DEVELOPMENT OF ISTOW-MOBIE SOFTWARE FOR ACCESSING DATABASE OF ISTOW 1.28 USING MOBILE TECHNOLOGY DAN SMS GATEWAY

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ABSTRACT

Stowage planning is a cargo load planning on a container vessel so loading of cargo does not interfere the stability of the ship. iStow 1.28 is stowage planning software for KM. Sinar Jambi and its operational activities. Operational problems still arise with iStow 1.28 software, such as data content, data container, and ship tank data which is the primary data for stowage planning are not actual and big length of time to get the information in the field because the distance between the field and the office where computers place in. By using mobile technology and SMS Gateway, this final project developed iStow-Mobile software to be installed on the mobile phone user to access a database on a PC iStow 1.28 either get information or update the data.

From the experiments performed, access databases of software iStow 1.28 with iStow-Mobile was success. It’s needed time 15 to 24 seconds (average 18 seconds) for each process depend on the GSM network, data cable connections, and hardware conditions.

Keywords : stowage plan, iStow, container vessel, mobile, SMS Gateway, data access, J2ME