

# MES IT

## IT INTERFACE MODULE

**Streamline your business  
for improved profitability**



**e-Factory**  
Partner Product



Capture manufacturing and test data at every stage of production for greater quality control



Easy connection to database and enterprise systems in less than 10 minutes

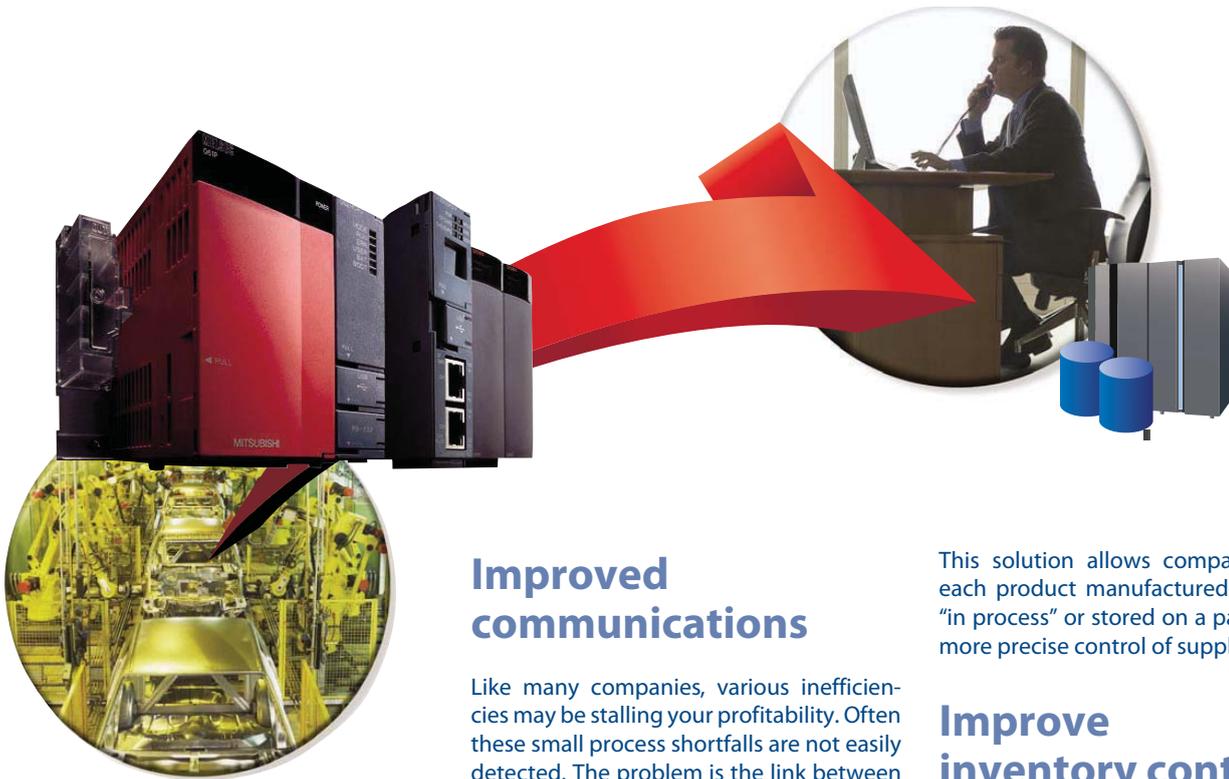


Real time information means real time decisions that can improve profitability



Built in, safe user management control protects systems and data

# Real time decisions from real time data



Direct connection to information systems

## Improved communications

Like many companies, various inefficiencies may be stalling your profitability. Often these small process shortfalls are not easily detected. The problem is the link between the production environment and the enterprise is weak.

That is where the Mitsubishi MES Interface IT hardware, with its embedded deviceWISE core and EZSocket connectivity, helps businesses tap into the data they need quickly, efficiently and securely, so they can make more intelligent decisions and create a clear path to efficiency, peak productivity and effective supply chain management.

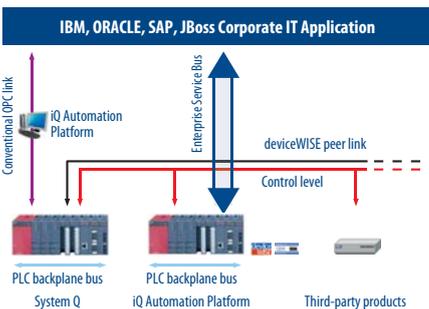
This solution allows companies to track each product manufactured whether it is "in process" or stored on a pallet, enabling more precise control of supply

## Improve inventory control

Software tools and bar codes let you know what the contents of each production unit are and where the unit is placed in storage. When enabled by MES Interface IT, these tools make it easy to maintain a running inventory and quickly find products to fill orders efficiently.

## Avoid recalls

A company's profit's can be severely eroded if, during batch production, defective products are produced unnoticed. By implementing MES Interface IT at line side, it can report information directly back to your database management solution, such as an Oracle, SQL or IBM DB2 database, for use in your ERP and MES analysis tools. ROI can be achieved in a very short time as the exact location of a defective product and the moment the deviation is noted can be found quickly.



Communicate with most database and business software

## Improve tracking

Mitsubishi's MES Interface IT is a part of Mitsubishi's iQ Automation Platform (PAC concept). It can be used to capture information from all sorts of devices including other programmable logic controllers (PLCs) and send it directly to MES and inventory management applications.

## Reduce programming

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 Mitsubishi's MES IT solution to work with database tools such as IBM MQ series applications. Without time-consuming programming, data can be extracted at any time with point-and-click ease.

## Protect systems from failures

PLC technology has long had the reputation for high reliability, and this is especially true of Mitsubishi Electric's. The same is also true of the high availability servers used to host your companies ERP and MES database solutions. By linking these two high reliability systems together using the MES Interface IT users can benefit from the knowledge that their systems have a strong resilience to failure.

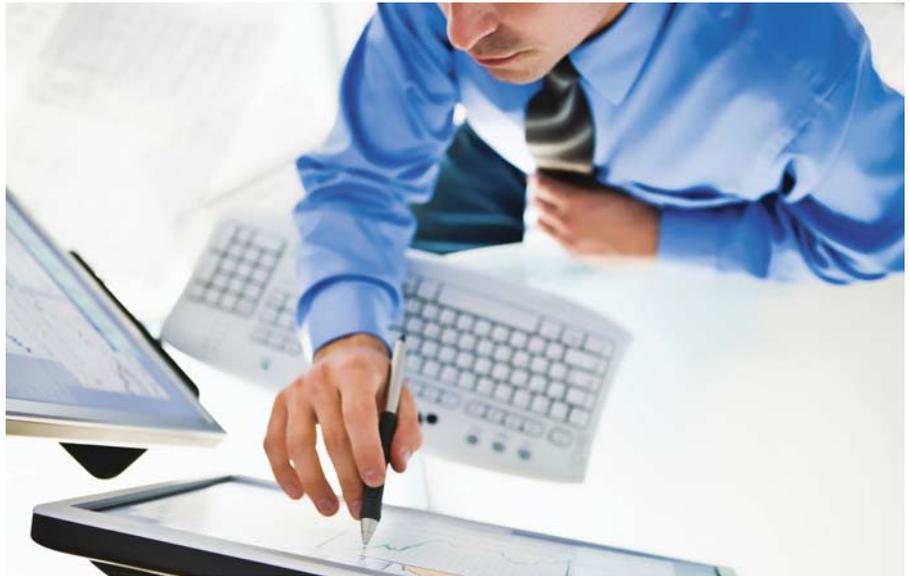
## Security built in

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

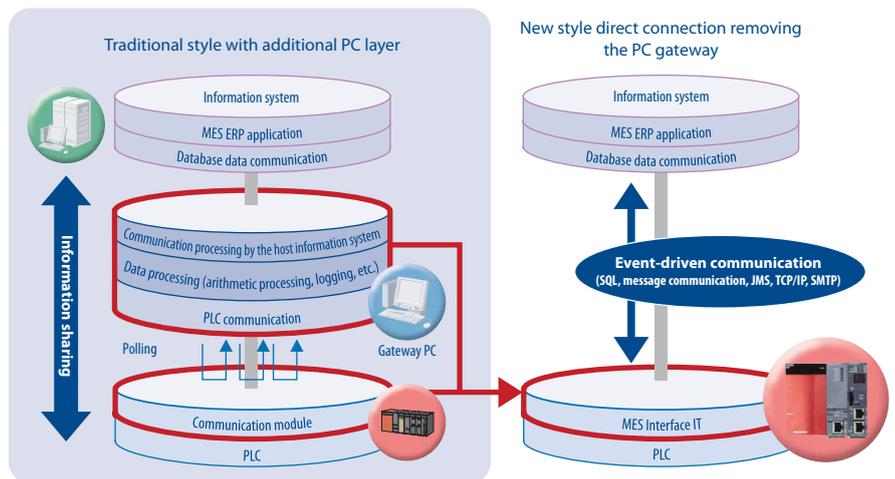
## Streamlining business

The result of this deep integration means the business architecture can be simplified. Reduced numbers of fields 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

## Who benefits?

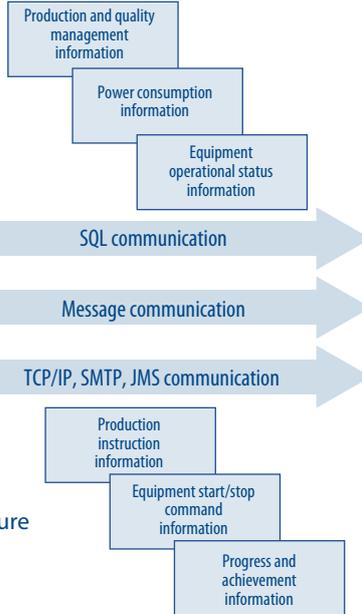
This system solution for full integration of production and business data is aimed in particular at companies in high-tech industries like car manufacturers and their suppliers but also to data rich or data critical production processes found in food, beverage and pharmaceutical industries. In general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

# Connectivity ///

## MES Interface IT



Simple setting procedure using the Workbench setting tool!



## Information system server

### Compatible platforms

- UNIX
- Linux
- Windows

### Compatible databases

- DB2
- Oracle
- MS SQL Server

### Compatible communication equipment

- WebSphere MQ
- WebSphere SIB (JMS)
- TCP/IP
- SMTP
- HTTP

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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