





Using OMG Standards with TOGAF

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Enterprise Architecture needs standard practices

- Enterprise Architecture is a major practice that still needs to be generalized
- Many enterprises are defining their own Enterprise Architecture approach
 - Specific concepts, Specific notations, ...
- Historically, EA dedicated tools used proprietary notation
- Enterprises may be puzzled by the standard proliferation:
 - TOGAF, MODAF, DODAF, UPDM, CMMi, COBBIT, ITIL, UML, BPMN, BMM, SysML, ...



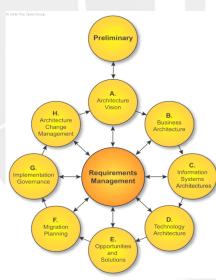
TOGAF: The most renowned solution for EA

 TOGAF: a Framework for EA which provides a comprehensive approach for designing, planning, implementation, and governance of an enterprise Information Architecture.

TOGAF is the most used Enterprise Architecture standard
 within enterprises.

within enterprises.

Why not just using TOGAF?



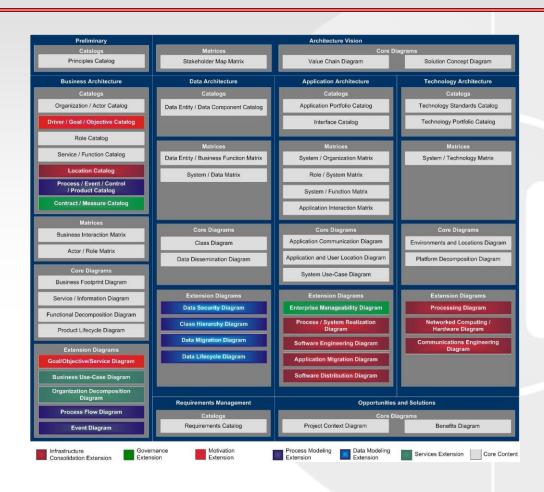
A Framework is not (quite) an off the shelf solution

- The TOGAF framework provides:
 - A terminology
 - A generic life cycle
 - Best practices
- It does not provide
 - A modeling notation
 - An EA approach adapted to your organization
- → You need to find your approach and your modeling technique for TOGAF
 - TOGAF's "preliminary phase" includes this activity



Where can OMG standards help?

- Viewpoints and artefacts defined by TOGAF
 - Diagram, Catalogs, Matrixes

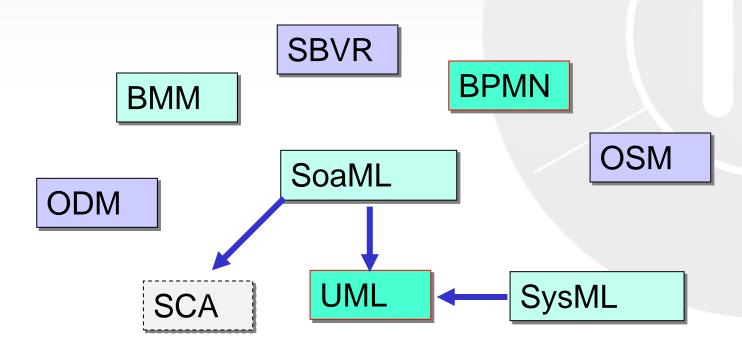


OMG standards can provide modeling support for TOGAF



Useful OMG Standards

- TOGAF does not enforce the usage of any other standard or practice
- TOGAF recommends
 - using UML and BPMN
 - Using an SOA based architecture



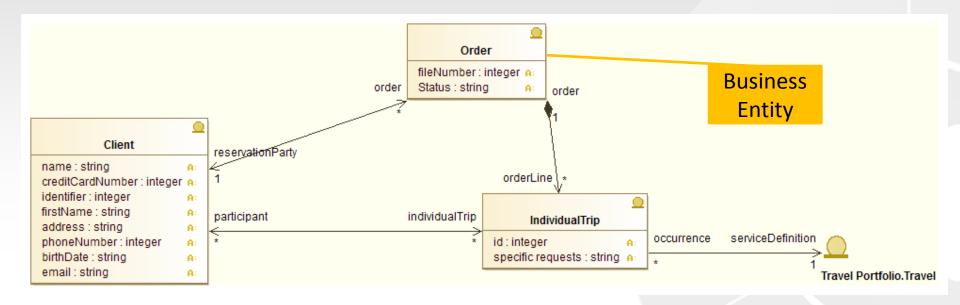


OMG Standards Contributions to supporting TOGAF

- UML: Business and system Use Cases, Data Architecture (class models, business entities), Product & entities state diagrams
- BPMN: Flow diagrams, Business process modeling
- UML/SoaML : Application Architecture
- SysML: Requirement analysis and modeling
- BMM : Vision, Goal analysis
- UML Profiles : all other modeling actifities



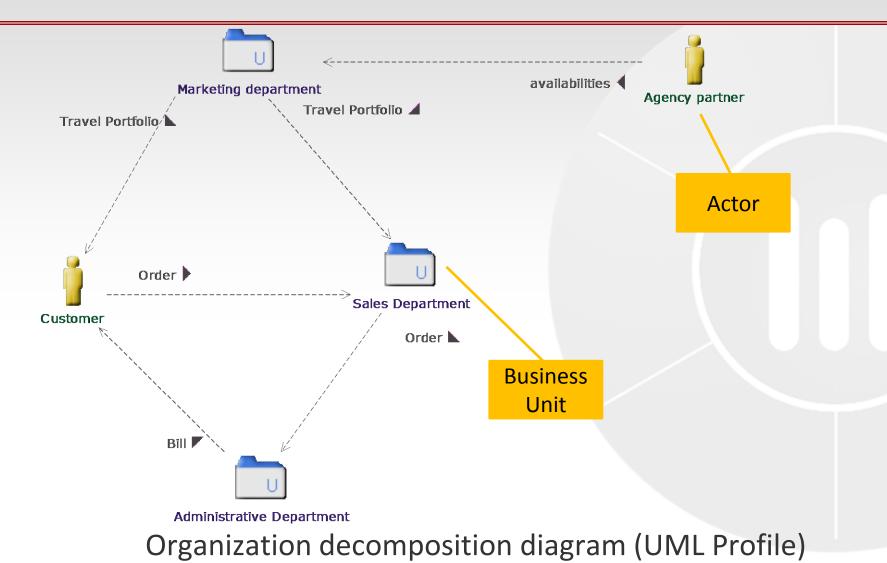
Example: Modeling Business Entities



The key purpose of the Class diagram is to depict the relationships among the critical data entities (or classes) within the enterprise.

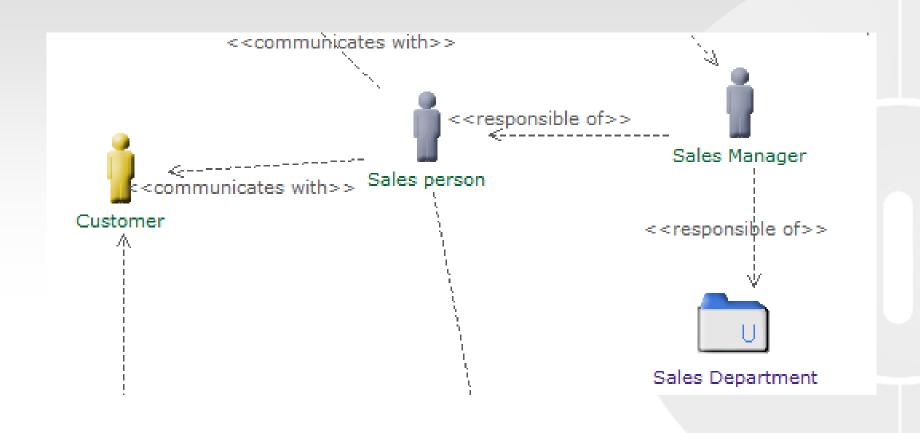


Modeling Organization





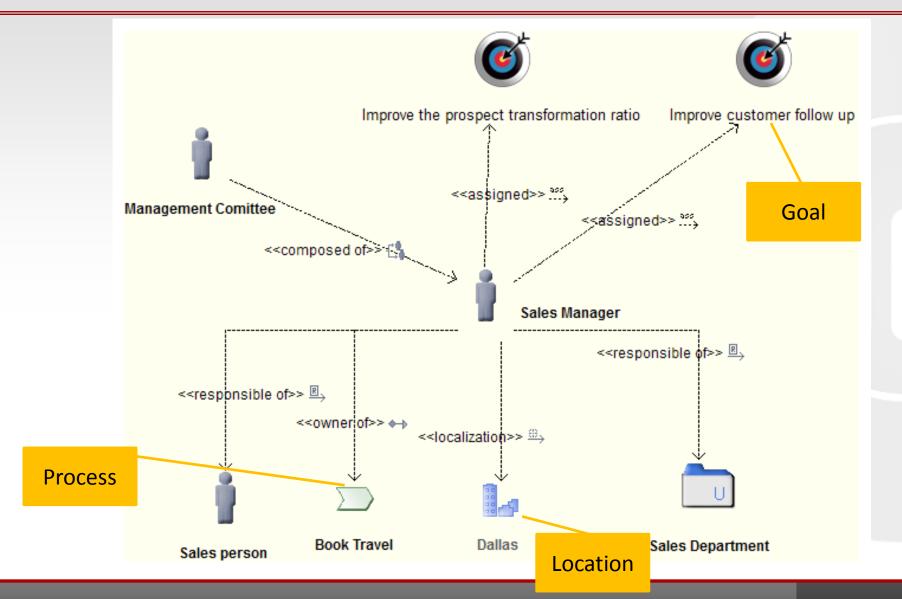
Modeling Organization (2)



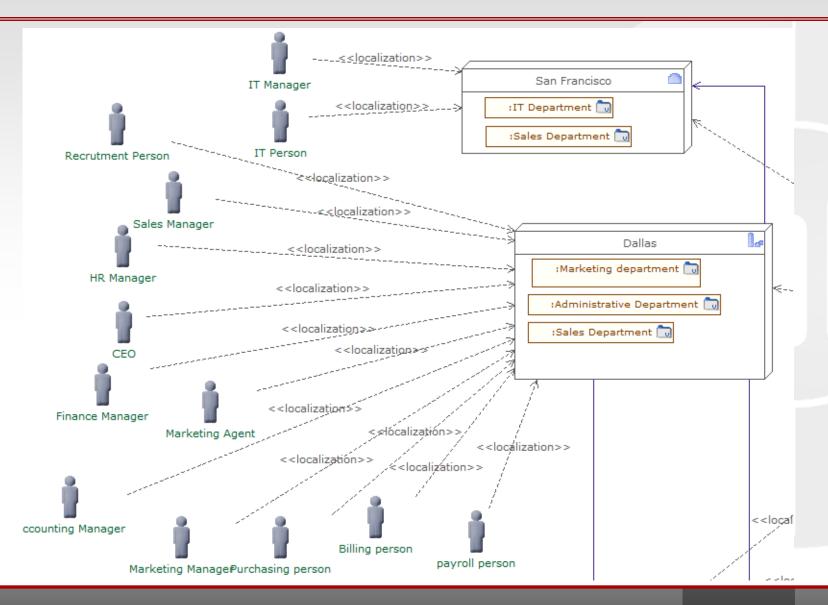
Organization role diagram



Organization modeling: Actor focus

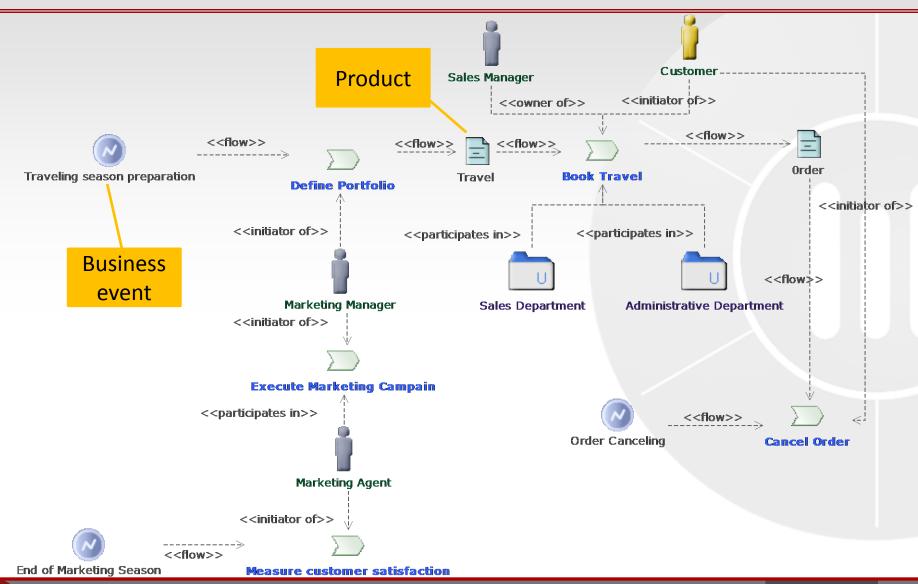


Modeling the location of roles



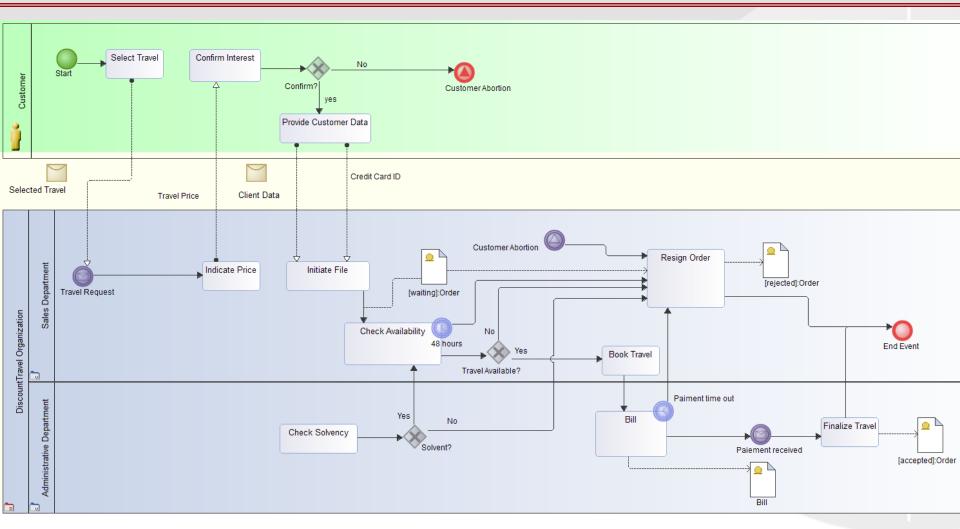


Event diagram: Process map, processes overview





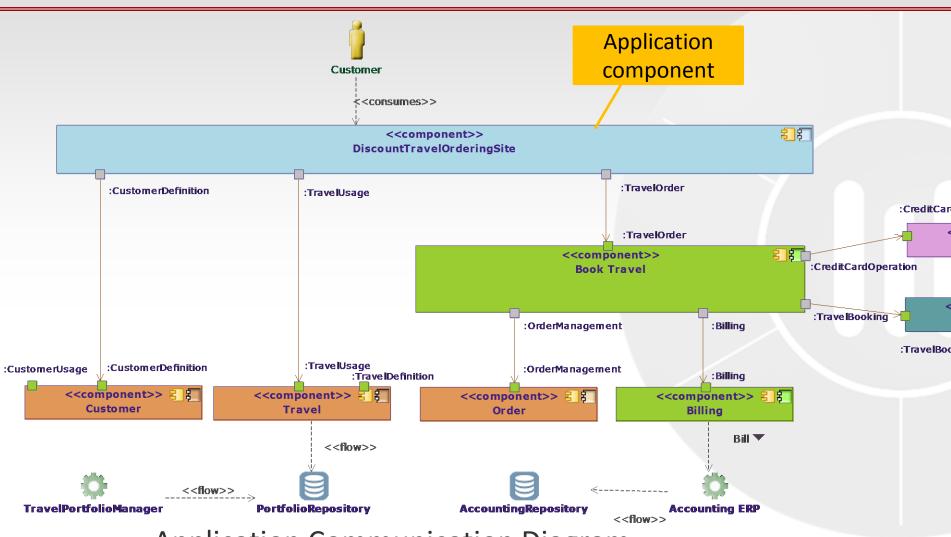
Business process modeling



BPMN integrated with UML

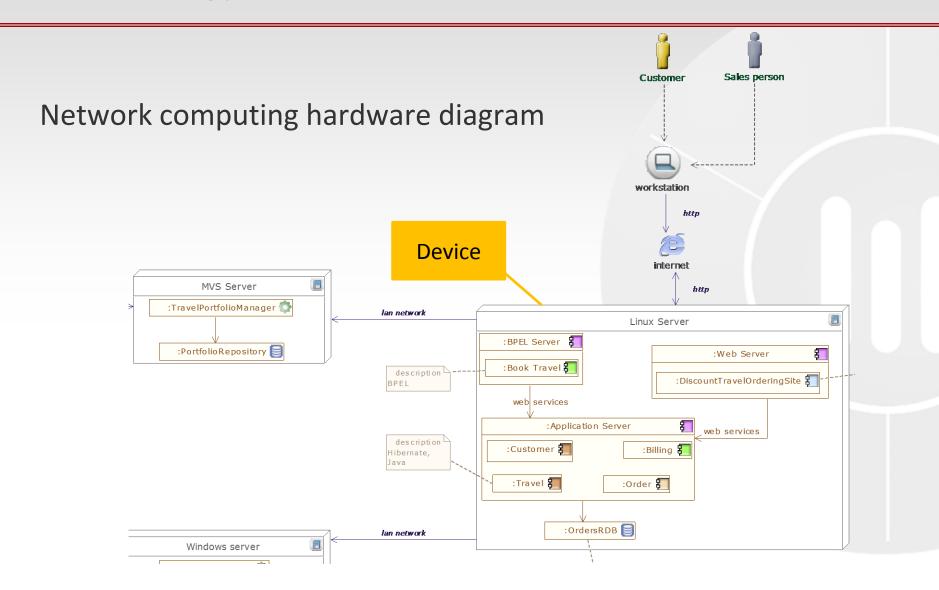


Modeling Application Architecture



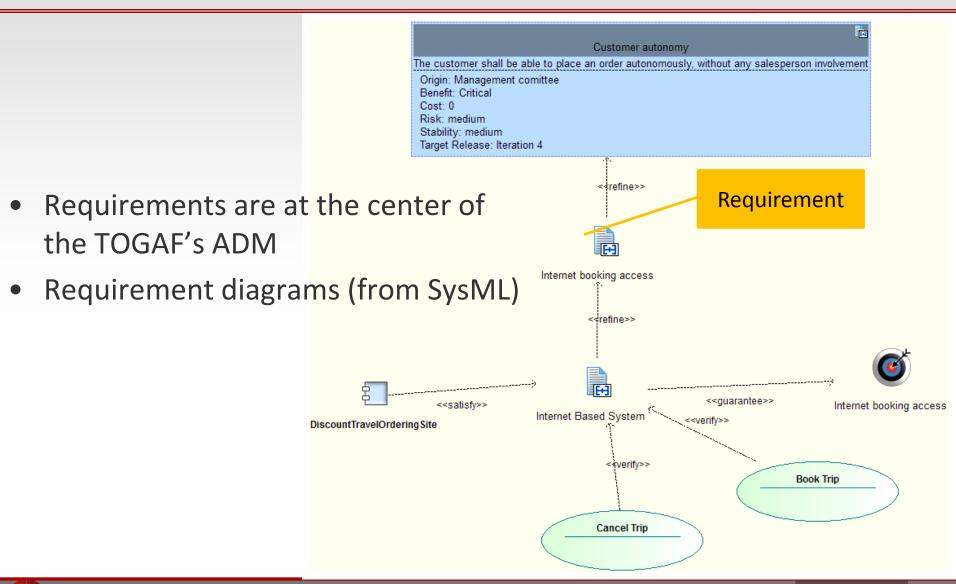


Technology Architecture



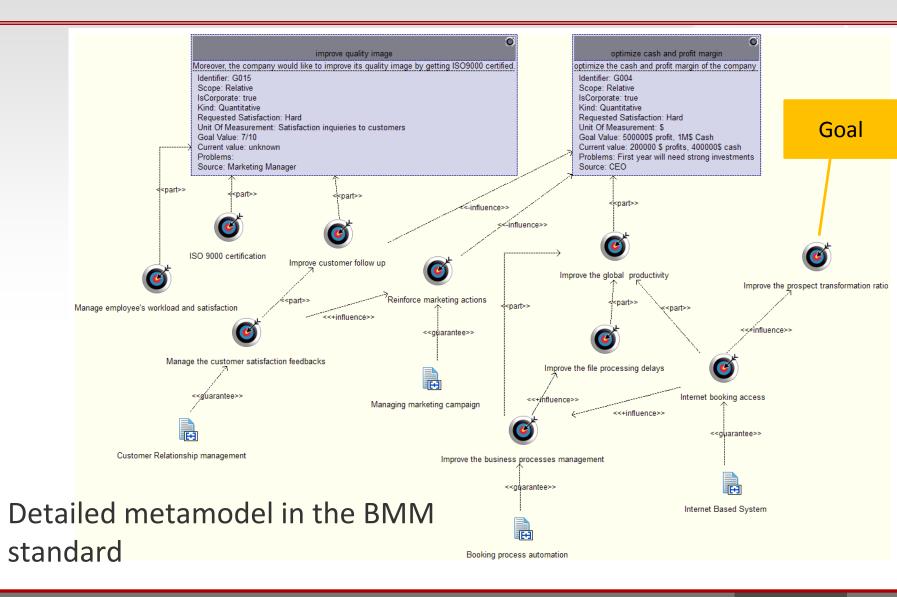


Requirement Analysis



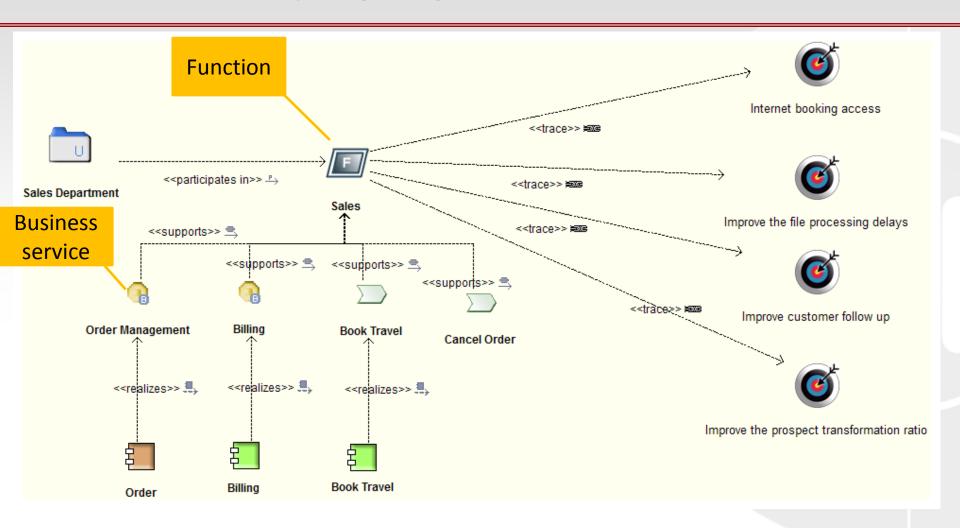


Goal Analysis





Business Footpring diagram



Gives an overview of the strategy, starting from goals



Why should we use OMG Standards to implement TOGAF?

- On the shelf solutions to built TOGAF artifacts
- Supported by several modeling tools : UML2/BPMN2
 - Powerful, and affordable
 - Extensible,
- Learning curve made easier for newcomers
- Mastered semantics of modeling languages
- Most advanced tools (Modelio) integrate Goal analysis, Glossary support and requirement analysis & modeling.



More information

- www.omg.org see the mentioned standards
- www.modeliosoft .com : download whitepapers, evaluate Modelio TOGAF Architect
- www.modelio.org : an open source edition of Modelio and TOGAF modeling support
- <u>www.togaf-modeling.com</u>: TOGAF modeling examples
- Book to be published (Q1 2012):

MISE EN PRATIQUE DE TOGAF

Modélisation de l'architecture d'entreprise.

P. Desfray – G. Raymond

(TOGAF in practice: Modeling Enterprise Architecture)

