



Applying new technologies to freight railway operations

Mr. Takaaki Otsubo

General Manager, Engineering Planning Department

Japan Freight Railway Company, Japan

Abstract

JR Freight is a company that transports approximately 30 million tons of freight annually, by using 8000 km of rail network mainly in Japan. Freight transportation using containers is our core service. We own over 7,000 container wagons and over 60,000 containers which have been continually improving in terms of managing and operations. In the lecture, we would like to introduce an information system such as container location management using IC tags and GPS, and a hand brake detection system using pressure sensors and mobile communication. These systems have been introduced to prevent accidents due to human error and help enhancing work efficiency while saving the operation cost. Also, we would like to mention "The future prospects".

Short CV

1995 Graduated from Faculty of Engineering, Tokyo University

1995 Joined Japan Freight Railway Company

2015 General Manager, Transportation Vehicles Department, Tokai Branch

2020 Deputy General Manager, Business Creation Promoting Department, Headquarters

2022 General Manager, Technology Planning Department, Headquarters