

## **Oracle® Application Integration Architecture**

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

Release 11.1

**E25739-02**

January 2012

Oracle Application Integration Architecture Agile Product Lifecycle Management Integration Pack for SAP:  
Design to Release Release Notes, Release 11.1

E25739-02

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# Overview of Agile Product Lifecycle Management Integration Pack for SAP: Design to Release 11.1

The Agile Product Lifecycle Management Integration Pack for SAP: Design to Release 11.1 supports exchange of product content between Oracle Agile PLM and SAP ERP for new product introductions as well as product design updates. These best practice processes orchestrate a near real-time and highly responsive manufacturing release process for new products and design update, from Agile PLM to SAP ERP.

The Key Processes supported are:

- New Part Request ( Item Number from SAP )
- New Product Introductions ( Items, BOMs, Revisions etc)
- Product Design Updates ( ECO, MCO, SCO)
- Synchronization of Item Cost attributes from SAP to Agile.

# Value Proposition for Agile Product Lifecycle Management Integration Pack for SAP: Design to Release 11.1

The Agile Product Lifecycle Management Integration Pack for SAP: Design to Release 11.1 retains the flavor of the 2.5 AIA release and is built on the top of Oracle AIA Foundation Pack 11g. This release of the pre-built integration also includes bug fixes from prior releases.

Agile Product Lifecycle Management Integration Pack for SAP: Design to Release 11.1 is focused on the following key areas:

- Support for the Oracle AIA Foundation Pack 11g
- Bug fixes

## Key Functionalities include:

- 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 of the necessary business process models, canonical objects, and web services 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 11.1

No integration process enhancements were done for the Agile Product Lifecycle Management Integration Pack for SAP: Design to Release in the 11.1 release.

## 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..0.2/9.11.1
SAP	R/3 4.7/ ECC 6.0

## AIA Foundation Pack

The Agile Product Lifecycle Management Integration Pack for SAP: Design to Release 11.1 is supported by Oracle AIA Foundation Pack 11gR1 (11.1.1.4.0 & 11.1.1.5.0) and available on Oracle Fusion Middleware/SOA Suite 11g (11.1.1.4.0 & 11.1.1.5.0).

**For more information**, see *Oracle Application Integration Architecture Foundation Pack 11g Release 1 (11.1.1.4.0 & 11.1.1.5.0) Release Notes*.

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

## 11.1 Features

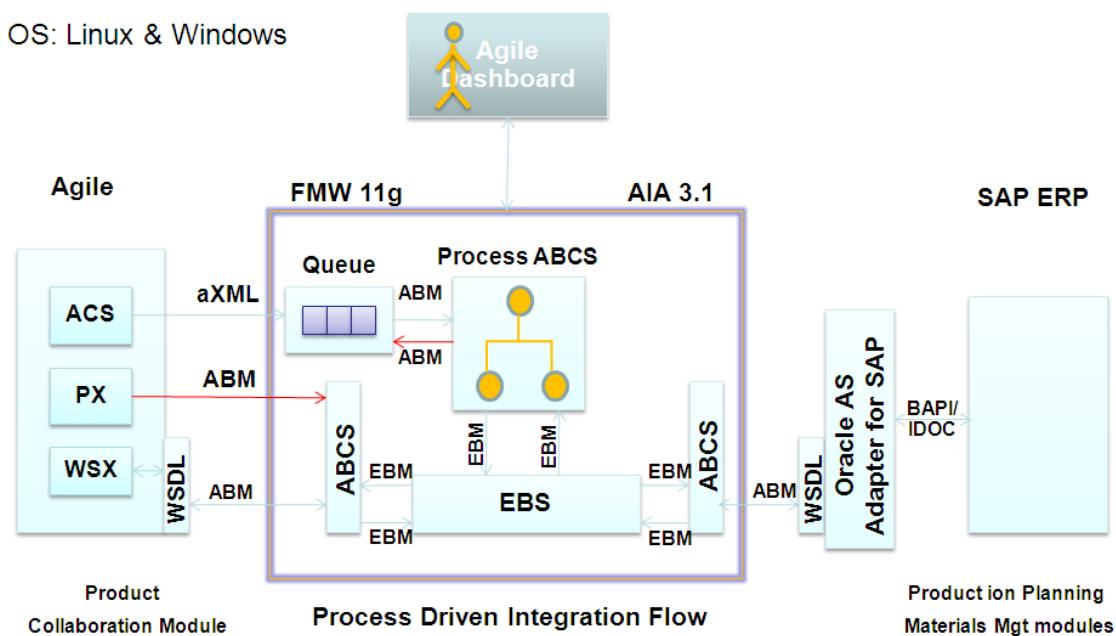
The integration between Agile Product Lifecycle Management (PLM) and SAP is designed to enable the product development process and address the primary use cases around the synchronization of product content information between Agile Product Collaboration and SAP. This allows for rapid implementation 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:

- 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 11.1 Architecture

The Agile PLM Integration Pack for SAP: Design to Release 11.1 architecture is illustrated in the following diagram:



The Agile PLM Integration Pack for SAP: Design to Release 11.1 includes the following functionalities:

- 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 11.1 uses the following Enterprise Business Objects (EBO):

- Item EBO
- EngineeringChangeOrder EBO
- BillOfMaterials EBO

The Agile PLM Integration Pack for SAP Release 11.1 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 of Agile. This is easily 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 a couple of 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 comprises 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.

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

## 11.1 Bug Fixes

The following bug fixes were included in this Release 11.1 of the Agile PLM Integration Pack for SAP: Design to Release:

- 9316577 - CAVS needs to be enabled for the Agile PLM provider services.

**For more information** about additional issues, see *Known Issues and Workarounds* (KIWA) on My Oracle Support.

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### Additional Resources

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

Resource	Navigation
Pre-Built Integration Implementation Guides	Oracle Technology Network: <a href="http://www.oracle.com/technetwork/apps-tech/aia/documentation/intarch-093745.html">http://www.oracle.com/technetwork/apps-tech/aia/documentation/intarch-093745.html</a>
Foundation Pack Guides	Oracle Technology Network: <a href="http://www.oracle.com/technetwork/apps-tech/aia/documentation/intarch-093745.html">http://www.oracle.com/technetwork/apps-tech/aia/documentation/intarch-093745.html</a>
Installation and Upgrade Guide	Oracle Technology Network: <a href="http://www.oracle.com/technetwork/apps-tech/aia/documentation/intarch-093745.html">http://www.oracle.com/technetwork/apps-tech/aia/documentation/intarch-093745.html</a>

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