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| From: ENAV Committee | ENAV WG3 intersessional Jan2018-ESTEC-output05 |
| To: ENG Committee | 19 January 2018 |

LIAISON NOTE

“Is R-Mode the VDES Killer Application?”

# Introduction

The ENAV Committee requests the advice of the ENG Committee in relation to R-Mode using VDES.

# Discussion

ENAV-WG3 (now WG2 in the Work Period 2018-2022) acknowledges the receipt of the PNT document regarding R-Mode using VDES application.

The ENAV WG discussed the document during their meeting in January 2018.

The WG raised several clarification points regarding expectations on VDES base station with R-Mode capability and these are:

* What are the expected requirements in available a) data rate, b) access bandwidth, c) packet size and data structure and d) at which update rate for the communication?
* There were concerns raised as the VDE channels are currently allocated by ITU Radio Regulations as mobile service and not for radionavigation service
* What are the requirements on the slot transmission accuracy / transmission timing jitter of the clock at the base station and what will be the overall impact on the jitter between the different clocks?
* In case of spoofing at the base station what is the impact?

In case of spoofing at the mobile station what is the impact on the vessel? Currently VDE assumes it uses the location and timing information is provided by GPS (through the AIS receiver).

# Action requested

The Committee is requested to provide clarifications, potentially by a conference call.