



# Recipe/Changeover Module

MES BUILT ON IGNITION®

Expertly build, manage, and monitor recipes with the MES Recipe/Changeover Module. The Recipe/Changeover Module is ideal for quickly and accurately changing machine, process, or system recipes. Powerful master recipe and sub-recipe management, recipe security, change log tracking, variance tracking, and more empower you to improve efficiency and quality, and take more control of your manufacturing facility.

## Master Recipe Functionality

Reduce the effort required to manage numerous recipes with master recipe functionality. When you change a setting in the master recipe, it will replicate down to all of its sub-recipes while maintaining the specific values of each sub-recipe. With unlimited levels of master recipes, you can organize recipes in a hierarchical manner.

## Recipe Editor

Managing recipes has never been easier using the built-in visual recipe editor. Creating new recipes, reading current values into a recipe, recipe exporting and importing, managing security, selecting machines for recipes, and other editing capabilities are now just a mouse-click away.

### Features

- Master Recipe Functionality
- Recipe Editor
- Variance Log
- Role-Based Security
- Recipe Change Log
- Analysis and Reports
- OEE and SPC Integration

### Supported Operating Systems

- Windows Server 2008/2012/2016
- Windows 7, 8, 10, or later
- Ubuntu Linux 12.04 or later
- Other Java SE enabled OSes<sup>3</sup>

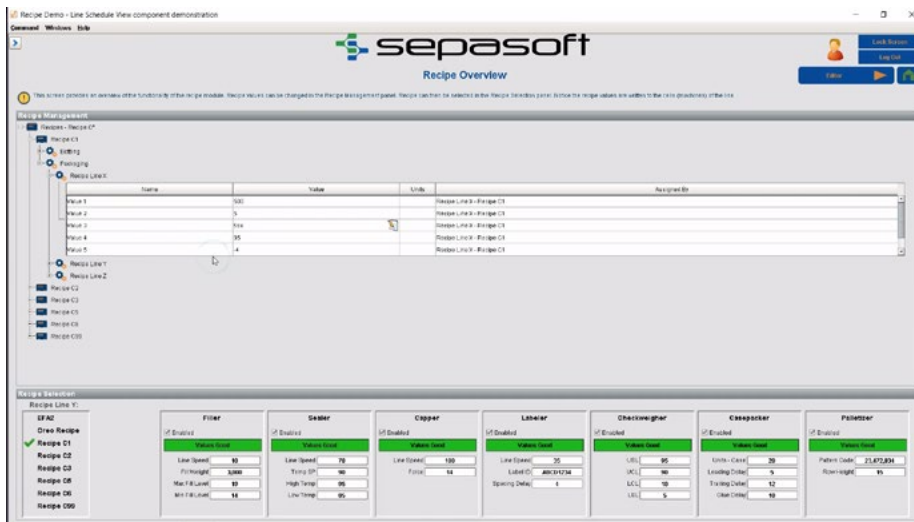
### Requirements

- Ignition® Core Modules
- Java SE 8+ (server)
- Java SE 6, 7, 8, or 9 (client)
- Quad-core processor (32- or 64-bit)
- 8GB RAM
- 10GB free HD space (requirements vary by usage)

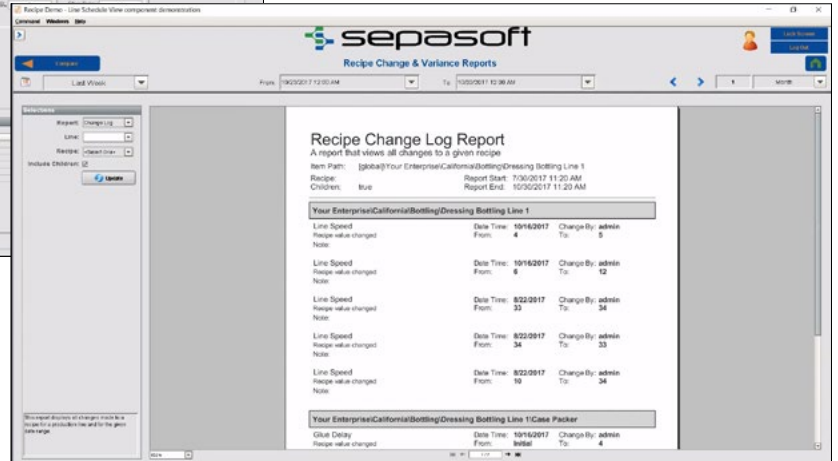
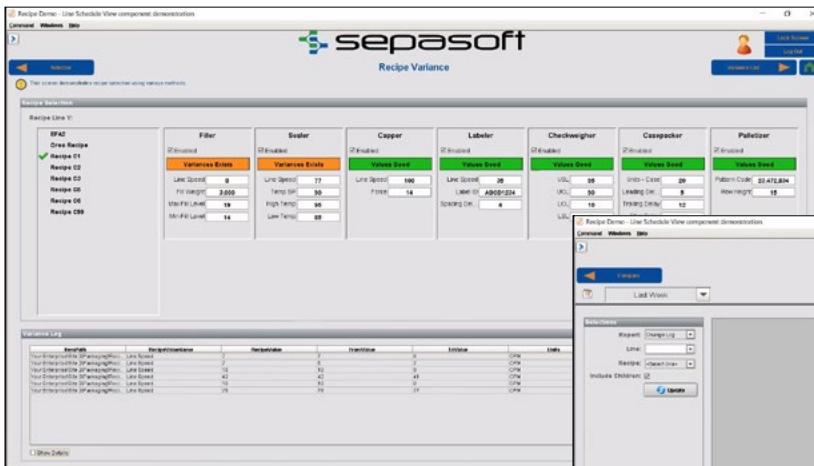
### Supported Databases

- Microsoft® SQL Server
- MySQL
- Oracle
- Postgres

\*Ignition® is compatible with any Java-enabled operating system. Full support is only offered for listed operating systems.



**Managing Recipes on a Large Scale** | Manage and quickly edit recipes for single machines, production lines, and entire production areas.



### Reporting Tools

Use flexible analysis and reporting tools to create reports on variance, recipe comparisons, and more.

### Variance Log

Once the initial recipe values are set, it is vital to monitor them for any variances to prevent quality, downtime, or other production issues. During production, recipe values can be changed from systems outside of the recipe management system, such as an operator interface terminal that is local to a machine. By monitoring the recipe values, the variance log lets you view variances in real time, by production run, or date range.

### Role-Based Security

Extend Ignition's role-based security into your recipes to control who can change which recipe values and by how much. For example, you can give the Maintenance role permission to change a setting from 0–100, while giving the Operator role permission to change the setting from 50–60.

### Recipe Change Log

Whenever a change is made to a recipe, the details are recorded in the change log. You have the option to require a user note explaining why the change was made. The change log is valuable in normal production environments and is especially critical in industries with compliance requirements.

### Analysis and Reports

You can compare recipes, review recipe change logs, review production-run variances, and more using built-in analysis tools. When you add the Ignition® Reporting Module, you can also create multi-page reports with the recipe analysis information, and more.

### OEE and SPC Integration

In a production process that fully employs the MES Suite of modules, making a single product code selection sets recipe values, starts overall equipment effectiveness (OEE) tracking and collects statistical process control (SPC) samples. During and after the production run, you can analyze recipe, production, SPC data, and more, all in one unified system.

### Powered by Ignition

MES Recipe/Changeover is a module built on Ignition®, the powerful, award-winning, HMI, SCADA, and MES software from Inductive Automation. Because the Recipe/Changeover Module is built upon the power of Ignition®, it shares the same advantages, such as cross-platform compatibility, unlimited free clients, robust out-of-the-box SQL database support, and fast installation. The module leverages the full power of Ignition® SCADA, making it a recipe management application unlike any other on the market.



The Recipe/Changeover Module is available for download at the Inductive Automation Website: [inductiveautomation.com/downloads/ignition](http://inductiveautomation.com/downloads/ignition)