

AIA - Methodology

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With Oracle Application Integration Architecture (AIA) Foundation Pack 11g Oracle deliver a prebuilt integration solution and methodology that enables the IT to simplify the application and business process integration in usage of the Service Oriented Architecture paradigm.

Oracle AIA Foundation Pack

AIA Foundation Pack is a comprehensive approach to orchestrating business processes in support of business requirements that spans across the enterprise applications. With AIA Foundation Pack 11g Oracle provide in addition a methodology and tooling for the AIA development lifecycle to come out with a manageable integration solution.

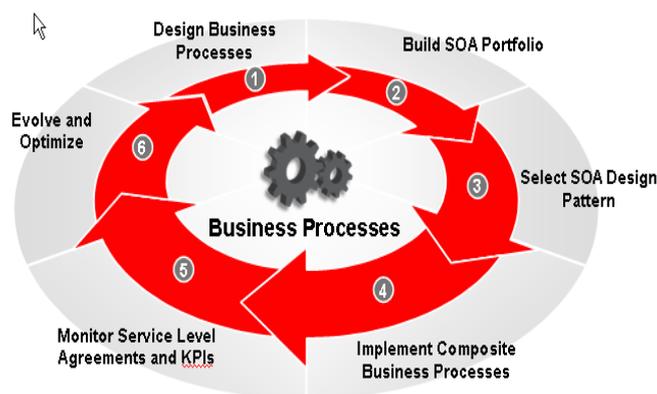


Abbildung 1

AIA Foundation Pack is comprised of the following components:

- **Reference Process Models** – documented, application independent process models that act as a blueprint for driving top-down business process mappings from roles, tasks and activity levels down to the system level
- **Enterprise Business Objects and Services** – reusable, standards-based building blocks that form the basis for a common vocabulary across your applications
- **Predefined Reference Architecture and Methodology** - Oracle's documented and proven approach to implementing service-oriented architecture (SOA)

- **AIA Development Lifecycle** – a comprehensive approach to SOA development, delivery, and deployment. AIA Provides tools that streamlines development lifecycle activities, enforces the AIA methodology, enhances productivity, and ensures quality for SOA initiatives

Reference Process Models Approach

To understand how your business operates or adapts to changes is to understand your processes. In normal circumstance the first step to this is in analyzing the business processes and documented in a standard modeling notation – mostly we use model notations like BPMN or EPK available with the Oracle BPA-Suite, MID Innovator or ARIS.

To speed up the process AIA Foundation Pack includes already a set of Reference Process Models that combine the view of the business analyst with the view of the technical analyst, providing both a business and systems view of the process.

These conceptual process models are based on best practice definitions and rationalized against Oracle applications like Oracle E-Business Suite, PeopleSoft, JD Edwards, and Siebel CRM as well as external authoritative and guiding sources for clarity and completeness.

AIA Foundation Pack intends to continue delivering enterprise models with each release in support of your process integration initiatives.

AIA Development Lifecycle

Service Oriented Architecture (SOA) offer increased flexibility but it requires a consistent, disciplined approach to bring your ideas to reality. Without a structured approach and best practices it can come at the cost of control of and visibility into your business processes. AIA Foundation Pack includes an approach and a set of tools to help you deliver at every phase of an end-to-end SOA lifecycle. The tools not only accelerate the development process but also empower you to enforce methodology, enhance productivity, ensure quality as you manage and govern your entire development lifecycle.

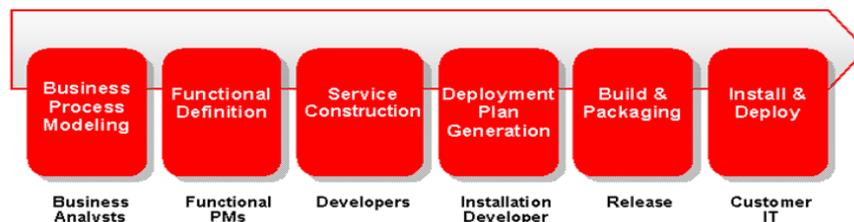


Abbildung 2 AIA Development Lifecycle

The tools promote a best-practice approach to integration development that is closely aligned to a typical SOA development lifecycle. Oracle recognizes that to build enterprise-strength integrations it takes collaboration from members of your organization that play specific roles in each phase of the development lifecycle. AIA Development Lifecycle makes it easier for Business Analysts to translate business objectives into tangible business process models, or provides transparency to Functional

Experts to decompose the models into meaningful business tasks while identifying functional gaps, or guides Developers to implement the business intent in a collaborative setting. Enhancing productivity of each participant while providing visibility to the entire lifecycle.

AIA Development Lifecycle streamlines SOA development lifecycle by offering a set of productivity supporting tools, including:

- **Project Lifecycle Workbench** – facilitates mapping of business processes into feature requirements and its decomposition into a set of business tasks
- **Enterprise Business Object Designer** – used in the lifecycle to integrate, multi-user environment for collaborative creation and management of Enterprise Business Objects and Services
- **Service Constructor** – reduces development time by automating core development tasks, promotes distributed and collaborative SOA development environment
- **SCA Deployment Plan Generator** – a standardized framework that automates and simplifies deployments for complex environments including dev, test and production.
- **Build and Package** – standard ANT based scripts that are used to package the artifacts and deploy this to his target environment.
- **Composite Application Validation System (CAVS)** – a testing and validation infrastructure that enables you to test integrations without having to build it all. You can validate business process integrations, perform black box testing, create response simulators, author and reuse test cases
- **Error handling** – a comprehensive framework for managing errors across the integration layer. It provides a consistent error handling approach for your entire IT landscape

On each lifecycle stage different stakeholder are responsible to deliver the right artifact in usage of the offered tools. Business Process Modeling is done by the business process analyst or experts with less technology knowledge. The functional definition is the process of identifying process capabilities and map them to single unit of works. In this step the solution architect assign the data (EBO), Service (EBS) and responsibilities to each automated function. After the two phases the solution architect hand over the artifacts to the AIA developer with all defined projects in the Lifecycle Workbench, that must be developed in future stages. The Developer is guided in the next steps and carry out the required connector services (ABCS), business service (EBS) and business flows (ABF) implementations.

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