Abstract

The System Architecture Process is positioned in the business context. This process bridges the gap between the Policy and Planning Process and the Product Creation Process.

The purpose of the System Architecture Process is to provide the Integral Technical overview and consistency, and to maintain the integrity over time. Subjective characteristics as elegance and simplicity are key elements of a good architecture.

The scope of the system architecture process is illustrated by showing 5 views used in a reference architecture, ranging from Customer Business to Realization.
The System Architecture Process

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SAPprocessSimplified
System Architecting Relation between PPP and PCP

Context: Product Portfolio, Time

Vision, Policy, Intention

Practical Knowledge

Feedback from Reality

Policy and Planning Process

Product Creation Process
System Architecting Key Issues

key words
balance
consistency
integrity
simplicity
elegance
stakeholder satisfaction

balancing acts
External ↔ internal requirements
Short term needs ↔ long term interests
Efforts ↔ risks from requirements to verification
Mutual influence of detailed designs
Value ↔ costs

example trade-offs
performance
functionality
qualities
synergy
specific solution