



Specification of information and technical systems

The seminar discusses key economy and technology factors and a pragmatic model for successful specification and planning of investments in information and technical systems.

Length: ½ day

Seminar Description

With state of the art Blueprint Technology for specification of information systems and technical systems is it today possible to achieve a high precision on the bases for calculation, investment decisions, planning of realization and validation of delivery.

The seminar focuses on key aspects for successful specification of information and technical systems, size estimation and validation of delivery. The seminar introduces how to successfully perform business process mapping, feasibility study, requirements specification, product specification, size estimation, planning and acceptance testing of information and technical systems. The seminar also discusses the primary root cases for budget overruns, delayed delivery, high maintenance costs and the key focus areas to eliminate these cost driving factors.

The seminar also introduces business process mapping, requirements specification and product specification with the Unified Modeling Language (UML) and Systems Modeling Language (SysML) blueprints and system size and cost estimation with Function Point (FP) analysis for well-founded investment decisions.

UML/SysML has a high precision and information density compared to traditional text based requirement specifications and enable precise specification of complex logic. UML/SysML enables early verification of correctness and completeness of requirements and system specifications. In addition UML/SysML enables seamless integration of business process models/blueprints with the information system blueprints. UML/SysML also has a wide acceptance as an industry standard for system blueprints.

Specifications with UML/SysML are a superior basis for procurement and calculation of information systems and technical systems. UML/SysML also provides an unambiguous interface between the customer and supplier that can be an internal IT-department, an external contractor or a supplier of standard systems.

For size estimation of information systems Function Points has a wide acceptance as the most accurate metric and as a base for economic decisions. Function points can be compared to other units like m², m³, watt etc. and is regarded as the most fair and technology neutral unit for procured and delivered "goods" (i.e. functionality). Function points are straightforward to calculate based on UML specifications/blueprints and enables a high precision on system size estimation.

The seminar also discusses how processes such as Capability Maturity Model Integrated (CMMI), RUP (Rational Unified Process) and others can efficiently contribute to an efficient development processes and successful specification.

In addition the seminar includes how to seamlessly integrate business process models/blueprints with system specifications. This enables a complete view of the enterprise system support for the business and is an excellent base to verify that the system provides a correct support for the business needs and as a base for IT-value analysis.

The seminar can be adapted as needed for development of information systems or technical systems.

Objectives

Upon completion you have a good understanding of the key technology to achieve successful identification of customer needs, specification of solution, planning of realization, validation of delivery and IT-value analysis.

Audience

Purchasers of information systems, CEO's, CIO's, IT managers, business managers, project managers, business analysts, system analysts and all that are interested in economy and technology aspects on specification and estimation of investments in information and technical systems.

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