

Overall Equipment Effectiveness (OEE) Reporting Application

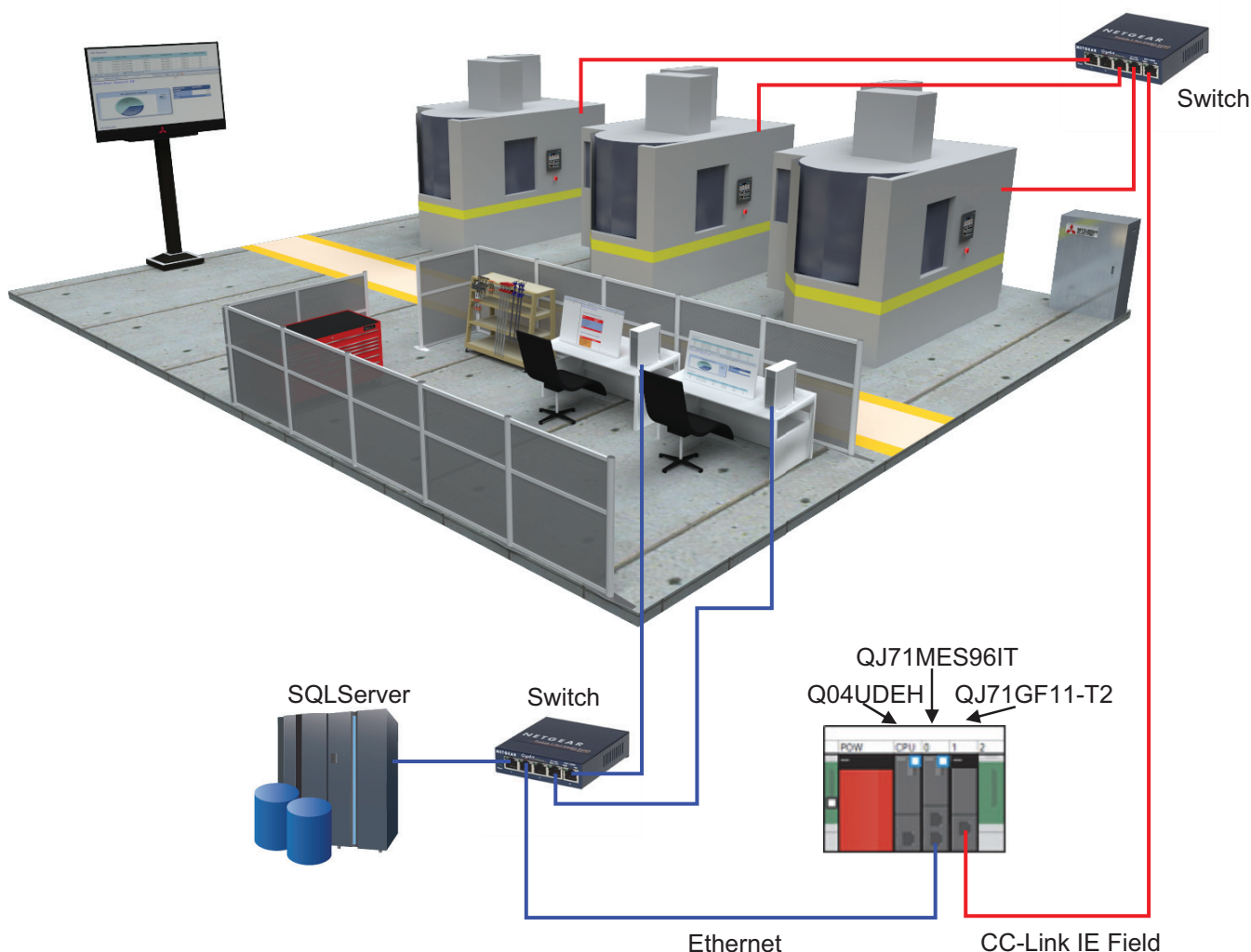
Mitsubishi Solution

PLC: Q04UDEH

Database: Microsoft SQL Server 2008 R2

Interface: QJ71MES96IT

Report Builder/Server: Microsoft SQL server 2008



Example Applications

OEE reporting applications can be used to improve equipment efficiency on the plant floor. It is used in a wide range of applications including:

- ◆ Plant floor information collection
 - Downtime
 - Production data
 - Quality data
- ◆ Part tracking
- ◆ Plant floor & office status boards

Overview

Overall Equipment Effectiveness (OEE) is a measure of how effectively machines are utilized. This information can be used to identify problem areas and bottle necks in the facility.

The OEE reporting application can collect information from individual machines using various networks including CC-Link IE. This data is aggregated into the data concentrator PLC, which then sends the information to a database server using Mitsubishi Electric's MESIT module. The information collected in the database can then be used to create useful reports for improving efficiency. This Mitsubishi solution greatly reduces the complexity of data collection and reporting systems, and increases data integrity and system reliability.

Features

Direct connection to IT systems: No need for gateway PCs or middleware programs to interface plant floor to IT systems



- Reduced system complexity
- Reduced hardware and software costs
- Increased reliability
- Reduced maintenance time & cost

Easy configuration setup: Workbench software can be used to easily configure interaction between the plant and IT systems. No custom programming needed!



- Reduced configuration and setup time
- Easy maintenance

Real time production reports: Pre-made reports featuring production, downtime and OEE reports



- Analyzing and acting on the reports will result in:
 - Reduced machine downtime
 - Improved OEE
 - Greater equipment visibility

Data Store and Forward function: MESIT module will automatically store data locally when there is a connection problem with the server. The system will automatically start forwarding data when connection is restored. No lost data!



- Increased data reliability and integrity



Automatic SQL database and report setup program: SQL server database engine, database, management tools, report server, and reports are pre-configured and installed with a click of a button



- Less hassle
- Reduced setup time

Customer Testimonials

- *“Using the MESIT in our data collection system has greatly reduced the complexity and cost of the system by eliminating the need for a gateway PC and expensive 3rd party middleware applications.”*



Advantages and Benefits