

Control Application Conversion and Enhancement Services

Seamless porting of MOD 300 control applications to the AC800M controller

ABB Control Application Conversion and Enhancement Services provide plant operations personnel with a seamless transition of MOD 300 to the AC800M controller platform.

ABB recognizes that your most important assets are the control strategies that drive plant production and profitability. You have made tremendous investments in their design, implementation and tuning through the years to provide optimal performance.

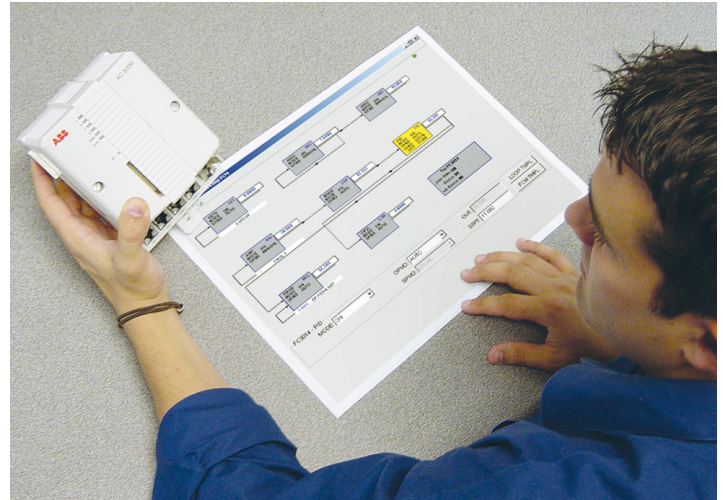
When you change to a new controller platform, you want to be assured that these assets and your investments will not be jeopardized. Only ABB can make such a commitment for its AC800M controller. With the AC800M's standard libraries (CCFLib), 61131 languages (LL, ST and SFC), and ABB's expert engineering services, your MOD 300 application will perform the same as or better than before.

Standard Service

Certified engineers – with both MOD 300 and System 800xA experience – will analyze your control applications and convert a portion of the application to the AC800M. We will review this application pilot with you so that you have first hand understanding of the converted application and the standards that are used in the process. Once your requirements are defined, your complete application will be converted, validated, and delivered with comprehensive documentation.

Enhanced Service

Based on the standard assessment and your business needs, ABB engineers may propose changes for improved maintainability and/or to leverage new AC800M features.



Comprehensive documentation

With the converted application code, you will get extensive and detailed documentation, including:

- IO allocation table
- Task assignment table
- Control logic documentation by Function Designer and by Control Builder
- Loop type test results
- Conversion audit trail
- Library test protocol

Project overview

The control evolution services cover all your requirements during the transition from a MOD 300 based system to an AC800M based system.

Application pilot

The Conversion Pilot demonstrates a conversion performed on a portion of the MOD 300 database. Its goal is to show you the result of the conversion process on your own system, avoiding misunderstandings during the full conversion project.

Application validation

A *loop type test* is performed to check the converted logic by comparing it to the real system's behavior. All the system loops are classified in different types according to the function blocks that they contain and the way they are interconnected.

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Then, one (1) loop is selected for each type (to avoid testing all the loops in the system) and its inputs are simulated to match a set of real values obtained from the original system. The tested loop's outputs are compared to the real ones to verify its functionality.

Availability

This service is available for all MOD 300 controller families including Series 6000 (A, B, C), SC and AC460 controllers.

This service can be performed on any MOD 300 based system, resulting in an 800xA system with AC800M. If the current system is an 800xA for MOD 300, the option of a seamless transition to AC800M is available through a "hot cutover" procedure.

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