

Traceability

MES Based Defect Elimination Solutions

Effective production

Real time production defect elimination



e-Factory
Partner Product



Detect issues as they occur and determine responses immediately



Bidirectional communication provides process interlocking, not just traceability



Combines traceability with quality management, production management and logistics



Designed to operate with virtually any IT system and machine types

Prevent problems before they start

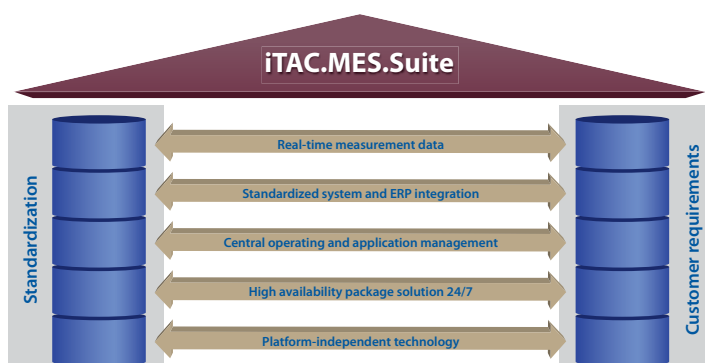


Detect defects before they interrupt production

Nowhere to hide

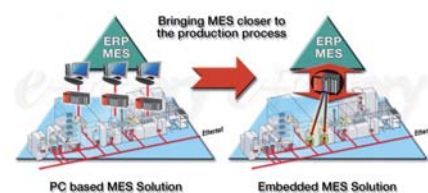
Maintaining the correct level of quality is a mission critical concern for any business. Failure to deliver it can have multiple negative consequences; financial losses, regulatory penalties and perhaps worse of all, loss of market confidence. Once a company's image is damaged, it can take years and huge investment to repair it, with the associated loss of growth.

Thankfully, there are ways to prevent these situations from ever getting to this level. iTAC Software's MES Suite is an effective way to implement a comprehensive interlocking traceability solution that does not just detect problems, but actually provides ways to address them in real time. Rather than just provide passive traceability, the iTAC solution instead provides "active Traceability", working at the MES level to insure problems are detected and addressed before serious issues can occur.



A comprehensive traceability solution

iTAC has joined the e-F@ctory Alliance to further support the goal of extending Mitsubishi Electric's own solutions by combining them with complementary best in class solutions from third parties. iTAC's MES Suite is a complementary match for Mitsubishi Electric's MES Interface IT. This module for the iQ Platform provides a simple and quickly deployed information channel directly from the shop floor to enterprise IT. No intermediate PCs are required, meaning the solution is robust and free of the maintenance and security issues that typically affect PCs. Hence the required traceability information is readily made available to the iTAC system.



The MES Interface IT provides a robust foundation for the iTAC solution

Effective Production

The iTAC MES Suite is a comprehensive solution that integrates all aspects of the manufacturing process. The end result is more than just traceability; it allows quality to be optimized while also increasing productivity. The suite divides into four key areas:

■ Traceability (TR service)

This provides a comprehensive level of traceability, providing management with the knowledge of what order, at what time, on which machines, using which supplier lots a problem has arisen. By being integrated into the MES level, all necessary quality data is readily available, and this can then be reconciled against the stream of data from the shop floor via the MES Interface IT. Hence issues are detected in real time and addressed before they become serious and "Active Traceability" is enabled.

■ **Quality management (QM service)**

The quality management service acts at the resource, product, fault and measurement value levels, to provide a high degree of transparency into the current state of the manufacturing process.

■ **Production management (PM service)**

Using integrated production and machine data collection, enabled by the MES Interface IT, the PM service permits key performance indicators such as overall equipment effectiveness to be monitored and corrective action to be taken as appropriate.

■ **Material logistics (ML service)**

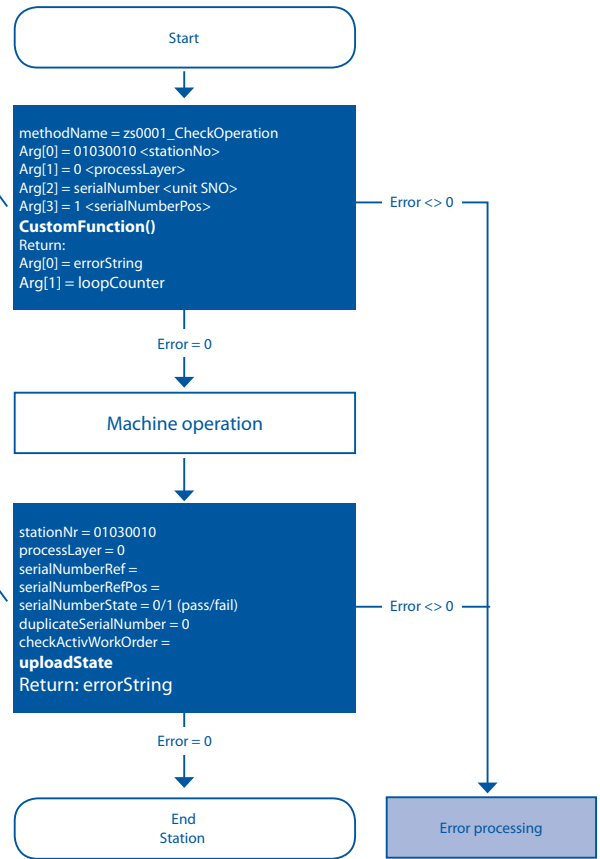
Monitor the consumption of raw materials and other process consumables to track work in process while reducing administrative overheads and ERP deviations.

Simple configuration

The iTAC solution is designed to be simple to set up with the minimum of engineering time and investment. Rather than having to write programs, and simple parameterization method is used, combined with a flow chart approach.

Check unit serial number if permitted to be here and all other conditions are met. This is a custom call. Built on top of the generic API

This call is to report pass/fail for the product.

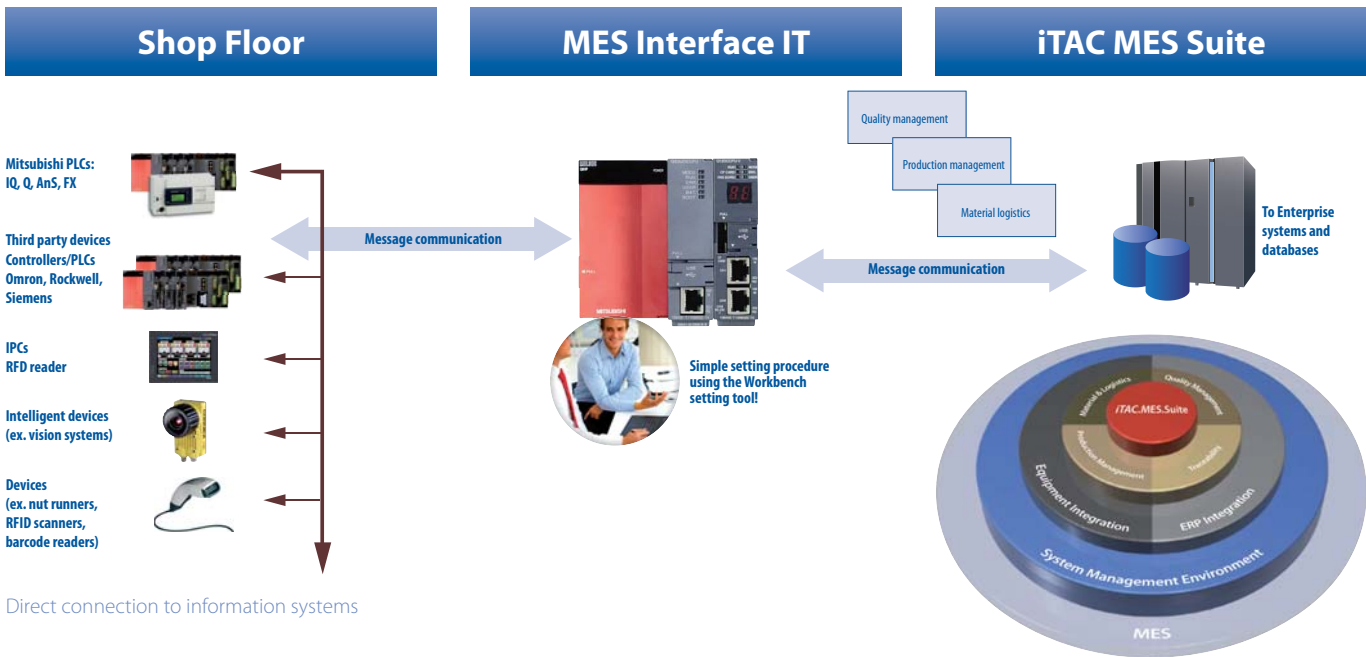


Simple, parameterized flowchart set-up



iTAC is supported by a continuous product development process

Connectivity ///



Direct connection to information systems

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