



IBM Predictive Maintenance and Quality V2.0 can monitor, maintain, and optimize assets for better availability, utilization, and performance

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At a glance

IBM® Predictive Maintenance and Quality V2.0 builds on the functions and capabilities in the previous release and offers:

- New manufacturing quality modeling: Advanced algorithms to help detect and prioritize quality problems and parametric shifts earlier and more definitively than can be done using traditional techniques.
- Enhanced integration with enterprise asset management (EAM) systems: Integrates directly with EAM systems, such as IBM Maximo® Asset Management, for failure event capture.
- New maintenance modeling capabilities, which include the combining of text, sensor, maintenance data, automatic retraining of models, and a new maintenance dashboard.
- Reporting enhancements for Top Failure Causes Report and Statistical Process Control Reports as well as new equipment health drill-down dashboards.
- Advanced analytic foundation capabilities with Java™ based APIs for custom orchestration, database, and data sources.

For ordering, contact your IBM representative, an IBM Business Partner, or IBM Americas Call Centers at 800-IBM-CALL (Reference: YE001).

Overview

IBM Predictive Maintenance and Quality V2.0 helps to keep infrastructure and equipment fully operational so that organizations can maximize production and minimize costly, unscheduled downtime that can disrupt both service and delivery. By helping to predict failure, Predictive Maintenance and Quality also helps to improve quality and supply chain processes.

Predictive Maintenance and Quality combines data from disparate unstructured, structured, and streaming sources, and helps to automatically detect failure patterns before they can occur. The ability to help to predict future failures enables preemptive deployment of maintenance and repair resources, resulting in cost savings.

Key enhancements in IBM Predictive Maintenance and Quality V2.0 include:

- Usability improvements that include automatic retraining of models and a new maintenance dashboard.

- Enhanced content reporting with a top failure causes report, statistical process control reports, and equipment health drill down within your reports to find answers to your questions. This capability is implemented with IBM Rapidly Adaptive Visualization Engine (RAVE) technology, which enables you to describe the visualizations you want to create and how they should look.
- New manufacturing quality modeling with quality early warning support, inspection quality during production, and warranty analytics and vintage tracking.
- Extended interoperability with enterprise asset management (EAM) solutions, offering increased IBM Maximo Asset Management integration and failure event capture.

IBM Predictive Maintenance and Quality V2.0 offers significantly increased data protection capabilities, scalability, and performance for all its database intensive operations which, based on IBM DB2® technology, are designed to manage data more effectively and efficiently. Greater availability is delivered through enhancements such as online, automated database reorganization. In addition, the increased scalability and the ability to leverage the latest in server technology help deliver increased performance of backup and recovery processes.

Key prerequisites

- Server: Red Hat Enterprise Linux™ 6.5 x86-64 bit
- Client: Microsoft™ Windows™ 7 64-bit operating systems

Refer to the [Technical information](#) section for details.

Planned availability date

June 10, 2014: Electronic download and physical media

Description

IBM Predictive Maintenance and Quality V2.0 acquires and analyzes data from a variety of sources including high volume, streaming information from enterprise asset management (EAM) systems and enterprise resource planning (ERP) systems. It leverages technology enablers such as master data management, analytics, workflows, and dashboards to enable organizations to receive vital information faster. As a result, they are able to make maintenance and asset-related decisions more quickly.

This approach offers enterprise-wide visibility into the complete asset lifecycle, from the design phase to final asset decommissioning. Preconfigured content stack of models, dashboards, and reports enable accelerated deployment and return on investment.

Key enhancements

- Usability
 - Delivers statistical process control (SPC) reports and charts (range, histogram)
 - Has ability to compare Key Performance Indicators (KPIs) for multiple machines
 - Incorporates and extends Active Reports developed in the field
 - Delivers automatic retraining of analytic models used within the solution
- Enhanced content
 - Models, schema, and reports to support quality, warranty, and maintenance scenarios
 - Asset health dashboard and drill down for real-time management views

- Statistical process control charts for manufacturing and process quality
- Top failure reports
- Extended interoperability
 - Provides the framework for deploying packages (content, integrations)
 - Delivers enhanced IBM Maximo Work Order integration that enables the automatic generation of work orders based on analytic insight and business rules, and lets users act on predictive insights
 - Includes open Java based APIs for developing enhanced content

Availability of national languages

Description	Availability date	Language
IBM Predictive Maintenance and Quality v2.0	June 10, 2014	French Danish Kazakh Russian Korean Chinese - Simplified Chinese - Traditional Spanish Norwegian Bokmal Portuguese - Brazilian Croatian German Swedish Japanese Hungarian English Romanian Slovenian Turkish Dutch Czech Italian Finnish Polish Thai

Some components may not be translated into the languages listed.

Program number

Program number	VRM	Program name
5725-K39	2.0	IBM Predictive Maintenance and Quality

Offering Information

Product information is available via the Offering Information website

<http://www.ibm.com/common/ssi>

Also, visit the Passport Advantage® website

<http://www.ibm.com/software/passportadvantage>

Publications

No publications are shipped with this program.

The IBM Publications Center

<http://www.ibm.com/shop/publications/order>

The Publications Center is a worldwide central repository for IBM product publications and marketing material with a catalog of 70,000 items. Extensive search facilities are provided. Payment options for orders are via credit card (in the US) or customer number for 20 countries. A large number of publications are available online in various file formats, and they can all be downloaded by all countries, free of charge.

Technical information

Specified operating environment

Hardware requirements

The minimum hardware requirements for the Predictive Maintenance and Quality V2.0:

- Per node
 - The deployment can be successful on a minimum of five node architecture.
- System architecture:
 - The Predictive Maintenance and Quality server components must be installed on computers that are running the 64-bit Red Hat Enterprise Linux Server Edition version 6.5 (x86-64) operating system
- Central processing unit
 - 4 CPUs
- Disk drive
 - Minimum of 500 GB storage
- Random access memory
 - Minimum of 8 GB

Client hardware requirements

- Central processing unit
 - 2 CPUs
- Disk drive
 - Minimum of 200 GB storage
- Random access memory
 - Minimum of 4 GB

Ensure there is sufficient disk space in the the file system root directory ("/" folder). It is recommended that the staging machine have a minimum of 150 GB of space available for the file system root directory. Other nodes should have at least 100 GB of available space.

Prerequisite packages must be installed along with the operating system on all five nodes.

For complete details regarding the minimum hardware requirements to install and run IBM Predictive Maintenance and Quality, refer to the Installation Guide on IBM Knowledge Center

http://www.ibm.com/support/knowledgecenter/SSTNNL_2.0.0

Software requirements

- Operating system
 - Red Hat Enterprise Linux 6.5 (x86-64)

Client software

- Operating system requirement
 - Client computers should be running Microsoft Windows 7 64-bit operating systems

For complete details regarding the minimum software requirements to install and run IBM Predictive Maintenance and Quality, refer to

<http://www.ibm.com/support/docview.wss?&uid=swg27041626>

The program's specifications and specified operating environment information may be found in documentation accompanying the program, if available, such as a readme file, or other information published by IBM, such as an announcement letter. Documentation and other program content may be supplied only in the English language.

IBM Electronic Support

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Planning information

Packaging

This program, when downloaded from a website, contains the applicable IBM license agreement and License Information, if appropriate, and will be presented for acceptance at the time of installation of the program. For future reference, the license and License Information will be stored in a directory such as LICENSE.TXT.

Security, auditability, and control

The customer is responsible for evaluation, selection, and implementation of security features, administrative procedures, and appropriate controls in application systems and communication facilities. The customer is responsible for evaluation, selection, and implementation of security features, administrative procedures, and appropriate controls in application systems and communication facilities.

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Passport Advantage

Description	Part number
IBM Predictive Maintenance and Quality Per Install	
License + SW Subscription & Support 12 Months	D15H6LL
Annual SW Subscription & Support Renewal	E0JRJLL
SW Subscription & Support Reinstatement 12 Months	D15H7LL
IBM Predictive Maintenance and Quality Per Resource value Unit (RVU)	
License + SW Subscription & Support 12 Months	D15HCLL
Annual SW Subscription & Support Renewal	E0JRKLL
SW Subscription & Support Reinstatement 12 Months	D15HDLL
IBM Predictive Maintenance and Quality for Non-Production Environment Per Install	
License + SW Subscription & Support 12 Months	D15HELL
Annual SW Subscription & Support Renewal	E0JRLLL
SW Subscription & Support Reinstatement 12 Months	D15HFLl

Passport Advantage customer: Media pack entitlement details

Customers with active maintenance or subscription for the products listed are entitled to receive the corresponding media pack.

Media packs description	Part number
IBM Predictive Maintenance and Quality V2.0	B9036EN

Charge metric

Program name	PID number	Charge metric
IBM Predictive Maintenance and Quality v2.0	5725-K39	Per Install Per Resource Value Unit

Install

Install is a unit of measure by which the program can be licensed. An install is an installed copy of the program on a physical or virtual disk made available to be executed on a computer. Licensee must obtain an entitlement for each install of the program.

Resource Value Unit (RVU)

RVU is a unit of measure by which the program can be licensed. RVU Proofs of Entitlement (PoEs) are based on the number of units of a specific resource used or managed by the program. Licensee must obtain sufficient entitlements for the number of RVUs required for licensee's environment for the specific resources as specified in the program specific table. RVU entitlements are specific to the program and the type of resource and may not be exchanged, interchanged, or aggregated with RVU entitlements of another program or resource. Refer to the program specific RVU table.

Notes :

- Some programs may require licenses for the resources available to **and** the resources being managed by the program. In that case, the following applies. In addition to the entitlements required for the resources used by the program directly, licensee must obtain entitlements for this program sufficient to cover the resources managed by the program.
- Some programs may be licensed on a managed basis **only** . In that case, the following applies. Instead of the entitlements required for the resources used by the program directly, licensee must obtain entitlements for this program sufficient to cover the resources managed by the program.

Terms and conditions

The information provided in this announcement letter is for reference and convenience purposes only. The terms and conditions that govern any transaction with IBM are contained in the applicable contract documents such as the IBM International Program License Agreement, IBM International Passport Advantage Agreement, and the IBM Agreement for Acquisition of Software Maintenance.

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an annual renewable charge for the enhanced support that includes telephone assistance (voice support for defects during normal business hours), as well as access to updates, releases, and versions of the program as long as support is in effect.

License Information number

L-GLBC-9G4LMX

The program's License Information will be available for review on the IBM Software License Agreement website

<http://www.ibm.com/software/sla/sladb.nsf>

Limited warranty applies

Yes

Limited warranty

IBM warrants that when the program is used in the specified operating environment, it will conform to its specifications. The warranty applies only to the unmodified portion of the program. IBM does not warrant uninterrupted or error-free operation of the program or that IBM will correct all program defects. You are responsible for the results obtained from the use of the program.

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<http://www.ibm.com/support/handbook>

IBM will maintain this information for at least one year after the original licensee acquires the program (warranty period).

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Technical support of a program product version or release will be available for a minimum of five years from the general availability date, as long as your Software Subscription and Support (also referred to as Software Maintenance) is in effect. This technical support allows you to obtain assistance (via telephone or electronic means) from IBM for product-specific, task-oriented questions regarding the installation and operation of the program product. Software Subscription and Support (Software Maintenance) also provides you with access to updates (modifications or fixes), releases, and versions of the program. You will be notified, via announcement letter, of discontinuance of support with 12 months' notice. If you require additional technical support from IBM, including an extension of support beyond the discontinuance date, contact your IBM representative or IBM Business Partner. This extension may be available for a fee.

Money-back guarantee

If for any reason you are dissatisfied with the program and you are the original licensee, you may obtain a refund of the amount you paid for it, if within 30 days of your invoice date you return the program and its PoE to the party from whom you obtained it. If you downloaded the program, you may contact the party from whom you acquired it for instructions on how to obtain the refund.

For clarification, note that (1) for programs acquired under the IBM International Passport Advantage offering, this term applies only to your first acquisition of the program and (2) for programs acquired under any of IBM's On/Off Capacity on Demand (On/Off CoD) software offerings, this term does not apply since these offerings apply to programs already acquired and in use by you.

Other terms**Volume orders (IVO)**

No

IBM International Passport Advantage Agreement**Passport Advantage applies**

Yes, and through the Passport Advantage website at

<http://www.ibm.com/software/passportadvantage>

Usage restriction

Yes. For additional information, refer to the License Information document that is available on the IBM Software License Agreement website

<http://www.ibm.com/software/sla/sladb.nsf>

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<http://www.ibm.com/software/passportadvantage>

IBM Operational Support Services - SoftwareXcel

No

System i® Software Maintenance applies

No

Variable charges apply

No

Educational allowance available

Not applicable.

Statement of good security practices

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Now integrated into the base operating system of AIX® V5.3, AIX V6.1, and AIX V7.1, Electronic Service Agent is designed to automatically and electronically report system failures and utilization issues to IBM, which can result in faster problem resolution and increased availability. System configuration and inventory information collected by the Electronic Service Agent tool also can be viewed on the secure Electronic Support web portal, and used to improve problem determination and resolution by you and the IBM support team. To access the tool main menu, simply type `smitty esa_main`, and select Configure Electronic Service Agent. In addition, ESA now includes a powerful web user interface, giving the administrator easy access to status, tool settings, problem information, and filters. For more information and documentation on how to configure and use Electronic Service Agent, refer to

<http://www.ibm.com/support/electronic>

The IBM Electronic Support portal is a single Internet entry point that replaces the multiple entry points traditionally used to access IBM Internet services and support. This portal enables you to gain easier access to IBM resources for assistance in resolving technical problems. The My Systems and Premium Search functions make it even easier for Electronic Service Agent tool-enabled customers to track system inventory and find pertinent fixes.

Benefits

Increased uptime: The Electronic Service Agent tool is designed to enhance the Warranty or Maintenance Agreement by providing faster hardware error reporting and uploading system information to IBM Support. This can translate to less wasted time monitoring the symptoms, diagnosing the error, and manually calling IBM

Support to open a problem record. Its 24x7 monitoring and reporting mean no more dependence on human intervention or off-hours customer personnel when errors are encountered in the middle of the night.

Security: The Electronic Service Agent tool is designed to be secure in monitoring, reporting, and storing the data at IBM. The Electronic Service Agent tool securely transmits via either the Internet (HTTPS or VPN) or modem, and can be configured to communicate securely through gateways to provide you a single point of exit from your site. Communication is one way. Activating Electronic Service Agent does not enable IBM to call into your system. System inventory information is stored in a secure database, which is protected behind IBM firewalls. It is viewable only by you and IBM. Your business applications or business data is never transmitted to IBM.

More accurate reporting: Because system information and error logs are automatically uploaded to the IBM Support center in conjunction with the service request, you are not required to find and send system information, decreasing the risk of misreported or misdiagnosed errors. Once inside IBM, problem error data is run through a data knowledge management system and knowledge articles are appended to the problem record.

Customized support: Using the IBM ID entered during activation, you can view system and support information in the My Systems and Premium Search sections of the Electronic Support website at

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Prices

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<https://www.ibm.com/software/howtobuy/passportadvantage/paoreseller>

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