

Process -Technology 1 – Paperless Quality Management

Paperless quality management refers to the use of digital technologies and software solutions to streamline and optimize the processes involved in managing and ensuring the quality of products or services within an organization. Traditionally, quality management systems relied heavily on paper-based documentation, manual record-keeping, and physical inspections. However, with the advent of digitalisation and advancements in technology, organisations are increasingly adopting paperless quality management systems for improved efficiency, accuracy, and accessibility.

Pros	Cons
<ul style="list-style-type: none"> • Free operators up to work on more value-add activities. • Accurate and complete production records. • Drive quality and process improvements. • Operator mobility. • Enforce and verify quality checks. 	<ul style="list-style-type: none"> • Additional hardware required. • Changes to the process steps will require changes to the data capture. • Operator change management.

Technology Cost range: \$20,000 - \$50,000, depending on the complexity of the use case, number of processes being digitised and available platform integration.

DMC Technology Cost: \$25,000

DMC Cost Assumptions:

- Limited to 4 paper-based processes being digitised and automated.
- Existing Process Historian and MES integration.
- Internal costs for end user staff involvement have not been included.
- Single design and build iteration.

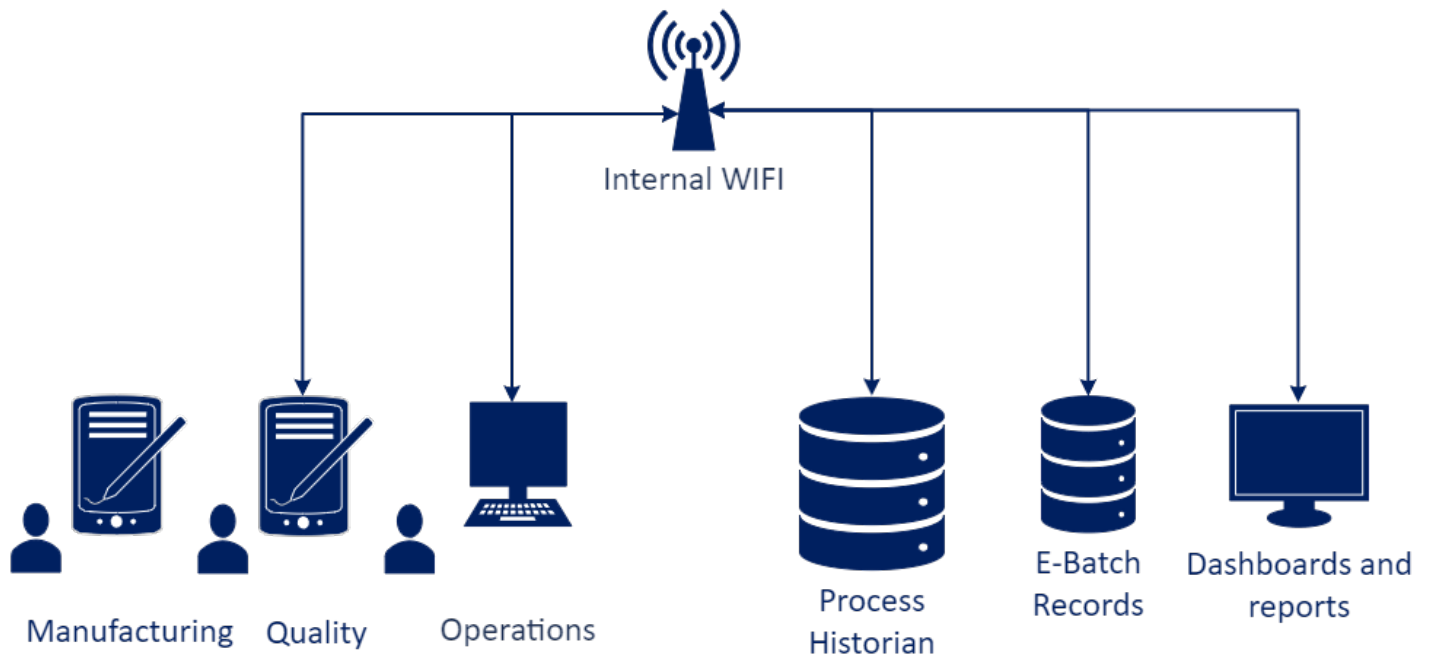
What situation would this technology usually be adopted in? Digitised production data capture forms streamline data collection on the shop floor, replacing paper-based forms with electronic records. This technology improves data accuracy, accessibility, and analysis capabilities, enabling monitoring of production processes and performance metrics.

RoI Considerations: Costs may include software development or license fees, implementation, and training expenses. Benefits may include reduced data entry errors, improved data accuracy, and enhanced decision-making capabilities contribute to ROI. Digitised production data capture forms enable real-time monitoring of production processes, facilitating timely decision-making and process optimisation.

What skills are required to implement & run this tech? Staff should be trained in data capture software usage, data entry accuracy, and process monitoring procedures. The Quality team would typically be the owner of a solution like this.

Pre-requisites for successful adoption: Preparation involves assessing data capture needs, identifying process monitoring requirements, and selecting suitable software solutions.

Typical Tech Stack



Who can help with this technology? MES consultants, System Integrators, software vendors, and data analysis experts can provide guidance on data capture form, activity scheduling and reporting implementation.

What to google when researching this technology? Research topics include quality data capture software platforms, integration options with MES systems, and data security standards.