ABSTRACT SUBMISSION –– SOUMISSION DE RESUME

**Topic No.: / Sujet n° : 2 or / ou**

**proposed topic / sujet proposé: VDES-----------------------------------------------------------**

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ABSTRACT / RESUME:

**VHF data Exchange System VDES – Status and international standardization -**

Mr. Stefan Bober and Mrs. Peggy Browning

VDES was initiated by IALA to enable digital data exchange for e-navigation and to protect the AIS for being overloaded. IALA developed the concept of VDES, which includes the functions of AIS, ASM, VDE TER and VDE SAT.

IALA has closely worked together with ITU to define the technical standard for VDES, Recommendation ITU-R M.2092, and to secure radio spectrum in the VHF maritime mobile band needed for VDES. The World Radiocommunication Conference 2015 assigned the frequencies for ASM and the terrestrial functions of VDE. However, the frequencies for satellite function of VDE could not be assigned due to insufficient study on sharing and compatibility issues. As a consequence, VDES is still not a complete functional system as a whole. This should be solved at WRC-19.

IMO has recognized VDES as one of the potential elements of e-navigation and a future possible mechanism for the distribution of MSI.

Prototype developments of VDES components and performance trials are on their way with encouraging results. IEC has started to develop test standards for VDES in an initial phase.

The presentation will give an overview of the activities at the Telecommunication Working Group at IALA ENAV Committee and its involvement in development and international standardization of VDES.

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