MAPS

Mitsubishi Adroit Process Suite

Reducing your engineering effort and cost
Saving up to 50 %

INTEGRATE — Fully integrated SCADA, PLC solution

EFFICIENT — Integrated document management solution

RAPID ENGINEERING — Integrated diagnostics and maintenance tools

IMPROVED PRODUCTIVITY — Pre-configure and tested engineering libraries

A revolution in Automation Engineering

MAPS Life-cycle engineering

This single integrated package takes users through all the phases of process design, engineering design, control system design, installation, commissioning, acceptance testing and ongoing maintenance; helping to maintain consistency and integrity within an automation system, improving quality and reducing costs.

Standards

In process applications where Mitsubishi Electric PLCs are mixed with SCADA solutions from South African market leader Adroit Technologies, MAPS provides a structured approach to life-cycle engineering. It provides a standards-based approach that reduces the time and effort in automation project development, testing and commissioning phases, with pre-defined and user configurable PLC function blocks and associated SCADA graphics, based on the international S88 and S95 standards.

e-F@ctory Partners

Mitsubishi Electric and e-F@ctory partner Adroit Technologies have addressed the shortcomings of traditional PLC-SCADA integration tools with Mitsubishi Adroit Process Suite (MAPS).

The Product

The Mitsubishi Adroit Process Suite (MAPS) is a life-cycle software tool that offers value along the entire value chain. It addresses the shortcomings of most PLC SCADA integration tools in that it offers value to the engineering and integration phases. It also extends the integrity of the "as delivered" solution and offers customers the ability to handle the normal extensions and maintenance of any automation solution.

Single point of configuration

The MAPS solution provides a structured single point of configuration, deployment and management. Using the MAPS Enterprise Manager allows for bulk engineering and reduced effort through import functions which enable the rapid configuration of the engineering development, SCADA and PLC project, as well as ongoing life-cycle management of the automation solution.
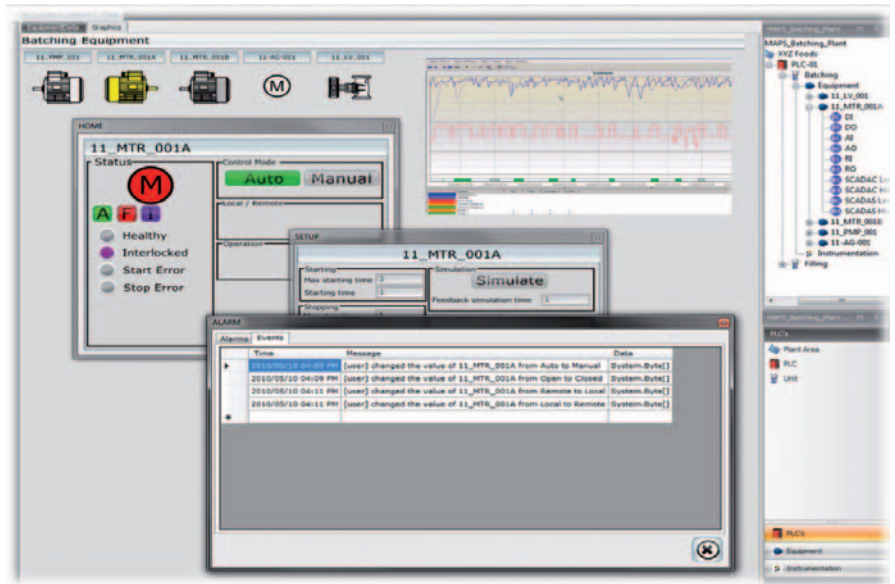
Wizard approach

MAPS provides a wizard approach which can automatically generate PLC and SCADA projects, significantly reducing the time spent on development and configuration. It also ensures a standardised and structured design which eases on-going maintenance of the plant throughout its life-cycle.

Reporting

Another major shortfall of traditional integration tools is the generation of reports. With MAPS, reports covering areas such as I/O schedules, PLC and SCADA tag configuration can be automatically generated. This automatic report generation ensures that the project on handover also reflects the "as built" up-to-date electrical and instrumentation drawings that are aligned to the SCADA tags and PLC I/O. The reports are database driven, so even through on-going maintenance the reports will always reflect the current status of the electrical and instrumentation configuration.

Documentation

MAPS also helps to ensure that project documentation is kept up to date. Throughout the design phases and even as systems are upgraded or modified over time, MAPS provides on-going management of the PLC/SCADA and the plant "as built" electrical and instrumentation documentation. Whether tags are changed in the design, PLC, SCADA or the MAPS management environment, the project ensures that databases and documentation are synchronised. MAPS also offers the ability to centrally back up projects.

MAPS Wizard screen

Mitsubishi Q Series PLC

Benefits

■ **Standards approach to projects**

Pre-defined and user configurable PLC Functionblocks and associated SCADA graphics together with a project structure according to S88/S95 standards reduce engineering time and effort significantly.

■ **Single point of configuration, deployment and management**

The MAPS solution is a structured single point of configuration. Using the MAPS Enterprise Manager, allows for bulk engineering and reduced effort which enables rapid configuration of your engineering design, SCADA and PLC project and on-going life-cycle management of the automation solution.

■ **Automatically generated PLC and SCADA projects to reduce engineering effort**

Cost reductions of between 25 % and 50 % can be achieved when using the wizard approach to projects inside MAPS, allowing the user to benefit from the reduced time spent on development and configuration.

■ **Automatically generated reports**

In MAPS reports can be created, covering I/O schedules, PLC and SCADA tag configuration. As these reports are generated from a database that is constantly updated, reports always show the current status of the configuration. That ensures that the project on handover reflects the as-built up to date configuration of the automation project.
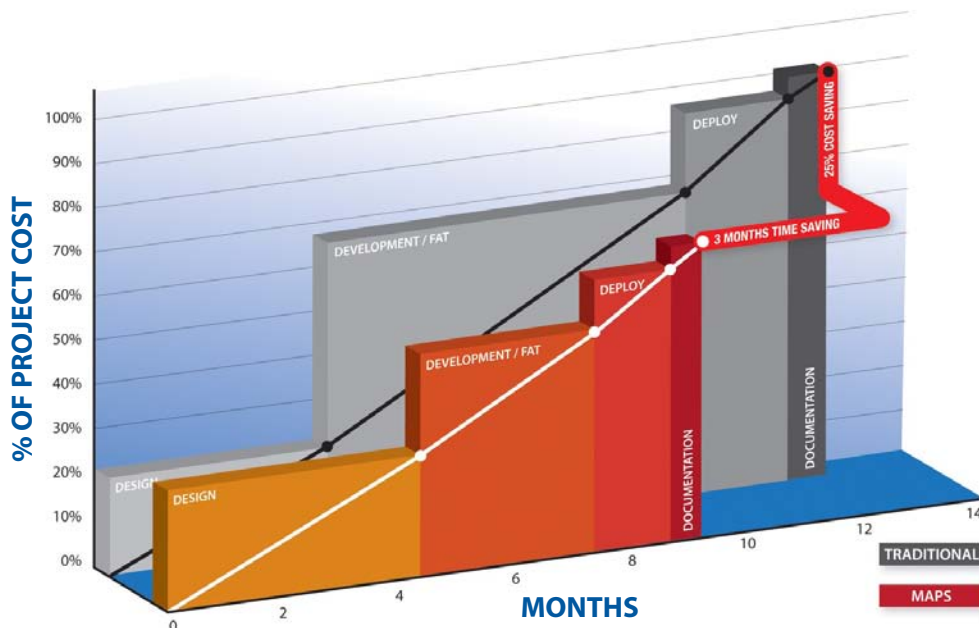
■ **On-going life cycle management**

The MAPS solution offers customers the capability of on-going management of their PLC/SCADA projects and the plant´s as-built electrical documentation. Whether tags are changed in the design, PLC, SCADA or the MAPS management environment, the project ensures that databases and documentation are synchronised.

MAPS cost and time saving benefits ///

In the graph we have the traditional timeline for a standard project implementation for duration of 12-month (1 year).
The white line shows the MAPS solution and the black line shows the traditional solution.
The time is measured against overall percentage cost of the project.