Improving decision making in the early phases of configuration projects

During the early phases of configuration projects very important decisions are made which will heavily influence the performance of the company, benefits in different functional areas (production, sales, purchase, product development, service etc), maintenance of the configuration system and quality of the dialogue between the configuration system and the users. Today there exists very sparse tools and procedures which can assist the early phases, i.e. conceptual modeling of the products and product assortment. This paper presents a five-phase procedure for conceptual modeling in configuration projects. Each of the five phases is supported by a set of tools. The main idea of the procedure is utilization of a so-called Product Family Master Plan, which is a formal description of the product assortment and its variation. The procedure has been tested at one of Baan’s (SSA Global) customers with very convincing results. © International Journal of Industrial Engineering.

General information
Publication status: Published
Organisations: Engineering Design and Product Development, Department of Management Engineering, Operations Management, Department of Mechanical Engineering
Pages: 452-461
Publication date: 2011
Peer-reviewed: Yes

Publication information
Journal: International Journal of Industrial Engineering-Theory Applications and Practice
Volume: 18
Issue number: 9
ISSN (Print): 1072-4761
Ratings:
Scopus rating (2011): CiteScore 0.3 SJR 0.173 SNIP 0.442
Original language: English
Keywords: Master plan, Sales, Data mining, Product configuration, Product assortment, Conceptual modeling, Visualization, Flow visualization, Product development, Models, Configuration system, Sea global, Formal Description, Early phases, Product variety, Product families, Modeling, Functional areas
Source: orbit
Source-ID: 316285
Research output: Contribution to journal › Journal article – Annual report year: 2011 › Research › peer-review