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| From: DTEC4 | ARM20-7.3.6  (DTEC4-15.3.2) |
| To: ARM 20 | 27 March 2025 |

LIAISON NOTE

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

# INTRODUCTION

The ARM Committee forwarded a liaison note requesting input on the use of Internet of Things (IoT) on physical Aids to Navigation (ARM19-11.2.2 / DTEC4-6.2.2.13). DTEC discussed the input paper, including the definition of IoT and ‘simple’ IoT.

# DISCUSSION

The DTEC Committee notes the existing IALA G1179 – An Introduction to the Internet of Things (IoT) from an IALA Perspective (2022). This guideline indicates that:

*The Internet of Things (IoT) describes the network of physical objects (“things”) that are embedded with sensors, software, and other technologies for the purpose of connecting and exchanging data with other devices and systems over the Internet.*

The automated sharing of data from multiple ‘objects’ (‘things’) is used in many aspects of AtoN, however it may not have been considered as an IoT system, noting that machine-to-machine connectivity has been in use for some time. The ‘objects’ have usually been hard-wired or connected through private networks, which is different to the use of the internet for the connectivity.

G1179 lists two advantages of real time monitoring:

1. *Preventative maintenance can be scheduled to be pre-emptive based on the AtoN system status.*
2. *The real time status of the monitored systems and associated availability can be shared with stakeholders.*

DTEC notes that the rapid development of IoT may mean that G1179 should be reviewed and updated to reflect current work in the area. The work of the ARM Committee on identifying the use of IoT would be suitable to a future version of the document.

# ACTION REQUESTED

* The ARM Committee is requested to note the input from the DTEC Committee.
* The ARM Committee is invited to review and refine IALA G1179.

Attachment – IALA G1179 MSWord Version