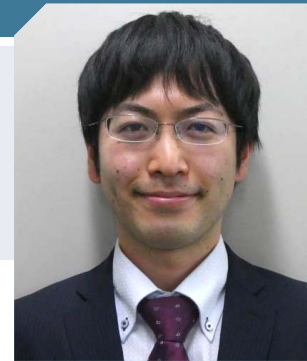


# Title Abstract: A demonstration experiment for the practical implementation of VDES

By: Mr Tomoya NAKAJIMA | Japan Coast Guard

Contact e-mail: [jcghkokugikaihatsu1-6r9i@mlit.go.jp](mailto:jcghkokugikaihatsu1-6r9i@mlit.go.jp)

Section Chief, International Affairs and Engineering Development Office, Administration and Planning Division, Maritime Traffic Department Japan Coast Guard. Graduated from JCG Academy in March 2011. Scope of Activity: Development of maritime digital system including VDES.



## Abstract:

The presentation gives overview of Japan's contributions to the practical implementation of VHF Data Exchange System (VDES). The Japan Coast Guard (JCG) hosts a focus group on VDES in which maritime stakeholders can discuss possible use cases of VDES and other VDES related issues. Based on the stakeholders' needs for VDES that had been found through the focus group, the JCG and the Tokyo University of Marine Science and Technology jointly conducted a VDES demonstration experiment in Tokyo Bay in December 2018. The main purpose of the experiment was to demonstrate to the stakeholders how VDES could realize their needs.

There were 36 participants from academia, industries and government agencies in the demonstration experiment. The opinions from participants show that VDES has a strong potential in broadcasting safety related information from shore stations to ships; on the other hand, it was also found through the demonstration experiment that there are some concerns on VDES as a substitute for voice communications, especially those between ships, due to the lack of efficient input methods onboard.

The result of the demonstration experiment suggests that enhancement of the usage of formalized data, including Application Specific Messages (ASM) could be a key to overcome the challenge.