

Monitor Your Machinery Health 24/7

Right from a Web Browser



WATCHMAN

RELIABILITY PORTAL



WATCHMAN

RELIABILITY PORTAL

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We have two production facilities with very distinct setups, and the WATCHMAN Reliability Portal works great for both. Each production team can see specifics to their plant, while corporate gets access to the details they need from both.

- Matt Jenkins, Operations Manager

View the Health of Your Entire Plant

WATCHMAN Reliability Portal™ provides a secure, web-based, dynamic dashboard for plant managers and key executives to access machine health throughout an enterprise. This robust communications center—fully accessible via a web browser—provides business and mechanical metrics through a selection of simple graphics called Elements. Each user can customize their menu of Elements to meet their needs.

- Access real-time information—for a single machine, an area, a plant, or the entire enterprise
- Retrieve broad, enterprise-wide statistical overviews or drill down to detailed readouts
- Follow changes in machine health
- Track diagnostic histories
- Assess risk exposure to production
- Check condition reports at any time
- Be proactive with your program and in planning your maintenance activities

Discover how the WATCHMAN Reliability Portal, a key component of WATCHMAN Solutions™, can help you manage your predictive maintenance program.



Access All Your Information via the Web... *Right Now*

Logging in is as simple as 1-2-3:

1

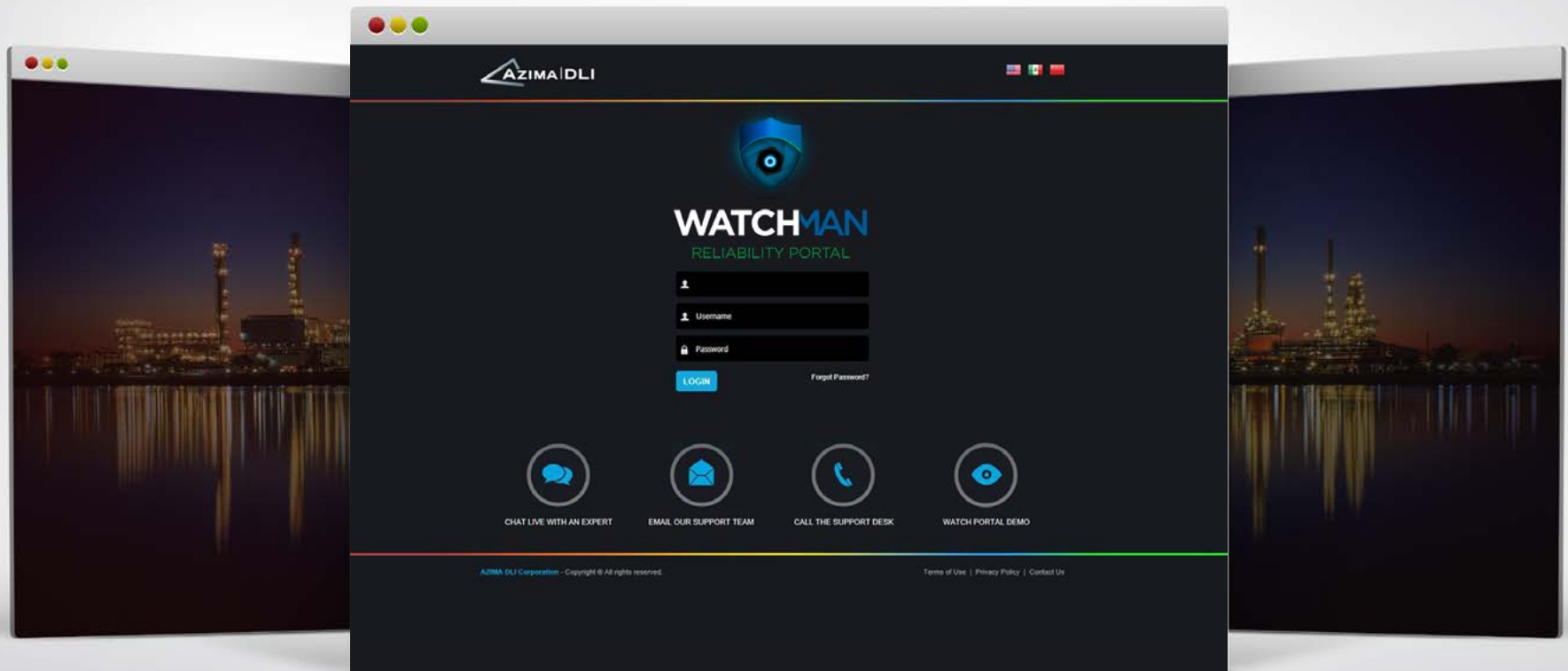
Go to: www.WatchmanPortal.com.

2

Enter your assigned credentials.

3

Click **LOGIN**—and you're there!

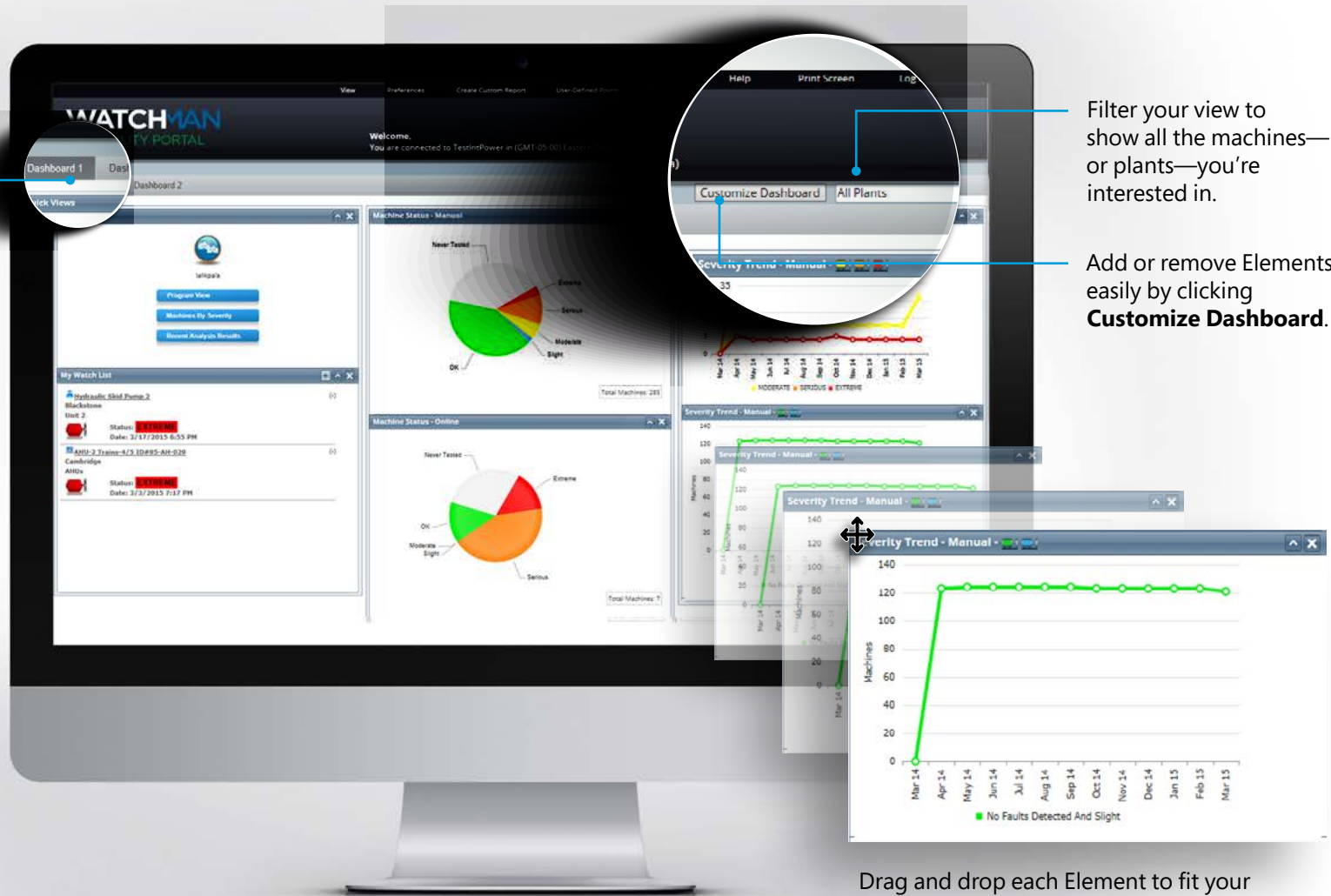


WATCHMAN Reliability Portal uses SSL encryption to maintain data security. It is optimized for Microsoft® Internet Explorer®.

See Exactly What You Want to See

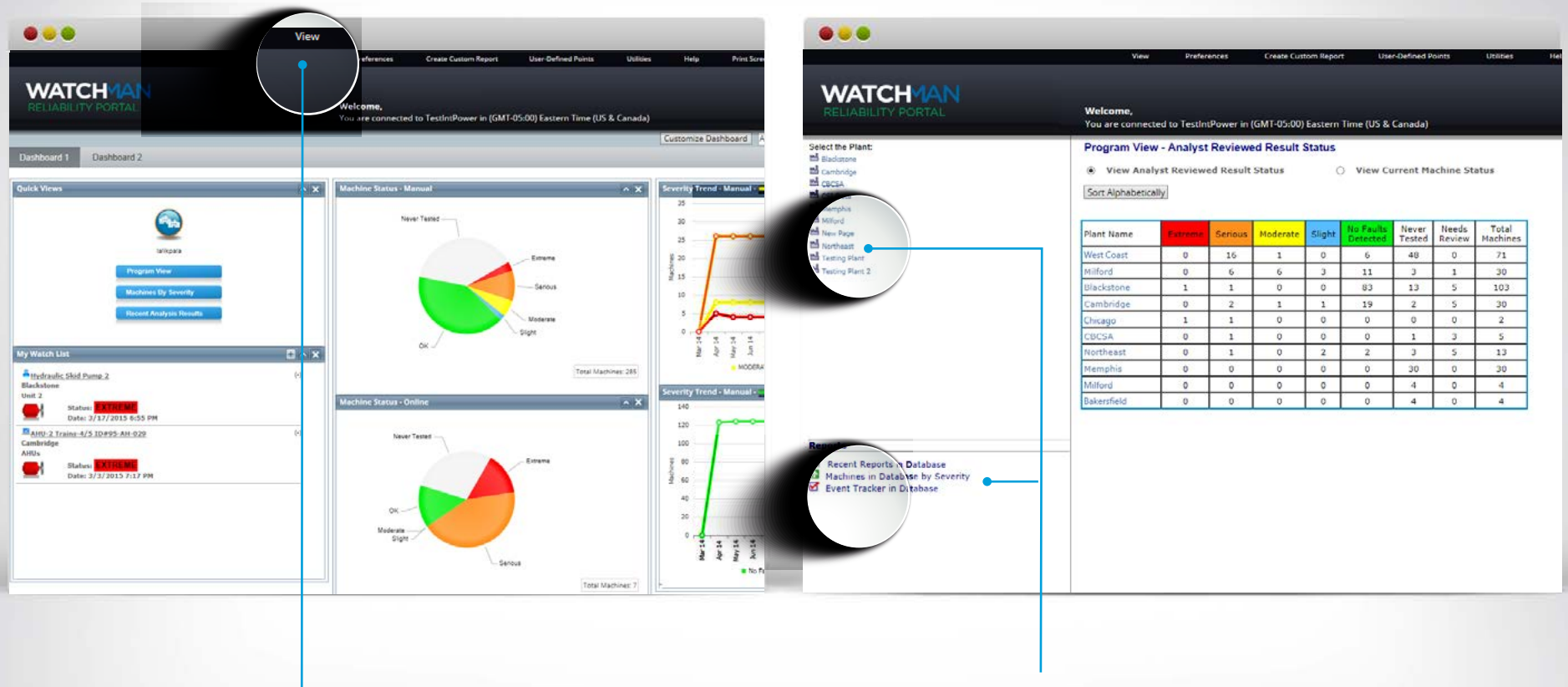
Customize your dashboard with the information most important to you.

Create different sets of related Elements (Widgets) using the tab system.



Drag and drop each Element to fit your desired layout.

Get the Big Picture, See the Details



Dashboard View provides a quick graphical overview.

Switch views easily—from a program summary to a list of troubled machines to the latest WATCHMAN analyst reports.

Program View shows detailed plant status.

Dive deeper into equipment health through clear, simple hyperlink navigation.

View Analyst Reports and other diagnostic results with one click.

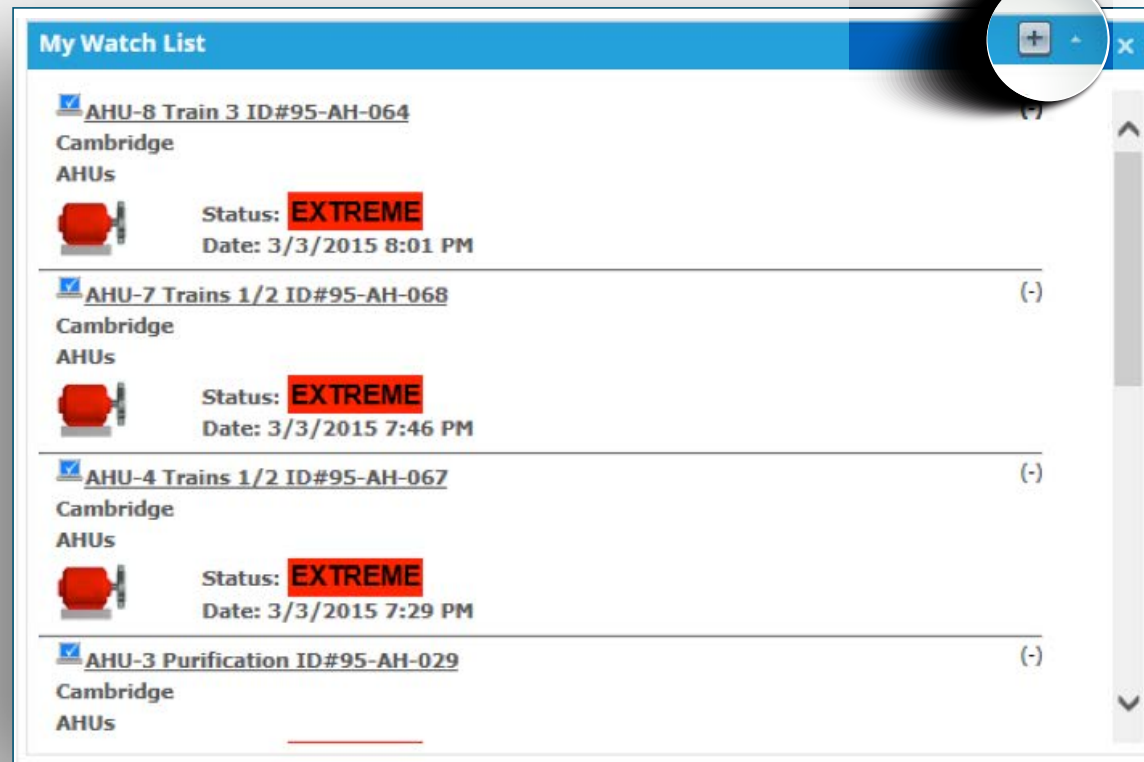
Watch for Trouble Spots

Build a Watch List of the machines you are most interested in—or worried about.



Add machines as they develop faults or keep a running list of your most critical assets.

Click + to add or – to remove a machine on your Watch List.

Trust the Watch List to stay current with status changes.



The screenshot shows a window titled "My Watch List" with a blue header bar. In the top right corner of the window, there is a circular callout highlighting a control panel with a plus sign (+) and a minus sign (-). The main content area lists four AHU units, each with a checked checkbox, a red status indicator, and a date. The units are:

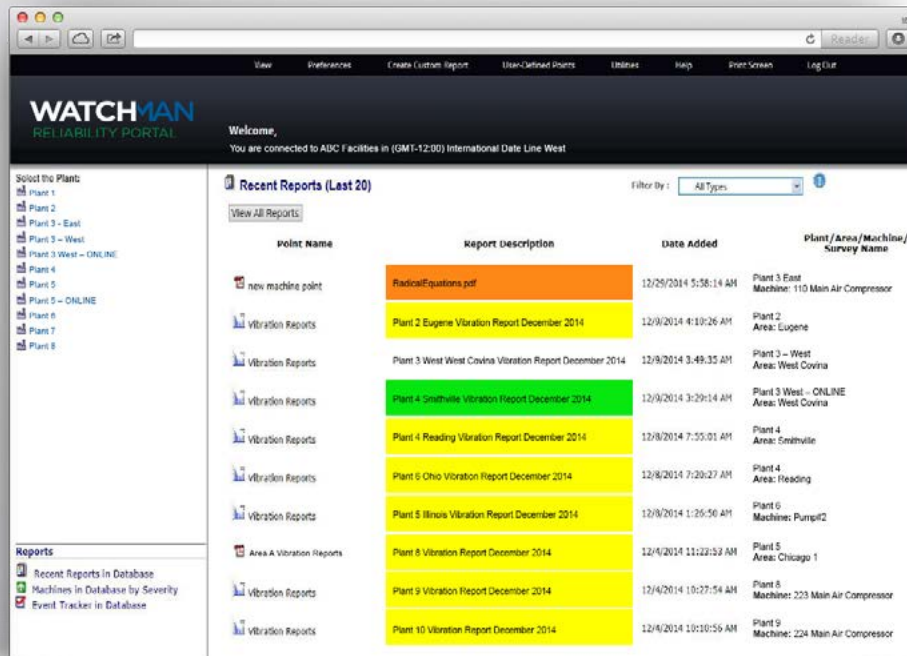
- AHU-8 Train 3 ID#95-AH-064 (-)
Cambridge
AHUs
 Status: **EXTREME**
Date: 3/3/2015 8:01 PM
- AHU-7 Trains 1/2 ID#95-AH-068 (-)
Cambridge
AHUs
 Status: **EXTREME**
Date: 3/3/2015 7:46 PM
- AHU-4 Trains 1/2 ID#95-AH-067 (-)
Cambridge
AHUs
 Status: **EXTREME**
Date: 3/3/2015 7:29 PM
- AHU-3 Purification ID#95-AH-029 (-)
Cambridge
AHUs

Note: A machine's presence on the Watch List does not affect the machine, the diagnostics, or other areas of the database.

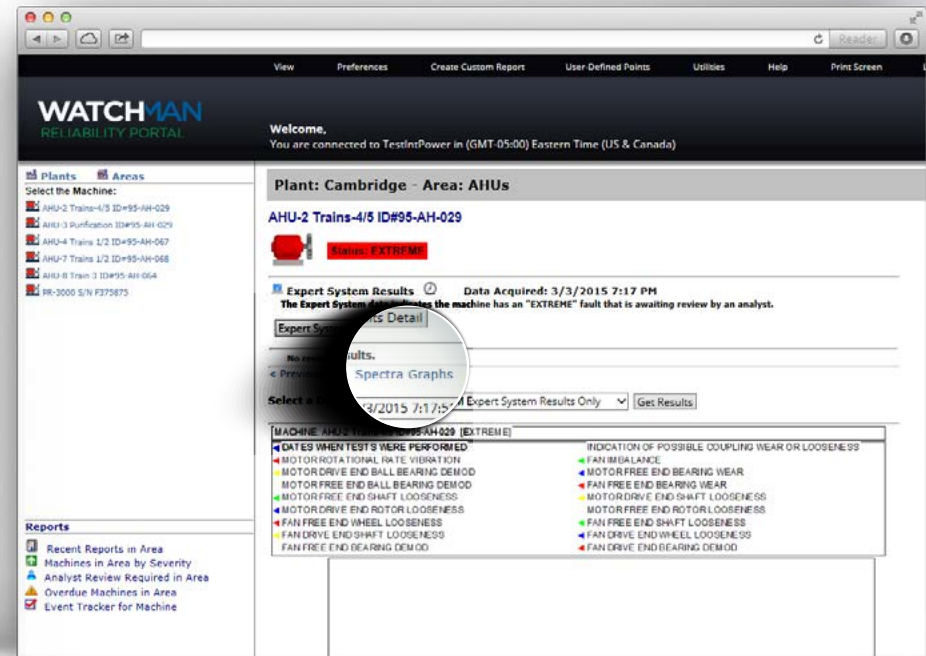
Download a Report, Pass It On

Analyze historical trends at any time.

Get immediate access to expert automated diagnostic results for data processed in the field and uploaded to the WATCHMAN Portal.



Review recommended actions and analytical comments by certified Azima DLI analysts in the Analysts-Reviewed Reports.



Retrieve a static graphical display of the latest collected data simply by clicking **Spectra Graphs**.

Track Maintenance Progress Automatically

Automatically track events when problems are discovered.

Update information at any time, dismiss faults or events, automatically close events when faults are cleared—all without changing the diagnostic report.

Improve visibility into your condition-based maintenance program with Event Tracker. Involve the right people to track work orders, financial impacts, and root cause findings.

Event Tracker Filter By: Pending

Export To CSV

	Latest Priority	Latest Date	Insert Priority	Insert Date	Machine Name	Recommended Actions	Work Order No.	WO Status	Status Date	Days WO Open	Findings Confirmed
Edit Reject	High	26-Mar-2015	High	26-Mar-2015	Sinewave Generator	Test Tracker	12345	Work Order Completed	26-Mar-2015	0	
Edit Reject	Medium	13-Mar-2015	Medium	13-Mar-2015	Sinewave Generator	Overhaul Motor.	12345	Work Order Assigned	18-Mar-2015	12	
Edit Reject	Medium	08-Nov-2014	Medium	04-Sep-2015	Looseness in locknut	Check/Adjust Bearing Clearance		Work Order Completed	07-Nov-2014	0	Yes
Edit Reject	Medium	08-Nov-2014	Medium	04-Sep-2015	Looseness in locknut	Collect Hft With Peakvue		Work Order Completed	07-Nov-2014	0	Yes
Edit Reject	Medium	08-Nov-2014	Medium	04-Sep-2015	Looseness in locknut	Open And Inspect		Work Order Completed	11-Mar-2015	0	Yes
Edit Reject	Medium	06-Nov-2014	Medium	06-Nov-2014	Test Machine 1	Replace Motor Free End Bearing		Open	06-Nov-2014		
Edit Reject	Medium	06-Sep-2014	Medium	06-Sep-2014	CBCSA Rig	Replace Motor Bearings		Open			
Edit Reject	Medium	06-Sep-2014	Medium	06-Sep-2014	CBCSA Rig	Replace Gearbox Ball Bearings		Open			
Edit Reject	Medium	02-Oct-2014	Medium	02-Oct-2014	ST-2000 - 1G Stm Turbine TG Motor	Replace Motor Bearings		Open			
Edit Reject	Low	24-Sep-2014	Low	24-Sep-2015	ST-1000 2 - ST Hydraulic Pump 2	Check Motor Mounting And Foundation Integrity	Test123	Work Order Assigned			

« FIRST 1 2 3 4 5 LAST »

WATCHMAN Reliability Portal™
POWERED BY AZIMA OLI

Welcome, lalipalal!
You are connected to TestIntPower in (GMT-05:00) Eastern Time (US & Canada)

Plant: Testing Plant
Area: Testing Area
Machine: Sinewave Generator

First Reported: [Redacted] Latest Priority: [Redacted]

Edit Event | Attached Files

Edit Event

Work Order Status: Status Date:

Work Order Number: Findings Confirmed:

Event Description: Root Cause Performed:

Root Cause Finding:

Financial Impact: \$

Recommended Actions:

Additional Findings:

Choose Your Own Preferences

Each user can manage their own password, contact information, preferred views, home page options, and how they get notified of events in their plant, and set their severity threshold for alerts.

Click **User Configuration** to edit your name, phone number, email address, and password. Configure the Reminder Service to create notifications when reports are due or new data has arrived.

Select your alert thresholds in **User Preferences**, and only get a notification when a diagnostic result changes to a certain severity.

Allow managers of enterprise programs to edit the permissions of all WATCHMAN Reliability Portal users.

Customize the severity trend graph in the machinery diagnostic Program View with start and end dates.

The screenshot shows the WATCHMAN Reliability Portal interface. The top navigation bar includes 'View', 'Preferences', 'Create Custom Report', 'User-Defined Points', and 'Utilities'. The main header displays the 'WATCHMAN RELIABILITY PORTAL' logo and a welcome message: 'Welcome, You are connected to TestIntPower in (GMT-05:00) Eastern Time (US & Canada)'. On the left sidebar, there is a user profile for 'J. Smith' with options for 'User Configuration', 'Reminder Configuration', and 'User Preferences'. The main content area is titled 'User Preferences' and contains several sections: 'Active?' with a checkbox, 'Description:' and 'Email:' input fields, and 'Email Format:' with radio buttons for 'Text' and 'HTML' (selected) and an 'Add' button. Below this is 'Vacation Mode (no emails sent)' with a checkbox. The 'Email Notifications' section is divided into 'Online Only' (with radio buttons for 'No Email Notifications', 'BLUE - Slight or greater', 'YELLOW - Moderate or greater', 'ORANGE - Serious or greater', and 'RED - Extreme') and 'Other' (with checkboxes for 'Analyst Report' and 'Attach Report'). The 'Default Settings' section includes 'Home Page Option' (radio buttons for 'Dashboard Page' and 'Program View Page'), 'Time Zone' (dropdown menu set to '(GMT-05:00) Eastern Time (US & Canada)'), and 'Language' (dropdown menu set to 'English-US'). 'Save' and 'Cancel' buttons are at the bottom.

Explore More Features

Several more Elements can be added to your dashboard depending on the information that is most relevant to your program. With all this data, you can get a snapshot of the high-level statistics to make informed decisions for your PdM program. Just drag and drop them to fit your desired layout.

Data Collection Compliance

Check how many machines are on schedule or overdue for data collection across your program by given time periods.

Machine Status for Manual and Online Collection

Each element includes a summary of the total collected data with a color-coded pie chart showing how many machines are in each state of health. The dashboard can present manual and/or online data collection depending on your program. Easily generate a report showing all the monitored machines in the plant in order of health status, with the most severe appearing first.

Severity Trends for Manual and Online Collection

Track machine faults by plant or area, and by severity over time. They are presented in two groups: *Moderate, Serious, and Extreme* and *Slight and No Fault* conditions for both manual and online data collection.

Compound Risk Index (CRI)

The Compound Risk Index displays the amount of operational risk to production associated with the continued operation of a specific set of machines in a plant or area. View the risk level based on how critical each machine is to production and the severity of detected fault(s).

Derived Machinery Readiness (DMR)

See a summary of the overall readiness of the machines in a plant or area. Readiness is represented by a percentage—the higher the percentage the more ready the fleet. The DMR rating takes into account the number of faults reported for each machine, the severity of those faults, and the importance of each machine to production.

Open Event Ratio

Open events are recommendations that have been identified by an analyst within the last 365 days and have a status of “Open” in the Event Tracker. This Element displays the ratio of open-event faults to active machines. A low number is indicative of high-quality machine repair practices, consistent data collection techniques, and rapid resolution of identified issues.

Proactive Response Index

This index shows the completion rate of analyst-recommended actions within 60 days of reporting, sorted by level of urgency. The score is affected by fixing machine problems and retesting after repair—the sooner the actions are taken, the higher the score.

The following elements are specific to the Event Tracker feature in ExpertALERT™

Event Tracker Summary

This provides a snapshot view of the number of repair recommendations, sorted by level of urgency (mandatory, important, desirable). This information is generated by analyst reports.

Average Time to Repair

This chart shows the average time it took to repair a fault based on the initial date of reporting and latest priority stored in the Event Tracker.

Percent Root Cause Evaluations

By seeing the root cause that occurs the most frequently, you can identify maintenance issues such as improper lubrication or temperature problems, among others.

Top Five Root Causes

The most frequently reported root causes of faults across your program are presented on a quarterly and annual basis.

- Azima DLI Warranty Terms and Conditions can be found on our website: www.AzimaDLI.com/warranty
- Contact Azima DLI Customer Support:
 - » Hours: 8:00 am – 7:00 pm EST
 - » support@AzimaDLI.com
 - » 800-654-2844 (toll free)
 - » +1 206-842-7656 (international)
- Context Specific Help can be found by clicking on the question mark icon found on each page of the WATCHMAN Reliability Portal. You can also find help content in the "Help" menu at the top of each page.
- Version information can be found at Help/About Reliability Portal.