

THE 6 STAGES OF QMS EVOLUTION



STAGE 1 AD-HOC

- ▶ Paper-based solutions
- ▶ Email & fax communications
- ▶ Manual data capture
- ▶ Manual reporting

Quality management is comprised of **fragmented processes**.

Data collection is **manual and paper based**.

Communication is through email and fax.

Such an organization **doesn't have access to quality data** to make actionable business decisions.

Electronic quality data capture exists, but possibly **only in spreadsheets**.

Quality systems extend to some **supplier management functions**.

No specialized quality management software to aid compliance and increase efficiencies.

STAGE 2 MANAGED

- ▶ Electronic data capture & spreadsheets
- ▶ Siloed quality processes
- ▶ Supplier agreements
- ▶ Minimal integration

STAGE 3 AUTOMATED

- ▶ Integrated on-premises
- ▶ Process standards and efficiency
- ▶ Compliance focus
- ▶ Global deployment

On-premises quality management software has been adopted and there is governance for most quality process standards that lead to streamlining of **product compliance**.

Quality data is accessible, but **not easily correlated for decision-making**.

QMS software is a hybrid of on-premises and cloud, **benefitting from adding capabilities to your core on-premises QMS** via integrated QMS via integrated SaaS modules.

This can **allow for a secure extension of your QMS** to suppliers, vendors and 3rd parties, or adding further processes like complaint handling, quality risk management, product registration tracking or supplier quality management.

STAGE 4 EXTENDED

- ▶ SaaS / On-premises
- ▶ Hybrid deployment
- ▶ Reduced infrastructure
- ▶ Supplier integration

STAGE 5 CONNECTED

- ▶ SaaS
- ▶ Process integration
- ▶ Quality data management
- ▶ Quality reporting & analytics
- ▶ TCoQ focused

Highly intentional and **globally harmonized quality management systems**, including reporting and analytics for quality data that can lead to business decisions.

Processes are integrated with suppliers throughout the value chain.

Best-in-class quality management leveraging the latest industry **4.0 technology**.

QMS software is **cloud-based and includes elements of IoT and artificial intelligence** (machine learning and natural language processing), **to make proactive and predictive quality decisions**.

By connecting quality data and decisions across manufacturing operations and enterprise systems to **detect process and product deviations or nonconformances in real-time**, organizations stand to **improve operational stability, predictability and efficiency**.

Quality is integrated across the organization as a cultural value, enabling collaboration as a fluid way of working, to achieve positive business and customer outcomes.

STAGE 6 PROACTIVE

- ▶ Quality 4.0
- ▶ IoT, AI, machine learning
- ▶ Value chain integration & collaboration
- ▶ System interoperability
- ▶ Proactive & predictive quality
- ▶ Continuous improvement

Learn how to **build a compelling business case** to support your QMS goals

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