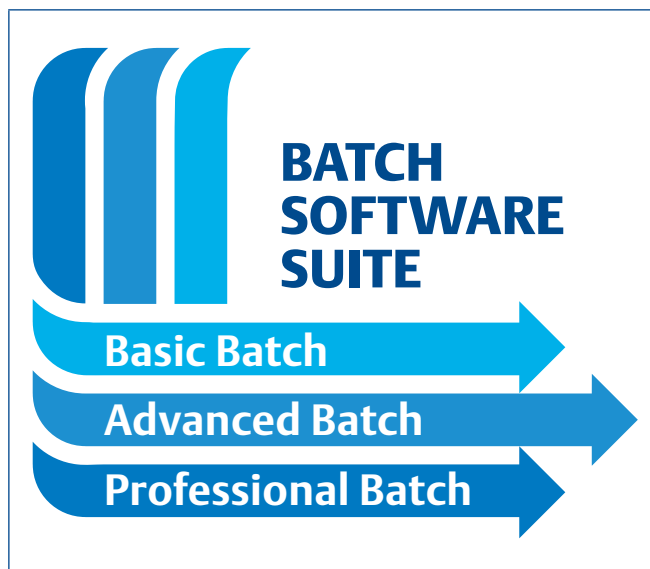# DeltaV™ Batch Software Suites

- Software bundles for easier ordering

- Coordinates recipe execution

- Displays batch information on DeltaV graphics

- Configuration-free, batch-based data collection

- Automated historical data collection

- Easy-to-use tools for manual or automatic archival of recipe execution and event data

- Open connectivity using standard protocols

- Monitors and interacts with campaign execution

BATCH SOFTWARE SUITE

Basic Batch

Advanced Batch

Professional Batch

Introduction

DeltaV™ Batch is integrated into the DeltaV system and includes process cells, unit modules, phases, equipment modules and control modules. From recipe scheduling to device control to advanced control; from simple sequencing to multi-stream formulations, the DeltaV system makes your batch operations easy.

Benefits

Coordinates recipe execution. The Batch Executive processes control recipes and manages the communication between recipe logic running on the batch server and phases running in the DeltaV controller. Recipe and phase status information is served to the graphics for batch viewing and manipulation.

Displays Batch Information on DeltaV graphics.
Users have the option of displaying batch information with other process information on DeltaV graphics. Users can view active batches and their states as well as create new batches and give operational commands or perform an active step change to existing batches. Users can also acknowledge batch prompts and submit comments related to batches.

Configuration-free, batch-based data collection.
DeltaV applications including the Batch Historian, Batch Executive and DeltaV Event Chronicle work seamlessly together to collect and store all relevant recipe execution and process event data.

Automated historical data collection. Campaign Manager automatically collects all campaign creation, modification, and execution data.

Easy-to-use tools for manual or automatic archival of recipe execution and event data. For longer-term data storage, there are easy-to-use tools that allow users to archive historical data to offline locations, as well as retrieve archived data for analysis. In addition to automatic data archival, there are also tools to automatically backup the main database and automatically delete the archived data.

Open connectivity using standard protocols. SOA Web Services, SQL, and XML are standards which provide the ability to interact with other applications to run, report, maintain and manage recipes.

DELTAV™

EMERSON™

Monitors campaign execution and interacts with campaigns. View the recipe, formula, batch IDs, and equipment defined for any campaign. The current status of any batch is also available, as well as any modifications made to a particular batch.

Product Description

DeltaV Batch software is available in three suites to satisfy differing process requirements. DeltaV Basic Batch software is designed so that you can easily operate your batch processes. DeltaV Advanced Batch software suite contains everything you need to easily operate your batch process — plus you receive the added benefits of automatic historical collection and PC-based phase control. DeltaV Professional Batch software suite delivers production scheduling and campaign execution that is flexible enough to adjust to changing production requirements and plant operating conditions. Tight integration among the applications in this suite of products makes it easy to create and execute campaigns, while automatically getting comprehensive history collection.

Software applications that are available within the suites include:

- **Batch Executive.** This is the batch engine that executes and schedules your recipes and resources.

- **Batch Historian.** Automatically collects and displays recipe execution data from the DeltaV Batch Executive and process management event data from the DeltaV Event Chronicle.

- **Soft Phase Server.** Allows PC-based phases to be executed by the Batch Executive as part of a standard DeltaV recipe.

- **Campaign Manager.** Create and manage a campaign by specifying the recipe, formula, equipment, and number of batches to be run within the campaign. To initiate the creation of campaigns in the DeltaV system from production scheduling packages, a Service-Oriented Architecture web service is provided. Users can develop application to interact with the Campaign Manager Executive or use the Campaign Manager Operator Interface provided out of the box from Emerson.

- **Recipe Exchange.** Provides an open, programmatic interface to the DeltaV recipe management system for the import and export of recipes. A Service-Oriented Architecture web service is included to enable easy integration of DeltaV recipes with enterprise applications, including the ability to create, import/export and assign recipes and initiate downloads.

- **Batch Analytics.** Detects faults and predicts end of batch quality in real time using multi-variate models based on historical batch data

Please refer to the Batch Executive, Batch Historian, Recipe Exchange, Campaign Manager and Batch Analytics product data sheets for details on individual products. Consult the factory for details on the Soft Phase Server software.

DeltaV Batch Software Suites

Product	Software Suite		
	Basic Batch	**Advanced Batch**	**Professional Batch**
Batch Executive	✔	✔	✔
Batch Historian		✔	✔
Soft Phase Server		✔	✔
Campaign Manager			✔
Recipe Exchange			✔
Batch Analytics			✔

Ordering Information

Description	Model Number
DeltaV Basic Batch	VE2247Syyyyy
DeltaV Advanced Batch	VE2248Syyyyy
DeltaV Professional Batch	VE2249Syyyyy
DeltaV Basic Batch Additional Capacity Scaleup	VE22UPS060 for 1 Unit VE22UPS061 for 5 Units VE22UPS062 for 10 Units VE22UPS063 for 20 Units VE22UPS064 for 50 Units VE22UPS065 for 300+Units
DeltaV Advanced Batch Additional Capacity Scaleup	VE22UPS066 for 1 Unit VE22UPS067 for 5 Units VE22UPS068 for 10 Units VE22UPS069 for 20 Units VE22UPS070 for 50 Units VE22UPS071 for 300+ Units
DeltaV Professional Batch Additional Capacity Scaleup	VE22UPS072 for 1 Unit VE22UPS073 for 5 Units VE22UPS074 for 10 Units VE22UPS075 for 20 Units VE22UPS076 for 50 Units VE22UPS077 for 300+ Units
Upgrade DeltaV Basic Batch to DeltaV Advanced Batch	VE22UL6Syyyyy
Upgrade DeltaV Advanced Batch to DeltaV Professional Batch	VE22UL7Syyyyy

Where yyyyy is equal to the total number of class-based Unit Modules configured under Process Cells in the system.
yyyyy is available in sizes of 2 Units, 5 Units, 10 Units, 20 Units, 30 Units, 50 Units, 75 Units, 100 Units, 150 Units, 300 Units, and >300 Units.

Related Products

- **Advanced Unit Management Software.** Provides class-based Unit Modules and aliasing to make developing unit-relative equipment strategies simple.

- **Recipe Studio.** Powerful yet simple to use application for graphically configuring recipes (with formulas) for successful batch production.

- **Batch Executive.** The batch engine which coordinates all batch processing activity, creates detailed batch history records and schedules recipes and resources.

- **Batch Historian.** Automatically collects and stores batch recipe execution data from the DeltaV Batch Executive and process alarm and event data from the DeltaV Event Chronicle.

- **Campaign Manager.** Creates and manages a campaign by specifying the recipe, formula, equipment, and number of batches that are to be run within the campaign. A Service-Oriented Architecture Web Service is available to enable production-scheduling packages to initiate the creation of campaigns in the DeltaV system.

- **Recipe Exchange.** Provides an open, programmatic interface to the DeltaV recipe management system. Recipe Exchange uses a Service-Oriented Architecture Web Service.

- **Batch Analytics.** Detects faults and predicts end of batch quality in real time using multi-variate models based on historical batch data.

- **Batch Redundancy.** Enables redundant DeltaV Batch capabilities for the Batch Executive and Campaign Manager, including automatic switchover to protect your batch operations from disruptions.

- **DeltaV Discovery.** Provides control and monitoring of Life Science laboratory applications in a single DeltaV workstation.

- **DeltaV Live.** Emerson's modern, built-for-purpose operator interface. DeltaV Live delivers a high performance HTML5-based operations experience and simplified graphics configuration, all in an intuitive and customizable format with out-of-the-box simplicity.

- **DeltaV Operate.** High performance operator graphics, trends and alarms offered in standard operating layouts and utilizing system-wide built-in security.

- **Syncade™ Smart Operations Management Suite.** A new class of real-time production management software, provides an easy, flexible, integrated solution that increases plant performance by efficiently managing plant materials and equipment, coordinating production operations, improving quality operations and integrating plant information.

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

Prerequisites

- One ProfessionalPLUS Station is required for each DeltaV system. Refer to the ProfessionalPLUS Station Software Suite Product Data Sheet.

- The Advanced Unit Management software control license is required. Refer to the Advanced Unit Management Software Product Data Sheet.

- Optimal performance is achieved by running the Batch Executive and Batch Historian on separate DeltaV Application Stations. This is recommended, particularly in critical applications.

- Consult with Emerson before installing the Batch Executive or Batch Historian on a workstation other than the Application Station.

- Optimal performance is achieved by running the Campaign Manager on a separate DeltaV Application Station, or on one where only the Campaign Manager and Batch Executive are enabled. This is recommended, particularly in critical applications.

- The Campaign Manager must be installed on a DeltaV Application Station.

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