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Using of new narrowband waveforms to ensure proper operation of command and communication systems

Tytuł

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Autorzy słownie

Dobkowski Adam, Wiśniewski Marcin, Domaros Paweł

Autorzy

[Grochowina Bogusław](#) [Matyszek Robert](#)

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Abstract: Accomplishment of basic services implementation with specific quality is one of the main challenges of the command and communication systems for modern maritime safety and defense. The specificity of the marine environment imposes the use of narrowband HF (High

Frequency) and VHF (Very High Frequency) radio communication devices which are capable to implement IP transmission. This paper presents the requirements for the HF and VHF radio systems according to the IP protocol requirements. At the beginning basic properties of narrowband HF and VHF waveforms in context of their operational scenarios has been described. Then results of experimental research (implementation of narrowband services — voice and data) has been presented. Finally further research directions with contribution of the authors, in NATO working groups related to the development of NBWF (Narrowband Waveform) for coalition communication has been presented.

Keywords: LOS, BLOS, NBWF, RKP-8100, RSSI, BMS,VHF, UHF, HF.

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