

# MES IT

## SHOP FLOOR MES INTERFACE

**Shop floor to top floor**  
**Integration in less than 10 minutes**



Capture production data at every stage for business and MES systems



System parameterization means no programming

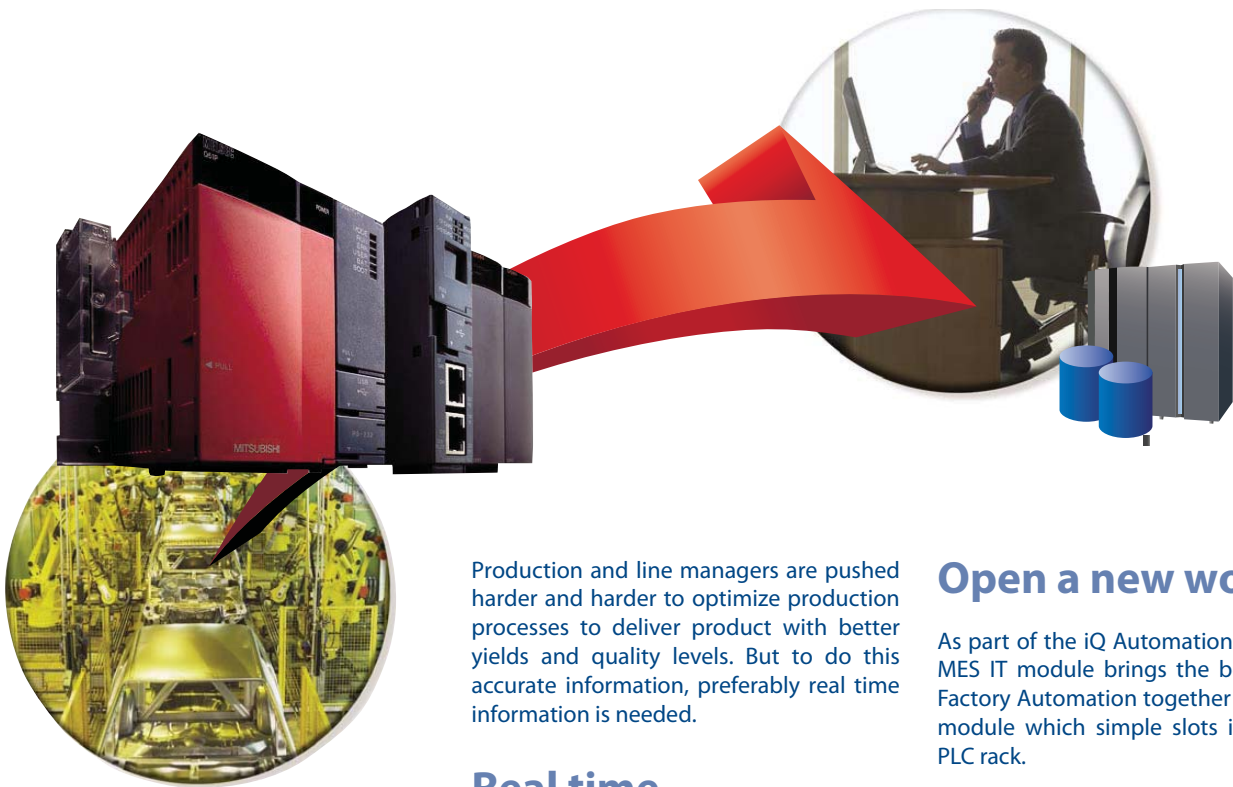


Easy connection to database and information systems



Wide range of drivers means you can connect to third party products such as PLCs, Vision systems etc.

# Real time decisions from real time data



Direct connection to information systems

Production and line managers are pushed harder and harder to optimize production processes to deliver product with better yields and quality levels. But to do this accurate information, preferably real time information is needed.

## Open a new world

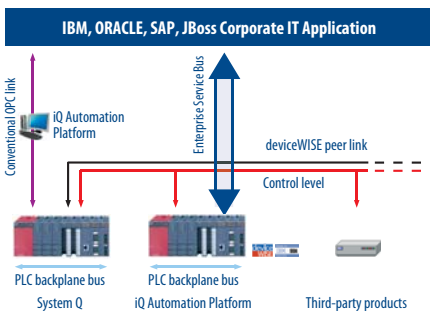
As part of the iQ Automation Platform the MES IT module brings the best of IT and Factory Automation together in to a single module which simple slots in to your iQ PLC rack.

## Real time information < 10 mins

Real time information traditionally meant big costs, big IT systems and big implementation times. Now, through Mitsubishi's collaboration with ILS Technology, Plant engineers can install a MES Interface IT module and have communication working between "shop floor and top floor" in less than 10 minutes.

It benefits from the high reliability and operational life expected from industrial hardware combined with the flexibility of configuration instead of tedious programming.

This enabling technology opens up your shop floor devices to provide a flood of easily selectable real time data directly in to your local or enterprise information systems and databases.



Communicate with most database and business software

## Parameterize don't program

Sending messages back and forth between plant floor and enterprise applications becomes effortless when programmers have access to the simple menus that are used to configure and parameterize Mitsubishi's MES IT solution. By using this powerful system it takes less than 10 minutes to get data flowing from the shop floor to the target database.

## Security built in

In a world where information and data security is becoming ever more important the MES IT module allows user access to be created according to their information needs. Engineering staff can carry out their normal functions with no risk to IT infrastructures while still allowing IT teams access to automation process data without fear of inadvertently affecting operational processes.

## Connectivity made easy

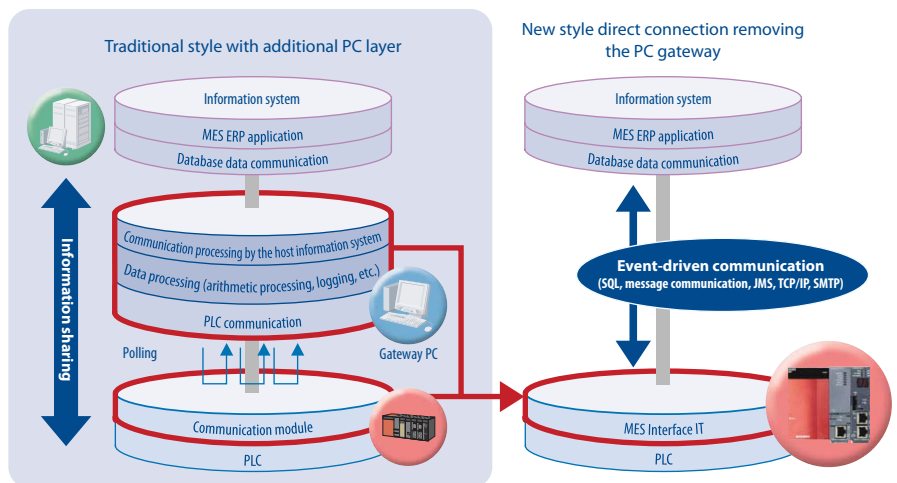
The MES IT module not only provides flexibility in connection to enterprise systems and databases but also for plant floor system components. A wide range of device drivers allows connection to Mitsubishi FA products as well as third party products such as PLCs, Vision systems etc.

## Streamlining business

The result of this deep integration means the business architecture can be simplified. Reduced numbers of field PC's with their inherent overheads in processing, maintenance and reliability which results in significant reductions to infrastructure complexity and cost. Furthermore, this also means implementation is quicker and data resilience is greater as there are less points of failure.



Improved flow of information



Integration between production systems and management systems can streamline business performance

## Modular and scalable

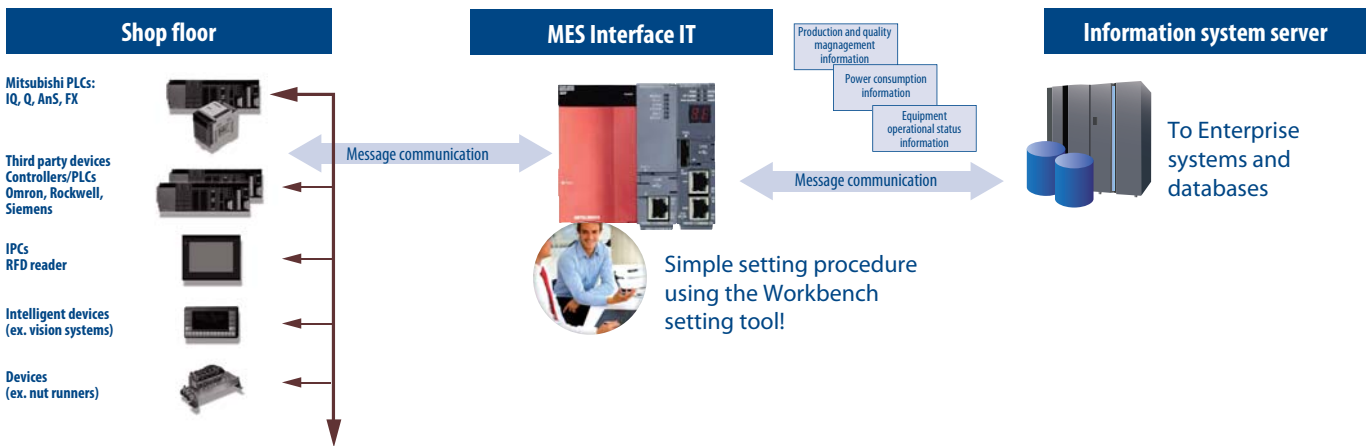
The MES Interface IT solution is a direct data pipeline from the heart of the manufacturing environment into the business and management systems.

It can be easily scaled from a single controller or process up to a complete line or machine. This makes it easy to replace any gateway PC's on a step by step basis.

## Who benefits?

This system solution for full integration of production and business data is aimed in particular at companies in high-tech industries like car manufacturers and their suppliers but also to data rich or data critical production processes found in food, beverage and pharmaceutical industries. In general it is attractive for all companies who need to be able to respond efficiently to rapidly-changing market situations.

# Connectivity ///



Direct connection to information systems

## Terms used:

CRM	Customer Relationship Management
ERP	Enterprise Resource Planning
ESB	Enterprise Service Bus
IBM MQ	IBM Message Queue
JMS	Java Messaging Service
MES	Manufacturing Execution System
PAC	Programmable Automation Controller
PLC	Programmable Logic Controller
ROI	Return On Investment
SIB	Service Integration Bus
SOA	Service Oriented Architecture

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