

ArchiMate[®] Tool Certification

Conformance Requirements

Version 2.0

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ArchiMate® Tool Certification: Conformance Requirements, Version 2.0

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1. BACKGROUND

1.1 Introduction

The Open Group ArchiMate Tool Certification Program (the Program) makes certification available to tools supporting ArchiMate. The goal of the Program is to ensure that architecture artifacts created with a certified tool are conformant to the language, in order to avoid dilution of the standard. The Program supports the international distribution of ArchiMate.

Architecture modeling tools that support the ArchiMate language can be submitted for the Program. The certification process assesses whether the tool implements the ArchiMate language correctly.

The Program is based on two documents:

1. The *Certification Policy*, which sets out the policies and processes by which a tool can be certified.
2. The *Conformance Requirements* (this document), which documents the requirements a tool must meet to achieve certification. This document also recommends a set of optional capabilities for consideration by tool designers.

1.2 Terminology and Definitions

This table defines terms or clarifies the meaning of words used within this document. Where an acronym is also used, it is provided in parentheses.

ArchiMate	ArchiMate Version 2.0 (ArchiMate V2.0)
ArchiMate Specification	The ArchiMate Specification, Version 2.0
Trademark License Agreement (TMLA)	The agreement between the Certified Person and The Open Group that contains the legal commitment by the Candidate to the terms and conditions of the Program and for use of the Program Logo.

1.3 Levels of Certification

Currently, only one level of tool certification is defined (ArchiMate Certified).

1.4 Migration

Not applicable.

1.5 Program Logo

Those certified within the Program are able to use an Open Group logo in association with their product, in proposals, in marketing materials, etc. In accordance with the Trademark License Agreement (TMLA) and Trademark Usage Guide. The label for this version of the Program is as follows:

Label
ArchiMate® 2 Certified

2. CONFORMANCE REQUIREMENTS

This section contains the mandatory requirements for certification.

2.1 Concept Coverage

A conforming product shall support all of the concepts defined in Chapters 3, 4, and 5 (Core), Section 11.2 (Motivation Extension), and Section 12.2 (Implementation & Migration Extension) of the ArchiMate Specification.

2.2 Relationship Coverage

A conforming product shall allow the ArchiMate concepts to be connected by means of the relationships defined in Chapter 7 and Section 11.3 of the ArchiMate Specification, according to the constraints in Appendix B.

For each supported ArchiMate relationship as defined above, if the relationship applies to multiple combinations of ArchiMate concepts, the user of a conforming product shall be able to re-use the same relationship symbol and method to connect each supported combination of concepts as denoted by their concept symbols. For example, ArchiMate defines the association relationship for nearly all pairs of ArchiMate concepts. However, the user of a conforming product shall be able to use a single line symbol to connect all pairs of concepts for which ArchiMate defines the association relationship.

2.3 Language Notation

A conforming product shall implement the vocabulary, notation, syntax, and semantics of the visual modeling language described in Chapters 3-7, Chapters 11-12, and Appendix A of the ArchiMate Specification.

A conforming product shall support nesting as an alternative representation of relationship types as described in Sections 7.1.1, 7.1.2, and 7.1.3 of the ArchiMate Specification. The conforming product shall clearly indicate which relationships are defined by each nesting instance, and, in updatable views, shall enable user control of relationships to be created, modified, or deleted.

A conforming product shall ensure that the graphical notation used for ArchiMate concepts and relationships remains unambiguously compliant with the ArchiMate Specification even after changes to the size, proportion, or color of modeling symbols.

2.4 Viewpoint Support

A conforming product shall support all the viewpoints specified in Sections 8.4, 11.5, and 12.5 of the ArchiMate Specification by predefining them or by enabling ordinary or specially privileged users to define them.

A conforming product shall support design viewpoints both within and across ArchiMate layers and extensions, including a comprehensive viewpoint, in which all of the ArchiMate concepts and relationships are available.

A conforming product shall re-use objects from a single underlying model in multiple views. Specifically, any changes to objects, object properties, or relationships in one view shall be reflected in all views that present the changed objects, object properties, or relationships.

A conforming product shall allow for different graphical notations for an object in different views.

A conforming product shall track the occurrences of objects in different views.

2.5 Language Extension Mechanisms

A conforming product shall permit users to add attributes to ArchiMate concepts and relationships as described in Section 9.1 of the ArchiMate Specification.

A conforming product shall permit users to define specializations of ArchiMate concepts as described in Section 9.2 of the ArchiMate Specification.

3. RECOMMENDED CAPABILITIES

The Program recommends that tools supporting ArchiMate provide these capabilities, but *does not* require them for certification.

3.1 Concept Coverage

A conforming product may optionally provide predefined specializations of the ArchiMate concepts according to Section 9.2 of the ArchiMate Specification.

A conforming product may optionally support concepts that are neither defined within ArchiMate nor are specializations of the ArchiMate concepts, as long as they do not obstruct the use of ArchiMate.

3.2 Relationship Coverage

A conforming product may optionally provide predefined specializations of ArchiMate relationships according to Section 9.2 of the ArchiMate Specification.

A conforming product may optionally support relationships that are not defined within ArchiMate, as long as the product does not require the use of such relationships to develop an ArchiMate model.

3.3 Language Notation

A conforming product may optionally support alternative notations for ArchiMate concepts and relationships other than those described by the ArchiMate Specification.

3.4 Other Capabilities

If a conforming product supports modeling frameworks and languages other than ArchiMate, it may optionally provide the same capabilities for ArchiMate as it does for the other supported modeling frameworks and languages.

4. INDICATORS OF COMPLIANCE

No tests or independent assessment of tools will be carried out in the Program.

Applicants will be required to complete a Conformance Statement Questionnaire (CSQ) to describe the conformance of their tool to the Conformance Requirements.