Abstract
This module addresses the Qualities.
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.
Quality needles as generic integrating concepts

Customer objectives
Application
Functional
Conceptual
Realization

Qualities as Integrating Needles

usability
safety
evolvability
Security as example through all views

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**desired characteristics, specifications & mechanisms**

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**Qualities as Integrating Needles**

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QNsecurityExample
Quality Checklist

usable
- usability
- attractiveness
- responsiveness
- image quality
- wearability
- storability
- transportability

dependable
- safety
- security
- reliability
- robustness
- integrity
- availability

effective
- throughput or productivity

interoperable
- connectivity
- 3rd party extendible

liable
- liability
- testability
- traceability
- standards compliance

efficient
- resource utilization
- cost of ownership

consistent
- reproducibility
- predictability

serviceable
- serviceability
- configurability
- installability

future proof
- evolvability
- portability
- upgradeability
- extendability
- maintainability

down to earth attributes
- cost price
- power consumption
- consumption rate
- (water, air, chemicals, et cetera)
- size, weight
- accuracy

ecological
- ecological footprint
- contamination
- noise
- disposability

interoperable 3rd party extendible

logistics friendly
- manufacturability
- logistics flexibility
- lead time

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Exercise Qualities

- Determine most important qualities.

- Annotate 3 most important qualities in every CAFCR view