guid. Default Value Input a default value.

### Look-Up Strings

The lookup settings give you a choice of settings. No Look-Up, Static List, and Dynamic List.

# Hotspots 3.6

- [Navigating](#)
- [Hotspots Option](#)
- [Hotspot Views](#)
- [Timeline](#)
- [Count/Accumulation](#)
- [Model Breakdown](#)
- [Pallet Breakdown](#)
- [Pivot - Hotspots](#)



## Overview

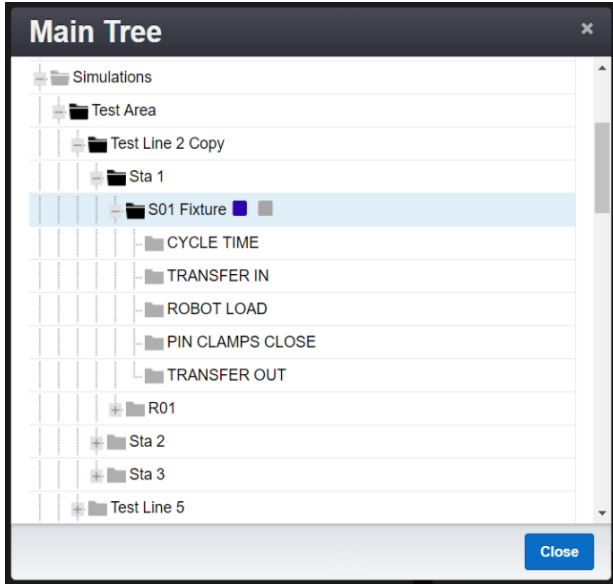


The Hotspot module displays the list of motions that accumulate the variances over a period. It also shows the number of occurrences each day that contributed to the accumulated variances. enVision only uses non-faulted cycles for the hotspots calculation. This module shows the accumulated effects of minor variances in certain motions that can cause significant production loss (leakage) over time. For example, for a 60 second cycle time machine, a one second delay in one motion will cause approximately one part per hour production leakage.

**Overcycle Occurrences by Hour**

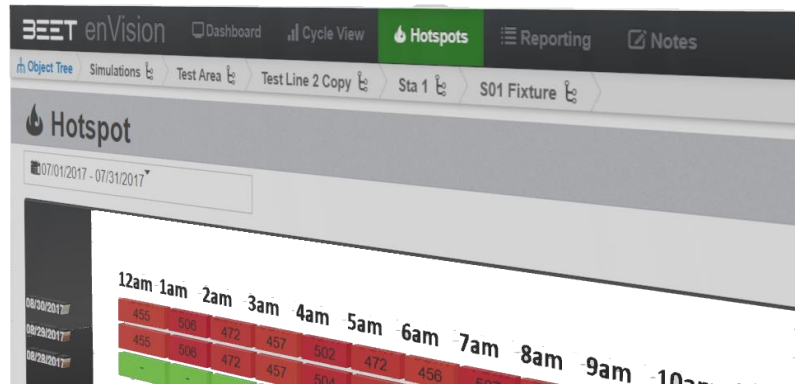
	12am	1am	2am	3am	4am	5am	6am	7am	8am	9am	10am	11am	12pm	1pm	2pm	3pm	4pm	5pm	6pm	7pm	8pm	9pm	10pm	11pm
09/28/2017	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09/27/2017	697	624	711	393	-	741	475	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09/26/2017	736	618	701	528	77	564	638	720	816	790	791	785	371	598	709	718	737	424	656	172	382	689	712	702
09/25/2017	696	334	-	-	26	724	751	754	664	680	683	657	301	738	803	759	743	542	601	745	157	797	732	713
09/24/2017	662	426	32	426	659	-	-	-	-	-	-	-	42	742	731	813	517	738	772	383	820	597	679	600
09/23/2017	-	-	-	18	36	566	632	786	667	644	710	544	482	700	711	543	755	650	765	752	497	590	802	761
09/22/2017	455	123	537	652	519	721	750	647	762	748	662	741	373	273	243	85	-	-	-	-	-	-	-	-
09/21/2017	525	290	543	605	456	668	737	583	338	-	61	285	548	620	519	543	418	501	704	544	555	540	686	641

## Navigating 3.6

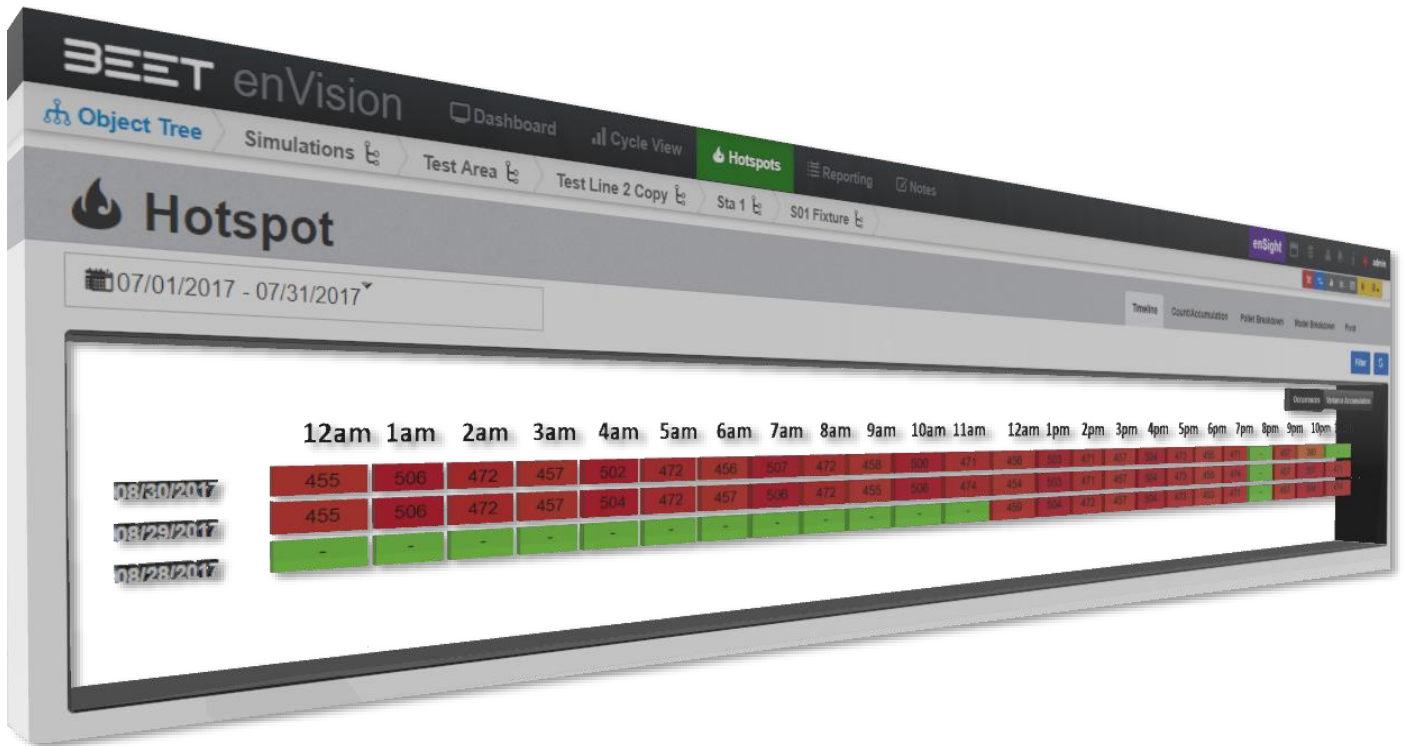


Use the Main Tree to navigate to the objects you want to view a hotspot report on.

Once you have chosen your object, **Click** on the **Hotspot** tab from the top menu.



The module will launch after selecting the **Hotspot** tab. Each colored box in the module represents the number of over cycle Occurrences that occurred for the object in a given hour on a given day (**Occurrences View** shown below). The number in each cell represents the number of occurrences in that hour span.



## Hotspots Option 3.6

### Set Date Range

You can select the date range you would like for the Hotspot module using the drop-down calendar located in the upper left corner.

The screenshot shows the BEET enVision Hotspot module interface. On the left, there is a sidebar with navigation options: Today, Yesterday, Last 7 Days, Last 30 Days, This Month, Last Month, and Custom Range. Below these is a 'FROM TO' date range selector with 'Submit' and 'Cancel' buttons. The main area displays a calendar for August 2017. A callout box on the right side of the image contains the text: "You can select the date range you would like for the hotspot module using the dropdown calendar located in the upper left corner." The callout box also shows a zoomed-in view of the calendar grid with a hand cursor pointing to the date '8'.

### Variance

Use the **Variance Accumulation** tab located in the right corner of the module for the variance view. In the Variance view, the module lets you see the amount of over cycle variance for each hour (in Minutes) of your object cycle.

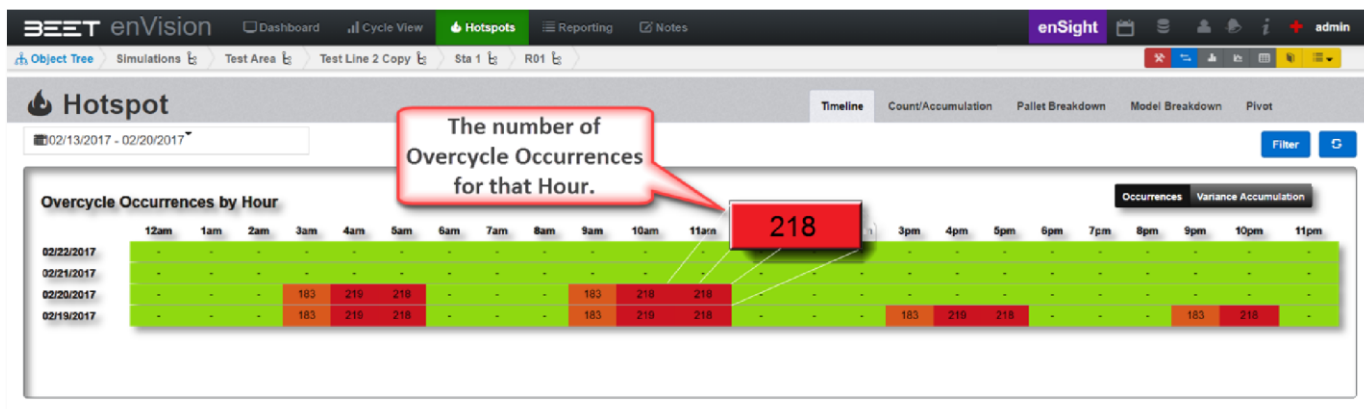
The screenshot shows the BEET enVision Hotspot module interface with the 'Variance Accumulation' tab selected. A callout box with a yellow border contains the text: "Variance view, the module lets you see the amount of over cycle variance for each hour (in Minutes) of your object cycle." Below the callout is a table titled "Overcycle Variance Accumulation by Hour (Minutes)". The table has columns for hours from 12am to 11pm and rows for dates from 02/22/2017 to 02/19/2017. A hand cursor points to the value '22.99' in the 8am column for the date 02/26/2017. The table also has tabs for 'Occurrences' and 'Variance Accumulation' at the top right.

	12am	1am	2am	3am	4am	5am	6am	7am	8am	9am	10am	11am	12pm	1pm	2pm	3pm	4pm	5pm	6pm	7pm	8pm	9pm	10pm	11pm
02/22/2017	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02/21/2017	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02/20/2017	-	-	-	-	-	-	-	-	22.99	30.55	30.54	-	-	-	-	-	-	-	-	-	-	-	-	
02/19/2017	-	-	-	-	-	-	-	-	25.58	30.71	30.51	-	-	-	25.57	30.52	-	-	-	-	25.59	30.50	-	



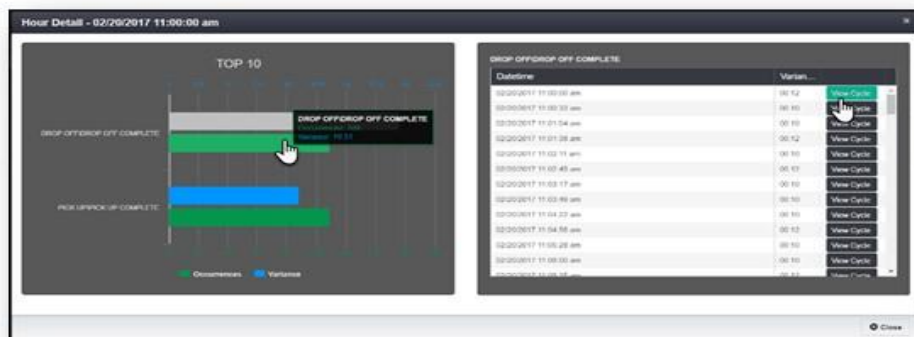
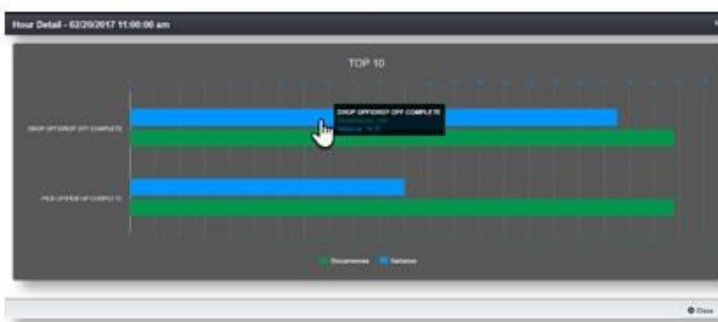
## Hour Detail

By **Clicking** on any of the individual cells in the hotspot module, you can access a more detailed breakdown of over cycle processes in that hour. The number represents the Over cycle occurrences for that hour.

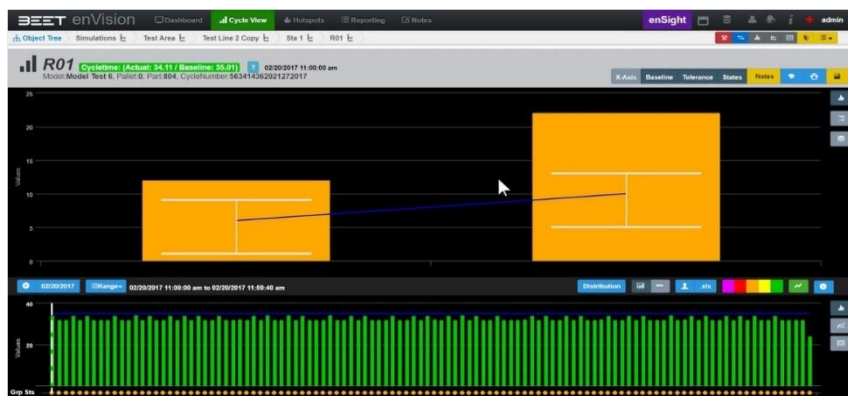


By selecting the Hour **218** on the figure above, this will display a detailed table revealing a comprehensive breakdown of processes that contributed to the accumulated over cycle time for that hour selected. Hovering over the bar will display the data for your selection.

**Clicking** on the object bar will display a table of object data that may be sorted by clicking a column header to the top line.

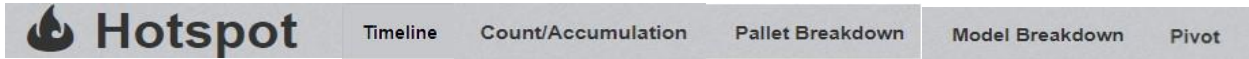


The **View Cycle** button will open a new browser window with the object data for that selected cycle object.



## Hotspot Views 3.6

In the top right corner of the Hotspot module are options for the other table views you can access.



- [Timeline](#)
- [Count/Accumulation](#)
- [Skid \(Pallet\) Breakdown](#)
- [Model Breakdown](#)
- [Pivot](#)

## Filter



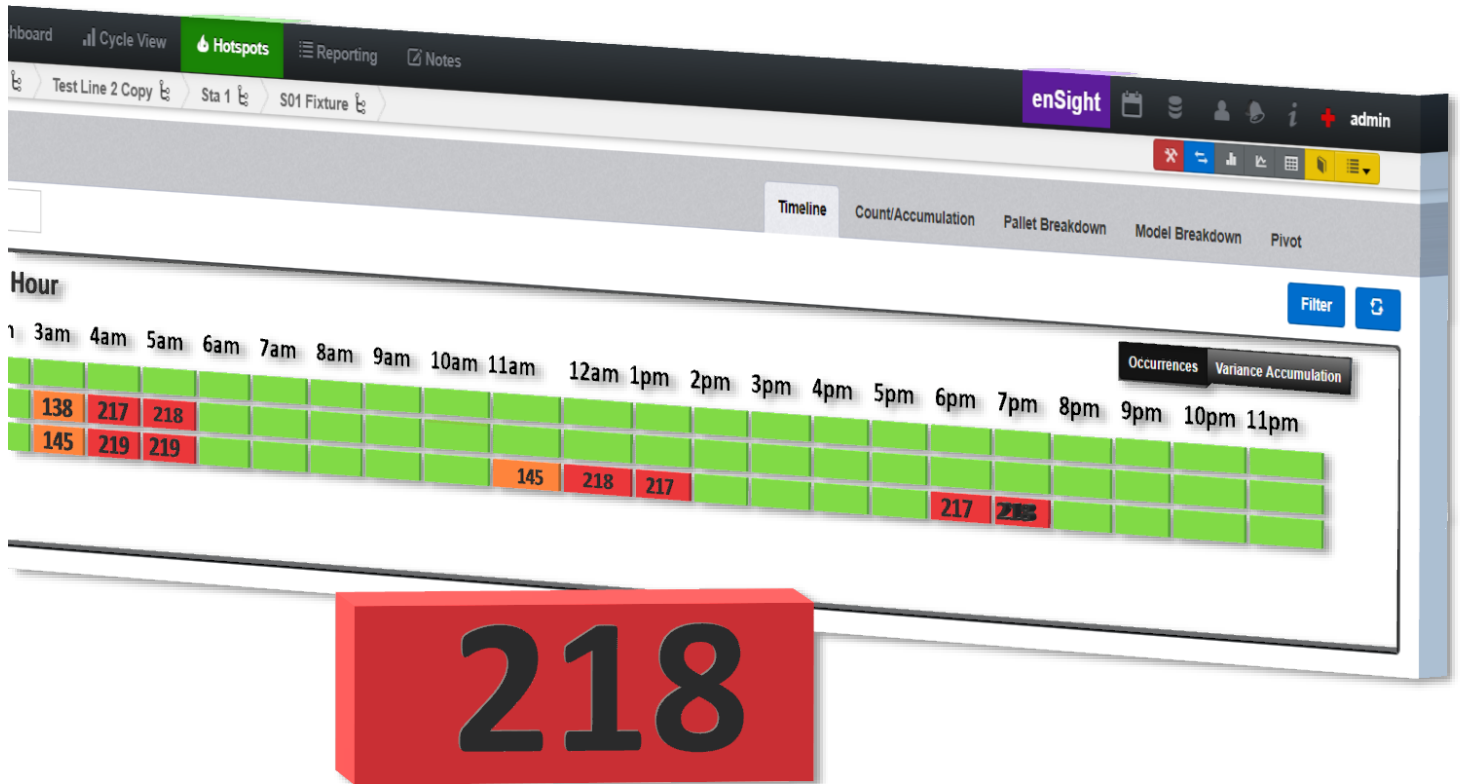
Use the Filter button to filter by Shift, Shift Label, Classification, Bottleneck, and CycleTime Overcycle.



Use the Export to Excel button to download a copy to your download folder.

### Timeline 3.6

The default view in the Hotspot module. A graph showing the total over cycle accumulation for each object.



## Count/Accumulation 3.6

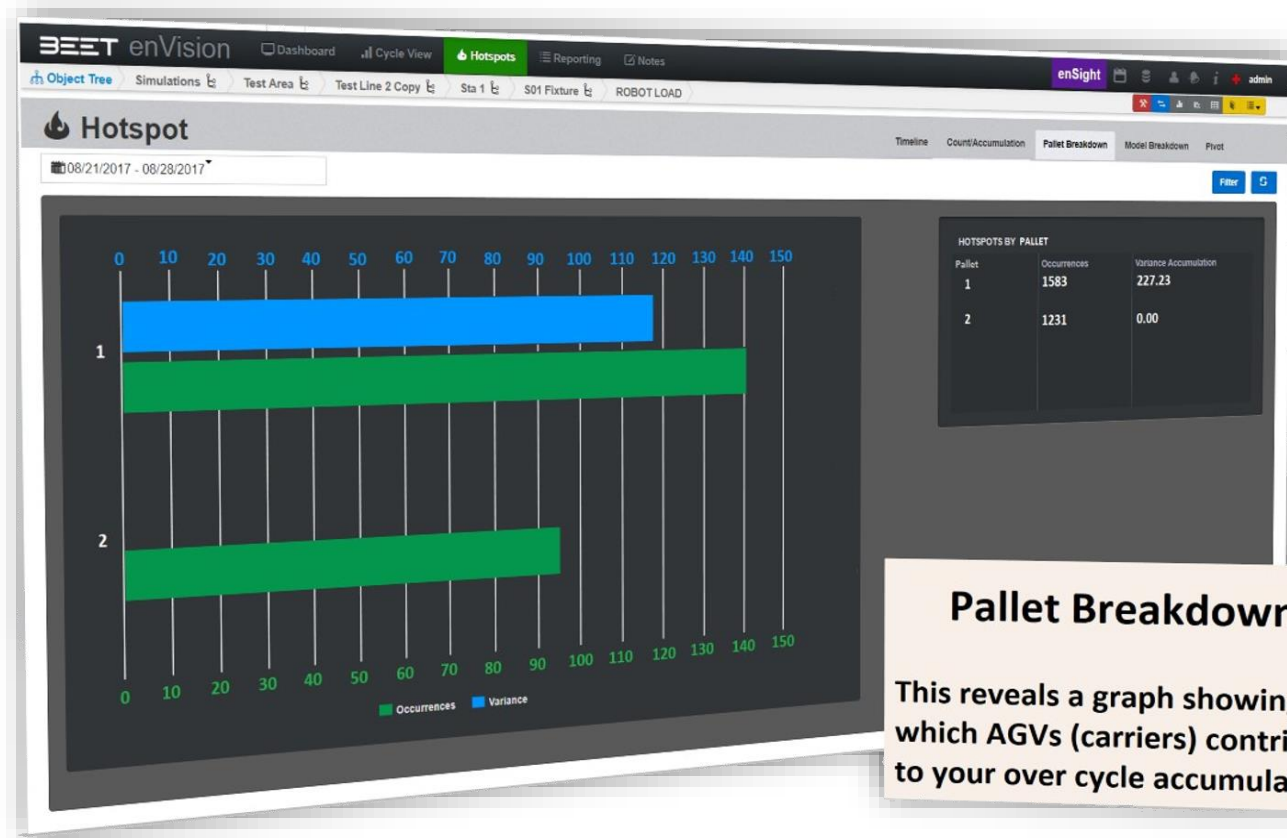
This tab shows the Variance Accumulation (in minutes) as well as the Overcycle Occurrences from a specific dates selected to view. This data can be exported to excel. **Click** the yellow button to and it will start a download to an excel file. A tab will open on the bottom left side of the browser. Open to view, plot, and send the excel data.

The screenshot shows the BEET enVision software interface. The top navigation bar includes 'enSight' and 'admin'. The breadcrumb trail is: Object Tree > Simulations > Test Area > Test Line 2 Copy > Sta 1 > S01 Fixture. The 'Hotspot' section is active, with a date range of 08/01/2018 - 08/31/2018. A yellow 'Export to Excel' button is visible. Below the header, a table displays the following data:

Variance Accumulation in minutes / Overcycle Occurrences 08/01/2018 to 08/31/2018		
Tag	Variance	Occurrences
TRANSFER OUT/PALLET CLEAR OF DECEL	09:10	21244
TRANSFER OUT	00:00	1
TRANSFER OUT/PALLET EXITING	-68:39	2653
TRANSFER OUT/NO PALLET PRESENT	-113:18	2653

### Pallet Breakdown 3.6

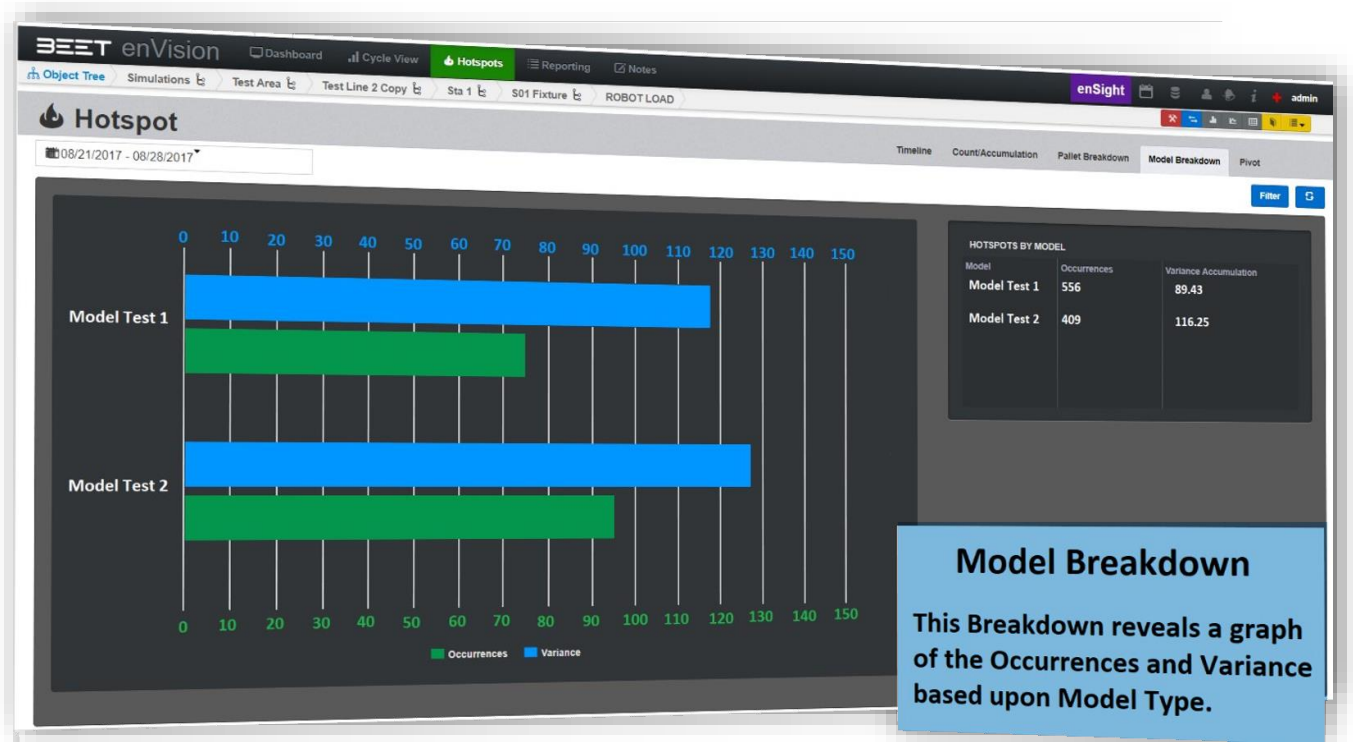
This reveals a graph showing which AGVs (carriers) contributed to your over cycle accumulation.



**Pallet Breakdown**  
 This reveals a graph showing which AGVs (carriers) contributed to your over cycle accumulation.

## Model Breakdown 3.6

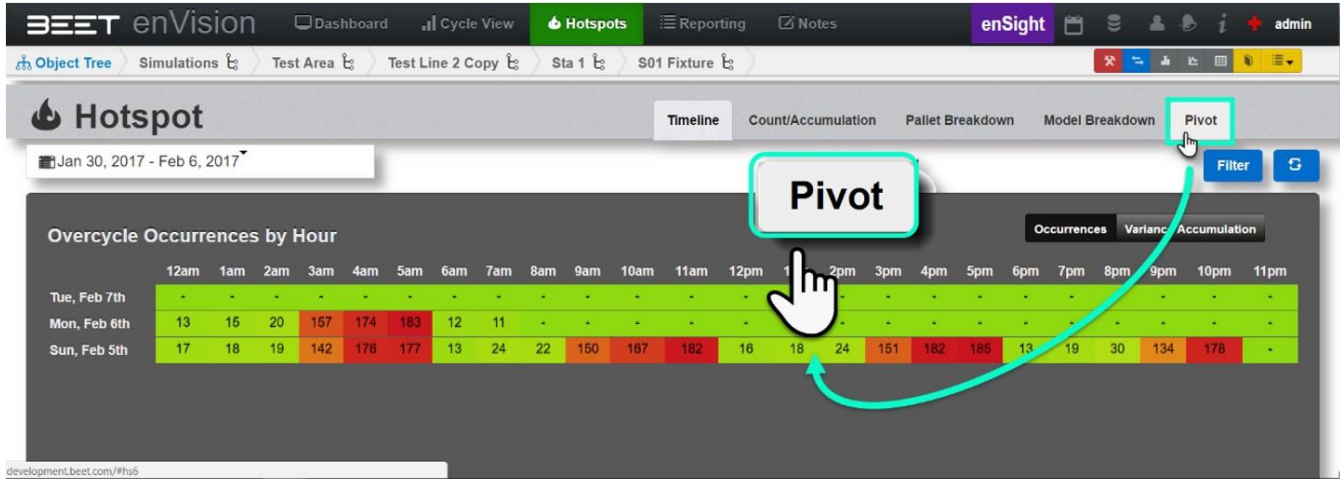
This Model Breakdown reveals a graph of Occurrences and Variance based upon Model Type. Hovering over the bar will reveal the details of the bar.



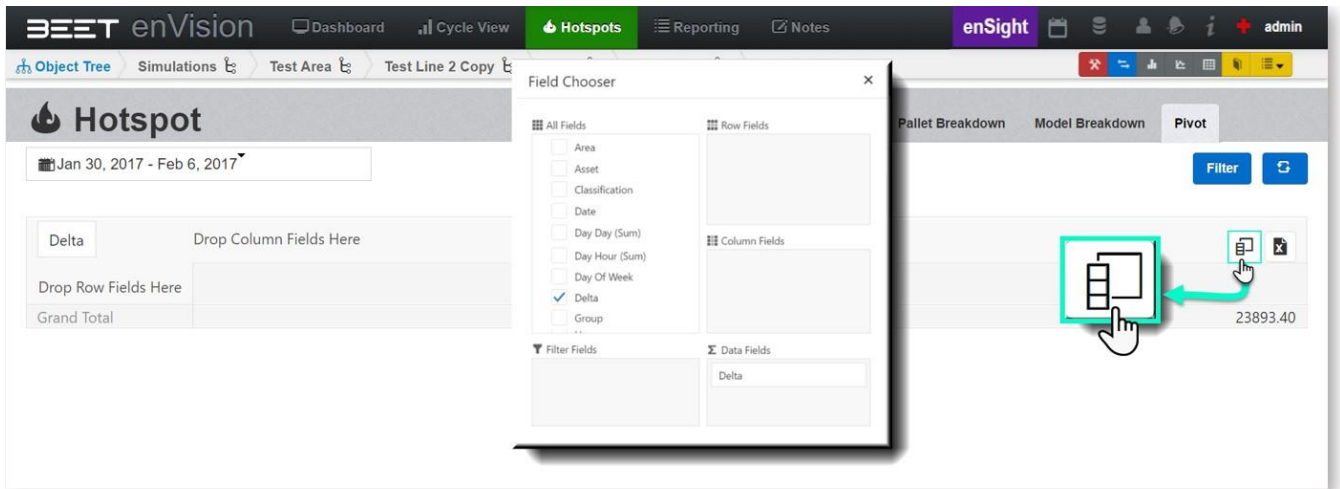
# Pivot - Hotspots

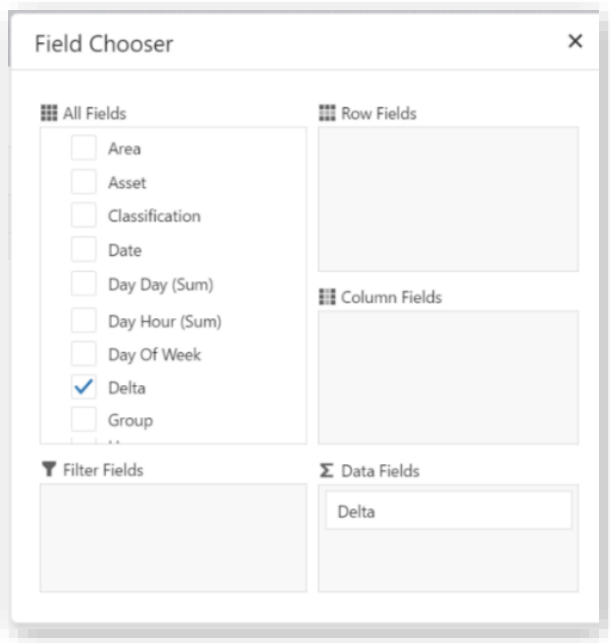
## Pivot

Hotspots now has a new feature that will allow you to plot data on a Pivot Table. While in Hotspots, click on the Pivot tab to the right of the Model Breakdown Tab. **Clicking** on this will reopen the Hotspots window to a Pivot style table.

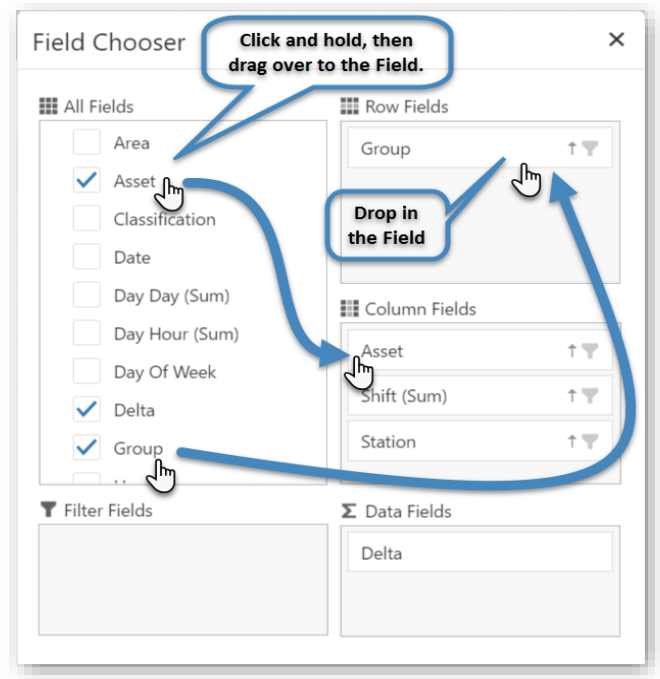


From here, you can click on the "Show Field Chooser" Icon on the upper right-hand side of the pivot table. This will open the Field Chooser setup window.

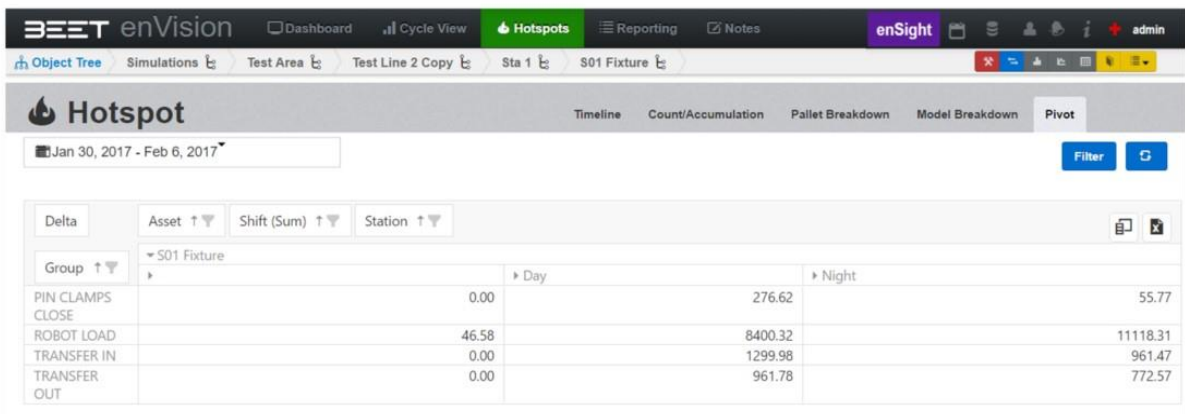
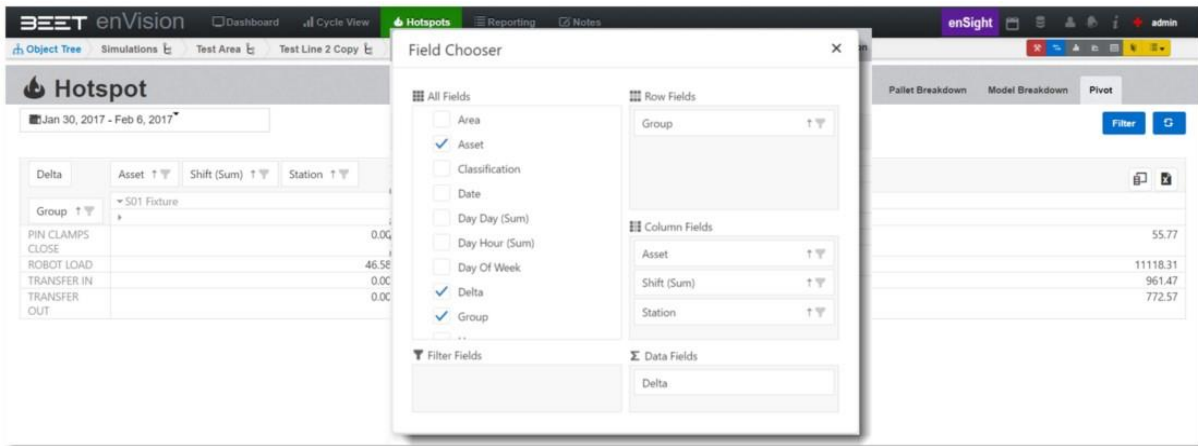




Choose from the All Fields area by checking the box, then dragging it over to the Row, Column, Filter, and Data fields. When this action is commencing, the Pivot table will populate and display your choices.



After your fields are set, you can click the x (close window) at the upper right-hand corner of the Field Chooser window.



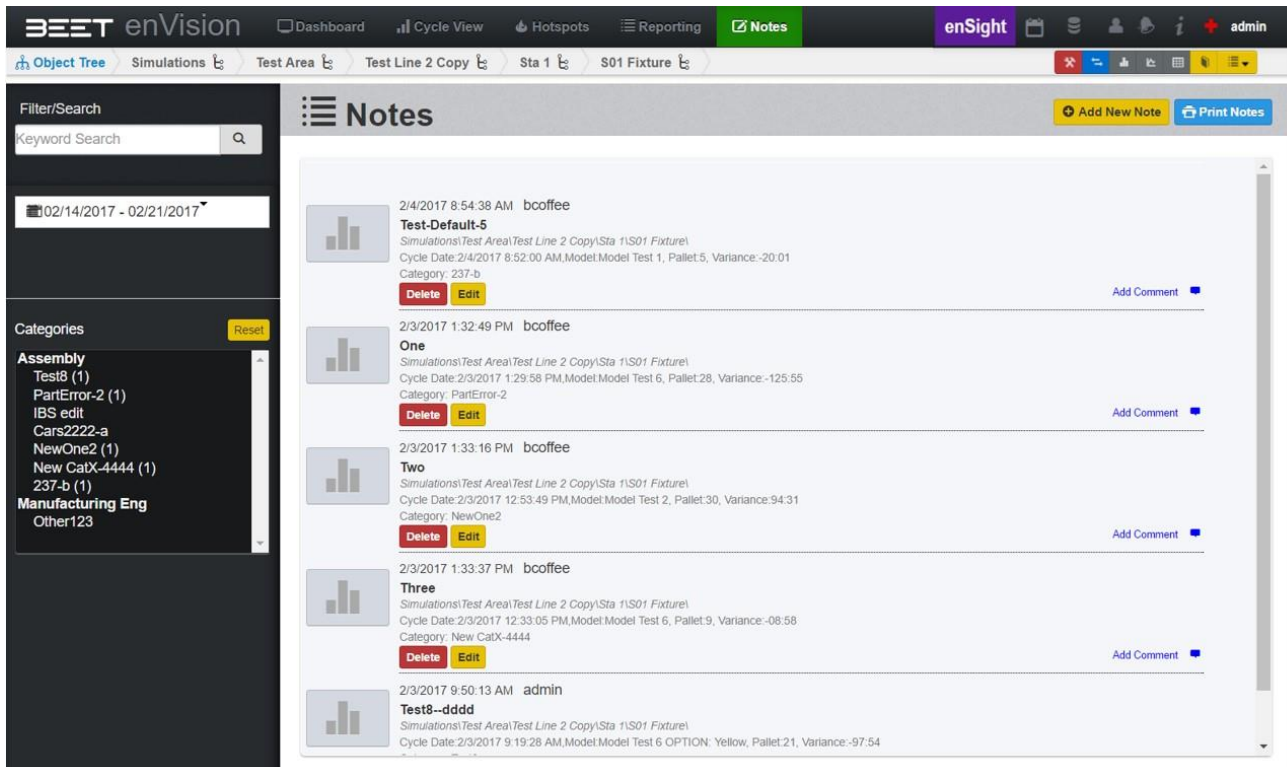


# enVision Notes 3.6



## Overview

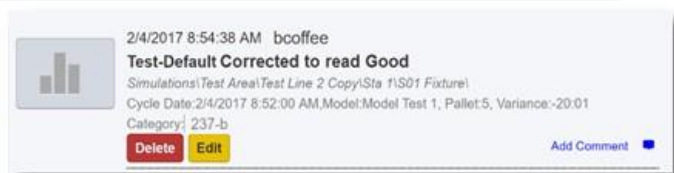
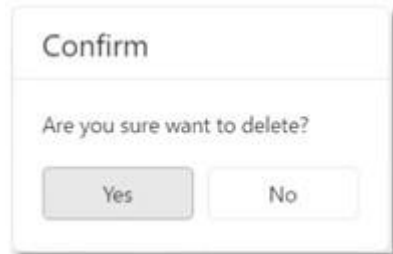
The enVision notes panel allows users to input descriptions about any given cycle they wish. This is a practical and convenient method of communicating issues as they happen across an assembly plant. Notes that have inputted at any time are persistently available to be viewed by authorized users.



In the Notes section of enVision, the user will now have the option to **Delete** or **Edit** their notes if they are an Admin or

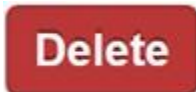


box and give you a choice to Confirm to remove or not



the author of the note.

Select the Edit button to re-open the Update Note window. From here, make any correction in Category and in the Note section. When the Note is finished, click the Save button to complete the editing.



Selecting the Delete button will open a warning remove the Note permanently.

**BEET enVision** | Dashboard | Cycle View | Hotspots | Reporting | **Notes** | enSight | admin

Object Tree | Simulations | Test Area | Test Line 2 Copy | Sta 1 | S01 Fixture

Filter/Search  
Keyword Search  
02/14/2017 - 02/21/2017  
Categories: Assembly (TestB (1), PartError-2 (1), IBS edit, Cars2222-a, NewOne2 (1), New CatX-4444 (1), 237-b (1), Manufacturing Eng, Other123)

### Notes

**2/4/2017 8:54:38 AM**  
**Test-Default**  
Simulations\Test Area\Test Line 2 Copy\S01 Fixture\  
Cycle Date:2/4/2017 8:52:00 AM,Model:Model Test 1, Pallet:5, Variance:-20:01  
Category: 237-b  
[Delete](#) [Edit](#) [Add Comment](#)

**2/3/2017 1:32:40 PM admin**  
**One**  
Simulations\Test Area\Test Line 2 Copy\S01 Fixture\  
Cycle Date:2/3/2017 1:29:58 PM,Model:Model Test 1, Pallet:28, Variance:-125:30  
Category: PartError-2  
[Delete](#) [Edit](#) [Add Comment](#)

**2/3/2017 1:33:16 PM admin**  
**Two**  
Simulations\Test Area\Test Line 2 Copy\S01 Fixture\  
Cycle Date:2/3/2017 12:50:49 PM,Model:Model Test 2, Pallet:20, Variance:94:31  
Category: NewOne2  
[Delete](#) [Edit](#) [Add Comment](#)

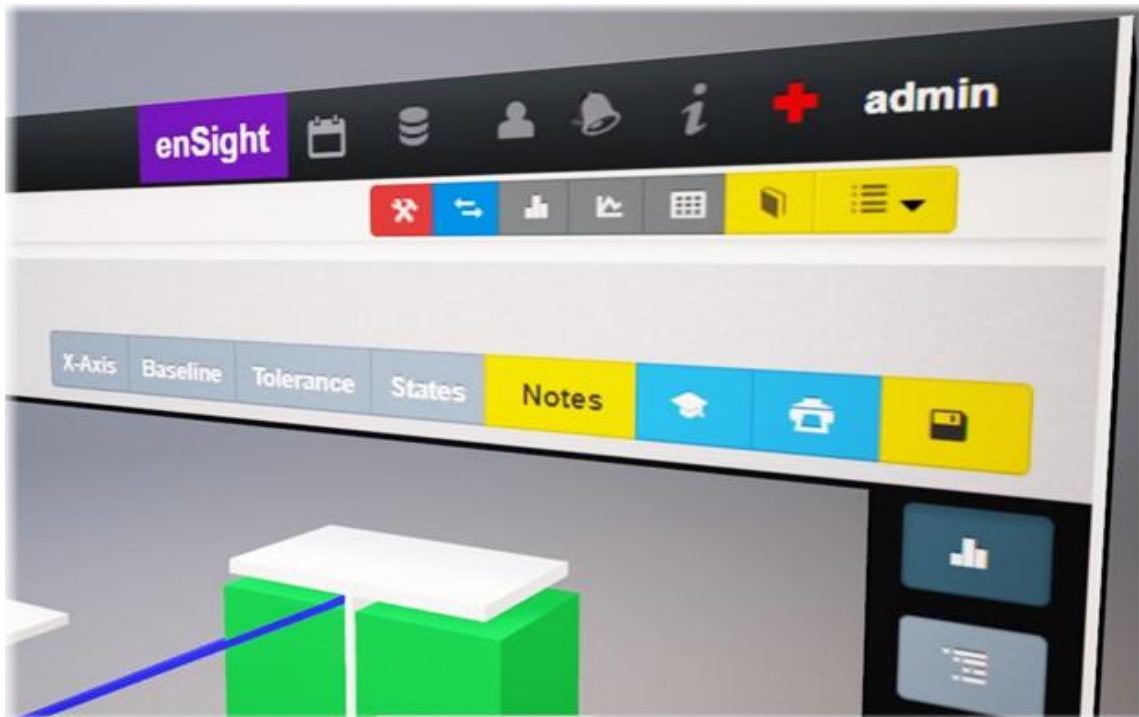
**2/4/2017 8:54:38 AM**  
**Test-Default**  
*Simulations\Test Area\Test Line 2 Copy\Sta 1\S01 Fixture\*  
Cycle Date:2/4/2017 8:52:00 AM,Model:Model Test 1, Pallet:5, Variance:-20:01  
Category: 237-b  
[Delete](#) [Edit](#)

## Notes in Cycle View 3.6



Within Cycle View browser, there is a button you can use to make notes about the object. The Notes button is located in the upper right-hand corner of the enVision browser.

- [Enter Custom Note](#)
- [Opening Note](#)
- [Select Common Notes](#)
- [View Notes](#)



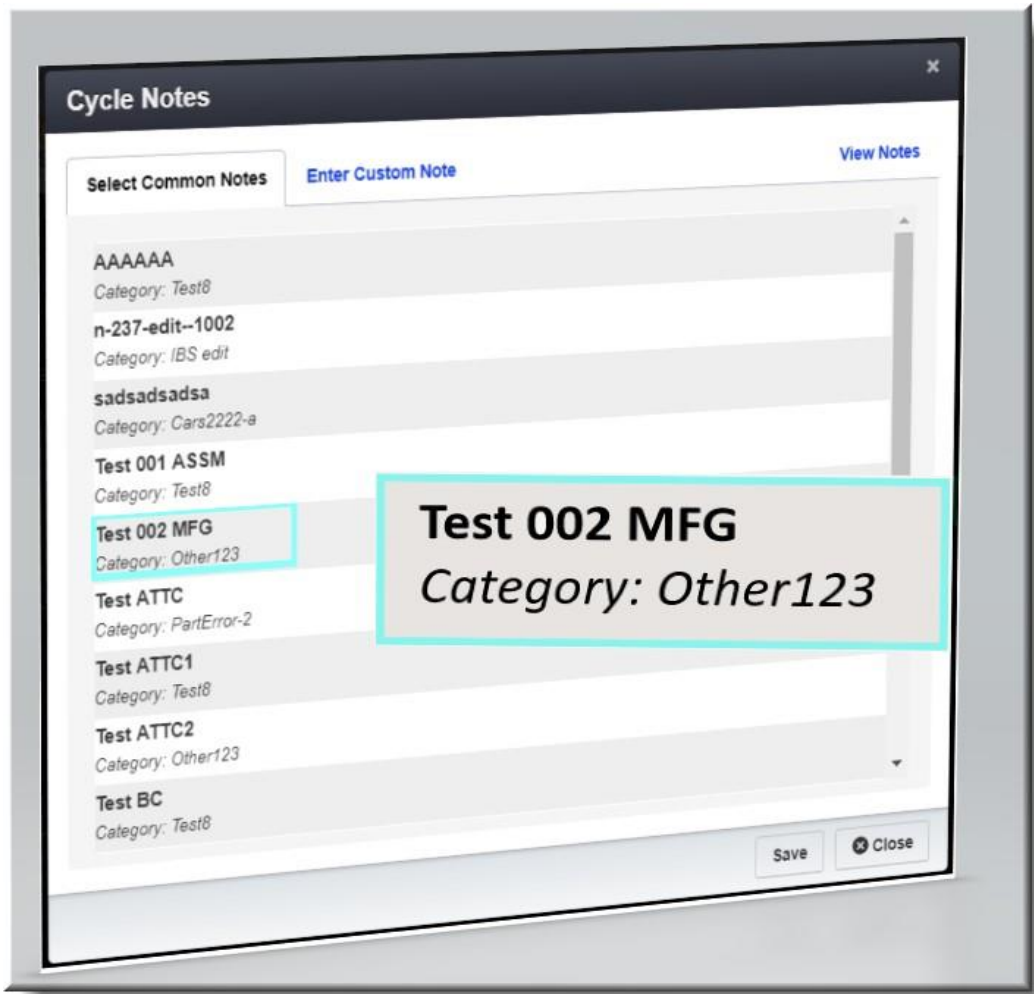
## Opening Note 3.6

### Select Common Notes

Simply **Click** on the Notes button and a window will open labeled Cycle Notes. It will open to the Select Common Notes tab.

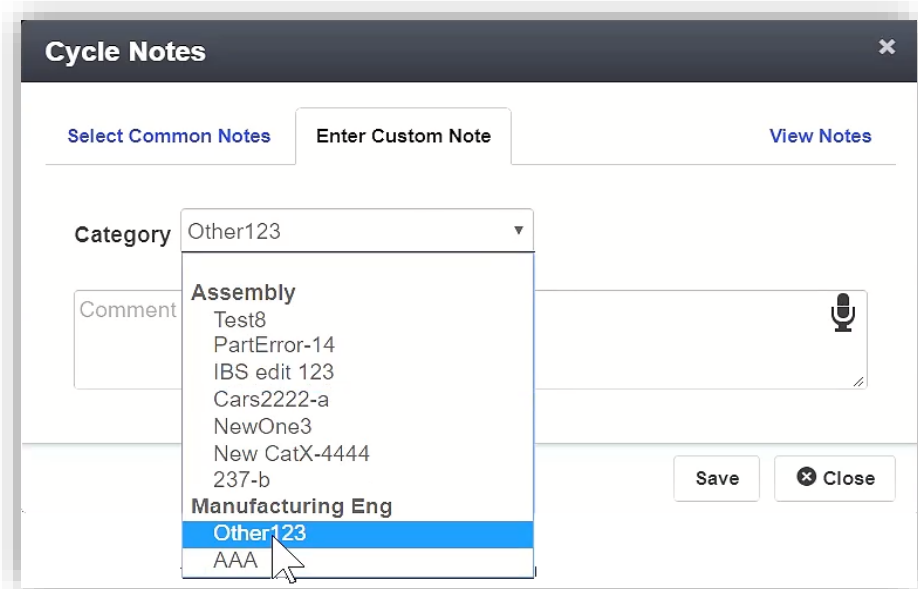
It will offer you a few options to choose from including Select Common Notes, Enter Custom Note, and View Notes.

The Select Common Notes, displays a list of the Notes in the current selection or where you are in the cycle view browser.



### Enter Custom Note 3.6

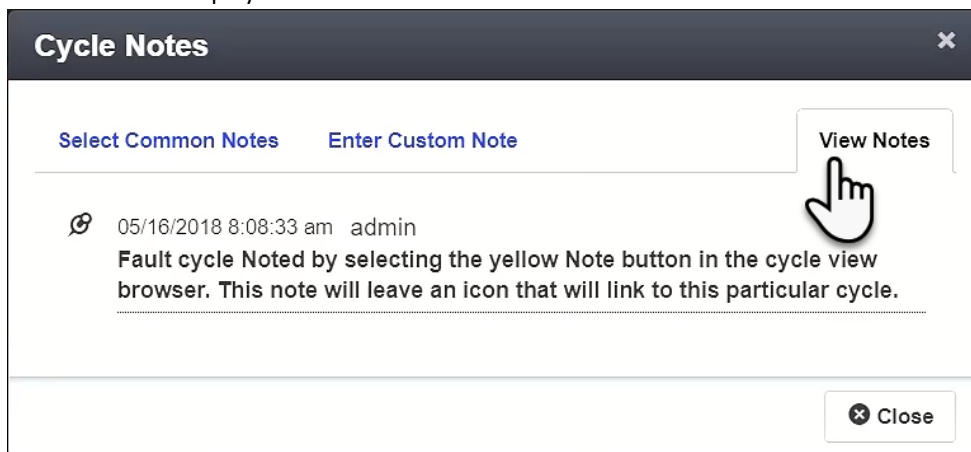
The **Enter Custom Note** tab, will allow you to input a note into the Notes database. Simply, **Click** on the Category space to reveal a drop down menu with choices. Select the proper Sub Category (Other in this example), then fill in your comments in the Comments section provided. When you are finished, **Click Save** to hold the position, or **xClose** .



### View Notes 3.6



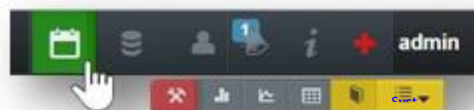
The **View Notes** tab will let you view the active notes at the object that you are viewing. The Note button will have a red circle with a number in it (number of active Notes). When you click on the Notes button, click the View Notes to display the active notes.



## Scheduling 3.6



The scheduling menu allows you to setup and configure a schedule for multiple shifts. It also will allow you to schedule Non-Production Events, such as Preventative Maintenance, Breaks, and other reasons for a scheduled shutdown.



## Navigating

On the opening screen, select the calendar icon in the upper left corner of the enVision browser.

- [Navigating](#)
- [Scheduling Configuration](#)
- [Non-Production Event](#)
- [Extend Shifts](#)
- [Deleting Shifts](#)



## Scheduling Configuration

Start by selecting a day on the calendar.

By selecting a date on the calendar, the area to the right of the calendar will now reveal the Create Shift Menu. From here you can enter the name of the shift, which shift (if multiple shifts are present), Start time, and End time.

BEET enVision Dashboard Cycle View Hotspots Reporting Notes enSight admin

Object Tree Simulations Test Area Test Line 2 Copy Sta 1 S01 Fixture

AREA Forward  
BEET Training Area

**Scheduling** BEET Training Area MTD Targets

February 2017 today

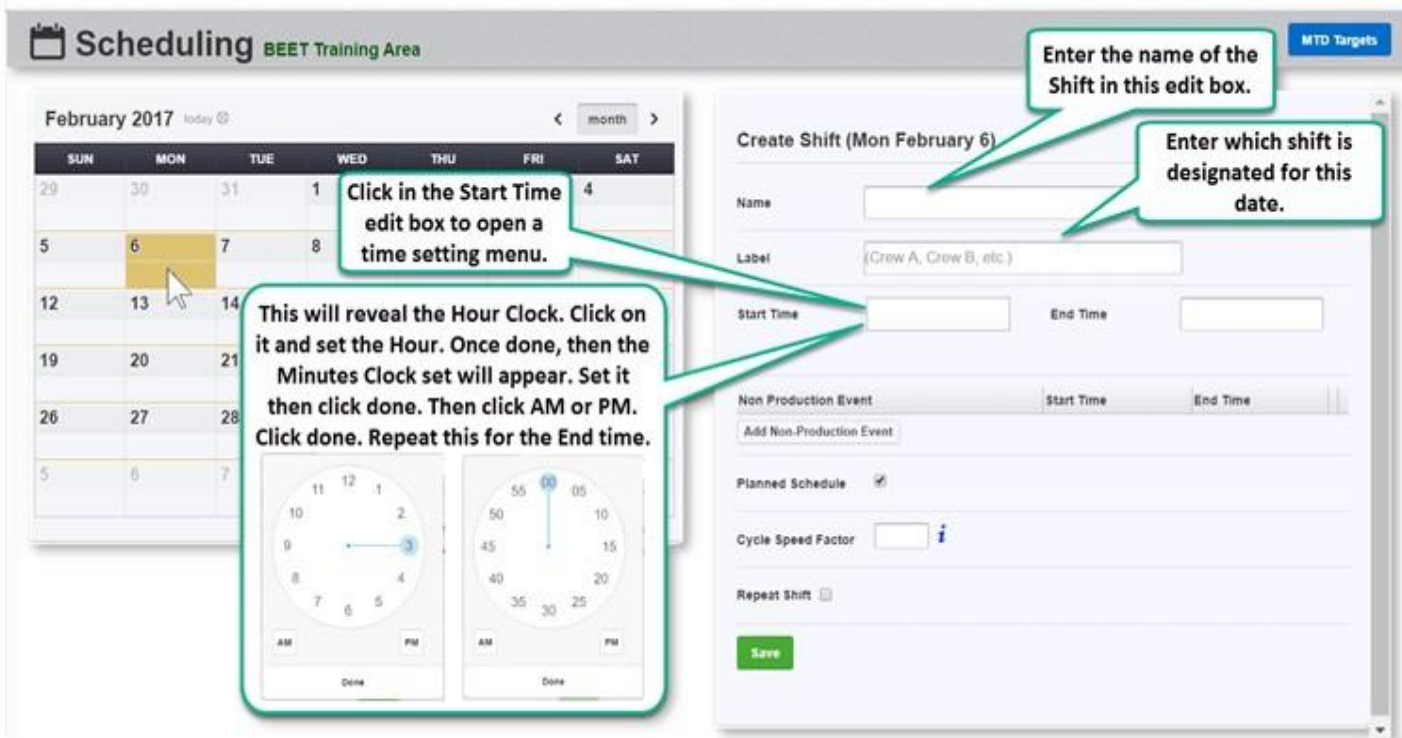
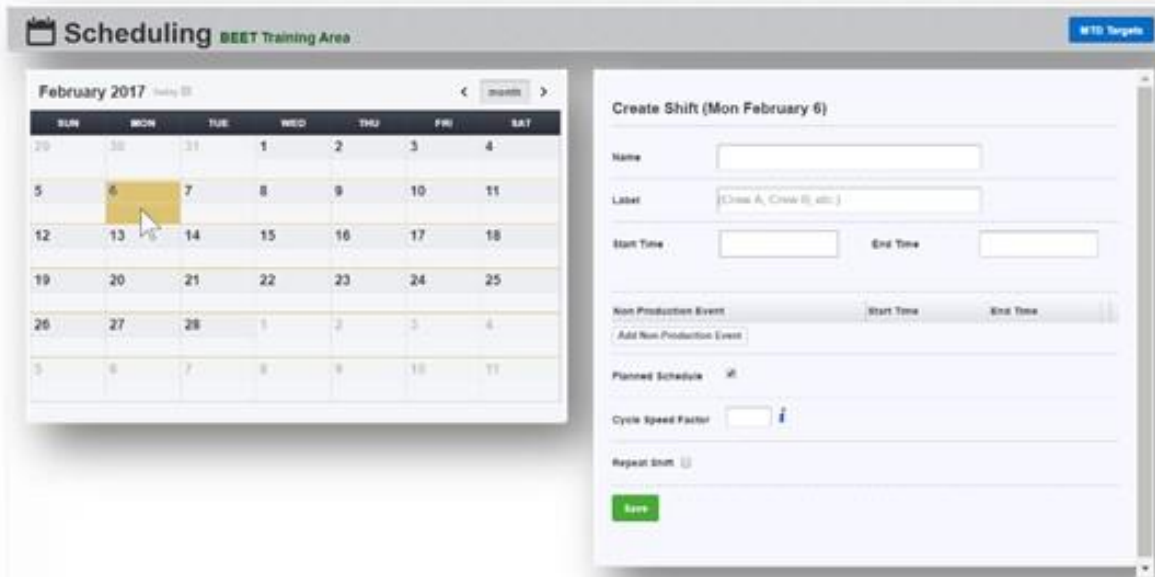
SUN	MON	TUE	WED	THU	FRI	SAT
29	30	31	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	1	2	3	4
5	6	7	8	9	10	11

Click Here!

Start by selecting a date on the calendar. Once selected, the area to the right of the calendar will reveal a Scheduling Configuration Table.



Enter the name of the Shift (**Red**). 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 the Hour, then **Click** on the minutes. Select A.M. or P.M., then **Click Save** when you are done.



We have selected a Start time of 3:00 P.M. and an End time of 11:00 P.M.

The Start time now reads 3:00 P.M.

Click in the End Time edit box to open the Time Menu, and perform the same procedure to set the End Time.

Start Time: 3:00 P.M. End Time: 11:00 P.M.

### 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.

Enter an event in the Non-Production Event Box. This is used for a scheduled Downtime (aka Lunch, Shift change, or PM). Click on a Start Time and use the Time Clock Menu to set the Start and End Time. The total time will show next to it. To remove the Event, click the Delete button.

Start Time: 03:00 PM End Time: 12:00 AM  
Shift Length: 9 hours & 0 minutes

Non Production Event	Start Time	End Time	
Shift Change	12:00	12:30	30 min

Add Non-Production Event

Planned Schedule

Cycle Speed Factor: 0.1

Repeat Shift

Check off the Planned Schedule button

Select the Repeat Shift Checkbox to open a weekday selection menu.

Set the Cycle Speed Factor.

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 at intended. If not, you can simply select the delete button or make a correction to either. Select the Planned Schedule to make this repeat for all the shift's select. Set the Cycle Speed Factor if isn't already set to specification. Now select the Repeat Shift checkbox if you would like to add duplicate shifts throughout the week.





After checking the Repeat shift box, a Repeat Until edit box and a weekday selection menu will appear. Use the Calendar to select the date that you to repeat the weekly schedule. This will repeat until the date you select. Now select the days that you would like to repeat on the Weekday Selection menu.

Check over the information you have inputted in this configuration menu. If everything is correct, select **Save** to continue.

**1. Check this box to open the Weekday Selection Menu.**

**2. Select the days you would like to repeat on the Schedule. This will repeat until the date is reached in the Repeat until Edit box.**

**3. Use the Calendar menu to enter an End date here. This will allow the schedule to repeat the days selected until it reaches the date selected.**

**Repeat Shift**  **Repeat until:** 02/11/2016

Mon Tue **Wed** **Thur** Fri Sat Sun

**Save**

Check over the information you inputted and click Save when finished.



The page will update and look similar to this. The calendar will show the shifts, and the area next to the calendar will now have an Edit Red shift window. Also, at the bottom, you now have an option to Extend to future shifts.

**Scheduling** BEET Training Area MTD Targets

February 2017 < month >

SUN	MON	TUE	WED	THU	FRI	SAT
29	30	31	1	2	3	4
5	6 Red	7 Red	8 Red	9 Red	10	11
12	13 Red	14 Red	15 Red	16 Red	17	18
19	20	21	22	23	24	25
26	27	28	1	2	3	4
5	6	7	8	9	10	11

**Edit Red shift (Mon February 6)**

Delete Shift Delete All Shifts (Future)

Name:

Label:

Start Time:  End Time:

Shift Length: 0 hours & 0 minutes

Non Production Event:  Start Time:  End Time:

Add Non-Production Event:

Planned Schedule:

Cycle Speed Factor:  i

Repeat Shift:

Save

### Extend Shifts

After selecting **Save**, more options will reveal. The **Apply to Future shift's** check box will appear. Check off the **Extend** button to open an **Ext end until:** edit box. Input the data you would like to extend the shifts until. Select the days, then **Click Save**.

February 2017 < month >

SUN	MON	TUE	WED	THU	FRI	SAT
29	30	31	1	2	3	4
5	6 Red	7 Red	8 Red	9 Red	10	11
12	13 Red	14 Red	15 Red	16 Red	17	18
19	20 Red	21 Red	22 Red	23	24	25
26	27	28	1	2	3	4
5	6	7	8	9	10	11

**Edit Red shift (Tue February 6)**

Delete Shift Delete All Shifts (Future)

Name:

Label:

Start Time:  End Time:

Shift Length: 0 hours & 0 minutes

Non Production Event:  Start Time:  End Time:

Add Non-Production Event:

Planned Schedule:

Cycle Speed Factor:  i

Apply to future shifts:

Shift Extends to 2/12/2016 Extend

Save

**Apply to future shifts**

Shift Extends to 2/17/2016 Extend

Extend until:

Mon Tue Wed Thur Fri Sat Sun

Save

**February 2016**

Su	Mo	Tu	We	Th	Fr	Sa
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				

The calendar now shows the extended shifts after you click **Save**.

After selecting **Save**, more options will reveal. **Apply to future shift's** check box will appear. Check off the **Extend** button to open an **Ext end until:** edit box. Input the data you would like to extend the shifts until. Select the days, then click **Save**.

This will appear under the **Extend** check box. Input the date and the days, then click **Save** to update the schedule.

## Deleting Shifts

The Scheduling module also allows you to **delete** a shift or **All (Future) shifts**. To Delete a shift, **Click** on the shift name on the calendar, then select **Delete Shift** . You can **Delete All Shifts (Future)** by **Clicking** on a shift on the calendar, then **Click** this button. All future shifts will be deleted.

**Scheduling** BEET Training Area MTD Targets

February 2017 today < month >

SUN	MON	TUE	WED	THU	FRI	SAT
29	30	31	1	2	3	4
5	6	7	8	9	10	11
	Red	Red	Red	Red		
12	13	14	15	16	17	18
	Red	Red	Red	Red		
19	20	21	22	23	24	25
	Red	Red	Red			
26	27	28	1	2	3	4
5	6	7	8	9	10	11

To Delete a shift, click on the shift name on the calendar, the select Delete Shift.

**Edit Red shift (Mon February 6)**

**Delete Shift** **Delete All Shifts (Future)**

Name: Red

Label: Crew A

Start Time: 02:55 PM End Time: 08:55 PM

Shift Length: 6 hours & 0 minutes

Non Production Event:  Add Non-Production Event

Planned Schedule:

Cycle Speed Factor: 0.2 i

Apply to future shifts:

You can Delete All Shifts (Future) by clicking on a shift on the calendar, then click this button. All future shifts will be deleted.

**Edit Red shift (Mon February 6)**

**Delete Shift** **Delete All Shifts (Future)**

Name: Red

Label: Crew A

Start Time: 02:55 PM End Time: 08:55 PM

Shift Length: 6 hours & 0 minutes

Non Production Event:  Add Non-Production Event

Planned Schedule:

Cycle Speed Factor: 0.2 i

Apply to future shifts:

You can Delete All Shifts (Future) by clicking on a shift on the calendar, then click this button. All future shifts will be deleted.

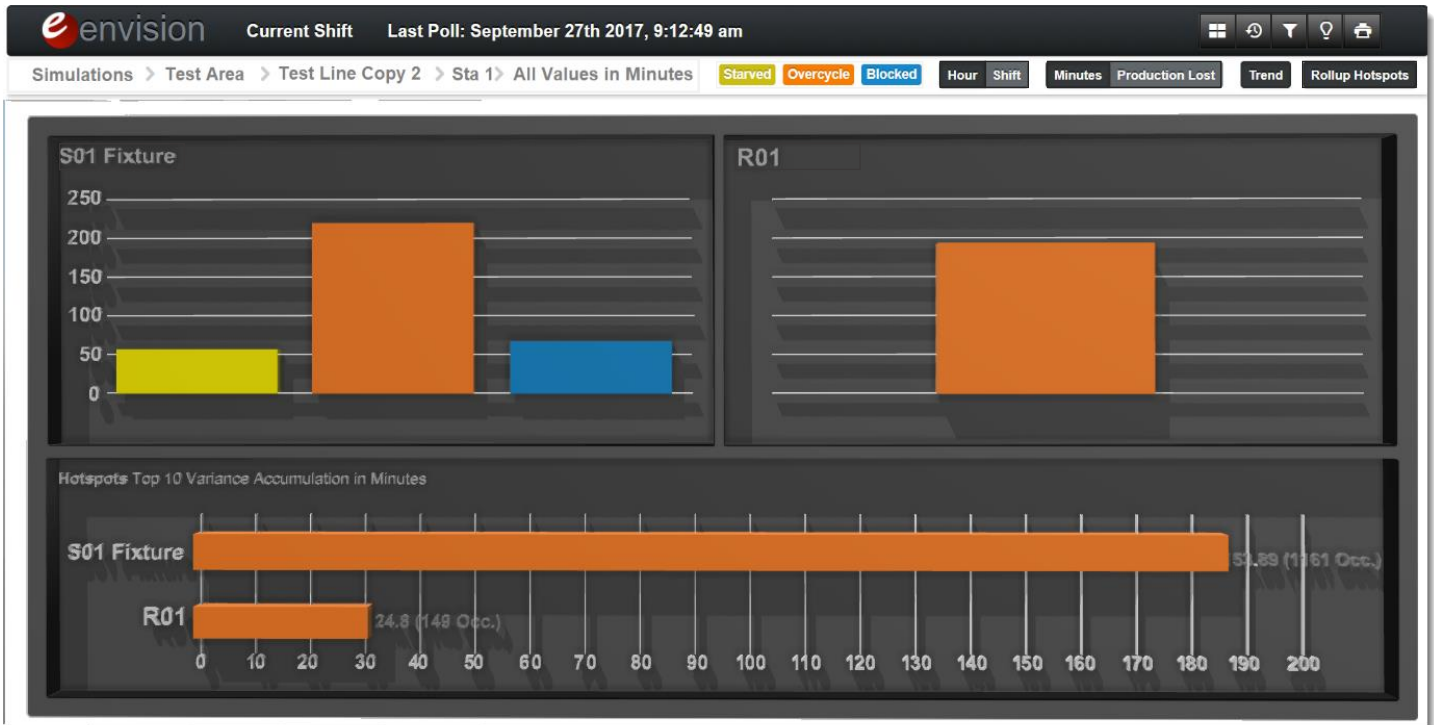
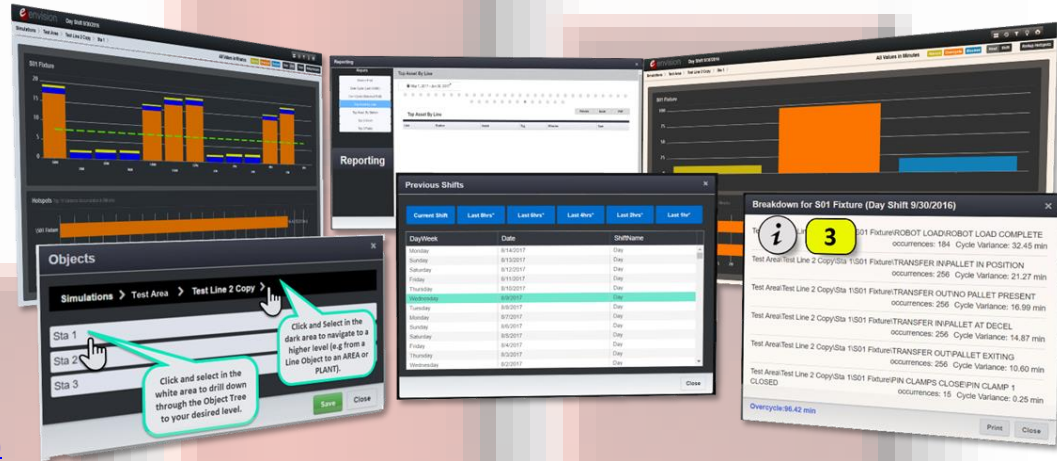
# Production Monitor 3.6

## Overview



The Production Monitor is a browser that can provide a quick live report on plant productions. The Production Monitor can display data for the entire plant, including overcycle time in accumulated events, production data for each zone hour by hour or by a selected shift.

- [Location](#)
- [Select Historical Shift](#)
- [Change Object](#)
- [Alternate Navigational options](#)
- [Navigating by Object Title](#)
- [Hour View and Shift View](#)
- [Rollup Hotspots](#)
- [Filters](#)
- [Show and Hide](#)
- [Production Lost](#)
- [Buttons and Descriptions](#)
- [Reporting \(Production Monitor\)](#)
- [Screen Print](#)
- [Over Cycle \(Last 50000\) and Over Cycle \(Selected Shift\)](#)
- [Top Assets by Line, Station, and Top 3](#)
- [Top 3 Pallets \(AVG\)](#)



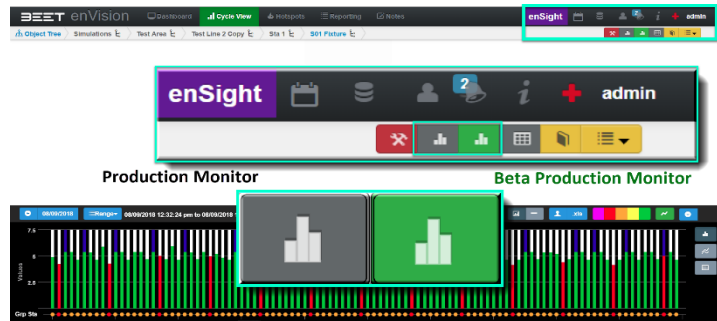
## Location 3.6

The Production Monitor button is located in the upper right hand corner of the enVision Browser window in highlight.

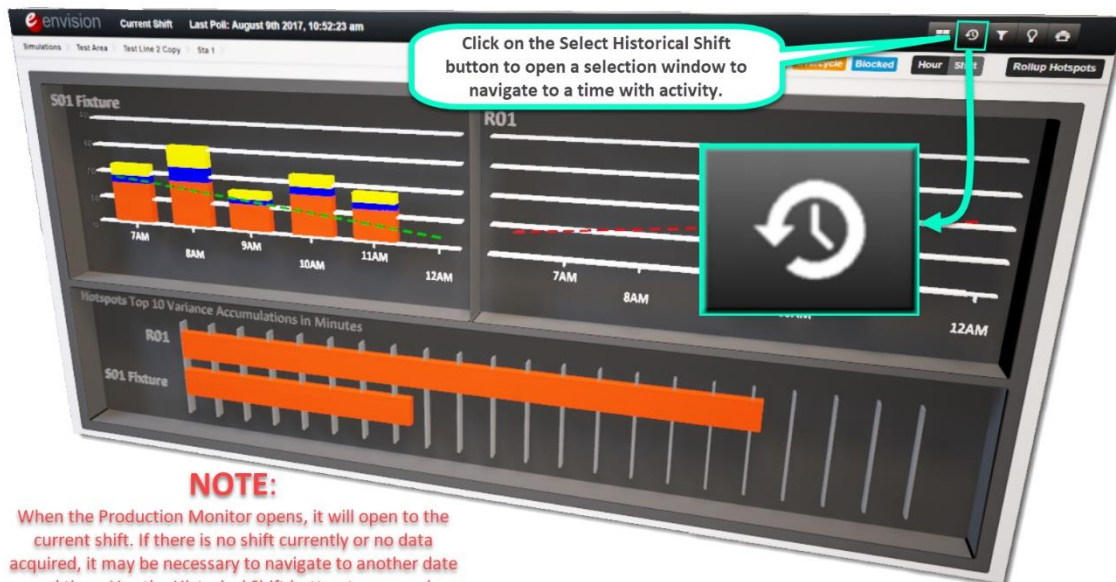
Once selected, it will open a new window with the Production monitor. In this new window, there will be an Objects window for you to navigate to the object you desire.

**Click** through the Objects string to get to the object desired. Once you have revealed the level desired, then **Click** on the **Save** button. This will open a new Browser.

This Production Browser can be opened in levels from **AREA**, **LINE**, **STATION**, to **ASSET**.



A browser window will open to the location selected. The Production Monitor will default to the current day or shift. If there is not any data for current shift, it may be necessary to look back into the past for data. This module works with current data and historical data.



**NOTE:**

When the Production Monitor opens, it will open to the current shift. If there is no shift currently or no data acquired, it may be necessary to navigate to another date and time. Use the Historical Shift button to proceed.

## Select Historical Shift 3.6



This opens and displays a **Previous Shifts** window that will allow you to choose from the Current Shift all the way to the last few months. To view a specified date, scroll down to the date, and shift desired and **Click** on it. This will re-open the window (at the same level) of the day and shift selected.

The screenshot shows the 'envision' software interface. The main window displays a bar chart for 'Night Shift 2/17/2017' with data for Sta 1 and Sta 2. A 'Previous Shifts' window is open, showing a table of shifts. A date selection dropdown is also visible, with '2/17/2017' highlighted. A red arrow points from the dropdown to the main window's title bar.

Day/Week	Date	ShiftName
Saturday	2/18/2017	Night
Saturday	2/18/2017	Day
Friday	2/17/2017	Night
Friday	2/17/2017	Day
Thursday	2/16/2017	Night
Thursday	2/16/2017	Day
Wednesday	2/15/2017	Night
Wednesday	2/15/2017	Day
Tuesday	2/14/2017	Night
Tuesday	2/14/2017	Day
Monday	2/13/2017	Night
Monday	2/13/2017	Day
Sunday	2/12/2017	Night
Sunday	2/12/2017	Day

To view a specified date, scroll down to the date, and shift desired and **Click** on it. This will re-open the window (at the same level) of the day and shift selected.

Once the browser is open to the location desired, an alternate way to navigate to a higher or lower object can be done either by selecting the Change Object Icon, Object Labels, or the Object String Tab.

## Change Object 3.6



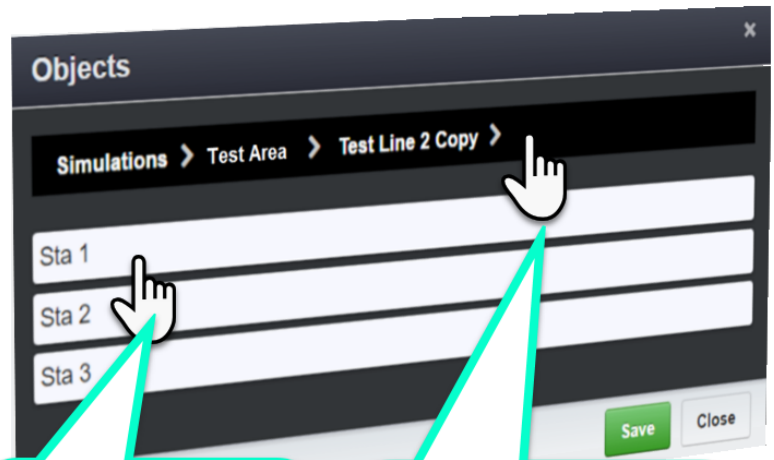
This displays a window to navigate up or down an Object Tree. **Click** on the Object in the white part of the window:

**Click** in an Object in the black portion of the Object window;

**Simulation > Test Area > Test Line 2 Copy >\_>** to navigate Upward to an Object desired. **Click** the **Save** button to open the objects below the selected object.

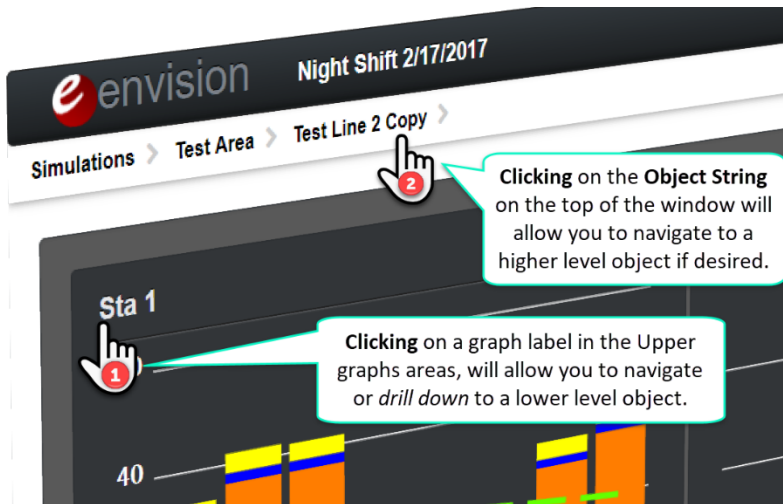
## Alternate Navigational options

There are additional ways to navigate to a higher level or drill down to a lower level object, by using the Object Title Label, or the Object String (Address) on the top left hand side of the Production Monitor Browser.



Click and select in the white area to drill down through the Object Tree to your desired level.

Click and Select in the dark area to navigate to a higher level (e.g from a Line Object to an AREA or PLANT).



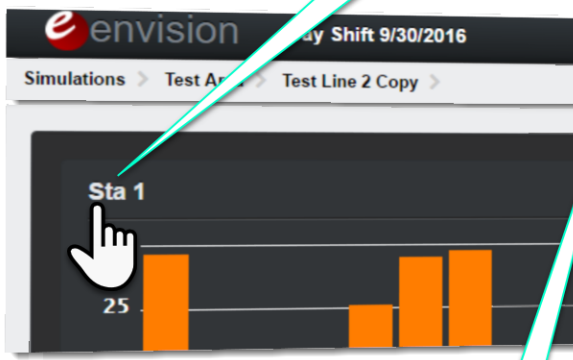
**Clicking** on the Object Title Label **1** of the upper graph will open a new Production Monitor window with a new graph of the objects below the selection.

**Clicking** on the Object String **2** at the top of the browser. Doing this will open a new browser with a **higher level** Object.

## Navigating by Object Title

The titles on the upper portion of the Production monitors are active links to the next level below the current object being viewed.

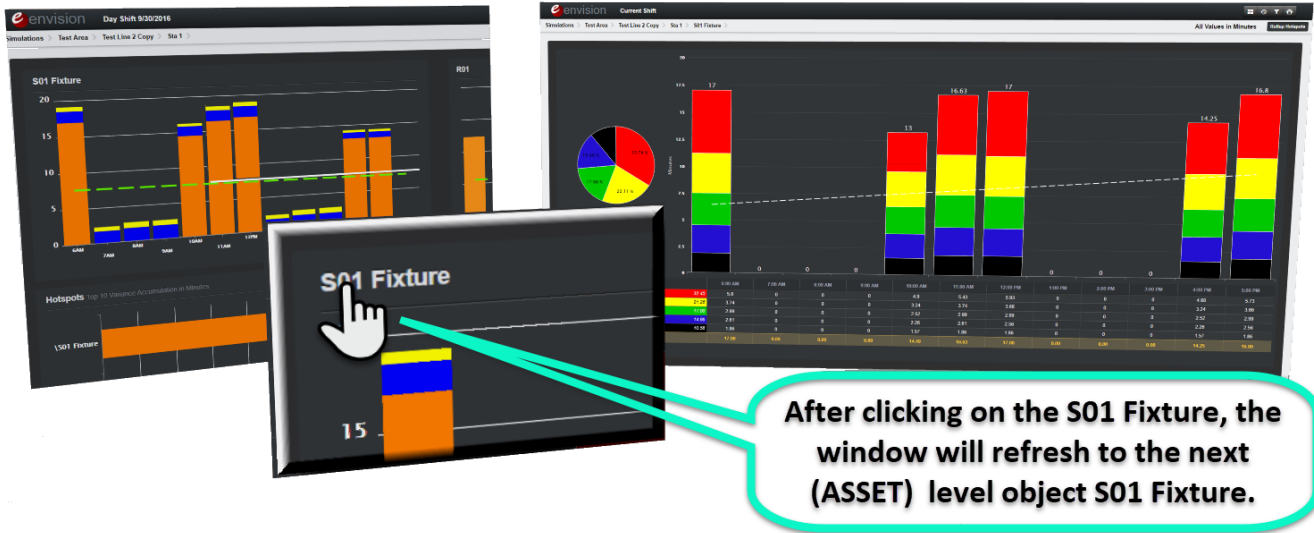
Clicking on a graph label in the Upper graphs areas, will allow you to navigate or **drill down** to a lower level object



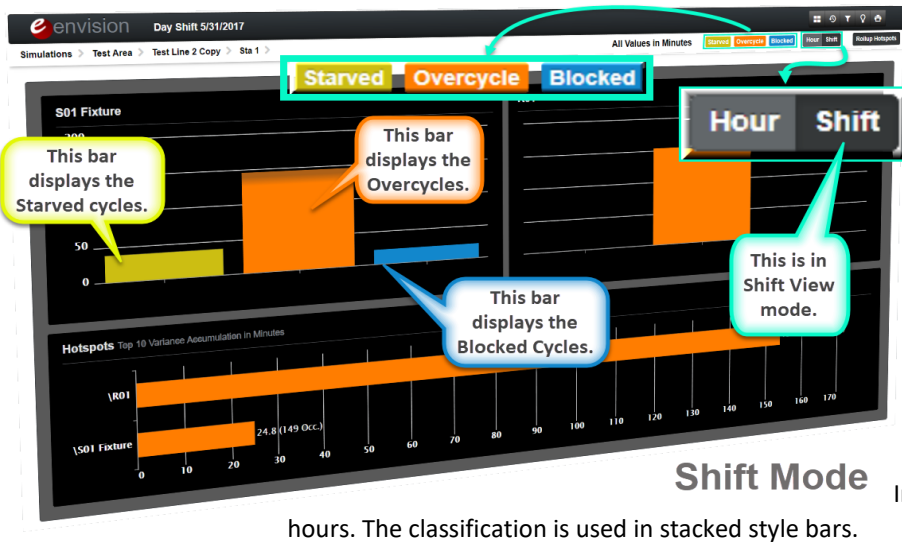
After **clicking** the **Sta 1**, the window will refresh to show the Objects below the **Sta 1**, **S01 Fixture** and **R01**.



Clicking on the S01 Fixture will reopen the window that selected level. You can drill down to the Asset level.



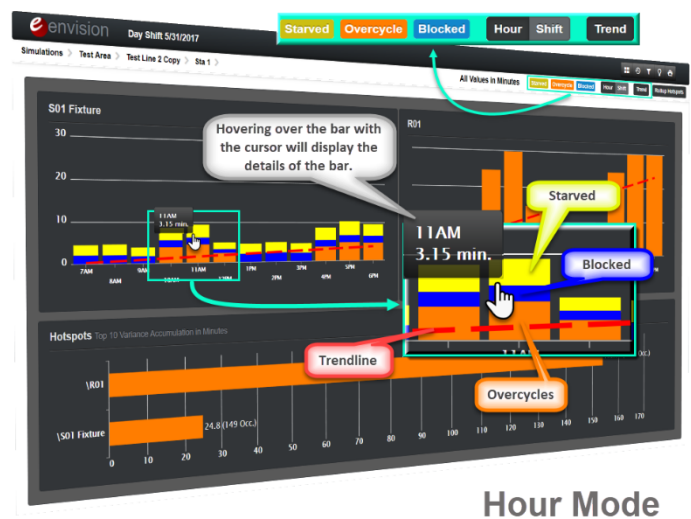
### Hour View and Shift View 3.6



### Hour View and Shift View

After selecting location from the Object Tree, a browser will open. These examples show the Hour View and Shift view side by side. In the lower part of the browser is the lower graph in a Rollup Hotspots View ON and OFF. The Shift View shows the bars separated by its classifications and color coding. They are yellow for Starved, orange for Overcycle, and blue for Blocked.

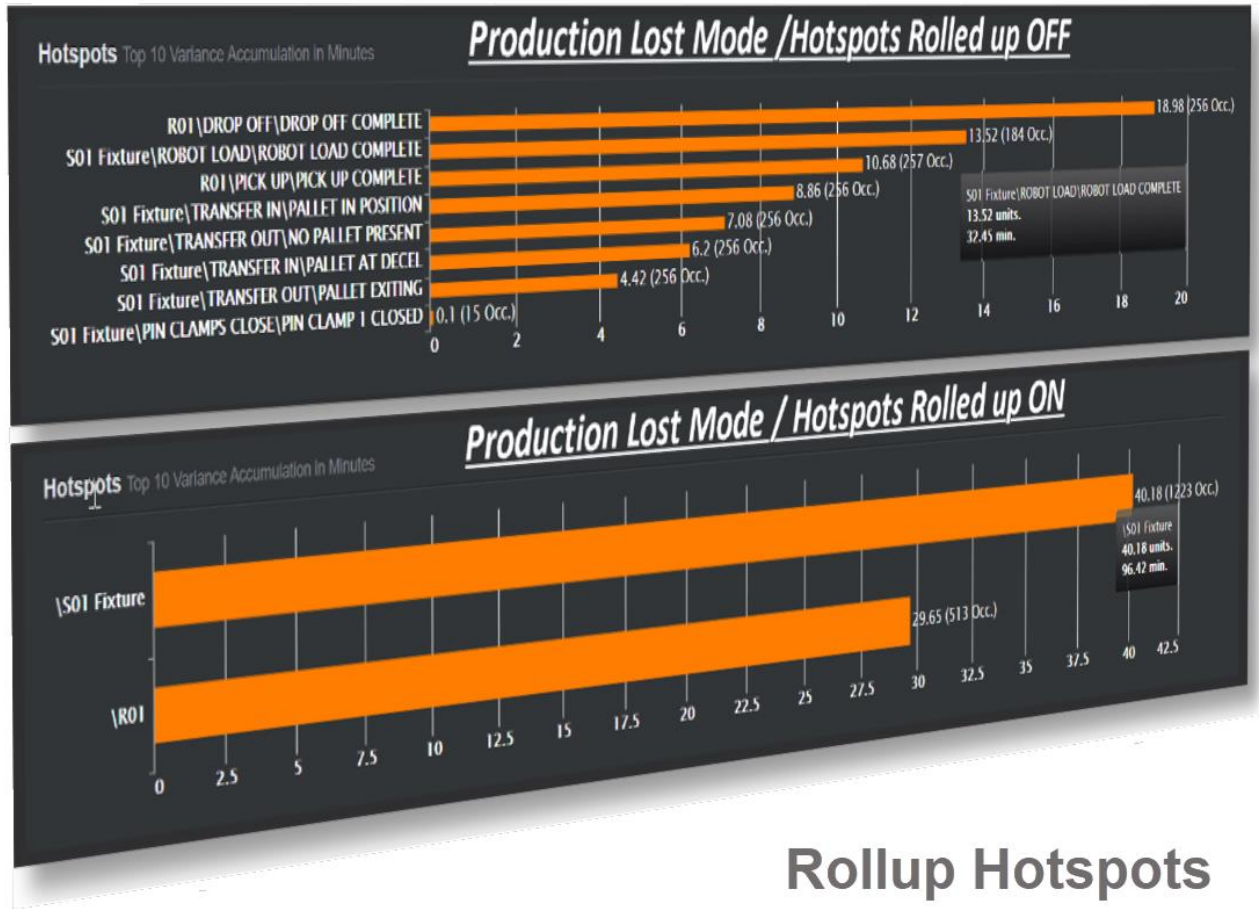
Hovering over the bars with the cursor will reveal the details of the cycles.





## Rollup Hotspots 3.6

The Rollup Hotspots button will take the top 10 variances, will roll the group object displayed into the Assets in a display.

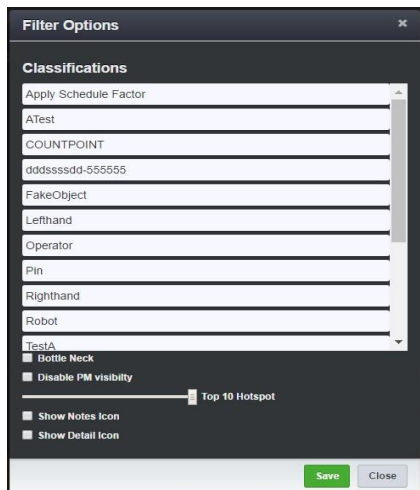
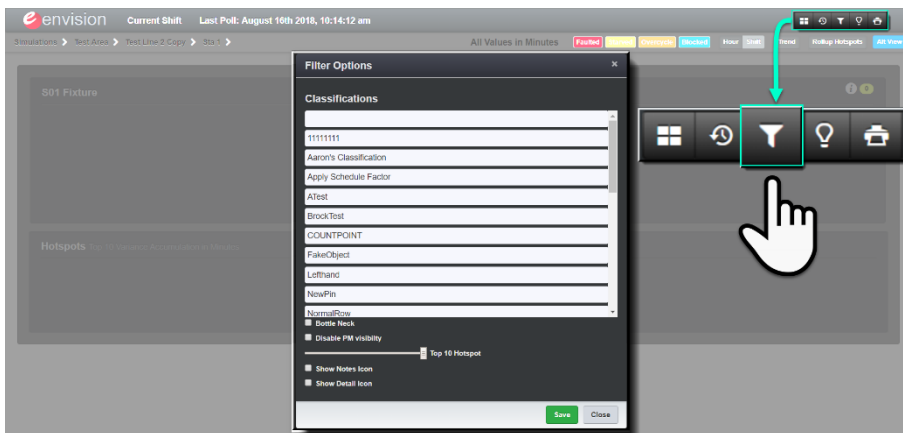


# Filters 3.6



The Filters tab allows the user to select and sort by Classification.

The Filter tab is located on the upper right hand corner of the Production Monitor browser.



By selecting the filter button in the Production Monitor browser, a filter options window will open. From there, you can select the classifications you would view. You can also select to view Bottleneck, Disable PM visibility, show Notes Icon, Show Detail Icon, and adjust the number of Hotspots you would like to view (1 – 10).



## Show and Hide

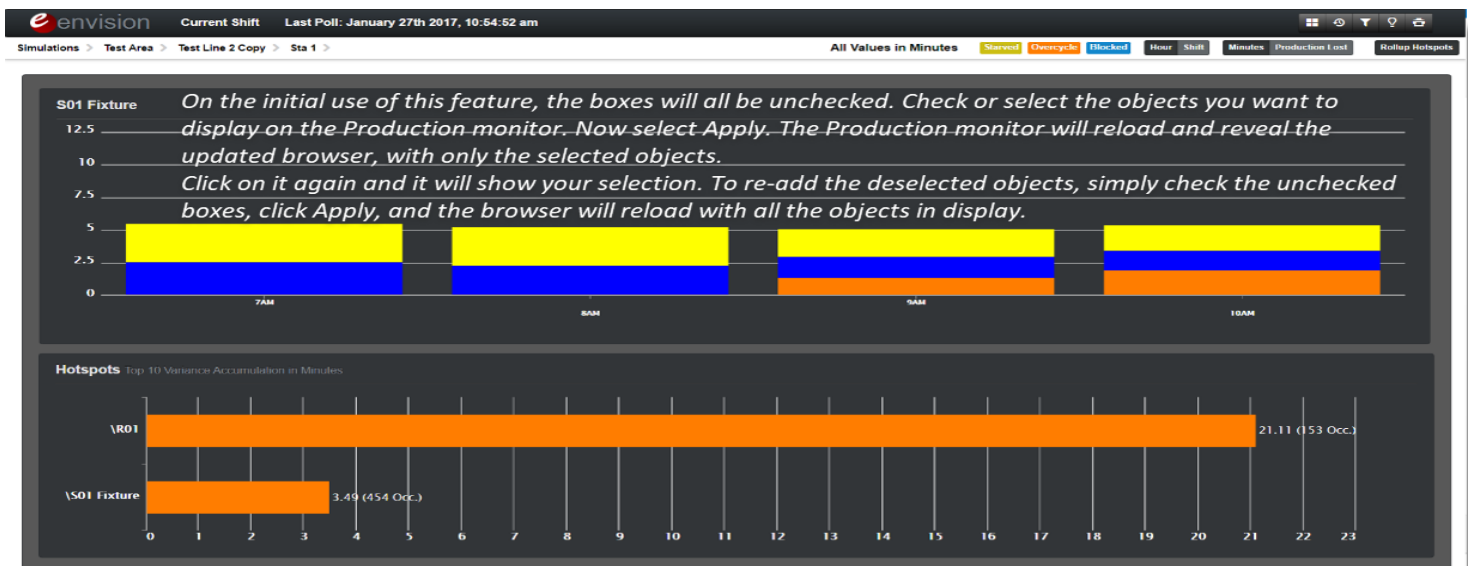


When using the Production Monitor, it is possible to remove objects from view. Click on the Show/Hide button and a window will appear with a list of the objects with check boxes next to them.



Click on the Show/Hide button and a window will appear with a list of the objects with checkboxes next to them.

On the initial use of this feature, the boxes will all be unchecked. Check or select the objects you want to display on the Production monitor. Now select Apply. The Production monitor will reload and reveal the updated browser, with only the selected objects. Click on it again and it will show your selection. To re-add the deselected objects, simply check the unchecked boxes, click Apply, and the browser will reload with all the objects in display.



## Production Lost 3.6

When the **Production Lost** button is selected, the browser window will open to a similar window as previous, however, the bottom graph will change the scale and will have the total Units lost presented. In the upper graph, it looks similar Minutes (mode/default), but the Minutes and Units will be reversed.



### Production Lost

S01 Fixture\ROBOT LOAD\ROBOT LOAD COMPLETE  
 13.52 units  
 32.45 min.

### Minutes

S01 Fixture\ROBOT LOAD\ROBOT LOAD COMPLETE  
 32.45 min.  
 0.00 units



Buttons and Descriptions 3.6

Day/Week	Date	Shiftname
Monday	8/14/2017	Day
Monday	8/14/2017	Day
Saturday	8/12/2017	Day
Friday	8/11/2017	Day
Thursday	8/10/2017	Day
Wednesday	8/9/2017	Day
Tuesday	8/8/2017	Day
Monday	8/7/2017	Day
Sunday	8/6/2017	Day
Saturday	8/5/2017	Day
Friday	8/4/2017	Day
Thursday	8/3/2017	Day
Wednesday	8/2/2017	Day

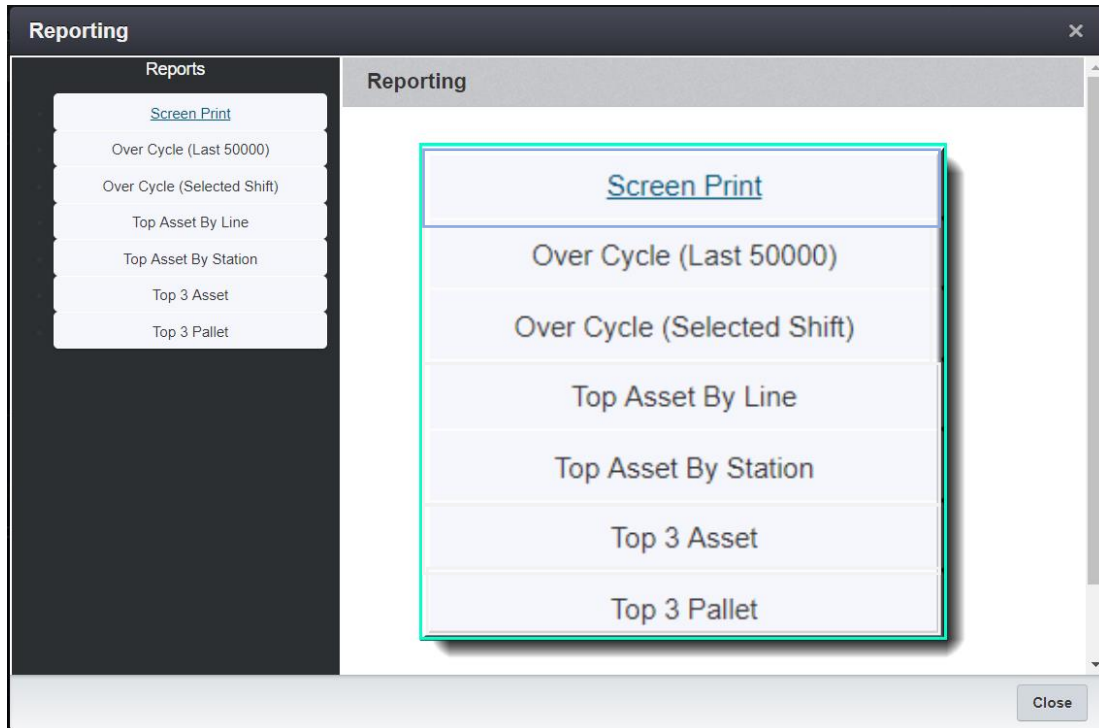


## Reporting (Production Monitor) 3.6



The Reporting feature of the Production Monitor displays a window with a selection of Report to view by Preview, Excel, or PDF. **Click** on the selection under reports, then choose the option to view.

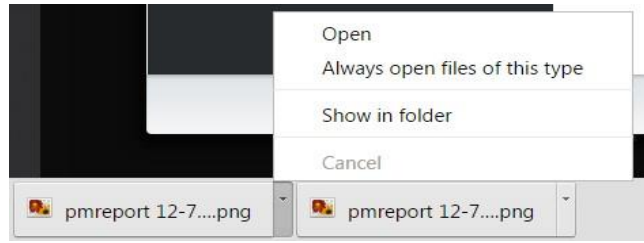
When the Reporting Button is selected, a window will open with a menu in the upper left-hand corner. There are 7 choices of ways to view object data.



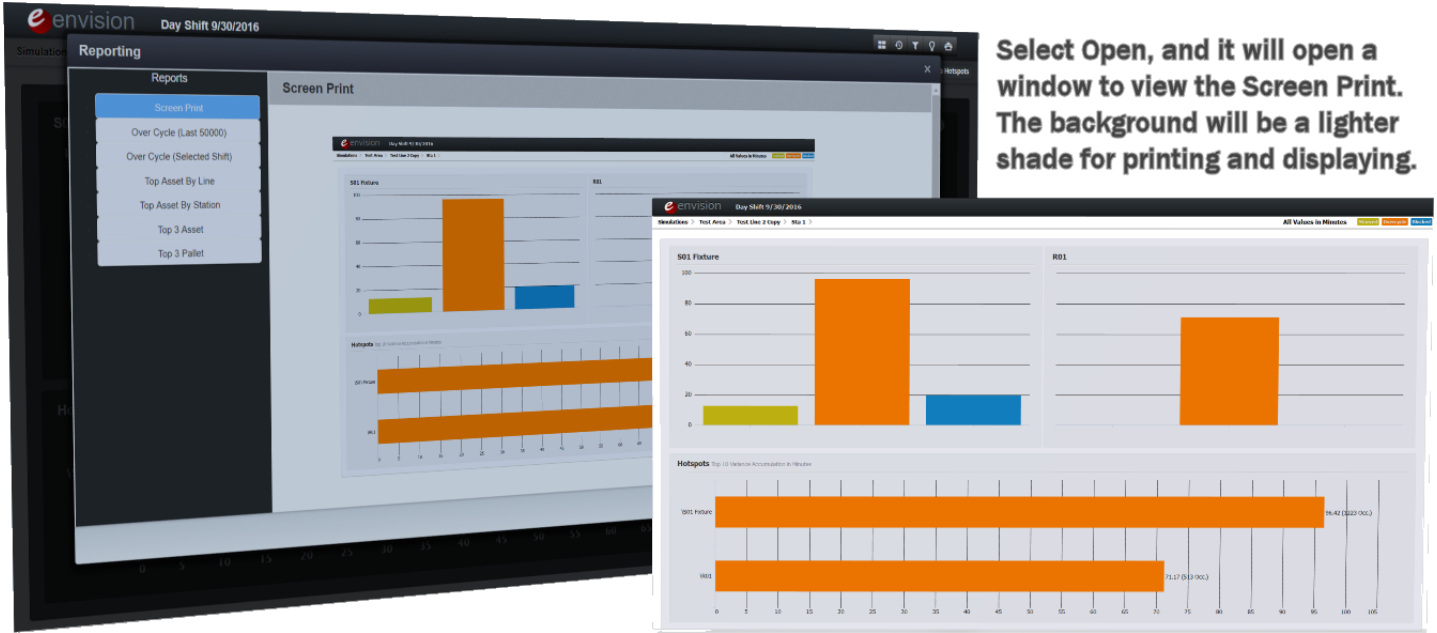


### Screen Print 3.6

Select Screen print will copy the current browser window and open it in a PNG format. At the bottom left hand corner, a tab will open to view the .png file. Select **Open**, and it will open a window to view the Screen Print. The background will be a lighter shade for printing and displaying.

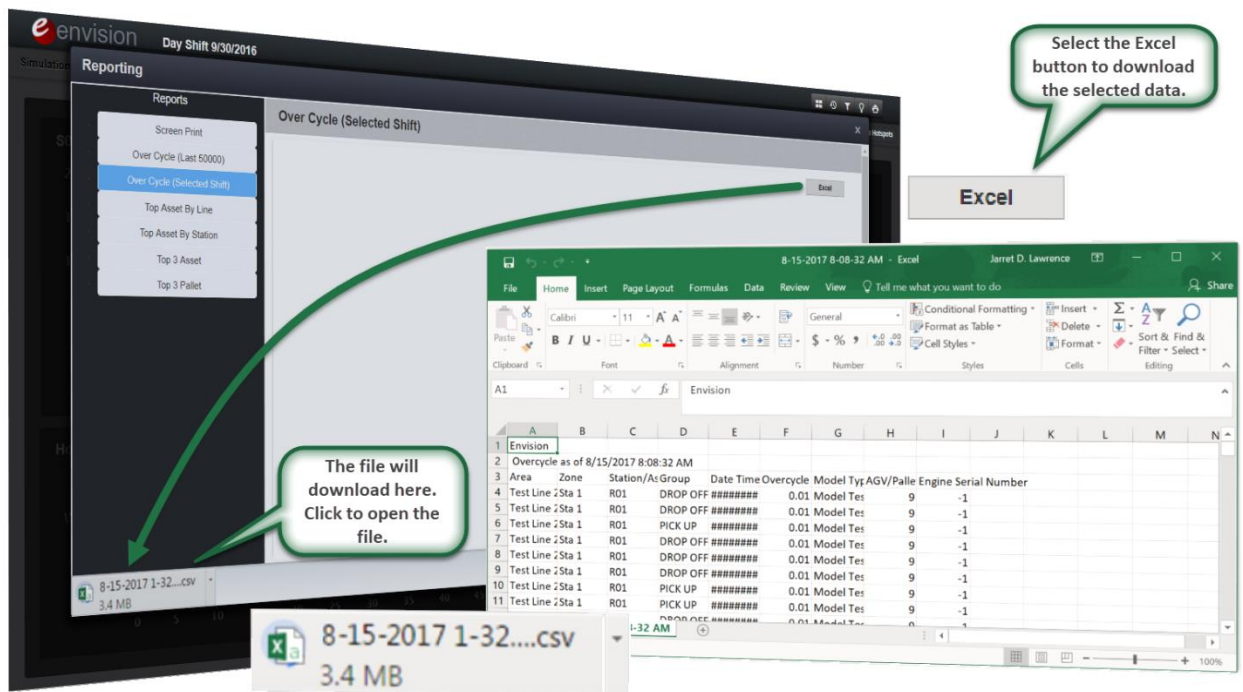


Select Open, and it will open a window to view the Screen Print. The background will be a lighter shade for printing and displaying.



### Over Cycle (Last 50000) and Over Cycle (Selected Shift) 3.6

Both Over Cycle (Last 50000) and Over Cycle (Selected Shift) work the same way to download to an Excel file for viewing. Simply click on the Excel button and the current file will be download.



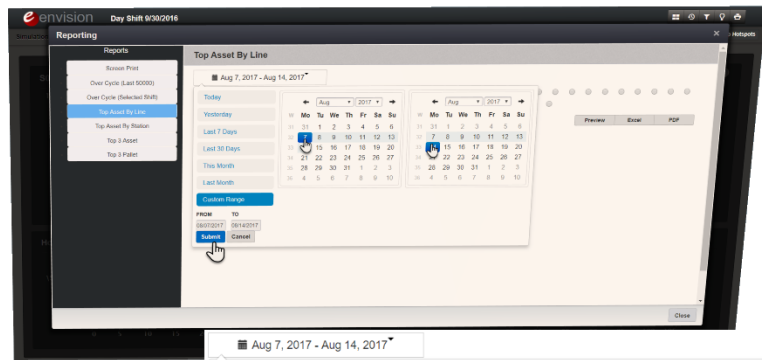
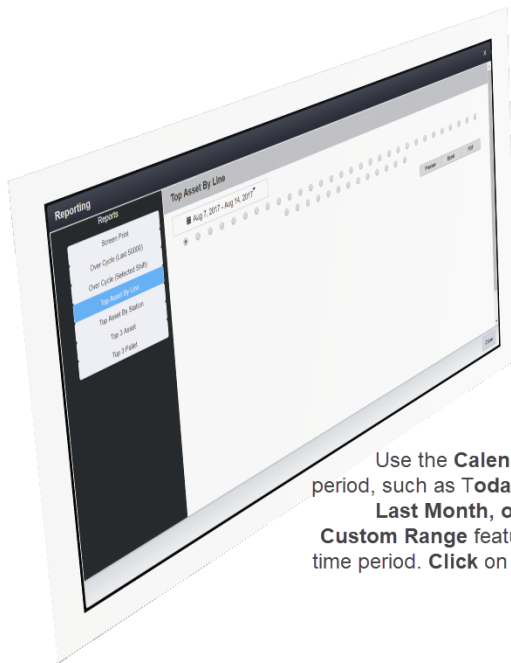
### Top Assets by Line, Station, and Top 3 3.6

All 3 have the same 3 view options to choose from. Selecting preview will open a preview window within the reporting window. Choosing Excel or PDF will download and open the object data to the chosen format.

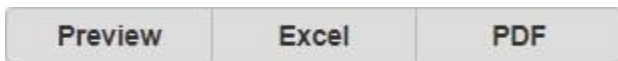
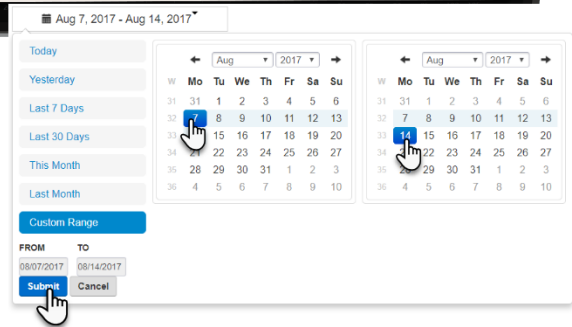
When Top Assets by" is selected it will open to a screen containing a Calendar option. The user can pick a day from the list or click on the Date box to access a custom calendar to make a selection.



User the Calendar option to select a time period, such as Today, Yesterday, Last Week, Last Month, or This Month. The User may also utilize the Custom Range option. This will allow the user to select a specific time period by selection of a start and end date. Click Submit when the dates are set.



Use the **Calendar** option to select a time period, such as **Today**, **Yesterday**, **Last Week**, **Last Month**, or **This Month**. Or use the **Custom Range** feature to designate a specific time period. Click on the **Submit** when you are finished.



After you've submitted, you can now pick the type of preview you would like to view. You can preview in the browser window or download to an

Excel sheet or PDF.



### Top 3 Pallets (AVG) 3.6

This opens a window with a drop down to select the date. It also has the choices of Preview, Excel, and PDF. Preview is shown in this example.

AGV/Pallet Zone	Station/As Group	Date Time	Overcycle	Model Type	Engine Serial Number
318 STA 30	Sta 30 In-S Release LP	#####	0.81	Accepted Part OPTIOI 29950772	
306 STA 31	Sta 31 In-S Advance D	#####	1.35	Accepted Part OPTIOI 29950770	
306 STA 30	Sta 30 In-S Release LP	#####	0.76	Accepted Part OPTIOI 29950770	
304 STA 30	Sta 30 In-S Release LP	#####	0.62	Accepted Part OPTIOI 29950769	
59 STA 31	Sta 31 In-S TP Enters (	#####	3.06	Accepted Part OPTIOI 29950768	
301 STA 31	Sta 31 In-S TP Enters (	#####	4.06	Accepted Part OPTIOI 29950767	
325 STA 30	Sta 30 In-S Release LP	#####	0.79	Accepted Part OPTIOI 29950765	
303 STA 30	Sta 30 In-S Release LP	#####	0.78	Accepted Part OPTIOI 29950764	
316 STA 30	Sta 30 In-S Release LP	#####	0.63	Accepted Part OPTIOI 29950763	
310 STA 31	Sta 31 In-S Advance D	#####	1.17	Accepted Part OPTIOI 29950762	
310 STA 30	Sta 30 In-S Release LP	#####	0.81	Accepted Part OPTIOI 29950762	
313 STA 30	Sta 30 In-S Release LP	#####	0.78	Accepted Part OPTIOI 29950761	
308 STA 31	Sta 31 In-S TP Enters (	#####	3.54	Accepted Part OPTIOI 29950757	

DAY	Pallet	Minutes
	313	94.82
	322	89.28
	314	85.93
NIGHT		
	303	63.98
	324	60.40
	305	57.97
OVERALL		
	134	0.70
	105	0.95
	120	1.00

## Reporting 3.6



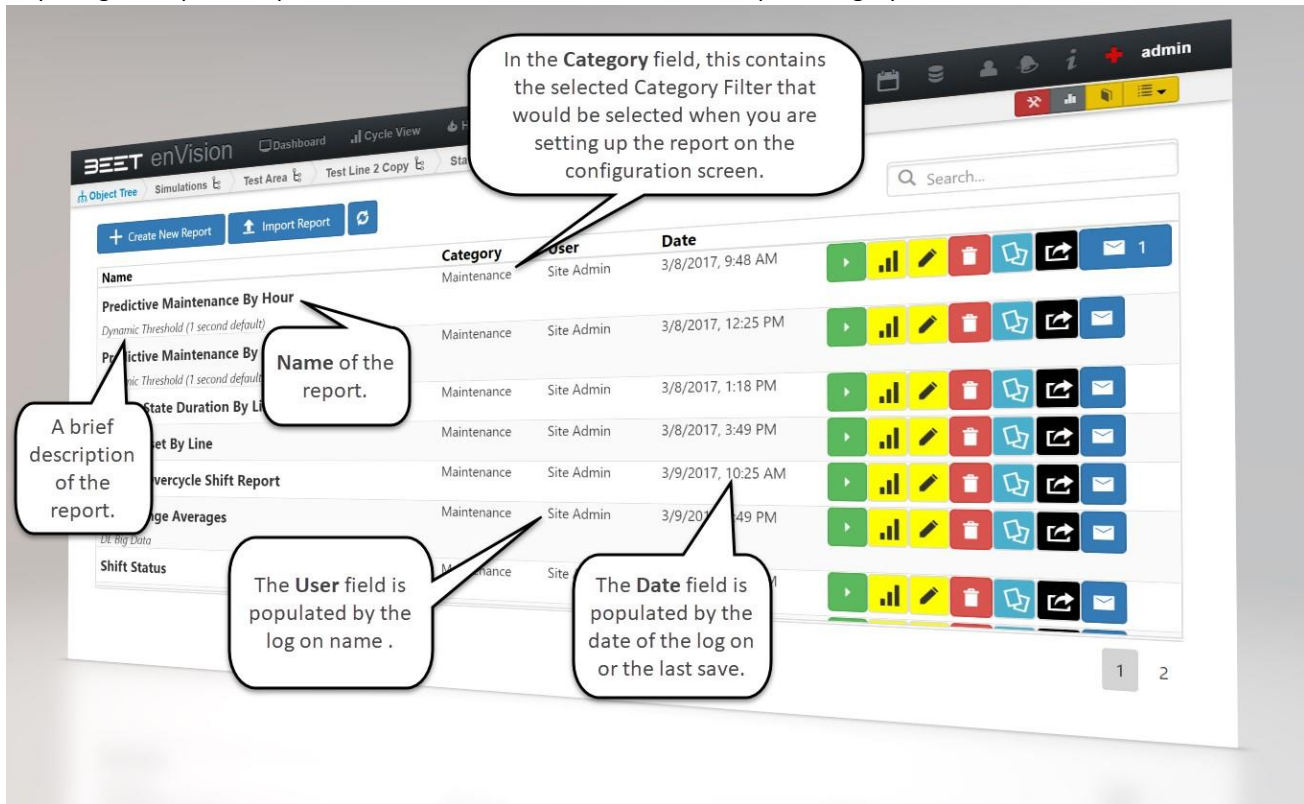
### Overview

Reporting and Dashboard modules are features of enVision that allows a user to design, personalize, setup, and configure customized reports. You can also have it send reports at specific times and choices of reports.

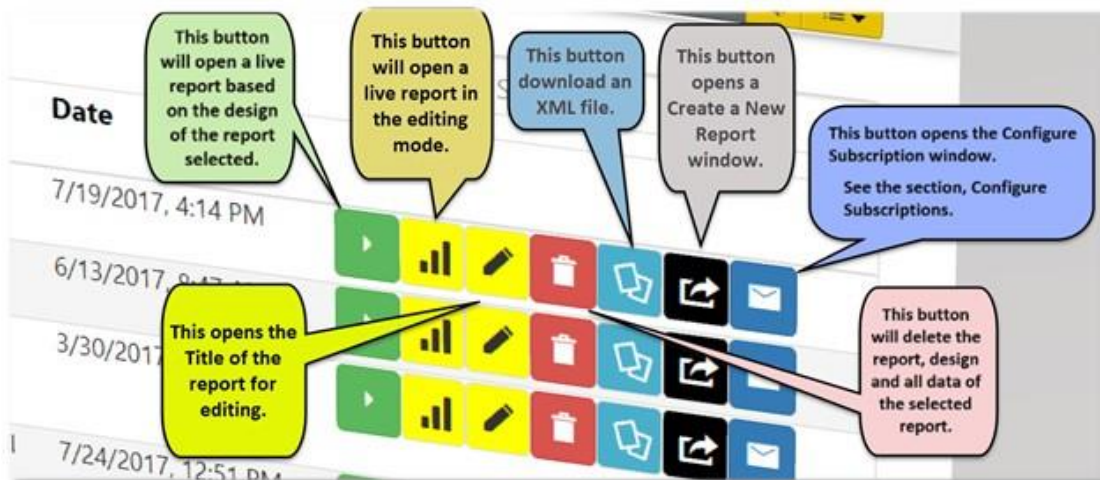
- [Opening the Module \(Reporting \)](#)
- [Opening Dashboard Reports](#)
- [Run \(Reporting \)](#)
- [Reports \(Reporting \)](#)
- [Creating a New Report](#)
- [Report Editor Board](#)
- [Configuration Menu Panel](#)
- [Field List](#)
  - [Field List](#)
- [Properties](#)
  - [Properties](#)
  - [ACTIONS](#)
  - [STYLES](#)
  - [APPEARANCE](#)
  - [FONT](#)
- [Report Explorer](#)
  - [Report Explorer](#)
- [Creating a New Report](#)
- [Report Editor Board](#)
- [Subscribe \(Reporting \)](#)
- [Overview \(Subscribe \)](#)
- [Configuring Subscription \(Subscribe \)](#)
- [Setting up the Subscription \(Subscribe \)](#)

## Opening the Module (Reporting 3.6)

Open the enVision browser. In the upper menu, select the Reporting Tab. This will open the Starting page menu. The browser will reopen at the starting screen for the enVision Reporting browser. In the main window, there is a menu that consists of a list of previously designed report templates, that can be sorted or filtered based upon category.



The Reports page has a list of previously configured reports ready to be utilized. You can create and design a new report to suit your needs. To use an already configured report, select the **green** button (green) and it will open the setup window for the configured report selected. To open the Edit report window, select the (yellow) **Edit Report** button to open the reports editing window. To edit the Report Name, click on the edit name button . To delete a report template, select the **red** Delete button (red), and this will delete the report template selected. You can make a copy of a report by selecting the copy button, and this will create another copy to use. To subscribe to a report, select the **Subscribe** button (blue) .



## Opening Dashboard Reports

Open the Dashboard Reports by **Clicking** the **Reporting Tab** on the top menu, then click on the **green Run** button of your selected report. Once selected, it will reveal the Dashboard Reports Setup screen.



### Report Parameters

SelectDate Range\*

Select Object\*

- Envision Default Plant
- Ivan
- ITT
- Ford KTP
- Brocks
- Simulations
  - Test Area
    - Test Line 2 Copy
    - Sta 1
      - S01 Fixture
  - CYCI F TIME

Status (Optional)

- Good
- Watch
- Warning
- Fault
- Missing

Shift Crew (Optional)

- Crew A
- Shift 1 (3hr)
- Crew B
- Crew C
- Weekend

Shift (Optional)

- test 2
- test
- Test-OR
- day
- Afternoon
- Midnights
- TEST2
- t44
- T55

Classification (Optional)

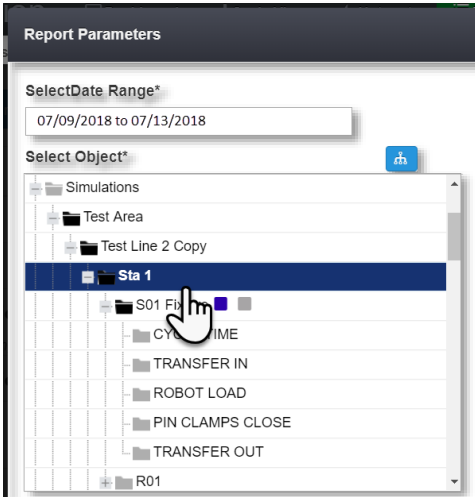
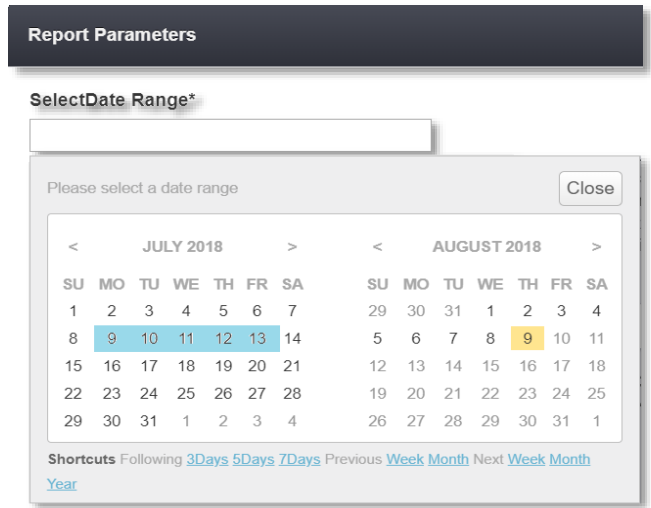
- Unknown
- null
- Aaron's Classification
- Apply Schedule Factor
- ATest
- COUNTPOINT
- ddssssdd-555555
- FakeObject
- Lefthand

Reset Save Close

## Run (Reporting 3.6)

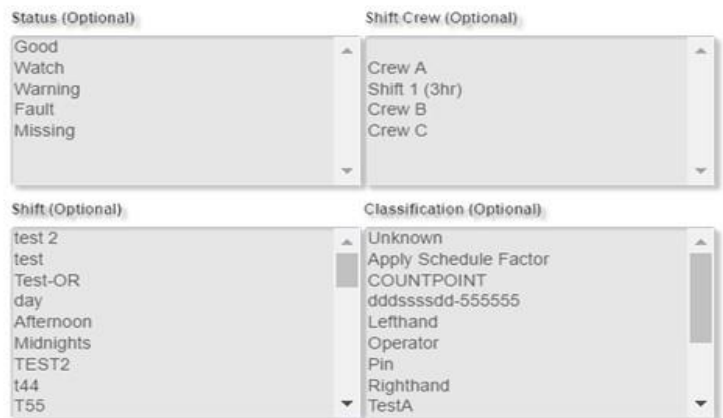
Selecting the **Run** button will open a **Report Parameters** window. This window configures and selects the data for the report. In this window, you have the options to set the date range, select an object from an object tree, and filter the report data by Status, Shift, Shift Crew and Classification.

**Click** on the **edit box** of the **Select Date Range**, and a 2-month calendar will open. Choose the start date by **Clicking** on it, then **Click** again on the **end date**. This will highlight the date range you select. On the bottom of the 2-month menu, are some shortcuts that can be used as well.



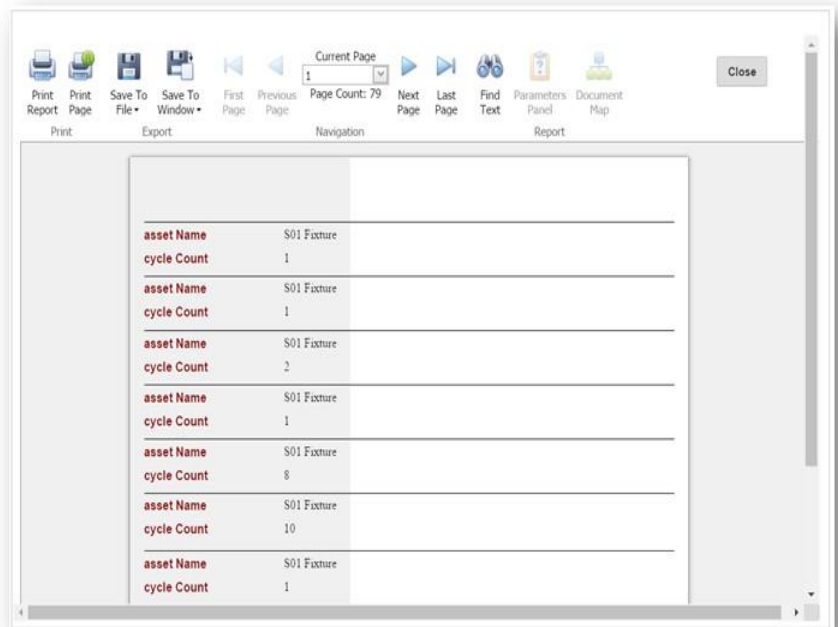
Once the date ranges are set, you can now navigate to the object of your desire, by using the **Object Tree** located below the **SelectDate Range** menu. **Click** on the **+** sign to reveal the object below the current selection. Once you reach the level intended, Click on the Title (label) desired.

After it has been selected, you can also filter and/or sort the results of your



report by utilizing the selection menus on the right-hand side of the windows. You can sort by Status, Shift, Shift Crew, and Classification. These are optional. Click the **Save** button and the report window will launch and display the data based upon the report selected (or based upon how the report was setup).

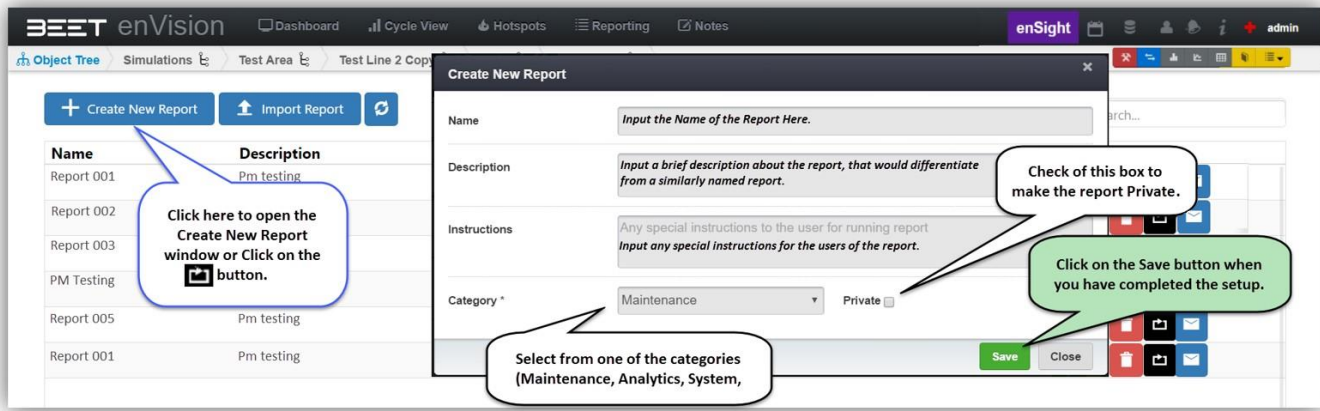
After Clicking the **Save** button, the Dashboard will update the data to the template chosen and display in a browser.



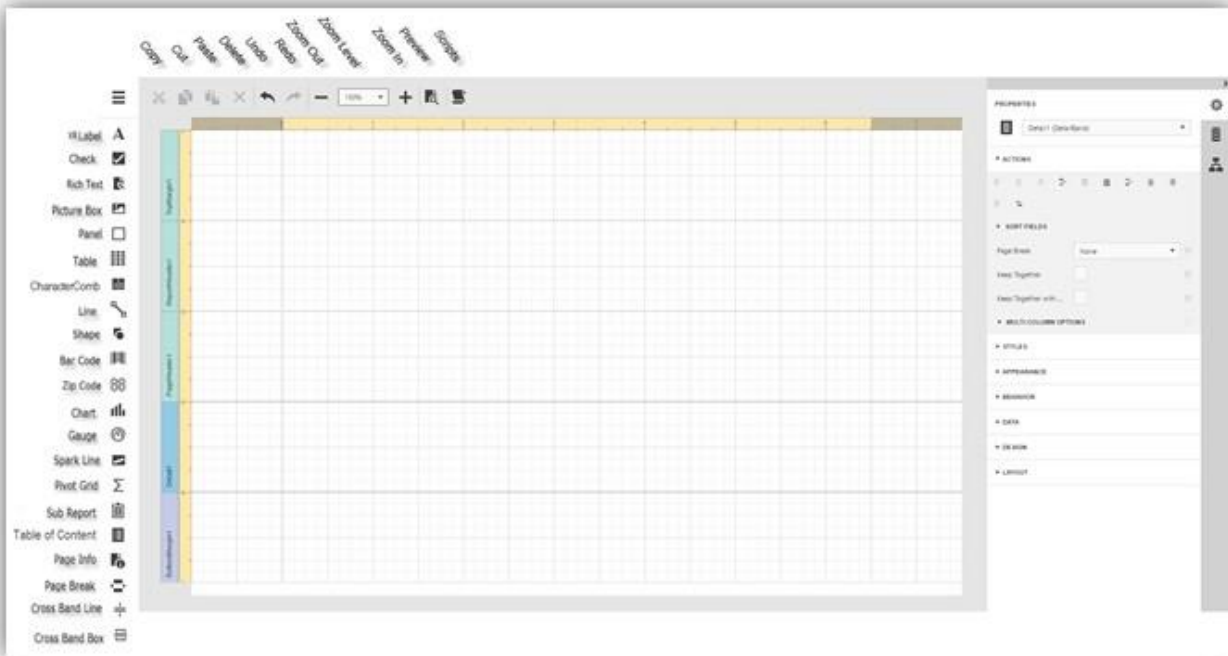
## Creating a New Report

**Click** on the **+Create New** tab to open the Create New Report information window. In this window, you can input the necessary information needed to create a report template. Input the Name of the report, then the Description which appears under the name of the report on the Report

List Window. Select the appropriate category for the report. Choose the orientation of the report, between Portrait or Landscape (default is Landscape).

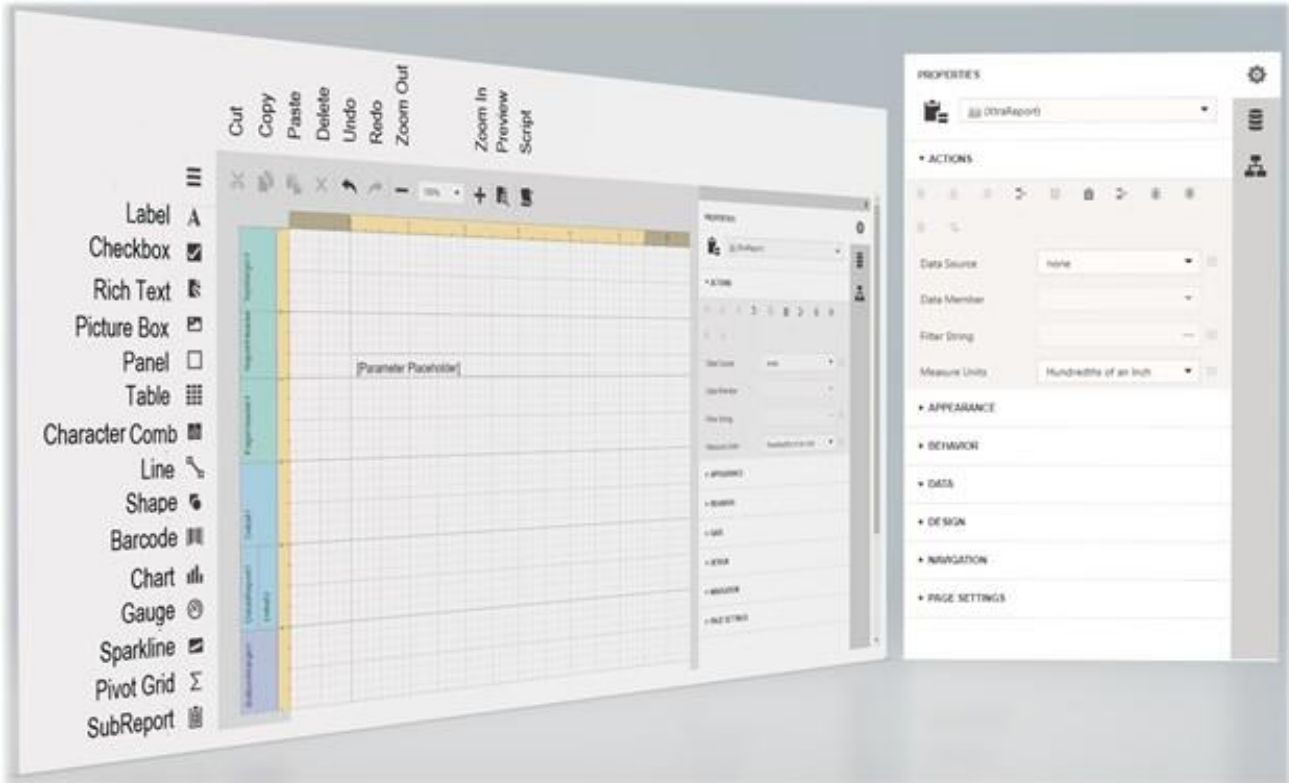


After selecting **Save** on the Create New Report information window, **Report Editor Board** window will appear. From here, you can setup, configure, and populate the report with the necessary information that you desire.



## Report Editor Board

The Upper menu consist of typical commands common to a windows program. On the left side is the types of objects to install on the **Report Editor board**. Once an object is placed on the **Report Editor board**, they can be configured by using the menu on the right-hand side of the window. In default, the configuration menu pane is open. If not, **click** on the arrow in the top left hand corner to reveal the configuration menu pane.



## Configuration Menu Panel 3.6

The Configuration Menu Panel is separated into three parts needed to setup and configure the parameters installed in the Editor/Designer window. They are **Properties**, **Field List**, and **Report Explorer**.



[Field List](#)



[Properties](#)



[Report Explorer](#)

### Field List 3.6



The Field List can be setup with **DataSources** and **Parameters**. Each of these can open to reveal many different options depending upon what object parameter is chosen. Simply **Click**, hold, and drag the object over to the Editor Board and drop. **Click** on the object and go to **Properties** to configure.



Add DataSource

There are several sections under the Add DataSource Tab. They are Cycles (Hourly, Shift, Week, ShiftNoPallet, and WeekNoPallet), Hotspots, States, Notes, OEE, and Raw Cycles. Click on the icon to reveal the objects within.

Once revealed, the objects added onto the Report Editor Board.



**cycles**

- ab areaname
- ab assetname
- 12 averagecyclelength
- 12 baseline
- ✓ bottleneck
- 12 cydecou
- 12 cyclime
- 🕒 datestamp
- 12 delta
- ab groupname
- 12 hourofday
- ab linename
- 12 maxcycle
- 12 median
- 12 mincycle
- ab modelname
- ✓ paypoint
- ab plantname
- 12 productionminutes
- ab shiftname
- ab shifttag
- ab stationname
- ab status
- 12 stddeviation
- ab tagclassification
- ab tagname
- 12 totallength
- 12 variance

**Hotspots**

- ab areaname
- ab assetname
- 12 averagecycltime
- 12 baseline
- ✓ bottleneck
- 12 cydecou
- 12 cyclime
- 🕒 datestamp
- 12 delta
- ab groupname
- 12 hourofday
- ab linename
- 12 median
- ab modelname
- ab objectpath
- ab plantname
- 12 productionminutes
- ab shiftname
- ab shifttag
- ab stationname
- ab tagclassification
- ab tagname
- ab taguid
- 12 totalleng

**States**

- ab areaname
- ab assetname
- 12 avgstate
- 🕒 datestamp
- 12 hr
- ab linename
- 12 maxstate
- 12 minstate
- ab plantname
- ab shiftname
- ab shifttag
- 12 statecount
- ab statemode
- ab stationname
- 12 totallength

**Notes**

- ab areaname
- ab assetname
- 🕒 cyddt
- 🕒 datestamp
- ab groupname
- ab linename
- ab message
- ab modelname
- ab pallet
- ab shiftname
- ab shifttag
- ab stationname
- ab subcategoryname
- ab username
- 12 variance

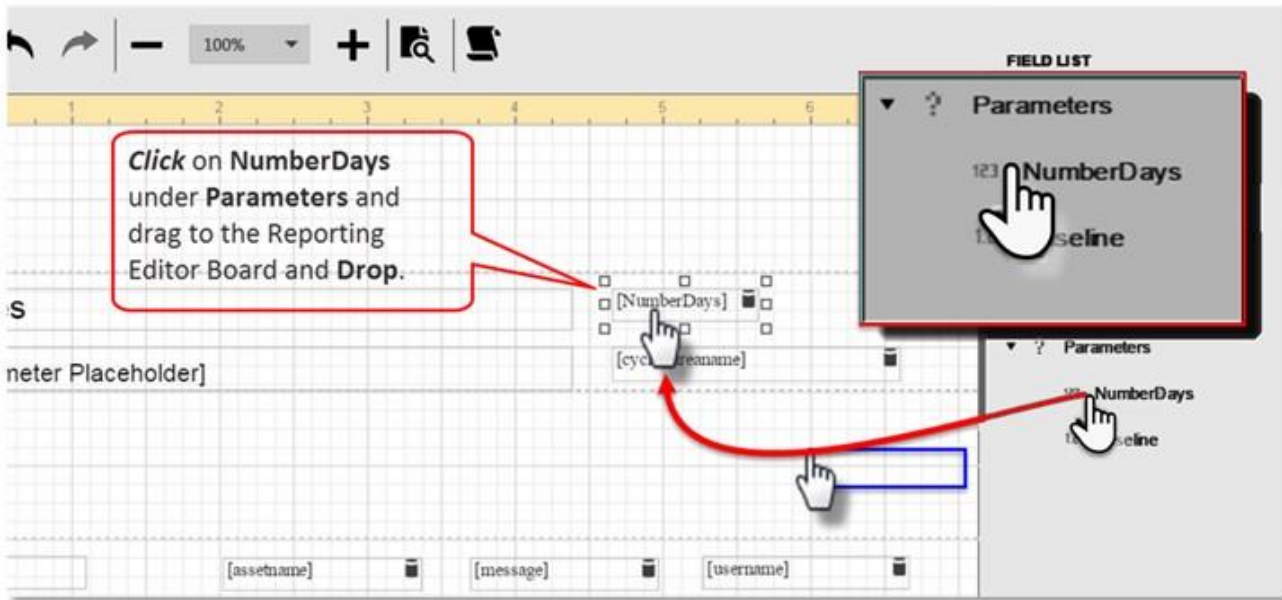
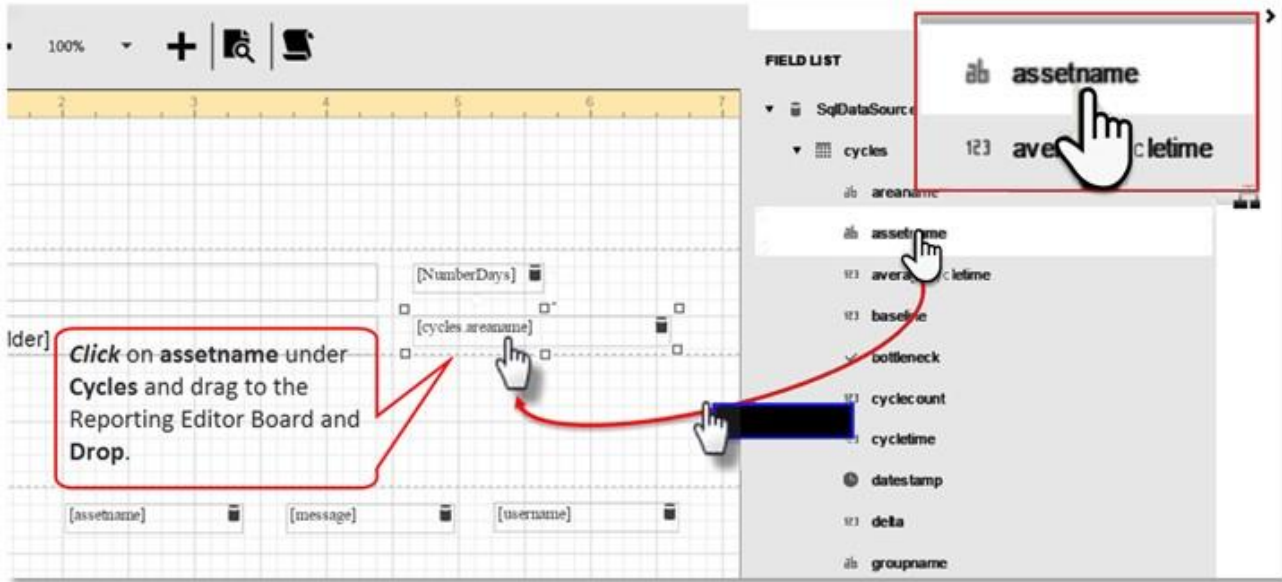


### Parameters

In this example, under the Parameter label are **NumberDays** and **Baseline**. These are objects that can be dragged and dropped onto the Report Editor Board.

You can add more parameters by selecting the + sign next to it. Click, configure and then you can add them to the report.

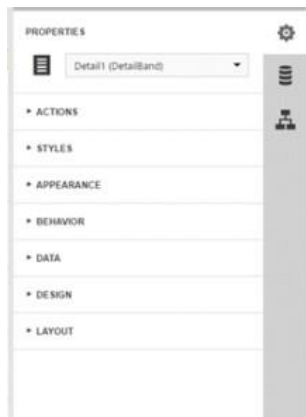
In these screenshot example, we selected **assetname** under the cycle label. **Click** and hold, then drag it over to the appropriate place on the Reporting Editor Board.



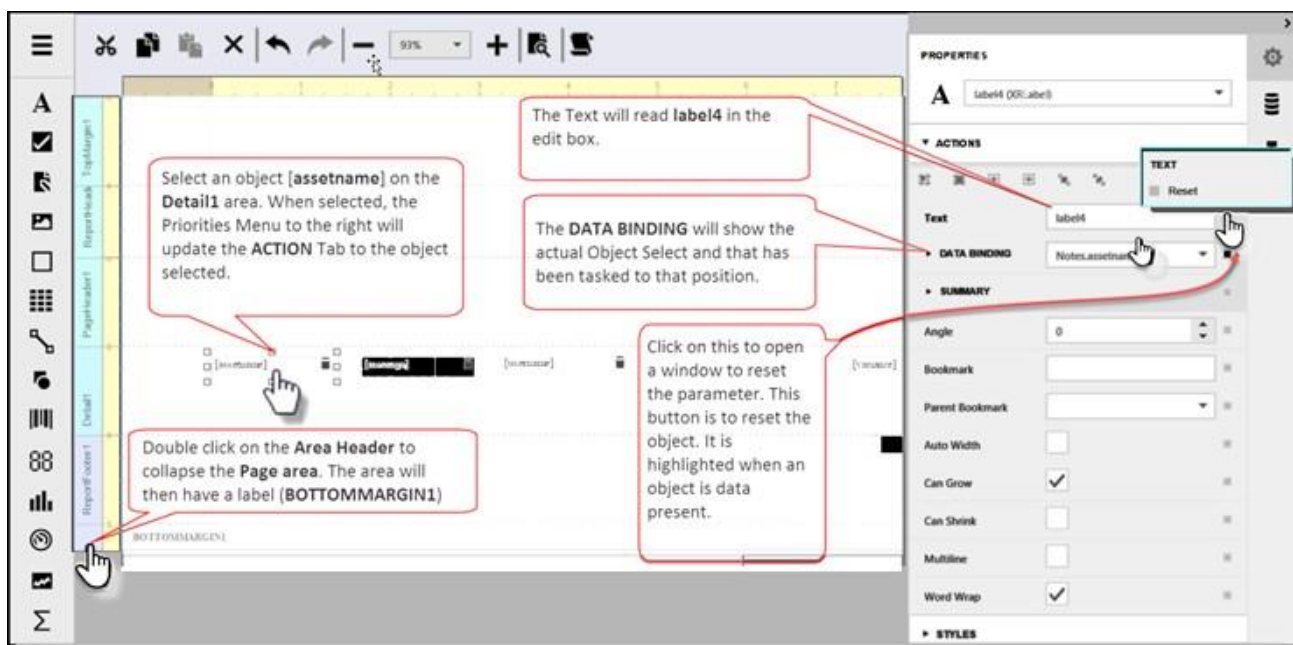
## Properties 3.6

The Properties are, **Actions, Styles, Appearance, Behavior, Data, Design, Navigation, Layout and Page Settings**. Each of these can open to reveal many different options depending upon what object parameter is chosen. In other words, there are different options for different types of parameters. Not all parameters use all the same Priority Parameters.

### ACTIONS

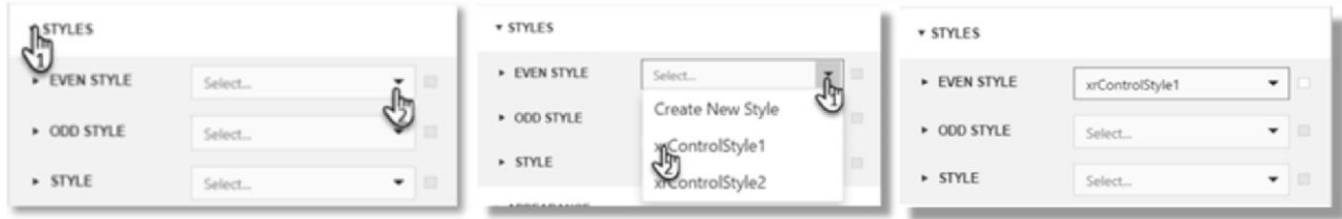


Select an Object on the Editor Board (example below: [assetname]). Once the object is selected, the **Properties** Menu will update to include the data, setup and information on the selected object. On the Properties menu you can change, configure, and view the setup information for that item. Areas of the Report Editor Board can be collapse to hide or temporarily remove from view until restored. Simply *double Click* on the Header of the area you would like to collapse. *Double Click* again to restore the collapsed area back to open. All the data pertaining to the object selected will be in the Properties Menu area. The ACTION Menu has several configuration and data that can be inputted based upon needs. To the right of every parameter is a small button. When this button is highlighted (light or darkened), that shows that there is data for this parameter and is in use. You can *Click* it and it will reveal a dialog box that will offer you a choice to Reset the parameter. If the button is not highlighted, you may input data to configure the object selected.



## STYLES

Styles controls the formatting of the selected object. To start formatting, double **Click** the **Styles** drop down. There it will offer you a few choices. You can Create a new style by selecting the **Create New Style** tab or select the `xrControlStyle1`. If you selected the Create New Style, then it will initially name it `xrControlStyle2`. Either way, they both can be renamed easily as needed. Now that it is selected, you can go through each item and customize it to your needs. In this example, we selected `xrControlStyle1`. This will read in the **EVEN STYLE** box. To do this, **Click** on the **EVEN (ODD or STYLE) STYLE** drop down to open the **STYLE** Configuration menu.



In the **Name** box you can personalize the object by naming it, otherwise it will default to the system name `xrControlStyle1`. **Click** on the **FONT** drop down to reveal the editing menu for **Font Name**, **Size** and **Unit**. It also has a tab for formatting using **Bold**, **Italic**, **Underline** and **Strikethrough**. **PADDING** controls how much space you would have around the object selected. **Click** on the drop down to reveal the setting for the objects border. **Color Design** of the object is controlled by the next group of parameters. You can choose the colors of the Background, Foreground, and the border. You can also choose the style (line, slash, dotted) of border you need, with the width at your control. All these configuration can be done for the **ODD STYLE** and **STYLES**. Other types of objects will have similar configuration and different ones.

Select a Name for this parameter or it will default to `xrControlStyle1`.

Double click on the **STYLES** drop down to reveal the configuration menu for **STYLES**.

This controls the alignment of the object in the editing and preview as displayed.

Select a Name for this parameter or it will default to `xrControlStyle1`.

**FONT** configuration options:

- Font Name: Times New Roman
- Size: 9
- Unit: Point

## APPEARANCE

### Appearance Configuration Tab



Appearance controls the formatting of the selected object. To start formatting, double **Click** the Appearance drop down. There it will offer you a few choices to add to the appearance of the object selected. The choices are **Background Color, Border Color, Border Dash Style, Border Width, Foreground Color, and Text Alignment**. The **APPEARANCE** tab also contains Sub Menu Tabs for **FONT, PADDING, and FORMATTING RULES**.

Once an object is selected, you can go through each Tab in the Appearance Menu and customize the appearance to your needs.

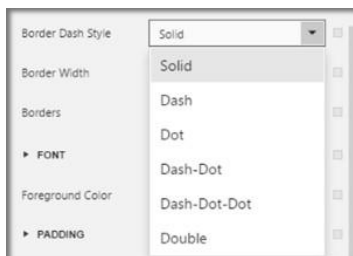
#### Background and Foreground Color

The first tab is the Background Color. **Click** on the drop down, to open a color configuration window. In this window. First select the **Vertical Color selector** to choose the color you would like to create. Now, move the **Color Target Reticle** to the Hue you desire. Next, use the **Alpha slider** to set the opacity of the color of the object selected.



You can also manually input the color coding the **R, G, and B** if you have a specific color to match. Alpha can be set this way as well. Once the color is correctly configured, you can **Click OK** to set the Background color to the object selected.

#### Border Color, Border Dash Style and Border Width



The Border Color Tab works the same as the Background Tab above it. Simply configure the color you would like the border to be.

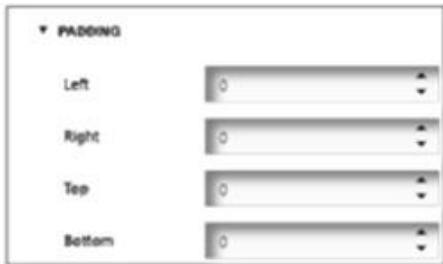
The Border Dash Style is used by **Clicking** on the drop down to reveal the choices of several types of borders to choose from.



The Border Width is set by either **Clicking** up or down on the Border Width Tab. **Click** up to increase the width or down to decrease the width.

## FONT

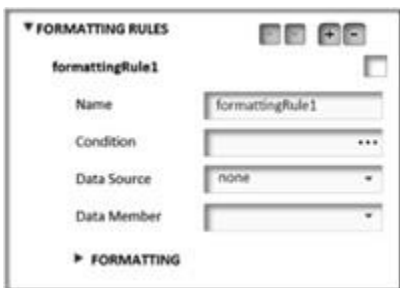
**Click** on the **FONT** drop down to reveal the editing menu for Font Name, Size and Unit. It also has a tab for formatting using Bold, Italic, Underline and Strikethrough.



### PADDING

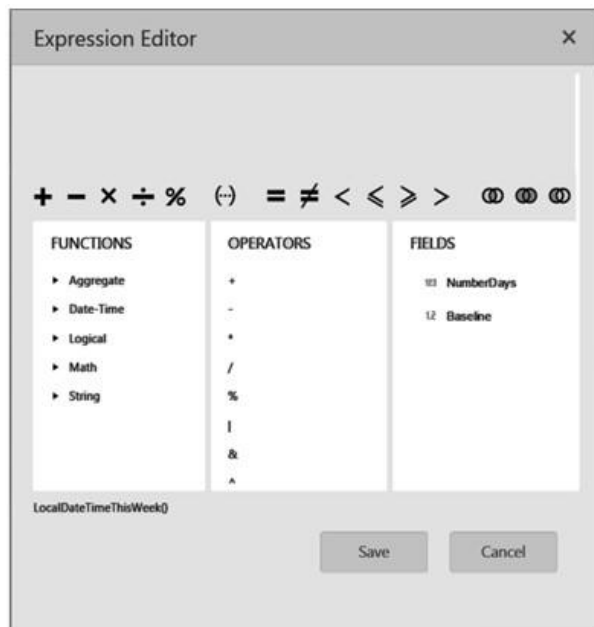
This feature controls how much space you would have around the object selected. **Click** on the drop down to reveal the setting for the objects border.

## FORMATTING RULES



Formatting rules are used in conjunction with an object to change the output data of the object selected to increase or decrease the detail of the output data. You can type the expression manually or select functions, operators and operands using editor controls. Note that the

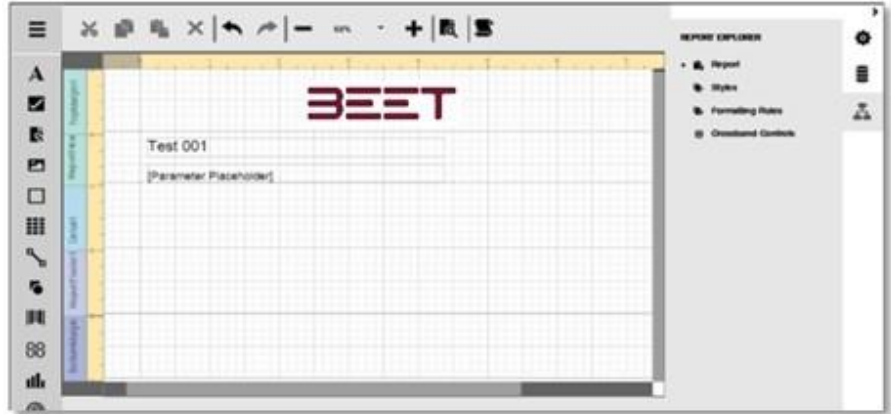
Expression Editor supports numerous standard functions, allowing you to easily perform different **string**, **date-time**, **logical**, **aggregate**, and **math** operations over data.



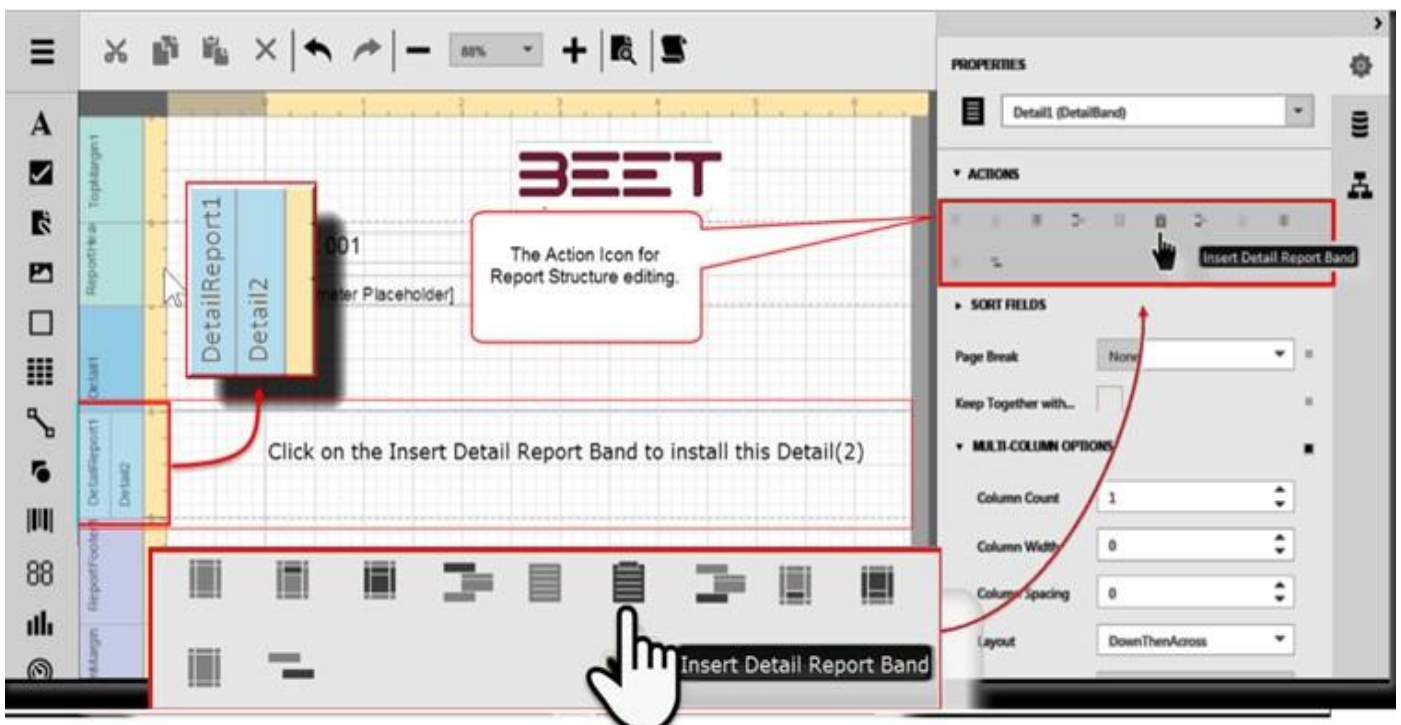
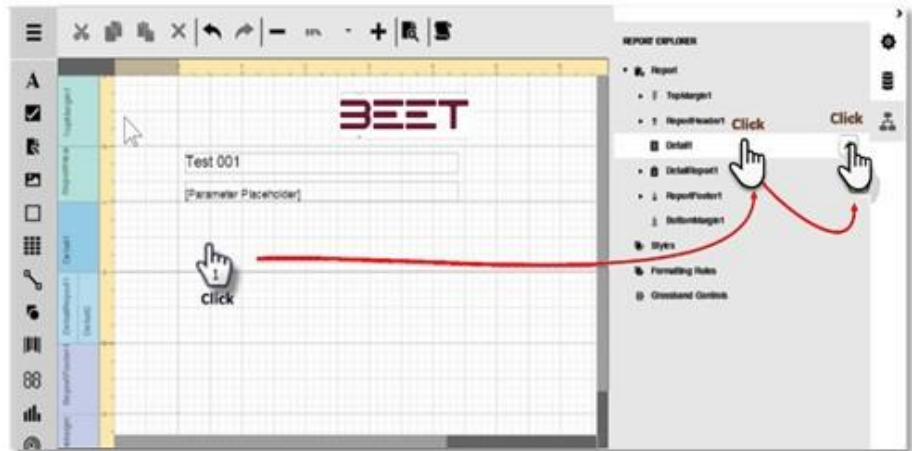
## Report Explorer 3.6

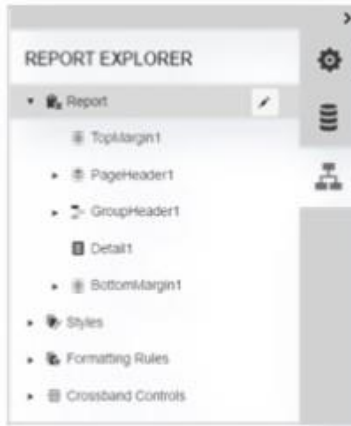
The Report Explorer is a tool that can allow you to view the data, character and information of the objects on the screen.

The Editing Board is separated into several different areas representing an area of a structured document report. From top to bottom from a default view, it starts with the Top Margin (1), Report Header (1), Detail (1), Report Footer (1), and Bottom Margin (1).

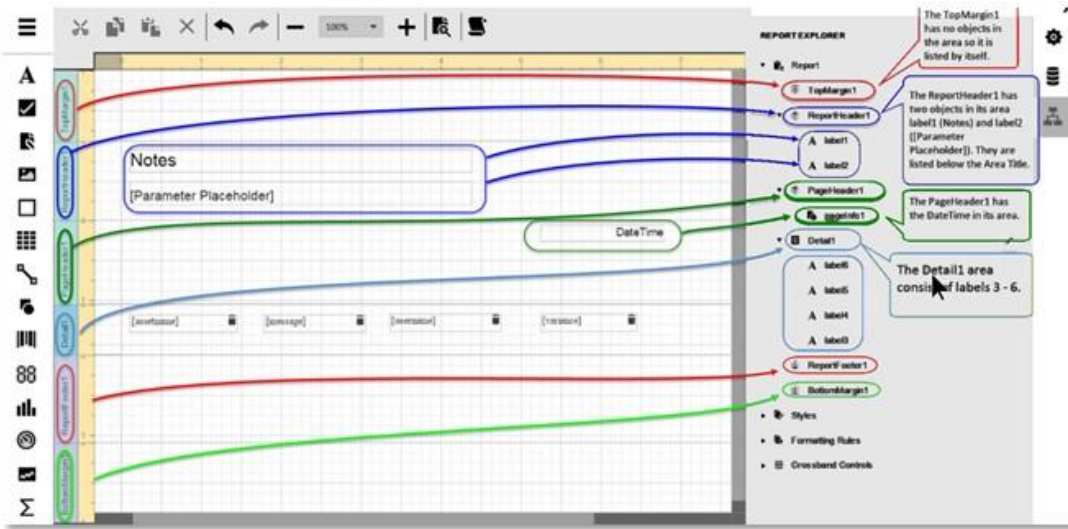


Some of these can be duplicated and added to the table for additional content if needed. For example, if you wanted a second Detail area, you can add it by **Clicking** on the Detail (1) area of the Editor board, then go over to the Report Explorer on the right menu and **Click** on Detail (1). When you **Click** on it, a pencil icon will appear. **Click** on the pencil icon and this will change the Report Explorer, to the Properties Menu. Under the Actions Tab, hover over the icons on the upper part of the menu until you reach the Detail Report Band. This will install another Detail Band below Detail (1) band. The same can be done for the other areas on the Report Editor Board.

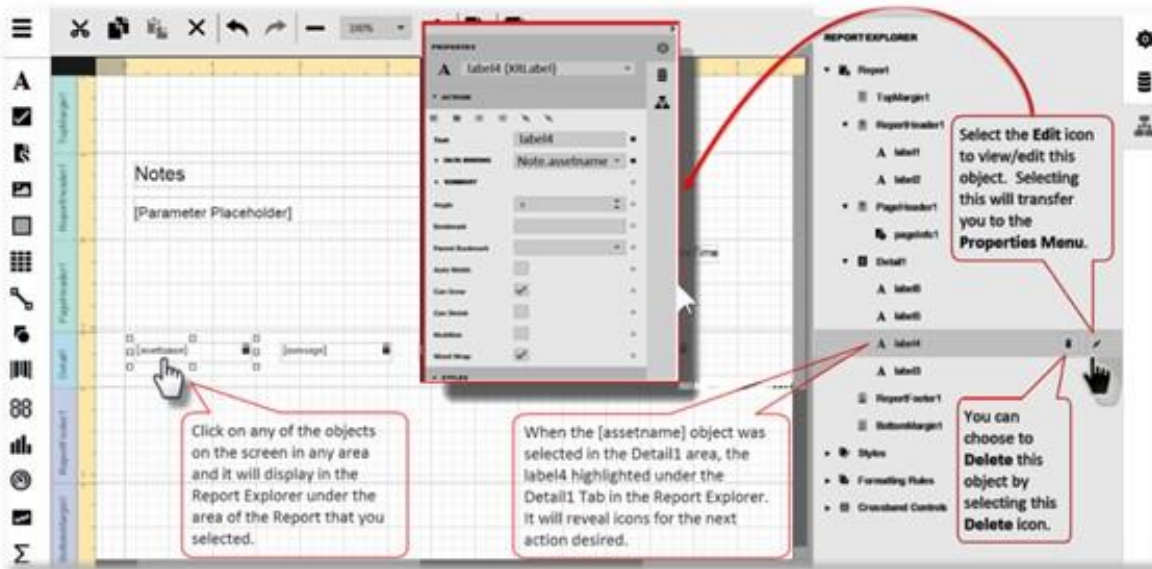




While in the Report Explorer, you can view the data, character setup and status of the objects on the Editing board. Simply Click on an object on the screen and right side menu will update to the object you've select. When an object is selected, the Report section if closed, will open and display the section where the object is located and the actual objects below it.



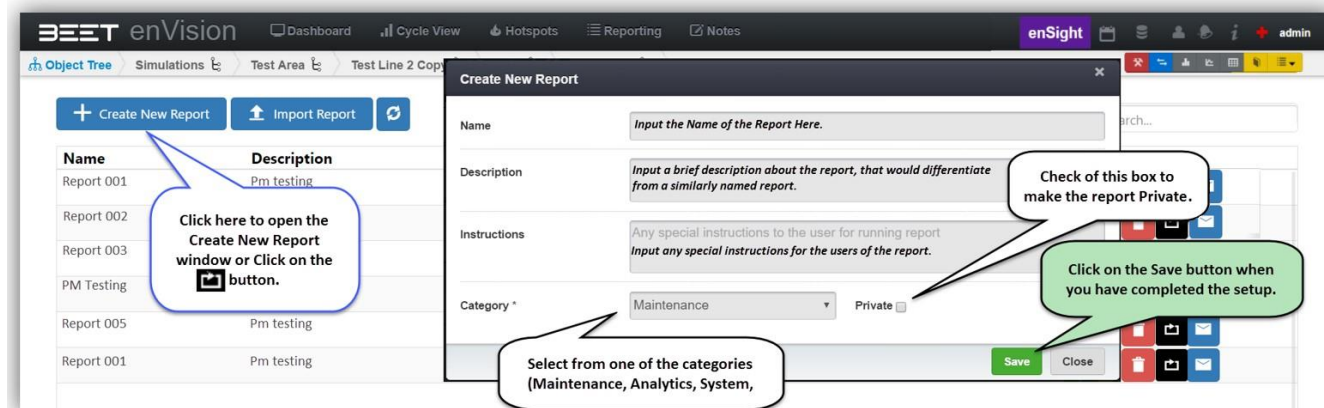
In the image below, this shows the objects and setup of the Report Editing Board. What you click on the screen will be **highlighted** on the Report Explorer menu to the right.



## Creating a New Report 3.6

**Click** on the **+Create New** tab to open the Create New Report information window. In this window, you can input the necessary information needed to create a report template. Input the Name of the report, then the Description which appears under the name of the report on the Report

List Window. Select the appropriate category for the report. Choose the orientation of the report, between Portrait or Landscape (default is Landscape).



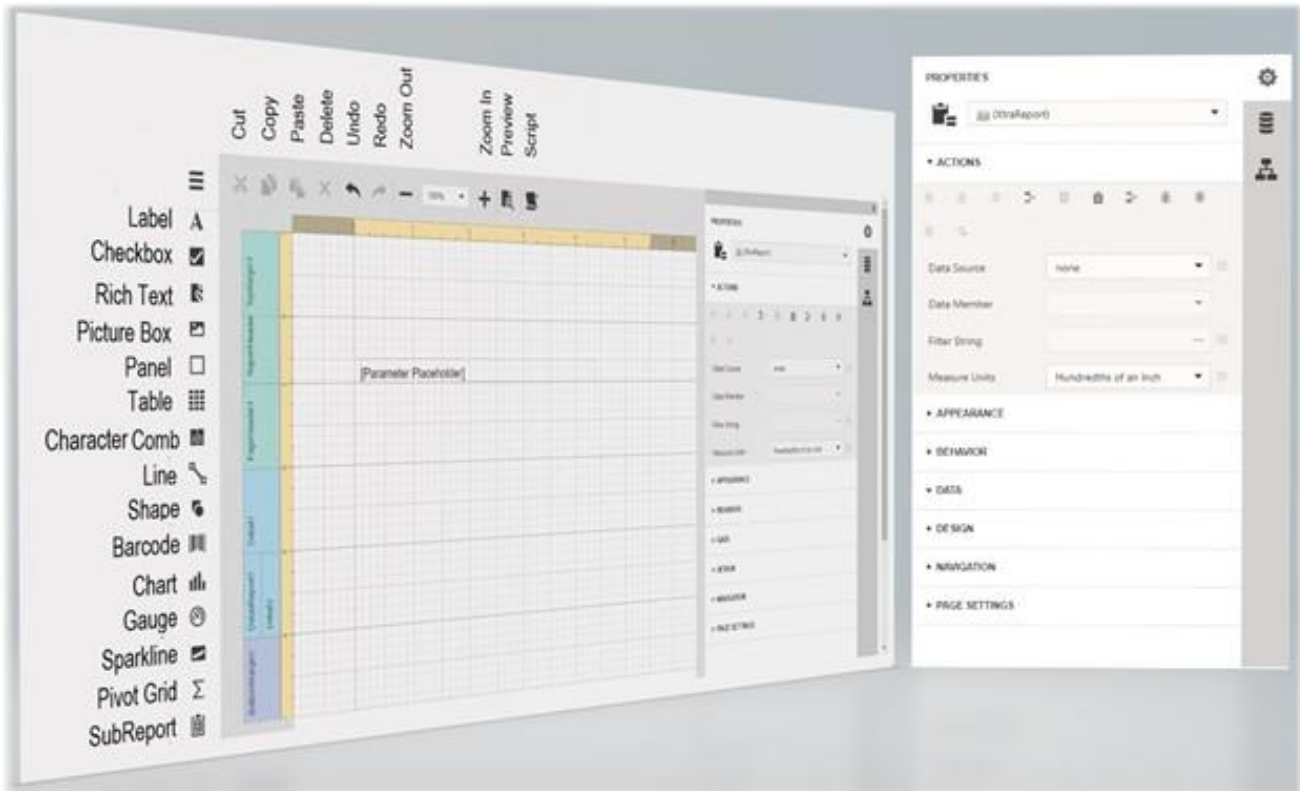
After selecting **Save** on the Create New Report information window, **Report Editor Board** window will appear. From here, you can setup, configure, and populate the report with the necessary information that you desire.





## Report Editor Board 3.6

The Upper menu consist of typical commands common to a windows program. On the left side is the types of objects to install on the **Report Editor board**. Once an object is placed on the **Report Editor board**, they can be configured by using the menu on the right-hand side of the window. In default, the configuration menu pane is open. If not, **click** on the arrow in the top left hand corner to reveal the configuration menu pane.



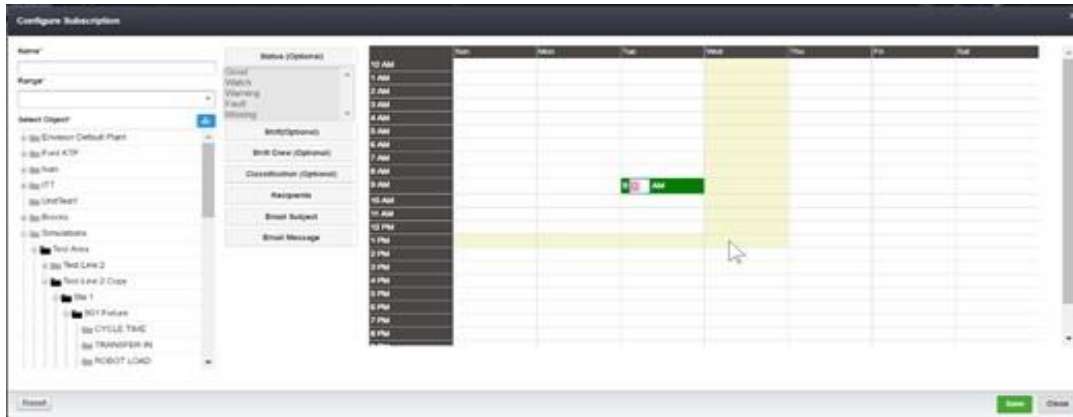
# Subscribe (Reporting 3.6)

## Overview (Subscribe 3.6)



The Subscribe module allows a user to monitor and send notifications via, email and text messaging. The user will have to specify the parameters in which need to be configured to work properly.

The Subscribe button opens a window to setup and configures a way to send reports via email automatically. Simply fill out all the fields and select the time you would like to receive the report. Once set, it will send a report of the time that was selected. The report you receive is for the time you specified.



Though Notification and Subscription are very similar in some ways, there are many differences in the use and functions of these features. Below is a table of comparisons between Dashboard/Report Subscriptions and Conditional Notifications.

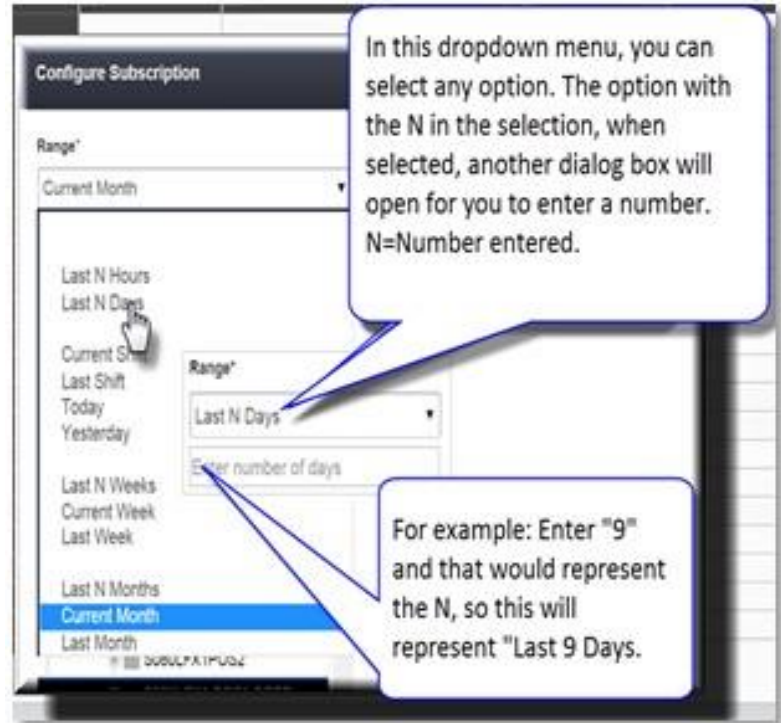
enVision 3.6 - Comparison Chart		
Feature	Dashboard/Report Subscription	Conditional Notification
Trigger Point	Time based Schedule	When condition based on measure and time window is satisfied. Available measures are: Overcycle - duration in mins or no. of occurrences Blocked State - duration in mins or no. of occurrences Starved State - duration in mins or no. of occurrences Faulted State - duration in mins or no. of occurrences Available Time Windows are: Hour, Shift, Day, 7 Days, and 30 Days
Message Content	Dashboard/Report as attachment, E-mail body and Direct Web Link	Simple text, or dashboard/report when linked to a subscription
Attachments	Dashboard/Report PDF, XLS	Dashboard/Report PDF, XLS only if linked to a subscription
Recipient(s)	Single or multiple e-mail addresses	Single e-mail or phone no. for texts. Multiple e-mails only if attached to subscription
Limit on Number of Messages	Controlled by subscription schedule - no upper limit	Can be adjusted, but usually 25 per day per notification
Object Level	Works at any level	Asset Level Only

## Configuring Subscription (Subscribe 3.6)



Select the drop-down menu in the **Range** dialog box. It will reveal a range of choices. The choices with the letter “N”, when chosen, will open a dialog box under that will allow you to enter a number that represents the “N”. This allows you to specify an exact amount as opposed to Hour, Day, Week, or Month. In the example, 9 is selected, so the “Last N Days” will see it as the “Last 9 Days”.

N=The Number Entered in the Range\* edit box (Enter number of days)



Next, below the Range field, navigate the **Object Tree** to go down to the object desired. You can also use the filters to the right of the Tree to sort and/or filter the object selection.

**Status** - Select the status’s that you would like to view.

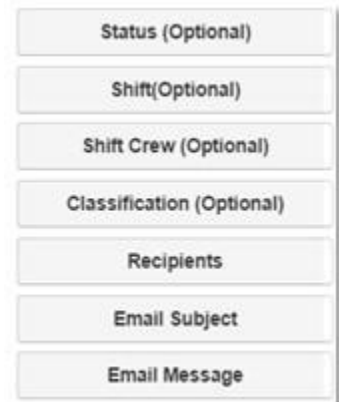
**Shift** – Select the shift you would like to view.

**Shift Crew** – Choose a crew if this field is populated by the users.

**Classification** – Choose which classification to view.

**Recipients** – Enter an email address of the Recipients that you want to send the Dashboard report to.

**Email Subject** – Enter a Subject to appear in



the subject line of an Email.

**Email Message** – Enter a message you would like to send as in email along with the report.

## Setting up the Subscription (Subscribe 3.6)

### Setting up the Subscriptions

Select the day and hour when you would like to receive the report. **Double-Click** on the cell and it will reveal a timestamp highlighted in green. The time stamps are hourly but can be edited to make and send a report at a specific time. After selecting a time, enter the specific minutes you would like to select. When finished, check over all fields, then select the **Save** button. From this example, the recipient of this subscription will receive reports on Monday at 5:00 a.m., Tuesday at 6:00 a.m., and Wednesday at 7:15 a.m.

Double click on a cell to open a timestamp for when you want to receive a report.

After the timestamp appears, you can alter the minutes are to the exact minute you would like the report to capture.

Once every parameter is configured, click **Save**.

7:15 AM

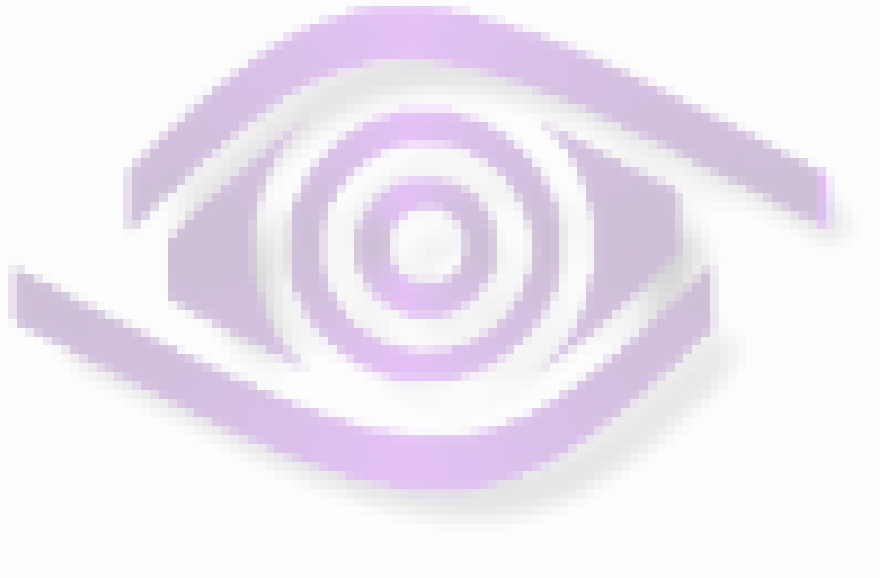
Save Close

## enSight 3.6



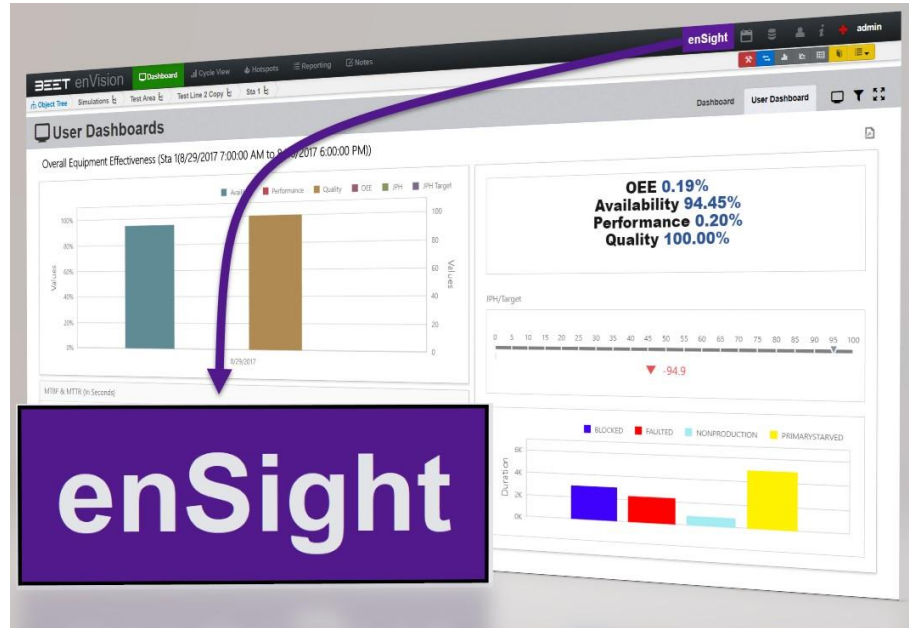
enSight is a simple to use web base application that displays a graphical representation of fault. enSight shows informational and diagnostic messages displayed in real time.

- [Getting Started](#)
- [Opening enSight](#)
- [Navigating enSight](#)
- [enSight Dashboard](#)
- [Dashboard](#)
- [Filter Date/Shift Range Tool](#)
- [Dashboard Waterfall Tab](#)
- [Dashboard OEE Tab](#)
- [Dashboard Summary Tab](#)
- [Realtime \(Current Shift\)\\*](#)
- [Layout](#)
- [Timeline Tab](#)
- [Messages](#)
- [Cyclelength](#)
- [Realtime Layout](#)
- [Realtime Timeline Tab](#)
- [Realtime Messages](#)
- [Realtime Cyclelength Tab](#)
- [Production History](#)
- [Adding Messages to PLC](#)



## Getting Started

- [Opening enSight](#)
- [Navigating enSight](#)

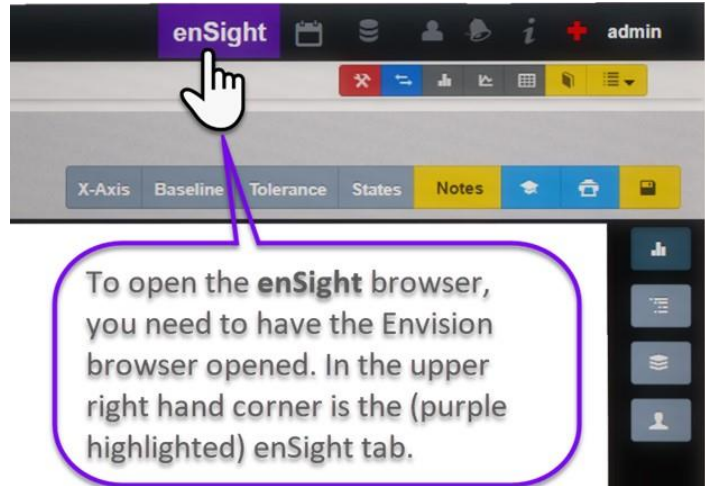


## Opening enSight

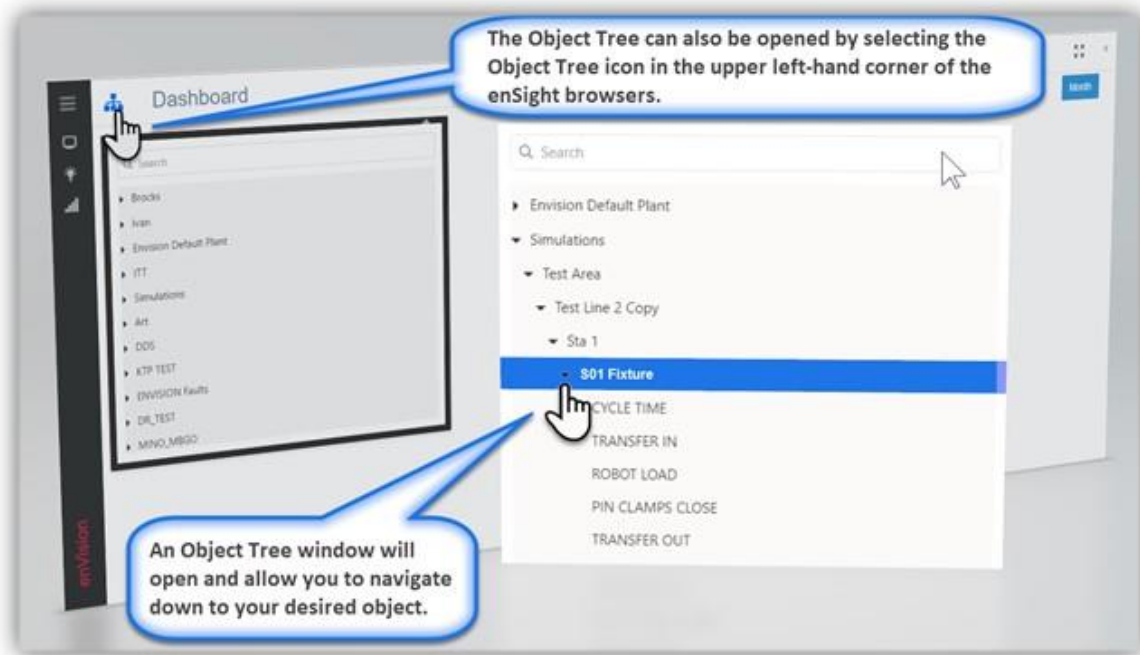
To open the **enSight** browser, you need to have the enVision browser opened. In the upper right hand corner is the (purple highlighted) enSight tab.

Selecting the **enSight** tab will open the new **enSight** browser. From there, a loading icon will appear. This may take a few moments to load the browser.

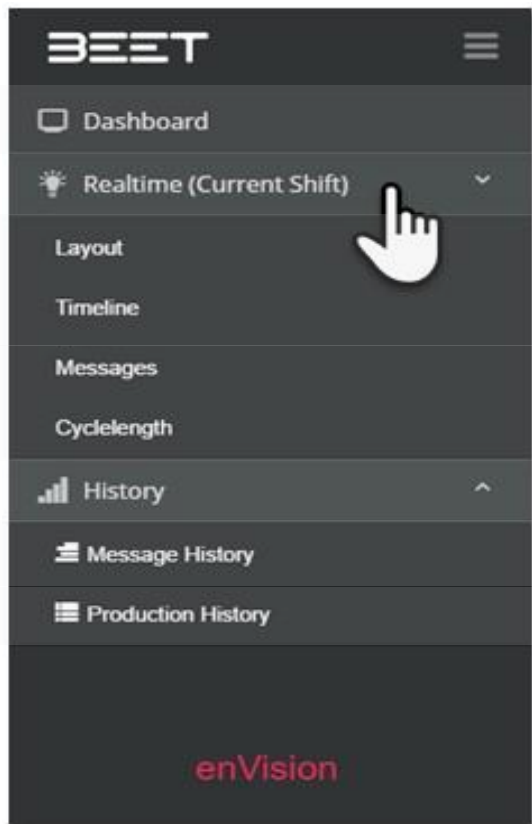
Once the enSight browser is loaded, a Object Tree window will appear on the left hand side of the screen. From there, you may navigate down to the object you wish to view. You can also open the Object Tree by selecting the (Blue) Object Tree icon in the upper left-hand corner of the browser window. Navigate to your selection. This Object Tree works the same as the Object Tree in the enVision browser.



(Loading)



## Navigating enSight



In the enSight browser, the Main menu is on the left-hand side. Click on the top icon in the black side bar and it will open the menu. Within the enSight browser is the **Dashboard**, **Realtime (Current Shift)**, and **History** tabs. Each of these have a sub menu below each tab except for the Dashboard tab.

In the enSight browser, there is a Main menu on the left-hand side. Click on the top icon in the black side bar and it will open the menu. Within the enSight browser is the dashboard, real-time history, Admin and Envision tabs. Each of these have a sub menu below each

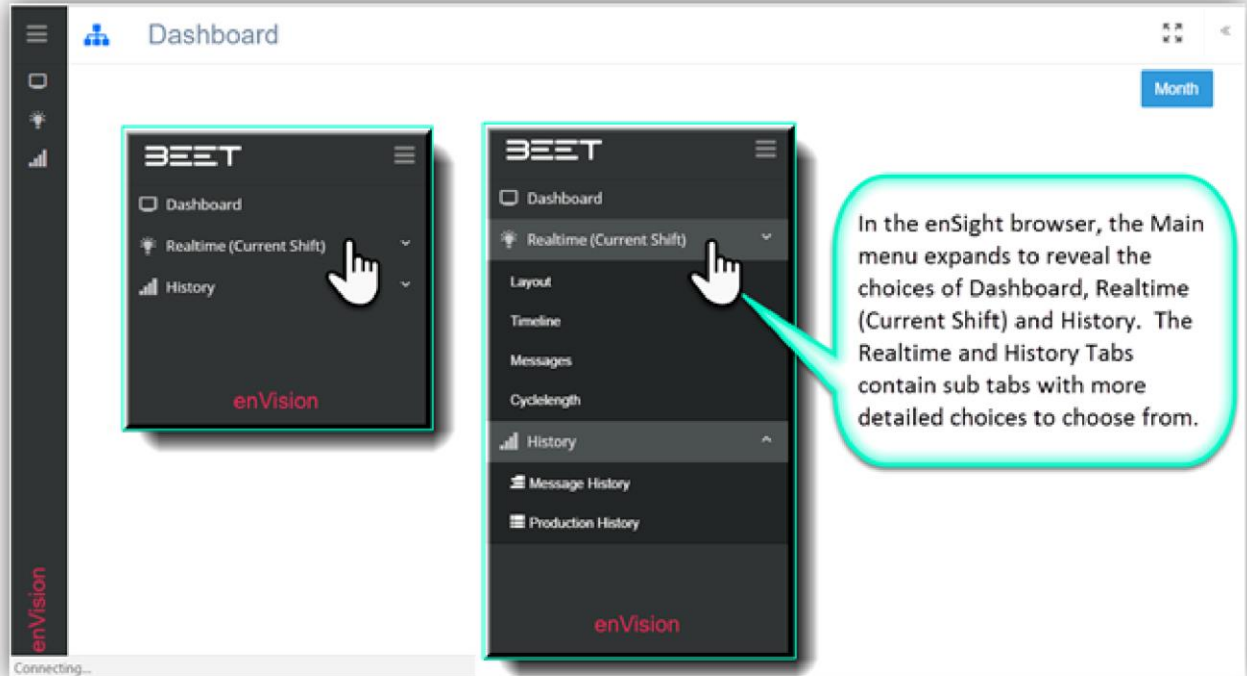
The side menu will expand to reveal the main choices including Dashboard, Realtime (Current Shift) and History.



## enSight Side Main Menu

### Main Menu

In the **enSight** browser, the Main menu expands to reveal the choices of **Dashboard**, **Realtime (Current Shift)** and **History**. The Realtime (Current Shift) and History Tabs contain sub tabs with more detailed choices to choose from.



### Dashboard

Dashboard is the opening window for the Insight browser and the Main Home page for the enSight browser.

### Realtime (Current Shift)

Below the dashboard is the real time for current shift it contains the **Layout**, **Timeline**, **Messages**, and **Cycle length**.

### History

In the history tab, therein lies the **Message History** and the **Production History**.

## enSight Top Menu

### Top Menu

The Top Menu is located along top of the Insight browser, there are several icons. They consist of the Object Tree, Expand window, and a side menu toggle that reveals the **Live Feed**, **Preferences**, and **Admin Menus**.

**This Expand window icon opens the browser to a full screen (F11).**

**This Object Tree Icon opens the Factory window. A hierarchical representation of the Factory.**

**This icon opens the Right Side Menu. In this menu are 3 sub menus for Information, Preferences, and Admin.**

The dashboard displays the following data:

Metric	Value
Parts	819
JPH	37
MTBF	114 Minutes
MTTR	0 Minutes
Availability	97.68% (1322 / 1364 Minutes)
Performance	80.53% (77 X 819 / 1322 Minutes)
Quality	100.00% (819 / 819)
OEE	78.78%

### Object Tree Icon

The Object Tree Icon is used to open and close the Object Tree containing the Factory window. In this window you can navigate up and down the Object Tree to the object you desire.

**The Object Tree can be opened by clicking on the Object Tree Icon.**

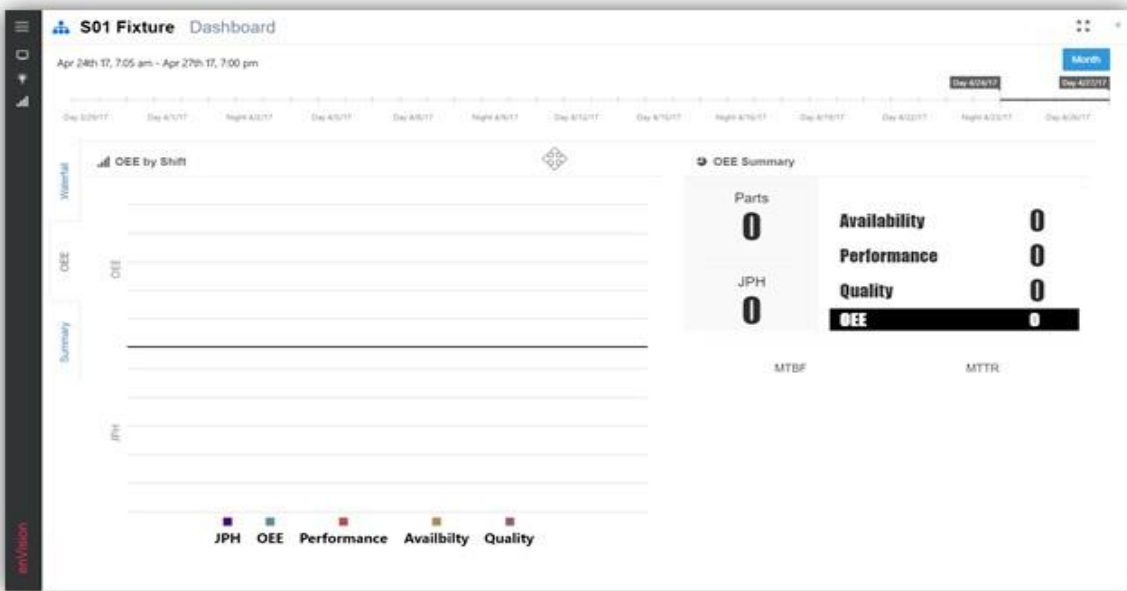
**The Object Tree will reveal and allow you to Search or Navigate down to the desired object to view.**

The Object Tree structure shown is:

- Envision Default Plant
  - Simulations
  - Test Area
    - Test Line 2 Copy
      - Sta 1
        - S01 Fixture
          - CYCLE TIME
          - TRANSFER IN
          - ROBOT LOAD
          - PIN CLAMPS CLOSE
          - TRANSFER OUT
            - R01
      - Sta 2
      - Sta 3
      - Test Line 5
      - DeviceWISE\_TEST
      - Training Master

### Expand

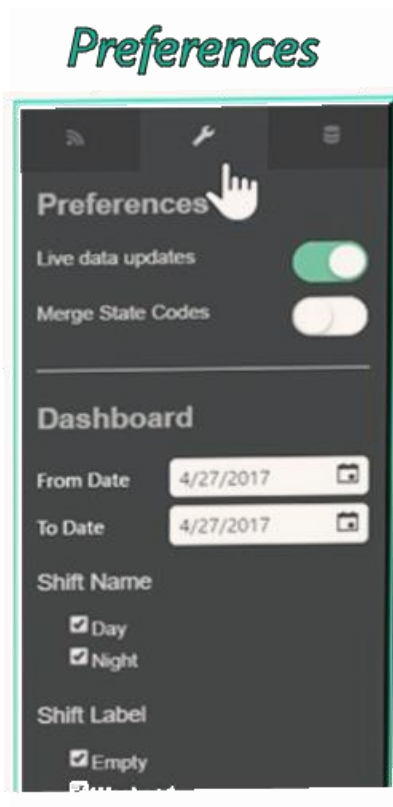
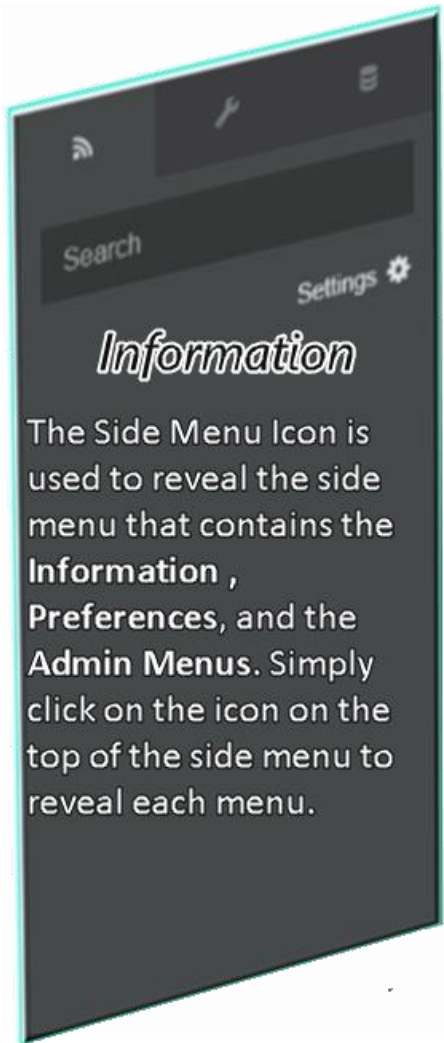
The Expand Window Icon is used to render the browser in Full Screen mode, similar to the F11 button with viewing a window. This action will display only the window, leaving the Browsers address and status bars hidden.



## Side Menu Icon

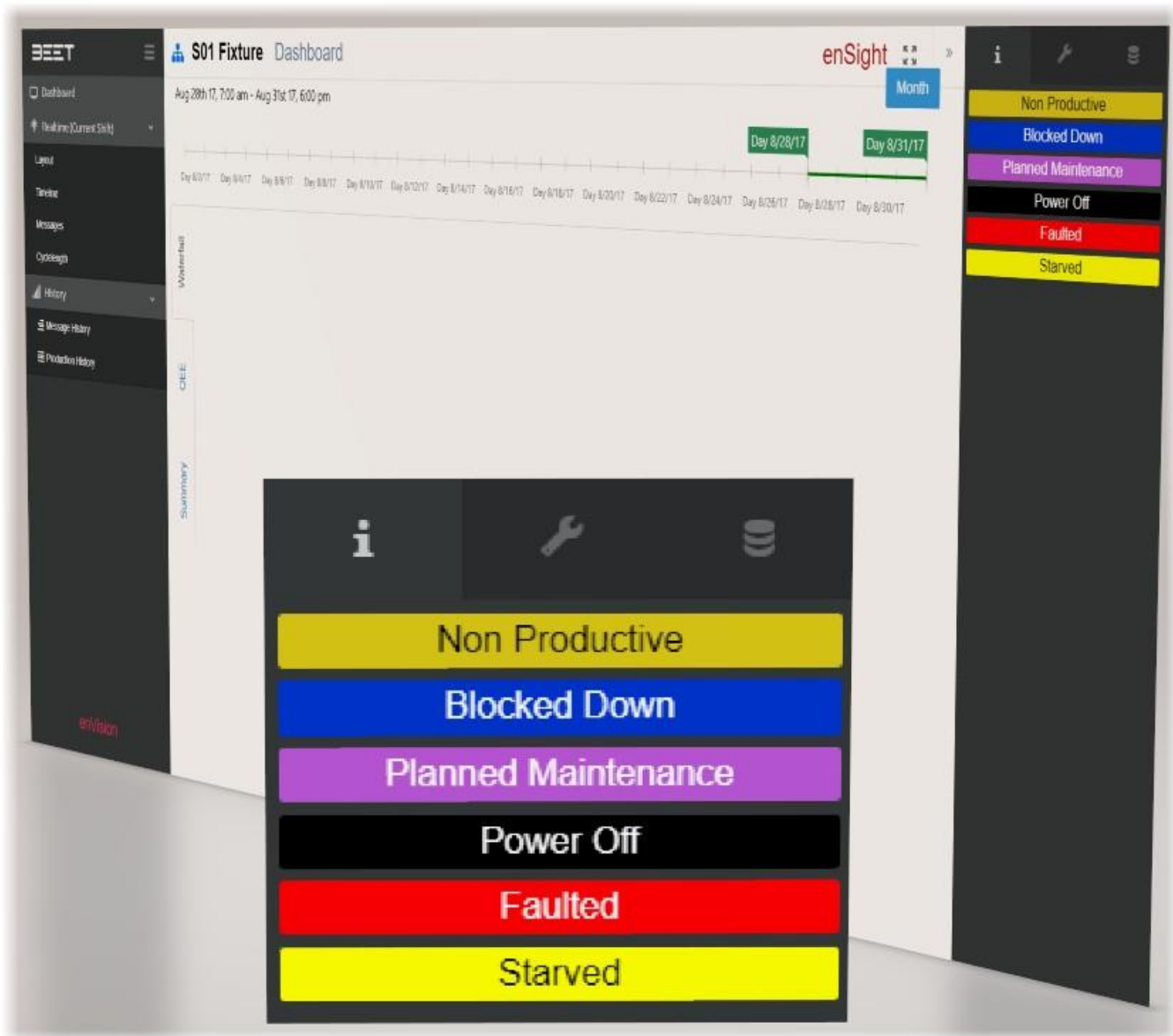
The Side Menu Icon is used to reveal the side menu that contains the **Information**, **Preferences**, and the **Admin Menus**. Simply click on the icon on the top of the side menu to reveal each menu.

- [Information](#)
- [Preferences](#)
- [Admin \(Right Sidebar Menu\)](#)



### Right Sidebar Menu

- [Information](#)
- [Preferences](#)
- [Admin \(Right Sidebar Menu\)](#)



### Information

The Information Section contains the pertinent information of the current page you are viewing.

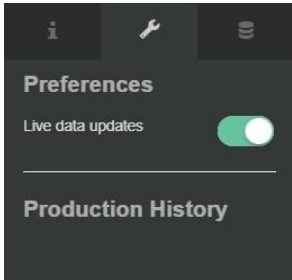
In the Realtime Layout and Timeline screen, it will display the State buttons which can be selected to toggle on and off.



## Preferences

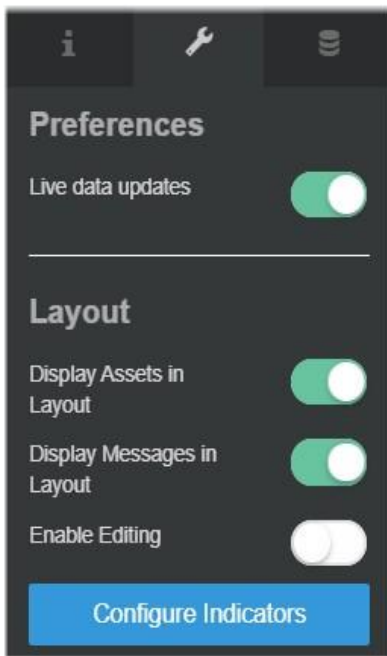
The preference menu will allow you to configure how you would like to view the data by preference and layout of the current selected views (Dashboard, Layout, Timeline, Messages, CycleLength, Message History, and Production History).

### Dashboard Preferences



Choose whether you would like to view Live data updates.

### Layout Preferences



In the Layout section, you choose to display the Assets in the layout screen. For example when selecting the Layout View, it displays the Stations in boxes. Toggling the "Display Assets in Layout" will display the Assets label directly under the Station label. If there is two or more Assets, then it will create a several boxes with the same stations but different Assets.

Messages can be displayed in the layout section by turning on the "Display Messages in Layout" Toggle.

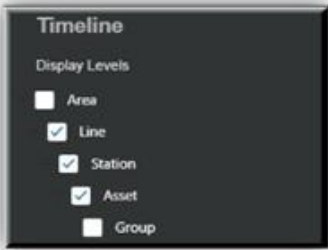
The Display Offloads Toggle will turn On or Off a smaller black box next to the outgoing arrow of the Station box on the Layout screen.

Fit to Screen will auto scale the data to fit in the display area.

The Enable editing, turns the layout into editing mode by adding an editing box where you can, resize and position the Station display boxes on the Layout screen.

The Configure Indicator button will open a new window that will allow you to configure how and what data will appear in the Station display boxes in the Layout screen.

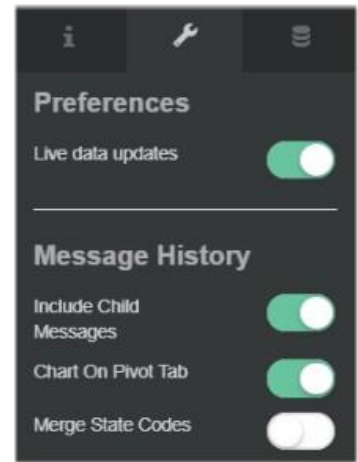
### Timeline and Messages Preferences



The Timeline Preferences option will allow you to choose the Display levels you want to appear in the Layout screen. Simply check or uncheck the levels you want to view.

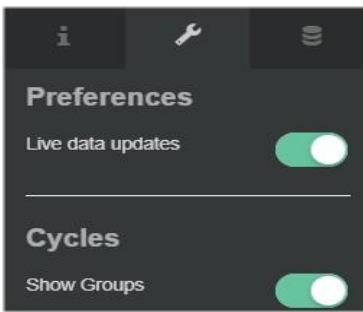
### Message History

In the Message History display, it offers the options to Include Child Messages, Timeline by Group (Message or Object), Chart on Pivot Table, and Message Color.

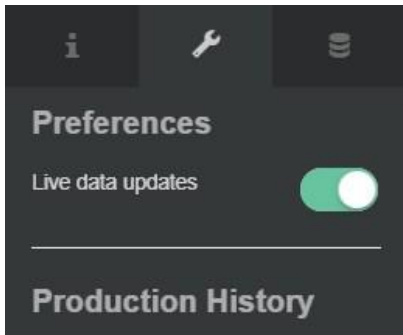


### Cyclelength Preferences

This option will toggle whether to display group level objects in the Cyclelength table.



### Production History

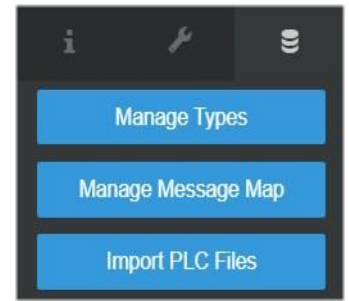




Admin (Right Sidebar Menu)

The Admin Tab contains the Manage Types and Manage Message Maps.

- [Manage Types](#)
- [Manage Message Maps](#)
- [Import PLC Files](#)



**S01 Fixture Message Map**

Multi-Update Codes | Multi-Update Object | Multi-Update Active

Pre-Filter: PLC (All) | Show In-Active Messages

Message	Code	IO Expression	PLC	Object	Active
Q	(All)	Q	(All)		(All)
brock woswow	ISTVD	111	ChinaTrainPLC_Lite	Test Area	✓
1	ISTVD	e1	DOS E1109 2	Test Area	✓
2	ISTVD	e2	DOS E1109 2	S01 Fixture	✓
Random Generated Message for 3373d06c-3051-443c-8226-cc0d35052db4_0-8	EOT_		ADMIN TEST ONLY - DO NOT DEPLOY	S01 Fixture	✓
Random Generated Message for 3373d06c-3051-443c-8226-cc0d35052db4_0-10	EOT_			S01 Fixture	✓
Random Generated Message for 3373d06c-3051-443c-8226-cc0d35052db4_0-12	EOT_		APLC_ChinaOliver	S01 Fixture	✓
sdtdf	EOT_			S01 Fixture	✓
Random Generated Message for 3373d06c-3051-443c-8226-cc0d35052db4_0-18	EOT_			S01 Fixture	✓
lbdtdfdtdf	EOT_			S01 Fixture	✓

Highlighted Row:

Random Generated Message for 3373d06c-3051-443c-8226-cc0d35052db4_0-8	EOT_			S01 Fixture	✓
---	------	--	--	-------------	---

**S01 Fixture Message History**

Priority	Code	Description	Definition	Background Color	Font Color	Live-View
2	NPROD	Non Productive	This type of event indicates that the associated equipment is not required for production due to external factors such as model part type or demand-based operation	Yellow	Black	<input checked="" type="checkbox"/>
5	MOA_	Mode Out Of Auto	This type of event drops the machine out of automatic and is not already classified as one of the above states	Blue	Black	<input type="checkbox"/>
			This type of event indicates any stoppage due to a device exceeding its defined job space.	Blue	Black	<input checked="" type="checkbox"/>
			unload operation by downstream automation in excess of the normal design time.	Grey	Black	<input type="checkbox"/>
			wait for a load operation by upstream automation. The INTERNAL STARVED state is an immediate level.	Grey	Black	<input type="checkbox"/>
			automatically stopped or paused for a quality check.	Grey	Black	<input type="checkbox"/>
			conveyor stoppage from going undetected.	Grey	Black	<input type="checkbox"/>
			or condition that does not result in equipment stoppage which requires timely maintenance	Grey	Black	<input type="checkbox"/>
			or condition that does not result in equipment stoppage which requires timely maintenance	Grey	Black	<input type="checkbox"/>

enVision

**S01 Fixture Import PLC Files**

Select File To Upload

Select File To Upload

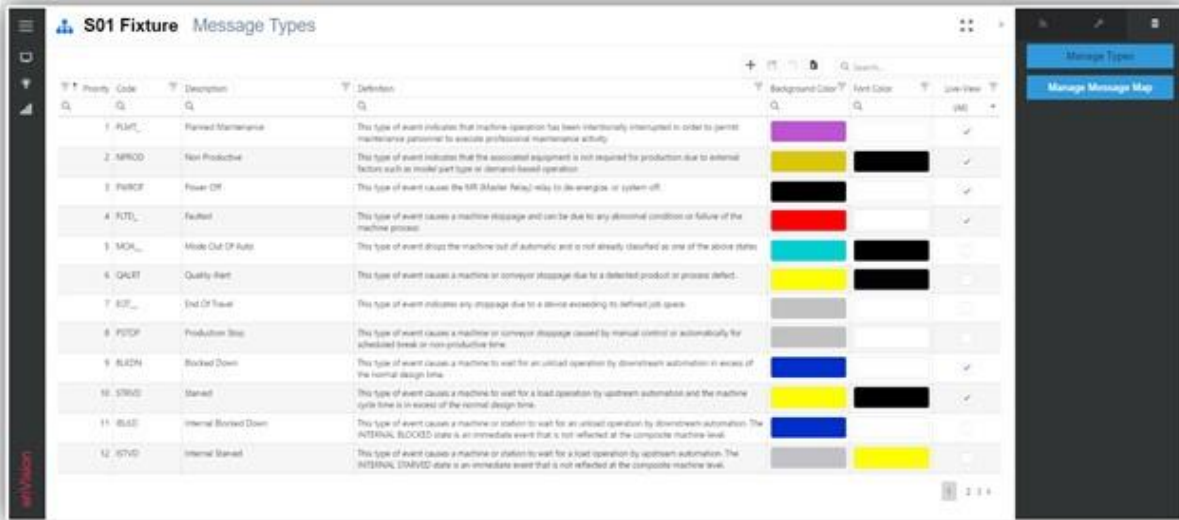
File Explorer: Network > fs > Data > Projects > PLC FILES

Name	Date modified	Type	Size
ENVISION.LSX	5/3/2016 3:48 PM	LSX File	8,119 KB
ENVISION_SeqOfOp_LINE RB1	5/3/2016 10:44 AM	Microsoft Excel M...	238 KB
ENVISION_SeqOfOp_LINE RB1 .json	5/17/2016 10:58 A...	JSON File	396 KB

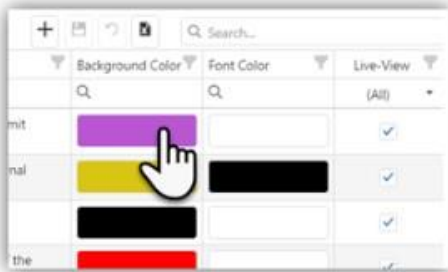
enVision

### Manage Types

In the **Manage Types** module, you can setup and configure the messages that will be displayed in the **enSight** browser. The user can configure the **Priority, Code, Description, Definition, Background, Font Colors**, and whether it will appear in **Live-View**.

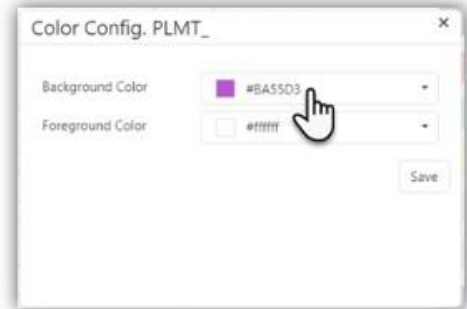


Simply click on a cell and a **editing highlight window** will open for you to edit the contents. **Background and Font Color**

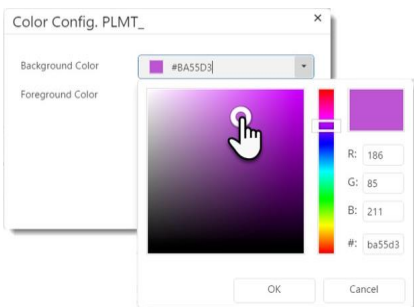


Priority	Code	Description	Definition
1	PLMT_	Planned Maintenance	This type of event indicates that machine maintenance personnel to execute profes
2	NPROD	Non Productive	This type of event indicates that the assoc factors such as model part type or demar
3	POWER	Power Off	This type of event causes the MR (Master

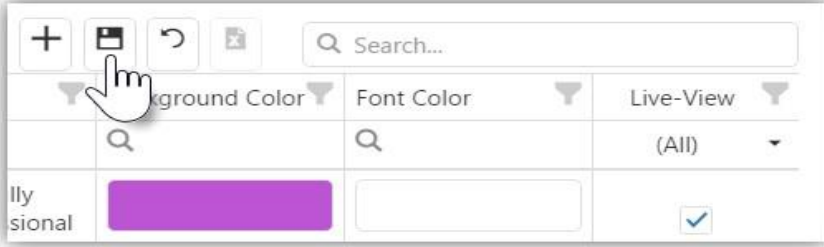
The Background and Font Color control are similar when you want to add or change a color. Simply select the color sample on the Message Type table.



A **Color Config. window** will reveal. Click on the **Background** or **Foreground** pull down box and a color pallet will open above it. Use the **reticle** to choose the color you would desire. Use the slider or **RGB** edit boxes to change the coloring. Click **OK** to set the color. Any changes made require you to save.



After the changes are made, select the **Save** Icon to save your changes.



*Live-View*

**Check off** the **selection box** if you want these parameters to appear in the **Live-View Module**.



### Manage Message Maps

The Manage Message Maps module allows you to control and configure the messages in the PLC for the Object using the IO Expression.

The Table consist of multiple columns including Message, Code, IO Expression, PLC, Object and Active (Status).

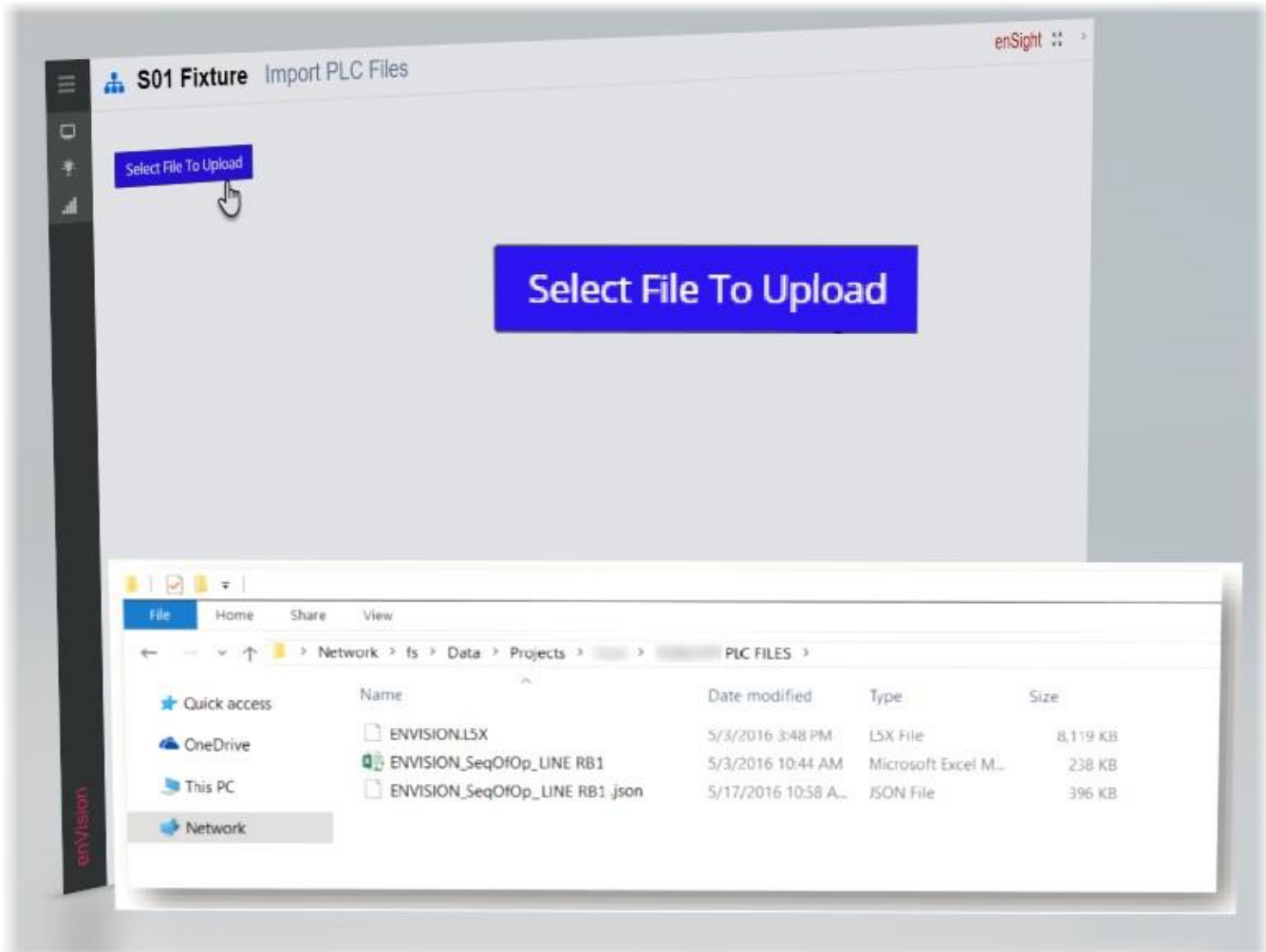
Message	Code	IO Expression	PLC	Object	Active
Drive_IH_Center_Torg_Min010 - SPARE	IAB	Drive_IH_Center_Torg_M...	ACACACB0B0D	Test Line 2 Copy...	<input type="checkbox"/>
Drive_IH_Center_Torg_Min011 - SPARE	IAB	Drive_IH_Center_Torg_M...	ACACACB0B0D	Test Line 2 Copy...	<input type="checkbox"/>
Drive_IH_Center_Torg_Min012 - SPARE	IAB	Drive_IH_Center_Torg_M...	ACACACB0B0D	Test Line 2 Copy...	<input type="checkbox"/>
Drive_IH_Center_Torg_Min013 - SPARE	IAB	Drive_IH_Center_Torg_M...	ACACACB0B0D	Test Line 2 Copy: Joes Crab Shack	<input checked="" type="checkbox"/>
Drive_IH_Center_Torg_Min014 - SPARE	IAB	Drive_IH_Center_Torg_M...	ACACACB0B0D	Test Line 2 Copy...	<input type="checkbox"/>
Drive_IH_Center_Torg_Min015 - SPARE	IAB	Drive_IH_Center_Torg_M...	ACACACB0B0D	Test Line 2 Copy...	<input type="checkbox"/>
Drive_IH_Center_Torg_Min016 - SPARE	IAB	Drive_IH_Center_Torg_M...	ACACACB0B0D	Test Line 2 Copy...	<input type="checkbox"/>
Drive_IH_Center_Torg_Min017 - SPARE	IAB	Drive_IH_Center_Torg_M...	ACACACB0B0D	Test Line 2 Copy: Joes Crab Shack	<input checked="" type="checkbox"/>
Drive_IH_Center_Torg_Min018 - SPARE	IAB	Drive_IH_Center_Torg_M...	ACACACB0B0D	Test Line 2 Copy: Joes Crab Shack	<input checked="" type="checkbox"/>
Drive_IH_Center_Torg_Min019 - SPARE	IAB	Drive_IH_Center_Torg_M...	ACACACB0B0D	Test Line 2 Copy: Joes Crab Shack	<input checked="" type="checkbox"/>
Drive_IH_Center_Torg_Min0110 - SPARE	IAB	Drive_IH_Center_Torg_M...	ACACACB0B0D	Test Line 2 Copy: Joes Crab Shack	<input checked="" type="checkbox"/>
Drive_IH_Center_Torg_Min0111 - SPARE	IAB	Drive_IH_Center_Torg_M...	ACACACB0B0D	Test Line 2 Copy: Joes Crab Shack	<input checked="" type="checkbox"/>

Message	Code	IO Expression	PLC	Object	Active
Drive_IH_Center_Torg_Min010 - SPARE	IAB	Drive_IH_Center_Torg_M...	IAB	Test Line 2 Copy...	<input type="checkbox"/>
Drive_IH_Center_Torg_Min011 - SPARE	IAB	Drive_IH_Center_Torg_M...	A NEW DEVICE that is now changed	Test Line 2 Copy...	<input type="checkbox"/>
Drive_IH_Center_Torg_Min012 - SPARE	MCA_	Drive_IH_Center_Torg_M...	AAA BasekBall	Test Line 2 Copy...	<input type="checkbox"/>
Drive_IH_Center_Torg_Min013 - SPARE	EOT_	Drive_IH_Center_Torg_M...	ACACACB0B0D	Test Line 2 Copy...	<input type="checkbox"/>
Drive_IH_Center_Torg_Min014 - SPARE	BLKDN	Drive_IH_Center_Torg_M...	ADMIN TEST ONLY - DO NOT DEPLOY	Test Line 2 Copy...	<input type="checkbox"/>
Drive_IH_Center_Torg_Min015 - SPARE	STVD	Drive_IH_Center_Torg_M...	AGENT PLC TEST	Test Line 2 Copy...	<input type="checkbox"/>
Drive_IH_Center_Torg_Min016 - SPARE	OUFLT	Drive_IH_Center_Torg_M...	APLC_OtherOliver	Test Line 2 Copy: Joes Crab Shack	<input checked="" type="checkbox"/>
Drive_IH_Center_Torg_Min017 - SPARE	SFTINT	Drive_IH_Center_Torg_M...	China/IsarPLC_Lite	Test Line 2 Copy...	<input type="checkbox"/>
Drive_IH_Center_Torg_Min018 - SPARE	MAINT	Drive_IH_Center_Torg_M...	Ch Loop 1 Zone 3 ALL	Test Line 2 Copy...	<input type="checkbox"/>
Drive_IH_Center_Torg_Min019 - SPARE	SALRT	Drive_IH_Center_Torg_M...	Ch Loop 1 Zone 3 Sta 26	Test Line 2 Copy...	<input type="checkbox"/>
Drive_IH_Center_Torg_Min020 - SPARE	DEGRD	Drive_IH_Center_Torg_M...	Ch Loop 1 Zone 3 Sta 27	Test Line 2 Copy...	<input type="checkbox"/>
Drive_IH_Center_Torg_Min021 - SPARE	INCYC	Drive_IH_Center_Torg_M...	Ch Loop 1 Zone 3 Sta 31	Test Line 2 Copy...	<input type="checkbox"/>
Drive_IH_Center_Torg_Min022 - SPARE	IDLE	Drive_IH_Center_Torg_M...	DD Assembly Area Sim_4	Test Line 2 Copy...	<input type="checkbox"/>
Drive_IH_Center_Torg_Min023 - SPARE	PVONL	Drive_IH_Center_Torg_M...	DDS E1189 2	Test Line 2 Copy...	<input type="checkbox"/>
Drive_IH_Center_Torg_Min024 - SPARE	PLMT_	Drive_IH_Center_Torg_M...	DDS E1189 3	Test Line 2 Copy...	<input type="checkbox"/>
Drive_IH_Center_Torg_Min025 - SPARE	PWROP	Drive_IH_Center_Torg_M...	DDS E1189 4	Test Line 2 Copy: Joes Crab Shack	<input checked="" type="checkbox"/>
Drive_IH_Center_Torg_Min026 - SPARE	FLTD_	Drive_IH_Center_Torg_M...	DDS E1189 5	Test Line 2 Copy: Joes Crab Shack	<input checked="" type="checkbox"/>
Drive_IH_Center_Torg_Min027 - SPARE	QALRT	Drive_IH_Center_Torg_M...	DeviceWISE_TEST	Test Line 2 Copy: Joes Crab Shack	<input checked="" type="checkbox"/>
Drive_IH_Center_Torg_Min028 - SPARE	YSTOP	Drive_IH_Center_Torg_M...	ENVISIONAuto-1	Test Line 2 Copy: Joes Crab Shack	<input checked="" type="checkbox"/>
Drive_IH_Center_Torg_Min029 - SPARE	STRVD	Drive_IH_Center_Torg_M...	ENVISIONAuto-2	Test Line 2 Copy: Joes Crab Shack	<input checked="" type="checkbox"/>
Drive_IH_Center_Torg_Min030 - SPARE	BLKD	Drive_IH_Center_Torg_M...	ENVISIONAuto-3	Test Line 2 Copy: Joes Crab Shack	<input checked="" type="checkbox"/>
Drive_IH_Center_Torg_Min031 - SPARE	NORMAT	Drive_IH_Center_Torg_M...	FEILTS	Test Line 2 Copy: Joes Crab Shack	<input checked="" type="checkbox"/>
Drive_IH_Center_Torg_Min032 - SPARE		Drive_IH_Center_Torg_M...	ACACACB0B0D	Test Line 2 Copy: Joes Crab Shack	<input checked="" type="checkbox"/>
Drive_IH_Center_Torg_Min033 - SPARE		Drive_IH_Center_Torg_M...	ACACACB0B0D	Test Line 2 Copy: Joes Crab Shack	<input checked="" type="checkbox"/>

### Import PLC Files 3.6

The user can upload PLC files by selecting the "Select File to Upload" button in the upper left-hand corner of the enSight window.

Selecting this will reveal a window to navigate and upload a specific file desired.

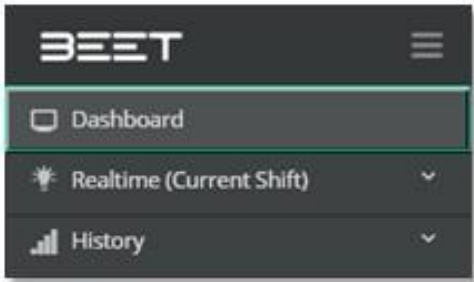


# enSight Dashboard

## Dashboard

- [Filter Date/Shift Range Tool](#)
- [Dashboard Waterfall Tab](#)
- [Dashboard OEE Tab](#)
- [Dashboard Summary Tab](#)

The enSight Browser will open with the Dashboard module.



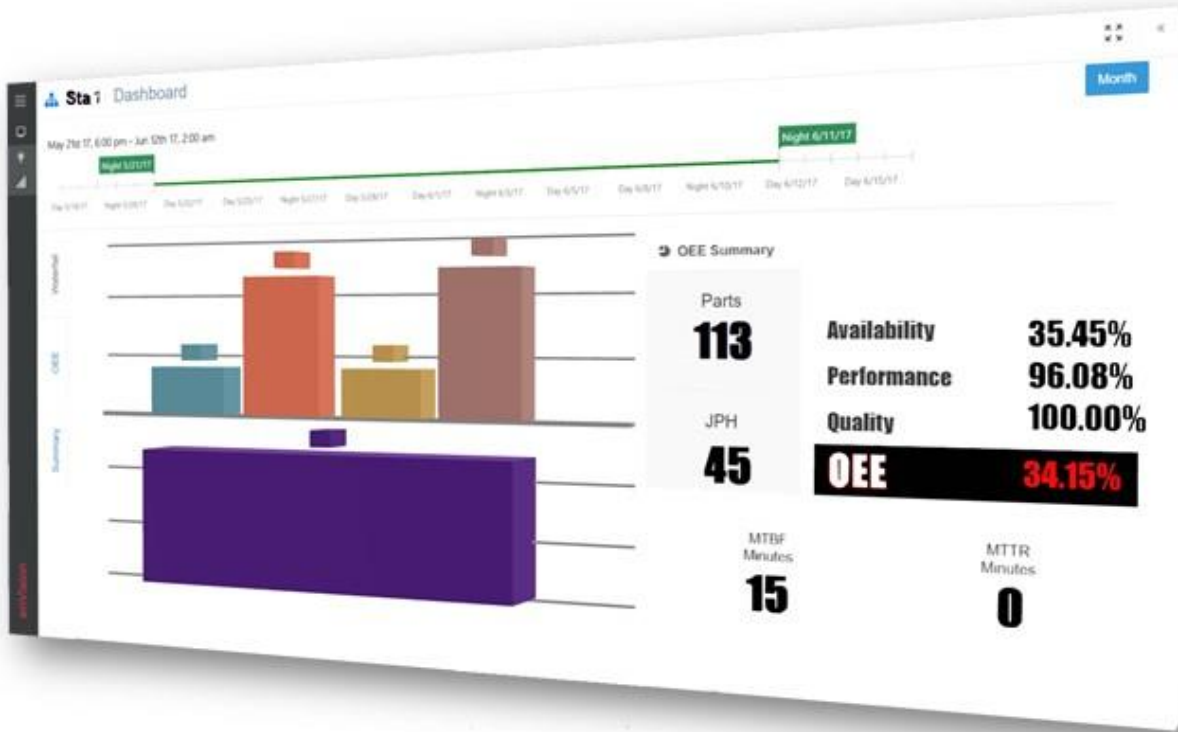
The Dashboard has three display tabs, **Waterfall**, **OEE**, and **Summary**. It will open to the default Waterfall display window.



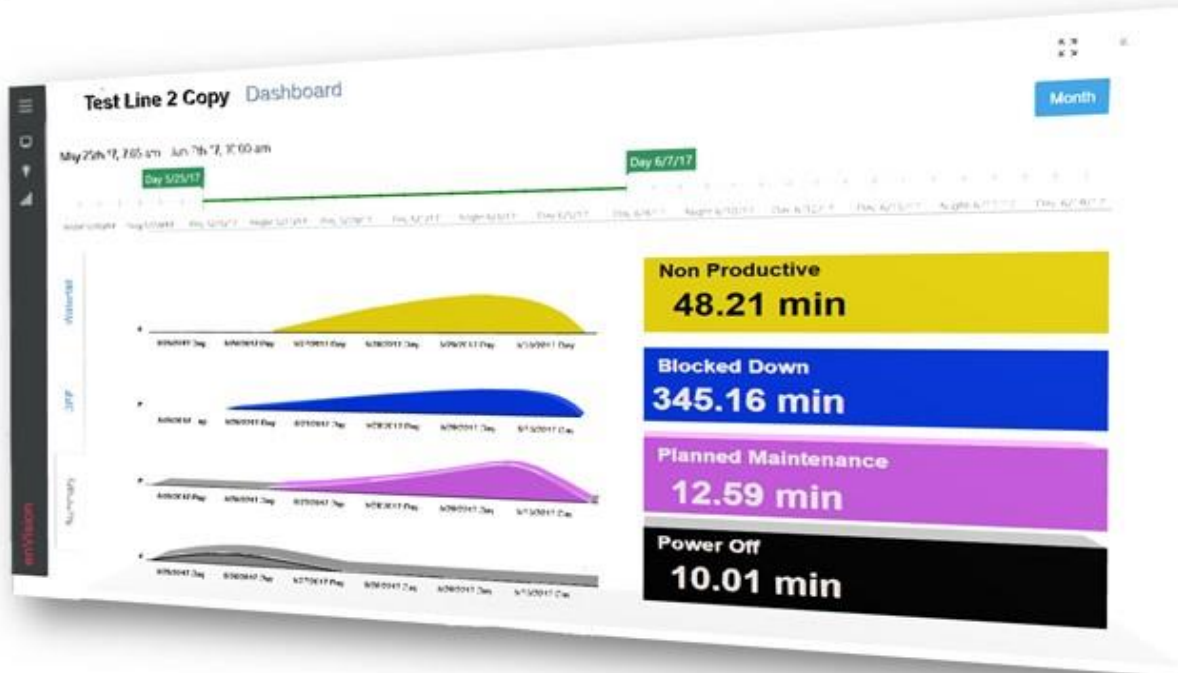
## Waterfall



OEE



Summary (State)

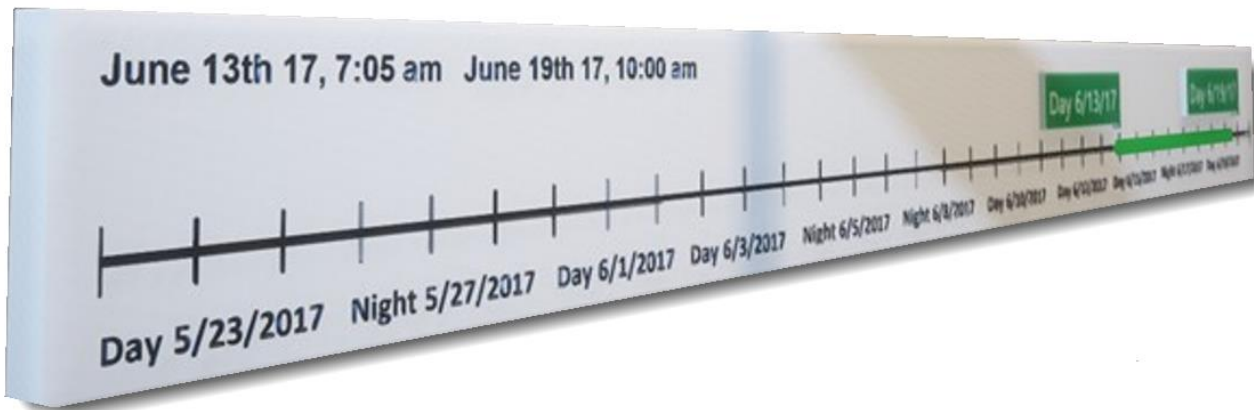




### Filter Date/Shift Range Tool

You can view a single shift or add more by utilizing the Filter Date/Shift Range tool at the top of the window (above the graphical data).

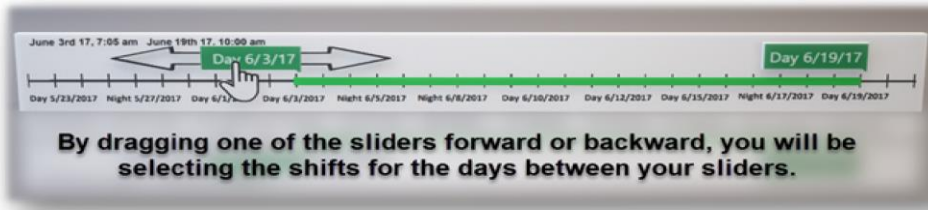
The range tool consists of a span of dates. Within the span is a Start Tab and an End Tab with a highlighted area between them. Each can be moved left or right to increase the amount of time selected between the Start and End label.



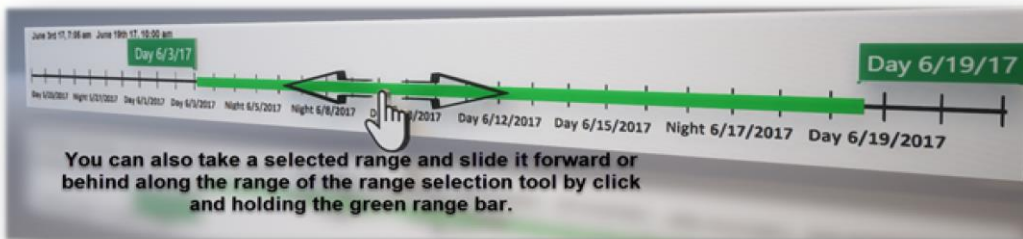
**Simply click and hold, then drag the end date selector over to your desired date and shift.**

Simply click and hold one of the dark grey sliders (1 st Shift 10/25/16), then slide it to the range you would like to view.

By dragging one of the sliders over, you will be selecting the shifts for the days between your sliders.



You can also take a selected range and slide it forward or behind along the range of the range selection tool. This action allows the user to maintain the same amount of a selected range, but also allowing the user to move it forward or backwards through the time graph.

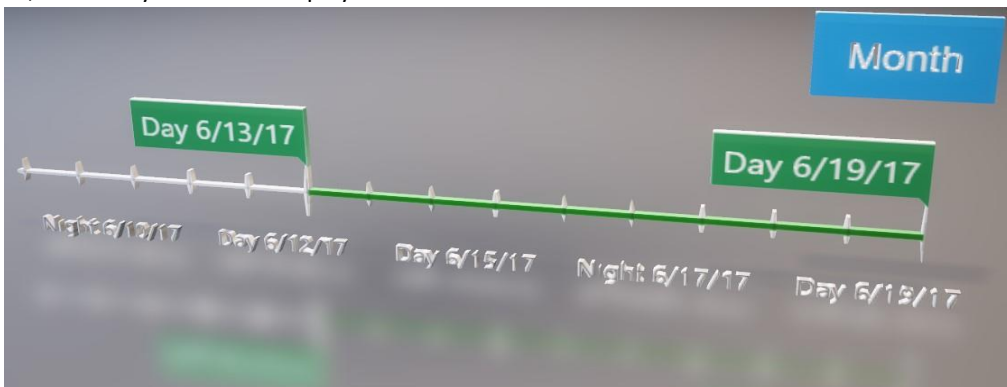


## Dashboard Waterfall Tab

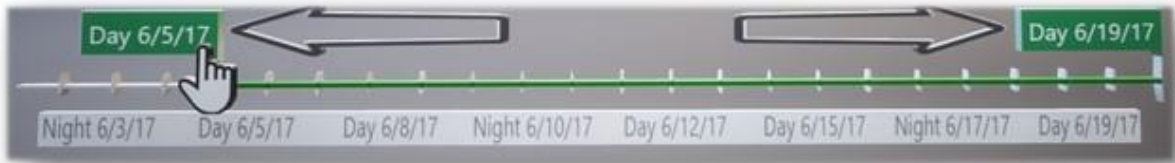
Waterfall displays the time usage from the shift or selected shifts from the **Filter Date/Shift Range Tool**, above the graphical data.



When the Dashboard is first opened, it is opened at the current Time and Date at the End Tab, with the Start time ~ 3 days before. In this case, there may no data to display.



Use the **Filter Date/Shift Range Tool** to move the Start and or End time to encompass a range of area or to a specific period where there is data.



## Dashboard OEE Tab

- [OEE Tab](#)
- [OEE graph](#)
- [OEE Summary](#)
- [JPH graph](#)



## OEE Tab



The OEE tab, displays the **Overall Equipment Effectiveness** of a selected shift or shifts, as well as the JPH or Jobs Per Hour, number of parts made, and the average jobs per hour. Above this graphical data is a Filter Date/Shift Range sorting tool.

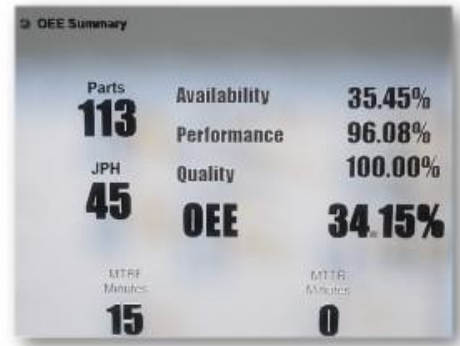
## OEE graph

The OEE graph in the upper left side of the lower graphs, displays the OEE, Performance, Availability, and Quality.



### OEE Summary

The OEE Summary in the upper right side of the lower graphs, displays Parts, JPH, Availability, Performance, Quality, and the OEE in percentage, all in numeral form.



### JPH graph

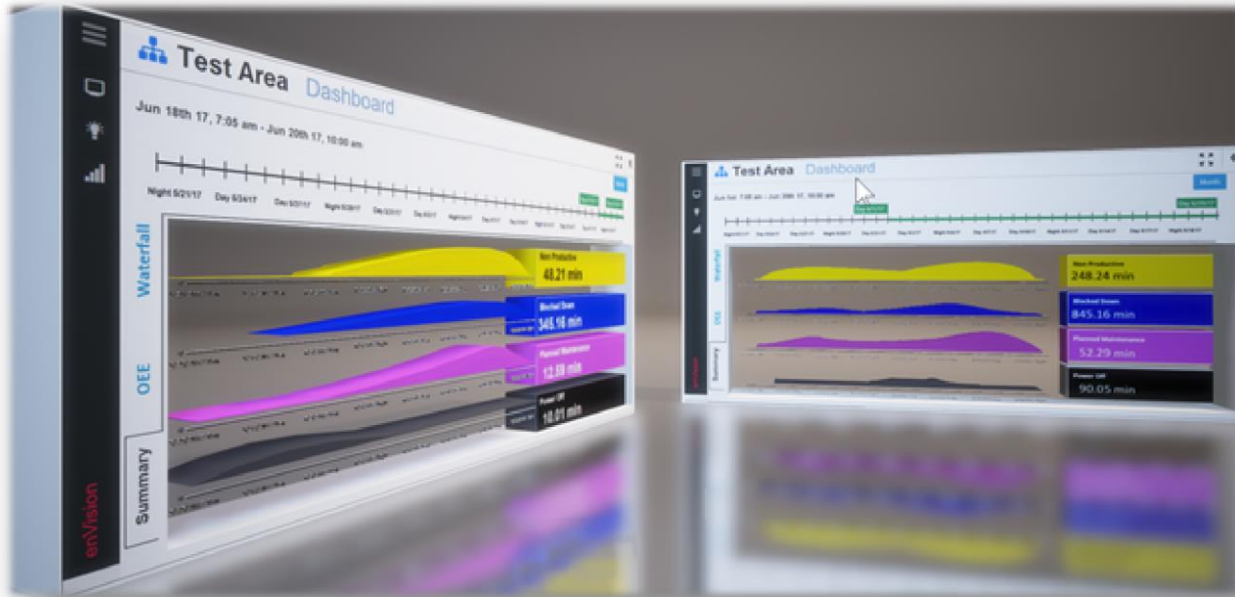


The JPH graph is in the lower left side under the OEE graph. It shows the Jobs per hour in a graphical form.

After sliding the Filter Date/Shift Range tool to the left the OEE, OEE Summary, and the JPH graphs will expand and update to show the multiple shifts and totals.

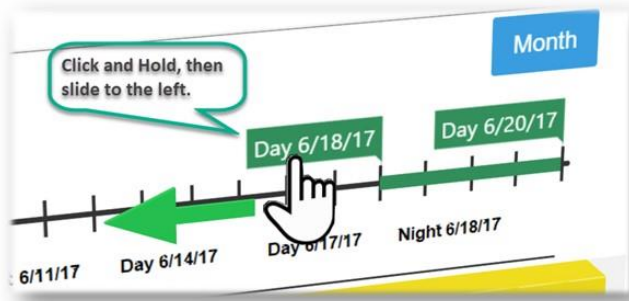


### Dashboard Summary Tab



The State Summary tab consist of a summation of time spent in a state, as well as how it compares to the preceding shift or shifts selection.



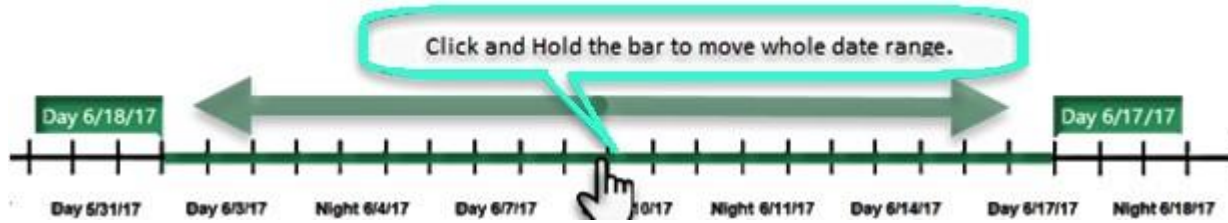


To compare with the other shifts, simply use the Filter Date/Shift Range slider to adjust range and slide the range from certain points on the range tool. Click and hold one of the sliders, and increase the range by moving it away from the other.

Release and the graphical data below will update and show the results of your range selected.



You can also take a preset range and move the whole selection by clicking and holding the highlighted area of your selection as shown. The graphical date will update when you release the cursor.





## Realtime (Current Shift)\*

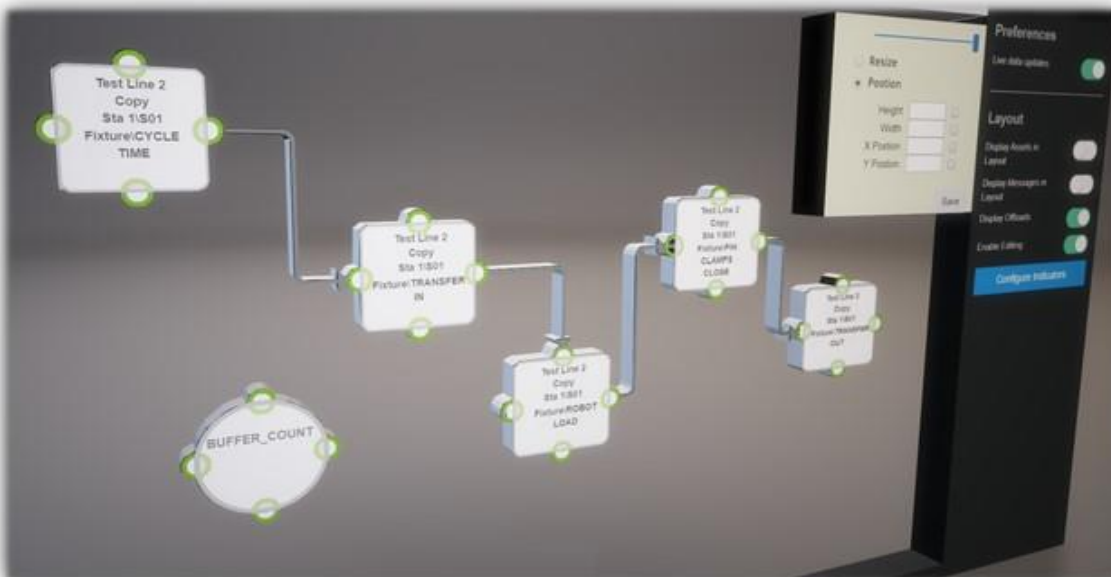
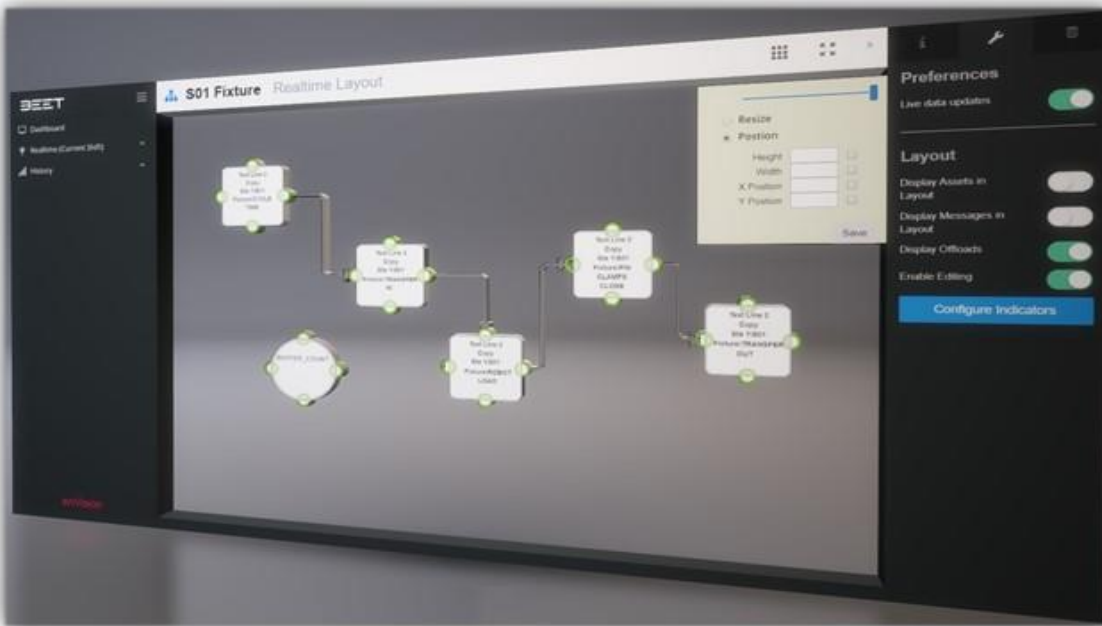
Below the dashboard is the real time for current shift it contains, time line, and cycle length.

The Realtime section consist of several subsections:

- [Layout](#)
- [Realtime Timeline Tab](#)
- [Realtime Messages](#)
- [Realtime Cyclelength Tab](#)

### Layout

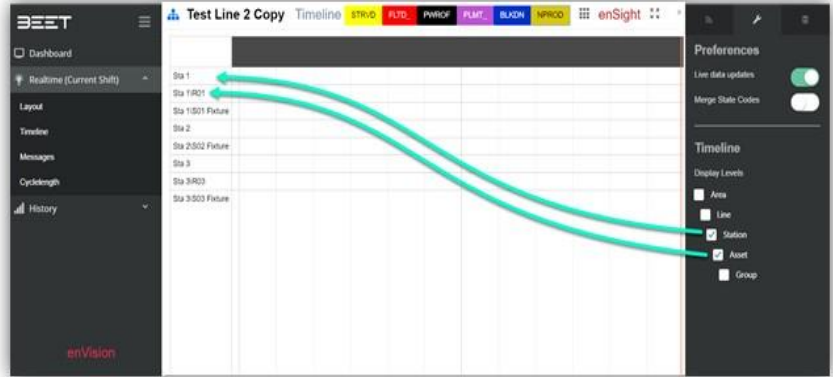
The layout view displays the current state and messages in real-time.



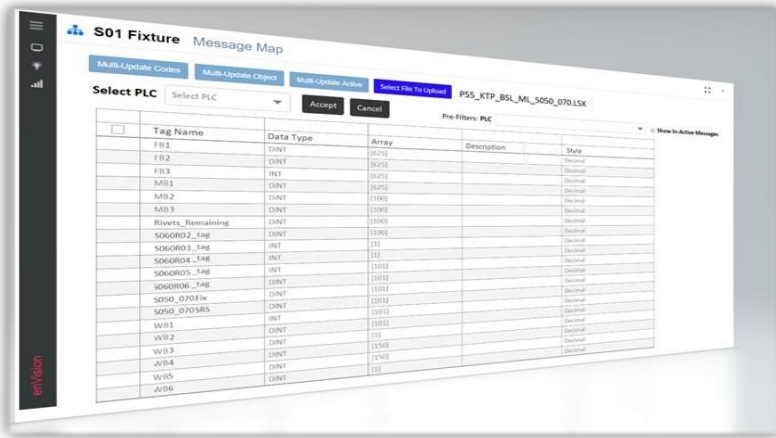
## Timeline Tab

The Timeline section contains an active Real time scrolling table to represent the Timeline.

The Timeline displays a Real time timeline that scrolls from right to left. In the scrolling time graph, it displays the real-time messages for each station. The time graph is setup with the stations in the column and the time across the top row.

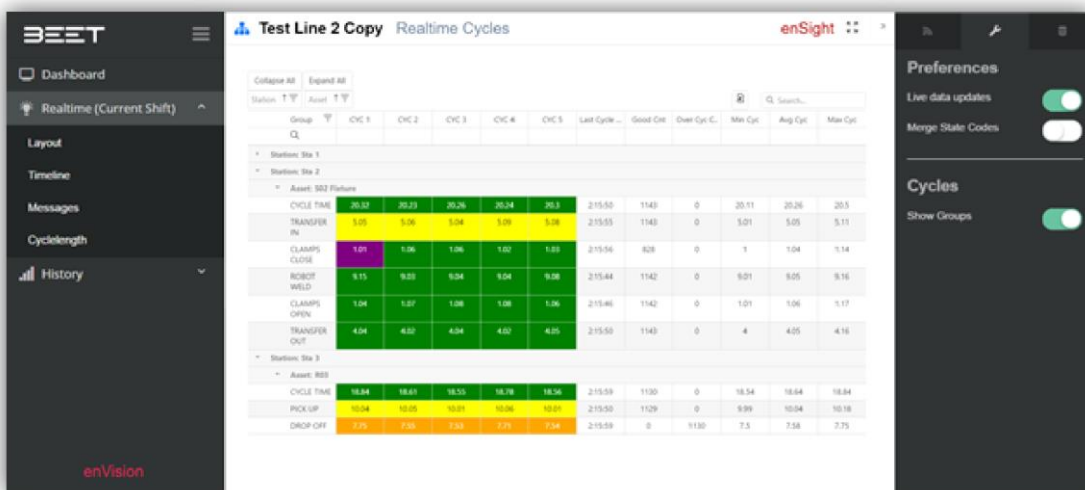


## Messages



## Cyclelength

Cyclelength tab shows an updating table with the last 5 cycles down to the group level.

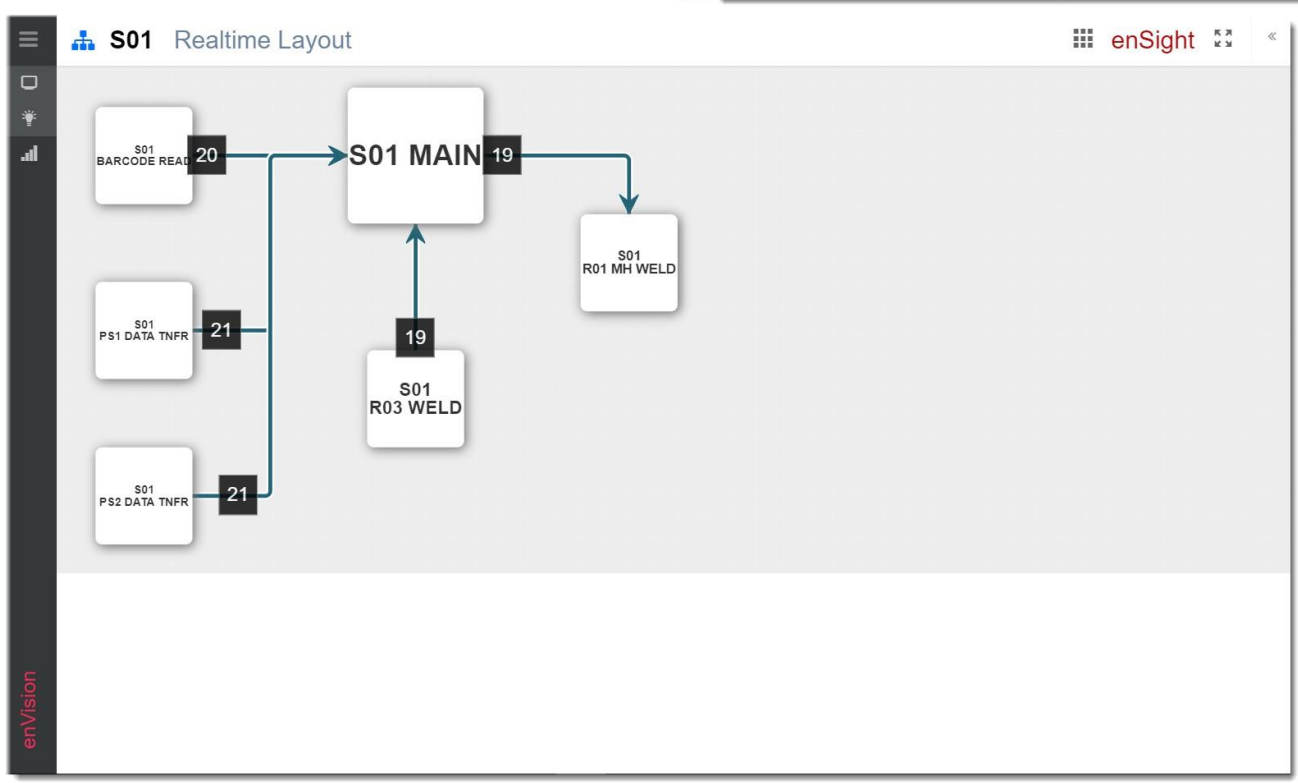
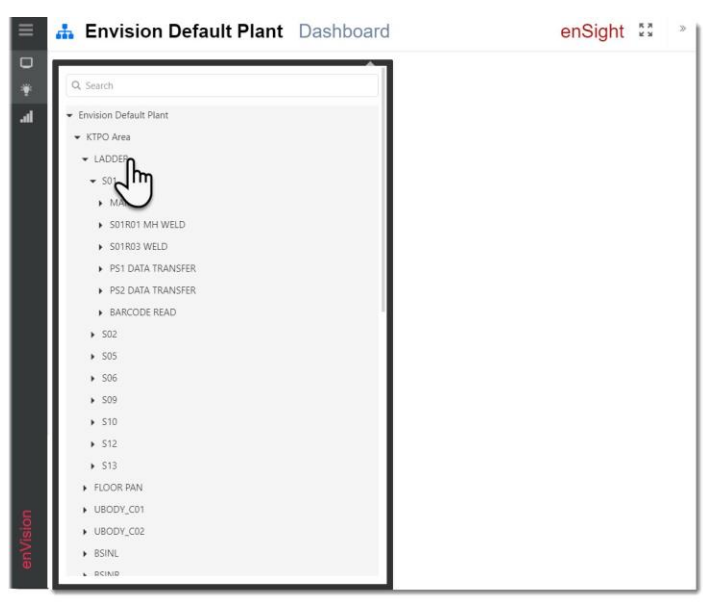


# Realtime Layout

## Layout

The layout view displays the current state and messages in real-time. The color and code is based on the legend at the top of the page and is completely configurable. The objects displayed are the selected Assets that were selected on the object tree. The layout view is completely configurable, including layout, size, shape and content.

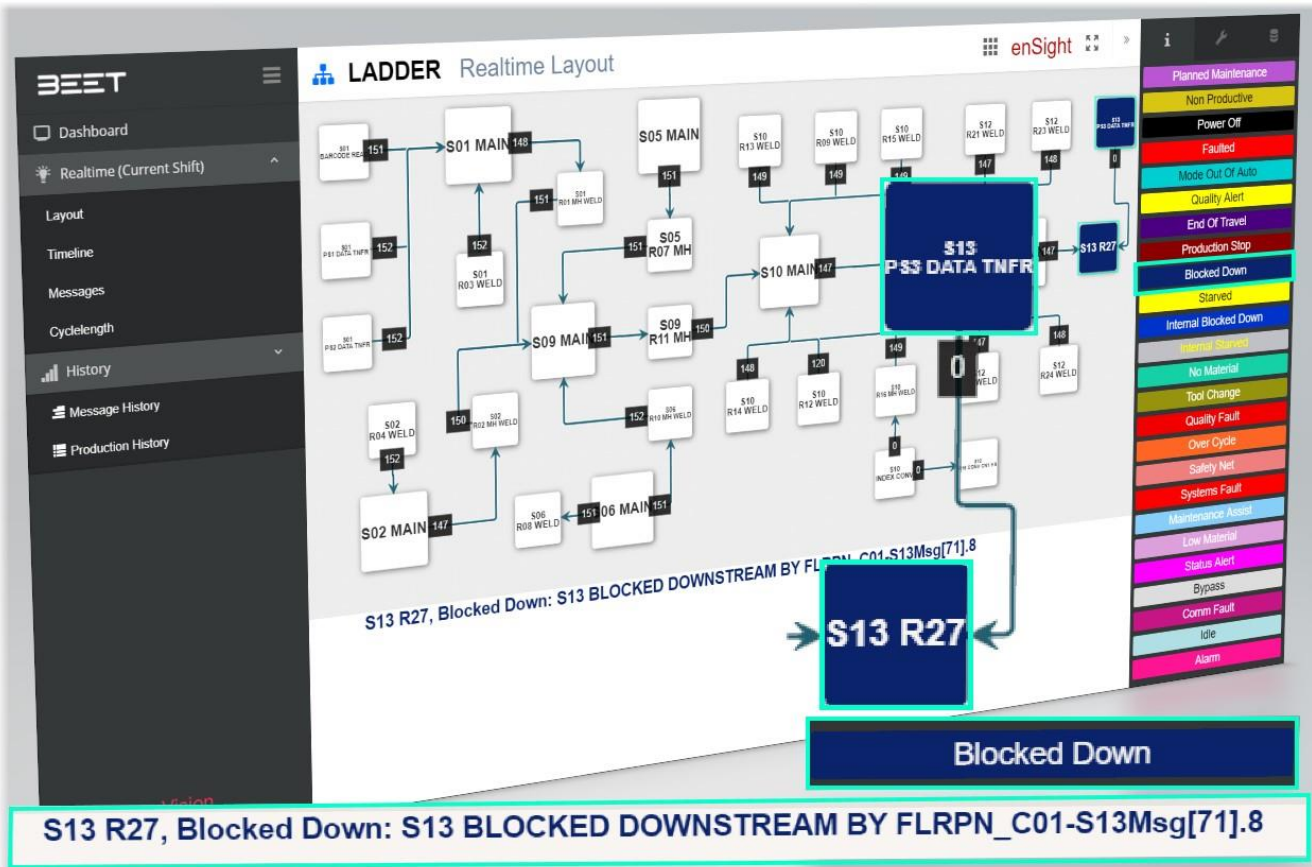
Open the Factory Tree and navigate down to the level you wish to see the layout of. When it opens, it will show the **Stations** within the **Line** you selected (**Test Line 2 Copy**).



The user can now utilize the Layout toggles to add or remove more information about the Objects displayed.

### Layout Information 3.6

In the Layout, when Information tab is selected, it will display a legend of all the configured states on the right-hand side of the browser. While in this mode, any change of state will be represented by a change of color to the actual object of concern and a message will appear below the Layout Area.



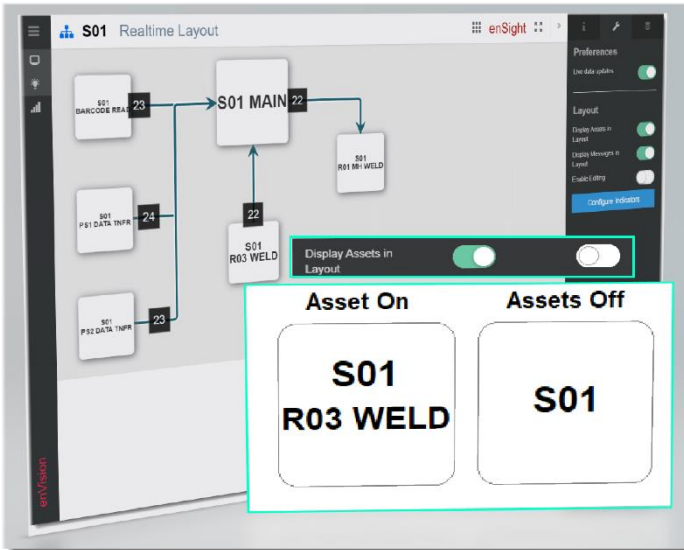
The screenshot displays the BEET LADDER Realtime Layout interface. On the left is a navigation menu with options: Dashboard, Realtime (Current Shift), Layout, Timeline, Messages, Cyclength, History, Message History, and Production History. The main area shows a network diagram with nodes like S01 MAIN, S05 MAIN, S09 MAIN, S10 MAIN, S13 PSS DATA TNFR, and S13 R27. A message at the bottom of the diagram reads: "S13 R27, Blocked Down: S13 BLOCKED DOWNSTREAM BY FLRPN\_C01-S13Msg[71].8". A callout box points to the S13 R27 node with the text "Blocked Down". On the right is a legend of states with color-coded boxes: Planned Maintenance (purple), Non Productive (yellow), Power Off (red), Faulted (red), Mode Out Of Auto (cyan), Quality Alert (yellow), End Of Travel (purple), Production Stop (red), Blocked Down (blue), Starved (yellow), Internal Blocked Down (blue), Internal Starved (grey), No Material (green), Tool Change (green), Quality Fault (orange), Over Cycle (orange), Safety Net (red), Systems Fault (red), Maintenance/Asses (blue), Low Material (purple), Status Alert (purple), Bypass (purple), Comm Fault (purple), Idle (pink), and Alarm (pink).

**S13 R27, Blocked Down: S13 BLOCKED DOWNSTREAM BY FLRPN\_C01-S13Msg[71].8**

## Layout Preferences 3.6

The Preference tab when selected offers the options to Display Assets in Layout, Display Messages in Layout, and the option to Enable Editing.

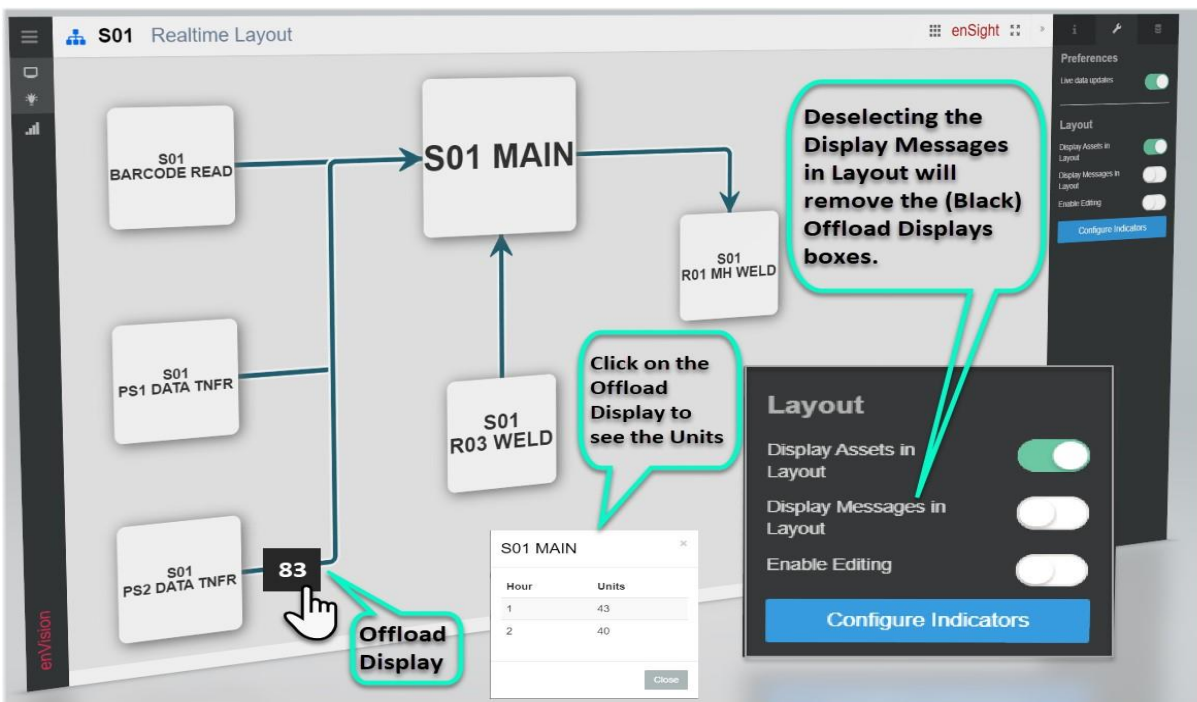
### Display Asset in Layout



Select the Display Assets in Layout to add the Asset labels to their corresponding Stations.

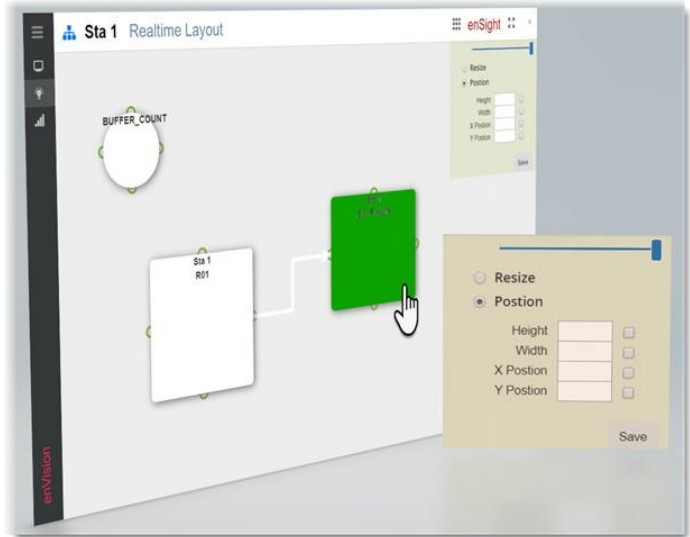
### Display Messages in Layout

The Display Messages in Layout button will control the display of the Offload boxes. Turning off this feature will remove the Offload box and the ability to monitor the total cycles by hour.



### Enable Editing

The Enable Editing option will reopen the browser with an editing tool in the upper right-hand corner. Use the tool to change the size, and/or position, via use of the mouse or inputting coordinates. Once it is to your liking, click the Save button to save your work and toggle the Enable Editing button to the off position to exit the editing mode.



**Selecting either the Resize or Position will allow you to utilize the cursor to make your adjustment to size and position in the browser window.**

**This slider will allow you to increase or decrease the scale of the Layout window.**

**Click on the object you would like to change.**

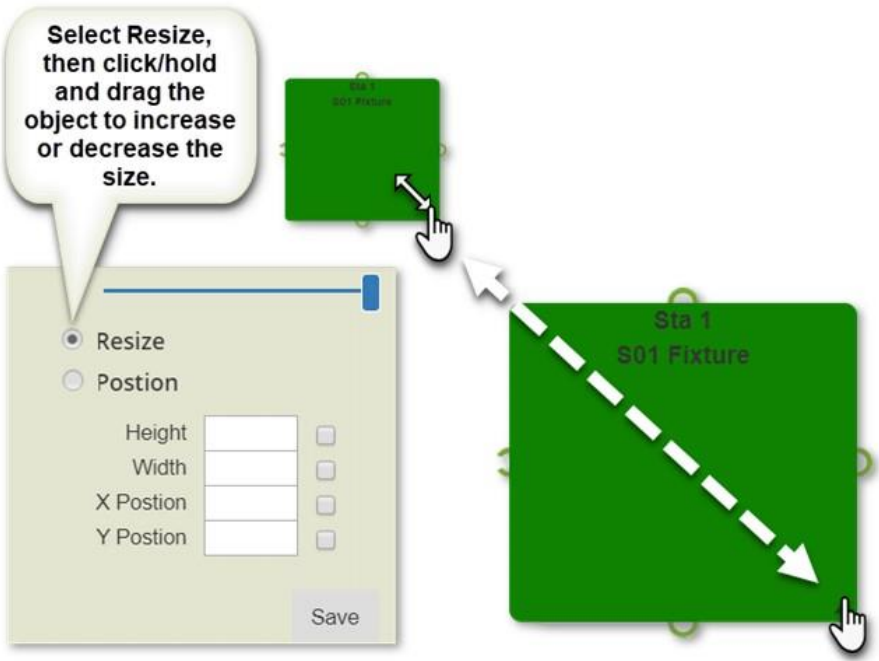
**This information will populate when an object is selected.**

Height	150	<input type="checkbox"/>
Width	170	<input type="checkbox"/>
X Position	600	<input type="checkbox"/>
Y Position	240	<input type="checkbox"/>

**To make changes via edit boxes, you can make the change, then check off the box, then click Save to complete the changes.**

### Resizing an Object

Resizing an object can be done in two ways. The first way is to do it manually, by selecting the Resize option. After selecting an object, clicking on this will allow the user to grab a corner of the object and drag it to make it larger or smaller. Make it the size you desire and that's it.



The second way is to utilize the edit box. Simply fill in the edit box, then check off the check box to the right, then click Save. The object will update.

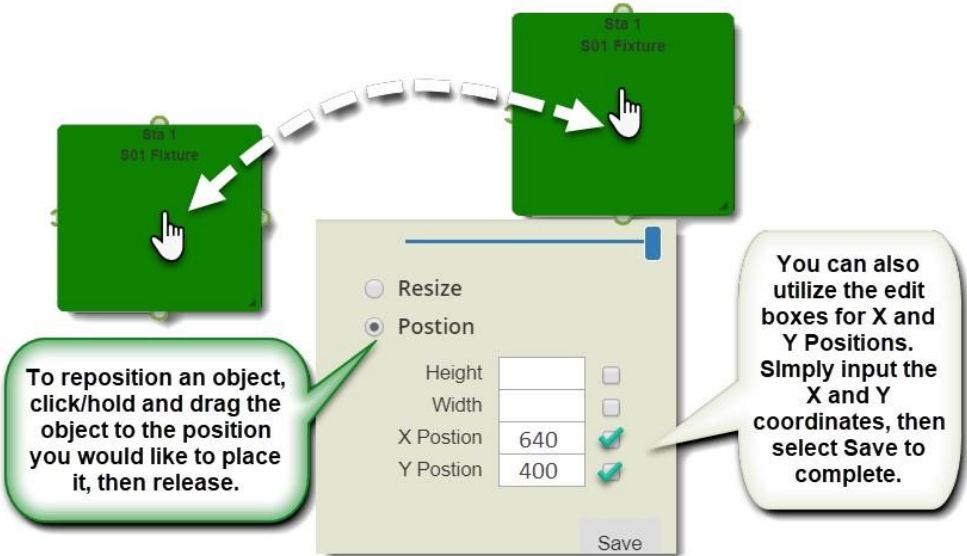
### Repositioning an Object

To move an object manually, select the Position option. This will allow you to use the cursor to make the changes. Simply click and hold, then move the object to the position you desire on the layout screen.

You can also utilize the edit boxes for X and Y Positions. Simply input the X and Y coordinates, then select Save to complete.

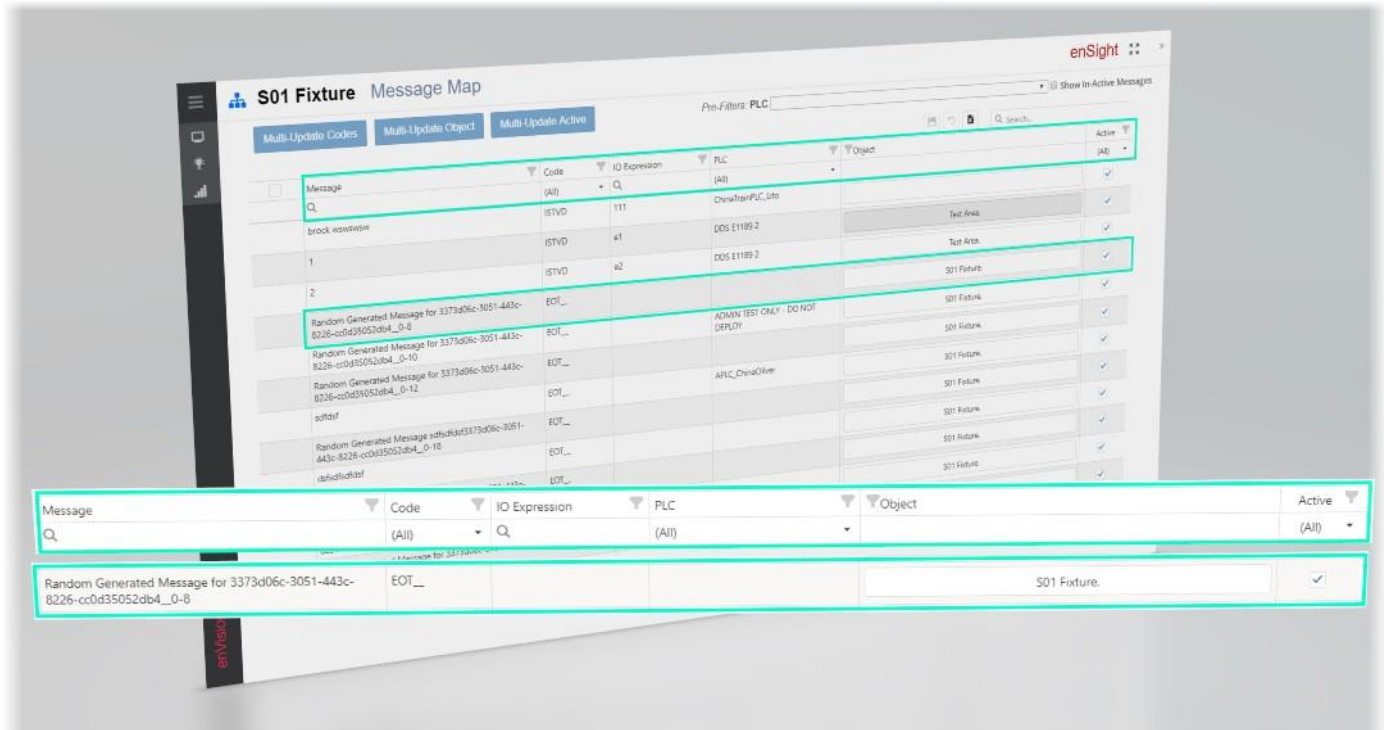
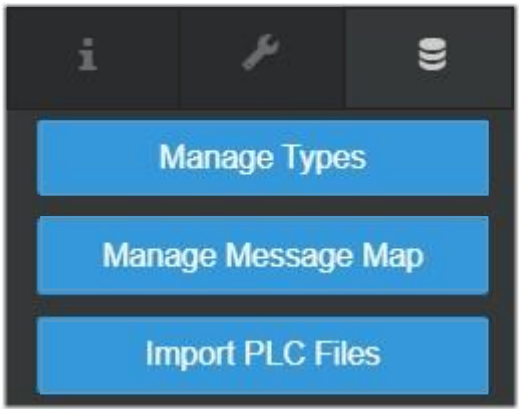
### Layout Admin 3.6

The Admin Tab contains the Manage Types and Manage Message Maps.



### Layout Admin

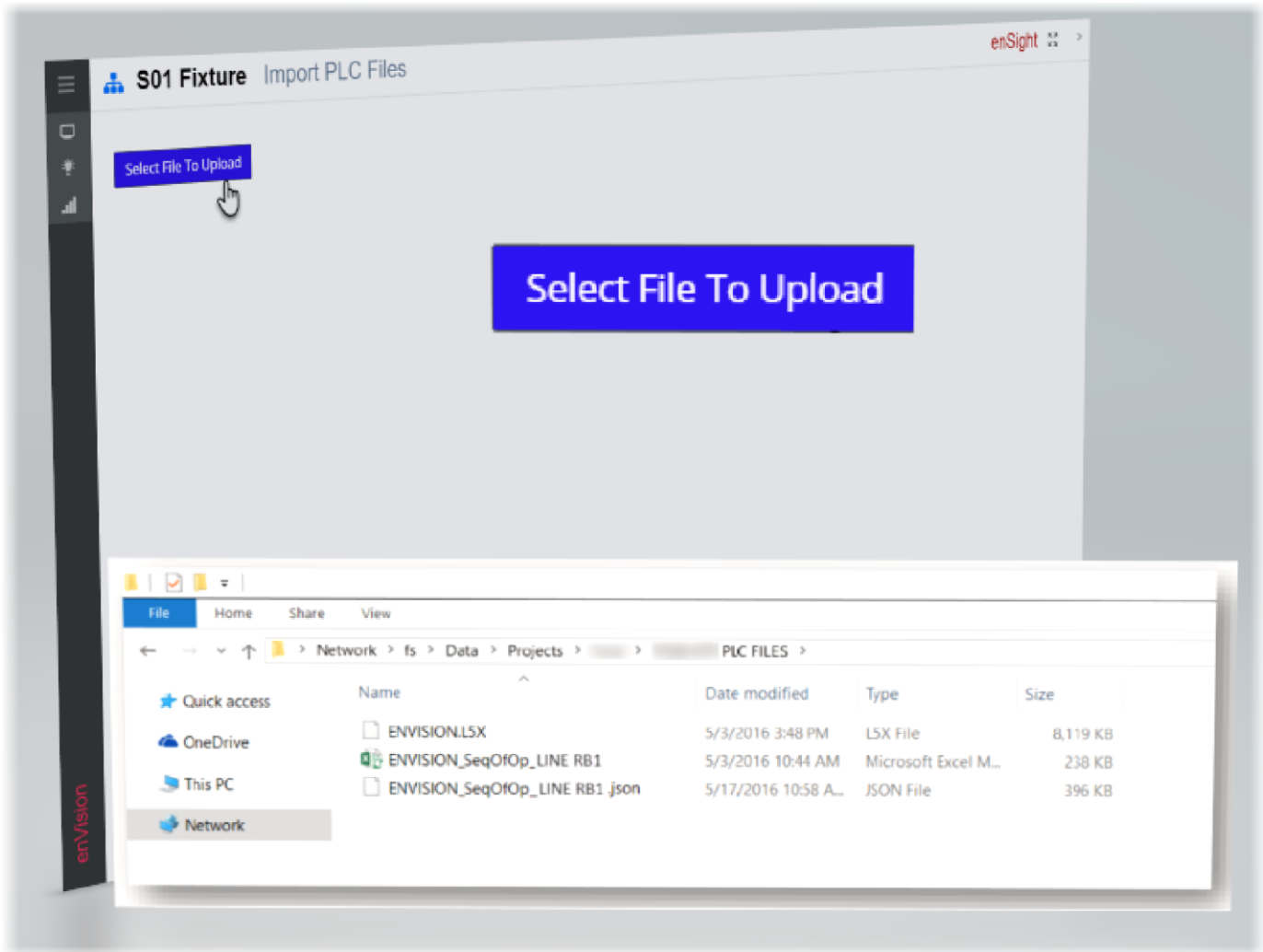
- [Manage Types \(Layout\)](#)
- [Manage Message Maps \(Layout\)](#)
- [Import PLC Files \(Layout\)](#)





### Import PLC Files (Layout)

The user can upload PLC files by selecting the "Select File to Upload" button in the upper left-hand corner of the enSight window. Selecting this will reveal a window to navigate and upload a specific file desired.





## Manage Message Maps (Layout)

The Manage Message Maps module allows you to control and configure the messages in the PLC for the Object using the IO Expression.

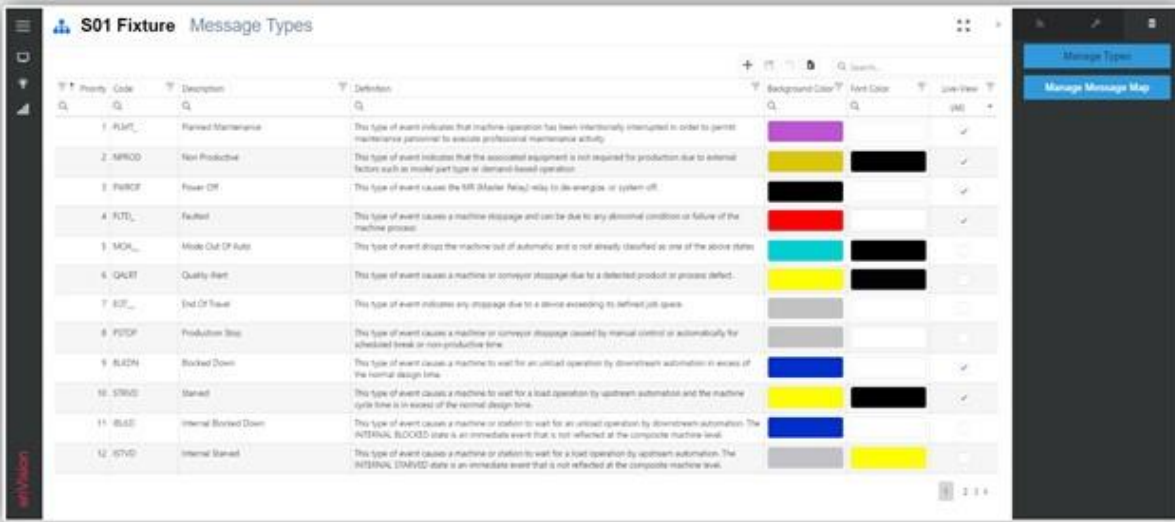
The Table consist of multiple columns including Message, Code, IO Expression, PLC, Object and Active (Status).

Message	Code	IO Expression	PLC	Object	Active
Drive_LH_Center_Torq_Mot[0] - SPARE	IAR	Drive_LH_Center_Torq_M...	ACACACBDBED	Test Line 2 Copy...	<input type="checkbox"/>
Drive_LH_Center_Torq_Mot[1] - SPARE	IAR	Drive_LH_Center_Torq_M...	ACACACBDBED	Test Line 2 Copy...	<input type="checkbox"/>
Drive_LH_Center_Torq_Mot[2] - SPARE	IAR	Drive_LH_Center_Torq_M...	ACACACBDBED	Test Line 2 Copy...	<input type="checkbox"/>
Drive_LH_Center_Torq_Mot[3] - SPARE	IAR	Drive_LH_Center_Torq_M...	ACACACBDBED	Test Line 2 Copy: Joes Crab Shack	<input checked="" type="checkbox"/>
Drive_LH_Center_Torq_Mot[4] - SPARE	IAR	Drive_LH_Center_Torq_M...	ACACACBDBED	Test Line 2 Copy...	<input type="checkbox"/>
Drive_LH_Center_Torq_Mot[5] - SPARE	IAR	Drive_LH_Center_Torq_M...	ACACACBDBED	Test Line 2 Copy...	<input type="checkbox"/>
Drive_LH_Center_Torq_Mot[6] - SPARE	IAR	Drive_LH_Center_Torq_M...	ACACACBDBED	Test Line 2 Copy...	<input type="checkbox"/>
Drive_LH_Center_Torq_Mot[7] - SPARE	IAR	Drive_LH_Center_Torq_M...	ACACACBDBED	Test Line 2 Copy: Joes Crab Shack	<input checked="" type="checkbox"/>
Drive_LH_Center_Torq_Mot[8] - SPARE	IAR	Drive_LH_Center_Torq_M...	ACACACBDBED	Test Line 2 Copy: Joes Crab Shack	<input checked="" type="checkbox"/>
Drive_LH_Center_Torq_Mot[9] - SPARE	IAR	Drive_LH_Center_Torq_M...	ACACACBDBED	Test Line 2 Copy: Joes Crab Shack	<input checked="" type="checkbox"/>
Drive_LH_Center_Torq_Mot[10] - SPARE	IAR	Drive_LH_Center_Torq_M...	ACACACBDBED	Test Line 2 Copy: Joes Crab Shack	<input checked="" type="checkbox"/>
Drive_LH_Center_Torq_Mot[11] - SPARE	IAR	Drive_LH_Center_Torq_M...	ACACACBDBED	Test Line 2 Copy: Joes Crab Shack	<input checked="" type="checkbox"/>

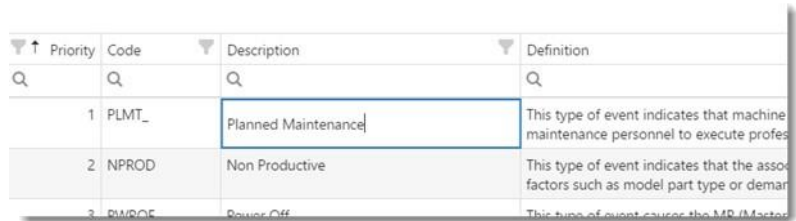
Message	Code	IO Expression	PLC	Object	Active
Drive_LH_Center_Torq_Mot[0] - SPARE	IAR	Drive_LH_Center_Torq_M...	IAR	Test Line 2 Copy...	(All)
Drive_LH_Center_Torq_Mot[1] - SPARE	NPROD	Drive_LH_Center_Torq_M...	A NEW DEVICE that is now changed	Test Line 2 Copy...	True
Drive_LH_Center_Torq_Mot[2] - SPARE	MOA	Drive_LH_Center_Torq_M...	AAA Baseelbar	Test Line 2 Copy...	False
Drive_LH_Center_Torq_Mot[3] - SPARE	EOT	Drive_LH_Center_Torq_M...	ACACACBDBED	Test Line 2 Copy...	<input type="checkbox"/>
Drive_LH_Center_Torq_Mot[4] - SPARE	FLKDN	Drive_LH_Center_Torq_M...	ADMIN TEST ONLY - DO NOT DEPLOY	Test Line 2 Copy...	<input type="checkbox"/>
Drive_LH_Center_Torq_Mot[5] - SPARE	STVD	Drive_LH_Center_Torq_M...	AGENT PLC TEST	Test Line 2 Copy: Joes Crab Shack	<input checked="" type="checkbox"/>
Drive_LH_Center_Torq_Mot[6] - SPARE	OUFLT	Drive_LH_Center_Torq_M...	APLC_ChinaOliver	Test Line 2 Copy...	<input type="checkbox"/>
Drive_LH_Center_Torq_Mot[7] - SPARE	SFINI	Drive_LH_Center_Torq_M...	ChinaInPLC_Lite	Test Line 2 Copy...	<input type="checkbox"/>
Drive_LH_Center_Torq_Mot[8] - SPARE	MAINT	Drive_LH_Center_Torq_M...	Ch Loop 1 Zone 3 ALL	Test Line 2 Copy...	<input type="checkbox"/>
Drive_LH_Center_Torq_Mot[9] - SPARE	SALRT	Drive_LH_Center_Torq_M...	Ch Loop 1 Zone 3 Sta 26	Test Line 2 Copy...	<input type="checkbox"/>
Drive_LH_Center_Torq_Mot[10] - SPARE	DEGRD	Drive_LH_Center_Torq_M...	Ch Loop 1 Zone 3 Sta 27	Test Line 2 Copy...	<input type="checkbox"/>
Drive_LH_Center_Torq_Mot[11] - SPARE	PNCYC	Drive_LH_Center_Torq_M...	Ch Loop 1 Zone 3 Sta 31	Test Line 2 Copy...	<input type="checkbox"/>
Drive_LH_Center_Torq_Mot[12] - SPARE	IDLE	Drive_LH_Center_Torq_M...	DO Assembly Area Sim_4	Test Line 2 Copy...	<input type="checkbox"/>
Drive_LH_Center_Torq_Mot[13] - SPARE	PVONL	Drive_LH_Center_Torq_M...	DDS E1189 2	Test Line 2 Copy...	<input type="checkbox"/>
Drive_LH_Center_Torq_Mot[14] - SPARE	PLMT	Drive_LH_Center_Torq_M...	DDS E1189 3	Test Line 2 Copy: Joes Crab Shack	<input checked="" type="checkbox"/>
Drive_LH_Center_Torq_Mot[15] - SPARE	PWROP	Drive_LH_Center_Torq_M...	DDS E1189 4	Test Line 2 Copy: Joes Crab Shack	<input checked="" type="checkbox"/>
Drive_LH_Center_Torq_Mot[16] - SPARE	FLTD	Drive_LH_Center_Torq_M...	DDS E1189 5	Test Line 2 Copy: Joes Crab Shack	<input checked="" type="checkbox"/>
Drive_LH_Center_Torq_Mot[17] - SPARE	QALRT	Drive_LH_Center_Torq_M...	DevicWISE_TEST	Test Line 2 Copy: Joes Crab Shack	<input checked="" type="checkbox"/>
Drive_LH_Center_Torq_Mot[18] - SPARE	PSTOP	Drive_LH_Center_Torq_M...	ENVISIONFaults-1	Test Line 2 Copy: Joes Crab Shack	<input checked="" type="checkbox"/>
Drive_LH_Center_Torq_Mot[19] - SPARE	STRVD	Drive_LH_Center_Torq_M...	ENVISIONFaults-2	Test Line 2 Copy: Joes Crab Shack	<input checked="" type="checkbox"/>
Drive_LH_Center_Torq_Mot[20] - SPARE	IBLKD	Drive_LH_Center_Torq_M...	ENVISIONFaults-3	Test Line 2 Copy: Joes Crab Shack	<input checked="" type="checkbox"/>
Drive_LH_Center_Torq_Mot[21] - SPARE	ICOMAT	Drive_LH_Center_Torq_M...	ITI IZI	Test Line 2 Copy: Joes Crab Shack	<input checked="" type="checkbox"/>
Drive_LH_Center_Torq_Mot[22] - SPARE	IAR	Drive_LH_Center_Torq_M...	ACACACBDBED	Test Line 2 Copy: Joes Crab Shack	<input checked="" type="checkbox"/>
Drive_LH_Center_Torq_Mot[23] - SPARE	IAR	Drive_LH_Center_Torq_M...	ACACACBDBED	Test Line 2 Copy: Joes Crab Shack	<input checked="" type="checkbox"/>

## Manage Types (Layout)

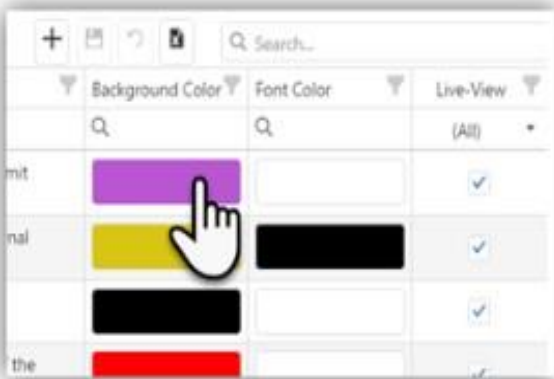
In the **Manage Types** module, you can setup and configure the messages that will be displayed in the **enSight** browser. The user can configure the **Priority, Code, Description, Definition, Background, Font Colors**, and whether it will appear in **Live-View**.



Simply click on a cell and a **editing highlight window** will open for you to edit the contents.

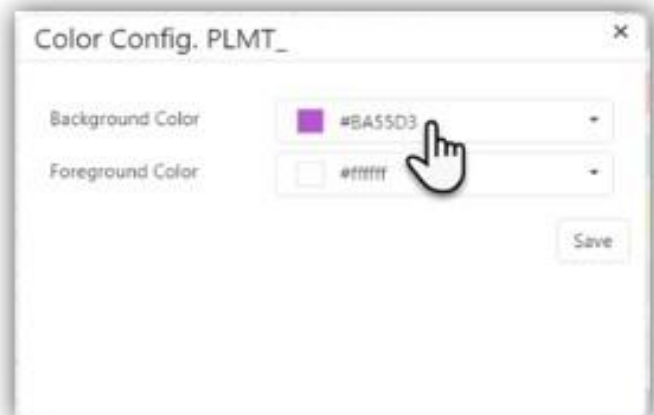


## Background and Font Color

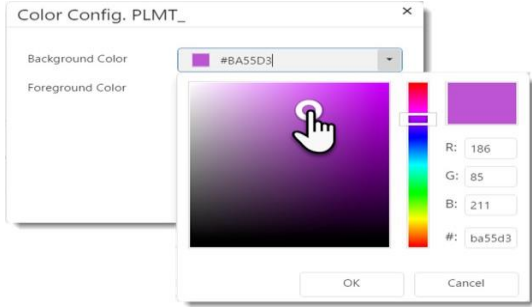


The Background and Font Color control are similar when you want to add or change a color. Simply select the color sample on the Message Type

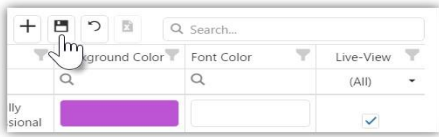
A **Color Config. window** will reveal. Click on the **Background** or **Foreground** pull down box and a color pallet will open above it.



Use the **reticle** to choose the color you would desire. Use the slider or **RGB** edit boxes to change the coloring. Click **OK** to set the color. Any changes made require you to save.



After the changes are made, select the **Save** Icon to save your changes.



Live-View

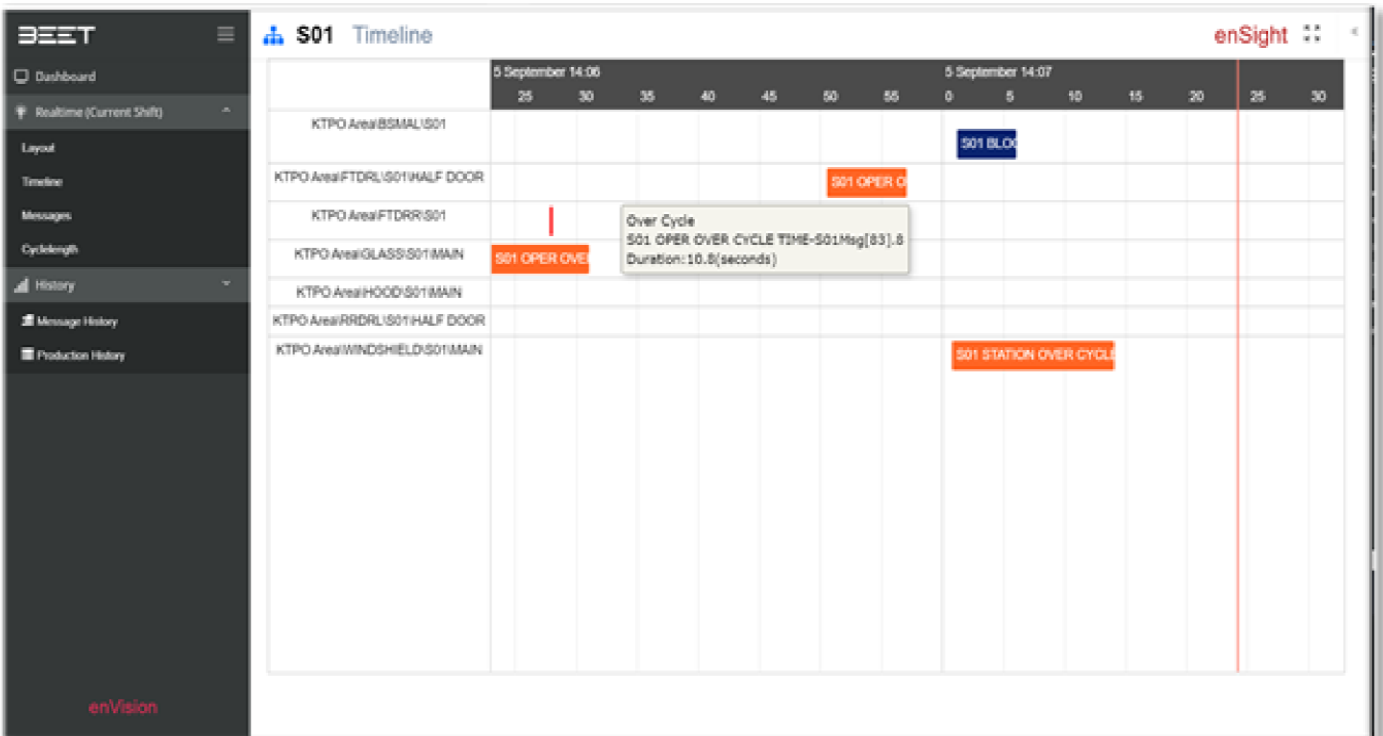


**Check off** the **selection box** if you want these parameters to appear in the **Live-View Module**.

## Realtime Timeline Tab

The Timeline section contains an active Real time scrolling table to represent the Timeline.

The Timeline displays scrolls from right to left. Within the scrolling time graph, it displays the real-time messages for each station. The time graph is setup with the stations in the column and the time across the top row. The User can filter what objects to display by opening the Right Side Menu and selecting the Preference Tab, then the user can select and unselect the Display levels.



In the information tab lies the color-coded States Legend. This can be used to identify the state messages that are appearing in real-time.

The screenshot displays the 'enSight S01 Timeline' interface. On the left, a list of areas is shown, including 'AMTO AreaBSMR-S01MAIN', 'AMTO AreaBSMR-S01S01R05 MH WELD PED WELD', 'AMTO AreaFTDRL-S01', 'AMTO AreaFTDRL-S01S01R01 WELD', 'AMTO AreaFTDRL-S01', 'AMTO AreaGLASS-S01MAIN', 'AMTO AreaHOOD-S01MAIN', 'AMTO AreaRRDRL-S01HALF DOOR', 'AMTO AreaRRDRL-S01HALF DOOR', 'AMTO AreaSWING GATE-S01', 'AMTO AreaSWING GATE-S01MAIN', and 'AMTO AreaWINDSHIELD-S01MAIN'. The main timeline area shows a grid with colored bars representing state messages. A 'States Legend' is located on the right, listing various states with corresponding color-coded boxes. A tooltip is shown over a red message box, displaying the message text and its duration.

In the information tab lies the color coded States Legend. This can be used to identify the state messages that are appearing in real-time.

Hovering the Cursor above the message will reveal the State Message, address and the Duration of the event.

## Realtime Messages

Messages in Realtime can be viewed in Realtime in the browser. The Messages in the Realtime tab, displays all the messages as they occur in a color coded list by state. Each messages displays the Date, Time, Code (State), Message, Object, and the Duration of the event.

**S01 Incoming Messages (Plant-wide)**

Messages in the Realtime tab, displays all the messages as they occur in a color coded list by state.

Each messages displays the Date, Time, Code (State), Message, Object, and the Duration of the event.

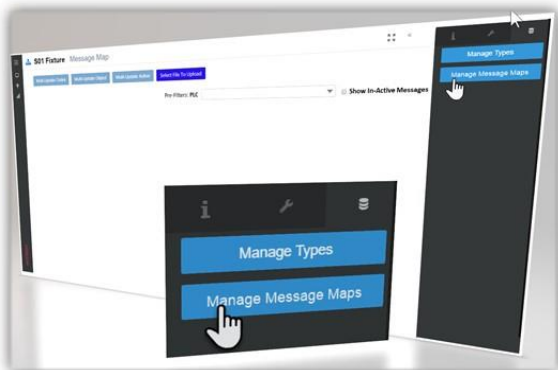
Code: OCYCL | Message: S14 STATION OVER CYCLE TIME-S14Msg[83].7 | Object: MTPO Area\FDTRRIS14 IMAIN | Duration: 16.26 (seconds)

## Adding Messages to PLC

Messages for the PLC's are in the L5X files which can be loaded into a PLC. Go to the upper right-hand side menu by clicking on the arrows. This action will open the Right-Side

Menu and offer you three options to proceed.

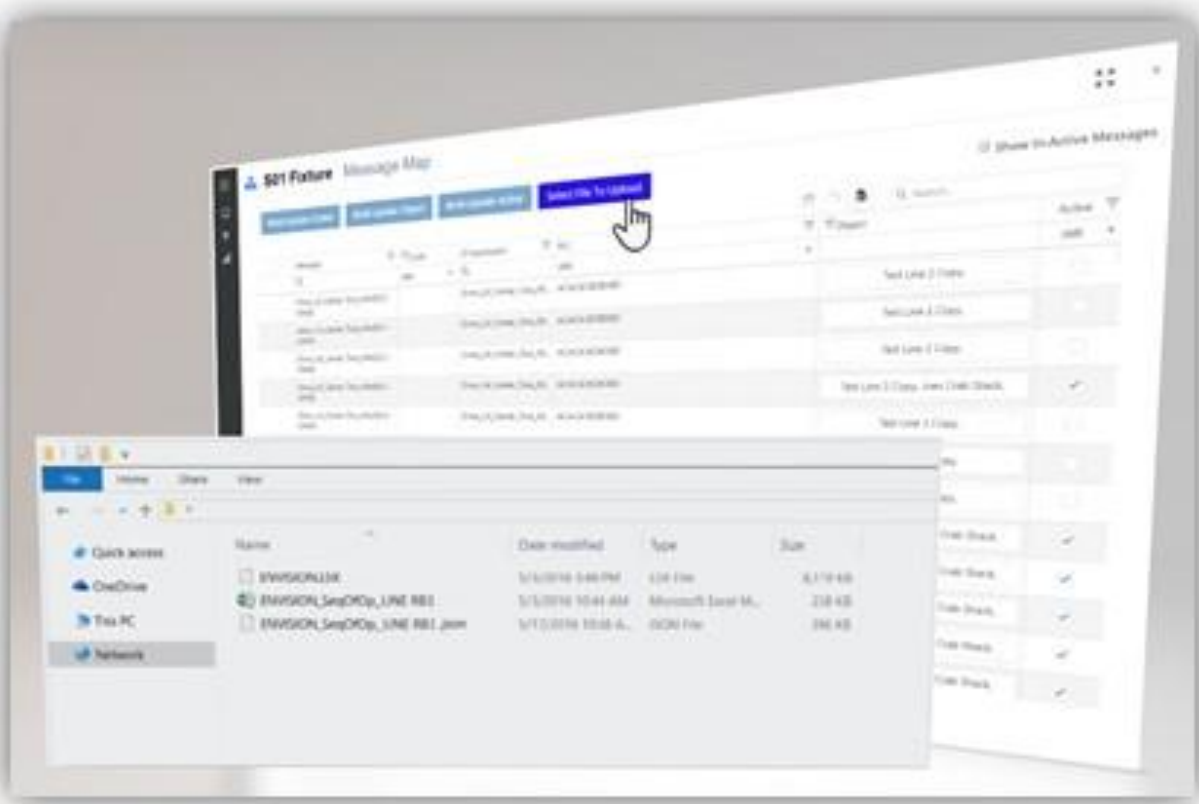
Select the Manage Message Map button located under the Admin tab of the Right-Side menu.



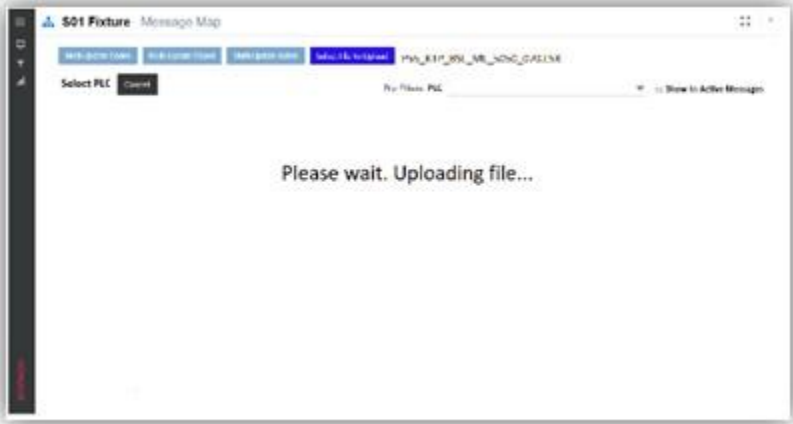
The enSight window will reload to the Message Map window. From here, click on the Select File to Upload button to open the File selection window.



Select the file (L5X) you want to Upload to your source file.



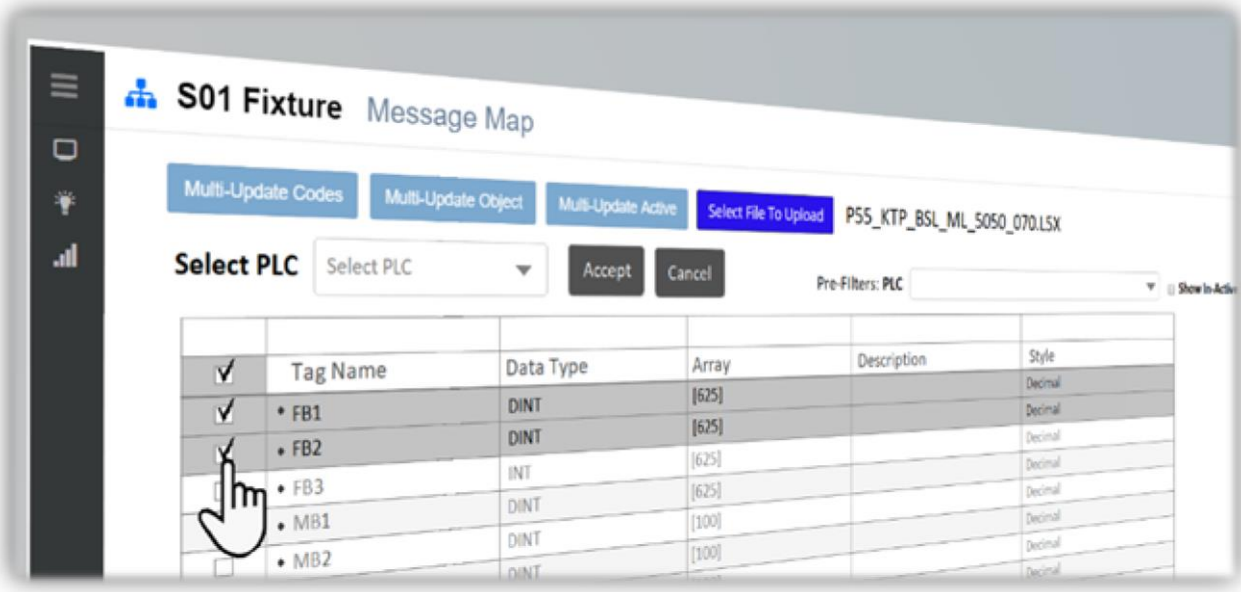
Once the file is selected, the window will show a message "Please wait. Uploading file..."





It will load all the tags from the PLC and send to the user, so that the user may select the messages that are desired to be downloaded to the PLC.

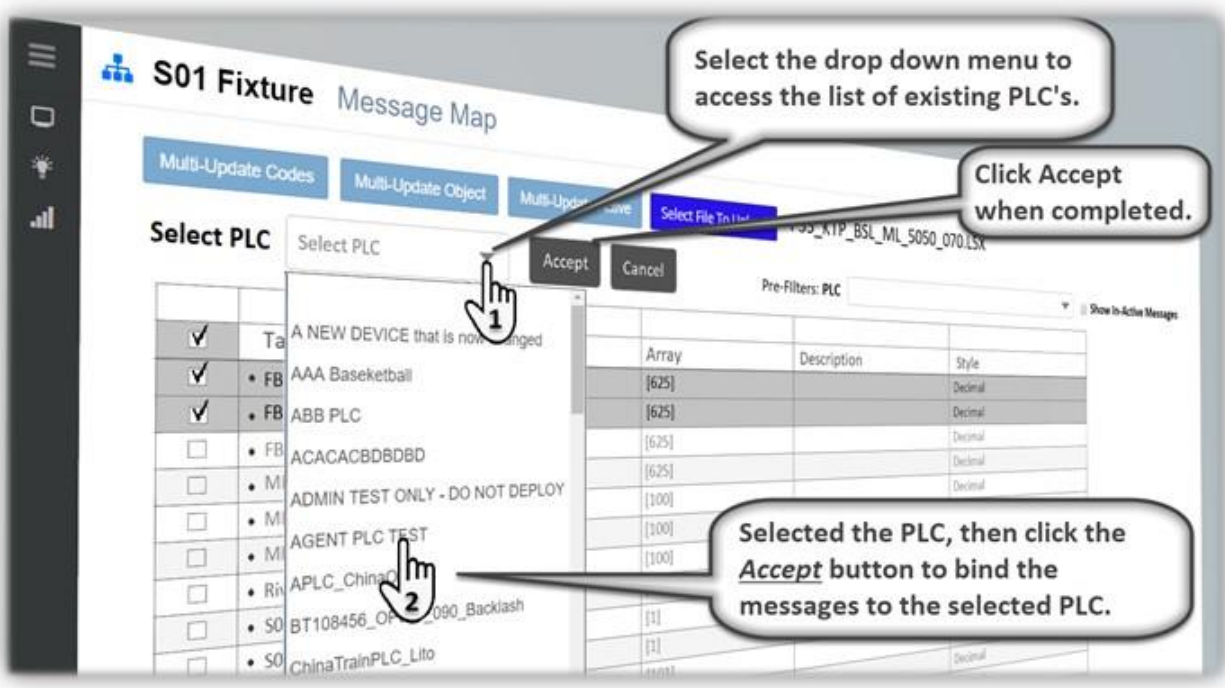
Select the messages to bind to the PLC. Once all the selected messages are completed. Review your selection before proceeding on to the PLC selection.



Once all the messages are selected, you can now select the PLC that you may bind them to. Go to the Select PLC selection box and click on the drop-down menu.

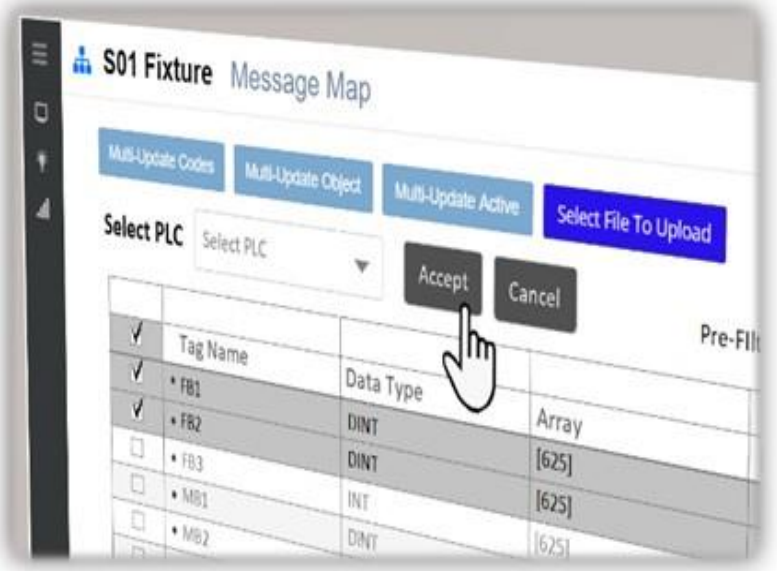


This will reveal a list of existing PLCs. Make a selection of one of the PLC's from the list. After your selection, click on the Accept button to bind the selected messages to the selected PLC. This may take a few moments depending on the amount of messages to bind to the PLC.



When it is finished, it will display a small black box with a message reading **“Notice. enSight messages successfully created!”**

**Notice.**  
enSight messages successfully created!



## Realtime Cyclelength Tab

- [History](#)
- [Message History Tab](#)
- [Table View](#)
- [Timeline](#)
- [Pivot](#)

Cyclelength tab shows an updating table with the last 5 cycles down to the group level. Along with the last 5 cycles, it displays the cycles statistics shown including the number of Last Cycle Date, good count, over cycles count, average cycle length, minimum, and maximum cycle length.

You can Collapse all the selected objects down to the station by using the collapse button or you can expand all the stations out to the group level, along with filtering of the station and asset level.

You can also close the side menus and click the full screen button to fully open the display window.

## History

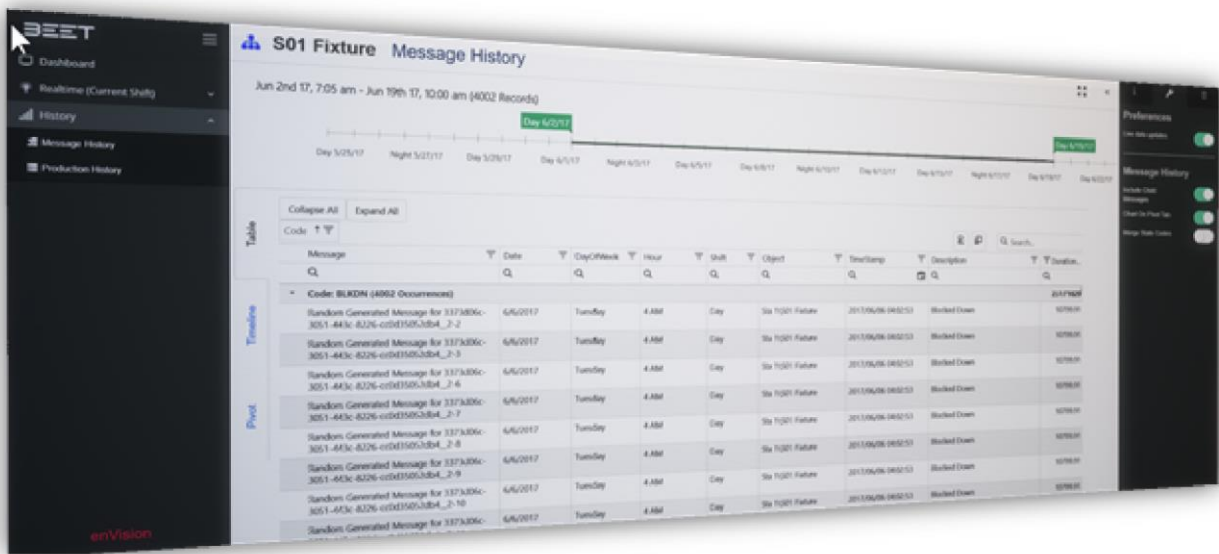
- [Message History Tab](#)
- [Production History](#)

### Message History Tab

In the history tab, therein lies the message history and the production history. The Message History tab has two tabs available, the Table tab and the Timeline tab. You can use the Range filter (Date/Shift) to specify the time range desired.

#### Table View

Displays all messages for the shifts selected in the Range filter.



The message information includes the Date, Day of Week, Hour, Shift, Object, Code, Timestamp, and Duration in seconds. The data on the table can be filtered and sorted by using the filters at the top of each column or you can drag and drop the column header to the sorting line to sort the data by the selections made. This example shows the table is sorted by the code column.

### S01 Fixture Message History

Jun 2nd 17, 7:05 am - Jun 19th 17, 10:00 am (4002 Records)

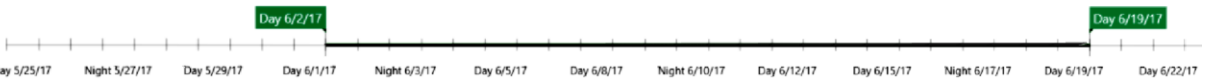
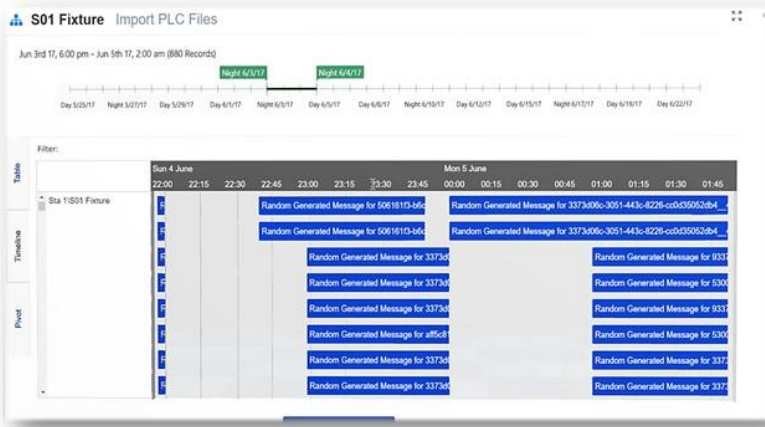


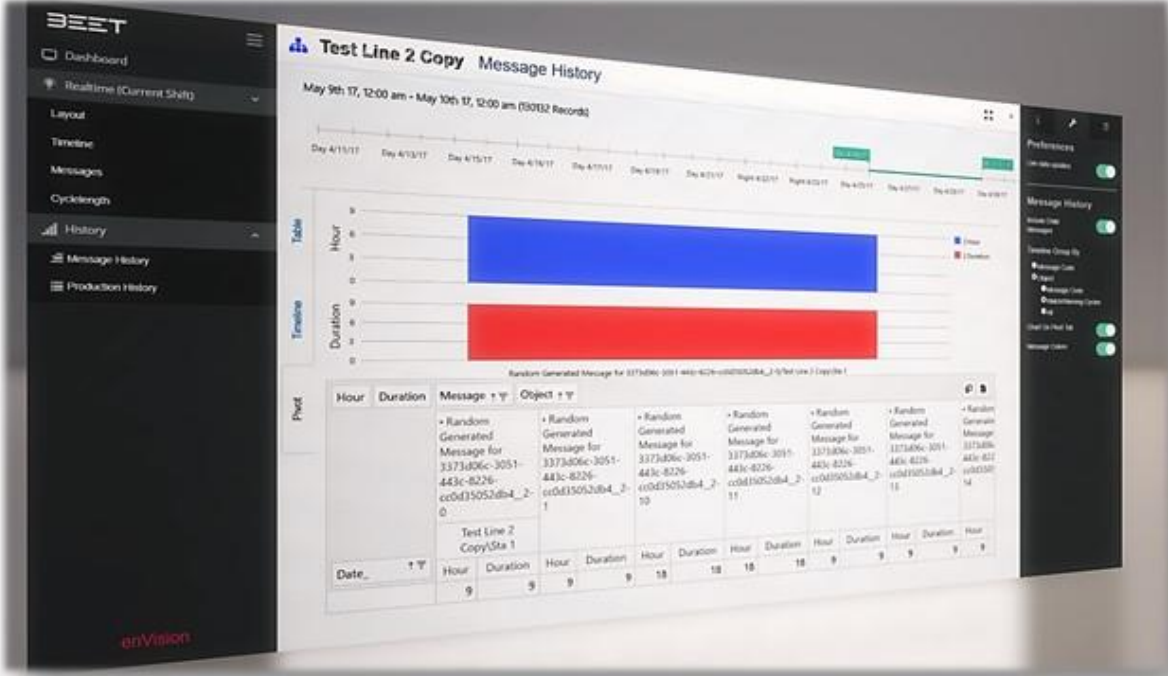
Table		Collapse All		Expand All		Code		Search...	
Message	Date	DayOfWeek	Hour	Shift	Object	TimeStamp	Description	Duration...	
<b>Code: BLKDN (4002 Occurrences)</b>									<b>25171629</b>
Random Generated Message for 3373d06c-3051-443c-8226-ccd35052db4_2-2	6/6/2017	Tuesday	4 AM	Day	Sta T\S01 Fixture	2017/06/06 04:02:53	Blocked Down	10799.91	
Random Generated Message for 3373d06c-3051-443c-8226-ccd35052db4_2-3	6/6/2017	Tuesday	4 AM	Day	Sta T\S01 Fixture	2017/06/06 04:02:53	Blocked Down	10799.91	
Random Generated Message for 3373d06c-3051-443c-8226-ccd35052db4_2-6	6/6/2017	Tuesday	4 AM	Day	Sta T\S01 Fixture	2017/06/06 04:02:53	Blocked Down	10799.91	
Random Generated Message for 3373d06c-3051-443c-8226-ccd35052db4_2-7	6/6/2017	Tuesday	4 AM	Day	Sta T\S01 Fixture	2017/06/06 04:02:53	Blocked Down	10799.91	
Random Generated Message for 3373d06c-3051-443c-8226-ccd35052db4_2-8	6/6/2017	Tuesday	4 AM	Day	Sta T\S01 Fixture	2017/06/06 04:02:53	Blocked Down	10799.91	
Random Generated Message for 3373d06c-3051-443c-8226-ccd35052db4_2-9	6/6/2017	Tuesday	4 AM	Day	Sta T\S01 Fixture	2017/06/06 04:02:53	Blocked Down	10799.91	
Random Generated Message for 3373d06c-3051-443c-8226-ccd35052db4_2-10	6/6/2017	Tuesday	4 AM	Day	Sta T\S01 Fixture	2017/06/06 04:02:53	Blocked Down	10799.91	
Random Generated Message for 3373d06c-3051-443c-8226-ccd35052db4_2-11	6/6/2017	Tuesday	4 AM	Day	Sta T\S01 Fixture	2017/06/06 04:02:53	Blocked Down	10799.91	

## Timeline



## Pivot

The Pivot dashboard item displays a cross-tabular report that presents multi-dimensional data in an easy-to-read format. It also incorporates a configurable graph above the Pivot table.



To add, edit, or delete parameters to change your pivot table, select the Field Chooser icon in the middle right hand side of the browser window, between the pivot table and the graphing areas. Selecting this icon will open the Field Chooser window.

From this window, you can change the content of the Pivot table and graphing area. Simply check the parameters you will include in the pivot table. Then click and hold on the name, then drag it to the Row, Column, Filter, or Data Fields.

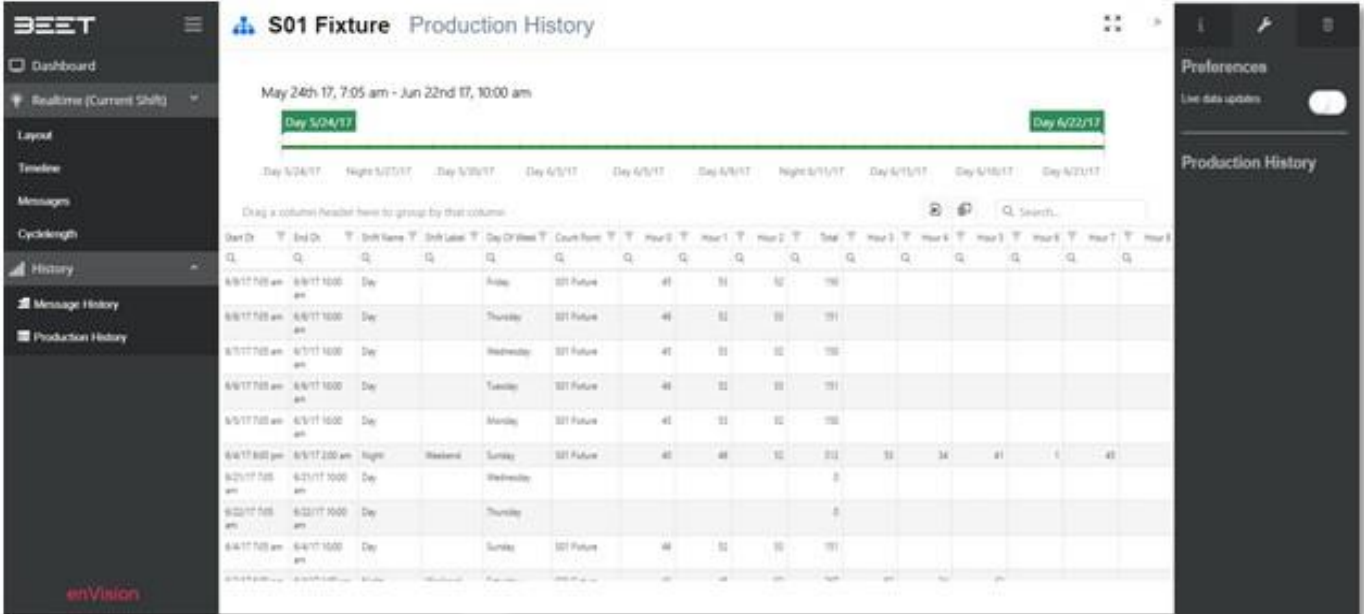
After every change, a loading... icon will appear and changes will take place.

To remove a field, simply click and hold, then drag the parameter out of the field box. It will then show the loading icon, then the screen will update.

To close the Field Chooser window, click the x (close) button in the upper right-hand corner.



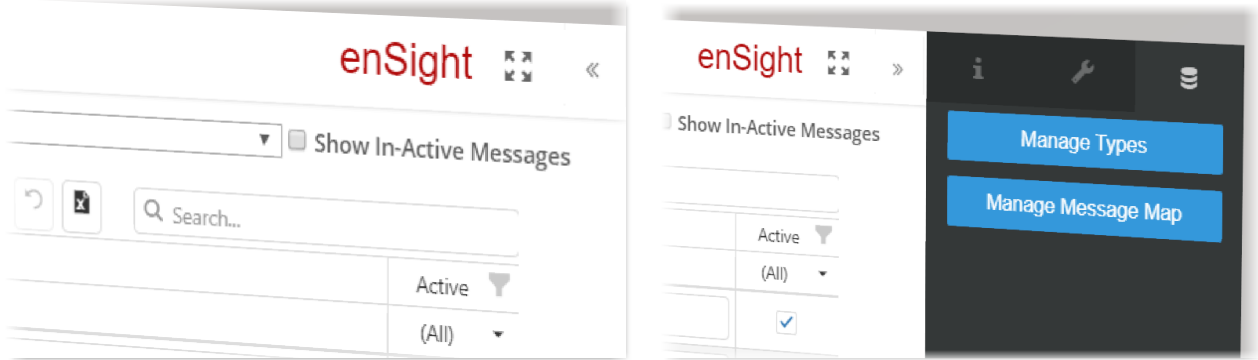




Production History in Full Screen mode.  
 The address and bookmark bars are removed similar to using the F11 Full Screen Mode.

**Adding Messages**

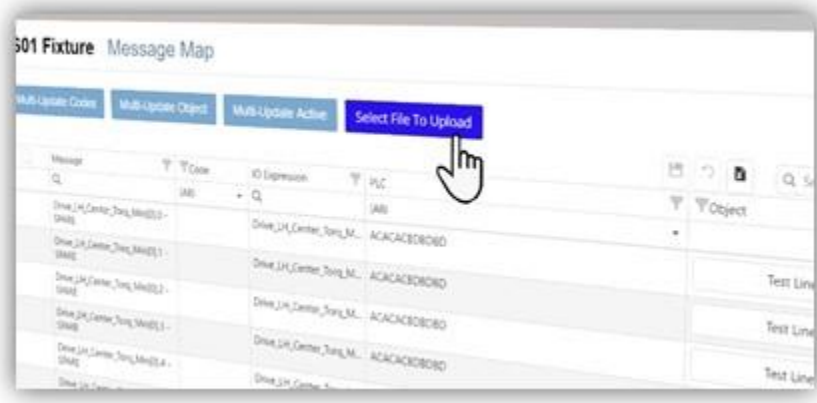
Messages for the PLC’s are in the L5X files which can be loaded into a PLC. Go to the upper right-hand side menu by clicking on the arrows. This action will open the Right-Side Menu and offer you three options to proceed.



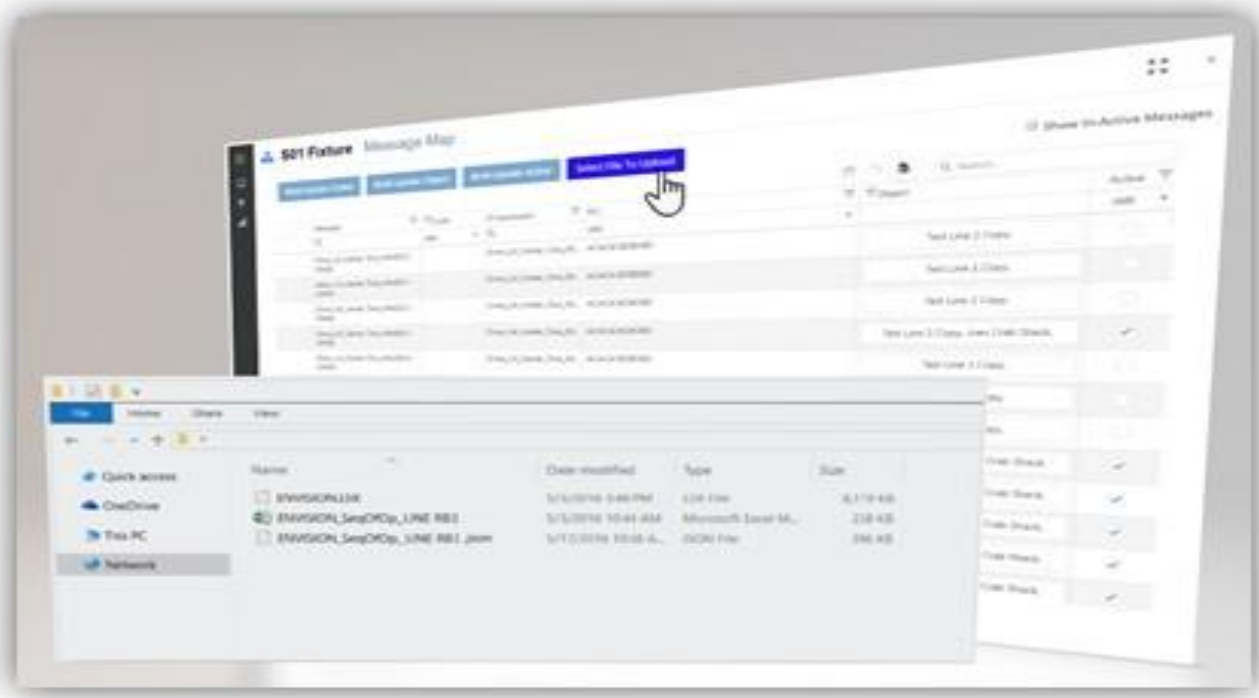
Select the Manage Message Map button located under the Admin tab of the Right-Side menu.



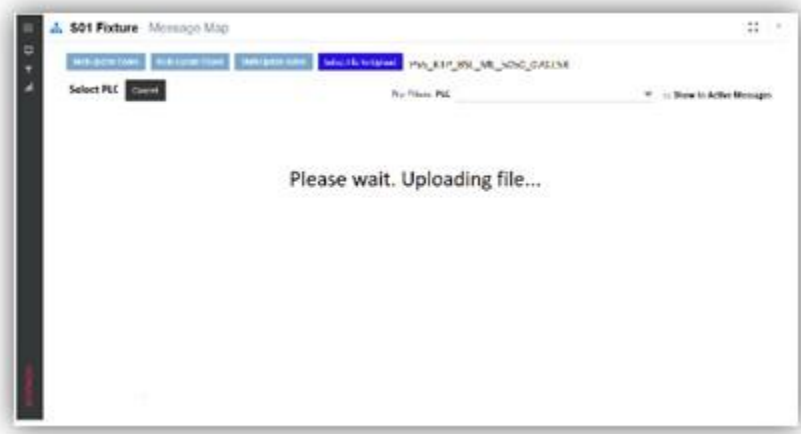
The enSight window will reload to the Message Map window. From here, click on the **Select File to Upload** button to open the File selection window.



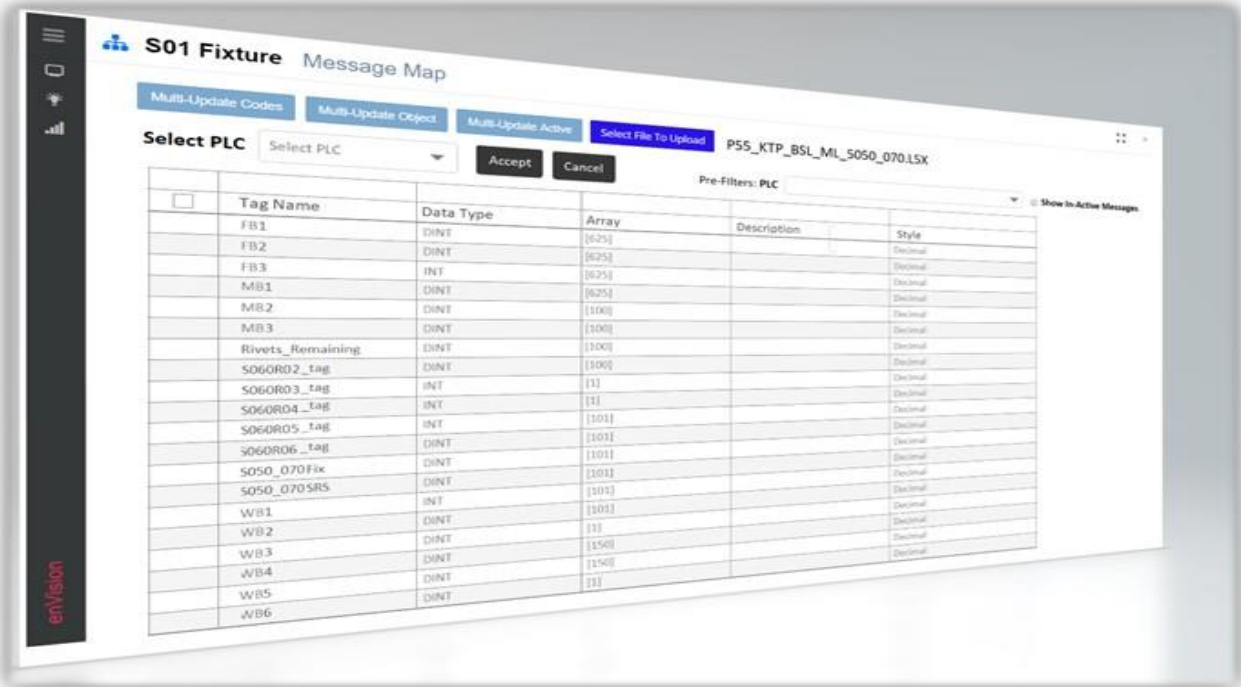
Select the file (L5X) you want to Upload to your source file.



Once the file is selected, the window will show a message "Please wait. Uploading file..."



It will load all the tags from the PLC and send to the user, so that the user may select the messages that are desired to be downloaded to the PLC.



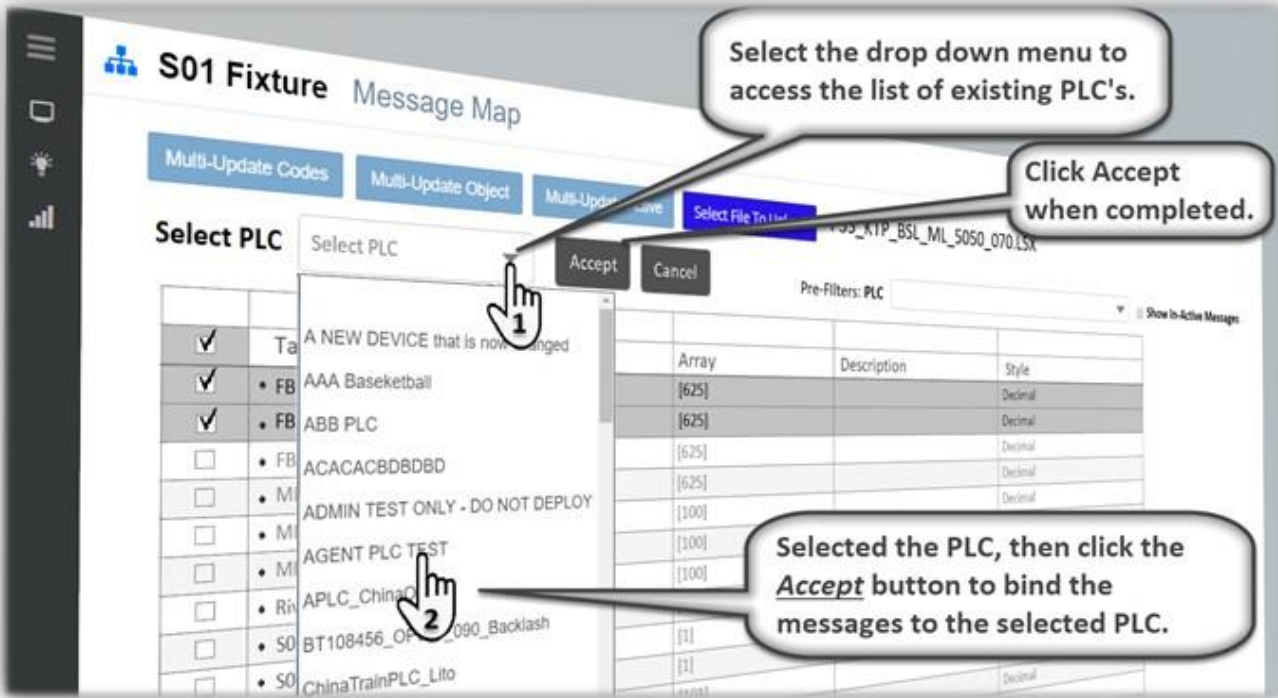
Select the messages to bind to the PLC. Once all the selected messages are completed. Review your selection before proceeding on to the PLC selection.



Once all the messages are selected, you can now select the PLC that you may bind them to. Go to the Select PLC selection box and click on the drop-down menu.

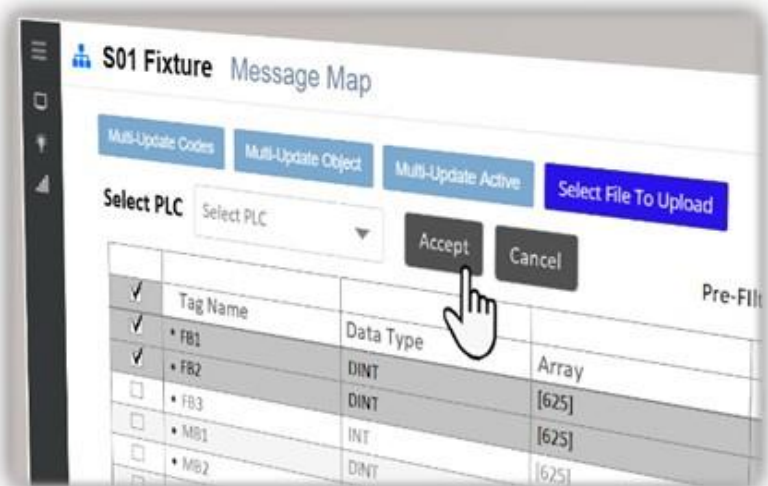


This will reveal a list of existing PLC's. Make a selection of one of the PLC's from the list. After your selection, click on the Accept button to bind the selected messages to the selected PLC. This may take a few moments depending on the number of messages to bind to the PLC.



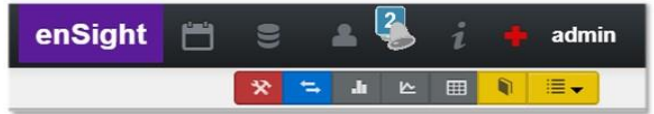
When it is finished, it will display a small black box with a message reading **"Notice. enSight messages successfully created!"**.

**Notice.**  
enSight messages successfully created!



## Conditional Notifications 3.6

At the Asset level, under the notification's icon, you can open the Conditional Notification window. From this window, you can have Notifications sent to you via Text and Email.



**NOTE: The user will need to have the Analyst role to create and maintain Conditional Notifications.**

Though Notification and Subscription are very similar in some ways, there are many differences in the use and functions of these features. Below is a table of comparisons between Dashboard/Report

enVision 3.6 - Comparison Chart		
Feature	Dashboard/Report Subscription	Conditional Notification
Trigger Point	Time based Schedule	When condition based on measure and time window is satisfied. Available measures are: Overcycle - duration in mins or no. of occurrences Blocked State - duration in mins or no. of occurrences Starved State - duration in mins or no. of occurrences Faulted State - duration in mins or no. of occurrences Available Time Windows are: Hour, Shift, Day, 7 Days, and 30 Days
Message Content	Dashboard/Report as attachment, E-mail body and Direct Web Link	Simple text, or dashboard/report when linked to a subscription
Attachments	Dashboard/Report PDF, XLS	Dashboard/Report PDF, XLS only if linked to a subscription
Recipient(s)	Single or multiple e-mail addresses	Single e-mail or phone no. for texts. Multiple e-mails only if attached to subscription
Limit on Number of Messages	Controlled by subscription schedule - no upper limit	Can be adjusted, but usually 25 per day per notification
Object Level	Works at any level	Asset Level Only

## Range (Conditional Note 3.6)

Select the Range you would like to view from Hour, Shift, Day, 7 Days, and 30 days. Each range is a selection of how long the notification duration will be.

The Hour selection will make the notification loop duration last for an hour before recycling. The Shift will be a 10-hour duration. Day will be a 24-hour duration, and so on.

**Range**

Hour
  Shift
  Day
  7 Days
  30 Days

**Condition**

And
  Or

Measure	Accumulated Duration (Min.)	Occurrences
Over Cycle		
Faulted		
Blocked		
Starved		

Text Message

Link to subscription  Email

Close Save

**Range**

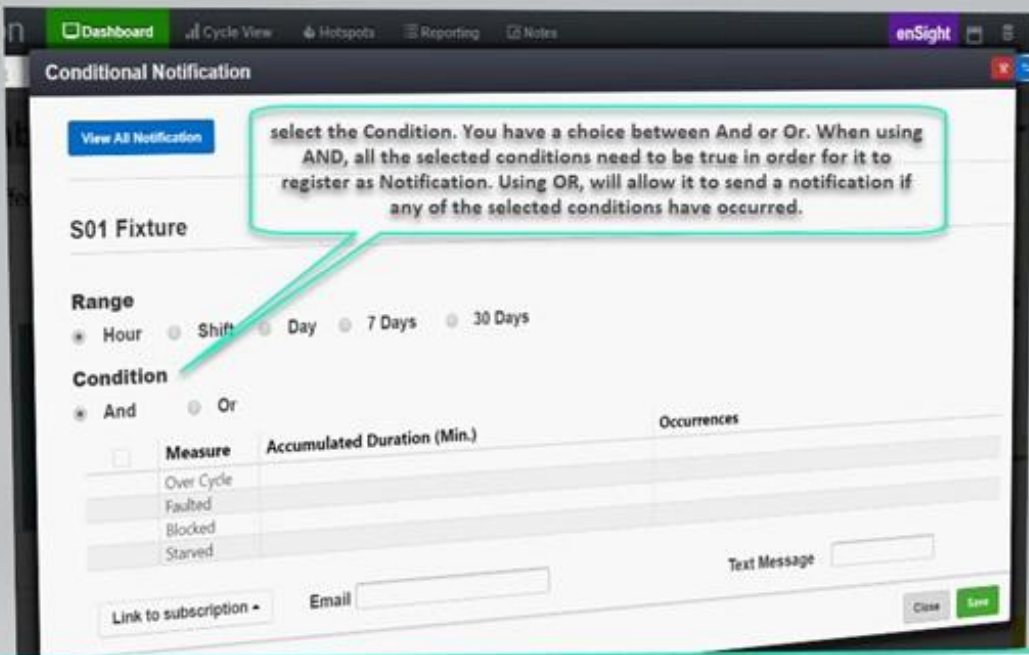
Hour
  Shift
  Day
  7 Days
  30 Days

*Select the Range you would like to view from Hour, Shift, Day, 7 Days, and 30 days. Each range is a selection of how long the notification duration will be. The Hour selection will make the notification loop duration last for an hour before recycling. The Shift will be a 10-hour duration. Day will be a 24-hour duration, and so on.*

## Condition (Conditional Note 3.6)

### Condition

After the Range is set, you can now select the Condition. You have a choice between And or Or. When using AND, all the selected conditions need to be true in order for it to register as Notification. Using OR, will allow it to send a notification if any of the selected conditions have occurred.



**Conditional Notification**

**S01 Fixture**

**Range**

- Hour
- Shift
- Day
- 7 Days
- 30 Days

**Condition**

- And
- Or

<input type="checkbox"/>	Measure	Accumulated Duration (Min.)	Occurrences	Averages Hr.
<input type="checkbox"/>	Over Cycle			00:00 Min. / 0 Occ.
<input type="checkbox"/>	Faulted			00:26 Min. / 4 Occ.
<input type="checkbox"/>	Blocked			00:06 Min. / 26 Occ.
<input type="checkbox"/>	Starved			Min. / 28 Occ.

Text Message:

Link to subscription:  Email:

Buttons: Close, Save

**Callout 1:** select the Condition. You have a choice between And or Or. When using AND, all the selected conditions need to be true in order for it to register as Notification. Using OR, will allow it to send a notification if any of the selected conditions have occurred.

**Callout 2:** Check off the Measures that needs to be monitored. In each measure, there is an Accumulated Duration and Occurrences.

**Callout 3:** Input the values you would like to be monitored.

Check off the Measures that needs to be monitored. In each measure, there is an Accumulated Duration and Occurrences. Input a value you would like to be monitored.

## Email (Conditional Note 3.6)

Input the email address of the recipient of the notification. The recipient will receive an email every time the conditions trigger the notification.

**Conditional Notification**

View All Notification

S01 Fixture

**Range**

Hour  Shift  Day

**Condition**

And  Or

<input type="checkbox"/>	Measure	Accumulated Duration (Min.)	Occurrences
<input type="checkbox"/>	Over Cycle		
<input type="checkbox"/>	Faulted		
<input type="checkbox"/>	Blocked		
<input type="checkbox"/>	Starved		

Link to subscription -  Text Message

Close Save

**Email**

## Text Message (Conditional Note 3.6)

Input the phone number of the recipient of the notifications. The recipient will receive a text message every time the conditions trigger the notifications.

However, there are a few limitations for using the text messaging feature:

There is a **25 text\*** message limit per day on one notification. Once it reaches 25 notifications, it will no longer send any more until the next day. This is controlled by the administrator. It can be increased if need be. The emails, however will keep being sent. Note: in the text message, there is an option to text STOP to halt the sending of the notifications via texting. This feature can be used once then restored. If it is used a second time, then it will not send any more until the next day. You can go back and edit the Conditional Notification to have it restart if needed.

**Text Messages**  
Input the phone number of the recipient of the notifications. The recipient will receive a text message every time the conditions trigger the notifications.

**Text Message** (555) 555 - 5555

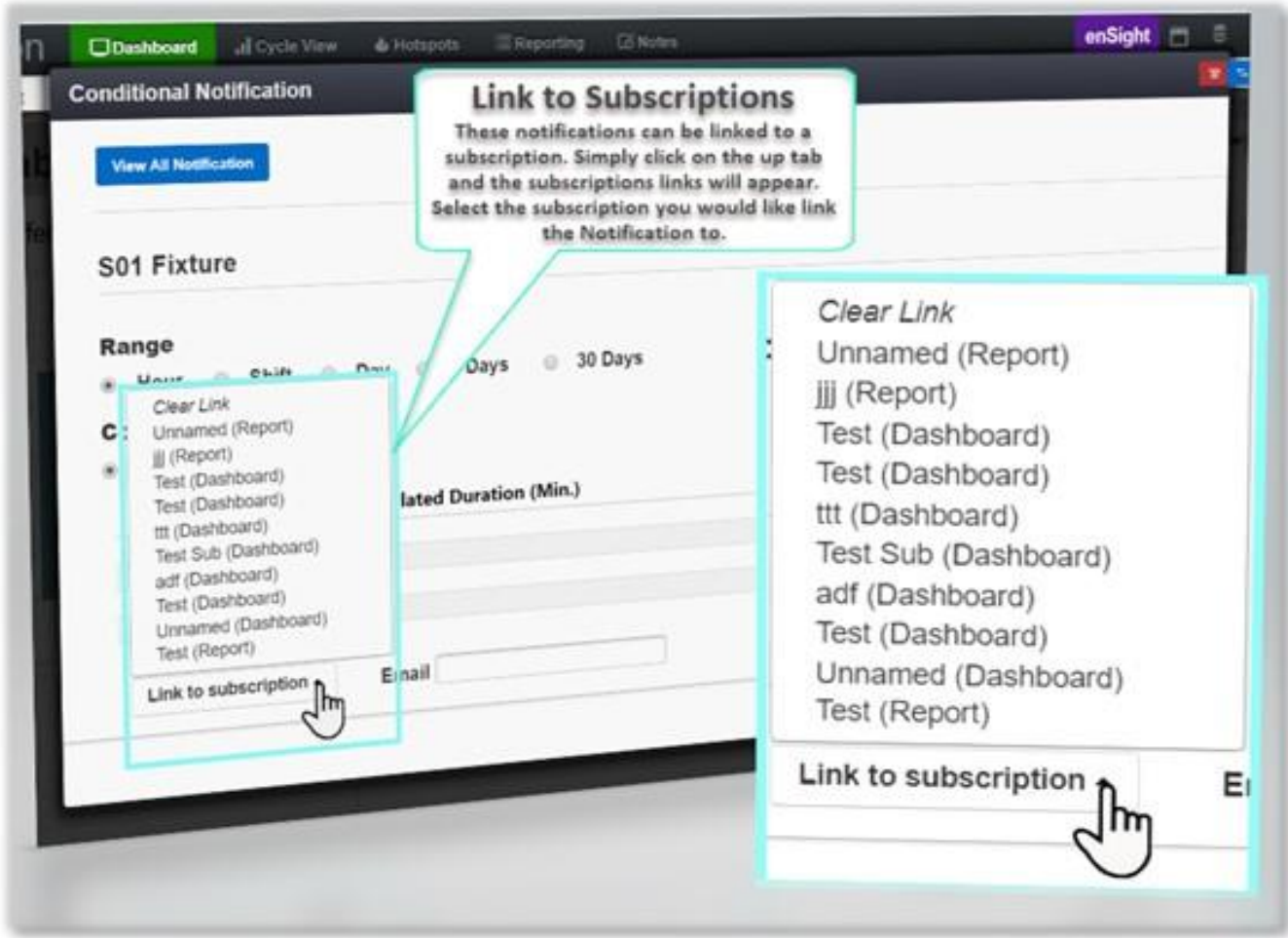


## Link to Subscriptions (Conditional Note 3.6)

### Link to Subscriptions

These notifications can be linked to a subscription. Simply click on the up tab and the subscriptions links will appear. Select the subscription you would like link the Notification to.

Once set, it will send the notification of the selected Report, Dashboard, etc. to the recipient via email or text message.



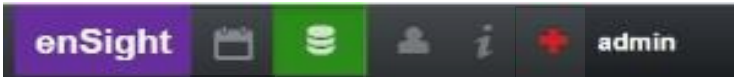
NOTE: Users need to have the Analyst role to create and maintain Conditional notifications.

# System Health Monitor 3.6



The enVision browser now has a System Health Monitor. It is in the upper right-hand corner on the Top Navigation Menu. It is utilized by simply clicking on it.

It will open the System Health window. This may take a moment to load. When it finishes loading, it will display a section for EAS (enVision Application Server) and an EDC (enVision Data Collector).



# EAS Monitor 3.6

In the EAS section, it will have multiple displays. From left to right, it will display the EAS CPU Usage, EAS Memory Usage, and EAS Disk Space. The EAS Disk space may have several drives present, depending upon the demand of the system used.

**In the EAS section, it will have multiple displays.**

**The EAS Disk space may have several drives present, depending upon the demand of the system used.**

**From left to right, it will display the EAS CPU Usage, EAS Memory Usage, and EAS Disk Space.**

**System Health**

**EAS**

**EAS CPU Usage** (0-100)

**EAS Memory Usage** (0-240000)

**EAS Disk Space C:\** (0-400000)

**EAS Disk Space E:\** (0-600000)

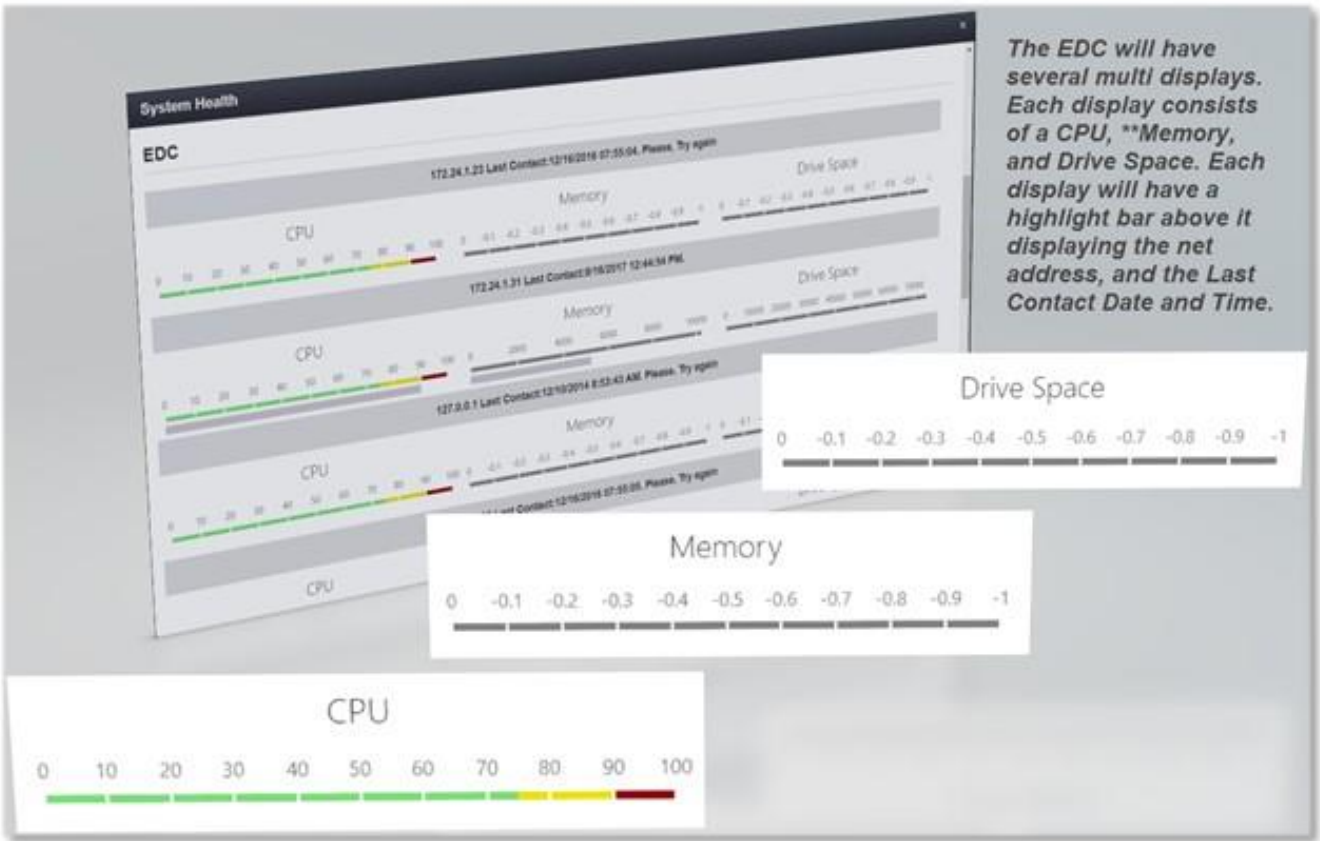
**EAS Disk Space F:\** (0-400000)

**EAS Disk Space G:\** (0-600000)

**EAS Disk Space H:\** (0-280000)

# EDC Monitor 3.6

The EDC will have several multi displays. Each display consists of a CPU, \*\*Memory, and Drive Space. Each display will have a highlight bar above it displaying the net address, and the Last Contact Date and Time.





## Glossary

- **AOI**  
Add On Instructions
- **CE**  
Collector Engine
- **COS**  
Change of State
- **EAS**  
Envision Application Server
- **EDC**  
Envision Data Collector
- **xls**  
Excel spreadsheet
- **FIS**  
Factory Information System
- **OP**  
Operation
- **OPC**  
OLE Process Control
- **OEE**  
Overall Equipment Efficiency
- **PB**  
Push Button
- **PLC**  
Programmable Logic Controller
- **SSL**  
Secure Socket Layer
- **SMTP**  
Simple Mail Transfer Protocol
- **UID**  
Unique Identifier
- **VPS**  
Virtual Private Server



# Product Support

## Standard Support

Every licensed Envision user is entitled to: 60 days of free email-based product support, [support@beet.com](mailto:support@beet.com)

Unlimited access to the on-line support materials available at Beet Analytics Technology support website

<http://support.beet.com>

Critical bug fix updates for the version of software purchased.

## Service Maintenance Level Support

### Submitting Suggestions and Reporting Issues

Every licensed user who holds an active service maintenance contract for Envision is entitled to: Unlimited email based support for the duration of the subscription license [support@beet.com](mailto:support@beet.com)

Unlimited access to the on-line support materials available at Beet Analytics Technology support website

<http://support.beet.com>

Critical bug fix updates for the version of software purchased

Product enhancement updates for the duration of the service maintenance contract

If you wish to make a suggestion or report an issue you have discovered using **Envision**, you can do so using our support website <http://support.beet.com>. Alternatively, you can email Beet Analytics Technology Support at [support@beet.com](mailto:support@beet.com)

The amount of information you can provide us with about the nature of a problem you are having will directly affect our ability to resolve it. The more information you can provide about your environment, the steps to reproduce and any other relevant information the better – *please be verbose!*



# Trouble Shooting

See the Product Support section for available content at Beet Analytics Technology support website:  
<http://support.beet.com>

For more information or questions, go to the Envision Customer Knowledge Base website:  
<https://docs.beet.com/display/EKB/Envision+Customer+Knowledge+Base>

See Troubleshooting articles on the Envision Customer Knowledge Base website:  
<https://docs.beet.com/display/EKB/Troubleshooting+articles>



# License and Copyright

## License and Copyright

### License Agreement

**IMPORTANT!** Do not install this SOFTWARE before you have read this license agreement. By proceeding to install this SOFTWARE you are indicating your acceptance of all the terms and conditions stated in this agreement.

#### 1. License Agreement

1.1 License Grant Beet Analytics Technology grants Licensee a non-exclusive, non-transferable (except as expressly permitted herein) license, solely for its internal business operations, to: a) Make and install the necessary number of copies of the applicable Licensed Software; b) Use the executable form of the software in the United State for the purpose of processing Licensee's own internal; c) Allow its authorized users to access and use the Licensed Software; d) Make one copy of each Licensed Software for back-up purposes.

This license is effective upon the Effective Date of the License and is subject to all the terms of this EULA. Licensee agrees to operate the Licensed Software in accordance with the terms and provisions of this EULA, the applicable Licensed Software terms in the Quote and to ensure that its Users comply with these terms. License keys or license tokens do not themselves grant the legal right to use the Licensed Software. Certain Licensed Software may either contain third party software components or may be third party software products to which certain Specific Terms for Third Party Software apply. Except as is expressly set forth in this EULA, no other express or implied right or license is granted to Licensee.

1.2 License Type Definitions the following License Types may be offered with respect to individual Software products or product families. The License Type will be specified in a Quote or similar ordering document provided by Beet Analytics Technology. (a) "Concurrent User" licenses means that access to the Software at any given moment will be limited to the maximum number of concurrent users for whom licenses have been validly acquired under this Agreement. (b) "Named User" licenses means that access to the Software will be restricted to those individuals within Licensee's organization that are named by Licensee and for whom licenses have been validly acquired under this Agreement. Licensee shall have the right to change Named User licenses provided that no individual Named User license may be changed more than once every thirty (30) days. Licensee agrees not to: (a) use the Licensed Software to develop software applications for use by or distribution to any third party, whether in whole or part.

1.3 License Limitations Licensee agrees not to: (a) use the Licensed Software to develop software applications for use by or distribution to any third party, whether in whole or part, whether as standalone products or as components; (b) rent, lease, sublicense, perform or offer any type of services to third parties relating to the Licensed Software, including but not limited to, consulting, training, assistance, outsourcing, service bureau, customization or development unless specifically authorized in the applicable Licensed Software terms; (c) correct errors, defects and other operating anomalies of the Licensed Software; (d) modify (except as permitted and described in the Documentation), adapt, reverse engineer, decompile, disassemble, or otherwise translate all or part of the Licensed Software; (e) provide, disclose or transmit any results of tests or benchmarks related to any Licensed Software; (f) use any software that may be delivered with the Licensed Software other than the Licensed Software ordered hereunder.

#### 2. Software Maintenance Services

2.1 Software Maintenance. Software maintenance services consist of (a) the provision of Software updates, (b) the provision of Error corrections, as defined herein, for the Software, and (c) the provision of telephone support in connection with the Software. Software maintenance services will be provided in accordance with the terms of this Schedule to those customers who have purchased maintenance services under this Agreement for the applicable Software. Software maintenance services





are, and will continue to be, available under this Agreement only to the extent that these services are made available by Beet Analytics Technology with respect to the Software, or any portion of the Software, to its customer base in general.

2.2 Maintenance Term. Licensee may purchase Software maintenance services for an initial annual maintenance term or such other time period that is acceptable to Beet Analytics Technology. Thereafter, maintenance services will automatically renew for successive one (1) year terms unless terminated by Licensee by providing notice of termination in writing to Beet Analytics Technology at least 60 days prior to the expiration of the initial term or any renewal term. Beet Analytics Technology will provide Licensee a written maintenance quotation for each subsequent maintenance term 90 days in advance of the expiration of the then current maintenance term. If Licensee purchases additional Software licenses during the term of this Agreement, Beet Analytics Technology reserves the right to adjust the annual maintenance term and pro rate the annual maintenance fees for such add-on Software to be coterminous with the initial Software maintenance term and billing cycle.

2.3 New Releases of Software. New versions of the Software released by Beet Analytics Technology may contain Error corrections and/or new or enhanced functionality. A new version may be either a point release denoted by a change to the right of the first decimal point (e.g. V2.0 to V2.1) (a "Point Release") or a major release denoted by a change to the left of the first decimal point (e.g. V2.0 to V3.0) (a "Major Release"). A Point Release will generally consist of corrections to known Errors. A Major Release will generally consist of a new version of the Software that contains new or enhanced functionality. Licensee shall have the right to receive new Point Releases and new Major Releases of the Software that are released to Beet Analytics Technology's customers in general during any period of time for which Licensee has purchased maintenance services under this Agreement for the applicable Software. This right does not extend to any release, module, option, future product, or any upgrade in functionality or performance of the Software which Beet Analytics Technology develops as a customized product for a single customer or that Beet Analytics Technology develops and licenses as a separate product and not for release to customers in general as part of maintenance services. Licensee is responsible for the installation and implementation of any new version and any required data conversion. Licensee remains solely responsible for the configuration of its own equipment and software, including the compatibility of any additional equipment or software with the Beet Analytics Technology Software.

2.4 Support for Prior Versions of the Software. Once a new version of the Software is released, either a Point Release or a Major Release, Beet Analytics Technology will maintain the current version it just released and the most current Point Release that relates to the immediately preceding Major Release. For example, if V2.1 is released, Beet Analytics Technology will maintain V2.1 and V1.x, where x is the latest Point Release in the V1 series. If a known Error has been corrected in an update to the prior Major Release, Beet Analytics Technology retains the right to require the Licensee to upgrade to the requisite Point Release that contains the Error correction rather than providing a separate patch or workaround.

2.5 Error Corrections. An Error means the failure of the Software to conform substantially to the Documentation ("Error"). Licensee may report any suspected Error to Beet Analytics Technology and, upon Beet Analytics Technology's request, Licensee will provide Beet Analytics Technology with a detailed, written description and documentation of the suspected Error. Beet Analytics Technology will investigate the facts and circumstances related thereto and Licensee will cooperate with Beet Analytics Technology's investigation. If Beet Analytics Technology finds that the Software contains an Error, Beet Analytics Technology will use all commercially reasonable efforts to correct the Error. An Error correction may consist of a separate patch, a workaround or it may be included in the next available Point Release or Major Release of the Software, at the discretion of Beet Analytics Technology. If Beet Analytics Technology cannot provide an Error correction as defined above, after being notified of the Error by Licensee, Licensee may terminate the software maintenance and receive a refund under Section 7 below.

2.6 Telephone Support. Licensee shall have the right to receive telephone support in connection with the Software by calling the toll-free number provided by Beet Analytics Technology between the hours of 8:00 am and 5:00 pm, in local time zones of the contiguous United States, Monday through Friday, except on holidays recognized by Beet Analytics Technology. Licensee will also be provided with the ability, by means of an electronic channel via the Internet, to log Software support requests, report suspected Errors, monitor progress on the Licensee's prior requests, download Software fixes and workarounds, exchange information on a bulletin board, and obtain access to release notes and other Software information.



2.7 Limitation of Remedies. Beet Analytics Technology's sole and exclusive responsibility, and Licensee's sole and exclusive remedy, for a failure to provide error corrections for the Software in accordance with this Schedule will be that Licensee may terminate Software maintenance for the Software involved. Beet Analytics Technology will thereafter Promptly refund the unused portion of the fees paid for the remainder of the then current term of the Software maintenance services for the applicable Software.

2.8 Initial and Renewal Fees. Purchase of Software maintenance services for a Licensee site will be subject to the purchase of such services for all Beet Analytics Technology supported Software modules licensed for use at that site. The fees for Software maintenance services will be set forth on Beet Analytics Technology's quotation for such services. For each of the first two renewal terms following the initial term, Beet Analytics Technology may adjust the Software maintenance fees provided that: (i) Beet Analytics Technology provides written notice to Licensee at least 60 days prior to the end of the then current term, (ii) the fee adjustment becomes effective upon expiration of the then current term, and (iii) the percentage of the fee adjustment does not exceed three percent (4%) per year. Following the first two renewal terms, Beet Analytics Technology's ability to increase maintenance prices shall not be subject to the cap or notice period requirements Licensed Software Maintenance Services automatically renew on an annual basis unless terminated in accordance with the provisions of Section 7.4. The obligation to provide Software Maintenance Services shall be undertaken by Beet Analytics Technology or a Beet Analytics Technology authorized service provider.

### 3. Orders, Delivery and Payment

3.1 Orders. Licensee may order from Beet Analytics Technology Licensed Software and related Software Maintenance Services under this EULA, by issuing an Ordering Document. Licensee agrees that the terms and conditions of this EULA shall apply to all such Ordering Documents, Licensed Software and Software Maintenance Services ordered thereunder.

3.4 Payment Terms: a) In consideration of the rights, licenses and services provided hereunder, Licensee shall pay Beet Analytics Technology the charges applicable to each license of a Licensed Software at the price identified in the applicable Quote. Unless otherwise agreed to in writing by Beet Analytics Technology, (i) all charges will be invoiced upfront and (ii) Licensee shall pay all invoices by within thirty (30) days from invoice date. b) Late Payments. Licensee shall pay interest for late payment at a rate of 1.5% per month or highest lawful rate on all sums unpaid at the due date, plus reasonable attorneys' fees and costs incurred by Beet Analytics Technology in collecting unpaid amounts. c) Taxes. All prices are exclusive of taxes. Licensee shall be responsible for payment of any and all taxes, duties, excises, import VAT or similar charges of any nature whatsoever, now in force or enacted in the future, that are levied, assessed, charged, withheld, or collected for or in connection with Licensed Software and/or in relation to the transfer or usage provided hereunder or otherwise arising in connection with this EULA, but excluding taxes based on Beet Analytics Technology net income. If Licensee is or may be required under any law or regulation of any governmental entity or authority, domestic or foreign, to withhold or deduct any portion of any payment due to Beet Analytics Technology pursuant to this EULA, then the sum payable to Beet Analytics Technology will be increased by the amount necessary to yield to Beet Analytics Technology an amount equal to the sum it would have received had no withholdings or deductions been made. Licensee shall indemnify Beet Analytics Technology against any losses or costs incurred by Beet Analytics Technology due to any failure of Licensee to make such deduction or withholding.

3.3 Delivery. Beet Analytics Technology will deliver to Licensee the Licensed Software ordered hereunder, or make the Licensed Software available electronically. Electronic delivery will be made by posting the Licensed Software ordered by Licensee on Beet Analytics Technology's site and providing Licensee with a user name, password, and instructions for accessing and downloading the Licensed Software from such site. Licensee is responsible for accessing Beet Analytics Technology's site and downloading the Licensed Software. Licensed Software ordered by Licensee from Beet Analytics Technology shall be delivered FCA (Incoterms 2000) at Beet Analytics Technology's premises identified in Beet Analytics Technology's Quote.

### 4. Intellectual Property



4.1 Ownership: Beet Analytics Technology and/or its suppliers retain ownership in all intellectual property rights in the Licensed Software and all modifications, enhancements or other derivative works thereof. The Licensed Software are licensed, not sold. Licensee shall preserve and reproduce all copyright, patent and trademark notices which appear in the Licensed Software on all partial or integral copies thereof. Licensee recognizes that the methodologies and techniques, contained in or expressed within the Licensed Software are proprietary information or trade secrets of Beet Analytics Technology or its suppliers. Licensee shall treat them as confidential information and not disclose them.

4.2 Intellectual Property Indemnification: Unless provided otherwise in the Specific Terms for Third Party Software, Beet Analytics Technology will defend Licensee against any claims made by a third party that a Licensed Software delivered under this EULA infringes a copyright in any country or a patent of the United States, and shall pay all costs, damages and expenses (including reasonable legal fees) finally awarded against Licensee by a court of competent jurisdiction or agreed to in a written settlement agreement signed by Beet Analytics Technology arising out of such claim, provided that (i) Licensee provides Beet Analytics Technology with prompt written notice of the claim, (ii) Licensee gives Beet Analytics Technology sole control of the defense of the claim and any related settlement discussions and provides reasonable cooperation in the defense and settlement of the claim, and (iii) in the case of a patent infringement, the related patent has been granted as of the date of Licensed Software delivery to Licensee. If a claim is made or in Beet Analytics Technology's reasonable opinion, is likely to become the subject of such a claim, Beet Analytics Technology may at Beet Analytics Technology's expense, either secure the right for Licensee to continue using the Licensed Software or modify it so that it is not infringing, or replace it with another program which is functionally equivalent. If none of the foregoing options is available on terms which are reasonable in Beet Analytics Technology's judgment, Beet Analytics Technology may terminate the licenses to the Licensed Software and, if such licenses are perpetual licenses, Beet Analytics Technology will either refund or provide a credit to Licensee, at Licensee's option, in an amount equal to the corresponding one-time fee paid for the licenses, depreciated on a straight-line over three (3) years upon return or destruction of all copies of the affected Licensed Software as certified by an officer of Licensee. Beet Analytics Technology shall have no obligation to defend or indemnify Licensee against any claim related to (i) any modification of a Licensed Software by anybody other than Beet Analytics Technology, or (ii) the use of one or more Licensed Software in combination with other hardware, data or programs not specified by Beet Analytics Technology, or (iii) the use of corrective patches or Releases other than the most recent one provided by Beet Analytics Technology. This Section 4.2 states Beet Analytics Technology's entire liability and Licensee's exclusive remedy for any claim of infringement of intellectual property rights under this EULA.

## 5. Warranties, Limitations and Disclaimers

5.1 Warranty. Beet Analytics Technology warrants for ninety (90) days from delivery to Licensee that the Release of any Licensed Software will materially conform to its Documentation, provided that it is properly used in the operating environment specified by Beet Analytics Technology. If such Release of the Licensed Software does not conform, Beet Analytics Technology will attempt to make the Licensed Software perform as warranted. Beet Analytics Technology may request Licensee to install a corrective patch or a new Release. If, after sixty (60) days from notice by Licensee of the non-conformity received within the warranty period as defined above, Beet Analytics Technology has not provided a conforming Licensed Software, Licensee's exclusive remedy and Beet Analytics Technology's entire liability for any breach of such warranty is for Licensee to terminate the license related to the non-conforming Licensed Software within thirty (30) days after such sixty (60) day period and obtain a refund of fees paid for such Licensed Software hereunder.

5.2 Disclaimers. TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, THE FOREGOING WARRANTIES ARE IN LIEU OF AND EXCLUDE ALL OTHER WARRANTIES, REPRESENTATIONS OR CONDITIONS FOR THE LICENSED SOFTWARE OR SERVICES, WHETHER EXPRESS OR IMPLIED, INCLUDING, WITHOUT LIMITATION, ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE OR NON INFRINGEMENT. Beet Analytics Technology disclaims any liability for any use or application of any Licensed Software or the results or decisions made or obtained by users of the Licensed Software. Except to the extent required by applicable law, Beet Analytics Technology does not warrant that (i) the functions of Licensed Software will meet Licensee's requirements or will enable it to attain the objectives Licensee has set for itself, or (ii) they will operate in the combination or environment selected for use by Licensee, or (iii) the operation of the Licensed Software will be uninterrupted or free of errors. In all instances, Licensee shall be solely responsible for ensuring that the results produced by Licensed Software comply with quality and safety requirements of Licensee's products or services. No employee or agent of Beet Analytics Technology is authorized to give a greater or different warranty. Licensee shall have exclusive responsibility for



(a) program selection to achieve Licensee's intended results, (b) Licensed Software installation, (c) taking adequate measures to properly test, operate and use each Licensed Software and (d) results obtained there from.

## 6. Limitation of Liability

Each party is independently and exclusively responsible for obligations undertaken by it under this EULA. No party can be held jointly and severally liable with another pursuant to this EULA. No party shall be deemed an agent of another party pursuant to this EULA.

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"..

8.12 U.S. Government Restricted Rights Legend. If Licensee is an agency or unit of the U.S. Government, the Licensed Envision User Manual 11 ©2012 Beet Analytics Technology. All Rights Reserved. Software and the related Documentation are "commercial items," specifically "commercial computer software" and "commercial computer software documentation," and, consistent with FAR 12.212 and DFARS 227.7202, as applicable, are licensed to Licensee only with those rights as are granted pursuant to this EULA. This provision shall survive any termination or expiration of the EULA.

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.

Effective Date of the License means, for any license for a Licensed Software, the latest of the following (i) the date on which such Licensed Software is shipped or made available electronically to Licensee by Beet Analytics Technology or, if applicable (ii) the date on which Licensee is informed by Beet Analytics Technology that the associated license key can be requested or is available. Licensed Software means (i) any data processing program for which a license is ordered by and provided to Licensee pursuant to a Quote, consisting of a series of instructions or databases in machine readable form, (ii) associated Documentation, (iii) corrective patches and (iv) Releases to which Licensee is entitled to the extent it has paid the applicable fees. Licensed Software do not include new versions of a Licensed Software, including any successor product which significantly differs in architecture, user interface or mode of delivery. Ordering Document means the order placed by Licensee and accepted by Beet Analytics Technology. Quote means the final commercial proposal containing a quote for Licensed Software made to Licensee by Beet Analytics Technology. Release means a periodic update of the same version of a Licensed Software if and when made generally available to the market. Specific Terms for Third Party Software means the specific terms relating to certain third party software components or products not developed by or for a Beet Analytics Technology and licensed to Licensee to be used in connection with or within the Licensed Software. Software Maintenance Services means the maintenance, enhancement and other support services referred to in Section 2 hereof.

END OF END USER LICENSE AGREEMENT

Copyright Information



Information in this document, including URL and other Internet Web site references, is subject to change without notice. Unless otherwise noted, the example companies, organizations, products, domain names, e-mail addresses, logos, people, places and events depicted herein are fictitious, and no association with any real company, organization, product, domain name, e-mail address, logo, person, place or event is intended or should be inferred. Complying with all applicable copyright laws is the responsibility of the user. Without limiting the rights under copyright, no part of this document may be reproduced, stored in or introduced into a retrieval system, or transmitted in any form or by any means (electronic, mechanical, photocopying, recording, or otherwise), or for any purpose, without the express written permission of Beet Analytics Technology.

Beet Analytics Technology may have patents, patent applications, trademarks, copyrights, or other intellectual property rights covering subject matter in this document. Except as expressly provided in any written license agreement from Beet Analytics Technology, the furnishing of this document does not give you any license to these patents, trademarks, Envision copyrights, or other intellectual property.

Copyright 2012 Beet Analytics Technology. All rights reserved.

ActiveX, Internet Explorer, Microsoft, Visual Basic, Visual Basic .NET, Visual C# .NET, Visual C++ .NET, Visual Studio, Visual Studio, Windows, Windows 95, Windows 98, Windows 2000, Windows Millennium Edition, Windows .NET server family, Windows NT, Windows XP, Windows Vista and Windows 7 are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.

The names of actual companies and products mentioned herein may be the trademarks of their respective owners.



