

A Framework of Wireless Maintenance System Monitoring Based Cloud Technology

Fransiskus Tatas Dwi Atmaji

Telkom University
Indonesia
frans.tatas@gmail.com

Judi Alhilman

ITTELKOM
Indonesia

Abstract

This paper proposes a basic framework of wireless maintenance system monitoring for manufacturing machine and equipment using cloud-based technology. The aim is to minimize the full wire connection and monitoring process so that the access will be more convenient and efficient. By utilization of this proposed framework, the current condition of manufacturing machine and equipment could be monitored for 24 hours and accessed anywhere and anytime even though we are not in local area network of machine or equipment. This system is very useful as an early warning for maintenance department in order to prevent the sudden breakdown as well as minimize the worst case like as explosion. Therefore, the maintenance team would be possible to make a quick decision and action, whether it need a corrective, preventive or other special maintenance action. By this concept, it does not only increase the reliability, availability, and maintainability of the manufacturing machine and equipment but also will decrease the maintenance cost in overall as well.

Keywords

Maintenance System, Wireless monitoring, cloud based technology