OMG Introduction

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Chairman and CEO
Object Management Group, Inc.
OMG’s Mission

• Focused on rapidly developing markets based on open, international, rapidly-developed standards
• Develop an architecture, using appropriate technology, for modeling & distributed application integration, guaranteeing:
  – reusability of components
  – interoperability & portability
  – basis in commercially available software
• Specifications freely available
• Implementations exist
• Member-controlled not-for-profit
One Standard?

And the cost of adaptation must be low.

Never let the engineers bring out solution N+1
OMG’s Best-Known Successes

• Common Object Request Broker Architecture/DDS
  – CORBA® (and the DDS™ high-performance Publish/Subscribe model) remain the only language- and platform-neutral interoperability standards

• Unified Modeling Language
  – UML® the world’s mostly widely adopted standard modeling language

• Common Warehouse Metamodel
  – CWM™, the integration of the last two data warehousing initiatives

• Business Process Modeling Notation
  – BPMN™ widely adopted for business analysis

• Meta-Object Facility
  – MOF™, the language-defining language

• XML Metadata Interchange
  – XMI™, the XML-UML standard
OMG Business Modeling Activity

- Semantics of Business Vocabulary and Rules
  - Consistent rules at the business level
- Case Management Modeling Notation
  - For case-driven business processes
- Business Motivation Metamodel
  - Capturing business focus at the strategy level
- Business Process Modeling Notation
  - World standard for process description
- Business Process Definition Metamodel
  - Connecting BPMN to metamodelling frameworks
- Production Rule Representation
  - Low level rule descriptions
- Business Process Maturity Model
  - Consistent five-level metric for organizational maturity
Flow Notation for the Rest of Us

- BPMN 1.0 originally released by BPMI in May, 2004
- Designed for the business analyst, rather than the programmer
- Now a fully-supported, MOF-defined modeling notation
- Currently supported by more than 40 vendor tools
OMG’s Focus Areas

• Three key “infrastructure” standards foci:
  – Modeling
  – Middleware
  – Real-time & other specialized systems

• More than 20 “vertical market” foci:
  – Civil & Military Government
  – Financial Services
  – Healthcare
  – etc.

• Focused working groups
  – Business Architecture
  – Cloud Computing
  – Software Quality Initiative
Liaison Relationships

PAS Provider
Some of Our Domains

- OMG: C4I
- OMG: Government
- OMG: Finance
- OMG: Healthcare
- OMG: Business Modeling & Integration
- OMG: Space
- OMG: Systems Engineering
- OMG: Robotics
- OMG: Telecom
Some Specific Vertical Efforts

• Civil Government (http://gov.omg.org/)
  – Records Management, NIEM development, Performance Government (procurement)

• Financial Services (http://finance.omg.org/)
  – FIBO business ontology, SMART Regulation, MDMI message interoperability

• Healthcare Services (http://healthcare.omg.org)
  – HL7-integrated health records management, clinical

• Military/Emergency (http://c4i.omg.org/)
  – Situational awareness, tactical analysis, logistics

• Shared Semantics & Business processes

• BUT IT’S NOT JUST ABOUT STANDARDS
Consortium for IT Software Quality

• Evangelize and formalize software quality metrics (including security) to increase software quality in the industry

• Executive Forum with CMU/SEI & OMG oversight

• More than 600 companies to date, important new standards for measuring and reporting software quality, industry focus changing to quality of *artifacts* rather than *processes*
Cloud Council

• Help organizations transition to cloud computing, understand risks (and mitigation) as well as opportunities

• Steering Committee composed of major cloud end-user organizations

• 460+ companies to date; 900+ active individuals with well-regarded white papers on topics from cloud migration to vendor negotiation
Cloud Council: Now 460+ Members

- Provide customer-lead guidance to multiple cloud standards-defining bodies
- Establishing criteria for open standards based cloud computing
- The Customers’ Voice for Cloud Computing Standards

2011/2012 Deliverables
- Practical Guide to Cloud Computing
- Practical Guide to Cloud SLAs
- Security for Cloud Computing
- Impact of Cloud Computing on Healthcare

2013 Deliverables
- Convergence of Social, Mobile & Cloud
- Analysis of Public Cloud SLAs
- Cloud Security Standards Landscape
- Migrating Applications to Public Cloud Services

2014 Projects
- Social Business in the Cloud: Achieving Measurable Success
- Practical Guide for Big Data in the Cloud
- DevOps in the Cloud
- Updates to original Practical Guides

http://cloud-council.org/
Resources

- **Tremendous free resources:**
  - *Social Business in the Cloud: Achieving Measurable Business Results*
  - *Migrating Applications to Public Cloud Services: Roadmap for Success*
  - *Cloud Security Standards: What to Expect & What to Negotiate*
    - [http://www.cloud-council.org/security.htm](http://www.cloud-council.org/security.htm)
  - *Security for Cloud Computing: 10 Steps to Ensure Success*
    - [http://www.cloud-council.org/security.htm](http://www.cloud-council.org/security.htm)
  - *Convergence of Social, Mobile & Cloud: 7 Steps to Ensure Success*
  - *Practical Guide to Cloud Computing V1*
    - [http://www.cloud-council.org/10052011.htm](http://www.cloud-council.org/10052011.htm)
  - *Practical Guide to Cloud SLAs V1*
    - [http://www.cloud-council.org/04102012.htm](http://www.cloud-council.org/04102012.htm)
  - *Public Cloud Service Agreements: What to Expect & What to Negotiate*
    - [http://www.cloud-council.org/publiccloudSLA.pdf](http://www.cloud-council.org/publiccloudSLA.pdf)
  - *Impact of Cloud Computing on Healthcare*
    - [http://www.cloud-council.org/healthcare.htm](http://www.cloud-council.org/healthcare.htm)
OMG is....

• Nearly 25 years of adopted, implemented, worldwide standards with strong liaisons to ISO and other standards organizations
• Vertical-market focus in government, military communications, healthcare, finance, manufacturing, life sciences, ...
• Community of cloud computing adopters willing to share experiences
• Software quality, model-driven integration, certification, support for training, books, magazine articles & blogs, events...