

Control Conversion Services - ABB Symphony DCI System Six® to DeltaV™

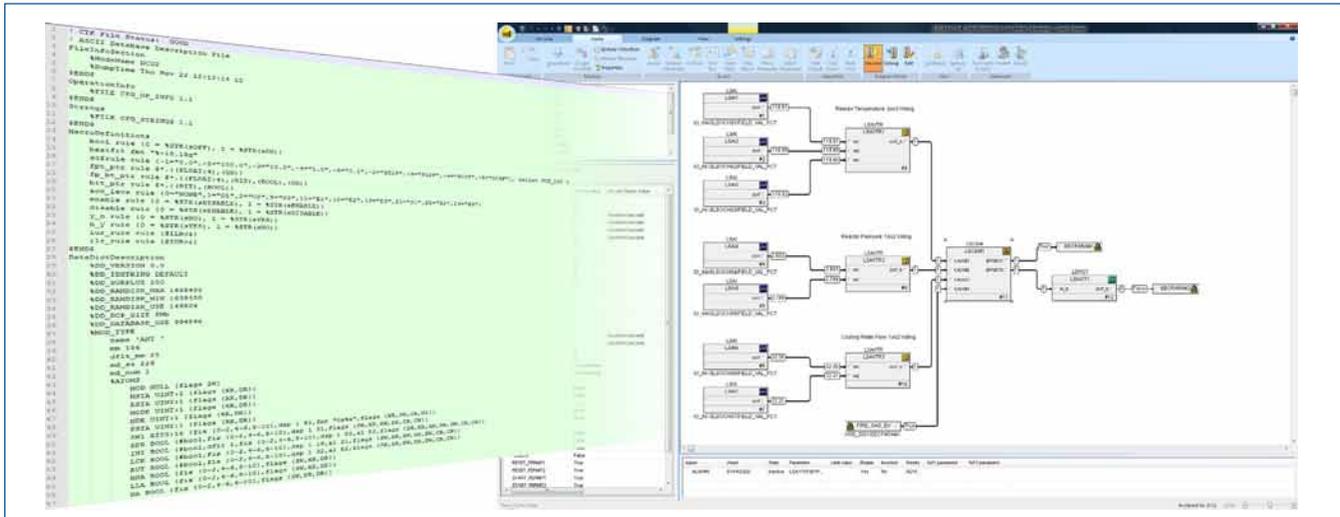


ABB Symphony DCI System Six® ALD code

DeltaV™ Control Modules

- Emerson preserves your valuable investments in logic design and proven functionality.
- Emerson quickly and efficiently upgrades a Symphony DCI System Six control database to a DeltaV control database.
- Engineers with both Symphony DCI System Six and DeltaV experience ensure conversion accuracy and integrity.
- Use DeltaV loop standards or transfer your own plant standards for a smooth transition to the latest technology.

Introduction

When modernizing your plant automation system from a ABB Symphony DCI System Six® to a state-of-the-art DeltaV™ system, accurate control and logic conversion are critical. Emerson offers migration services that will preserve your engineering investments and ensure that the new implementation functions as well, as or better than, the old. Applying conversion utilities, platform expertise and controls know-how dramatically reduces data entry errors and minimizes the risks associated with switching automation suppliers. The controls conversion yields a DeltaV database that is ready to take your process to a higher level of performance.

Benefits

Emerson preserves your **logic design and proven control system functionality**. Emerson understands that the engineering investment in your current automation system represents a huge intellectual asset that has evolved over many years. Protecting the value of those assets is a top priority.



Your new technology then becomes a platform for even higher levels of operational excellence.

Emerson quickly and efficiently migrates a Symphony DCI System Six control database. Emerson's conversion utilities map to standard or customer specific DeltaV control modules directly from a Symphony DCI System Six database, thus reducing the risk of errors associated with manual data entry.

Generation of detailed documentation and logic drawings to assist application engineers with configuration is included. This ensures that logic is implemented using the enhanced capabilities of the DeltaV system.

Expert engineers with both Symphony DCI System Six and DeltaV implementation experience ensure the accuracy and integrity of the conversion. Emerson has a wealth of experience in converting databases from many platforms, including Symphony DCI System Six, to DeltaV systems. Project teams adhere to global standard quality processes and each team includes domain experts who make certain the resulting control configuration meets or exceeds requirements.

Use DeltaV loop standards or transfer your own. Emerson provides a pre-configured set of library modules as standard. Optionally, existing plant loop standards can be integrated into the database to further reduce risk and training requirements.

Services Description

A typical controls conversion project includes the following steps:

- **Analyze Inputs.** Emerson engineers first assess I/O count and types, Symphony DCI System Six function blocks, and application complexity. They verify that proposed DeltaV hardware and software meet the project requirements.
- **Project Kick-off.** Emerson personnel participate in a project kick-off meeting to review project scope, deliverables and schedules.
- **Agree on Standards:** Develop project configuration standards; for example, module naming conventions and whether to use Emerson's standard module library or specify modifications to certain modules.
- **Convert Loop Structures.** Applying pre-defined library module templates for common Symphony DCI System Six loop structures, engineers bulk generate new DeltaV control modules. They generate modules for complex Symphony DCI

System Six loop structures from detailed documentation and graphical loop representations. The resulting DeltaV modules database is then ready to download.

- **Develop Configuration Solutions.** Applying Symphony DCI System Six and DeltaV systems expertise, engineers convert user-defined code, batch controls and special purpose blocks to functional equivalents in the DeltaV system.
- **Test.** Download the complete DeltaV database and perform a functional test of each module type using simulation.

Optional services include these:

- **Site Services.** Automation system installation, commissioning and startup services bring your system online, to the full satisfaction of plant operations and management personnel.
- **Custom Library development.** Incorporating your plant control standards and strategies into the new DeltaV system is facilitated by Emerson's conversion utilities that allow for creating custom library modules.
- **Operator training.** Emerson offers a comprehensive suite of training courses for operators, engineers and maintenance personnel. Traditional classroom, e-learning or custom onsite classes with hands-on practical learning exercises are available to satisfy all your training needs.
- **Simulation services.** Simulation provides valuable feedback for verification of your database and logic configurations. Emerson engineers can help you thoroughly check the new DeltaV configuration with or without DeltaV controllers and I/O.

Summary

By having Emerson transition your configuration, you keep your own staff's valuable attention focused on site priorities. The control conversion service expertly configures your new controllers, minimizes conversion risks, and maximizes engineering efficiency. The resulting DeltaV modules preserve the engineering of your Symphony DCI System Six configuration and enable you to take advantage of the very latest in process automation technology with your DeltaV system.

Specifications

Description	Model Number
Inputs	Completed migration questionnaire and ABB Symphony DCI System Six backup files
Supported ABB Symphony DCI System Six Software versions	DCU3200 – all versions up to S7R1 Harmony DCU – all versions up to SR2.0
Output	DeltaV database. Detailed report files in electronic format
Output file format	DeltaV version 11.3 or later

Ordering Information

Description	Model Number
ABB Symphony DCI System Six to DeltaV Controls Conversion Services Controls Conversion Services	Contact your Emerson Process Management account manager or sales Representative

Prerequisites

- Request a services proposal from the Emerson Process Management sales/services organization.
- Complete a questionnaire detailing the Symphony DCI System Six system and its applications. Capture the current database backup files. Provide both to Emerson on CD-ROM or flash drive.

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