IBM Production Quality Insights Private helps maintain quality of process, materials, components, and products during manufacturing, assembly, and maintenance

At a glance

IBM® Production Quality Insights Private provides extensive insights into the quality of manufacturing and production operations:

- IBM Prescriptive Quality Private provides earlier and more definitive identification of product quality problems in comparison to traditional statistical process control methods.
- IBM Visual Insights Private helps enable transformation for smarter manufacturing and Industry 4.0 through cognitive visual inspection.

Overview

Production Quality Insights Private brings a 360-degree view to quality monitoring, inspection, and insights during a manufacturing, assembly, or maintenance process, and provides the capability to analyze the cause of defects from inspection data. It provides quality insights solutions for different data types, such as structured data (process data), inspection data, and visual data (image data). Organizations gain the flexibility to use the best offerings for their quality insights and inspection needs based on the data availability in their operations.

Powerful combination of monitoring components accelerates inspection processes


Prescriptive Quality Private helps:

- 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

Visual Insights Private helps to bring increased intelligence and precision manufacturing and assembly. Visual Insights Private uses cognitive capabilities to review and match incoming defects to defect patterns on which it has formerly trained, and classifies them accordingly. The solution accelerates the tedious and expertise-based visual inspection process to quickly identify and classify defects in
the manufacturing process. This solution can also be applied for parts validation during assembly and location of defects on a finished product.

- Classifies incoming images into defect classes, when they match, or nondefects
- Provides model managers and data scientists with the capability to define and track manufacturing defects to create more accurate assessments and defect capture strategies
- Can improve efficiency and reduce visual inspection times for visual inspectors and inspection supervisors
- Can drive increase in manufacturing yield and reduction of scrap

**Cognitive, efficient quality control and inspection in one on-premises solution**

Production Quality Insights 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 capability to identify and resolve process and product quality problems as early as possible in the production cycle.

Benefits extend to other lines of business:

- Procurement can identify suppliers who deliver substandard parts, review contractual specifications to remedy problems, or find 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 can determine whether a problem is associated with a prescribed procedure or possibly a need to provide better operator training.
- Maintenance can 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 operational data to the desktops and devices of personnel that are 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. Production Quality Insights 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**

- Hortonworks Data Platform 2.6.1

**Planned availability date**

September 26, 2018

**Accessibility by people with disabilities**
A US Section 508 Accessibility Compliance Report containing details on accessibility compliance can be found on the Product accessibility information website.

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**Offering Information**

Product information is available on the IBM Offering Information website.

More information is also available on the Passport Advantage(R) and Passport Advantage Express(R) website.

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**Technical information**

**Specified operating environment**

**Hardware requirements**

Minimum configuration

- VM1- App node:
  - 4-core processor
  - 32 GB memory
  - 1 TB hard disk
- VM2 - Horton Data Platform master:
  - 8-core processor
  - 64 GB memory
  - 1 TB hard disk
- VM3 and VM4 - Hortonworks Data Platform slave nodes:
- 16-core processor
- 128 GB memory
- 500 GB 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**

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Product group: Watson IoT™

Product: IBM Production Quality Insights Private

Product category: Watson IoT

**Passport Advantage**

**IBM Visual Insights Private (5737-I53)**

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**IBM Prescriptive Quality Private (5737-I53)**

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**IBM Operational Support Services - SoftwareXcel**

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