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The Open Group Architecture Framework (TOGAF) Version 7

Agenda

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- ❑ Business Drivers for Good IT Architecture
- ❑ Background to TOGAF
- ❑ New in TOGAF Version 7
- ❑ Looking Ahead
- ❑ Summary

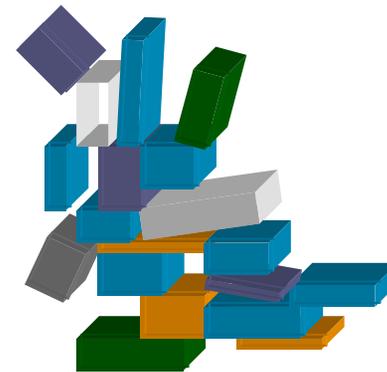
Every enterprise has an IT architecture

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**Some
are designed**

**and some
just happen**



A good IT architecture will:

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- ❑ Directly address the needs of the enterprise
- ❑ React to change at the rate dictated by the enterprise's markets
- ❑ Be understood and supported by senior management
- ❑ Clearly define the structure of the existing system
- ❑ Provide a roadmap and migration strategy for future purchases / developments
- ❑ Reduce the number and complexity of the interfaces between components, improving the ease of:
 - Application portability
 - Component upgrade
 - Component exchange
 - Component development and maintenance

Do you have a plan?

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Can a business succeed without a documented business plan?

Can I.T. succeed without a documented architecture?

- ❑ Greater ability to respond to new demands
- ❑ Greater business value from IT operations
- ❑ Greater ability to introduce new technology
- ❑ Faster, simpler and cheaper procurement
- ❑ Faster time-to-market



But where do you start?

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- ❑ There are many successful IT architectures in use
- ❑ Can you benefit from that accumulation of knowledge?
- ❑ Can you examine in detail the IT architecture of another organization?
- ❑ Do you have to reinvent the wheel?
- ❑ What reference material is available?

This is why TOGAF exists and is freely available.

TOGAF Origins and Motivations

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- A customer initiative:
 - Formal user requirement developed 1994
 - Main themes:
 - A single, unifying Architectural Framework for the IT industry
 - A framework for developing architectures to meet specific business needs
 - not a “one-size-fits-all” architecture

TOGAF Today

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- ❑ Industry consensus
- ❑ Technology- and tool-neutral
- ❑ 8 years continuous development
- ❑ Proven in practice
- ❑ Publicly available:

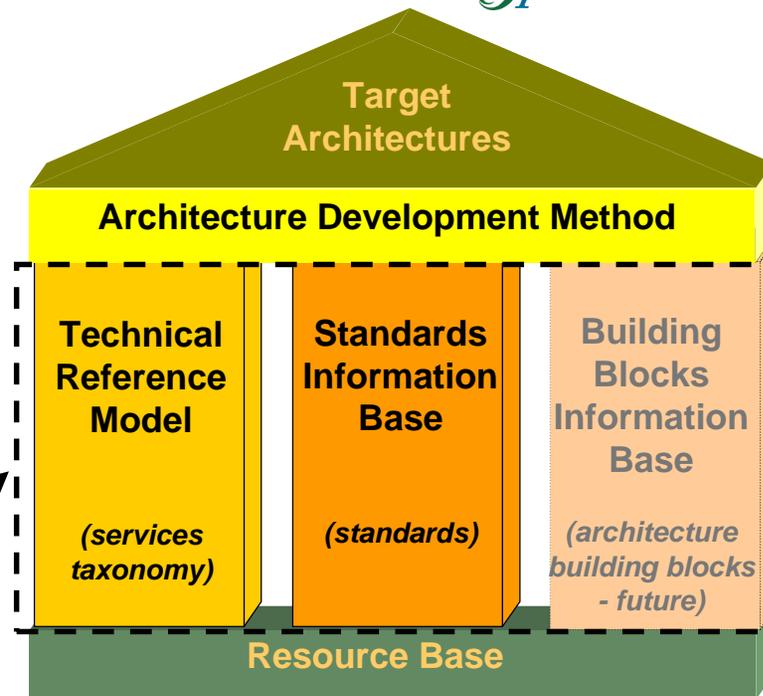
<http://www.opengroup.org/public/arch>

TOGAF Structure and Components

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- Architecture Development Method
- Foundation Architecture
- Resource Base

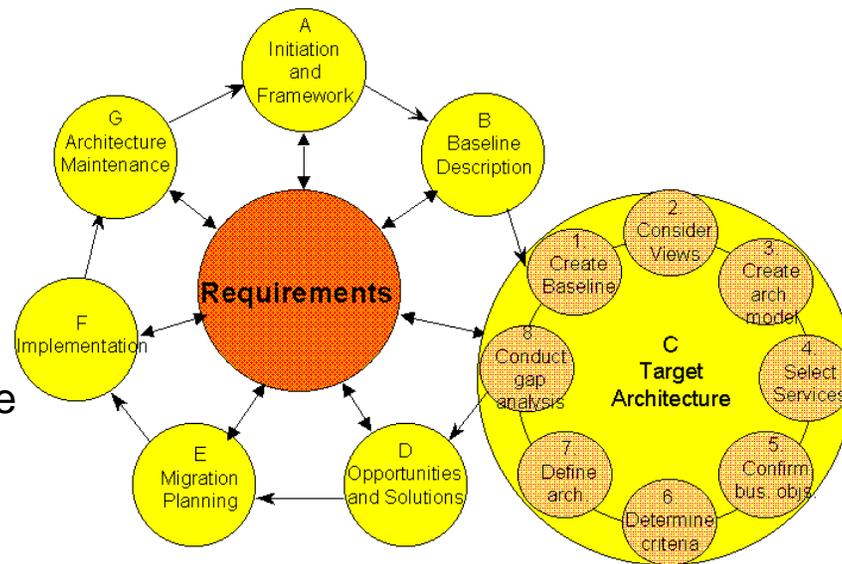
TOGAF Foundation Architecture



Architecture Development Method (ADM)

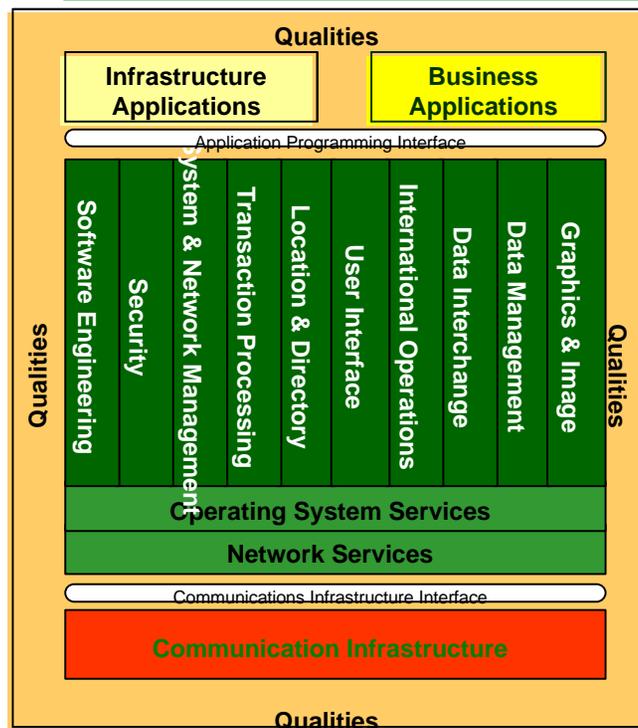
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- ❑ Open, industry consensus method for IT architecture
- ❑ Quick-start foundation
- ❑ Practical, experience based guidance
- ❑ Requires continual validation against requirements



Foundation Architecture: Technical Reference Model (TRM)

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- Associated with detailed taxonomy of **services**
 - defines scope of each service category
- Identifies system-wide capabilities (“**qualities**”), e.g.:
 - Internationalization
 - Security
 - Management

Foundation Architecture: Standards Information Base (SIB)

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- ❑ A database of open industry standards
 - The complete set of Open Group endorsed standards
 - Content determined by Open Group consensus process
- ❑ Structured according to TOGAF Technical Reference Model taxonomy
- ❑ Regularly updated
- ❑ Available for public web access
 - <http://www.db.opengroup.org/sib.htm>
- ❑ Gateway to many linked resources

Resource Base

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- Resources available in applying the TOGAF Architecture Development Method; e.g.
 - ADML
 - Architecture Compliance Reviews
 - Architecture Principles
 - Architecture Views
 - Business Scenarios (requirements method)
 - Case Studies
 - IT Governance Strategies

TOGAF Development History

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- ❑ **1994: Requirement**
 - Proof of Need
- ❑ **1995: TOGAF Version 1**
 - Proof of Concept
- ❑ **1996: TOGAF Version 2**
 - Proof of Application
- ❑ **1997: TOGAF Version 3**
 - Relevance to practical architectures (Building Blocks)
- ❑ **1998: TOGAF Version 4**
 - TOGAF in Context - the Enterprise Continuum
- ❑ **1999: TOGAF Version 5**
 - Business Scenarios - architecture requirements
- ❑ **2000: TOGAF Version 6**
 - Architecture views / IEEE 1471
 - US DoD work (C4ISR Framework, C2STA)
- ❑ **2001: TOGAF Version 7**

New in TOGAF Version 7

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- ANSI/IEEE Std 1471-2000, Recommended Practice for Architectural Description
 - Extensive rewrite of Architecture Views section, integrating ANSI/IEEE Std 1471 concepts / terminology
 - Integration with TOGAF Architecture Development Method.
- Architecture Compliance Reviews
 - Ensuring conformance with architecture in projects - new section based on Boeing work
- Architecture Patterns
 - new section based on IBM, US Treasury work
 - Distinguish from design patterns

TOGAF Version 7 (continued)

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- Architecture Principles
 - new section base on US Air Force work
- Business Executive's Guide to IT Architecture
 - update
- Business Scenarios
 - additional material based on Open Group CIO work
 - elevation in document hierarchy
- Model based representations of TOGAF Architecture Development Method and deliverables
 - joint effort of Computas and Frietuna
 - using METIS tool

TOGAF Version 7 (continued)

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- Tailoring the TOGAF Architecture Development Method
 - new guidelines
- TOGAF comparison of with other frameworks:
 - Federal Enterprise Architecture Framework (FEAF)
 - Federal Enterprise Architecture Guidance
 - Treasury Enterprise Architecture Framework (TEAF)
 - Spewak Enterprise Architecture Planning (EAP)
 - Zachman Framework
- TOGAF in the Enterprise
 - TOGAF positioning relative to enterprise architecture

The Open Group Architecture Forum

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- ❑ The forum in which TOGAF is evolved
- ❑ A worldwide forum for: customers, tool vendors, solution vendors, integrators, academic & research organizations involved with architecture
- ❑ Exchanging information, experience, and requirements
- ❑ Access to current work in progress
- ❑ Shaping the market for architecture methods, tools and services

Looking Ahead...

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- Potential 2002 projects:
 - Architect certification
 - TOGAF migration from infrastructure to enterprise framework
 - Tools support

Summary

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- ❑ Adopt and use TOGAF
 - Improved ability to respond to new business demands
 - Improved ability to introduce new technology
 - Greater business value from IT operations
 - Faster, simpler, cheaper procurement
 - Faster time-to-market
- ❑ Participate in the Architecture Forum
 - Worldwide forum for customers, tools vendors, solution vendors, integrators, academic & research organizations
 - Dialog with peers and industry experts
 - Practical information and experience
 - Access to work in progress
 - Vendor, technology, product neutral

For More Information . . .

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- ❑ Architecture Portal:
 - <http://www.opengroup.org/architecture/index.htm>
- ❑ TOGAF Documentation:
 - <http://www.opengroup.org/public/arch>
- ❑ TOGAF Information:
 - <http://www.opengroup.org/public/togaf>
- ❑ Standards Information Base (SIB):
 - <http://www.db.opengroup.org/sib.htm>

