

RFID 와 웹서비스를 이용한 선박과 모바일 하버 간의 선적정보 교환 프레임워크

김익준*, 한순홍*, 이종환*, 김대환*

A Framework for Container Stowage Information Exchange between Ships and Mobile Harbors using RFID and Web Services

Ikjune Kim*, Soonhung Han*, Jongwhan Lee* and Daewhan Kim*

ABSTRACT

Efficient stowage plan is required for handling large number of containers in a container terminal. Before a ship enters port, most of container terminals prepare a stowage plan based on information received from the shipping company. If this information does not have the accurate information of containers in the vessel, the stowage plan might be often changed or sometimes it becomes useless. And this problem also can occur between Mobile harbors and container vessels. The mobile harbor is researched for fast container loading/unloading in container terminal in shallow see. But still there no research about container data or product flow. In order to avoid a problem above, we apply RFID system in the container ship and we propose a framework for communication between ships and mobile harbor using RFID and Web Services technology..

Key Words : RFID(Radio Frequency Identification), Web services (웹서비스), Container vessel(컨테이너 선박), Container terminal(컨테이너 터미널)