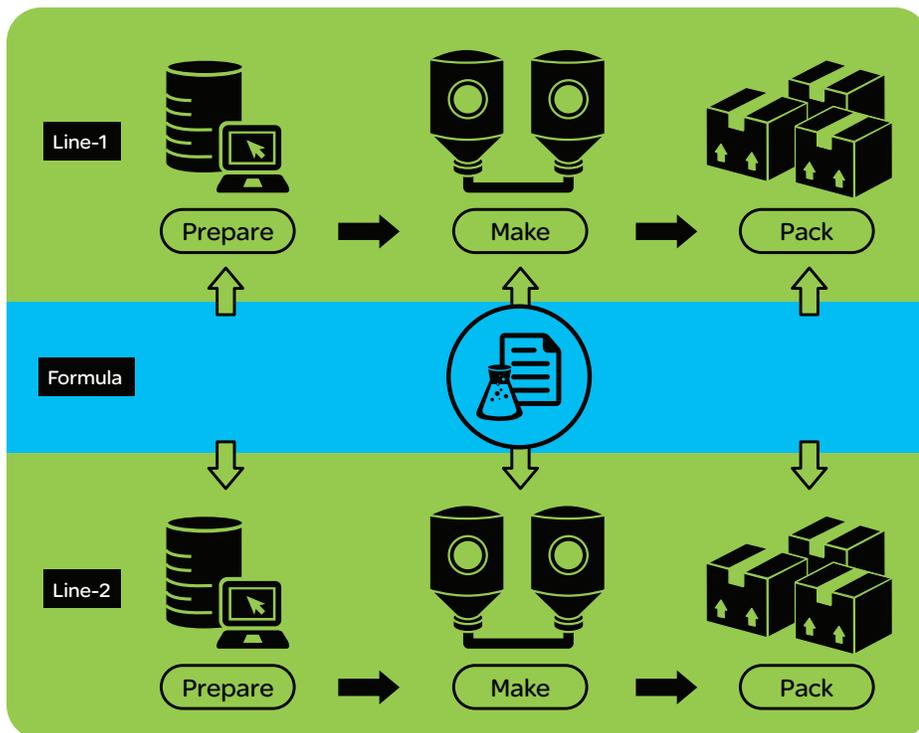


# Wonderware Recipe Manager Plus

efficient recipe  
formula management

Wonderware® Recipe Manager Plus software reduces the effort to manage your product formulations and set up specifications on automated production equipment and machines in manufacturing. Powerful, ready to use configuration and operator user interface functionality, deep governance (role-based security, change management with 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 Features



## SUMMARY

Wonderware Recipe Manager Plus provides easy to use recipe formula management in a secure, web-based client/server environment. Flexible integration and connectivity enables formula parameter download to any automation system.

## BUSINESS VALUE

Wonderware Recipe Manager Plus software improves operational efficiency, ensures repeatable quality and increases your business agility to take new products faster to market.

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, simplifying the process to take new products to market. 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.

HMI and control system independent, Wonderware Recipe Manager Plus connects and integrates to all your automation systems. User interface functionality is securely provided through web pages in a browser on workstations, HMI Panels or mobile devices. The IT and security friendly web application is quickly deployed, eliminating any client application installation and maintenance needs to minimize ownership and lifecycle costs.

## Formulas

Wonderware Recipe Manager Plus offers formula templates and formula instances to quickly generate new product formula variations, enforcing formula consistency and providing efficient change propagation when updating the formula template.

Formula templates define a set of parameters with default values. Formulas are derived from formula templates and allow you to change default parameter values for a specific product or system setup variance.

The screenshot shows the 'Parameters' section of the 'Beer' product formula template. It includes a table with the following data:

Parameter Name	Data Type	Default Value	Min Value	Max Value	UOM	ExternalSystemReference
KettleLevel	Integer	800	200	950	l	BeerKettleLevel
KettleTemperature	Double	45.0	25.0	68.0	°C	BeerKettleTemp
MashLevel	Integer	850	250	900	l	BeerMashLevel
MashTemperature	Double	38.0	25.0	40.0	°C	BeerMashTemp

4 parameters shown

# Wonderware Recipe Manager Plus Features (continued)

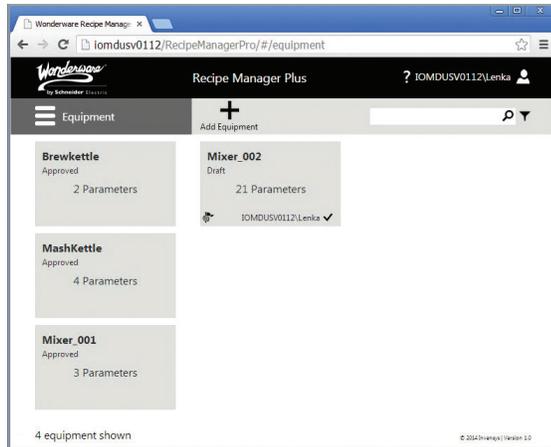
## Formula Parameter Extensions

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. This extensibility can be used for additional values for download to the control system, to include context information for users, or to maintain references to external systems for master recipe data synchronization.

## Equipment

Equipment in Recipe Manager Plus covers a set of related parameters that need to be consistently managed for product changeover or system setup on individual production equipment or machines.

Equipment parameter I/O mapping is part of the Equipment Configuration web page when connecting directly via OPC UA to control or HMI systems. When used with Wonderware System Platform each Equipment item is represented through an Application Object for I/O mapping.



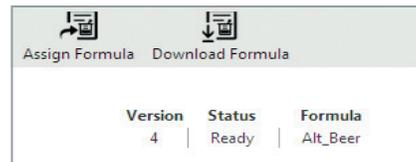
## Automatic Versioning and Approval Control

Equipment, formula templates and formulas 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 formula template version provides change notifications and offers updates of related formula instances.



## Downloading Formula

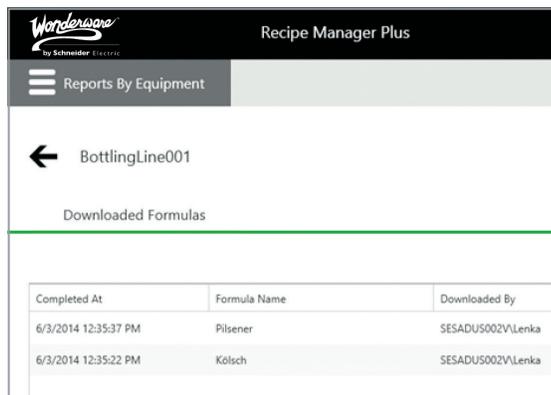
Once equipment and formulas are created, formula download is easy using the Recipe Manager Plus user interface. Process integrity is ensured by allowing only approved formulas assigned to a piece of equipment. Operators can review the parameter values, adjust them within given limits when allowed, and then download the values to the connected automation system.



## Recipe History and Reporting

Recipe Manager Plus reporting allows you to view historical information about formulas that have been downloaded to the equipment.

Reports are accessed from the Equipment details page in Execution or in the Main Menu. System security provides permission-based access to view reports. When you select Reports, a sub-menu appears and you can choose to view information By Formula or By Equipment.



## Web-based User Interface

Users and operators interact with Recipe Manager Plus through a web-based, secure user interface, reducing the implementation and administration efforts required to access software functionality anywhere on your network. The platform neutral user interface is available on any computer, operator panel or mobile device which offers an HTML5 compatible browser. The software includes the definition of user and user groups with individual permissions in editing or viewing formulas and equipment, and changing or downloading formula values. The IT security and firewall friendly technology allows remote access to maintain or update formulas without compromising system security in mission critical process networks.

# Wonderware Recipe Manager Plus

## Features (continued)

### 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 formula download 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 formula download 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 software please contact your local Wonderware distributor, or visit

[www.software.invensys.com](http://www.software.invensys.com).