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| IALA Standard |

1030

Radionavigation Services

Edition 1.0

June 2018

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# INTRODUCTION

IALA publishes Standards, Recommendations, and Guidelines for the global harmonisation of the provision, maintenance, and operation of marine aids to navigation, to foster the safe, economic, and efficient movement of vessels, and for the protection of the environment. same comments as for previous.

They are defined as follows.

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| Document | **Definition** |
| IALA Standards | IALA Standards form a framework, implementation of which by all coastal states will harmonize marine aids to navigation worldwide. IALA standards cover technology and services and are non-mandatory. |
| IALA Recommendations | IALA Recommendations specify what practices shall be carried out in order to comply with a Recommendation, and may be referenced, in full or in part, in an IALA Standard. |
| IALA Guidelines | IALA Guidelines describe how to implement practices normally specified in a Recommendation. |

# PURPOSE

The IALA Strategic Vision for the period 2014-2026, adopted by the General Assembly in 2014, had two Goals, the first of which is to

“Ensure that aids to navigation systems and related services, including e-Navigation, Vessel Traffic Services, and emerging technologies, are harmonized through international cooperation and the provision of standards.”

IALA Standards are suitable for direct citation by States in the interest of an efficient and harmonised global network of aids to navigation and services.

# APPLICATION

This Standard is suitable for implementation by all marine aids to navigation authorities.

# SCOPE

IALA Standards may contain Normative and Informative provisions.

Normative provisions are those with which it is necessary to conform in order to claim compliance with the Standard.

Informative provisions are those which specify additional desirable practices but with which it is not necessary to conform in order to claim compliance with the Standard.

This Standard references Normative and Informative provisions, detailed in the listed IALA Recommendations, covering the following scope.

Satellite systems for positioning and timing reorder as per table, keep same labels

noting the link between terrestrial support for augmentation of satellite, recommend only have 'systems for positioning and timing'

Include AIS references?? - AIS uses radio frequencies... Also VDES??

Terrestrial systems for positioning and timing DGNSS is a terrestrial system (augmentation ) for positioning and timing.

* Racon and radar positioning
* In the list of areas covered by the standard, “Terrestrial position augmentation services (DGNSS)” is written.  This would not allow for SBAS to be included, so we suggest making this “Augmentation Services (DGNSS)”.   Also, the Standards scheme (below) includes reference to “Racon & Radar” within the Terrestrial positioning and timing box and also as a box in its own – Mike Card is aware of this and I understand it’s been addressed, but we need to make sure the scope section of the Standard is consistent.

Terrestrial positioning augmentation services (DGNSS) within the Terrestrial positioning and timing box and also as a box in its own – Mike Card is aware of this and I understand it’s been addressed, but we need to make sure the scope section of the Standard is consistent.

# REFERENCED DOCUMENTS

In this Standard, any reference to a Recommendation is to the most recent version approved by the IALA Council.

In this Standard the word ‘shall’ is used to indicate that a provision is Normative and so is to be followed in order to comply with the standard. The word ‘should’ introduces Informative provisions.

The following Recommendations are **Normative** provisions, and **shall** be observed if compliance with this Standard is claimed.

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| **Scope** | **Number** | **Title** |
| **Racon and radar positioning** | R-101 | Marine Radar Beacons (racons) |
| **Terrestrial augmentation services (DGNSS)** | R-115 | The Provision Of Maritime Radionavigation Services In The Frequency Band 283.5-315 kHz In Region 1 and 285-325 kHz In Region 2 And 3 |
| R-121 | The Performance and Monitoring of DGNSS Services in the Frequency Band 283.5 - 325 kHz |

The following Recommendations are **Informative** provisions and **should** be observed if compliance with this Standard is claimed.

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| **Scope** | **Number** | **Title** |
| **Racon and radar positioning** | e-NAV 146 | Strategy for Maintaining Racon Service Capability |
| **Terrestrial augmentation services (DGNSS)** | R-129 | GNSS Vulnerability and Mitigation Measures |
| scope text not included  Move DGNSS to terrestrial  No satellite in the scope | R-135 | The Future of DGNSS |

The new Recommendation on  “DGNSS service provision, upgrades and future uses” (R-150) should be referenced in place of R-115 which will be retired in due course.

A new eLoran Recommendation is being proposed at ENAV20 – depending on outcome this may need to be included too.

This lead to a discussion around how the list of Recommendations could become out of date shortly after approval.  Will PAP/Secretariat maintain a current draft between conferences?

The section makes reference to Recommendations but includes “e-NAV 146” in the second table – should this document become a Recommendation?

# SUPPLEMENTARY ELEMENTS

There are no supplementary elements to this Standard. Offline check to see if there are any other IALA recommendations that should be referenced.

# ADOPTION OF AND AMENDMENT OF STANDARDS

IALA Standards may be adopted or amended by a majority vote at a General Assembly of national members.

# DOCUMENT HISTORY

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| **Date** | **Amendment Details** | **Approval** |
| 2018-06-01 | First issue | General Assembly Resolution, Incheon, Korea, May 2018. |

Would it make sense for the WG to provide an indication as to whether it felt any new Recommendation should be normative or informative at the time of writing.  Accepting the decision is made elsewhere, it could be useful to inform that decision.  If so, some guidance from PAP could be useful here.

