



realMethods

The J2EE Framework you are considering building is done

Model Driven Architecture® (MDA®)

MDA is a suite of OMG established standards that provide an open, vendor-neutral approach to the change of business and technology change. The key standards that make up the MDA suite of standards include Unified Modeling Language™ (UML™), Meta-Object Facility™ (MOF™), XML Meta-Data Interchange (XMI®), and Common Warehouse Meta-Model™ (CWM™). MDA's goal is to separate business logic from the underlying platform technology.

Benefits to MDA

- Forces designers to focus on the business domain model, rather than how to implement that model using J2EE.
- The domain model is no longer to be viewed as a "guideline" in development, but the actual driving force, serving as the basis for development, maintenance and application evolution.
- MDA ensures the generated application model reflects the business requirements defined by the domain model. It also ensures that non-business functional requirements (such as scalability, security, etc.) carry through as well.
- PIM - Platform Independent Models greatly shield an application from upgrades and changes to the targeted technology platform, in this case J2EE.

realMethods Framework MDA Adherence

To initially engage the Framework, development efforts are forced to create an XMI file. This XMI file is the result of constructing a domain model with any popular UML tool, and then exporting to the supported XMI format. This first step is intentional and facilitates the most complete manner to share the business problem with the Framework's code generator.

As described by MDA, realMethods related development is based around a platform independent model (PIM) captured in UML using tools such as Rational Rose, Magic Draw or any other XMI compliant UML modeling tools. Platform specific J2EE patterns and best practices are then used to generate an application according to the targeted tiers.

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Advantage

- Provides the most thorough J2EE pattern coverage
- 100% ownership with source code provided
- Complete UML documentation
- Real world enterprise implementations
- Delivers security, logging, pooling, and more
- Middleware Co. proves MDPB framework maximizes productivity
- Leverage your existing IDE and UML tools
- Improves code consistency and maintainability
- Open to leverage other frameworks and Java libraries

Model
Driven

- Initially engage the framework with a single XMI file
- Guarantees development begins with a model
- Makes the model the driving force of development
- Deters diving directly into coding

Pattern
Based

- Cohesive grouping of the latest core J2EE patterns
- Pattern support for all J2EE tiers
- Maximizes reusability of produced components

Graphical
Code
Generator

- Expedites overall development time
- Selectable patterns to suite requirements
- Generates complete deployable J2EE apps.
- Handles generating Struts 1.1 Presentation tier
- SOA generated as Apache Axis Web Services
- Round-trip code generation
- Consistently applies patterns to a business model

Check our source code into your source control system today!

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