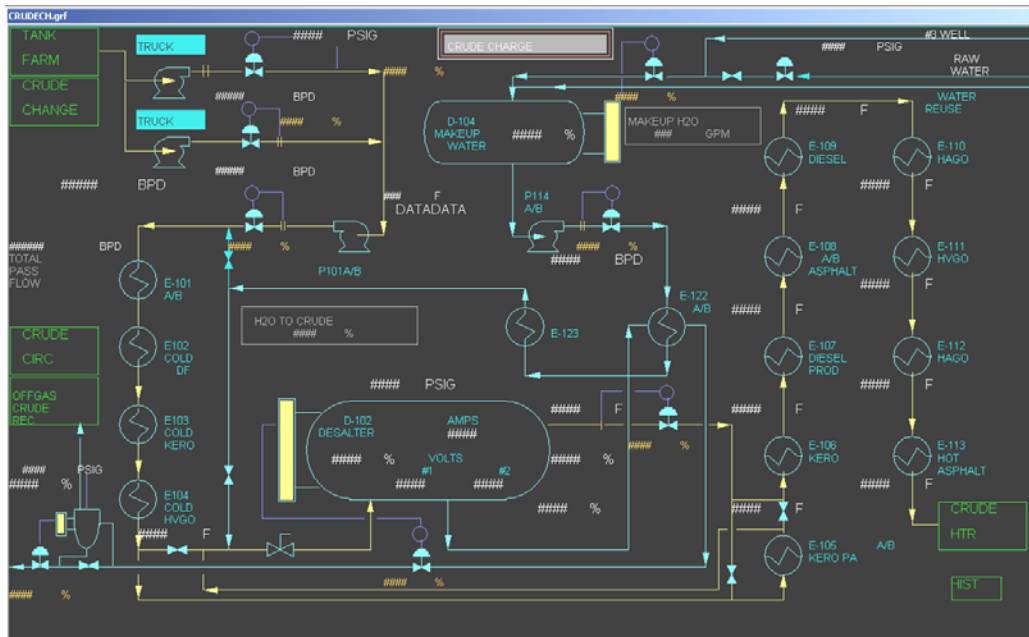




# DeltaV™ Display Transition Services for Honeywell® Systems



This DeltaV™ display looks like the customer's original.

- Delivers DeltaV™ displays with familiar Universal Station/Global Users Station Native Window display features
- Improves operator interface—takes full advantage of new display technologies
- Establishes a plant graphics standard and graphics library
- Employs the services of expert engineers experienced with both Honeywell and DeltaV systems
- Reduces the time, effort, and risks associated with manual display builds

## Introduction

The Universal Station and Global User Station Native Window are operator interface stations for the Honeywell® TDC 3000® and TPS® control systems. These operator interfaces utilize display graphics to monitor and operate the system controlling the process. Emerson Process Management offers Comprehensive and Design level services to meet a variety of transition needs for these systems.

The display transition **Design Service** provides the highest possible benefit when migrating from TDC 3000/TPS to the DeltaV™ system. Taking full advantage of new technologies, graphics standards and on-board DeltaV system capabilities, this service delivers the optimal operator interface for your plant.

In the Design Service, the Emerson Process Management team works with your process and graphics personnel to develop a graphics standard, incorporating the new display technology and your plant operating procedures and philosophies. Using



this new graphics standard and elements from the DeltaV libraries, the team develops your graphics library. Then, they create new DeltaV operator interface graphics to replace the customer's original displays.

The display transition **Comprehensive Service** provides DeltaV displays that are functional equivalents of the original Universal Station process and group displays to DeltaV operator interface displays.

Resulting displays may combine data from both DeltaV hardware controllers and **DeltaV Connect™** Solution for Honeywell Systems interfaces.

The Design and Comprehensive services produce complete DeltaV displays, ready for checkout and use at the plant. For easy maintenance, they are 100% compatible with DeltaV Workspace Configuration Graphics Studio.

### Benefits

**Improved operator interface using DeltaV automation technology.** The transition service takes advantage of the latest in DeltaV operator interface capabilities. Your operators will have a consistent, easy-to-understand, easy-to-use interface to help them run the plant more effectively.

**Makes the most of expertise at Emerson Process Management.** Emerson Process Management is staffed by engineers who know Honeywell and DeltaV systems extremely well and who use that expertise to get the most out of the DeltaV operator interface. They will work with you to create an operator interface that reinforces and supports your plant operating procedures.

**Reduces the time and effort spent on building new displays.** This keeps your people and their capabilities focused on more critical plant priorities.

**Reduces the risk of manually built displays.** All display transition services take advantage of Emerson's automated translation technologies to generate the DeltaV operator displays. These technologies reduce potential errors introduced when manual and repetitive actions are performed in display generation. Traceability insures elements on the

source display are translated to corresponding objects on the generated display.

**Manages the pace of your technology investments** by phasing the upgrades. Immediately deploy new DeltaV operator interface technologies that work with your existing controls, enabling you to plan future automation investments while enjoying the benefits of enhanced capabilities.

### Service Description

Included in all transition services:

- **Expert project management** using certified and proven ISO-9000 methodology.
- **Transition** of TDC 3000 graphics to DeltaV operator interface graphics.

### Options

To enhance your transition project, consider the following service options:

- **Custom dynamic graphic element design.** For improved ease of maintenance of your DeltaV graphic displays, Emerson Process Management can develop customized 2D and 3D graphic elements and DeltaV dynamic objects to replace grouped objects (i.e., subpictures).
- **Development of a plant graphic standard.** This standard will document and describe the symbols, guidelines, color schemes, gray scale, and other conventions that the team develops. It serves as a reference to ensure ongoing consistency as you expand and update the system.
- **Development of a plant graphics library.** Use elements from existing DeltaV libraries with your new graphic standard to generate graphic elements that can easily be reused.
- **Change Zone dynamic graphic design.** When the operational philosophy requires Change Zones, this functionality is provided for DeltaV Operator stations. A custom face plate similar to the Change Zone area is designed to always be on top of the graphic window until the Change Zone Faceplate is closed. Custom faceplates may be built to enhance the Change Zone capability.



- **Easy Substitutions.** Emerson’s automated translation technologies facilitate easy tag and dynamo substitutions. Tag substitutions allow for efficient tag editing. Substituting dynamos for grouped objects extends powerful DeltaV functionality to common display item groups, used on multiple displays.
- **Site Services.** At any time during the development of the displays, site visits may be advantageous. When the display transitions are completed, the displays should be checked out at the plant. Emerson Process Management, Sales/Service offices can provide engineers to assist with or lead this effort. All site work is priced on a time and materials basis.
- **Operator Training.** Emerson Process Management offers comprehensive training for your entire staff, including engineering, safety, maintenance and operations personnel. Emerson’s training formats—eLearning, traditional

classroom, onsite and dynamic simulation-based training—apply “hands on and learn-by-doing” approaches to ensure that you achieve your training goals.

Contact your local Emerson Process Management office for more details about these options.

### Summary

By having Emerson Process Management transition your displays, you keep your own staff’s valuable attention focused on site priorities. When migrating from Universal Station/Native Window to the DeltaV operator interface, the transition service takes full advantage of the new display capabilities and creates a graphic standard and library tailor-made to fit your plant and your operating procedures.

Migration to the DeltaV operator interface reduces the maintenance costs of your current operator interface, while laying a foundation for future technology investments.

### Specifications

TDC 3000® to DeltaV™ Display Transition Service Specifications	
Inputs	<ol style="list-style-type: none"><li>1. Customer discussions and meetings, as well as existing plant standards and conventions concerning graphic displays.</li><li>2. Current Universal Station/Native Window (*.DS) display files in PC format (pre-“Transferred” files from LCN) highly preferred. Acceptable alternatives are LCN formatted files on zip disks (not Bernoulli disks) or Industrial Automation Technology, Inc. (IAT), PE Builder Files (*.wds) files if properly generated using instructions provided by Emerson.</li></ol> <p>Note: Universal Station/Native Window conversion compatibility: R3xx through R6xx</p>
Output	DeltaV display files on CD-ROM media
Output file format	DeltaV version v7.4.1 and later





## Graphic Element Conversion Specifications

Universal Station Graphic Elements Conversion Capability		
Static Item	Dynamic Item	Command/Behavior
Line	Variant	SET
Solid	Target (limited actions)	BEHAVIOUR
Text	Conditional behavior on various objects	FULL
Bar	Subpicture/ phantom and bar are partly dynamic objects	HALF
Subpicture	Parameterized Subpictures	REVERSE
Phantoms (Circle & Quarter Circle)		BLINK
Value		NO BLINK
Scale (operation on objects)		WHITE
		CYAN
		MAGENTA
		BLUE
		YELLOW
		GREEN
		RED
		BLACK

