

The Deployment of Product-Related Environmental Legislation into Product Requirements - DTU Orbit (09/11/2017)

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Environmental legislation is increasingly changing its focus from manufacturing-oriented to product-oriented instruments. Compliance with product-related environmental legislation is achieved by the incorporation of environmental requirements into the early phases of the product development process (PDP). Nevertheless, the deployment of product-related environmental legislation into product requirements is still a challenge. This study followed an inductive approach to propose a guideline to support the identification, analysis and deployment of product requirements based on product-related environmental legislation. The guideline is composed of nine steps, clustered into three groups according to their main objective: (A) identification of environmental product-related legislation; (B) identification of legislative topics to be considered for the deployment of requirements; and (C) creation and validation of product requirements. The product requirements deployed are to be considered during the PDP. The guideline was evaluated in an expert consultation in a large manufacturing company, suggesting that it can be used to support the systematization and deployment of product-related environmental requirements.

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