

ABSTRACT SUBMISSION –– SOUMISSION DE RESUME

**Topic No.: / Sujet n° :4or / ou**

**proposed topic / sujetproposé:Development of e-Navigation Service Architecture Based on Maritime Cloud Conceptual Model**

AUTHOR / AUTEUR:

**Title / Titre (Mr, Ms, Capt, etc.) :Mr**

**Family name / Nom de famille :Bao**

**Given name/ first name / Prénom :Jianbo**

**IALA member organisation / Organisationmembre de l’AISM :**

Donghai Navigation Safety Administration, China

**Postal address / Adressepostale :**

190#, Siping Road, Hongkou, Shanghai, China;200086

**Telephone (including country and area codes) / Téléphone(y compris codes national etrégional)**

**Office / Bureau :****(+86) 21 66072792 Mobile : (+86) 13916675256**

**e-mail(s): bjb@vip.sina.com**

ABSTRACT / RESUME:

Based on the introduction of the existing Chinese navigation safety service system, we propose the e-Navigation service architecture in china based on "maritime cloud" conceptual model. We focus on the architecture design, business function requirement and cooperation model of Maritime Service Registry Service (MSRS), Maritime Service Identity Service (MSIS) and Maritime Messaging Service (MMS). Other existing and future cloud application services could be mounted to the proposed Chinese e-Navigation service system at anytime and anywhere. We are setting up a Chinese e-Navigation Test-bed according to the architecture, which is also a contribution to the development of IMO e-Navigation strategy.