The Emerging Role of the Enterprise Architect
The next information revolution

“So far, for 50 years, the information revolution has centered on data …

- their collection, storage, transmission, analysis, and presentation

- It has centered on the "T" in IT

- The next information revolution asks,
  
  - What is the MEANING of information, and what is its PURPOSE?”

Source: The next information revolution by Peter F. Drucker, 1999
The 5th Information Revolution?

1. Invention of writing in Mesopotamia, 5000 to 6000 years ago
2. First written book in China – around 1300 B.C.
3. Invention of the printing press – 1450 to 1455
4. Information Technology – circa 1950
Impact – by the year 1500

> 10,000 Unemployed 1,000 across Europe
Evolution from “T” to “I”

By 1580 or so

- Printers, with their focus on technology, had become ordinary craftsmen, respectable tradesmen to be sure, but definitely not of the upper class.
- Their place was soon taken by what we now call publishers (though the term wasn't coined until much later), people and firms whose focus was no longer on the "T" in IT but on the "I."

Source: The next information revolution by Peter F. Drucker, 1999
History repeating itself?

- Software development with its focus on technology, is being off-shored and outsourced.
- Their place is being taken by what we now call architects (though there remains some discussion around the definition of the term), people and firms whose focus was no longer on the “T” in IT but on the “I”.

“The IT people of the printing revolution were the early printers”, Drucker
Customer problem statement

“"I could run my business better if I could gain operational efficiencies improving

- the many different business processes of the enterprise
  - both internal, and
  - spanning the key interactions with suppliers, customers, and partners using
- integrated information, and access to that information.""
A common problem

The cause:
- multiple systems, conceived and developed individually

Compounding the problem:
- cross-functional teams continuously forming, new business partners, stove-piped information
City Planner perspective: Integrated Information Infrastructure

Source: City of Burnsville
An issue of national importance

- Japan
  - Information technology Promotion Agency

<table>
<thead>
<tr>
<th>Biz Strategy</th>
<th>Strategic IT/IS planning</th>
<th>Development</th>
<th>Operation/Maintenance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dev. biz goal / vision</td>
<td>Issues/Req. Analysis (Biz/IT)</td>
<td>Solution design (architecture)</td>
<td>Components design (System/Biz)</td>
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<td>Project managers</td>
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<tr>
<td>Enterprise Architecture</td>
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</tbody>
</table>
A New Blueprint For The Enterprise
By Christopher Koch

Enterprise architecture is not just about mapping and standardizing hardware and software anymore. Now it's about services, events and-get this-good old ROI.

Wanted: Enterprise Architects
By Ben Worthen

IT has grown so big that the CIO can't handle it all. To ensure that IT is always aligned with the business, you need an enterprise architect.
How to Get Started

BY CHRISTOPHER KOCH

Some standard templates can jump-start your thinking about enterprise architecture. But don't expect them to provide all the answers. "Frameworks are the filing cabinet you put the architecture documents into," says Bruce Robertson, vice president of enterprise planning and architectures for research company Meta.

♦ One of the most popular—and free—frameworks is the Open Group Architecture Framework (Togaf).

www.opengroup.org/architecture/
Demand for information

- TOGAF™ 8
  - >15,000 downloads
  - >2,000 certified practitioners
- >125 corporate members of The Open Group Architecture Forum
- Since publication in October 2005
  - >1,000 TOGAF 8 books shipped
Member (End User) Driven

- Customer members demand architecture standards …
  - Customer members select TAFIM as preferred starting point…
  - DoD Information Systems Agency (DISA) donate TAFIM as base
- TOGAF first published
- TOGAF 7 – Technical Edition
- TOGAF 8 Enterprise Edition
- The Interoperable Enterprise Business Scenario first published

First TOGAF Certification Program Launched
Supporting industry integration

1. Zachman Framework
2. Federal Enterprise Architecture Framework
3. TOGAF
4. TOGAF ADM (Architecture Development Method)
5. Other Frameworks

Support or Guidance
Certification/Professionalism

- The breaking down of barriers within and between enterprises demands a city planner perspective of the enterprise architecture.
- Enterprises need assurance that the staff or service providers they hire have the skills and experience necessary to address the complexities of enterprise architecture.
- Professional enterprise architects need a recognized, portable and professional grade qualification:
  - TOGAF™ Architecture Development Method provides an important toolset.
  - ITAC certifies Architects that meet the global open standard developed by members of The Open Group for skills and experience in the field.
## Architect Certification

### Positioning

<table>
<thead>
<tr>
<th></th>
<th>Knowledge</th>
<th>Experience</th>
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<tbody>
<tr>
<td>Industry Best Practice</td>
<td>TOGAF</td>
<td>IT Architect</td>
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<tr>
<td>Commercial Solutions</td>
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</table>
Looking for your next IT job?
Submit your CV for over 1600 UK recruiters to view
Register your CV free

Managing Consultant - Business Technology
Strategy £100,000+ Total Package
Job Type: Permanent
Salary: £100,000 + Total package
Location: UK
Posted: 26/04/2006 11:43:59

Technical Architect - Reuse - Yorkshire
Job Type: Permanent
Salary: £50k
Location: West Yorkshire

Technical Solutions Architect - Defence / Government
Job Type: Permanent
Salary: 160000 per annum + car + bonus benefits
Location: South East
Posted: 24/04/2006 16:40:13

Enterprise Architect - Leeds
Job Type: Permanent
Salary: £55k
Location: South East

The Open Group Architecture Framework (TOGAF)

<table>
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<tr>
<th>Rank</th>
<th>3 Months to 26 April 2006</th>
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<td>94</td>
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Processes & Methodologies

TOGAF Average Salaries

IT Jobs - IT Contracts - TOGAF - CWjobs.co.uk - ITJobsWatch.com
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<td>As % of All Permanent Job Ads Sampled</td>
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<td>Salaries Quoted</td>
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<tr>
<td>Average Minimum Salary</td>
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### Processes & Methodologies

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<td>£49,034</td>
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Source: ITJobsWatch

(C) The Open Group 2007
Introduction to ITAC

IT Architect Certification
What is ITAC?

- IT Architect Certification
  - Certification of skills and experience
- Vendor neutral
  - Developed by consensus
- Global
  - The same standard worldwide
- Portable
  - Will be recognized by all employers
Evolution of ITAC

- Members of The Open Group:
  - Organizations shared common IT Architect profession certification programs
  - Similar objectives from one organization to the next
  - Different criteria, processes and certification titles
  - Recognized value of standardizing certification criteria as a basis for promoting architecture profession

- IT Architect credentialing did not lend itself well to traditional professional certification methods:
  - Examinations
  - Practical Exams
  - Tied to corporate consulting strategies
How it works

- One set of Conformance Requirements defining the skills and experience that an IT Architect must possess to achieve certification
- Individual architects may apply for certification directly to The Open Group
  - Certification Board will review all applications
    - Board will interview applicants
- Companies may apply to have their internal staff development / certification programs Accredited by The Open Group
  - Architects certified through an Accredited program become Open Group certified
ITAC Program

– Certification Levels & Disciplines

Level 3  Distinguished Certified IT Architect

Master Certified IT Architect
(Formally IT Architect Certification)

Level 1  Certified IT Architect

Application Architecture
Enterprise Architecture
Information Architecture
Infrastructure Architecture
Others…

Program Levels

Disciplines

Note: Discipline names and definition are evolving
Why is an industry IT Architect certification essential?

Our industry understands the increased importance of IT Architects and of quality control of their practice

- Increasing acceptance, adoption, development … and convergence in the industry on the definition of an IT Architect

- Strong interest in an industry certification program for IT Architects

- Organizations such as the Japanese government are establishing standards for certifying professional IT Architects based on recognizing skills and experience

- And yet … until now, there have been NO external industry certifications for IT Architects
ITAC has significant value for many constituents

- For end user organizations:
  - A mark of assurance when contracting architecture services
  - A professional level qualification when hiring staff

- For vendor organizations:
  - Provides assurance to customers of the skills of their IT Architects
  - Avoids the cost of an in-house certification program
  - Reduces the training cost of new IT Architects

- For IT Architects:
  - Elevates the practice and quality control of IT architecture in the industry and the professionals who perform it
  - Provides an industry credential
  - Recognition for practitioners
Early adopters

- Certified IT Architects
  - >500 - as of June 5th, 2006
  - >1,450 - as of October 13th, 2006
  - Nearly 2000 – as of February 6, 2007
- Enterprises with Certified IT Architects:
  - Bearingpoint
  - Credit Suisse
  - EDS
  - GTECH Corporation
  - Intel
  - IBM
  - Microsoft
  - New Zealand Inland Revenue
  - QR Systems
Endorsements

- **Deutsche Post**
  "The IT Architecture Certification program is very helpful to Deutsche Post World Net. Due to the international nature of our business, we need clear standards that define how we work together uniformly whilst being spread over four locations worldwide. The Open Group has given us these clear standards saving us the work of defining our own, proprietary set. Due to these global standards we can now cooperate more efficiently and can define more exact criteria for recruiting new Architects.\"  **Robert Leaman, Head of Architecture & Technology Consulting at Deutsche Post**

- **ScottishPower**
  "We are looking to the IT Architect Certification program to form a key component in the continuous professional development of our IT architects. It will allow us to demonstrate that our IT architects meet a recognized open standard. We hope that this will provide benefits for both ScottishPower and our employees.\"  **Brian Arbuckle, Technology Standards Manager, ScottishPower**

[http://www.opengroup.org/itac/endorsements.html](http://www.opengroup.org/itac/endorsements.html)
Endorsements

- **Lufthansa Transport**
  "The IT Architect Certification program equips us with an internationally recognized qualification that demonstrates that our architecture skills and experience have been independently assessed and verified against a worldwide standard benchmark"  
  *Antonio Mastolorito, Chief IT-Architect, Lufthansa Cargo, Frankfurt*

- **HP**
  "Certification is important for any profession and it's something that IT Architects have lacked on an industry-wide basis. Certification provides a comfort feeling for those who want to engage an architect, an indication that the architect is skilled in their profession and understands how to go about solving IT problems in a consistent and reliable manner. Certification further means that standards will be maintained, best practices developed, and the rogue architects who give themselves the title without any grounding in IT architecture concepts and principles will gradually be eliminated from the industry. All in all, certification for IT architects is long overdue and HP is proud to support The Open Group in their initiative to introduce and develop this important program."  
  *Tony Redmond, VP and CTO, HP Services* 

Introducing The Association (AOGEA)

- AOGEA is focused on:
  - Elevating the profession
  - Promoting the employment of certified professionals
  - Establishing standards of ethics
  - Developing generally accepted architecture principles
  - Sharing experiences and knowledge
- By launch, The Association had over 730 Enterprise Architects enrolled as active members
Welcome to www.aogea.org
The Benefits of AOGEA Membership

- Enhances careers of its members through:
  - Promoting the value of The Association to employers
  - Knowledge sharing and networking within the community

- The AOGEA also offers professional development and career advancement opportunities via participation in:
  - Workgroups and message boards
  - The AOGEA speaker’s bureau
  - Global conferences and seminars
  - Local chapters
  - Special interest groups
  - Job boards and resume postings
Why The Open Group?

- World’s leading consortium for EA spanning both IT and business architecture skills
- 20-year history of facilitating consensus on standards
- Premier provider of certification services in IT
  - Standards body and certification authority for the IT Architecture Certification program (ITAC)
  - Standards body and certification authority for TOGAF, which includes world’s leading architecture development method
- Home to Architecture Forum, which oversees TOGAF
- Host of well-known “Enterprise Architecture Practitioners Conferences” held around the globe
Summary: Key issues

- The breaking down of barriers within and between enterprises demands a city planner perspective of the enterprise architecture
- Enterprises need assurance that the staff or service providers they hire have the skills and experience necessary to address the complexities of enterprise architecture
- Professional enterprise architects need a recognized, portable and professional grade qualification