Module Qualities

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Abstract

This module addresses the Qualities.

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logo TBD

Qualities as Integrating Needles

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Abstract

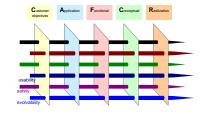
Many stakeholder concerns can be specified in terms of qualities. These qualities can be viewed from all 5 "CAFCR" viewpoints. In this way qualities can be used to relate the views to each other.

The meaning of qualities for the different views is described. A checklist of qualities is provided as a means for architecting. All qualities in the checklist are described briefly.

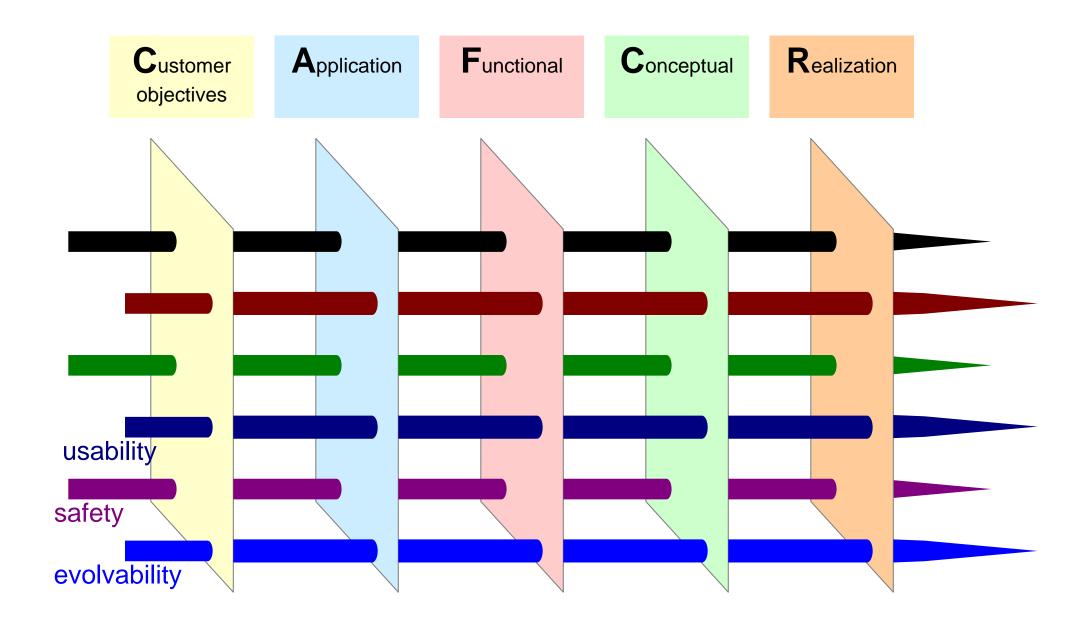
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Quality needles as generic integrating concepts





Security as example through all views

Customer objectives

Application

Functional

Conceptual

Realization





selection classification people information authentication

badges passwords locks / walls quards

administrators

functions for administration authentication intrusion detection logging quantification

cryptography firewall security zones authentication registry logging

specific algorithms interfaces **libraries** servers storage protocols

desired characteristics, specifications & mechanisms



social contacts open passwords blackmail burglary fraud

unworkable procedures

missing functionality wrong quantification

holes between concepts

bugs buffer overflow non encrypted storage poor exception handling

threats



Quality Checklist

serviceable usable ecological interoperable usability ecological footprint serviceability connectivity attractiveness contamination 3rd party extendible configurability responsiveness installability noise image quality disposability liable wearability future proof storability liability transportability testability evolvability down to earth dependable traceability portability standards compliance safety attributes upgradeability security extendibility cost price efficient reliability maintainability power consumption robustness resource utilization consumption rate integrity cost of ownership (water, air, availability logistics friendly chemicals, effective consistent et cetera) manufacturability size, weight throughput or reproducibility logistics flexibility productivity predictability lead time accuracy



Exercise Qualities

- Determine most important qualities.
- Annotate 3 most important qualities in every CAFCR view

