IBM Prescriptive Quality for Manufacturing Private helps deliver the quality of process, materials, components, and products

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At a glance

IBM® Prescriptive Quality for Manufacturing Private provides earlier and more definitive identification of product quality problems in comparison to traditional statistical process control methods. Prescriptive Quality Private can help you:

- Identify substandard materials before they enter the manufacturing process
- Monitor inspections and tests on product assemblies and components during critical manufacturing steps
- Monitor process variables that determine product quality

Overview

A new offering in the IBM IoT for Manufacturing suite of solutions, Prescriptive Quality for Manufacturing Private, an on-premises solution, helps monitor product and process quality. Quality of process, materials, components, and products continues to be an area of keen focus for manufacturing organizations. Quality problems can surface throughout the manufacturing process. Quality of raw materials or components may vary among suppliers, production runs, or delivery dates. Likewise, process quality may vary by location, time of day, production environment, or operator. Quality is critical to the success of automotive, aviation, electronics, chemical and petroleum, consumer goods, food, industrial products, and pharmaceutical industries.

In addition to established methods of obtaining operational data, the Internet of Things (IoT), one of the great technologies of our time, can facilitate immediate and detailed insight into manufacturing quality problems. By infusing intelligence into manufacturing equipment, new capabilities, such as cognitive computing, give businesses deeper insights into manufacturing processes and help unlock the true value of production assets. This new world of intelligence, connectivity, and analytics gives manufacturing organizations a means to obtain a more detailed and accurate understanding and greater control of process and product quality.

Prescriptive Quality for Manufacturing Private helps support quality control throughout the manufacturing process by providing early, more definitive alerts to process and product quality problems. This proactive approach enables personnel to spend less time on problem detection and more time on problem resolution, thereby, helping increase production yield and lower overall operational costs. Quality control personnel benefit from the ability to identify and resolve process and product quality problems as early as possible in the production cycle.
Benefits may extend to other lines of business as well. Procurement may benefit by identifying suppliers who deliver substandard parts, reviewing contractual specifications to remedy problems, or finding a new supplier. Product design can be advised of component modifications, such as a minor change in dimensions to help simplify assembly. Process engineering can fine tune adjustments or make modifications to production equipment, calibration, or an assembly process to eliminate process variation. Operations may benefit from determining that a problem is associated with a prescribed procedure or possibly a need to provide better operator training. Maintenance may benefit through alerts of impending equipment degradation or failures that could result in reduced yield, scrap, or the need for rework.

Established data acquisition methods and newer IoT technologies can deliver a bounty of operational data to the desktops and devices of personnel responsible for process and product quality. In a manufacturing environment, data value is a function of timely analysis that can transform it into meaningful action. The cost of poor quality in a company is high and can impact sales revenue. Detection of quality issues, early in the supply chain or manufacturing process, can deliver significant cost savings. The Quality Early Warning System algorithms provide a significant advantage over traditional Statistical Process Control (SPC) methods by detecting emerging quality problems sooner and with fewer false alarms. Perscriptive Quality for Manufacturing Private is designed to provide timely, accurate, and relevant alerts to detect, identify, and help proactively remedy quality problems to help improve production yield, reduce scrap and rework, and reduce warranty costs.

### Key prerequisites

Refer to the [Software requirements](#) and [Hardware requirements](#) sections.

### Planned availability date

September 22, 2017

### Reference information

For information about IBM IoT for Manufacturing, see 216-194, dated October 25, 2016.

### Program number

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### Education support

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More information is also available on the Passport Advantage® and Passport Advantage Express® website.

**Publications**

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Documentation is published in IBM Knowledge Center.

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**Technical information**

**Specified operating environment**

**Hardware requirements**

- CPU: 8 core processor
- Memory: 64 GB
- 2 terabytes hard disk

**Software requirements**

- Hortonworks Data Platform 2.6.1 (prerequisite)
- Red Hat Enterprise Linux® Server Edition V7.2, x86_64
- IBM WebSphere® Liberty V8.5.5 + FP 16.0.0.4

**Planning information**

**Packaging**

This offering is delivered through the internet. There is no physical media.

**Ordering information**

This product is only available through Passport Advantage. It is not available as shrinkwrap.

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To locate IBM Business Partners for Channel Value Rewards in your geography for a specific Channel Value Rewards portfolio, go to the Find a Business Partner page.

Product group: Watson™ IoT

Product: IBM Prescriptive Quality for Manufacturing Private

Product category: Watson IoT

**Passport Advantage**

**IBM IoT for Manufacturing Storage Terabyte Overage (5737-C11)**

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**IBM Prescriptive Quality for Manufacturing Private (5737-E09)**

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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.
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**License Information number**

L-GFYN-AQ293V

See the License Information documents page on the IBM Software License Agreement website for more information.

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Yes

**Limited warranty**

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**Volume orders (IVO)**

No

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**Variable charges apply**

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**Educational allowance available**

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**Prices**

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