# YANOM∀LY

Add AI-Powered Anomaly Detection to your Data Monitoring Platform

Machines, devices and industrial equipment generate more and more data that is easier to collect using the IoT. This data is full of hard to extract valuable information about the asset's health.

YANOMALY uses artificial intelligence to automatically learn normal machine operations and detect anomalies in sensor data and log files.
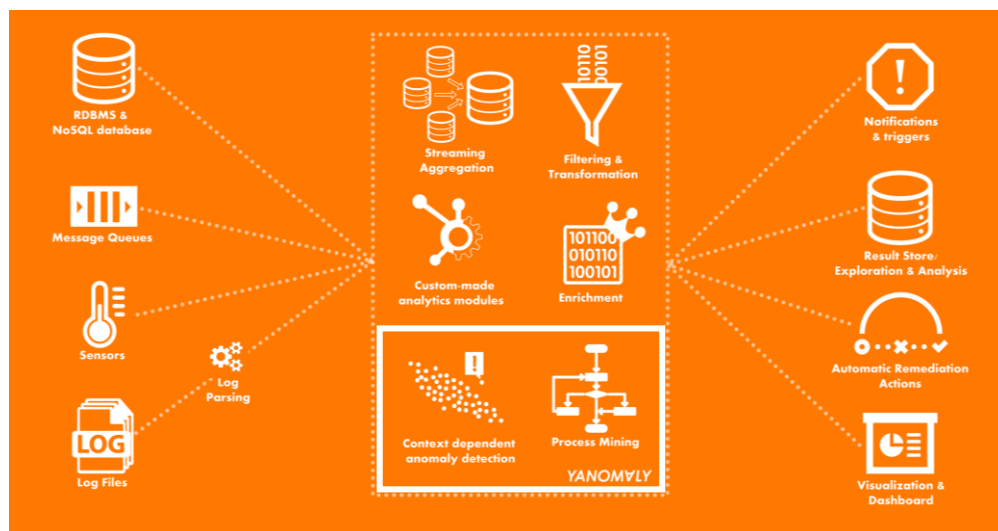
With its modular highly scalable architecture and flexible licensing, YANOMALY is made to be easily integrated into existing (remote) monitoring platforms, in the cloud or on premise.

Application Domains

Customers of YANOMALY include production companies, machine builders and IoT platform developers.

YANOMALY is built to work with all kinds of data and has a proven track record on a variety of machine and data types: industrial production lines (continuous and batch processes, robot-powered discrete manufacturing), medical imaging equipment, IoT-enabled utilities networks,….

Key Use Cases & Benefits

Operations & Maintenance: Continuous real-time monitoring with early warning of technical issues, prediction of failure for predictive maintenance.

Service & Support: Faster diagnostics & root-cause analysis thanks to AI-assisted data exploration, for lower MTTR & more efficient service teams.

Unique Capabilities

In traditional asset monitoring, predetermined rules and thresholds for alerts may not be triggered correctly, or not at all, by a previously unheard of anomalous event. The growth of data generated by machines has also made it impossible to anticipate or even describe all possible events.

Especially when the machine or production line is complex, changes over time, or is influenced by uncontrolled external factors, machine-learning based anomaly detection is a valuable addition to traditional monitoring systems asit will discover issues that are not detected by human written rules.

80 percent of downtime is caused by never-seen-before technical incidents. YANOMALY doesn't need an issue to have already occured in the past to detect early signs of failure. Thanks to proprietary self-learning algorithms it warns of any deviation from normal operations, previously known or not.

Context Dependent Anomaly Detection is the ability to detect in real-time anomalies (i.e. unusual combinations of values, patterns and behaviour of sensor signals) while taking into account the context in which the system operates.
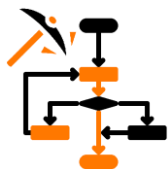
Complex machines and smart manufacturing lines are often controlled by software programs. By analysing the event log files files generated by this software, YANOMALY can detect deviations from normal execution that can be signs of technical issues.

About Yazzoom

Since 2011, Yazzoom applies artificial intelligence, machine learning and data mining to solve the challenges of industrial companies, either through standard solutions or using custom-developed software and predictive models.

Some of our customers & R&D partners in anomaly detection on machine data:

AGFA *Agfa* **TENNECO** **PHILIPS**

océ eNGie Laborelec water-link **BARCO**

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