

ABSTRACT SUBMISSION –– SOUMISSION DE RESUME

**Topic No.: / Sujet n° :** \_ **or / ou**

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ABSTRACT / RESUME:

A Message Relaying Architecture based on the Maritime Resource

The maritime cloud is defined as a communication framework that enables reliable, stable and seamless electronic information exchange using all a variety communication systems between maritime parties. The SMART-Navigation project, a Korean e-Navigation project, supports both LTE-Maritime and VHF Data Exchange System (VDES) which are heterogeneous communication means by introducing a maritime cloud as a communication framework. Vessels can change communication mean based on quality of communication among heterogeneous communication means at any time. Even if the ship's communication is unstable and unexpectedly disconnected, the message to the ship must be transmitted seamlessly. In this paper, we propose a message relaying architecture based on Maritime Resource Name(MRN) which is a unique identifier of ship and maritime party to support that functionality.

*Keywords: Maritime Messaging Service, Maritime Cloud, Seamless Roaming, Message Relaying*

