ABSTRACT

A company or organization must have the network infrastructure to support

internet facility, and today many are using mobile sevices, therefore considered

appropriate wireless network technology as the network infrastructure in the

company or organization. Wireless network is a network that uses radio or

electromagnetic waves as the transmission medium.

In this study, the design of wireless network take the object at Pusat Dokumentasi

dan Informasi ilmiah - Lembaga Ilmu Pengetahuan Indonesia (PDII-LIPI) by

using Network Development Life Cycle (NDLC) method. This method is usefull

wiewless network infrasturcture and can monitor network in developing

performance in PDII-LIPI.

Analysis and testing wireless network is done by simulating the suggestion

wireless network prototype and measure the access point signal distribution at

predetimined locations. Result from this study is a draft design with measurement

and analysis of the proposed network which will improve the shortcomings of the

existing network conditions in PDII-LIPI.

Keyword: Wireless Networks, NDLC, Network Infrastructure, Access Point.

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