



“What is ISO/IEC 15288 and Why Should I Care?”

by

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ISO/IEC 15288 is the international standard for system life cycle processes. Although it was developed under the Joint Technical Committee for information technology, this system life cycle framework is extensible to many system domains. Because it covers the whole life cycle and is applicable to all levels of the system architectural hierarchy, this standard has proven to be useful to all team members involved in the development and sustainment of a system, not just systems engineers. This overview of ISO/IEC 15288 will explain the background of the standard, its importance, how to apply it, how it relates to other standards, and the benefits of its use. With respect to the content of the standard, this webinar will discuss its scope, application, processes, and system concepts.

In the past few decades, systems and software engineering practitioners have been influenced by a myriad of systems engineering (SE) and software engineering (SWE) standards and models. These standards were often developed as independent bodies of knowledge that were difficult to use together. This situation has contributed to driving these engineering disciplines apart; the lack of process integration adding to difficulties in product integration. In 2002, ISO/IEC JTC1/SC7 released the first version of ISO/IEC 15288, System Life Cycle Processes. It quickly gained wide acceptance as a basis for life cycle processes and models and has become the foundation for work to produce a set of aligned standards. Mr. Roedler will also describe the efforts taken in the past decade to align the SE and SW standards, look at the current state of these standards and models, and present future actions that are planned.

Garry Roedler is the Senior Program Manager of Systems Engineering (SE) at Lockheed Martin’s Engineering Process Improvement Center. His responsibilities include managing corporate councils for SE, Test & Evaluation and Specialty Engineering to develop/select processes, implementation assets, training, and tools for the corporation. Previously, he led SE process improvement and achievement/sustainment of Level 5 CMM/CMMI objectives, including a world first to achieve Level 5 SE-CMM ratings.

Garry has over 28 years experience in engineering, measurement, and teaching and holds degrees in mathematics education and mechanical engineering from Temple University. Other work includes leadership roles in various technical and standards organizations, including: US Head of Delegation and Task Group leader for ISO/IEC JTC1/SC7 Working Group 7 (SE and SW process standards), Practical Software and Systems Measurement Steering Group; International Council On Systems Engineering Corporate Advisory Board, Technical Board and Committees; INCOSE Delaware Valley Chapter co-founder, and IEEE Standards Assoc. Garry has worked on the author teams of several current standards, including project editor of ISO/IEC 15288, Systems Life Cycle Processes, which was adopted by LM for SE processes.