

IBM Maximo Predict

Identify and manage asset reliability risks that could adversely affect plant or business operations by using AI models to predict future failures.



Highlights

- Build predictive models with prebuilt templates
- Score asset data and examine asset health results with preconfigured graphs, charts and tables in a single view
- Investigate assets with high probabilities of failure using preconfigured work queues
- Use predictive model output as a factor in health scores to avoid over-maintaining assets
- Take actions directly from Maximo Predict to address assets in poor health

The world is more connected than ever before. Using Internet of Things (IoT) sensors and other technologies, engineers in asset-intensive industries are collecting large amounts of data from their equipment. Yet many engineers struggle to draw insights from this data. They struggle to understand data patterns and the causal relationships that can help them extend asset life, reduce unplanned downtime, and reduce maintenance costs. It's as if their equipment is speaking on mute. Their equipment has so much to say but they simply can't hear it.

Based on manufacturer guidance you may have a rough estimate about how long your assets and equipment will last. How confident are you in this estimate? There are many factors that contribute to equipment condition, from age to operating environment, to past maintenance schedules, and even quality of repair. The problem? The lifecycle of equipment can vary dramatically based on these factors yet you won't know how much until it's too late, and the equipment is down and impacting key performance indicators.

IBM Maximo Predict, part of the IBM Maximo Application Suite, focuses on the needs of maintenance managers and reliability engineers to identify potential

Features



Data-driven insights

Build on the insights gained from Maximo Monitor, Maximo Visual Inspection and Maximo Health and apply predictive analytics to your maintenance strategy.



Build predictive models with provided templates or from scratch

Get a head-start building predictive models using templates provided with Maximo Predict, or build custom models using IBM Watson Studio as part of the Maximo Application Suite.



Create health scores with output from predictive models

Score asset data and incorporate model output to enhance health scores.



Prebuilt widgets

View output from models built with the provided templates in charts, graphs and tables specifically designed to quickly and easily identify issues.



Asset timeline

Review predicted failures, past failures, planned maintenance and other key pieces of asset information on a single graph to quickly make decisions about maintenance.

failures and optimize production output. It looks for patterns in asset data, how the asset is being used, and the environment in which it is operating.

Unify disparate operational data

IBM Maximo Predict correlates data from varied sources such as IoT sensors, operational technology (OT) systems, and enterprise asset management (EAM) systems with any known failures in the equipment by leveraging Watson Machine Learning. Models trained on this data produce a score that gives the reliability engineer insight into the future state of their equipment based on real data from their specific assets.

Out-of-the-box templates

Predict failure dates, modes, probabilities and anomalies with models built from templates included with Maximo Predict. These templates include algorithms and methods developed by IBM Research, and are continually enhanced. Data sets are unique, and different learning algorithms are conducive to different data sets. The more algorithms available, the better chance to match the asset data, and get a better outcome.

Seamless integration within the Maximo Application Suite

Build on the power of other applications in the Maximo Application Suite such as IBM Maximo

Monitor, IBM Maximo Visual Inspection, IBM Maximo Health and Watson Studio. Maximo Monitor provides the foundation for collecting, storing and analyzing incoming sensor data used by predictive models. Maximo Visual Inspection performs visual inspections and provides AI-powered actionable notifications of any emerging issue. Score from models built with the templates that can be visualized alongside Health information on the asset details page. Start with templates provided with Maximo Predict or build your own predictive models in Watson Studio.

WHY IBM?

Maximo Predict builds on IBM's decades of leadership in the asset and operations management space. It leverages IBM's deep commitment to data science and AI at enterprise scale, as well as its recognized leadership in IoT platform, hybrid cloud, security and now digital twin technology.

IBM supports your organization's digital re-invention by providing the tools for new efficiencies, risk reduction, improved customer satisfaction, and the capturing of new revenue streams.

IBM's global ecosystem of Business Partners has a track record of delivering solutions in over 90 countries, including industry-specific solutions and add-ons that bring more rapid ROI for our customers. Only IBM has the investments, ecosystems, and experience to turn your assets and operations into a competitive advantage.



© Copyright IBM Corporation 2020

IBM Corporation Route 100
Somers, NY 10589

Produced in the United States of America
November 2020

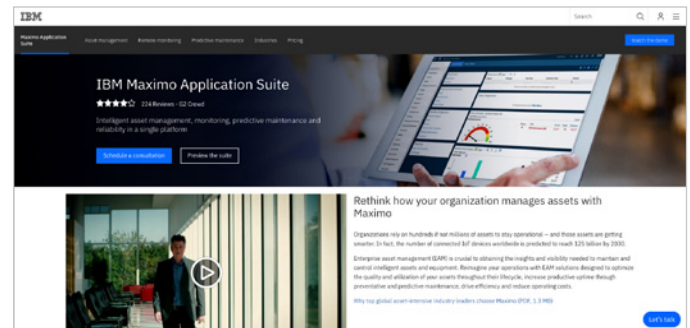
IBM, the IBM logo, ibm.com, and Maximo are trademarks of International Business Machines Corp., registered in many jurisdictions worldwide. Other product and service names might be trademarks of IBM or other companies. A current list of IBM trademarks is available on the Web at "Copyright and trademark information" at <http://www.ibm.com/legal/us/en/copytrade.shtml>

This document is current as of the initial date of publication and may be changed by IBM at any time. Not all offerings are available in every country in which IBM operates.

The information in this document is provided "as is" without any warranty, express or implied, including without any warranties of merchantability, fitness for a particular purpose and any warranty or condition of non-infringement.

IBM products are warranted according to the terms and conditions of the agreements under which they are provided.

Learn more about Maximo Predict and the IBM Maximo Application Suite



Watch videos, read case studies, explore demos and more at our website: ibm.biz/maximo-application-suite

