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| **From:** | DTEC Committee | DTEC3-11.2.2.7 |
| **To:** | VTS Committee | 3 October 2024 |

**LIAISON NOTE**

Update of Emerging Technology – Candidate Technology Tracker

# introduction

The DTEC Committee has reviewed input from the VTS Committee on the Emerging Technology – Candidate Technology Tracker.

# Discussion

The DTEC Committee appreciates the comments and has reviewed the document, with the following points identified:

| Comment from VTS Committee | DTEC Response |
| --- | --- |
| What is the intent of the document? | A heading for Introduction and Purpose has been added.  The document is provided to advise IALA members of the outcomes of the reviews of new technologies against the IALA G1153.  The reviews include completed G1153 tables, with supporting documentation as appropriate. They are provided in sub folders on the IALA File share for further information. |
| Could DTEC add some information of any restrictions in global coverage of the technologies mentioned | The G1153 table includes constraints (item 13). There are other review elements related to implementation and demonstration. VTS is invited to review G1153 and provide feedback on the document for more focused geographic coverage information to be included in the next edition of the Guideline. |
| Could DTEC add some information on how to determine when a technology is out of date or obsolete? | The dates on the review provide indication of the status of the technology at the time of the review. The concept of deleting technologies that are overtaken by other developments or those that reach a ‘sunset’ phase will be considered further. |
| The Annex (Chapter 1) refers to the “ENAV Committee”, we suggest this should be updated to “DTEC Committee | Noted and amended |
| The paragraph commencing ‘IALA is an international association…’ may require review in light of the change of status of IALA from NGO to IGO and the change of name to the International Organization for Marine Aids to Navigation. | Noted. The text was provided in response to a liaison to LAP, and a further request has been developed at DTEC3 for LAP. In addition, the question to LAP includes feedback on the questions in G1153 related to legal issues (Q21) and intellectual property rights (Q22). |
| **3GPP – 4G (including LTE) –** VTS Committee strongly recommends that this is not restricted to 4G as it is well established and will be replaced by 5G and followed on by 6G and 7G | These technologies are continually under review. DTEC continues with its existing task on the use cases for IMT-2030 and beyond. It is noted that ‘7G’ does not exist, while 6G is undergoing standardisation. |
| **Digital VHF voice technology** has been demonstrated and could in theory be suitable for use by IALA members on shore facilities. However, on board equipment is subject to the existing IMO/SOLAS carriage requirements and not within IALA’s remit. A significant effort in terms of testing, trials and a phased introduction is needed as suppliers, ship operators, shore authorities and manufacturers will need to operate both traditional analogue channels and new digital channels in parallel over a significant number of years. Additionally, although the VTS Committee notes the “voice to text” work currently being undertaken, IALA is not in a position to endorse any emerging technology related to replacing carriage requirements until its use is approved by IMO. | Noted. There is work underway at ITU and IMO regarding the development of digital voice technology in maritime.  The technology is mature and in use in other areas, in some cases for over 16 years.  For information – World Radio Conference (WRC) Resolution 363 (Rev.WRC-23) invites WRC-31 to *consider, based on the results of studies, and within the Radio Regulations, excluding new allocations under Article 5, possible regulatory changes to advance digital voice and data technologies within the VHF maritime mobile band.* |

Based on the review a revised version of the Candidate Technology Tracker has been created and is available on the IALA Fileshare under ***Committees / Technology Reviews – Summary and Folders***.

# Action requested

1. The VTS Committee is invited to note the changes to the Candidate Technology Tracker and provide further feedback if required.
2. The VTS Committee is invited to identify possible amendments to IALA G1153 Template for the review of emerging technologies for possible use by IALA members and provide feedback to DTEC as appropriate.
3. Members of the VTS Committee are invited to identify possible emerging technologies or innovative approaches that could be suitable for use by IALA members, with contact information for follow up, to the DTEC Committee for future consideration within the IALA G1153 template review process.