

**IMPLEMENTATION USING TOGAF IN THE WAREHOUSE
MANAGEMENT SYSTEM TO OPTIMIZE PRODUCT CIRCULATION DATA
COLLECTION**

(Case Study: CV Galaxy Media Ilmu, Bantul, Yogyakarta)

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ABSTRACT

Analysis and design of warehouse management systems at CV. Galaxy Media Ilmu with the application of the TOGAF framework (The Open Group Architecture Framework). This research was conducted at the CV results warehouse. Galaxy Media Ilmu which operates in the printing sector. The business processes that occur in the product warehouse include recording production results, the delivery process and product return transactions. The problem addressed in this research is that product data collection is less detailed, making it difficult to differentiate between products and different entities. Apart from that, there is no automatic stock reduction according to the transactions that occur, so this can cause discrepancies in the stock issued and existing data. The solution to solve this problem is by analyzing and designing a warehouse management system that can store detailed product data. Able to store warehouse transactions such as travel documents and repair notes by integrating them into stock data so that stock data becomes real-time. The resulting information system follows the TOGAF framework guidelines in designing business architecture, data architecture, application architecture, hardware requirements and technology architecture. This research applies an understanding of TOGAF that can be adapted and applied effectively in the analysis and design of warehouse management systems at CV. Galaxy Media Science. The aim of this final assignment is to be able to implement the knowledge gained during lectures to help solve problems in the field. The results of this research have been tested and obtained test results of 96.9%. The conclusion of this research is that it shows a warehouse management system that provides good development, more consistent data collection circulation, more guaranteed data security and real-time product quantity calculations.

Keywords: *TOGAF, Information Systems, Warehouse Management, System Design, Returns, Production.*

