

**Oracle® Application Integration Architecture -
Foundation Pack 2.4: Release Notes**

Release 2.4

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Value Proposition for Oracle Application Integration Architecture Foundation Pack 2.4

Oracle Application Integration Architecture (AIA) Foundation Pack is a pre-built integration solution that provides the programming model, best practices, application-independent data model, and supporting tools to implement, test, diagnose, and govern your service-oriented architecture (SOA).

The Oracle AIA Foundation Pack provides the following benefits:

- Unify your application portfolio on a standardized framework.
 - Join Oracle and non-Oracle applications on a robust, open standards-based platform.
 - Integrate third-party solutions through application-independent design.
 - Create process-driven application integrations.
- Minimize integration costs and risk.
 - Speed time-to-value with pre-built business objects and services.
 - Develop flexible integrations using an application-independent model.
- Adapt business processes to changing business needs.
 - Optimize business operations using documented business processes.
 - Simplify upgrades through the use of common objects and services.
 - Plug and play applications, through Enterprise Business Services.

Enhancements in Oracle AIA Foundation Pack 2.4 focus on the following areas:

- Installation and upgrade
- Enterprise Business Objects (EBOs)
- Business Process Models
- The Business Service Repository (BSR)
- Developer Tools

Product Enhancements for Oracle Application Integration Architecture Foundation Pack 2.4

This section discusses enhancements included in Oracle Application Integration Architecture (AIA) Foundation Pack 2.4. These enhancements fall into the following areas:

- Installation and upgrade
- Enterprise Business Objects (EBOs)
- Business Process Models
- The Business Service Repository (BSR)
- Developer Tools

Installation and Upgrade

The Oracle AIA Installer is wizard-based and completely installs and configures Oracle AIA products to your infrastructure. The Oracle AIA Installer collects the following information:

- The location to which relevant products should be installed (AIA Home).
- Details of the Oracle SOA Suite and database installation.
- Participating application details, and so forth.

Upon being provided with this information, the Oracle AIA Installer copies the complete software to the specified AIA Home location and continues to deploy various artifacts to the servers.

Some Oracle AIA Installer actions include deploying BPEL and Enterprise Service Bus processes to the SOA server, creating tables and queues in the database, and so forth.

The *Oracle Application Integration Architecture: Installation and Upgrade Guide* provides step-by-step instructions for using the Oracle AIA Installer, as well as prerequisites and post-install steps.

In addition to supporting new installations, the Oracle AIA Installer also supports upgrades from previous installations of Oracle AIA. The *Oracle Application Integration Architecture: Installation and Upgrade Guide* includes an upgrade section that provides detailed instructions on performing an upgrade.

As a part of Oracle AIA 2.4, the Oracle AIA Installer provides the following additional capabilities:

- Passwords provided during installation are stored and encrypted in AIA Home. Since Oracle AIA installation requires administrative passwords (for example, database), the Oracle AIA Installer ensures that these passwords are not expressed in clear text.
- The Oracle AIA Installer allows the installation of direct process integration packs (PIPs) (Oracle AIA PIPs that are not based on Oracle SOA Suite and Oracle AIA Foundation Pack).

For direct PIPs, Foundation Pack installation is optional.

- A new UI called "About AIA" is available through the existing Oracle AIA UI. This UI provides the following information:
 - Oracle AIA installation directory and log details
 - Information about the tech stack on which the Oracle AIA installation was performed
 - Participating application information provided during installation
 - Oracle AIA and SOA patches applied to the environment

This UI offers customers and Oracle Support a quick way to access information about the installation from one place through a web browser, rather than having to physically access multiple server locations.

- Publishing to Oracle Service Registry (OSR) is no longer performed through the Oracle AIA Installer, but rather is handled as a post-installation activity through a command-line utility.

In previous releases, the Oracle AIA Installer asked users to decide during installation whether or not they wanted to publish to the OSR. If the user didn't want to publish Oracle AIA services to the OSR, they simply skipped the step in the Oracle AIA Installer. If they wanted to publish to the OSR, the Oracle AIA Installer would proceed to publish during the installation, which resulted in a longer install process.

Now, the Oracle AIA Installer just collects OSR information and users can run the command-line utility at a later point in time to publish to the OSR.

Enterprise Business Objects

With each release of the Oracle AIA Foundation Pack, approximately 20 EBOs are introduced or updated. The design of our EBOs begins with industry standards (OAGIS, for example) and is augmented with commonalities found in our best-of-breed application portfolio. Our EBOs provide you with a head start so that you can focus on your business and leave the bulk of the semantic design of the application business objects to us.

New Enterprise Business Objects in Oracle AIA Foundation Pack 2.4

In Oracle AIA Foundation Pack 2.4, the following EBOs were added:

Enterprise Business Object	Description
ProductionRecipe	A Production Recipe is a General recipe. It is an entity that contains the minimum set of information that uniquely defines the manufacturing requirements for a specific product. Production Recipes provide a way to describe products and how those products are produced
BatchProductionOrder	Batch Production Order is a message communicated from business systems to manufacturing operations systems containing a definition of a production order, including the

Enterprise Business Object	Description
	location of the scheduled elements, the publication date of the production order, the time range.
ProductionPerformance	Production Performance is a message from manufacturing operations systems to business systems that can be used for analysis, and tracking production capabilities. It includes the location of the performance, the publication data of the performance report, the duration of the production performance, and the list of production responses making up the production performance report.
ItemLotBalance	It contains the Item Lot details including its available balance at a specified inventory location for a specified date.
InventoryTransaction	Inventory Transaction deals with information on inventory consumption, balance adjustments and transfers associated with items in an inventory.
ItemCost	Item cost is the amount of cash or cash equivalent paid or the fair value of other consideration given to acquire a Material at the time of its acquisition or construction.
BlanketPurchaseAgreement	A Blanket Purchase Agreement is a long term agreement for the purchase of goods and services from a supplier. It includes terms and conditions, details of the goods or services to be purchased from the supplier and negotiated amounts. The blanket agreement does not contain delivery dates or individual delivery quantities or amounts. The details are specified subsequently in purchase orders released against the agreement

Updated Enterprise Business Objects in Oracle AIA Foundation Pack 2.4

In Oracle AIA Foundation Pack 2.4, the following EBOs were updated:

Enterprise Business Object	Updates
AdvanceShipmentNotice	<ul style="list-style-type: none"> Added PurchaseOrderReference to ShipmentItem
CustomerParty	<ul style="list-style-type: none"> Added CustomerPartySpecification component as a child of CustomerParty Added the following attributes to CustomerPartyPrivacyProfile: <ul style="list-style-type: none"> CommunicationDissuasionIndicator HighlySensitivePartyCommunicationDissuasionIndicator DeceasedPartyCommunicationDissuasionIndicator

Enterprise Business Object	Updates
	ator
ShipmentRequest	<ul style="list-style-type: none"> Added Status to ShipmentRequest Added Status to ShipmentRequestOrder Added CancelShipmentRequest special operation Added CancelShipmentRequestOrder special operation
ResourceCalendarEntry	<ul style="list-style-type: none"> Added AvailabilityStatus to ResourceCalendarEntry
ShipmentAdvice	<ul style="list-style-type: none"> Added ShipmentRequestOrderLineReference to ShipmentItem
ItemBalance	<ul style="list-style-type: none"> Added LicensePlateNumberID to LocationBalance
PriceList	<ul style="list-style-type: none"> Added Identification to LinePrice for Communications only Added RatePlan to LinePrice for Communications only
FulfillmentOrder	<ul style="list-style-type: none"> Added SalesOrderReference under FulfillmentOrder Added SalesOrderLineReference under FulfillmentOrderLine
ProvisioningOrder	<ul style="list-style-type: none"> Added SalesOrderReference and FulfillmentOrderReference under ProvisioningOrder Added SalesOrderLineReference and FulfillmentOrderLineReference under ProvisioningOrderLine
PayableInvoice	<ul style="list-style-type: none"> Added new operation CalculateDriverIncentiveCompensationListEBM
SupplierParty	<ul style="list-style-type: none"> Added TradingLocationProfileAddressContact component as a child of TradingLocationProfileAddress to support multiple contacts for a TradingLocationProfileAddress
TransportationSalesOrder	<ul style="list-style-type: none"> Added ActivityCode, Comments, and Duration under the CarrierRouteStopTask component

Updated Common Components

In Oracle AIA Foundation Pack 2.4, the following changes were made to common components:

Common Component	Update
ActivityIdentification	Added new common component to Core and Industry of IdentificationType
BatchProductionOrderIdentification	Added new common component to Core and Industry of

Common Component	Update
	IdentificationType
ItemFormulaIdentification	Added new common component to Core and Industry of IdentificationType
ItemFormulaMaterialIdentification	Added new common component to Core and Industry of IdentificationType
ItemLotIdentification	Added new common component to Core and Industry of IdentificationType
PrimaryItemLotIdentification	Added new common component to Core and Industry of ItemLotIdentification type
ManufacturingRoutingIdentification	Added new common component to Core and Industry of IdentificationType
ManufacturingRoutingActivityIdentification	Added new common component to Core and Industry of IdentificationType
ManufacturingRoutingOperationIdentification	Added new common component to Core and Industry of IdentificationType
OperationIdentification	Added new common component to Core and Industry of IdentificationType
ProductionOrderActivityIdentification	Added new common component to Core and Industry of IdentificationType
ProductionOrderIdentification	Added new common component to Core and Industry of IdentificationType
ProductionOrderMaterialIdentification	Added new common component to Core and Industry of IdentificationType
ProductionOrderOperationIdentification	Added new common component to Core and Industry of IdentificationType
ProductionOrderResourceIdentification	Added new common component to Core and Industry of IdentificationType
RecipeIdentification	Added new common component to Core and Industry of IdentificationType
RecipeValidityRuleIdentification	Added new common component to Core and Industry of IdentificationType
ShipmentRequestIdentification	Added new common component to Core and Industry of IdentificationType
ShipmentRequestOrderIdentification	Added new common component to Core and Industry of IdentificationType
ShipmentRequestOrderLineIdentification	Added new common component to Core and Industry of IdentificationType
SupplierPartyTradingLocationProfileIdentification	Added new common component to Core and Industry of IdentificationType
SupplierUpdateNotificationEmailCommunication	Added new common component to Core and Industry of

Common Component	Update
	EmailCommunicationType
SupplierUpdateNotificationFaxCommunication	Added new common component to Core and Industry of FaxCommunicationType
Contact	Added ContactWebsiteCommunication to Contact for Core and Industry
ContactAddressCommunication	Added Status to ContactAddressCommunication for Core and Industry
ContactPhoneCommunication	Added Status to ContactPhoneCommunication for Core and Industry
ContactFaxCommunication	Added Status to ContactFaxCommunication for Core and Industry
ContactEmailCommunication	Added Status to ContactEmailCommunication for Core and Industry
Effectivity	Added new common component to Core and Industry of EffectivityType which contains ActiveIndicator and TimePeriod
Reason	Added new common component to Core and Industry of ReasonType which contains Code and Description
UpdateReason	Added new common component to Core and Industry of ReasonType
AvailabilityStatus	Added new common component to Core and Industry of StatusType
ProcessParameter	Added new common component to Core and Industry of ProcessParameterType which contains Identification, Name, Description, TypeCode, MinimumValue and MaximumValue
PriceUpdatePercentTolerance	Added new common component to Core and Industry of PercentToleranceType
ShipmentItem	Fixed Identification common component as optional and Added PurchaseOrderReference and ShipmentRequestOrderLineReference for Core and Industry
PayableInvoiceLineReference	Fixed PayableInvoiceLineReference by using PayableInvoiceLineIdentification
PartyLocation	Added SeasonalIndicator (Attribute) for Core and Industry
ObjectIdentification	Added new common component to Core and Industry of IdentificationType
PerformanceReviewRatingIdentification	Added new common component to Core and Industry of IdentificationType
PerformanceReviewRatingModelIdentification	Added new common component to Core and Industry of IdentificationType

Common Component	Update
PersonIdentification	Added new common component to Core and Industry of IdentificationType
TalentProfileIdentification	Added new common component to Core and Industry of IdentificationType
TalentProfileInstanceQualifierIdentification	Added new common component to Core and Industry of IdentificationType
TalentProfileInstanceQualifierSetIdentification	Added new common component to Core and Industry of IdentificationType
TalentProfileTypeIdentification	Added new common component to Core and Industry of IdentificationType
TalentProfileContentItemCatalogIdentification	Added new common component to Core and Industry of IdentificationType
TalentProfileContentItemIdentification	Added new common component to Core and Industry of IdentificationType
TalentProfileContentTypeIdentification	Added new common component to Core and Industry of IdentificationType
TalentProfileContentTypePropertyIdentification	Added new common component to Core and Industry of IdentificationType
WebsiteCommunication	Added new common component to Core and Industry of WebsiteCommunicationType which contains WebsiteURI, UseCode and Preference
ContactWebsiteCommunication	Added new common component to Core and Industry of ContactWebsiteCommunicationType which contains Identification, WebsiteCommunication and Status

New Reference Components

In Oracle AIA Foundation Pack 2.4, the following reference components were created:

- ActivityReference
- BatchProductionOrderReference
- SupplierPartyTradingLocationProfileReference
- DefaultSupplierPartyTradingLocationProfileReference
- SourceDocumentLineReference
- ItemFormulaReference
- CreationBusinessUnitReference
- ProcurementBusinessUnitReference
- OriginalItemReference

- ItemFormulaMaterialReference
- ItemLotReference
- SupplierItemLotReference
- ParentItemLotReference
- ManufacturingRoutingReference
- ManufacturingRoutingActivityReference
- ManufacturingRoutingOperationReference
- ShipmentRequestOrderLineReference
- OperationReference
- ProductionOrderReference
- ProductionOrderActivityReference
- ProductionOrderMaterialReference
- DependentProductionOrderMaterialReference
- PhantomProductionOrderMaterialReference
- ProductionOrderOperationReference
- ProductionOrderResourceReference
- RecipeReference
- SourceRecipeReference
- RecipeValidityRuleReference
- PerformanceReviewRatingReference
- PerformanceReviewRatingModelReference
- PersonReference
- OwnerPersonReference
- ObjectReference
- TalentProfileReference
- SourceTalentProfileReference
- TalentProfileInstanceQualifierReference
- TalentProfileTypeReference
- TalentProfileContentItemCatalogReference
- TalentProfileContentItemReference
- TalentProfileContentTypeReference

- RelatedTalentProfileContentTypeReference
- TalentProfileContentTypePropertyReference

Business Process Models

Oracle Business Process Models (BPMs) include a set of activities that organizations perform to either optimize their business processes or adapt them to new organizational needs. Important elements include business process modeling and analysis (BPA), orchestration (BPEL), and business activity monitoring (BAM).

The BPA element allows a business analyst to create business process models depicting the desired optimized business processes. These models act as a communication device and design blueprint for the technical realization of the desired business process. They provide a business foundation for the addition of technical orchestration details. In addition, they serve as a baseline for modifications resulting from business activity monitoring results.

The published models include hyperlinks to entries in the BSR, where technical details are described for Oracle AIA integration artifacts.

The Business Process Publisher is included for you to be able to view the published set of models and to allow business and technical analysts throughout your enterprise to view the models using a simple web browser. For full consumption of the delivered models, the source database is also included with Oracle AIA 2.4. A licensed copy of the Business Process Architect is required to restore the source database and use the models.

Oracle AIA 2.4 includes Reference Process Models for the following:

- Oracle AIA Foundation Pack
- Oracle Demantra Sales and Operations Planning Integration to Hyperion Planning
- Oracle Transportation Management Integration Pack for Siebel CRM and Oracle E-Business Suite: Transportation Order Management
- Oracle Transportation Management Integration Pack for Oracle E-Business Suite: Driver Management
- Oracle Transportation Management Integration Pack for Oracle E-Business Suite and Siebel CRM: Financial Management

Delivered model content includes the Level 0, Level 1, Level 2, and Level 3 models for those processes supported by Oracle AIA 2.4.

Model content is cumulative and includes models delivered with prior Oracle AIA releases. Up to and including Oracle AIA 2.4, integration artifacts and corresponding Reference Process Models are delivered for portions of the following business processes.

Communications Industry

- Product Lifecycle Management
- Fulfillment
- Assurance

- Billing

Insurance Industry

- Claims

Utilities Industry

- Product Management
- Marketing Campaign
- Billing and Revenue Management
- Sales
- Order Fulfillment
- Customer Service

Financial Services Industry

- Financial Control and Reporting

Retail Industry

- Sales
- Procurement
- Inventory Management
- Financial Control and Reporting

Cross-Industry

- Enterprise Planning and Performance Management
- Marketing
- Sales
- Order Fulfillment
- Customer Service
- Field Service and Depot Repair
- Supply Chain Planning
- Product Management
- Production
- Procurement
- Materials Management and Logistics

- Transportation Management
- Project Management
- Financial Control and Reporting
- Cash and Treasury Management
- Asset Lifecycle Management
- Enterprise Information Management
- Recruiting
- Workforce Deployment
- Workforce Development
- Compensation Management

Cross-Industry Composite Business Flows

- Order to Cash (Siebel Order/Siebel Opportunity to Oracle Order Management/Oracle Transportation Management)
- Design to Release (Agile Product Lifecycle Management to Oracle Product Information Management)
- Lead to Order (JDE E1 to CRM On Demand)

Business Service Repository

The BSR is a SOA repository. In support of SOA governance, the BSR provides visibility into the entire SOA portfolio across Oracle AIA's SOA integration layer. The BSR is an integral part of a customer's SOA evolution. It provides a view into a customer's pre-built, best-in-class, reusable SOA contents that can help jumpstart their SOA uptake. Specifically, the BSR contains the following as its first-class contents:

- **Services:** Enterprise Business Services and Application Business Connector (ABC) Services
- **Objects:** Enterprise Business Objects and Enterprise Business Messages
- **Integration Scenarios:** These cross-application message flows traverse multiple hops of Oracle AIA services. The BSR captures the assets' metadata, relationships, and runtime invocation dependencies in the context of business process logic. It mirrors Oracle AIA's SOA architecture and reflects the end-to-end process implementation across heterogeneous applications.

As a SOA repository, the BSR complements and augments the Universal Description, Discovery, and Integration (UDDI) functionality provided by OSR. It consistently synchronizes contents between the repository and the registry. By combining the repository and the registry, the BSR offers comprehensive visibility coverage to Oracle AIA's SOA landscape throughout the SOA lifecycle: from abstract contents during design-time to concrete assets at run-time.

The primary features of the BSR include:

- Mechanisms to publish and remove contents into the BSR and the UDDI registry in single or bulk modes.
- A UI to search for and browse individual SOA assets in Oracle AIA's ecosystems.
- A UI to locate integration scenarios, and thus discover and learn about invocation dependencies across the SOA assets in the context of business process logic.
- Service-based functional impact analysis.
- A UI to annotate SOA portfolios via flex-fields. The BSR covers the needs of a wide spectrum of users throughout the SOA lifecycle, including functional and business analysts, architects, developers, system integrators, and system administrators.
- Integration with the BPA Publisher to enable rendering of SOA portfolio contents in the context of their supporting process models.

As part of the Oracle AIA Foundation Pack 2.4, the BSR delivers the following features and enhancements:

- Separation of design-time artifact publishing from run-time artifact publishing.

The BSR aims to capture the **complete** SOA content portfolio that Oracle AIA pre-builds and to promote the use and reuse of these pre-built services. In light of the Oracle AIA Common Release Vehicle, all PIPs and Foundation Packs are packaged together for shipment via Oracle AIA. This enhancement ensures that all Oracle AIA design-time contents, whether they are PIP- or Foundation Pack-related, will be published to the BSR, regardless of whether or not a given PIP is activated for deployment during installation. In doing so, this enhancement exposes customers to a larger SOA portfolio that they can leverage to advance their SOA transformation.

- Improved Foundation Pack installation performance

As Foundation Packs grow in terms of the number of pre-built XSDs and WSDLs being delivered, it takes longer to publish Foundation Pack contents. Specifically, the majority of time is taken in the OSR parsing of the XSDs. As Oracle AIA will deliver additional artifacts with each release, the number of artifacts will continue to grow. As such, the OSR publishing sequence and procedures have been refactored to optimize Foundation Pack installation performance.

Developer Tools

Oracle AIA Developer Tools are provided to enhance the productivity of PIP developers, QA engineers, and architects. They can be effectively used by internal PIP teams, partners, and customers. These tools provide generic key functionalities, such as validating data mapping integrity and auditing PIP content. They are also intended to be used for partner code certifications and community code reviews as part of Oracle AIA Exchange.

The following tool has been added to the Developer Tools package for Oracle AIA Foundation Pack 2.4.

For more information about these Developer Tools, see note 782351.1, available on the [My Oracle Support/Oracle MetaLink website](#).

PIP Auditor

PIP Auditor checks the adherence of a PIP's design and development to Oracle AIA guidelines. It contains a number of tests, written to check various PIP design and development standards mandated or recommended by Oracle AIA. The PIP Auditor generates a detailed XML report and a high-level HTML report that flag any violations of Oracle AIA standards and guidelines.

The tool's reports can be useful in detecting and enforcing coding issues, such as redundant calls, which affect performance, and ignorance of Oracle AIA standards, which cover naming conventions, WSDL design practices, process property configurations, and so forth. The reports categorize violations based on various parameters, such as priority, category, audit profile, and so forth, and provide code fix suggestions for the identified violations.

Additional Resources

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

Resource	Navigation
Foundation Pack Guides	My Oracle Support: Knowledge > Oracle Applications > Integrations > Application Integration Architecture > Oracle Application Integration Architecture Foundation Pack Classic MetaLink: Knowledge > Application Integration Architecture > Foundation Pack
Installation and Upgrade Guide	My Oracle Support: Knowledge > Oracle Applications > Integrations > Application Integration Architecture > Oracle Application Integration Architecture Foundation Pack Classic MetaLink: Knowledge > Application Integration Architecture > Foundation Pack
Process Integration Pack Implementation Guides	My Oracle Support: Knowledge > Oracle Applications > Integrations > Application Integration Architecture. Select a Process Integration Pack link. Classic MetaLink: Knowledge > Application Integration Architecture. Select a Process Integration Pack link.

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](#).