

**ABSTRACT**

**ANALYSIS AND DESIGN OF INTEGRATION OF  
REFERENCE AND MASTER DATA MANAGEMENT (MDM)  
AND DATA QUALITY MANAGEMENT(DQM) APPLICATION  
BASED ON OPEN SOURCE TOOLS**

**(Case Study : BPOM)**

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In developing an information technology data is an important asset for the company. The data can be the right decision maker for a business strategy. But the data has a high possibility of completeness issues and may contain many discrepancies and also such inconsistent, missing and incomplete data is a poor application of data.

Reference Master Data Management ensures that the data is consistent and accurate by producing a set of data as a guideline for the main data on the company. As the main data on the data company must have good data quality. Data Quality Management is needed to provide solutions in improving data quality through standardization procedures according to business needs.

The result of this research is a developed prototype application that integrates the two modules of reference and master data management and data quality management based on open source. The results of this study are expected to meet the needs of companies against the needs of open source applications where there is data quality management and reference and master data management.

**Keywords:** Data, Reference and master data management, Data Quality Management, Open Source.