**ABSTRACT SUBMISSION**

**Topic No.: 3**

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**ABSTRACT**

Title: A study on prototype system for exchanging and managing AtoN information based on the IALA S-201 AtoN product specification

Keywords: S-100, S-201, AtoN, ENC, e-Navigation

Abstract: IALA has developed the S-201 AtoN product specification based on the concept of IHO S-100(Universal Hydrographic Data Model) to establish international common structure for exchanging AtoN information. The standard met the requirement for information exchange between AtoN authority and parties requiring AtoN information and the requirement for internal management. The S-201 also included the portrayal part to display AtoN information on ENCs. Since exchange and integration of AtoN information will be available between regional and central office via the S-201 product specification, it’s been required to conduct a study on AtoN management transition considering the standard. This study will develop a prototype which can exchange AtoN information and manage those information on maps like ENC. We will evaluate the sufficiency of application schema by applying Korean AtoN information to the standard and identify several improvements by developing a prototype of AtoN management system.