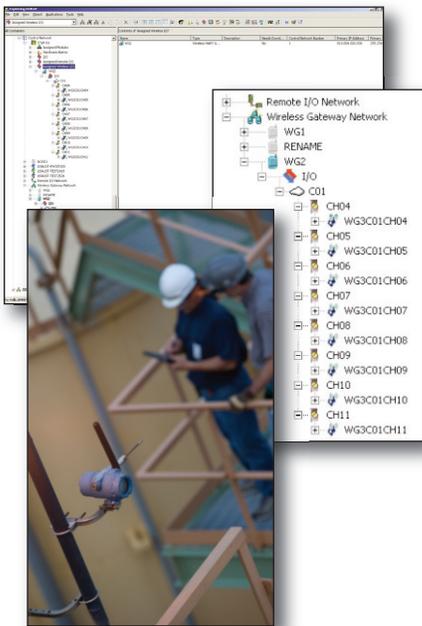


# DeltaV™ v10.3.3i Update

## DeltaV Unplugged Native WirelessHART Integration

For easy field wireless network setup and operation, the DeltaV v10.3 software autosenses the 1420 WirelessHART gateway as a DeltaV node and autosenses the WirelessHART devices as they are added. All HART alerts from WirelessHART devices are available for your predictive operations and maintenance practices, giving you easier and more complete monitoring of your process.



## Increased Performance and Reliability

### Enhanced MQ Controller

A new M-series MQ Controller has been developed and will be supported with V10.3.3i for the first time. This Controller has the same power and heat dissipation specifications as the MD Plus Controller and the same capacity. The memory handling in the MQ Controller has been enhanced.

Running MD Plus controllers can be migrated online to MQ Controllers as they are equal in any regards.

### New High Density Field Interfaces

In addition to the standard field device interfaces, the DeltaV v10.3.3i also supports high density analog and discrete I/O cards and mass connection solutions that can save costs by reducing cabinet footprint, decreasing installation labor and improving reliability.

A 4-wire Terminal Block for the existing Series 2 AI, 16-Channel, 4-20 mA, HART card is now available with DeltaV v10.3.3i.

### HART 7 Support

HART 7 Device Commands were added to the existing Series 2 4-20 mA, HART Analog Cards as well to the new introduced Series 2 Plus 4-20 mA, HART Analog Cards.

### M-series Virtual I/O Module 2

The Virtual I/O Module 2 (VIM2) provides an interface to Ethernet I/O networks and devices that use the Modbus TCP/IP or Ethernet/IP protocol drivers. DeltaV M-series controllers can read and write signals from plant floor devices connected to Ethernet I/O networks such as PLC's, Motor Control Centers, and Weigh Scales.

## Increased Security and Reliability

### Windows 7 and Windows Server 2008

The DeltaV v10.3.3i software now fully tested and certified to run in the highly secure Embedded Windows 7



Professional with SP1 (32-bit) and Windows Server 2008 Standard Edition with SP2 (32-bit) environments, giving you the flexibility you need for your cyber-security efforts.

### Backup and Recovery

Backup and Recovery gives you the ability to easily back up your DeltaV system, AMS Device Manager and other critical files, folders and databases, all with the security of knowing you can recover this data as needed. With Backup and Recovery, you won't have to; you will be able to spend your time focusing on the issues that are important to your plant production. Backup and Recovery is easy to use and offers you one solution for data protection and disaster recovery, all with a single, user-friendly interface. If disaster strikes, you don't have to panic because you can recover quickly and easily as well.

### Configuration Audit Trail

Configuration Audit Trail is a powerful tool that tracks changes and manages revision information for any item in the DeltaV™ configuration database, including Safety Instrumented System (SIS) items.



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This application creates and maintains a configuration change history for configuration items such as modules, SIS modules, phases, operations, unit procedures, user accounts, operator graphics, etc.

### **DeltaV InSight**

With DeltaV InSight's new adaptive control capability, you may never have to retune that problem control loop again. Only DeltaV software automatically learns process dynamics, diagnoses control problems, and re-tunes control loops automatically for optimal performance. DeltaV InSight supersedes DeltaV Inspect and Tune. It provides increased performance and availability for all DeltaV and FOUNDATION fieldbus based control loops with no additional configuration or maintenance effort. DeltaV InSight includes automatic control performance reports that are easily scheduled to provide key performance metrics for efficient operations.

### **Enterprise Historian Integration**

For a complete historical view of all your DeltaV and non-DeltaV operating processes, OSIsoft® Inc's Enterprise PI, now can run in a DeltaV Application Station. Once installed, the "embedded" PI enterprise historian is easily configured and used just like the native DeltaV Continuous Historian.

## **DeltaV™ v10.3.3i Update (continued)**

### **Smarter SIS**

#### **DeltaV SIS Communications**

For large, demanding safety-critical applications, the secure DeltaV SIS communications bandwidth has doubled to simplify engineering and communications between DeltaV logic solvers..

#### **DeltaV SIS Simulation**

For easier logic development, project factory acceptance testing, and ongoing operator training, DeltaV Simulate now extends to DeltaV SIS in standalone and multimode applications. Only the DeltaV system delivers an integrated BPCS and SIS simulation solution using the exact same configuration that is implemented in the plant.

#### **DeltaV SIS / DVC6000 SIS**

DeltaV SIS HART 2-state output now connects with Fisher DVC6000 SIS to provide continuous power to DVC6000 when in the shutdown state. Installation and maintenance are simplified since a solenoid is no longer required to retain power for diagnostics forensics data stored in the DVC6000 SIS.

### **Easier Engineering**

#### **Control Studio Ribbon Bar**

Configuring the DeltaV system is even easier and more intuitive with the quick access toolbar and ribbon. Similar to Microsoft Office 2007 applications, actions are organized by logical tasks and are fully customizable. Productivity-enhancing tooltips and fast keys streamline configuration efforts.

#### **Control Studio Palette**

Function blocks are logically organized in accordion style palettes, which provide views to all available types of function blocks, making single click access to any palette easy.

### **DeltaV Control Studio**

Now you have access to powerful and versatile DeltaV SIS function blocks including the analog voter, discrete voter, cause-and-effect matrix, state transition, and step sequencer blocks for use in the DeltaV controller. Engineering sophisticated control strategies now is faster and simpler.

### **DeltaV/SmartPlant Instrumentation Interface**

For faster project execution, the Intergraph SmartPlant Instrumentation interface with DeltaV v10.3 configuration provides bi-directional exchange of configuration data for DeltaV controllers, I/O cards, I/O channels, device signal tags, and conventional, HART, and FOUNDATION fieldbus instruments: scaling, I/O channel assignment, and alarms limits. FOUNDATION fieldbus configuration includes segment addressing and function block configuration. The bi-directional communication is invaluable for faster project execution, project scope changes, and efficient turnaround planning.

### **DeltaV Simulate**

DeltaV Simulate lets you use all DeltaV software for training and development without purchasing duplicate system hardware. This means you can use exactly the same software provided with your actual DeltaV system at a fraction of the cost. With the simulate suite you can also explore features of the DeltaV system that you have not yet purchased.

### **Recipe Studio Ribbon Bar**

Like DeltaV Control Studio, the ribbon bar organizes Recipe Studio functions by task and provides easy one-click access.



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



## DeltaV™ v10.3.3i Update (continued)

### **AMS Device Manager**

Smart device configuration is now simplified with task-based terminology and consistent structure in the integration with the DeltaV Explorer.

### **Easier Maintenance**

#### **FOUNDATION Fieldbus Device Replacement and Commissioning—No Computer Necessary**

No longer is interaction with a computer screen required to replace a FOUNDATION Fieldbus device. Device commissioning is faster, and fewer resources are required. DeltaV Process History automatically records the automated commissioning steps for automatic documentation.

### **Optimized FOUNDATION Fieldbus Downloads**

To reduce overall commissioning time, the time required to perform downloads to FOUNDATION fieldbus devices during plant startups and commissioning has been significantly reduced.

### **Remote Zone Area Autosense**

To more easily manage your DeltaV Zones, your remote DeltaV zone areas are easily shared with the local zone through a simple right-click in the DeltaV Explorer. Common names are automatically reconciled to ensure robustness.

### **Agile Manufacturing**

#### **Unified Operator Interface**

Easy to-use batch controls and default displays eliminate the need to switch between applications to operate your batches.

#### **Dynamic Unit Allocation**

To reduce manual errors, Dynamic Unit Allocation is available for you to have the DeltaV Batch Executive automatically select which units to use so that operators don't have to.

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