Evolvable Product Families; What and Why?

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Abstract

Product lines or product families are used to serve a broad market with a limited development investment. In theory this is easily said, in practice managing product lines effectively turns out to be significant challenge. In this paper we clarify when platform strategies towards product lines make sense. Crucial for success is scoping of product line and the shared assets.

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September 5, 2020 status: planned version: 0



Multiple Markets



manufacturing, e.g. semiconductors

acquisition control

Version: 0 September 5, 2020 EPFmultipleMarkets

Complementing Systems for Same Market





Scope Analysis

market segmentation



market taxonomy customer classification stakeholder classification inventarization applications inventarization functions features performance



shared functionality analyse characteristics analyse differentiators functionality characteristics



Roadmapping: Impact of Future









Possible Levels of Sharing

intangible assets	
vision, objectives	
specifications, interfaces	processes
designs, concepts	

tangible assets	
realized components tools	
integrated (sub)systems infrastructure	
test suites	

Not everything that can be shared should be shared!

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Reuse is needed ... as part of the solution



