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| **From:** | ENAV Committee | ENAV29-XXXX |
| **To:** | ENG Committee | 25 March 2022 |

**LIAISON NOTE**

**5G Precise Positioning (Qualcomm Presentation)**

# introduction

As identified in the ENAV WG Terms of Reference, WG2 reviews emerging digital technologies that may be suitable for use by IALA members. This work has resulted in the provision of several presentations on related technologies.

# Background

Within the continued digitalisation of the maritime industry there are many developments in technology. The requirement for precise positioning remains a challenge, and is related to resilient Position, Navigation and Timing.

At ENAV29 WG2 arranged for a presentation by Qualcomm that covered the use of 3GPP technologies to provide GNSS independent positioning within ports, approach to ports and along the coastal environment.

# Discussion

The presentation provided a focus on innovations for positioning in 5G New Radio (NR) as well as 5G positioning techniques as noted in the images.

These features are related to Release 17 (Q2 2022) and Release 18 (Q1 2024) of the 3GPP specifications.

Timeline

Description automatically generated

Graphical user interface, application, Word

Description automatically generated

The Qualcomm presentation, and the recording of the presentation, is shared with the ENG Committee as an input to ongoing works within the ENG Committee.

# Action requested

The ENG Committee is requested to:

* Note the presentation from Qualcomm as provided to ENAV29 as provided in the attachment to this liaison.

Link to the recording of the presentation could be found [here](https://youtu.be/egvcpS6E9iY) and the supporting [material](https://nextcloud.iala-aism.org/index.php/s/Q53eKRBiJG7onKf).