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Welcome to Envision

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

Here is some general text for a topic. Replace this with your own content.
More Information

Here is some general text for a topic. Replace this with your own content.
Installation Introduction

Delete this text and replace it with your own content.
Installation

Envision Pilot Checklist
1. Update all hotfixes in Windows and Drivers
2. Update Software/Application
   a. Check/Update Kepware License
   b. Check/Update OPC System License
   c. Check/Update Envision License
3. If there is SAN,
   a. Network Cable from SPA/SPB to Switch
   b. Fiber Cables connect to Server HBAs
   c. Follow SANs Checklist
4. KVM Switch
   a. EAS (Envision Application Server)
   b. EDC (Envision Data Collector)
5. UPS check Battery Condition
6. Connect Monitor/Keyboard/Mouse Console
7. Network Cable from Servers to Switch
8. Network Cable from RSAs to Switch
9. VPN Installed and Tested
10. 200ft of CAT5e Extension cord
11. NEMA L6 20-ft Extension cord
12. 2 IP be able to accessed Internet
13. 1 IP for PLC

Customer Requirements
1. NEMA L6-30R
2. 1-port on PLC
3. 1-port on LAN
4. Loaner Agreement Signed
5. Shipper Document Signed
Software Application

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.
Cycle Browser

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

Location
Make sure you have the cycle view tab selected on the ENVISION top menu.

You can then access the cycle browser by using the Main Tree to navigate to your desired process.

After selecting the desired process, the cycle browser will launch.
Select any cycle from the history view panel on the bottom of the screen to launch your cycle browser heartbeat view.

View Options
Located in the top right corner of your cycle browser are cycle tabs. Below is a list of options you can apply to your cycle view.

<table>
<thead>
<tr>
<th>Object</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>X-Axis</td>
<td>Toggle to suppress or show x-axis labels.</td>
</tr>
<tr>
<td>Baseline</td>
<td>Toggle to suppress or show the &quot;heartbeat&quot; of the machine, represented by the blue line.</td>
</tr>
<tr>
<td>Tolerance</td>
<td>Toggle to suppress or show if the process is in the allowable range to maintain a healthy state.</td>
</tr>
<tr>
<td>Bottle Neck</td>
<td>Toggle to suppress or show if the processes are in constraint points of the machine sequence.</td>
</tr>
</tbody>
</table>

Object Properties

Located in the top left of the cycle browser are your object’s properties:
Model, AGV, Part, Cycle Number, Cycletime, and time data is can all be located here:

View Types
Located in the top right of your cycle browser are a list of different views to choose from.

You can select any tab to access the view type you want.
<table>
<thead>
<tr>
<th>View</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heartbeat</td>
<td>The default view in the cycle browser window.</td>
</tr>
</tbody>
</table>

Show the variance to design time of every sequence group.

Show the sequence of operation view of the object cycle.
Cycle History

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 a process in sequence across a preset date range.

Color Code

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

<table>
<thead>
<tr>
<th>Color</th>
<th>Usage</th>
<th>Color</th>
<th>Usage</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Normal, Optimum Performance Range</td>
<td>5</td>
<td>Missing Data due to Stoppage or Missing Inout/Output</td>
</tr>
<tr>
<td>2</td>
<td>Watch, Not Optimum but Within Defined tolerance window</td>
<td>6</td>
<td>Design Time Line Color, The Optimum Value.</td>
</tr>
<tr>
<td>3</td>
<td>Warning, Outside Defined Tolerance Window</td>
<td>7</td>
<td>Object is inactive or actual cycle length is zero</td>
</tr>
<tr>
<td>4</td>
<td>Fault</td>
<td>8</td>
<td>Selected Object or Cycle</td>
</tr>
</tbody>
</table>
Make sure you have the cycle view tab selected on the ENVISION top menu:

![ENVISION Top Menu]

Using the Main Tree navigate to the process you would like to see cycle information for:

![Main Tree]

Selecting your process will launch the cycle browser. The cycle history module is located in the bottom portion of the cycle browser.
History Filter Options

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

<table>
<thead>
<tr>
<th>Object</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>![Filter Icon]</td>
<td>Select the cycle history view you want.</td>
</tr>
<tr>
<td>![Filter Variants Icon]</td>
<td>Filter various types of cycle statuses from your cycle history view.</td>
</tr>
<tr>
<td>![Cycle Trend Icon]</td>
<td>Toggle cycle trend line.</td>
</tr>
<tr>
<td>![Collapse Icon]</td>
<td>Collapse cycle history view.</td>
</tr>
</tbody>
</table>

Cycle Date Options

A list of cycle date options is located in the top left corner of the bottom window.
You can also select the date tab on the left to access a calendar that can be used to view any date range.

Simply select the year, month and date to be included in the range.

**Cycle History View types**

You can select different view types in the cycle history options tab.
View Type | Description
---|---
Standard Cycle View | Each bar represents a cycle for the selected process.
Variance View | See the variance for each cycle.
Table Tab | Data for each cycle presented in a table.
Pop-out Table | Printable pop-out version of the cycle table.

**Cycle History Day View**

Use the date panel in the cycle history browser to access the day view for your process.
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 break down for:

Doing so will reveal a graph with bars representing each cycle in the selected hour:

Selecting the variance tab: will reveal history day view variance data:

Cycle History Higher Level View

Overview
You can view cycle history for objects at levels higher than asset or group. Simply double click any 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 select the State Duration tab 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:
Dashboard Overview

When you log into Envision you will be greeted by the dashboard screen.

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

Overview

The hotspot module displays the list of motions that accumulate the variances over a period of time. 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.

Navigation

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

Once you have chosen your process 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 an the number of overcycle occurrences that occurred for the process in a given hour on a given day.
Hotspot Options

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.
Variance

Use the Variance Accumulation tab located in the right corner of the module for the variance view.

The Variance view of the module lets you see the amount of overcycle variance for each hour of your process cycle.
Hour Detail

By clicking on any of the individual cells in the hotspot module you can access a more detailed break down of overcycle processes in that hour.

Select the hour you want detail for to reveal a comprehensive breakdown of processes that contributed to accumulated overcycle time.
Hotspot Views

Varaince Graph

Using the variance tab in the top right corner will change the look of your hotspot graph.

After selecting the tab you can view your overcycle occurrences on a single graph with variance data and see the trending direction with more ease.

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

<table>
<thead>
<tr>
<th>View</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Timeline</strong></td>
<td>The default view in the hotspot module</td>
</tr>
<tr>
<td><strong>Count/Accumulation</strong></td>
<td>A graph showing the total overcycle accumulation for each process</td>
</tr>
<tr>
<td><strong>AGV Breakdown</strong></td>
<td>A graph showing which AGVs (carriers) contributed to your overcycle accumulation.</td>
</tr>
<tr>
<td><strong>Model Breakdown</strong></td>
<td>A graph showing which models contributed to your overcycle accumulation.</td>
</tr>
</tbody>
</table>
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.
The live view window lets you see the status of every station in the plant in real-time. Stations are updated automatically without having to refresh the window. Several graphs with cycle data are also available in live view.
Production Monitor
Navigation

Plant Navigation

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, Stations) are used to organize the tree into a meaningful and friendly navigation structure. The lower 2 levels (Assets, Groups) are the data objects.

Object Description
Area
Organization object that contains a collection of related Lines.
Line
Organization object that contains a collection of related Stations.
Station
Organization object that contains a collection of Assets.
Asset
Collection of Groups with a sequential relation that define a machine cycle.
Group
Sequence step containing one or more OPs that have the same starting time and control source.

How to navigate with ENVISION
Navigating to the area of your plant you would like to monitor can be done at anytime using the top navigation bar in the ENVISION browser. Navigate to any process to view in depth critical performance data.

Top Navigation Bar
The head navigation bar can be found at the top of your ENVISION browser.

Main Tree Navigation

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>The top navigation area can be used to access any of the different features of Envision (Cycle View, Hotspots, Reporting, Notes).</td>
</tr>
<tr>
<td>2</td>
<td>The plant breakdown can be used to navigate to the process you want to view.</td>
</tr>
</tbody>
</table>
Select the Object Tree tab from the plant navigation panel to reveal the Main Tree.

Select the + box next to each item to further expand areas.

Continue to expand areas until you reveal the process you're looking for, then double-click to open the cycle browser.
Top Menu Tab Navigation

You can also reach the process you desire by using the top menu tab.

Simply hover over each section to reveal a drop down menu.

Continue selecting the areas you want until you reach the process you’re looking for, then double-click to open the cycle browser.
Product Support

Standard Support

Every licensed Envision user is entitled to:
60 days free email based product support
support@beet.com
Unlimited access to the on-line support materials available at Beet Analytics Technology support web site
http://support.beet.com
Critical bug fix updates for the version of software purchased

Service Maintenance Level Support

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

Submitting Suggestions and Reporting Issues

If you wish to make a suggestion or report an issue you have discovered using Envision, you can do so using our support web site. Alternatively, you can email Beet Analytics Technology Support at 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

Delete this text and replace it with your own content.
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(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
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2.5 Error Corrections. An Error means the failure of the Software to conform substantially to the Documentation
3.2 Services

3.2.1 Analytics

3.2.2 Renewal

3.2.3 Maintenance
each

3.2.4 Fees

3.2.5 Purchase

2.8

2.7 Software

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.

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9. Glossary

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