Open Group Guide

The Open Group Certified Architect (Open CA) Program Skill Mappings to the Skills Framework for the Information Age (SFIA)





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ISBN: 1-937218-25-6

Document Number: G132

Published by The Open Group, March 2013.

Comments relating to the material contained in this document may be submitted to:

The Open Group, Apex Plaza, Forbury Road, Reading, Berkshire, RG1 1AX, United Kingdom or by electronic mail to:

ogspecs@opengroup.org

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Preface

The Open Group

The Open Group is a global consortium that enables the achievement of business objectives through IT standards. With more than 400 member organizations, The Open Group has a diverse membership that spans all sectors of the IT community – customers, systems and solutions suppliers, tool vendors, integrators, and consultants, as well as academics and researchers – to:

- Capture, understand, and address current and emerging requirements, and establish policies and share best practices
- Facilitate interoperability, develop consensus, and evolve and integrate specifications and open source technologies
- Offer a comprehensive set of services to enhance the operational efficiency of consortia
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This Document

This document is a Guide to The Open Group Certified Architect (Open CA) program skill mappings to the Skills Framework for the Information Age (SFIA).

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Referenced Documents

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The following document is referenced in this Guide:

• Open CA: Conformance Requirements (Multi-Level), X110, published by The Open Group; refer to: www.opengroup.org/bookstore/catalog/x110.htm.

1 Introduction

1.1 Open CA and SFIA

The Skills Framework for the Information Age (SFIA) is a framework for describing the skills of information systems professionals. SFIA is used to unite a wide variety of other systems in the recruitment, development, training, and reward of Information Systems (IS) staff throughout the world (see www.sfia.org.uk).

In developing the Open CA program, SFIA has been used as an underlying structure to help with the organization of the Open CA Conformance Requirements and as a resource to help in their validation.

Open CA and SFIA differ in their approaches:

- SFIA identifies a comprehensive set of categories of skill that are needed in the IS domain, and describes the skills in these categories at several different levels. Individuals assessing themselves against SFIA are likely to find that they meet the SFIA criteria in several different categories, and organizations using SFIA to define the skills required for a particular role may need to select skills from more than one SFIA category.
- The Open CA program identifies a number of different areas of work that need to be performed by IT Architects, and defines the detailed skills and experience requirements that would be expected of people who have successfully performed in those roles.

1.2 The Purpose of this Document

The purpose of this document is to indicate mappings between Open CA skills and SFIA skills. It is not the intention to provide all the requirements for the Open CA program; comprehensive documentation describing the Open CA Conformance Requirements is available from The Open Group website (www.opengroup.org).

1.3 Our Approach to Mapping

In mapping SFIA skills to the Open CA skills, rather than include pre-requisite or supporting skills, the authors have focused on mapping skills where it is clear that the key attributes described for one match the attributes of the other skill. Including skills that are considered pre-requisite or support the Open CA program skill or skills that might be associated for any other reason would produce a list that would be over-long and render this document impractical to use.

Also, when mapping the Open CA skills and SFIA skills, careful consideration has been given to the context of each skill; the Focus Areas and Streams in Open CA, and the generic as well as skill-specific levels in SFIA. Clearly there are cases where the mapping may span two or three levels in SFIA and this has been indicated when it is the case.

1.4 How to Use this Document

This document explains the relationship between Open CA skills and SFIA skills. The document comprises two sections:

- 1. Open CA program skills
- 2. Open CA program skills and SFIA skill(s) with suggested level mapping

The intended workflow is to step through from the first section to the mappings using the Open CA program links to find the SFIA mappings in which you are interested.

1.5 Workflow Example

The first section of this document displays Open CA program skills in a table.

To see Open CA/SFIA mappings for a skill, choose a skill link. (The Category name is also linked.)

			Limited	General	Applied	Deep	Expert
Core Foundation Skills for Levels 1 and 2 Reference							
People	Apply Communication Skills	CFS01			1	2	
	Lead Individuals & Teams	CFS02			1	2	
	Perform Conflict Resolution	CFS03			1	2	

An Open CA skill is displayed with mapped SFIA skills, which are considered closely related. The SFIA Skill, Code, and Suggested Levels are displayed.

				Suggested SFIA Level(s)									
Core Foundation Skills for Levels 1 and 2	SFIA Skill	Code	1	2	3	4	5	6	7				
Given an architectural question, use and apply various techniques – such as data collection, data analysis, hypothesis, and	Business Analysis	BUAN											
	Business Modeling	BSMO											

SFIA Levels range from Level 1 to 7. The purpose of this document is to provide a specific mapping for Open CA and SFIA skills. This is shown with the fill color. In this example screenshot, an Open CA skill is mapped to an SFIA skill (Business Analysis) at Levels 5 to 6.

2 Open CA Program Skills

			Limited	General	Applied	Deep	Expert
Core Foundation Ski	ills for Levels 1 and 2	Reference	<u> </u>	<u> </u>	Ap	De	Ex
People	Apply Communication Skills	CFS01			1	2	
	Lead Individuals & Teams	CFS02			1	2	
	Perform Conflict Resolution	CFS03			1	2	
Project Management	Manage Architectural Elements of an IT Project Plan	CFS04			1	2	
Business	Understand Business Aspects	CFS05			1	2	
Architecture	Develop IT Architecture	CFS06			1	2	
	Use Modeling Techniques	CFS07			1	2	
	Perform Technical Solution Assessments	CFS08			1	2	
	Apply IT Standards	CFS09			1	2	
	Establish Technical Vision	CFS10			1	2	
	Use of Techniques	CFS11			1	2	
	Apply Methods	CFS12			1	2	
	Define Solution to Functional and Non-Functional Requirements	CFS13			1	2	
	Manage Stakeholder Requirements	CFS14			1	2	
	Establish Architectural Decisions	CFS15			1	2	
	Validate Conformance of the Solution to the Architecture	CFS16			1	2	
	Perform as Technology Advisor	CFS17			1	2	

3 Open CA Program Skills and SFIA Skills

			Suggested SFIA Level(s))
Core Foundation Skills for Levels 1 and 2	SFIA Skill	Code	1	2	3	4	5	6	7
People				,					
Apply Communication Skills	No Mapping								
Demonstrate good written communications, including the use of proper grammar, spelling, document organization, clarity, and use of content appropriate for the audience. Demonstrate good verbal communications, including strong eye contact (where culturally appropriate), responsiveness to questions, ability to stay on subject, use of good feedback, and follow-up questions, etc., so that effective two-way communications is demonstrated.									
Lead Individuals and Teams Given a scope of architectural work to be	Solution Architecture	ARCH							
accomplished, plan the work, form a team to perform the work, and guide the team in performing the work to completion.	Project Management	PRMG							
performing the work to completion.	IT Management	ITMG							
Perform Conflict Resolution	No Mapping								
Mediate opposing viewpoints and negotiate equitable solutions to ensure successful and stable outcomes.									
Project Management									
Manage Architectural Elements of an IT Project Plan	Business Risk Management	BURM							
Given a project plan, identify those elements of the plan that put the integrity of the architectural elements at risk and manage	Project Management	PRMG							
those elements through to the agreement by the client/project manager that the project has been successfully completed.	Business Analysis	BUAN							
ocen successiumy completed.	Change Management	CHMG							

			\$	Suggested SFIA Level(s)					
Core Foundation Skills for Levels 1 and 2	SFIA Skill	Code	1	2	3	4	5	6	7
Business									
Understand Business Aspects Understand the stakeholders' business needs	Consultancy	CNSL							
and how they relate to their business and mission.	Enterprise and Business Architecture Development	STPL							
	Business Analysis	BUAN							
	Requirements Definition and Management	REQM							
	Stakeholder Relationship Management	RLMT							
Architecture									
Develop IT Architecture Given one or more business requirements, create the structures of a solution that can be	Enterprise and Business Architecture Development	STPL							
validated to meet those requirements.	Solution Architecture	ARCH							
Use Modeling Techniques Use modeling techniques – such as use-case, scenario modeling, prototyping,	Enterprise and Business Architecture Development	STPL							
benchmarking, and performance modeling – to describe the problem space, to size the solution, and to validate that the proposed	Solution Architecture	ARCH							
architecture addresses the business requirements.	Business Analysis	BUAN							
	Business Modeling	BSMO							
Perform Technical Solution Assessments Given a technical solution and the underlying	Business Risk Management	BURM							
business requirements that drove its development, assess the technical integrity and risks inherent in that solution in such a	Business Process Testing	BPTS							
way that the recommendations and findings are appropriate and implementable.	Systems Design	DESN							
	Conformance Review	CORE							

			Suggested SFIA Level(s					vel(s)
Core Foundation Skills for Levels 1 and 2	SFIA Skill	Code	1	2	3	4	5	6	7
	Technology Audit	TAUD							
Apply IT Standards Given project requirements that call for or	IT Governance	GOVN							
would benefit from the use of standards, establish, implement, and enforce appropriate standards in the creation and implementation	Solution Architecture	ARCH							
of the solution to meet those requirements.	Methods and Tools	METL							
	Systems Development Management	DLMG							
	Quality Standards	QUST							
Establish Technical Vision Given requirements and a list of	Consultancy	CNSL							
stakeholders, identify approaches, tools, techniques, and technologies to meet the requirements, and explain the present and	Business Process Improvement	BPRE							
future rationale so that stakeholders accept the choices and agree with the rationale.	Enterprise and Business Architecture Development	STPL							
	Emerging Technology Monitoring	EMRG							
	Solution Architecture	ARCH							
	Stakeholder Relationship Management	RLMT							
Use of Techniques	Business Analysis	BUAN							
Given an architectural question, use and apply various techniques – such as data collection, data analysis, hypothesis, and solution formulation – to produce a supportable answer to the question.	Business Modeling	BSMO							
Apply Methods	Solution Architecture	ARCH							
Given a work effort, adapt, apply, and enforce the use of a method that meets the method recognition criteria in Section 6 of	Methods and Tools	METL							

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			;	Sugg	ested	SFL	A Le	vel(s))
Core Foundation Skills for Levels 1 and 2	SFIA Skill	Code	1	2	3	4	5	6	7
the Conformance Requirements to successfully create architectural work products that meet the requirements of the work effort. Demonstrated ability to follow a recognized method ensures repeatability of delivery and success. Candidates are not required to have used more than one recognized method.									
Define Solution to Functional and Non- Functional Requirements	Solution Architecture	ARCH							
Given the functional and non-functional requirements, define a solution that meets the stated requirements using the Organization's	Methods and Tools	METL							
and industry standard procedures and tools.	Systems Design	DESN							
Manage Stakeholder Requirements	Solution Architecture	ARCH							
Given approved business goals, objectives, and constraints, document, clarify, refine, detail, and prioritize functional and nonfunctional requirements.	Requirements Definition and Management	REQM							
Establish Architectural Decisions Determine, document, and communicate architectural decisions to support and	Enterprise and Business Architecture Development	STPL							
rationalize the design of the solution.	Solution Architecture	ARCH							
Validate Conformance of the Solution to the Architecture	Business Process Testing	BPTS							
Given a set of requirements, define and execute strategies and plans for ensuring and demonstrating that the solution satisfies the documented architecture.	Change Implementation Planning and Management	CIPM							
	Conformance Review	CORE							
Perform as Technology Advisor Maintain IT industry knowledge to advise on	Consultancy	CNSL							
technical trends and techniques and apply them to the development of solution designs.	Technical Specialism	ТЕСН							
	Innovation	INOV							
	Emerging Technology Monitoring	EMRG							