Input paper: DTEC5-6.2.3.8

Input paper for the following Committee(s): check as appropriate Purpose of paper:

**□** ARM **□** ENG **□** PAP X Input

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Agenda item [[1]](#footnote-1) 6.1

Technical Domain / Task Number 2 6.3.5

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Discussion on the draft Guidelines on VDES resource sharing and coordination/cooperation

# 1 Summary

This document provides the outcome of the discussion made at DTEC WG3 Intersessional meeting held in August 2025, and also provide discussion points on the development of the Guidelines for VDES resource sharing and coordination/cooperation.

## 2 RELATED DOCUMENTS

IALA G1060, G1117,

ITU-R M2092-1

ENAV30-5.1.3.3, DTEC1- 5.1.3.5. DTEC2-5.2.3.4, DTEC3-5.2.3.2, DTEC4-6.2.0.8

# 3 BACKGROUNDS

Ocean Policy Research Institute (OPRI) of Sasakawa Peace Foundation (SPF) Japan proposed a new work item of development of guidelines for VDES resource sharing and coordination, cooperation at IALA ENAV 30 by the document EVAV30-5.1.3.3. ENAC Committee agreed with the proposal and put the proposal to the IALA Council.

IALA Council in 2022 approved the proposed work item of “Develop Guidelines on VDES resource sharing and coordination/cooperation” has been approved by the Council in 2022 for a work of DTEC, as shown in the list of IALA Committee work programme 20223-2027 as DTEC-6.3.5.

OPRI submitted the documents ENAV30-5.1.3.3, DTEC1- 5.1.3.5. DTEC2-5.2.3.4, DTEC3-5.2.3.2 and DTEC4-6.2.0.8 for the development of the draft guidelines., and summitted a discussion paper to DTEC WG3 Intersessional meeting held in August 2025. The WG3 intersessional meeting discussed on this issue and gave some suggestions for further development of the draft guidelines.

# 4 Terms of refernce of the work item

The terms of reference approved by the Council are as follows:

Committee work item No. DTEC-6.3.5

Title: Develop Guidelines on VDES resource sharing and coordination/cooperation

Committee: DTEC

Description: Develop a guideline that provides framework of VDES resource sharing and coordination / cooperation for VDES satellites providers, VDES land-stations and VDES users to realize smooth and effective VDES communications on both official and private communications.

Period of work: 2023-2027

# 5 Specifications in ITU-R M.2092-1 relating to VDES resource sharing

# Some points relating to VDES resource sharing in ITU-R M.2092-1 are as follows:

* ITU M2092-1 Annex 5 VDE-SAT 3.19 mentions "Multiple satellite networks can be combined to represent a roaming network (with roaming network ID).
* However, M2092-1 Annex 5 does not give detailed specification of "roaming".
* M2092-1 Annex 5 requests VDES satellite to provide bulletin board which accepts any VDES message resource request from VDES ship stations and VDES land stations.
* M2092-1 Annex 3 ASM specifies the Scheduled broadcast message (7.4), Broadcast message (7.5), Scheduled Addressed message (7.6), Addressed message (7.7), Acknowledgement message (7.8) and Geographical multicast message (7.9) noting that scheduled addressed message, addressed message and acknowledge message contain destination ID to which VDES system shall (should) transfer the message.

# 6 DISCUSSIONS

Major discussions made at the DTEC WG3 Intersessional meeting were as follows.

**6.1 Title of the guidelines**

"resource sharing" is used in M2092-1 to indicate time slot resource sharing on TMDA. WG3 agreed to keep the title of the guidelines as "VDES resource sharing" and agreed also to clearly define "resource sharing" within the guidelines, for example "resource sharing" in the guidelines means "sharing the resource of infrastructure, i.e. satellites, ship stations and shore-based stations".

**6.2 Participation to VDES resource sharing**

Followings were, in general, noted:

* Joining to the resource sharing is voluntary basis.

It would be necessary to clarify how to share/organize the bulletin board among those participating organs (satellites, shore-based stations).

* The organizer/operator of VDES satellite and/or VDES shore-based station should notify its intention to join the resource sharing to IALA or designated international organ.
* Ot would be necessary whether VDES ships stations should notify its intention to join to or use VDES resource sharing to IALA.
* The composition of resource sharing should be notified to VDES users.

**6.3 Communication protocol**

Followings were, in general, noted:

* The protocol of the messages shall follow ITU-R M.2092-1 in order to keep compatibility of the communications.
* The contents of the messages should not be opened or altered during the communications through resource sharing.

**6.4 Actions to be taken to further develop the guidelines**

OPRI should submit a discussion paper on the draft guidelines to DTEC5 for assisting the discussion to be taken at DTEC5.

OPRI should also submit a draft guidelines to DTEC5 WG3 to give the basis for the consideration of WG3.

# 7 ACTION requested of the commitee

The Committee is invited to:

1. note the terms of reference of the work item of the development of guidelines for VDES resource sharing and coordination. Cooperation (paragraph 4);
2. note the discussion made at DTEC WG3 intersessional meeting (paragraph 5 and 6) ; and
3. instruct WG3 to further develop the draft guidelines for VDES resource sharing and coordination

1. Leave open if uncertain [↑](#footnote-ref-1)