Syncade Behaviors

- Facilitate transactions with third party systems
- Perform operations from electronic work instructions
- Implement extended recipe functions

Introduction

Syncade MES Behaviors enable recipe authors to extend workflow functionality by facilitating transactions with third party systems. Behaviors are used at specific execution points to perform complex calculations, trigger events, collect data, and execute tasks across the Syncade MES.

Each behavior has unique data entry requirements and formulates responses based on its functionality. Behaviors can pass or fail when executed and will communicate error messages when detected. All standard behaviors are available through the Syncade Support Site, once they have passed Emerson’s quality process to ensure they are tested and supportable.

Behaviors Help You Work More Efficiently

Drive operational certainty and augment your MES functionality with Syncade Behaviors. Types of behaviors include:
- DeltaV Integration
- Material and Inventory Management
- Order Management and Workflow
- Equipment Tracking
- Weigh and Dispense
- Data Management

Use the Behavior Editor Tool to modify behavior code, custom variables, and common functions from a single, easy to use interface.
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**DeltaV Integration**
Collect batch status and history from your DeltaV DCS to include in the Syncade MES electronic batch record. Use behaviors to add and remove campaigns. Read and write OPC and OPCXi values to drive workflow operations.

**Material and Inventory Management**
Improve overall lot genealogy with more robust material and inventory management. Modify quality control status to manage material usage and storage. Track materials and determine when to use alternates or reorder. View containers and their custom properties in inventory. Improve movement of materials with the ability to split, deplete, and adjust container quantity. Modify and print barcodes for better inventory tracking.

**Order Management and Workflow**
Create output materials and manage material movement. Update order status, custom properties, and order-related information. Create order-level campaigns and view or update bill of materials, order, and view component details.

**Equipment Tracking**
Schedule and perform equipment events to manage equipment states. Modify and set equipment custom properties.

**Weigh and Dispense**
Easily combine lots and transfer materials to improve the efficiency of your dispensary. Read scale data and send scale commands to the electronic batch record for compliance reviews. Verify dispense containers. Area dispense and charge materials in a single action.

**Data Management**
Manage data more effectively with XML transformation. Easily search and access data to support decision-making. Facilitate integration with third party systems. Attach files to batch records for a more complete history. Read and write files from Document Management system, including bill of materials, bill of equipment, or bill of parameters.