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**Author(s)/Submitter(s)** CHINA MSA

Proposal for THE DEVELOPMENT OF the annex “Virtual AIS AtoN” to the new AIS guideline draft

# Summary

According to the report of ARM19, the AIS task group has completed a new draft AIS recommendation and parts of a new draft AIS Guideline. The relevant contents and annexes of the new Guideline still need to be supplemented and improved. China MSA has sorted out the related documents such as R0143, G1081 and G1062 involved in the new AIS Guideline, and made a relevant annex to the section 3.3 “Virtual AIS AtoN” of the new AIS Guideline for the Committee’s review.

## Purpose of the document

Complying with the committee work programme, this document is to promote the formulation of the new AIS Guideline and provide references for the Committee.

## Related documents

1. IALA committee work programme (2023-2027)
2. ARM17-12.1 Report of ARM17
3. ARM18-12.1 Report of ARM18
4. ARM19-12.1 Report of ARM19
5. IALA Recommendation R0143 Provision of Virtual Aids to Navigation
6. IALA Guideline G1081 Provision of Virtual Marine Aids to Navigation
7. IALA Guideline G1062 The Establishment of AIS as an AtoN
8. ARM new AIS Guideline draft

# Background

The IALA work programme 2023-2027 requires the ARM Committee to comprehensively review A-126, G1084 and other AIS associated documentation to form a simplified version of the AIS document. ARM18 has clarified the direction of AIS document revision and proposed to prepare a single overarching AIS recommendation and one new Guideline. ARM19 has completed the a new draft AIS recommendation and parts of the new draft AIS Guideline. However, the relevant contents and annexes of the new Guideline still need to be supplemented and improved.

# Discussion

## Preparation of Annex “Virtual AIS AtoN” to the new AIS guideline

In the Guideline draft, Chapter 3 mainly introduces the physical, synthetic and virtual AIS AtoN. The specific content of virtual AIS AtoN is included as the annex “Virtual AIS AtoN”. R0143 “Provision of Virtual Aids to Navigation” provides a general description of virtual AtoN. The annex A of G1062 “The Establishment of AIS as an AtoN” gives some function description. G1081 “Provision of Virtual Marine Aids to Navigation” mainly involves the definition, application, technical deployment, supervision, delivery methods, risks and limitations. The above documents are the basis to form the annex “Virtual AIS AtoN”. China MSA has sorted out R0143, G1081 and G1062, combining with the practical application of virtual AIS AtoN, and made the annex “Virtual AIS AtoN” of the new AIS Guideline.

The annex “Virtual AIS AtoN” is divided into four parts, including “General consideration” “Technical deployment” “Delivery method” and “Risks and limitations”. The first part “General consideration” introduces the function, advantages and notices. The second part “Technical deployment” elaborates on the naming rules, regional representation, quantity restriction, repeated broadcasting, reporting interval and so on. The third part “Delivery method” explores the application scenario, delivery method and display onboard. The fourth part “Risks and limitations” analyses the limitations, risks and the corresponding mitigation measures.

## proposal

It is proposed that the ARM Committee consider the annex to this proposal and incorporate them into the new AIS Guideline as appropriate.

# References

1. IALA Recommendation R0143 Provision of Virtual Aids to Navigation
2. IALA Guideline G1081 Provision of Virtual Marine Aids to Navigation
3. IALA Guideline G1062 The Establishment of AIS as an AtoN
4. ARM new AIS Guideline draft

# Action requested of the Committee

The Committee is requested to:

1. consider the proposal in section 3.2；and
2. take actions as appropriate.