Meta-model (glossary)

From SEBoK
meta-model

A model about a model.

Sources


Discussion

There are also alternative definitions of "meta-model" fashioned for specific applications of its use that have been defined in standards below:

(1) A logical information model that specifies the modeling elements used within another (or the same) modeling notation. (IEEE 1175.1-2002 (R2007) IEEE Guide for CASE Tool Interconnections-Classification and Description, 3.8)

(2) A metamodel Vm for a subset of IDEFobject is a view of the constructs in the subset that is expressed using those constructs such that there exists a valid instance of Vm that is a description of Vm itself. (IEEE 1320.2-1998 (R2004) IEEE Standard for Conceptual Modeling Language Syntax and Semantics for IDEF1X97 (IDEFobject), 3.1.111)

(3) A model containing detailed definitions of the meta-entities, meta-relationships and meta-attributes whose instances appear in the model section of a CDIF transfer. (ISO/IEC 15474-1:2002 Information technology -- CDIF framework -- Part 1: Overview, 4.2)

(4) Specification of the concepts, relationships and rules that are used to define a methodology. (ISO/IEC 24744:2007 Software Engineering--Metamodel for Development Methodologies, 3.4)

(5) Model defining the concepts and their relations for some modeling notation. (ISO/IEC 15909-2:2011 Software and system engineering -- High-level Petri nets -- Part 2: Transfer format, 4.1.6)

Works Cited


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