

ABSTRACT

Product architecture is the assignment of the functional elements of a product to the physical building blocks of the products with a view to outlining the basic physical components of the product, what to do and what the component connector / barrier used for other equipment. In this study, it illustrates as an effective method to support fledgling designers to analyze problems using integration analysis product decomposition and design models decomposition products Contact & Channel (C & CM).

Indonesian Aerospace develop a custom design of CN235 as an transport aircraft for army personnel and VIP / VVIP. From the interviews and observations regarding CN235 aircraft lavatory, found several weaknesses, which is largely due to the interaction between the components passenger information sign with the other components that can cause a potential fire on the main panel.

This study addressed the issue of product architecture at CN235 aircraft lavatory. using integration analysis product decomposition that deliver to results clustering analysis based on the interaction of the individual types of product architecture for designing an improvements for future studies. Besides, the method of modularization approach contact and channel models also performed focusing on improving the actual design matrix displays as an analytical tool to determine the function of each module that can be taken into consideration in the design of the product architecture.

Keywords: *Architectural Products, Lavatory, Integration Analysis, Contact & Channel Model, Modular, Design Structure Matrix*