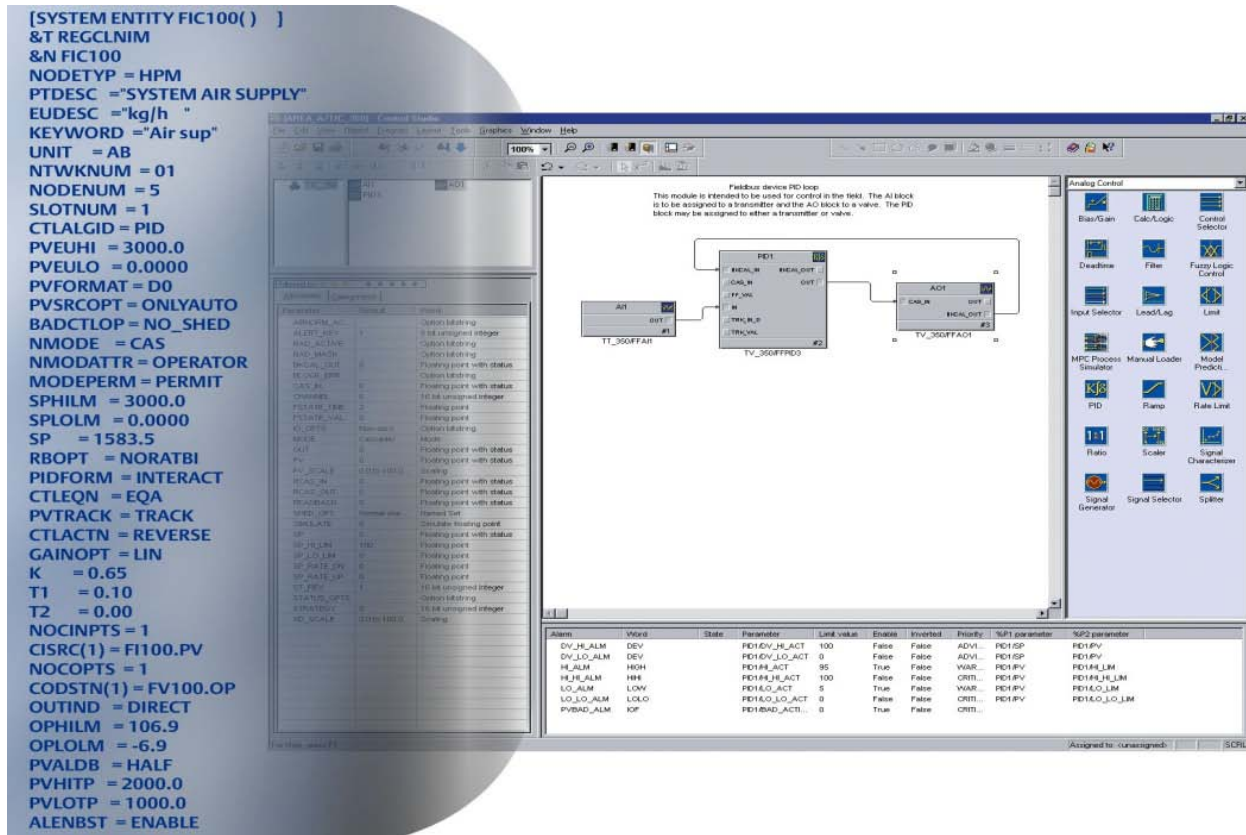


# Control Conversion Services – Honeywell® TDC 3000™ to DeltaV™ Systems



Honeywell® TDC 3000™ EB Files (left) to DeltaV™ Control Modules (right)

- Emerson preserves your valuable investments in logic design and proven functionality.
- Advanced analytical tools and experienced engineers ensure conversion accuracy and integrity.
- Emerson project standards assure high quality.
- DeltaV loop standards ensure smooth transition to the latest technology – alternatively, use your plant or corporate standards for continuity.

## Introduction

When modernizing your plant automation system from a Honeywell® TDC 3000™ to a state-of-the-art DeltaV™ system, accurate control and logic conversions are critical. Emerson offers automated 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 that asset is a top priority. Your new technology then becomes a platform for even higher levels of operational excellence.

**Automated analysis ensures accuracy.** Emerson automated tools

- Analyze your Honeywell EB files,
- Identify recurring loop structures,
- Map structures to DeltaV templates,
- Generate an exception report of applications that are custom (non-recurring), and require manual review and redesign and
- Combine results in a work package for the engineering team.

This analysis reduces manual effort, minimizes risk, and delivers intelligent information to accelerate the controls re-implementation process.

**Emerson project standards assure high quality.** For all aspects of control project implementation, Emerson follows established global standards and best practices. Project teams include engineers experienced with Honeywell TDC 3000 systems and DeltaV experts.

**DeltaV loop standards ensure smooth transition.** Loop standards establish guidelines for consistency in implementing control schemes, alarm management, reports and data for displays. By using DeltaV pre-configured module libraries, engineers establish a database that is relatively easy to maintain. This is the standard practice. As an option, Emerson engineers can incorporate your existing plant loop standards into the database, for continuity.

## Service Description

A typical controls conversion project includes the following steps:

**Capture Configuration.** The customer completes a migration questionnaire, makes a backup of Honeywell TDC 3000 EB files and submits these to the Emerson services team.

**Analyze Inputs.** Emerson engineers first assess I/O counts and types, TDC 3000 points, 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.** The project team proposes configuration standards that will apply throughout the DeltaV implementation. These may include module naming conventions, use of DeltaV module libraries and specifications for modifying certain modules.

**Convert Loop Structures.** Engineers automatically generate new DeltaV control modules by applying pre-defined library module templates for common TDC 3000 loop structures. They generate modules for complex TDC 3000 loop structures from detailed documentation and graphical loop representations. The resulting DeltaV modules database is then ready to download.

**Develop Configuration Solutions.** Engineers apply TDC 3000 and DeltaV systems expertise to convert user-defined code, ladder logic, batch controls and special purpose points to functional equivalents in the DeltaV system.

**Test.** Engineers download the complete DeltaV database and perform a functional test of each module type using simulation.

## Optional Services

**Site Services.** Emerson specialists can install the automation system, commission loops and bring your system online, to the full satisfaction of plant operations and management personnel.

**Custom Library Development.** Emerson conversion utilities enable engineers to easily and efficiently create custom library modules that incorporate your plant control standards and strategies in the new DeltaV system.

**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.

## System Compatibility

Database conversion services for Honeywell TDC 3000 apply to the following devices and point types:

**Data Hiway** LEPIU, LLPIU, HLPUI, DHP, and Basic / Extended / Multifunction Controllers. Also E / PLCG (DHP emulated) points.

**Universal Control Network** PM, APM, HPM, LM.

**Application Module** Most point types.

Inputs are Honeywell TDC 3000 EB files. Outputs are DeltaV electronic configuration files compatible with [DeltaV v9.3](#) or higher.

## Ordering Information

Description	Model Number
Honeywell TDC 3000 to DeltaV Controls Conversion Services	Contact your Emerson Process Management account manager or sales representative.

## Related Services

This service delivers a DeltaV *control* configuration. Emerson also offers efficient engineering services for the DeltaV *operating* environment.

- **DeltaV Display Transition Services for Honeywell Systems.** This service examines existing Honeywell displays to identify vital process representations. This information is then incorporated into new DeltaV display development.

## Related Products

In planning a Honeywell TDC 3000 to DeltaV system migration, you may also want to explore the following:

- **DeltaV Connect™ Solution for Honeywell® Systems.** This DeltaV human machine interface (HMI) connects to the Honeywell LCN. This solution includes hardware, software and services to convert operator interface points, alarms, and process displays.

## Prerequisites

- Request a services proposal from an Emerson Process Management sales office.
- Complete a questionnaire, providing details about the TDC 3000 system and its applications. Capture current TDC 3000 database backup files on CD / DVD or other PC-readable media. Submit the completed questionnaire and backup files to your Emerson sales office contact.
- Attend DeltaV configuration training.

## Related Links

[www.EmersonProcess.com/Honeywell](http://www.EmersonProcess.com/Honeywell)

[www.EmersonProcess.com/ProcessAutomationServices](http://www.EmersonProcess.com/ProcessAutomationServices)

[www.EmersonProcess.com/DeltaV](http://www.EmersonProcess.com/DeltaV)

To locate a sales office near you, visit our website at:

[www.EasyDeltaV.com/reach](http://www.EasyDeltaV.com/reach)

Or call us at:

Asia Pacific: 65.777.8211

Europe, Middle East: 41.41.768.6111

North America, Latin America: +1 800.833.8314 or  
+1 512.832.3774

For large power, water, and wastewater applications contact Power and Water Solutions at:

[www.EmersonProcess-powerwater.com](http://www.EmersonProcess-powerwater.com)

Or call us at:

Asia Pacific: 65.777.8211

Europe, Middle East, Africa: 48.22.630.2443

North America, Latin America: +1 412.963.4000

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