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| From: ENG committee | ARM20-7.3.3  (ENG19-9.2.1.5) |
| To: ARM committee |  |

LIAISON NOTE

Development of Guidance on the use of simple IOT sensors on physical Aids to Navigation

# INTRODUCTION

At ENG19 the ENG committee received a liaison note ENG19-3.1.0.16 from ARM19. The committee was requested to provide input on their experiences and use cases related to the application of IoT on physical AtoN through a liaison note from ARM.

# DISCUSSION

During the ENG19 meeting, a presentation on the development and use of maritime IoT technology on AtoN was provided by Korea. This highlighting the use of a low power communications (NB-IoT) medium to transmit data successfully. As part of this project some 17 terminals were deployed connecting to 16 base stations. This provided an example of an IoT solution with the potential for future expansion.

Within the ENG workplan, there is a task group progressing a draft guideline on Harmonised IoT Protocol for Visual AtoN (input paper ENG19-3.1.1.9.1). This guideline outlines a structures approach to how relevant data is captured, organised and transmitted in a secure manner. This having the potential of being an agnostic solution to AtoN data management for small lanterns.

# ACTION REQUESTED

The ENG committee kindly request clarification from ARM committee on the scope of the task to enable more informed feedback from ENG committee.