NINETEENTH ANNUAL Burn-in & Test Strategies Workshop

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Archive



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Poster Session



Medtronic

Burn-In Automation in Manufacturing

Lisa Begin, Robert Burton, Barry Schader, Bill Schatz Medtronic Tempe Campus

Executive Summary

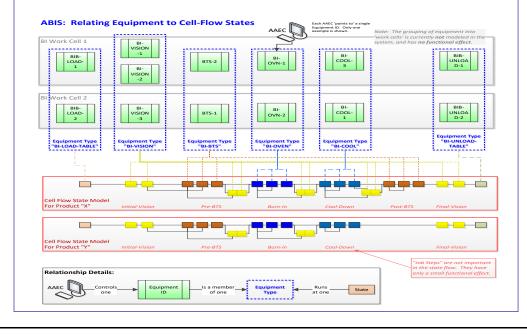
The Automated Assembly Equipment Controller (AAEC) facilitates the interaction between the Burn-In system and the Manufacturing Equipment System (MES). The interaction is to provide MES functionality, including product traceability and material consumption, as they move through the Medtronic Tempe Campus (MTC) manufacturing line. The Assemblers interact with the user interfaces to monitor and/or manage the system during normal operations.

The Problem

The burn-in process is currently our most manual, error-prone process. There is no electronic traceability, no automation, and data is collected and managed by hand.

The Process

The burn-in workcell consists of 5 main processes: (1) BIB Loading, (2) Pre-Screening, (3) Burn-In Oven, (4) Post-Screening, and (5) BIB Unloading.



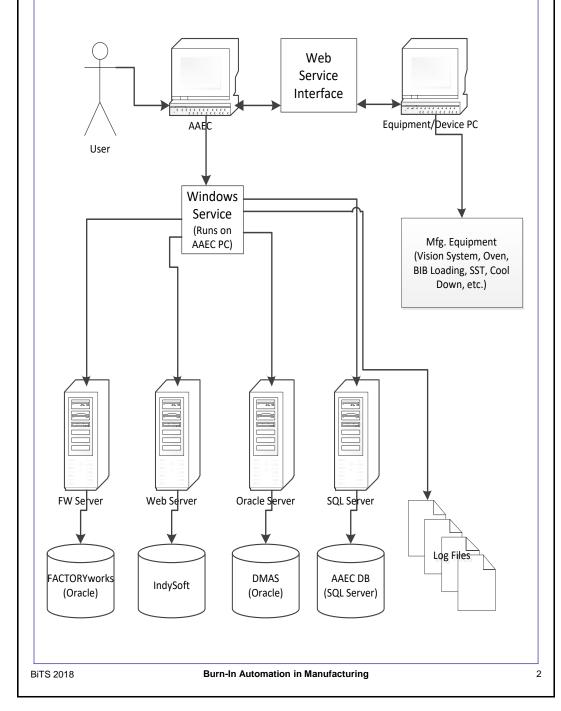
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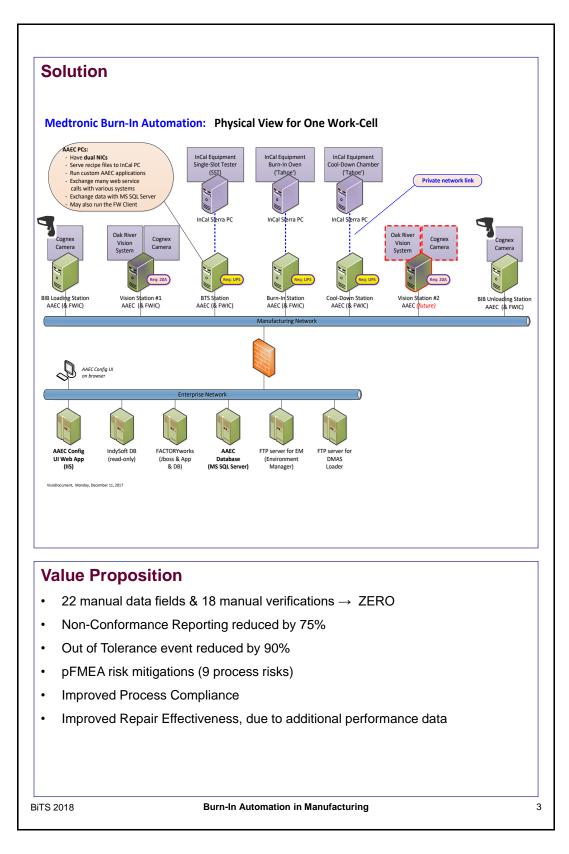
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Solution

The AAEC is the primary user interface, acting as an intermediary between each process. Over 30 workflows are mapped within the process depending on various process deviations and are configurable based on product requirements.



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