**Oracle® Application Integration Architecture**

Agile Product Lifecycle Management Integration Pack for SAP:
Design to Release 11.2 - Release Notes

Release 11.2

**E37063-01**

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ORACLE®

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# Overview of Agile Product Lifecycle Management Integration Pack for SAP: Design to Release 11.2

The Agile Product Lifecycle Management Integration Pack for SAP: Design to Release 11.2 supports seamless exchange of product content between Oracle Agile PLM and SAP ERP for new product introductions and also product design updates.

The key processes supported are as follows:

    a) New Part Request (Item Number from SAP).

    b) New Product Introductions (Items, Bill of Material (BOM), Revisions, and more).

    c) Product Design Updates (engineering change order (ECO), manufacturing change order (MCO) or a site change order (SCO)).

    d) Synchronization of Item Cost attributes from SAP to Agile.

# Value Proposition for Agile Product Lifecycle Management Integration Pack for SAP: Design to Release 11.2

This release contains enhancements to the Queue Application.

The Queue Application now has two roles namely, ChangeOrderUIAdminRole and ChangeOrderUIBusinessRole. Access to the Queue Application requires grant of one of the above two roles. The ChangeOrderUIAdminRole role has full access to the application, while ChangeOrderUIBusinessRole has read-only access. Two users are configured out of the box, one for each role, ChangeOrderUIAdmin and ChangeOrderUIBusiness. The Weblogic administrator is automatically granted the ChangeOrderUIAdminRole role.

The Queue Application also now provides easy linkage to the SOA Composite instances of a Change Order. The ChangeOrderUIAdminRole role can directly access the flow trace of a SOA Composite instance through Weblogic EM console.

Agile Product Lifecycle Management Integration Pack for SAP: Design to Release 11.2 is focused on the following key areas:

- Support for Oracle AIA Foundation Pack 11.1.1.6, RUP patch 14253266 or later.

- Enhancements to the Queue Application.


## Key Functionality includes the following:

- New product introductions (Items & BOM).

- Product design updates (ECO, MCO and SCO).

- ECO queue management and process monitoring.

- Synchronization of Item Cost attributes from SAP to Agile.

- New part request.

- Multi-site PLM and multi-plant manufacturing support.

- Integrated, extensible business process execution workflows and notifications framework.

- Cross-application business process models and domain value maps.

- Robust process monitoring and user-friendly error handling.

- Support for user-extensible business logic, validations and transformation.


Oracle Application Integration Architecture replaces traditional enterprise application integration with flexible, pre-built, standards-based business process integration solutions. As an AIA offering, the Design to Release PIP includes all the necessary business process models, canonical objects, and web services that you need out-of-the-box. Now you can quickly orchestrate a sustainable design to release business process across Agile PLM and SAP with reduced cost and risk. In addition, the AIA adaptable framework enables you to extend the integration to accommodate your specific business needs.

# Product Enhancements for Agile Product Lifecycle Management Integration Pack for SAP: Design to Release 11.2

- Restricted access of the Queue Application via the admin and business roles.
- Easy access to SOA Composite instance information from the Queue Application

## Participating Applications Certified Versions

The following are the versions of the applications that are certified for use with this release:

| Application | Versions |
|---|---|
| Agile PLM | 9.2.2.6 /9.2.2.7/ 9.3/ 9.3.0.1/9.3..0.2/9.3.1/9.3.1.1/9.3.1.1.2 |
| SAP | R/3  4.7/ ECC 6.0 |

## AIA Foundation Pack

The Agile Product Lifecycle Management Integration Pack for SAP: Design to Release 11.2 is supported by Oracle AIA Foundation Pack 11.1.1.6, RUP patch 14253266 or later and available on Oracle Fusion Middleware/SOA Suite 11.1.1.6.

**For more information**, see *Oracle Application Integration Architecture Foundation Pack 11g Release 1 (11.1.1.6) Release Notes.*

# Agile Product Lifecycle Management Integration Pack for SAP: Design to Release 11.2 Features

The integration between Agile Product Lifecycle Management (PLM) and SAP is designed to enable the product development process and address the primary use cases around the synchronization of product content information between Agile Product Collaboration and SAP. This allows for rapid implementation of Oracle's next-generation integrated enterprise PLM processes helping the customers reduce costs and any risks associated with typical third-party and custom integrations.

The business benefits of this integration are as follows:

- Reduced time to market for new products.
- Faster time to volume.
- Improved product quality.
- Minimum supply chain disruption from new product introductions.
- Predictable and sustainable product and process innovation.
- Lower total cost of ownership of enterprise PLM platform.
- Reduced implementation risks.

# Agile PLM Integration Pack for SAP: Design to Release 11.2 Architecture

The Agile PLM Integration Pack for SAP: Design to Release 11.2 architecture is illustrated in the following diagram:
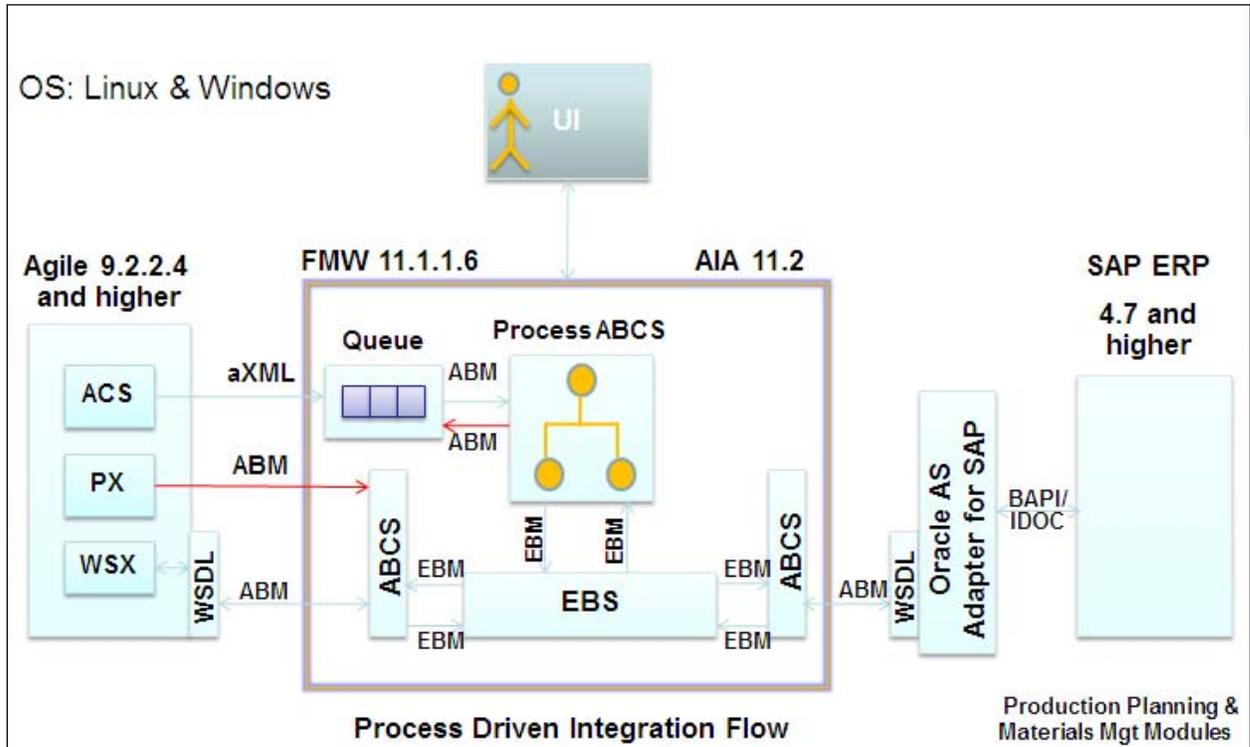


The Agile PLM Integration Pack for SAP: Design to Release 11.2 includes the following functionality:

- Manufacturing release of new product definition and product launch.
- Change management of previously launched products.
- Synchronization of Item cost attribute information from SAP to Agile PLM.
- Monitoring and control of the change processing and validation queues.

The Agile PLM Integration Pack for SAP Release 11.2 uses the following Enterprise Business Objects (EBO):

- Item EBO.
- EngineeringChangeOrder EBO.

- BillOfMaterials EBO.

The Agile PLM Integration Pack for SAP Release 11.2 supports the following functional flows:

- Process integration for new part request.
- Process integration for change order release.
- Process integration for item attribute update.

# Process Integration for New Part Request

Agile PLM is the system of record for product design and part information, new part numbers themselves may originate in a system outside Agile. This can easily be understood when looking at the interactions of various roles that can be involved in the process of generating new part numbers.

An engineer designing an electronic assembly, for example, a circuit board may need a part that cannot be found in the system, for instance, a new resistor. The engineer raises a new part request to doc control to route the request to materials managers for review. A buyer looks into catalogs offered by approved manufacturers and finds some parts that meet the criteria. The buyer then contacts the manufacturers, confirms availability, procures specifications, and then approves the new part request with the new manufacturer part numbers attached to it. Doc control compiles all the information and assigns an internal part number corresponding to the manufacturer parts and informs the engineer.

A New Part Request (NPR) process can be triggered on demand by user in Agile PLM. This is a synchronous process, which reserves and fetches the part number from the SAP system.

# Process Integration for Change Order Release

The change order release consists of new Part/Product Release (PREL) and Product Design Modification (PDM) flows from Agile PLM triggered by a standard ECO or a manufacturing change order (MCO) or a site change order (SCO) release event in Agile PLM. While Agile PLM is the system of record for item description, design, specs, and other information, SAP typically has many more attributes and placeholders for information than the Agile PLM system. Hence, the change order release needs to be updated in the SAP. A corresponding Engineering Change Order is created in SAP with the appropriate status.

The release of a change order in Agile PLM acts as a trigger for the synchronization of product design information with SAP. Because Agile PLM is a system of records for product design data, the synchronization process involves transfer of the released revision of product design from Agile PLM to the SAP.

# Process Integration for Item Attribute Update

As a necessary part of the manufacturing update process, the ability to update a change order line in Agile PLM with updates on the Item cost attributes from the SAP system is a key component of the synchronization capability of the integration. This process is done through a batch operation in SAP.

# Additional Resources

There are additional resources that can help your organization learn more about this release.

| Resource | Navigation |
|---|---|
| Process Integration Pack Implementation Guides | http://www.oracle.com/technetwork/apps-tech/aia/documentation/index.html |
| Foundation Pack Guides | http://www.oracle.com/technetwork/middleware/foundation-pack/documentation/index.html |
| Installation and Upgrade Guide | http://www.oracle.com/technetwork/apps-tech/aia/documentation/index.html |

Visit the My Oracle Support/Oracle Metalink website frequently to keep apprised of ongoing changes.

For other sources of documentation, visit Oracle Technology Network: Oracle Documentation.

For training opportunities, visit Oracle University.