

This solution is at RWM exhibition, NEC Birmingham, Hall 4 – stand C50-D51 from 15-17 September 2015.

Mapping the clearest route to project completion

RWM exhibition, Birmingham, 15.-17.9.2015

Whether it is for a small renewable energy plant or a full-scale power station, often the hardest part of a control engineering project is the start. A popular and market-proven tool from Mitsubishi Electric and its e-F@ctory partner Adroit Technologies not only makes the planning stage easier, but also helps reduce the time and cost to completion of the project by up to 50 percent.

Called MAPS (Mitsubishi Adroit Process Suite), it is designed to address the shortcomings of traditional PLC-SCADA integration tools. A life-cycle software tool, MAPS offers value to the early engineering and integration phases of a project as well as the actual operational stage. It also extends the integrity of the “as delivered” solution, which in turn makes it easier to manage the normal maintenance and likely later changes to any automation solution.

In order to keep the use of MAPS as straightforward as possible, it is based on a wizard approach which can automatically generate PLC and SCADA projects. This significantly reduces the time spent in the early stage of a project on development and configuration. It also ensures a standardised and structured design which eases on-going maintenance of the plant throughout its life-cycle.

With MAPS, information is automatically collected and updated as the project develops so that reports can be automatically generated covering areas such as I/O schedules, PLC and SCADA tag configurations. This sort of detailed information is hard to co-ordinate manually when engineers are also busy designing systems.

This automatic report generation ensures that the project on handover 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.

MAPS brings many benefits to project management. For instance it encourages a standardised approach to be developed and maintained throughout a project. It also ensures a single point of configuration, deployment and management, which leads to a reduced engineering effort required to complete the project. Finally, having all of a project’s documentation complete and correct ensures that the on-going life cycle management is as straightforward as possible.

Once the systems are in use MAPS also helps to make sure that documentation is kept up to date, even when systems are upgraded or modified. In short MAPS provides on-going management of the PLC/SCADA electrical and instrumentation documentation so that it is always up to date and an accurate record of the control system as it evolves over time.

The solution can be seen at RWM exhibition, NEC Birmingham, Hall 4 – stand C50-D51 from 15-17 September 2015, where Mitsubishi Electric’s experts will also be on hand for detailed discussions if required.

Image caption:



Picture 1: With MAPS, information is automatically collected and updated as the project develops so that reports can be automatically generated covering areas such as I/O schedules, PLC and SCADA tag configurations.

[Source: Mitsubishi Electric Europe B.V.]

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Note to Editor: if you would like the text in another language please contact Philip Howe at DMA Europa – philip@dmaeuropa.com.

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e-F@ctory is Mitsubishi Electric's integrated concept to build reliable and flexible automation systems that enable users to achieve many of their high speed, information driven manufacturing aspirations. Through its partner solution activity, the e-F@ctory Alliance, and its work with open network associations such as the CC-Link Partners Association (CLPA), users can build comprehensive solutions based on a wide ranging "best in class" principle.

In summary, e-F@ctory and the e-F@ctory Alliance enable customers to achieve integrated automation solutions but still retain the ability to choose the most optimal suppliers and solutions.

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With around 124.000 employees the company recorded consolidated group sales of 39,3 billion US Dollar* in the fiscal year ended March 31, 2014.

Our sales offices, research & development centres and manufacturing plants are located in over 30 countries.

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