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Technical Domain / Task Number 2 …………………………………

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Declaration of SouthPAN’s early Open Services

# Summary

This paper serves as a cover note to the attached declaration. The latter provides service provider and service provision information on SouthPAN, a Satellite-Based Augmentation System (SBAS) capability provided by the Australian and New Zealand governments.

This paper also requests ENG’s review and approval of the attached declaration (provided in the IALA template). If approved, it requests the IALA Secretariat to post the declaration on the IALA website.

## Purpose of the document

The ENG Committee is requested to review the attached declaration by Australia and New Zealand.

If approved, then as per IALA Recommendation R1022 Ed 1.0, Provision of GNSS augmentation services for maritime navigation applications, the IALA Secretariat is requested to *“maintain the register of GNSS augmentation services on the IALA website as a living document.”*

## Related documents

IALA Recommendation R 1022 Ed 1.0, Provision of GNSS augmentation services for maritime navigation applications.

# Background

The Southern Positioning Augmentation Network (SouthPAN) is a joint initiative of the Australian and New Zealand Governments that provides Satellite-Based Augmentation System (SBAS) services for Australia and New Zealand. Three early Open Services became available in 2022. More information on SouthPAN can be found at <https://www.ga.gov.au/scientific-topics/positioning-navigation/positioning-australia/about-the-program>.

Geoscience Australia as the Australian Government lead agency, is working in collaboration with Toitū Te Whenua Land Information New Zealand on the development, deployment, and operation of SouthPAN, the first SBAS in the southern hemisphere.

SouthPAN is a Satellite-Based Augmentation System (SBAS) comprised of reference stations, telecommunications infrastructure, computing centres, signal generators, and satellites that provide improved positioning and navigation services in Australia, New Zealand, and its maritime region.

Precise positioning from SouthPAN offers accuracy at as little as 10 centimetres: a significant improvement on previous accuracy of 5 to 10 metres. SouthPAN provides augmented and corrected satellite navigation signals directly from the satellite rather than through a mobile phone. This allows 10 centimetre level accuracy to be available everywhere, overcoming gaps in mobile, internet and radio communications.

Early Open Services became available to users in September 2022. A certified Safety of Life Service is expected to be available from 2028.

# Discussion

Mariners are able to receive a number of GNSS augmentation signals, including some that may not be provided for maritime use. IALA recommends service providers offering services in line with maritime specifications or requirements, provide a declaration to maritime stakeholders confirming the service to be expected.

Considering the type of information required, the simple pro-forma IALA template is being used to convey key information about the service.

# References

1. IALA Recommendation R 1022 Ed 1.0, Provision of GNSS augmentation services for maritime navigation applications.

# Action requested of the Committee

The Committee is requested to:

1. Review and approve the attached declaration on SouthPAN
2. If approved, request the IALA Secretariat to post the information on the IALA website.

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1. Input document number, to be assigned by the Committee Secretary [↑](#footnote-ref-1)
2. Leave open if uncertain [↑](#footnote-ref-2)