

Architecture Description Language Conformity Forecast

ArchiMate 2.1

ADL OBJECT (AO)

ArchiMate 2.1 (this is the “assessment object”)	This conformity forecast is based upon: ArchiMate® 2.1 Specification, dated 2013
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This assessment summary is based upon:	
___	Full Conformity Assessment
<u>X</u>	Conformity Forecast

RESULT AND DISCREPANCIES

	Conforming (not a possible result of a Conformity Forecast)
<u>X</u>	Non-Conforming

The bases of the result and any areas of discrepancy are recorded below. These are organized by the architecture description language (ADL) requirements in ISO/IEC/IEEE 42010:2011, Clause 6.3. (References to that Standard are given in the form, IS x.y.x.)

An architecture description language shall specify [per IS 6.3]:	
ADL-a	a) the identification of one or more concerns to be expressed by the ADL [per IS 5.3];
	There is no identified set of concerns for the AO.
ADL-b	b) the identification of one or more stakeholders having those concerns [per IS 5.3];
	There is no identified set of stakeholders for the AO.
ADL-c	c) the model kinds implemented by the ADL which frame those concerns [per IS 7, d];
	Model kinds are not identified by the AO.
ADL-d	d) any architecture viewpoints [per IS 7];
	The AO identifies 18 “standard viewpoints” [Chapter 8] and 9 additional viewpoints as a part of extensions [Chapters 10 and 11].
ADL-e	e) correspondence rules relating its model kinds and viewpoints [per IS 5.7].

No correspondence rules are identified.

OBSERVATIONS

AO does not identify a set of concerns in its enterprise architecture scope. This makes determination and selection of ArchiMate as relevant for use on a project difficult.

The term Concern is used informally, but no definition is provided or cited.

No evidence is presented that the pre-defined concerns [IS 5.3] have been considered.

A set of concerns is implied by the ArchiMate framework [Figure 4] “The structure of the framework allows for modeling of the enterprise from different viewpoints, where the position within the cells highlights the concerns of the stakeholder.” The AO identifies a number of “aspects” including Goals, principles, and requirements, Risk and security, Governance, Policies and business rules, Costs, Performance, Timing, Planning and evolution. Aspect is not defined or reflected in the AO’s meta model. Aspect is not specifically related to Concern in the text.

Individual viewpoints identify concerns.

No mechanism for framing new concerns is provided; user-defined extension is limited to introducing new attributes [Chapter 9.1] and specialization of existing concepts [Chapter 9.2].

Concern is not reflected in the AO’s meta model.

No evidence is presented that the pre-defined stakeholders [IS 5.3] have been considered.

Model Kind is not employed in AO. It appears that viewpoints do not allow multiple model kinds; each viewpoint contains a single, implicit model kind.

Viewpoints are specified with reference to concerns; stakeholders; purpose; conventions, which include: abstraction level, layer, aspects, concepts and relationships; and examples. Viewpoints are “located” with respect to the ArchiMate Framework (Figure 4).

- No Correspondence Rules are identified although some consistency is maintained by relationships expressed in the meta model within layers [Chapters 3, 4, 5] and dependencies between layers [Chapter 6].

BACKGROUND

ADCA is a **conformity assessment scheme** for Architecture Frameworks, Architecture Description Languages, and Architecture Viewpoints following the requirements of ISO/IEC/IEEE 42010:2011, *System and software engineering—Architecture description*.

One part of the ADCA scheme is the ADL Conformity Forecast (ADLCF). The ADLCF allows the application of the AFCA scheme for “quick looks” at candidate ADLs for purposes such as planning, comparison, etc. The present document utilizes version 1.0 of the ADCA.

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DISCLAIMER

This Conformity Forecast is based on a quick analysis of the ADL Object (AO) identified above, based on inspection of the referenced artifacts and using the same methods and analysis techniques as the AFCA. It is not intended as a substitute for a full Architecture Framework Conformity Assessment and cannot be used as basis to claim conformance to the Standard. The result, discrepancies and observations have not been reviewed by the AO Originator.