

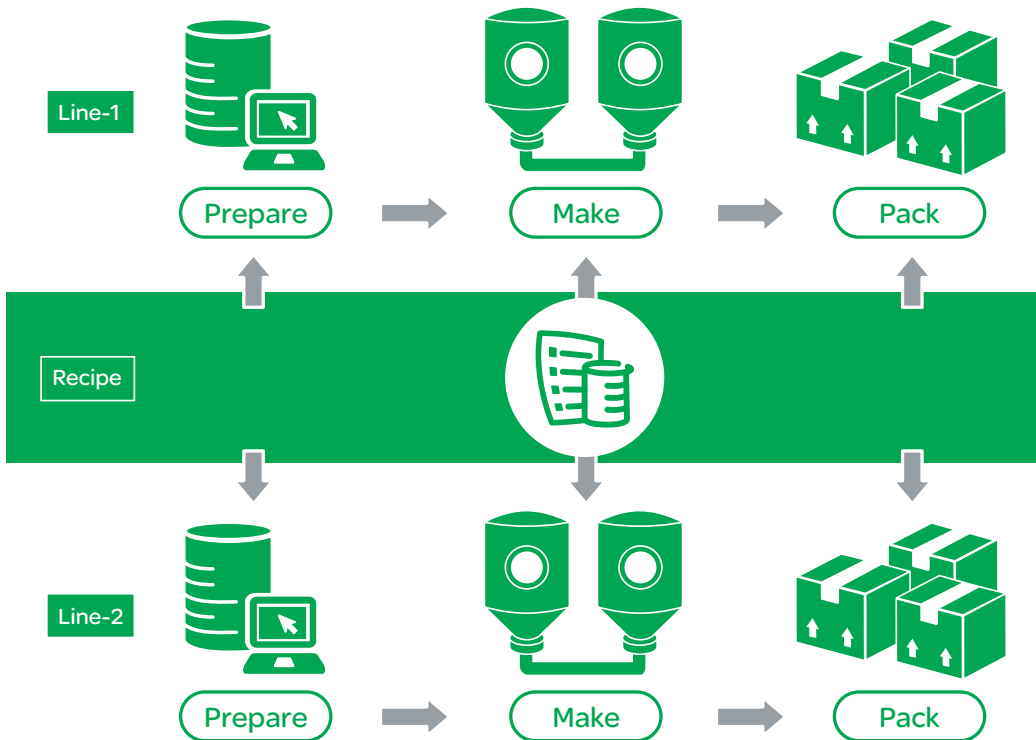
Wonderware Recipe Manager Plus



Simplifying recipe management in manufacturing operations

Wonderware® Recipe Manager Plus software reduces the effort to manage your product formulations, set up specifications and equipment procedures on automated production equipment and machines. Powerful, ready to use recipe management functionality, deep governance (role-based security, item versioning and approval) and electronic history records offer fast time to value and empower your operational teams to improve productivity and quality.

Wonderware Recipe Manager Plus is designed for the standardization of recipe management across your business, and to simplify and speed up the process of new product introduction to the shop floor and its automated production equipment.



Wonderware Recipe Manager Plus

Capability	Alias	Parameter	Group	Target	UOM	EngDef	QMS
qpHeat	QP10	qpHeatTemp		60.0	°C		
qpHeat	QP10	qpHeatTime		60.0	s		
qpFillIngredient	QP20	qpFillAmount		70.0	gal		
qpFillIngredient	QP20	qpFillIngredient		Water			
qpFillIngredient	QP30	qpFillAmount		25.0	gal		
qpFillIngredient	QP30	qpFillIngredient		Malt			
qpGrain	QP40	qpGrainFeed		20	%		
qpGrain	QP40	qpGrainTime		200	s		

Wonderware Recipe Manager Plus is commercial off-the-shelf recipe management software for simplification of recipe deployment, optimization and execution on automated equipment in manufacturing operations. The software helps to manage more product variations, and to increase operational efficiency and product quality through increased process automation and repeatability.

Innovate Faster

With demographic changes and shifting consumer preferences, manufacturers are under increasing pressure to innovate and find opportunities to drive speed to market. Effective recipe management can help to connect the worlds of product development and definition with the people and systems operating production equipment on the plant floor. Wonderware Recipe Manager Plus is designed as a client/server web application with a central data repository for standardization of recipe management operations across your business, and to speed up the new product introduction process. The software is fully HMI and control system independent. It can be used as a recipe management standard across heterogeneous automation system landscapes of lines, plants or multiple plants. This new and unique approach to recipe management reduces the number of recipe systems and formats, and establishes governance to secure consistent quality of your products.

Scalable to Different Recipe Management Needs

- **Formula management and download**, enabling quick and consistent set up parameter changes for equipment and systems – which in many cases, is the flexibility required for packaging or production machines or lines in Consumer Packaged Goods and Food and Beverage.
- **Recipe management and execution (procedure and formula management)**, providing automation and repeatability of production processes to recipe specifications on production units, work cells or line equipment for batch-oriented and hybrid manufacturing processes.



SUMMARY

Wonderware Recipe Manager Plus is commercial off-the-shelf software for formula management and download or recipe management and execution for batch-oriented production and packaging processes.

BUSINESS VALUE

This modern software is the foundation for standardization, reducing engineering and implementation costs by up to 40% compared to custom made solutions; and decreasing the time for new product market introduction by 20% or more.



Wonderware
**Recipe
Manager Plus**

Wonderware Recipe Manager Plus Features

Formula

Wonderware Recipe Manager Plus offers formula templates as a set of default parameters and formula instances to quickly generate new product formula variations.

Formula Parameter Extensions

Parameter extensions allow you to add columns to the formula parameters of Recipe Manager Plus to meet your individual recipe formula data and content needs.

Capabilities

A Capability represents, in accordance with the design for the Equipment, a Phase, Operation, or Unit Operation within one or many pieces of equipment.

Equipment

Equipment in Recipe Manager Plus covers a set of related parameters that needs to be consistently managed. Additional capabilities can be assigned representing the equipment process capabilities for use in recipe procedures.

Recipes

A Wonderware Recipe Manager Plus recipe template contains a sequence of equipment capabilities to be executed. A recipe is created by mapping formula parameters to a recipe template. Wonderware Recipe Manager Plus executes a recipe step by step using a state interface to coordinate the procedure with the control system.

Automatic Versioning and Approval Control

Equipment, formula and recipe templates, formulas and recipes are all "versioned" items. Any time one of these configuration items are changed, their version number is incremented and approval is required prior to production use. A new, approved template version provides change notifications and offers updates of related instances.

Formula Download and Recipe Execution

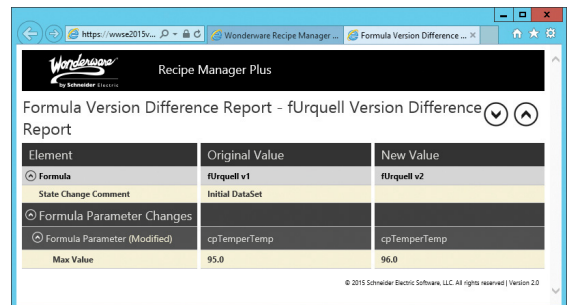
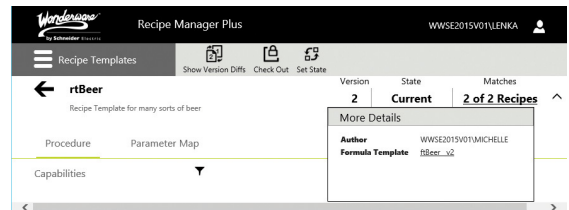
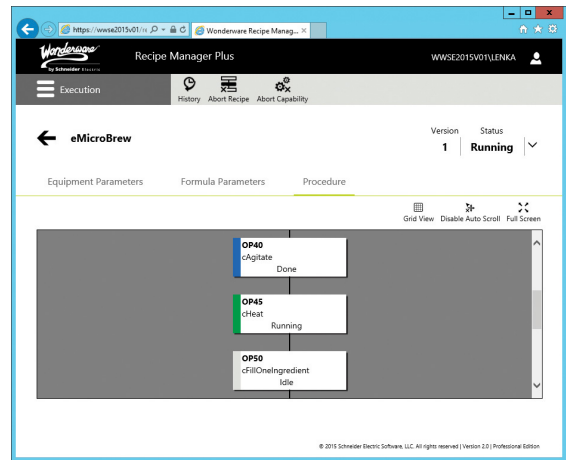
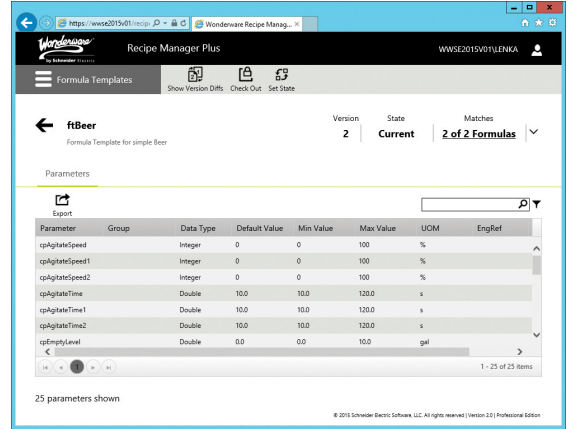
Execution is easy using the Recipe Manager Plus user interface. Operators assign formulas or recipes to Equipment, review the formula parameter values, adjust them within given limits when allowed, and then download the formula values to the connected automation system or start and monitor the execution of the assigned recipe.

Recipe and Execution History Records and Reporting

Recipe Manager Plus reporting allows you to view historical information about formulas and recipes that have been executed, as well as provides version comparison reports to help to capture and replicate the "golden batch" setup and recipe.

Role-based security

The software includes the configuration of users and user groups with individual permissions for viewing, editing or execution.



Wonderware Recipe Manager Plus

Features (continued)

Web-based User Interface

Users and operators interact with Recipe Manager Plus through a web-based, secure SSL encrypted user interface on any computer, operator panel or mobile device which offers an HTML5 compatible browser. The IT security and firewall friendly technology reduces implementation and administration efforts, and allows remote access without compromising system security in mission-critical process networks.

Integration with Any Automation System

Recipe Manager Plus can be run in standalone mode or integrated with Wonderware System Platform.

Standalone mode means that you will be using the web application equipment page to configure your I/O mapping for the OPC UA (DA spec) client functionality; the Recipe Manager Plus server runs the execution service. Operators use the web application execution page in a browser or browser control hosted in any existing HMI software.

If you are integrating with Wonderware System Platform, you will use the Recipe Manager Plus object template and model importer in the Integrated Development Environment (IDE) for I/O mapping; Wonderware Application Server runs the execution. Operators access the execution web page in a browser or a browser control within InTouch for System Platform or any other HMI software.

Wonderware Recipe Manager Plus Specifications

Operating Systems

Wonderware Recipe Manager Plus software supports the Microsoft Windows platform, including:

- Windows 7 Professional, Enterprise, or Ultimate Edition (32-Bit and 64-Bit)
- Windows 8.1 Professional or Enterprise Edition (32-Bit and 64-Bit)
- Windows Server 2008 R2 Standard or Enterprise Edition (32-Bit and 64-Bit)
- Windows Server 2012 Standard or Data Center Edition (32-Bit and 64-Bit)
- Windows Server 2012 R2 Standard or Data Center Edition (32-Bit and 64-Bit)

Database Technology

Wonderware Recipe Manager Plus software supports the following databases:

- Microsoft SQL Server 2008 Express (32-Bit)
- Microsoft SQL Server 2008 R2 in Standard or Enterprise Edition (32-Bit and 64-Bit)
- Microsoft SQL Server 2012 Express (32-Bit)
- Microsoft SQL Server 2012 in Standard or Enterprise Edition (32-Bit and 64-Bit)
- Microsoft SQL Server 2014 Express (32-Bit)
- Microsoft SQL Server 2014 in Standard or Enterprise Edition (32-Bit and 64-Bit)

Browsers

Wonderware Recipe Manager Plus supports the following Browsers:

- Microsoft Internet Explorer, Version 10 or higher on Windows OS
- Google Chrome, Version 32 or higher on Windows OS
- Mozilla Firefox, Version 26 or higher on Windows OS
- Apple Safari, Version 6.0 on iPad devices

For more information on Wonderware Recipe Manager Plus, please contact your local Wonderware distributor, or visit <http://software.schneider-electric.com/products/wonderware/manufacturing-operations-management/recipe-manager-plus/>

Schneider Electric Software

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