Honeywell’s Symphonite™ Production Accounting and Reconciliation (PAR) R201 is the newest release of Honeywell’s premier statistical data reconciliation-based production accounting software. Upgrade today to conduct production accounting with confidence.

August 2017 marked the launch of Honeywell’s Symphonite Production Accounting and Reconciliation (PAR) R201. This release demonstrates Honeywell’s long term commitment to the Symphonite™ Production Management portfolio, and it is now available as an upgrade to existing customers as well as for new customers.

What’s New in PAR R201

The new features of PAR R201 result from on-going input from, and collaboration with, end-users. They include:

- **Tank Pools** to simplify configuration and reduce balance closure time by automatically aggregating inventories and movements of similar materials.

- **Material Hierarchies** to ensure that production reports aggregate materials and products into logical groups.

- **Model Configuration Enhancements**, such as port reordering, equipment search and configuration audits to simplify the tasks of building and maintaining an accounting model.

- **Improved Balance Closure User Experience** through native case re-processing, context driven navigation from flowsheet to detail page and model-specific metrics and charts.

- **Movement Types** such as shipments, receipts and rundown for better classification and reporting of facility movements.

- **Native Manual Switches** allow flow switch tags to be managed natively without the need for historian tags.

- **Manage Limit Violations** is a powerful technique that identifies reconciled flows and densities exceeding configured limits and allowing them to be adjusted manually or in an automated way.

- **Writeback Enhancements** allow users to have a visual indicator of writeback status and perform diagnosis.

PAR R201 targets improvements in all aspects of the production accounting lifecycle including model configuration, data collection, initial data analysis, statistical reconciliation and collaboration.
Easier to Build and Maintain Accounting Models

Typical accounting models use complex flowsheets and multiple pieces of equipment and routes, leading to cluttered flowsheets and a poor user experience. PAR 201 avoids this by allowing users to reorder equipment ports and create a simpler representation of an accounting model flowsheet.

PAR also allows accounting model routes to be deactivated for long periods of time via a configuration setting. This is useful when a route is removed for maintenance or if there are no regular flows in such routes.

Maintaining an accounting model often requires equipment or route configuration changes which may be cumbersome for a complex model with multiple flowsheets. PAR provides a search capability that helps pinpoint the exact location of an equipment or route.

PAR now enables configuration-related audit records to be accessed via the Excel client. This ensures model changes can be examined any time, and that a clear history is maintained for compliance purposes.

Flexible Data Collection Methods

Accounting individual tank inventories and their internal movements is cumbersome. Furthermore, there is often insufficient redundancy for individual tanks to support accurate reconciliation. To overcome this, PAR now comes with a Tank Pool feature that enables users to combine multiple tanks with similar service into a single virtual tank, and aggregate their inventories and movements. This significantly reduces balance closure times and configuration effort.

In addition to providing automated, tag-based flow switches, PAR now enables users to add manual switches to manage route line-ups, without the need for historian tags.

Intuitive Visual Aids and Metrics for Faster Analysis

PAR provides several metrics and charts for users to understand imbalance level. Since PAR can support multiple models and accounting periods, metrics and chart settings are now configurable at individual accounting model level, and according to the unique schedules for each model. These are:

- Balance Settings (Imbalance type -> Absolute / % of in / % of Out and Good / Bad / Warning Values)
- Solver Method (Ridge Regression, SVD, Nova, etc.)
• Production Metrics (Inventory Chart, Movement Chart, Flowsheet Trend)

Reduce Cycle Time to Close Balances

After performing reconciliation, the reconciled values obtained from the solver may deviate from configured low and high limits. As a result, the user must spend time correcting negative reconciled flow values, component percentages greater than 100% or less than zero, and negative densities.

PAR provides two options to resolve this:

• Manual correction of the error values highlighted after reconciliation
• Automatic adjustment of infeasible values

Another usability feature is navigation context retention. While analyzing an accounting case, a user often needs to move between the flowsheet and multiple detail views. To simplify the user experience, PAR retains the user selected context as the user navigates different screens within the application.

Similarly, case re-processing to account for late changing data can be initiated natively, without needing to use a different interface.

Reporting and Collaboration

PAR allows movement entries to be organized by movement types, such as: Shipment, Receipt, Feeds, Rundown and Inter-tank Transfer, improving reporting. Movement types are user-configurable.

PAR enables users to view the status of historian write-back in the production metrics (Summary UI), adjacent to the case status. In the event of failures, the user can perform further analysis through a detailed log that clearly distinguishes between internal issues -- for example, configuration or interface issues.

For sites with a hierarchy of feeds, intermediates and products, PAR enables reporting by aggregating the production, consumption and inventories as per the configurable hierarchies.

In addition to these enhancements, performance and quality improvements have been incorporated into R201, including support for the latest versions of Microsoft® Windows Server and Client operating systems, SQL Server and Office.
With this release, PAR takes a leap towards simplifying the production accounting process, making it easier to implement, learn, use and maintain.

**Symphonite™ Supply Chain and Production Management Suite**

Symphonite Production Accounting and Reconciliation is part of the Symphonite portfolio of software and services, which provides an end-to-end solution for supply chain and production management (SCPM) processes. From integrated planning to post-execution reconciliation and analysis, we offer comprehensive, scalable resolution to your challenges. Built on deep domain knowledge, our tools help you make better business decisions and drive continuous improvement for supply chain and production management excellence.

**Other Symphonite™ Products**

- Symphonite Capacity and Distribution Planner (CDP)
- Symphonite Refining and Petrochemical Modeling System (RPMS)
- Symphonite BLEND
- Symphonite ASSAY2
- Symphonite SAND
- Symphonite Production Manager
- Symphonite Port and Marine Manager
- Symphonite Downtime Reporter

**Symphonite™ SCPM Support Services**

This product includes worldwide, premium support services through our Benefits Guardianship Program (BGP). BGP is designed to help our customers improve and extend the use of their applications and the benefits they deliver.

Honeywell provides a complete portfolio of services to extend the life of your plant and provide a cost-effective path to the latest application technology. Services include:

- Software installation
- On-site engineering
- Migration
- Scope expansion
- Assessment
- Performance baseline and tuning
- Custom training

For More Information

Learn more about Honeywell’s Symphonite PAR solutions, visit [www.honeywellprocess.com](http://www.honeywellprocess.com) or contact your Honeywell Account Manager.