

# Model (glossary)

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model

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(1) *A physical, mathematical, or otherwise logical representation of a system, entity, phenomenon, or process. (DoD 1998)*

(2) *A representation of one or more concepts that may be realized in the physical world. (Friedenthal, Moore, Steiner 2009)*

(3) *A simplified representation of a system at some particular point in time or space intended to promote understanding of the real system. (Bellinger 2004)*

(4) *An abstraction of a system, aimed at understanding, communicating, explaining, or designing aspects of interest of that system (Dori 2002)*

(5) *A selective representation of some system whose form and content are chosen based on a specific set of concerns. The model is related to the system by an explicit or implicit mapping. (Object Management Group 2010)*

## Source

(1) DoD. 1998. "DoD Modeling and Simulation (M&S) Glossary" in *DoD Manual 5000.59-M*. Arlington, VA, USA: US Department of Defense. January. P2.13.22. Available at

<http://www.dtic.mil/whs/directives/corres/pdf/500059m.pdf>

(2) Friedenthal, S., A. Moore, R. Steiner, and M. Kaufman. 2012. *A Practical Guide to SysML: The Systems Modeling Language*, 2nd Edition. Needham, MA, USA: OMG Press.

(3) Bellinger, G. 2004. *Modeling & Simulation: An Introduction*. Accessed on 11 September 2012. Available at <http://www.systems-thinking.org/modsim/modsim.htm>.

(4) Dori, D. 2002. *Object-Process Methodology: A Holistic System Paradigm*. New York, NY, USA: Springer.

(5) Object Management Group. 2010. *MDA Foundation Model*. OMG document number ORMSC/2010-09-06.

## Discussion

See also model management, model validation, model-based systems engineering (mbse) , modeling language and modeling tool.

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