

TOGAF™ Certification

THE *Open* GROUP

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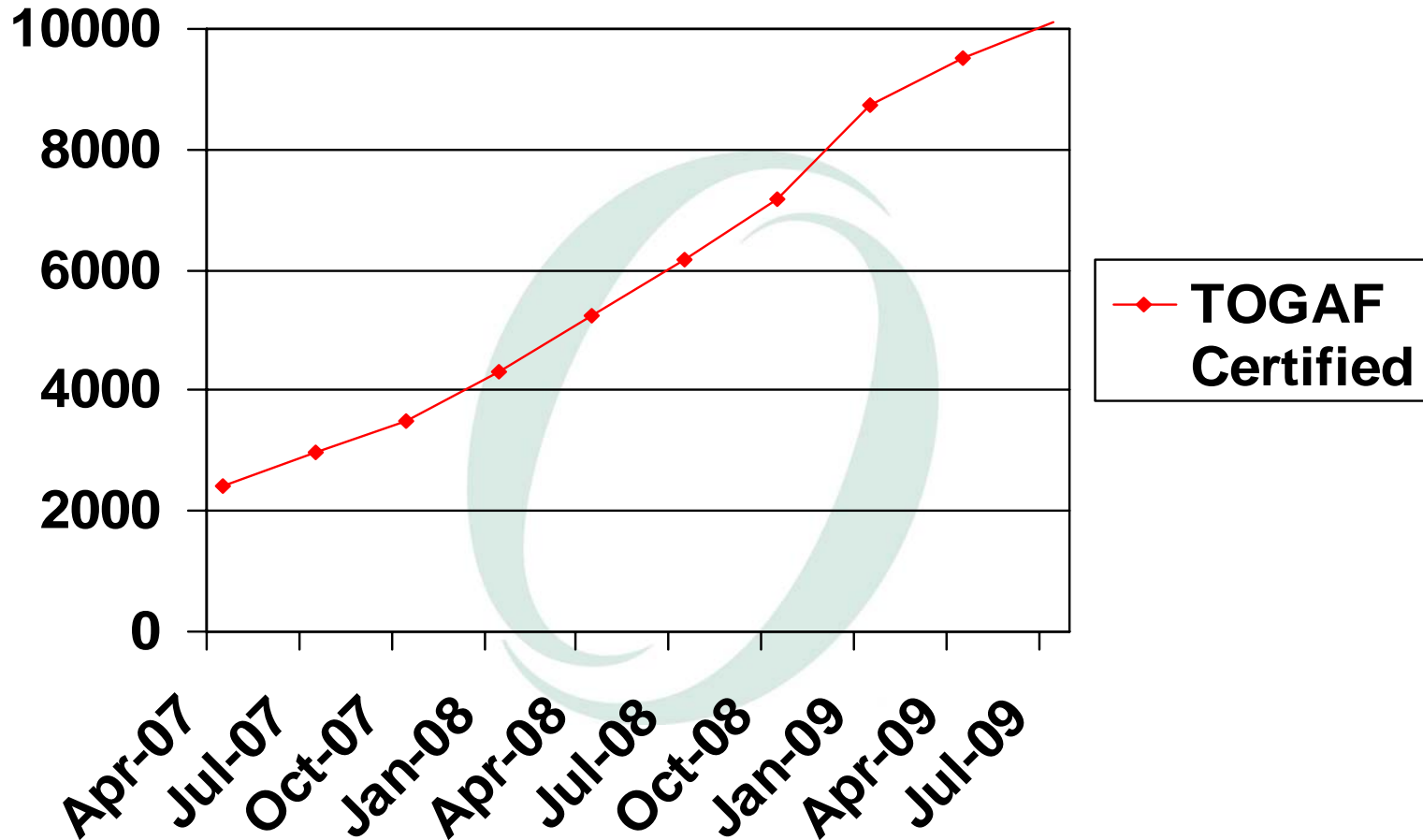
Status July 2009

Data as of
July 2009

TOGAF 8 Certified	10,100 Registered Individuals
TOGAF 8 Training	38 Products from 33 Companies
TOGAF 8 Professional Services	10 Services from 10 Companies
TOGAF 8 Tool Support	10 Services from 10 Companies
TOGAF 9 Level 1 (Foundation)	24 Registered Individuals
TOGAF 9 Level 2 (Certified)	224 Registered Individuals
TOGAF 9 Training	11 Products from 9 Companies

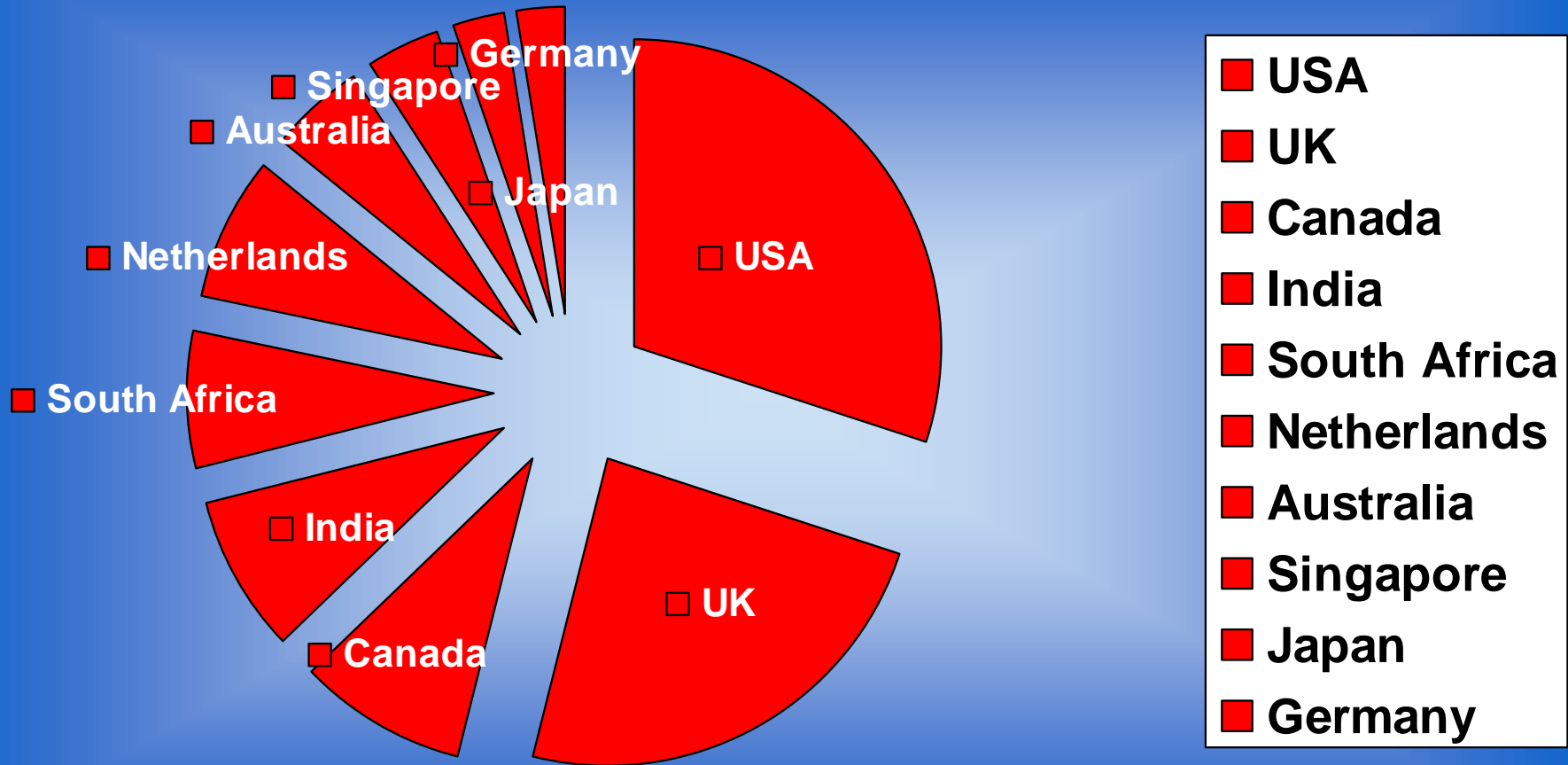
TOGAF Certified Growth

Data as of
July 2009



Certifications by Country (Top 10)

Data as of
July 2009



*Via Training

Paths to Certification

TOGAF 8

- ❑ Via Course Completion
- ❑ Via Prometric™ Exam

TOGAF 9

- ❑ Via Exam Only



TOGAF 9 Certification for People

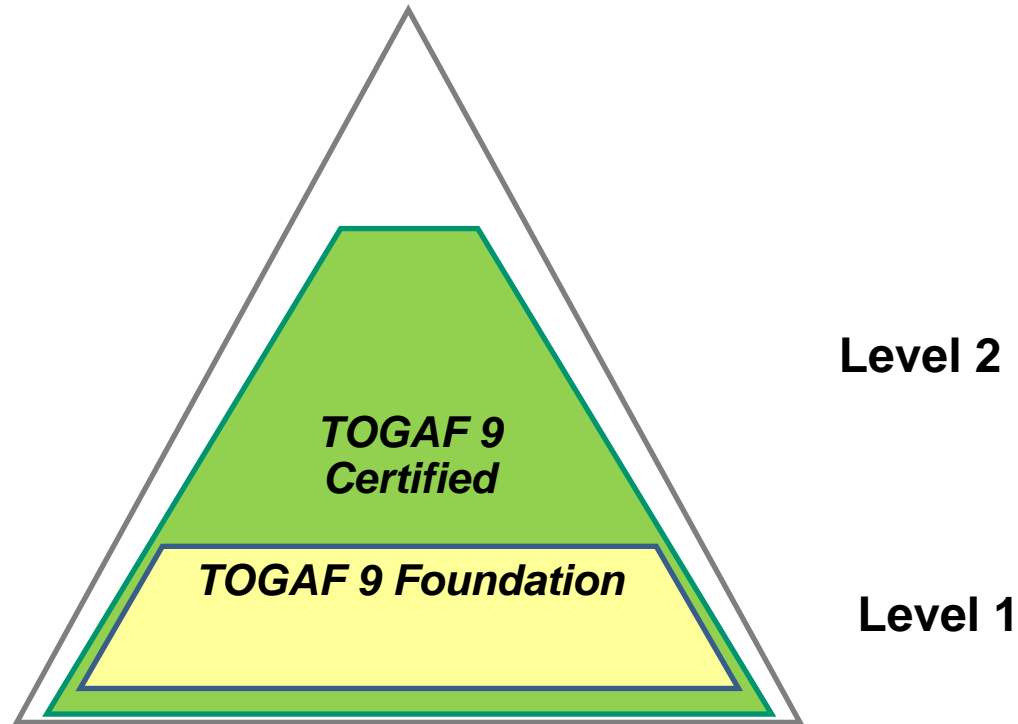


Characteristics:

- ❑ Multi-Level
- ❑ Exam-based



TOGAF 9 Certification Levels



Level 2 is a superset of Level 1

TOGAF 9 Certification Levels

Level		Purpose
1	<i>TOGAF 9 Foundation</i>	To provide validation that the candidate has gained <i>knowledge</i> of the terminology and basic concepts of TOGAF 9 and understands the core principles of Enterprise Architecture and TOGAF
2	<i>TOGAF 9 Certified</i>	To provide validation that in addition to knowledge and comprehension, the candidate is able to <i>analyze</i> and <i>apply</i> knowledge of TOGAF

Level 1 – TOGAF 9 Foundation

Target Audience

- Any individual
 - wanting a basic understanding of TOGAF 9
- Professionals and managers
 - working in roles associated with an architecture project
 - for example - planning, execution, development, delivery and operation
- Architects
 - looking for a first introduction to TOGAF 9
 - wanting to achieve Level 2 certification in a stepwise approach.

Level 2 – TOGAF 9 Certified

Target Audience

- Architects
 - responsible for developing architecture artifacts
 - wishing to introduce TOGAF 9 into an architecture practice
 - wanting want to achieve a recognized qualification to demonstrate their detailed knowledge of TOGAF 9
- Any individual
 - wanting a deeper understanding of TOGAF 9
- Professionals and managers
 - working in an organization where TOGAF 9 has been adopted, who need to participate in architecture projects/initiatives

Level 1– *TOGAF 9 Foundation* Learning Units

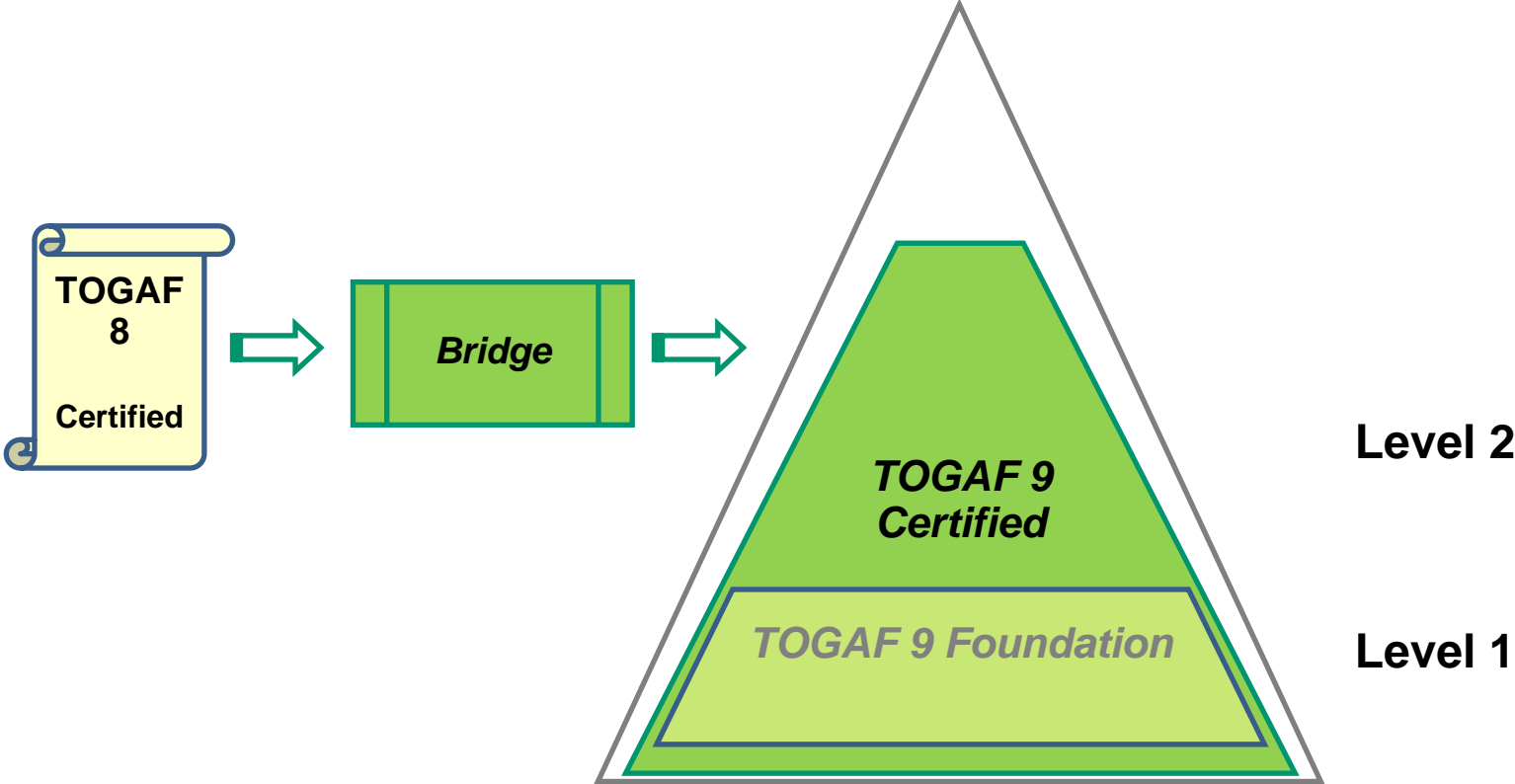
- ❑ Basic Concepts
- ❑ Core Concepts
- ❑ General Definitions
- ❑ Introduction to the ADM
- ❑ Enterprise Continuum and Tools
- ❑ ADM Phases (Level 1)
- ❑ ADM Guidelines and Techniques
- ❑ Architecture Governance (Level 1)
- ❑ Architecture Views, Viewpoints and Stakeholders
- ❑ Building Blocks
- ❑ ADM Deliverables (Level 1)
- ❑ TOGAF Reference Models (Level 1)
- ❑ TOGAF Certification Program

Level 2 – TOGAF 9 Certified Learning Units

Level 1 Units, PLUS:

- ❑ Preliminary Phase
- ❑ Architecture Governance (Level 2)
- ❑ Business Scenarios Technique
- ❑ Phase A: Architecture Vision
- ❑ Architecture Content Framework
- ❑ Stakeholder Management
- ❑ TOGAF Content Metamodel
- ❑ Architecture Implementation Support Techniques
- ❑ Phase B: Business Architecture
- ❑ Phase C: Information Systems Architectures – Data Architecture
- ❑ Phase C: Information Systems Architectures – Application Architecture
- ❑ TOGAF Foundation Architecture: The TRM (Level 2)
- ❑ The Integrated Information Infrastructure Reference Model (Level 2)
- ❑ Phase D: Technology Architecture
- ❑ Migration Planning Techniques
- ❑ Phase E: Opportunities & Solutions
- ❑ Phase F: Migration Planning
- ❑ Phase G: Implementation Governance
- ❑ Phase H: Architecture Change Management
- ❑ ADM Architecture Requirements Management
- ❑ Architecture Partitioning
- ❑ The Architecture Repository
- ❑ Guidelines for Adapting the ADM: Iteration and Levels
- ❑ Guidelines for Adapting the ADM: Security
- ❑ Guidelines for Adapting the ADM: SOA
- ❑ Architecture Maturity Models
- ❑ Architecture Skills Framework

Migration Path from TOGAF 8



Components

Level		Requirements
1	<i>TOGAF 9 Foundation</i>	13 Learning Units
2	<i>TOGAF 9 Certified</i>	13 Learning Units (from Foundation) <i>Plus</i> 27 Learning Units <i>Plus</i> 1 Migration Unit (<i>if bridging from TOGAF 8 Certified</i>)

TOGAF 9 Examinations

- ❑ TOGAF 9 Part 1
- ❑ TOGAF 9 Part 2
- ❑ TOGAF 8 to 9 Advanced Bridge



TOGAF 9 Part 1 Examination

Reference	Requirements
OG0-091	Exam Type: Multiple Choice 40 Questions / 60 minutes Supervised: Yes Open Book: No

TOGAF 9 Part 2 Examination

Reference	Requirements
OG0-092	Exam Type: Complex Multiple Choice Scenario-based 8 Questions / 90 minutes Supervised: Yes Open Book: Yes

TOGAF 8 – 9 Advanced Bridge Examination

Reference	Requirements
OG0-09AB	<p>Exam Type: A single exam with Multiple Choice knowledge-based questions and Complex Multiple Choice Scenario-based questions</p> <p>20+8 Questions / 120 minutes</p> <p>Supervised: Yes</p> <p>Open Book: Yes</p>

Addressing International Markets

- ❑ Initially the examinations are available in English
- ❑ ESL versions of the examinations allow 50% more time and use of a dictionary
- ❑ Translations to other languages are planned
 - Japanese
 - Chinese
 - Others

Further Information

- Information sheets and detailed syllabus information is available at the TOGAF 9 Certification web site
 - <http://www.opengroup.org/togaf9/cert/>

TOGAF 9 Certification for People

Questions?

Skills and Experience based Certifications for IT Professionals

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Why certify?

- For organisations, certifications:
 - Provide a **quality assurance** that certified staff have mastered the skills and have the experience required to do their jobs
 - Represent **valuable credentials** to search for in prospective employees, and can help retain top performers when offered as an incentive
 - Offer a **competitive advantage** when staff are certified to a recognised industry standard

- For IT professionals, certifications:
 - Demonstrate a **level of competency** to both employers and clients
 - Ensure **skills and knowledge are current** and can be applied to their job
 - Represent a well-recognized and respected IT credential that enhances their **marketability** and **career prospects**

What are ITAC and ITSC?

- ❑ IT Architect Certification (ITAC)
 - Designed to validate the existence of those qualities and skills in a professional that enable the effective practice of IT architecture.

- ❑ IT Specialist Certification (ITSC)
 - Designed to validate the existence of those qualities and skills in a professional that enable the effective development, implementation and operation of IT solutions.

- ❑ They are certification programs that require no training courses or examinations and focus purely on the skills and experience that an IT professional has developed while working on relevant IT projects.

Timelines

- ❑ Submission of a detailed joint proposal to The Open Group by IBM and HP for ITAC in Oct 04
- ❑ Development of core documents by ITAC working group
 - Capgemini, CLARS, EDS, HP, IBM
- ❑ Program Launched in July 05
 - Level 2 - Master Certified IT Architect
- ❑ Level 1 (Certified IT Architect) released Jan 06
- ❑ Level 3 (Distinguished Certified IT Architect) released in Mar 08
- ❑ ITSC program launched in Jan 08
 - Level 1 – Certified IT Specialist
 - Level 2 - Master Certified IT Specialist

How it works for ITAC and ITSC

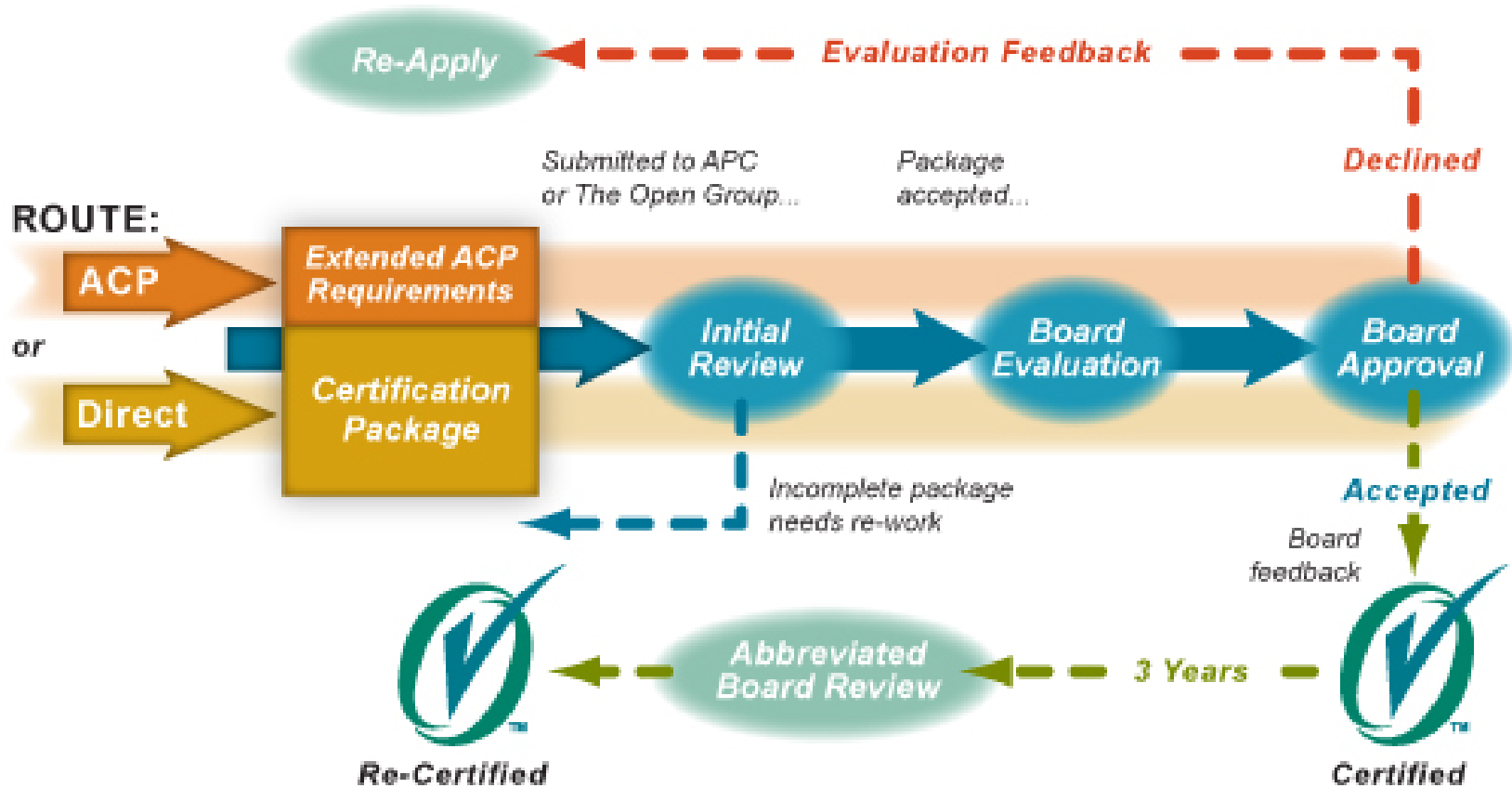
- ❑ One set of Conformance Requirements defining the skills and experience that an IT professional must possess to achieve certification

- ❑ New **ITAC Self Assessment Tool** developed by CLARS is now available for Level 1 and Level 2
www.opengroup.org/bookstore/catalog/x095.htm
www.aogea.org/resources/itac.jsp

- ❑ Individuals 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
 - Individuals who are certified through an Accredited program become Open Group certified

How it works



ITSC Requirements

- **Core Foundation Skills** – you must be able to demonstrate that you have skills in **all** of the following areas:
 - **People** - Written and verbal communication, negotiation skills, problem analysis and resolution, mentoring and team leadership.
 - **Business** - Understand business aspects and providing input to winning bids
 - **Project Management** - Set technical direction, manage an IT project plan, develop solutions and personal contribution
 - **Architecture** - Understand interface to architecture
 - **Technique** - Develop re-use mindset

An IT Specialist works in one or more of these areas

Client Focus

Services

Deliver internal or external services and implementations

Sales

Support sales of products, services or solutions

Support

Support operation and maintenance of products services or solutions

Training

Develop and deliver training courses

Technical Focus

Business Analysis
Applications Development
Packaged Application Implementation
Data Integration
Infrastructure Design
Testing

Infrastructure and Application Management
Systems and Hardware products
Storage Systems
Networking Systems
Servers
Cross Systems
Software
Application Development Products
Application and Integration Middleware
Data Management
Content Management
Portal and Collaboration

ITSC Requirements

□ Experience

- Work - A minimum of 5 years experience in IT with relevant experience in the last 3 years.
- Professional Development - Training in Project Management and technical area. Knowledge of industry trends.
- Community Contribution - Contributions made to the profession. e.g. mentoring, published articles, teaching, sitting on certification boards

ITSC Program

– Certification Levels

Master Certified IT Specialist



Can perform independently and take responsibility for delivery of systems and solutions as lead specialist

Certified IT Specialist



Can perform with assistance/supervision, with a wide range of appropriate skills, as a contributing specialist



ITAC Requirements

- **The program is made up of four parts:**
 - **Core Foundation Skills**
 - People, project management, business and architecture
 - **Experience**
 - E.g. For Level 2 at least 3 years in producing IT architectures and in the experience profiles describe 3 projects undertaken in the last 8 years and 1 in the last 3 years
 - **Professional Development**
 - Training, knowledge of industry trends, vertical markets
 - **Contributions to the Architect Community**
 - Mentoring, published articles, teaching, sitting on certification boards

ITAC – 3 Levels of Certification

Distinguished Certified IT Architect



Has significant impact on the business as: Chief/Lead Architect, Enterprise Architect or IT Architect Profession Leader

Master Certified IT Architect



Can perform independently and take responsibility for delivery of systems and solutions as lead architect

Certified IT Architect



Can perform with assistance/supervision, with a wide range of appropriate skills, as a contributing architect

What differentiates ITAC and ITSC from other credentials?

- ❑ **Skills and experience based:**
 - They go beyond validating a specific knowledge base to ensure that individuals possess and exhibit characteristics commensurate with professional criteria based on best practices.
- ❑ **Peer-reviewed:**
 - A review board comprised of certified IT Architects or IT Specialists ensures that the skills and experience of each candidate meet the rigorous qualification standards.
- ❑ **Vendor-neutral:**
 - Developed by a consortium of globally-recognized industry leaders and administered by The Open Group - a vendor-neutral organization.
- ❑ **Global:**
 - These programs adhere to a worldwide set of standards.
- ❑ **Portable:**
 - Certification applies to the individual not the organization and is therefore fully transferable

ITAC Program Momentum:

2512 people certified, working at 80 companies including:-

- Accenture
- ACORD Corporation
- Adnovate BV
- AIG
- Armstrong Process Group
- ASC
- AT&T
- BK Larsson Consulting Ltd
- CA Inc.
- Capgemini UK
- Carlson Companies
- CGI Group Inc.
- Cisco Systems, Inc
- Cloud Howe Ltd
- Codecentric GmbH
- Computacenter
- Credit Suisse
- Criterion Systems Inc.
- CSC Computer Sciences Corporation
- Datamail
- Dell Corporation
- Deloitte & Touche
- Deloitte Consulting
- Dept of the Interior
- Deutsche Post AG
- Direct Energy
- Education Finance Partners
- Enterprise IT Architecture, Inc.
- First Canadian Title
- FirstGroup plc
- Fortis
- Ganz
- GTECH Corporation
- Gulf Business Machines
- HP
- HSBC Technologies, Inc
- IBM
- Infoprint
- Inland Revenue (NZ)
- IntegrityOne Partners
- Intel
- ITSC Bonn
- Juniper Networks
- Mavs Technology Solutions
- Microsoft
- Ministry of Telecomm
- MITRE
- Nokia Siemens Networks
- OPTimus Solutions
- Process Intelligence, Inc.
- QR Systems Inc
- Raytheon
- Riosoft Consulting
- Scotiabank
- Shell
- Sinclair Knight Merz
- Unisys
- University of Toronto
- Wipro

Industry view

“We will continue our active involvement in the ongoing development of TOGAF and the IT Architect Certification (ITAC) program. ITAC, in our view, is tomorrow’s standard architecture certification, akin to what PMI is for the program management community today”

Sascha Kuhlman

Global Lead, Enterprise Architecture Program, SAP

Employer view

“Credit Suisse's IT division is required to provide high-quality, innovative and cost-efficient technology solutions to our integrated global bank. In order to achieve our goals, it is critical that we attract and retain the best IT professionals in the market.

By following industry best practices, The Open Group has defined an outstanding benchmark for IT Architects and IT Specialists, which makes it easier to identify the highly skilled and experienced professionals that Credit Suisse is looking for. In addition, I am very much in favour of The Open Group's efforts to certify skills and experience, rather than academic qualifications only.”

Andreas Buzzi, Head of Software Engineering, Credit Suisse

The IT Architect Certification (ITAC) program

In a recent article on www.Infoworld.com by Tom Kaneshige from IDG entitled “[Hot tech certifications in a cool job market](#)” The Open Group ITAC program is identified as one of the leading certification programs in the IT industry.

The article points to a Foote report of 22,000 IT professionals covering 170 IT certifications and it suggests that in terms of pay growth ITAC is **one of the top five must have certifications.**

Who is involved with the ITSC program?

- ❑ **IBM** have over 1000 employees in the program
- ❑ **Capgemini** signed an ACP agreement in January 09 and plan to put an initial 1000 people through the program.
- ❑ Marketing objective – to create demand through awareness campaigns and have references to both ITAC and ITSC appear in recruitment advertising and in Requests for Proposals (RFPs).
 - The ITAC program has previously been requested in **RFPs** for companies such as **Shell, General Motors** and various **government agencies**.

Summary

- ❑ Skills and experience based certification is in strong demand because
 - It distinguishes those individuals with the skills and expertise needed to develop IT architectures and deliver solutions
- ❑ ITAC certification is in strong demand because
 - Demand is being created in the marketplace for ITAC references in both RFPs and recruitment advertising. Companies such as **Logica, CA, Shell, Tesco** and **Direct Energy** have recently advertised for job roles that included a reference to ITAC. (see also the many job postings on www.aogea.org)
- ❑ ITSC certification is growing in demand because
 - Both **IBM** and **Capgemini** are putting significant numbers of their staff through the program
- ❑ Further information can be found at:
<http://www.opengroup.org/certification>



Thank you.