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ABSTRACT SUBMISSION –– SOUMISSION DE RESUME

**Topic No.: / Sujet n° : 2 or / ou**

**proposed topic / sujet proposé:** Experiences Implementing the Voice/DSC VHF Radio Communication Service with Simulcast Broadcasting at the German Coast

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ABSTRACT / RESUME:

**Experiences Implementing the Voice/DSC VHF Radio Communication Service with Simulcast Broadcasting at the German Coast**

**The VHF radio communication service at the German coast is highly reliable and coastal wide. It uses open technical interfaces and standards. Voice is transferred by Voice-over-IP (VoIP) on digital lines. We had to minimize downtime for the existing VHF communication service during installation new components. VTS-operators should not recognize any interruption in communication.**

**There are many advantages of simulcast broadcasting with common frequency. Several communication channels were used in the past for VHF coverage in the VTS-district. Operators had to decide which VHF channel is used in the area. Now VTS-operators use only one channel for a wide coverage. Received VHF-signals from ships are weighted so that only the strongest signal will be received at the operator desk.**

**Delay of digital voice transmission was a problem while implementing new radio sites. Operators want to change back to the old analog system if the new communication service has a failure. Old analog and digital network was used in parallel. While broadcasting an echo between analog and digital systems was heard. This could be solved by reducing volume of the not used system at the operator desk.**

**At the German coast operation of our new communication service with simulcast broadcasting started in 2016.**

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| **PLEASE RETURN TO** [**contact@iala-aism.org**](mailto:contact@iala-aism.org) **by 31st March 2017**  **VEUILLEZ RETOURNER A** [**contact@iala-aism.org**](mailto:contact@iala-aism.org) **avant le 31 mars 2017** |