

Systems Engineering Domain Special Interest Group Charter

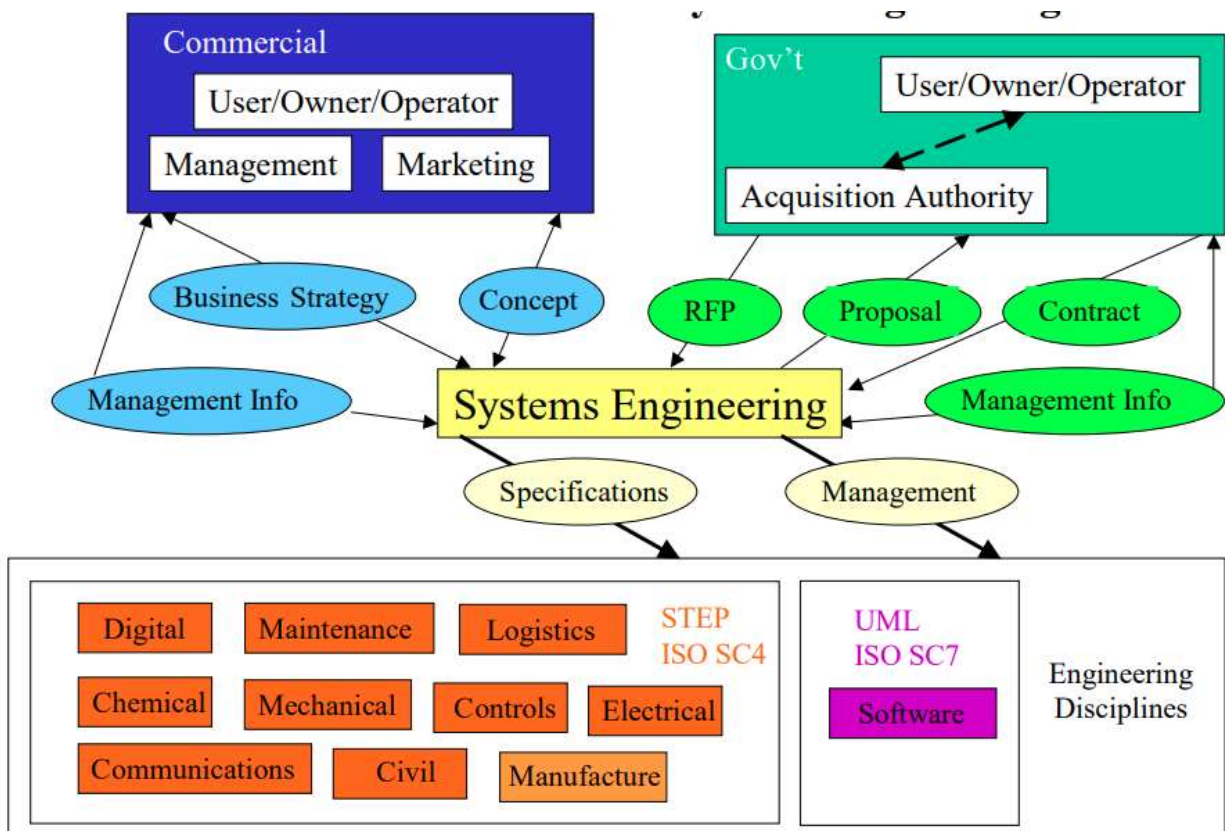
July 13, 2001

David Oliver of the International Council on Systems Engineering talks about the charter of the OMG Profile for Systems Engineering DSIG.

Ed Barkmeyer moves to charter the OMG Profile for Systems Engineering DSIG.

Systems Engineering Domain Special Interest Group Proposed Charter INCOSE/OMG Liaison View
 David W. Oliver Model Based Systems, Inc. 173 Lacuele Drive, Wakefield RI 02879
dwo1iver1@worldnet.att.net

What is the context of Systems Engineering?



The Systems Engineering SIG is a Domain Special Interest Group within the Domain Technical Committee of the Object Management Group (OMG).

Mission

The mission is to support multi-disciplinary information exchange among software packages that support engineering of physical systems, by providing metamodels, profiles, notations and interfaces for specifying, designing, and verifying physical systems.

Mission Details

- Provide a semantic mapping between the information used by systems engineers to create requirements for real physical systems and the information used by software engineers to design and implement software.
- Provide the capability of using an extended UML directly as a language for performing systems engineering.
- Promote the use of OMG technologies within the systems engineering community.
- Provide a forum for interchange among the International Council on Systems Engineering, related ISO activities and related OMG activities.

Goals

- Create a semantic bridge between the ISO 10303-233 standard and the (ISO/IEC 19501) UML standard to promote rigor and correctness in the transfer of information among groups developing large, physical, real-time systems with substantial software content.
- Create a standard UML extended modeling language for specifying, designing, and verifying complex systems using profiles, or other extensibility mechanisms.
- Provide the capability for rigorous transfer of specifications and related information among the tools used by systems engineers and by software and hardware engineers.
- Bridge the semantic gap, the professional engineering discipline gap, and the training gap that exists between systems engineering and software engineering.