Welcome to OMG!
Object Management Group (OMG) factlets:

- Founded in 1989
- 260+ member organizations worldwide
- One of the largest and longest-standing not-for-profit, open-membership consortia developing and maintaining computer industry specifications.
- Continuously evolving to remain current while retaining a position of thought leadership.
Here is a sample of some of the hundreds of organizations OMG works with:

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<td>ACORD</td>
<td>CA Technologies</td>
<td>General Dynamics</td>
<td>No Magic</td>
<td>RTI</td>
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<td>Adaptive</td>
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<td>Harris</td>
<td>Northrop Grumman</td>
<td>SAP SE</td>
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<td>DocBox</td>
<td>HPE</td>
<td>Oracle</td>
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<td>DoCoMo</td>
<td>Huawei</td>
<td>PNA Group</td>
<td>Software AG</td>
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<td>ProSTEP iViP</td>
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<td>FICO</td>
<td>Lockheed Martin</td>
<td>PTC</td>
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<td>Benchmark</td>
<td>Fraunhofer FOKUS</td>
<td>MediSked</td>
<td>PWC</td>
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<td>QualiWare</td>
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<td>Carnegie Mellon Univ.</td>
<td>GE</td>
<td>MITRE</td>
<td>Real Time Logic</td>
<td>WebRatio</td>
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Best-Known Successes

Unified Modeling Language

- UML® remains the world’s only standardized modeling language

Business Process Model and Notation

- BPMN™ provides businesses with the capability of understanding their internal business procedures

Systems Modeling Language

- SysML™ supports the specification, analysis, design, and verification and validation of a broad range of complex systems.

Data Distribution Service

- DDS™, Real-time, data-centric, publish-subscribe OMG specification for data distribution

Meta Object Facility

- MOF™, the repository standard

XML Metadata Interchange

- XMI®, the standard for interchanging models

Common Object Request Broker Architecture

- CORBA® remains the only language- and platform-neutral interoperability standard
Standards are developed using OMG’s mature, worldwide, open development process. With over 25 years of standards work, OMG’s one-organization, one-vote policy ensures that every vendor and end-user, large and small, has an effective voice in the process.
Accomplishments

- Organization Growth includes:
  - Model Driven Architecture (MDA) – OMG’s approach to Interoperability – Over 160 unique specifications completed
  - Currently, approx. 100 works in progress
- ISO/IEC JTC1 PAS & ARO - Stamp of credibility
- Create widely-accepted standards in < 18 months
- Recently approved:
  - Structured Assurance Case Metamodel 2.0 Specification
  - Automated Enhancement Points (AEP) Specification
  - Languages, Countries and Codes (LCC) Specification
  - FIBO Financial Business and Commerce (FBC) Specification
What’s Happening?

- Data Residency Working Group
- Event Metamodel/Agent Metamodel submission presentation, ADTF
- Semantic Information Modeling for Federation submission presentation, ADTF
- Technical Debt RFC discussion, ADMTF
- DDS RFC/RFP discussions, MARS PTF
- Business Architecture Metamodel RFP discussion, BMITF
- Healthcare Ordering Service Submission presentation, Healthcare DTF
- Archimate Metamodel & Profile Presentation, BMITF
- Combat Management System Navigation System Interface RFP, C4ITF
- SysML 2 RFP Working Group
- UML Testing Profile 2 RFP submission, ADTF
- SysML Profile for Safety and Reliability RFP Discussion
- Precise Semantics of UML State Machines submission, ADTF
- Operational Threat & Risk Model RFP discussion, System Assurance TF

(See specific meeting agendas for details and timings)
Value of Membership

Technical Benefits

• Network with Industry Experts
• Influence the Technology Adoption Process
• Access All OMG Documents
• Access to myOMG

Business & Marketing Benefits

• Liaise With Other Standards Bodies
• Gain Industry-Wide Recognition
• Publish your Work

• Develop Business Partnerships
• Use of OMG’s Marks
• Receive Discounts on Conference Attendance
• Secure Public Speaking Opportunities
• Demonstrate Your Company's OMG-based Technology
• Publicize Your OMG Design Wins

• Promote Your Commitment to OMG Technology
• Make use of OMG's Tutorial Package
• Promote your Training Offerings on OMG's Website
• Receive Discounts on Major Market Research Reports
• Access The OMG Presentation Library
Value of Participating

✓ Know the direction of standards before public adoption begins: be a market leader

✓ Influence the direction of standards: leadership saves time & money downstream

✓ Access to documents, presentations, white papers, design decisions before public access and completion

✓ Gain recognition for leadership by speaking, publishing & leading
OMG Managed Programs

• Multiple Organizations
• Separate Memberships
• Each managed in part by OMG staff
• Each with their own structure and goals
• NOT standards Organizations
The Industrial Internet Consortium
A nonprofit partnership of Industry, Government and Academia
• Further development, adoption and wide-spread use of interconnected machines, intelligent analytics and people at work.
• Accelerate the development and availability of intelligent industrial automation
• Utilize existing and create new industry use cases and test beds for real-world applications
• Deliver best practices, reference architectures, case studies, and standards requirements to ease deployment of connected technologies
• Influence the global development standards process for internet and industrial systems
• Facilitate open forums to share and exchange real-world ideas, practices, lessons, and insights
• Build confidence around new and innovative approaches to security.

Accomplishments Include:
• Grew from 5 founders to 240+ members
• Established productive working groups & defined deliverables

www.iiconsortium.org

The Consortium for IT Software Quality
Industry leadership group committed to measuring and improving application software quality and productivity
• IT Executives from the Global 2000, System Integrators, Outsourced Service Providers, and Software Technology Vendors
• Develops specifications for automating measures critical to software productivity and quality
• Provides forum to promote and exchange industry best practices and ideas
• Advises and educates business and government leaders on policies for mission critical application quality

Accomplishments Include:
• Led the adoption of Automated Function Point specification by OMG
• Published automatable Quality Characteristic specifications for Reliability, Performance Efficiency, Security, and Maintainability, soon to be submitted for OMG approval
• Has held multiple successful seminars on adopting best practices for measuring and managing software productivity and quality

www.it-cisq.org

Cloud Standards Customer Council
Provides cloud users with the opportunity to drive client requirements into standards development organizations and deliver materials such as best practices and use cases to assist our members.

Accomplishments Include:
• The CSCC Practical Guide to Cloud Computing
• The CSCC Practical Guide to Cloud Service Level Agreements
• Public Cloud Service Agreements: What to Expect & What to Negotiate
• Security for Cloud Computing: 10 Steps to Ensure Success
• Cloud Security Standards: What to Expect & Negotiate
• Migrating Applications to Public Cloud Services: Roadmap for Success

▷ Case studies, Use Cases, Webinars On Demand
▷ Working Groups:
• Financial Services, Government, Practical Guide, Security, XaaS, Big Data

www.cloud-council.org
Gain recognition of your competency, prove you are committed to your profession, and motivate other colleagues to enhance their skills. Become certified through OMG® and proudly display your qualifications by including the OMG Certification logo on your business cards, on your resume and online in our Certified Professionals Directory!
Email Lists – subscription open to Members

Documents (on the Process)

Tutorials, Workshops

Visit www.omg.org for:
- TC Homepages
- “Getting Started”
- Work in Progress
- Calendar of Events
- Document Retrieval
- Issues / Bug Reports
Technology Process Overview

Andrew Watson

Vice President & Technical Director

andrew@omg.org
Technology Process Overview

- Mature
- Open
- Member driven
- Fair
- Disciplined
- Does NOT produce shelfware
- Built upon best practices, not research
- Timely
- Specifications are freely available
- Technical and Business tracks
- Evolutionary, not stagnant
OMG Organization

Architecture Board
- Liaison SC
- Object & Reference Model SC
- Spec Mgmt SC
- IPR SC
- Business Architecture SIG
- Model Interchange SIG

Platform TC
- A & D PTF
- ADM PTF
- MARS PTF
- SysA PTF
- Agent PSIG
- Data Distribution PSIG
- Ontology PSIG

Domain TC
- BMI DTF
- C4I DTF
- Finance DTF
- Government Information Sharing & Services DTF
- Healthcare DTF
- Mfg. Tech & Ind. Systems DTF
- Robotics DTF
- Space DTF
- Mathematical Formalisms DSIG
- Regulatory Compliance DSIG
- Sys Eng DSIG
• **OMG adopts and publishes interface specifications**  
  - Implementation available from at least one OMG member

• **Interfaces freely available to all (members or not)**  
  - No export restrictions  
  - No specification licence, no payment  
  - Best-effort assurances on IPR constraints  
  - Interface selection via open process, now used >200 times

• **Usual adoption process centers on Request for Proposals**  
  - Requirements document  
  - Written by Task Force, vetted by AB, issued by TC  
  - OMG members may then respond with proposed specifications
• **RFP Submissions**
  
  - Specifications only, not software that implements them
  - ... but OMG will want to see evidence of commercial or OSS implementation, or actual use at end-user organization
  - Written by submitters outside OMG
  - Evaluated by Task Force
  - After 1-3 rounds of submit-evaluate-revise-resubmit, TF will vote to recommend one submission
  - AB evaluates recommended submission for architectural consistency
  - TC passes recommendation to BoD
RFP Process Flow
• Allows OMG members to submit complete specifications for “instant” adoption by OMG
• Submitters bring completed specifications to OMG
  - Is vetted by Task Force and Architecture Board to ensure it fits into OMG’s overall architecture
  - Must meet other usual criteria on structure, ownership etc.
  - Then issued for comment to entire industry – adverse comment can stop the process
Once adopted, specifications are “Finalized” by Finalization Task Force (FTF)

- Fixed slate of named member representatives
- Experts in specification and domain
- Fixed timetable to turn submission into publishable specification, cleaning up any bugs found by early users
- Draft (“Beta”) specification available to public and bug (“issue”) reports accepted from anyone
After that ...

• OMG actively maintains specifications throughout their life
  - Revision Task Force typically issues annual minor revisions

• Publicly-available Specification (PAS) liaison with ISO/IEC JTC1 allows some to be fast-tracked to full ISO/IEC standard
  - e.g. BPMN 2.0.1 is ISO/IEC 19510:2013

• Major revisions handled via new RFP or RFC
  - UML 2.x supersedes UML 1.x
  - At end of life, sunsetting procedure allows redundant specifications to be formally removed from the books
Ownership & Copyright

• Discussion and negotiation of submission content occurs, but always outside OMG
  - No anti-trust exemption

• Submitters continue to own copyright of their specifications

• OMG & its Members get licenses to duplicate submissions for evaluation
  - If spec adopted, OMG gets unlimited licence to publish specification and derivative works (e.g. new revisions)

• No confidential material may be submitted to OMG or discussed at an OMG meeting
“IPR Mode” assigned to a specification and all its later minor revisions (x.0, x.1, x.2 ...) 
- By submitting, or joining RTF/FTF, Member automatically agrees to offer all implementers licence for any essential IPR owned, on terms compatible with IPR Mode

Three modes: 
- Reasonable And Non-Discriminatory (RAND) terms 
- Royalty Free on Limited (RF-Limited) terms 
- Non-Assert covenant

All modes permit defensive suspension 
- Allows IPR mode protections to be suspended for any patent owner that sues an implementer for infringement
BD Team

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