



Object Management Group Overview



OMG: Background

- **500+ member companies, world's largest software consortium.**
- **Founded April 1989**
- **Small staff (20 full time); no internal development. Offices in U.S.A.; partners in Germany, Japan, U.K, Australia, India.**
- **Dedicated to creating and popularizing middleware, modeling and domain standards for enterprise interoperability based on existing technology.**



Meetings, Meetings!

- **OMG Specifications are adopted at our meetings**
- **Held five times a year, at member companies' sites around the world**
- **Lasts a week and attracts hundreds of people**
- **Every subgroup meets; up to 40 simultaneous sessions on some days**
- **Dates, locations on the web at**
www.omg.org/news/schedule/upcoming.htm



Mature Adoption Process

- **RFI (Request for Information) to establish range of commercially available software.**
- **RFP (Request for Proposals) to gather explicit descriptions of available software.**
- **Letters of Intent to establish corporate direction.**
- **Submissions entered and revised.**
- **Task Force evaluation and recommendation; simultaneous Business Committee examination.**
- **Board decision based on technical and business considerations.**



Telecommunications Domain Task Force

- **The Telecoms DTF's mission is to:**
 - Issue RFIs and RFPs for technology relevant to the Telecommunications Industry;
 - Evaluate specification proposals for recommended adoption by the OMG;
 - Communicate requirements from the Telecommunications Industry to the OMG as appropriate;
 - Assist and advise the OMG regarding its relationship with Telecommunications related Standards Organizations and Consortia;
 - Promote the use of OMG technologies as solutions to the needs of the Telecommunications Industry.



Telecommunications Liaisons

- **ASC T1M1**
- **ITU-T/SG4**
- **ITU-T/SG17**
- **Parlay**
- **TMForum (TeleManagement Forum)**
- **3GPP**



Specification Availability

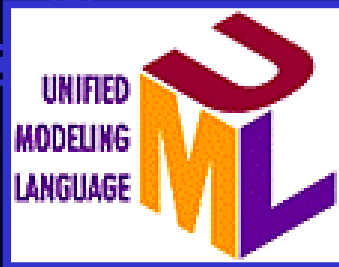
Innovative approach for selection of standard interfaces to adopt:

- 1. OMG adopts and publishes Modeling and Implementation Interface Specifications.**
- 2. Implementations must be available commercially from OMG Platform, Domain, or Contributing member.**
- 3. OMG Specifications are freely available to members and non-members alike.**
- 4. Specifications chosen from existing products in a competitive selection process.**



OMG Middleware Specifications

- **CORBA 3.1**
- **CORBA Component Model (CCM)**
- **CORBAservices**
- **IDL – Language Mappings**
 - E.g., C++, Java, XML
- **CORBA-WSDL/SOAP Interworking**
- **CORBA for Real-time and Embedded Systems**



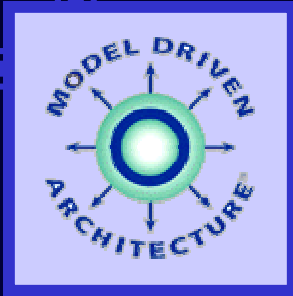
OMG Modeling Specifications

- **MOF™ : Meta-Object Facility**
 - Integrated Repository
 - Standard MetaModel
- **UML™ : Unified Modeling Language UML**
 - World Standard for A&D
 - Representation for Structure, Dynamics, Deployment
- **XMI™ : XML Metadata Interchange**
 - Model and MetaModel Interchange
 - XML-Based Format, including DTDs
- **CWM™ : Common Warehouse Metamodel**
 - Data Warehousing Integration
 - Record, Table formats; Data Loading and Transformation



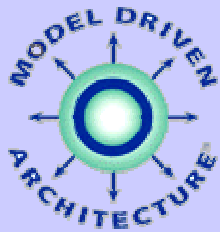
OMG Telecommunications Standards

- **Focus on:**
 - Management of networks and switches
 - Events, fault logging
 - **Published Specifications**
 - Audio/ Visual Streams
 - CORBA-TMN Systems Interworking
 - Federated Charging / Rating Facility **
 - GLOP Tunneling over Bluetooth **
 - Management of Event Domains
 - Telecoms Log Service
 - Telecoms Service and Access Subscription
 - Wireless Access and Terminal Mobility in CORBA
- ** in finalization**



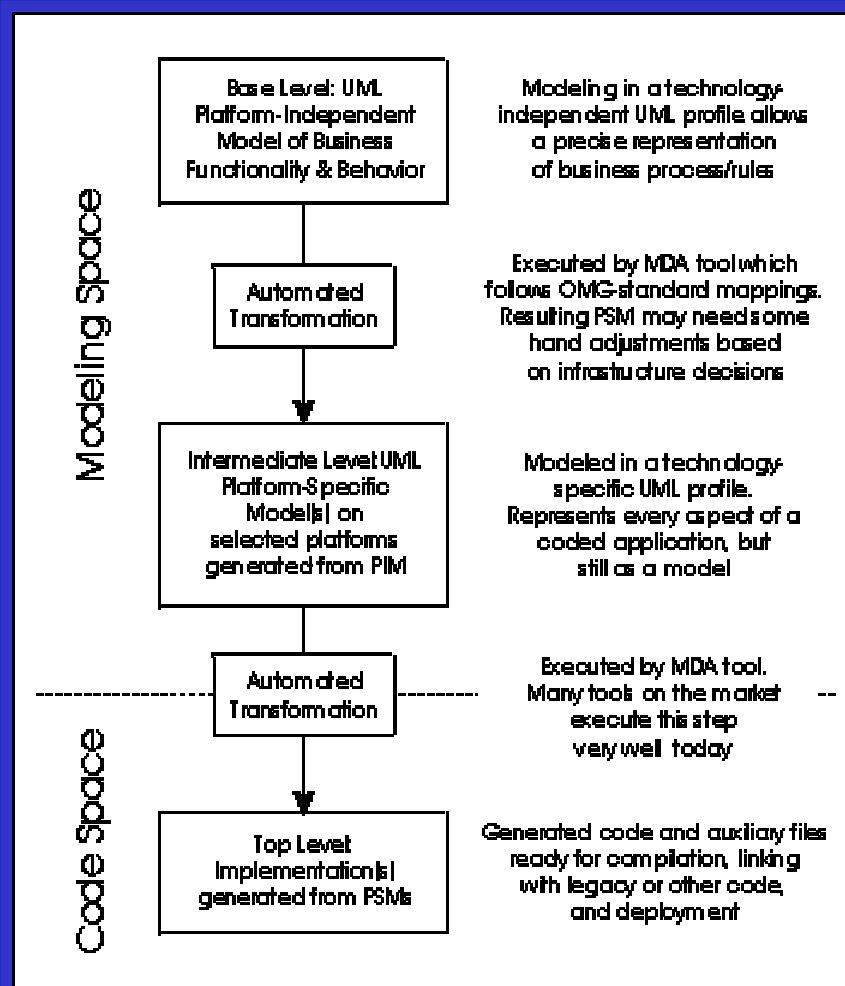
What is the Model Driven Architecture (MDA)?

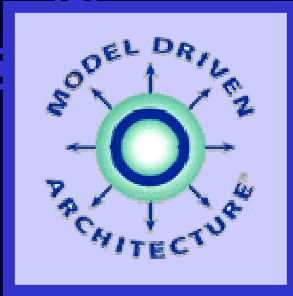
- **A New Way to Specify and Build Systems**
 - Based on modeling and UML
 - Supports full lifecycle: A&D, implementation, deployment, maintenance, and evolution
 - Builds in interoperability and portability
 - Lowers initial cost and maximizes ROI
 - Applies directly to the mix of hardware and software that you face:
 - Programming language
 - Network
 - Operating system
 - *Middleware*



MDA: Designed for Business

- Structure is a spectrum progressing from modeling at the top to code development at the bottom





MDA Benefits

- **Full support throughout the application life-cycle**
- **Reduced costs from beginning to end**
- **Reduced development time for new applications**
- **Technology-independent representation of business rules**
- **Optimized technical behavior - scalability, robustness, security – via generated code**
- **Stable, model-based approach maximizes S/W ROI**
- **Smooth integration across middleware platform boundaries**
- **Rapid inclusion of emerging technologies into existing systems**



Contact OMG

- **OMG Headquarters**
 - *Home page: <http://www.omg.org>*
 - *Email: info@omg.org*
 - *Phone: +1 781 444-0404*