Design (glossary)

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> *(System) design includes activities to create concepts and models, and/or to conceive something (a system / a solution that answers an intended purpose) based on or using principles and concepts; the outcome of design activities is a coherent and purposeful set of models or representations using defined constructs and patterns (that implement principles and concepts).* (ISO/IEC/IEEC 2009)

Sources

ISO/IEC/IEEE. 2009. *Systems and Software Engineering - System and Software Engineering Vocabulary*. Geneva, Switzerland: International Organization for Standardization (ISO)/International Electrotechnical Commission (IEC)/ Institute of Electrical and Electronics Engineers (IEEE). ISO/IEC/IEEE 24765:2009.

Discussion

The definition provided above is a synthesis and adapted to systems of several understanding to the term "Design" as found in the sources cited.

In ISO/IEC/IEEE 24765:2010 - *Systems and software engineering – Vocabulary,* "design" means:

1. the process of defining the architecture, components, interfaces, and other characteristics of a system or component;
2. the result of the process in (1);
3. the process of defining the software architecture, components, modules, interfaces, and data for a

software system to satisfy specified requirements;

4. the process of conceiving, inventing, or contriving a scheme for turning a computer program specification into an operational program;

5. activity that links requirements analysis to coding and debugging; or

6. stage of documentation development that is concerned with determining what documentation will be provided in a product and what the nature of the documentation will be (ISO/IEC 26514:2008 Systems and software engineering--requirements for designers and developers of user documentation, 4.13)

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