Semantic Approach to Modelling a Consumer Electronics Enterprise

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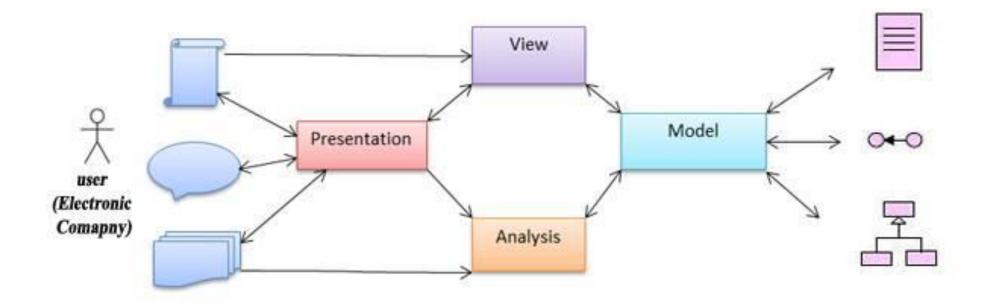
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Consumer Electronics Enterprise







Requirements

- General Requirements of the Architecture
- Physical Requirements
- □ Functional requirements of Enterprise
- Non-functional requirements of Enterprise





General Requirements of Architecture

Comprehensive

Well specified, detailed model of the enterprise and its components

Consistent

Model contains consistent terminology

Unambiguous

No ambiguous situations in model and between its states





Physical Requirements

Modelling Tools

- ► Sparx Enterprise Architect
- ARIS

Graphical Visualization Tools

- Archimate
- UML





Functional Requirements

- 1. Define specific behavior or functions of a system
- 2. Describe the interactions between the system and its components

Examples:

- Sales management How to sell (online/offline), what to sell (software, hardware, services, accessories).
- Customer Support In store or online help.
- Licensing Provide licenses for products and services.



Non-Functional Requirements

- 1. Specify criteria to be able to judge a system or a model:
 - ► Attainable technically feasible to model
 - ▶ Realizable realistic, given the resources and within the given time
- 2. Quality aspects of the system not directly related to functional behavior:
 - ► Specific without ambiguity, using consistent terminology and simple
 - ► Measurable possible to verify that this requirement has been met and define criteria which must be met to verify that specific requirement

