

Model Driven Architecture (MDA)

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The **Model Driven Architecture (MDA)** is the base architecture for the OMG organization's standards starting in late 2001. Software development in the MDA starts with a Platform-Independent Model (PIM) of an application's business functionality and behavior, constructed using a modeling language based on OMG's MetaObject Facility™ (MOF™). This model remains stable as technology evolves, extending and thereby maximizing software ROI. MDA development tools, available now from many vendors, convert the PIM first to a Platform-Specific Model (PSM) and then to a working implementation on virtually any middleware platform: Web Services, XML/SOAP, EJB, C#/.Net, OMG's own CORBA®, or others. Portability and interoperability are built into the architecture. OMG's industry-standard modeling specifications support the MDA: The MOF; Unified Modeling Language™ (UML®), now at Version 2.0; the Common Warehouse Metamodel™ (CWM™); and XML Metadata Interchange™ (XMI®). OMG Task Forces organized around industries including Finance, Manufacturing, Biotechnology, Space technology, and others use the MDA to standardize facilities in their domains.

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