

# AGILE PRODUCT DATA MANAGEMENT FOR PROCESS

## KEY FEATURES

Agile Product Data Management for Process is a Web-based application with a zero-client footprint that is accessible anytime, anywhere over a security-based Web browser. It provides prebuilt integrations with all bundles and modules within Oracle's Agile product lifecycle management for process solution. Features of the four modules are listed below.

### Global Specification Management Module

- Industry-specific and extensible data model
- Product data available in all languages, cultures, units of measure, and currencies
- Integrated workflow engine for routing specifications
- Integrated security model
- Configurable user interface

### Supply Chain Relationship Management Module

- Company/facility profiles
- Workflow-enabled sourcing approvals
- Supplier documentation and contact management

### Content Synchronization and Syndication Module

- Data synchronization to internal systems and trading partners
- On-demand and scheduled syndication
- Two-way messaging
- Flexible syndication methods
- GDSN-compliant solution

### Reporting Module

- Rich reporting capabilities on specifications and suppliers
- Flexible reporting layouts
- Integration with Excel

*Today, consumer goods companies often maintain islands of product information spread across different departments and business units, with no enterprisewide visibility, harmonization, or cross-referencing of specification information and product data. This inefficient method leads to high product costs, inconsistent quality, lost revenue opportunities, and reduced customer satisfaction.*

*Oracle's Agile Product Data Management for Process enables consumer goods enterprises to enhance global information visibility and traceability, reduce product costs, and accelerate product introductions with its Global Specification Management, Supply Chain Relationship Management, Content Syndication and Synchronization, and Reporting modules.*

## Global Specification Management

The Global Specification Management module of Agile Product Data Management for Process enables you to create an enterprisewide “single version of the truth” of your entire product record, including finished products, manufacturing processes, bills of materials (BOMs), ingredients, and packaging materials. It provides you with collaborative business processes to create, review, and approve all specifications included in the product record—in all languages, cultures, units of measure, and currencies—throughout the enterprise and across the supply chain. The entire product genealogy is connected, allowing you to ensure data traceability and attain an integrated view of the interrelationships among all specifications.

## Extend the Data Model as Needed

The industry-specific data model embedded in Global Specification Management enables you to store data across the entire product genealogy, including finished products such as trade units and consumer units, manufacturing processes and intermediates, packaging materials, ingredients, and ingredient formulations. Not only can you nest all specifications to provide for infinite extensibility of the product genealogy, but you can also supplement the core attributes configured in Agile Product Data Management for Process with extended or user-defined attributes.

## Specify Workflows for Review and Approval

Maintaining an enterprisewide data repository requires the ability to review and approve products at the global and local levels. Global Specification Management lets you define workflows based on attributes such as business unit, geography, and product taxonomy. The workflow engine allows for flexible transitions, permissions, and conditions that form the backbone for change control management.

**Manage Formulations and Bills of Materials**

Global Specification Management lets you manage BOMs and processing instructions by dividing manufacturing processes into steps and intermediates. You can maintain specific parameters, such as floor summary, processing instructions, step-level BOM, component-level yield within each step, batch-level yield, water gain/loss factor, total solids, and density.

**Generate Factory Floor Documentation**

Global Specification Management can produce factory floor documentation, including step-by-step instructions, process maps, and factory floor worksheets. You can also syndicate the data to enterprise resource planning systems (ERP) and manufacturing execution systems.

**Manage Packaging and Labeling Data**

Global Specification Management integrates packaging and labeling data with product data, allowing you to trace the label contents—including ingredient statement, nutrition facts panel, and label claims—back to the supporting product data. This results in the streamlining and acceleration of the cross-functional packaging and labeling development and approval process.

**Maintain and Roll Up Compliance Data**

Global Specification Management provides the ability to maintain compliance data at each level of the specification genealogy. Compliance data includes compliance standards (such as kosher, vegan, and nongenetically modified), allergens, intolerances, additives, and analytical properties (such as chemical, physical, microbiological, and sensory). With Global Specification Management, you can roll up the compliance data from raw materials through the manufacturing processes to the finished products.

**Maintain and Roll Up Nutrient Data**

Global Specification Management enables you to maintain nutrient data at the ingredient level by leveraging the food composition library feature, which includes nutrient data loaded from the standard reference databases that you select. When implemented with the Design Workbench module of Oracle's Agile Formulation and Compliance for Process, Global Specification Management also allows you to roll up nutrient data from raw materials through manufacturing processes to the finished products, taking into account the specific parameters tied to the component-level yield, batch-level yield, water gain/loss factor, and nutrient degradation.

**Manage Nutrition and Ingredient Labeling**

When implemented with the Design Workbench module, Global Specification Management allows you to create a nutrient profile that contains the finished product's nutrition values. You can use the required rounding rules, such as the Nutrition Labeling and Education Act (NLEA) for the U.S., in order to generate the appropriate rounded values. You can then print the nutrition data based on nutrition panel formats, such as the ones included in the NLEA. In addition, Global Specification Management allows you to engineer the most-desirable ingredient statement for the finished products, based on a flexible user-defined set of options

and rules, such as renaming, grouping, aliasing, and reconstituting. It also tracks all changes through an auditing feature.

### **Determine Applicable Label Claims**

With Global Specification Management, you can determine which nutrient claims are applicable to the finished products based on nutrient data and specific product characteristics.

### **Integrate with Internal Systems**

In conjunction with the Content Synchronization and Syndication module, Global Specification Management enables you to syndicate data from Global Specification Management to any internal systems, such as ERP, master data management, and procurement. It uses publication paths to describe the attributes, workflow, and messaging to be embedded into the syndication. This deep process integration makes product information available to downstream systems in real time, shortening the time to market for new products.

### **Syndicate Data to Trading Partners**

In conjunction with the Content Synchronization and Syndication module, Global Specification Management allows you to syndicate specification data to any external data pools, such as ISYNC and EANnet, using publication paths to describe the attributes, workflow, and messaging to be embedded into the syndication.

### **Supply Chain Relationship Management**

The Supply Chain Relationship Management module of Agile Product Data Management for Process provides you with a collaborative business process for managing supply chain relationships with suppliers, distributors, and other supply chain participants. It enables you to create a single version of the truth of the entire supply network by building sourcing approvals across all supply chain entities, supporting as many supply chain tiers as needed.

With Supply Chain Relationship Management, you can connect and integrate the entire supply network, with the interrelationships among all supply chain participants readily available to the users—all the way down to the individual specification level. Supply Chain Relationship Management allows you to create and maintain all supply chain entities and sourcing approvals as well as syndicate supplier data to other enterprise systems.

### **Manage the Approved Supplier List**

Supply Chain Relationship Management lets you manage your approved supplier list (ASL). You can specify companies and facilities as far upstream in the supply network as needed and define sourcing approvals down to the specification level. This level of granularity in establishing the ASL across the entire supply network is a prerequisite for establishing traceability and accountability. With Supply Chain Relationship Management, you can store required documents at the company, facility, or specification-related sourcing approval level, thus monitoring product quality, food safety, and supplier conformance in multiple supply chain tiers.

**Improve Sourcing Strategies**

Supply Chain Relationship Management integrates all supply chain entities and sourcing approvals, giving you an in-depth understanding of the entire supply network down to the level of individual specifications. With this data, you will be able to enhance your local, regional, and global sourcing strategies at the category and supplier level, thereby simplifying supply chains and reducing product costs.

**Rationalize and Consolidate suppliers**

Supply Chain Relationship Management enables you to leverage the single version of the truth to understand how many suppliers are involved through the supply network for all raw material categories. You can then use this information to rationalize and consolidate suppliers, improve supply chain performance, and minimize overall costs.

**Improve Supplier Collaboration**

When implemented with the Supplier Portal module of Oracle's Agile Product Supplier Collaboration for Process, Supply Chain Relationship Management allows you to share with your suppliers the specifications and documents stored in Global Specification Management, and the contact information stored in Supply Chain Relationship Management. Supply Chain Relationship Management provides suppliers with the visibility to review and verify the data stored within their customers' systems, greatly enhancing the alignment and collaboration between value chain partners.

Additionally, through the Supplier Portal module, suppliers can directly maintain their own contact data within Supply Chain Relationship Management, increasing data accuracy and timeliness while reducing the workload for those managing the many players within a supply chain.

**Content Synchronization and Syndication**

The Content Synchronization and Syndication module of Agile Product Data Management for Process provides a proven framework for secure, reliable content synchronization, supporting a variety of industry-standard XML-based syndication formats and distribution methods. It allows for the syndication of data from Oracle's Agile product lifecycle management for process applications to distributed enterprise systems, trading partners, and industry exchanges—improving data integrity across the enterprise and with value chain partners, and facilitating global visibility and data harmonization.

Content Synchronization and Syndication automates the task of distributing the product data that drives your business processes—either on demand or on a scheduled basis. The publication process and results are fully visible from within the related specifications, allowing for closed-loop monitoring.

**Automate Data Syndication**

With Content Synchronization and Syndication, the syndication of data to downstream systems is fully automated based on configurable publication paths. It uses flexible syndication methods that leverage XML Web services-based interoperability, Simple Object Access Protocol, legacy batch, electronic data

interchange, Secure File Transfer Protocol, ebXML Messaging Service, and Applicability Statement 2-compliant messaging engines. Content Synchronization and Syndication supports on-demand and scheduled syndication based on predefined business rules. It also provides workflow-enabled tracking and management of publication requests.

### **Syndicate Data Externally with Global Data Synchronization Network-Compliant Synchronization**

Together with the Global Specification Management module, Content Synchronization and Syndication forms the backbone of a Global Data Synchronization Network (GDSN)-compliant solution. Content Synchronization and Syndication is used on a daily basis to syndicate data into the GDSN in North America, Europe, Australia, and New Zealand.

### **Syndicate Data to Internal Systems**

You can configure Content Synchronization and Syndication to support syndication to internal systems, such as ERP. Linking preconfigured publication requests to selected workflow states can automatically syndicate specifications. Content Synchronization and Syndication enables messages and responses from the target systems to be presented within the specifications, allowing you to know the status of the syndication at all times.

### **Reporting**

The Reporting module of Agile Product Data Management for Process enables you to extract product and supplier data from the Global Specification Management and Supply Chain Relationship Management modules. You can generate your own reports based on user-defined layouts and reporting criteria.

The Reporting module is Web based, with output formats that include XML, Microsoft Excel, and comma-separated values. In contrast to traditional enterprise reporting solutions, it operates against the object model rather than the database itself, fulfilling the majority of business users' needs while respecting the security model established within Oracle's Agile product lifecycle management for process applications. It is common for a company to integrate the Reporting module, which meets traditional business users' reporting needs, with the company's enterprise reporting solution for global data warehousing and business intelligence needs.

### **Generate User-Defined Layouts**

Reporting allows you to define any number of reporting layouts. You can select from a number of reporting criteria to display the required specification and supplier data stored in the Global Specification Management and Supply Chain Relationship Management modules.

### **Generate Reports**

Reporting lets you generate reports asynchronously once you have defined the reporting layout and query. After the report is logged into a queue, you will receive an email as soon as the report is ready to be viewed. The email will contain a URL that will guide you directly back to the report queue, from which you can open the

**RELATED PRODUCTS**

Agile product lifecycle management for process is a fully integrated, comprehensive suite of software and services for collaborative product lifecycle management in the consumer goods industry. Agile product lifecycle management for process solutions provide visibility across product portfolios, projects, activities, and suppliers, allowing you to achieve optimal results from your innovation efforts.

AGILE PRODUCT  
LIFECYCLE  
MANAGEMENT FOR  
PROCESS BUNDLES

- Agile Product Data Management for Process
  - Agile Formulation and Compliance for Process
  - Agile Product Supplier Collaboration for Process
- Agile New Product Development and Introduction for Process

report. The Reporting module will open up directly in Excel, where you can further review and analyze reports.

**Preserve Security Tied to Underlying Modules**

Reporting provides full integration with the security system of Agile product lifecycle management for process. The data presented to you in the reports fully respects your security profile within Global Specification Management and Supply Chain Relationship Management. The reports only include data that the user can access and view online.

**Contact Us**

For more information about how your organization can leverage the power of Oracle's Agile Product Data Management for Process, please visit [oracle.com](http://oracle.com) or call +1.800.ORACLE1 to speak to an Oracle representative.

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