

Smart Platform-Network Platform Upgrade

Network Platform upgrades allow you to take advantage of the latest measurement, signal processing and diagnostics technology, without the need for replacing an entire scanner. This is more cost effective and saves valuable machine downtime. ABB has an unmatched history of providing our customers with the most effective investment protection in the industry for their paper machine quality control systems.

Article numbers 3BUS209639 (SP1200), 3BUS209748 (SP700), 3BUS210043 (SP700/1200 Remote)

Features and benefits

- Higher sensor sampling rates - some sensors up to 5,000 samples/sec
- Support for latest sensors (e.g. High Performance Infrared Moisture and Optical Caliper sensors)
- Supports new On-Line Spectral Analysis Package for sensor signals
- Improved sensor/scanner diagnostics package and configuration tools
- Greatly improved alarm and event handling for diagnostics
- Significantly improved backup and restore functionality
- Significantly improved software update functionality
- Reduced training requirements
- Compatible with ABB QCS LAN applications



Overview

Cost-effective lifecycle support and evolution is extremely important with QCS sensors and scanners given the mission criticality of the systems, the importance of using of new sensor and signal processing technologies for competitive advantage and the need for minimized downtime on the machine to execute an improvement project.

ABB provides an upgrade path which allows the evolution of your existing Smart Platform technology to the latest Network Platform technology with a cost and downtime-efficient upgrade. This upgrade allows you to take advantage new platform software, signal processing and sensor support features, without the need for replacing the entire scanning platform. It also allows you to take advantage of new sensors designed for the advanced computational and signal processing capabilities of the Network Platform architecture.

Scope description

Network Platform structure, mechanical drive system and cabling is functionally identical to earlier Smart Platform designs. The upgrade takes advantage of this, which means that only specific components of the system need to be replaced.

The SP-NP upgrade provides a kit to upgrade the computer and data acquisition hardware that resides in the end column of the Smart Platform scanner (or remote junction box) known as the ASPC (AccuRay Smart Processing Center). It also provides for the new embedded software in that device. The new service workstation software required for configuration and troubleshooting of the new ASPC is available as a separate feature or via sentinel. The new ASPC comes as a rack of computer and data acquisition boards complete with backplane and some extender cables in case they are needed for the existing cabling in the scanner.

The new Network Platform ASPC supports most sensors currently in field operation. To ensure the most rapid and high quality installation, the new Network Platform ASPC embedded software comes preconfigured from the factory based upon the sensor specification generated after the project kickoff meeting.

Certain article numbers will be specified prior to order for upgrade modules for specific sensors as required (e.g., Pre-004 ASPC Backplanes require new sensor cables).

During the downtime for the system upgrade, the new ASPC will be installed and connected, energized and thoroughly checked prior to release for service. This includes sensor, scanner and interlock operation as well as host system communications and diagnostics. Additionally, a thorough checkout of the scanner diagnostic tool will be done to ensure trouble-free operation.

Specifications

After upgrade, scanner conforms to Network Platform specifications - see data sheet 3BUS 210 039 R0001 for details.

3BUS 002 549 R0001

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