

SattEvolution News, December 2014

ABB – The best partner for evolution of ABB products and systems!

Success for Satt Rack I/O based PLC/ Controller evolution to AC800M Controller.

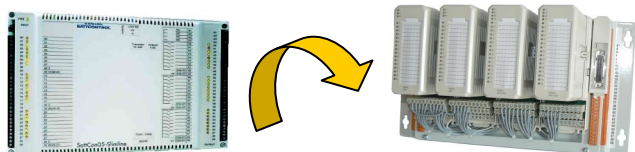
Since the release of the CI865, the SattCon/Series200 I/O communication unit for AC800M, more than 700 pcs of CI865 units have been installed in customers automation installations globally. In average this means that approximately 100.000 Satt I/O channels are today connected to AC800M Controllers.

Further this means that at least 700 Satt PLC or Satt DCS Controller have been evolved to AC800M Controllers and the controller application have been evolved by either application conversion or redesigned application programs to System800xA Control BuilderM.

Customer benefits:

- Cost effective solutions
- Minimized downtime and disturbances
- Re-use of the existing I/O's and it's wiring
- Extremely safe and short commissioning
- Extension of the Controller/PLC Life Cycle

Form-Fit evolution for SattCon05 PLC I/O



The S805 is an I/O replacement unit used to replace a SattCon SC05 I/O unit with S800 I/O and is produced in several versions, depending on which SC05 I/O unit is intended to replace. The units are made with exactly the same dimensions and connections as the corresponding SC05 I/O unit, thus making the exchange very fast and safe. The connectors are completely plug-in compatible.

There are also I/O replacement units available using ABB AC500 PLC I/O hardware for the same form-fit evolution.

Customer benefits:

- Cost effective solutions
- Minimized downtime and disturbances
- Re-use of the existing wiring
- Extremely safe and short commissioning
- Extension of the I/O Life Cycle

Success story Arlöv Sugar Factory; evolution of SattLine to System800xA with Extended Operator Workplace (EOW)



During late 2014 ABB commissioned a System800xA installation evolved from SattLine DCS at the Arlöv sugar refinery (Sweden). The factory belongs to Nordic Sugar a member of the Nordzucker Group.

The System800xA running the factory today consist of 16.500 I/O channels, 8 pcs AC800M Controllers, 14 pcs Operator/Engineering stations in addition to 2 pcs EOW with integrated life video (CCTV) and ABB Smart Client functionality on office PC.

About 85% of the SattLine DCS Controller application has been automatically converted to System 800xA Controller code using the SattLine Conversion Tool.

Customer benefits:

- Extend automation system Life Cycle
- Increased production capacity and system availability
- Re-use of the existing I/O and wiring
- Modern operator environment
- ERP connectivity and Batch management



Satt products Life Cycle status update.

Many types of the Satt System/PLC products are either already obsolete or about to become obsolete in the coming years.

Satt System/PLC products still in the Active Life Cycle phase:

- SattCon 200 PLC hardware/software
- Series200 DCS Controller hardware and I/O
- SattLine DCS software vers. 2.4-7
- SattBus/Comli - hardware/software

Satt System/PLC products where it is high time for evolution to a newer ABB system.

- SattGraph5000 Scada system
- PcManager Scada system
- Advant Controller AC250/AC800C
- DOX5 based PLC products
- SattCon05/OP45 PLC family (SlimLine type)

Satt products that will remain available as spare parts for several years to come, but may be considered for evolution if the plant automation needs to be restructured:

- Rack I/O 19inch

Please observe that above statements about life cycle of a product always refer to the latest version. Other older versions may already be Obsolete. Always carry out a thorough Life Cycle Analysis to examine the exact status for the installations.

New version of the SattLine DCS Conversion Tool

Proven solution:

The SattLine evolution concept has already been used by several SattLine installations in different applications like Food & Beverage and Power Generation.

With the new version of the conversion tool we now have a very efficient SattLine DCS evolution path to System800xA vers. 5.1 with PG2 graphic editor.

The Controller application software can be transferred to System800xA Control Builder with a combination of automatically conversion and manual work. The application software including all trimmed process parameters can be re-used by the efficient import to Control Builder.

This tool will in most cases save more than 70% of the work that would otherwise be needed.

The re-use of the existing I/O and it's wiring, makes the upgrading very fast and safe. Expansions can be made by adding new S800 I/O or AC800M modules.

Customer advantages:

- Cost effective solution
- Minimized downtime during changeover



Automation Sentinel - good business for Satt installed base.

Satt products and systems like, SattLine DCS and SattGraph5000 Scada, are covered by Automation Sentinel.

Several customers have made use of this offering and prolonged the life cycle of their installations, increasing availability, reducing risks and add service years to the lifetime of the ABB control system.

In Germany this generated ABB Automation Sentinel order intake for over 80 kEUR from two customers for the installed SattLine DCS, evolving from WindowsXP to Windows7 version.

ABB's solution is best because:

Maintain operation and avoid loss of production - Higher productivity through enhanced software functionality

Manage life cycle costs - Yearly subscription provides predictability for plant precise budgeting

Continuous optimization of process operations - Improves system availability, performance and reliability

Supports changing business goals with flexible life cycle support - Introduce new technology at the customers own pace

Complete flexibility - Improve the control system over time. Always the best, lowest risk path forward

Protection of intellectual property - The operator graphics and control programs are protected when new technology is implemented

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Join us on Yammer, post your questions/stories on ABB Yammer
"ABB and former Alfa Laval Automation/ SattControl Automation related Products and System Group"



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