



The Architectural IDE for J2EE/EJB

ArcStyler - MDA@Work

ArcStyler™ is the award winning Architectural IDE for Model Driven Architecture™ according to the OMG leveraging RUP, UML/Rose, and XML/XMLI for the leading J2EE/EJB servers.

"Since 1993, Interactive Objects Software GmbH (iO) has endorsed OMG standards as a cornerstone to professional IT architecture. Early in 2000, iO introduced the concept of an Architectural-IDE, the ArcStyler™, to the marketplace in which the pragmatic concepts found in OMG's MDA initiative are being applied today by companies using UML/XML and diverse J2EE application

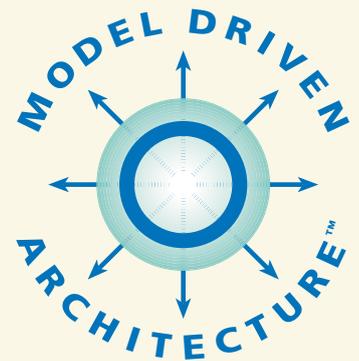
servers. Model-driven development continues to be an important aspect of our architectural style, the Convergent Architecture, and we welcome standardization efforts by the OMG in this area."

Richard Hubert
CEO, Interactive Objects Software GmbH

How ArcStyler supports the OMGs Model Driven Architecture™

The ArcStyler is an Architectural IDE supporting Model Driven Architecture (MDA) according to the OMG. In the ArcStyler, the advantages of MDA are complemented by applying them in the context of an holistic architectural style. By default, this style is the Convergent Architecture. This approach enables a chief architect or corporate IT

department to apply and extend a clean architectural style across entire IT-landscapes and through generations of interoperating systems. In addition, the ArcStyler's unique meta-programming environment permits creation of new architectural styles or the promotion of existing architectures to the level of MDA.



"MDA™ goes beyond middleware to provide a comprehensive, structured solution for future-safe and interoperable application development. ArcStyler™ provides an excellent example of the OMG's MDA approach."

Dr. Richard Soley, Chairman
and CEO of the OMG



"Interactive Objects Software was already moving in the same direction as the OMG when MDA was announced."

Paul Harmon, Market Analyst

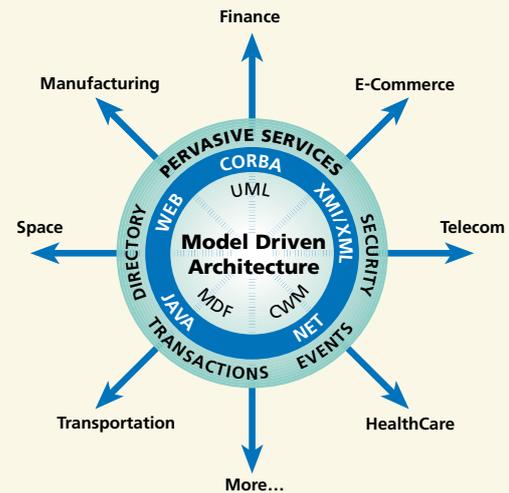


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Model Driven Architecture™ according to the OMG

The ArcStyler assists an IT Organization along the entire critical development path according to the Rational Unified Process (RUP). By default, this path is tailored to enable Convergent Engineering via MDA. Along this path, business models are created and subsequently transformed, automatically or semi automatically, into more detailed technical models while preserving the relationship to original business entities along the way. The result is a set of verifiably style-conform UML models based on clear patterns and modeling styles. Both structural and dynamic (behavioral) aspects of the business system are represented in UML/Rational Rose. In addition, several levels of models, in particularly those describing Web-access (web services) to the system, are automatically generated. All modeling results are stored in a open UML

repository enabling these results to be accessed via Java or exchanged, in both directions, with XMI compliant tools at any time. The UML model is automatically mapped via an extensible generator engine to produce an optimized set of deployable artifacts. The standard mappings include all four-tiers of a J2EE/EJB infrastructure (BEA WebLogic Server 5.1, WebSphere 4.0 or Borland BAS4.5) including the build and test environment. During this step, the ArcStyler leverages other best-of-breed tools such as ANT for the build environment, JBuilder for the code-and-test cycle, and DreamWeaver for fine-tuning the Web graphics. This incremental model-generate-test cycle can be repeated in rapid succession to keep a constant tab on both quality and progress.



MDA™ provides an open, vendor-neutral approach to the challenge of interoperability, building upon and leveraging the value of OMG's established modeling standards: Unified Modeling Language™ (UML); Meta-Object Facility™ (MOF); and Common Warehouse Meta-model™ (CWM). Platform-independent Application descriptions built using these modeling standards can be realized using any major open or proprietary platform, including CORBA®, Java, .NET, XMI™/XML, and Web-Based platforms.

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