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**Twenty Eighth Meeting of the Communications/
Navigation and Surveillance Sub-group (CNS SG/28)
of APANPIRG**

Bangkok, Thailand, 1 – 5 July 2024

**REVIEW REPORT OF THE SIXTH MEETING
OF ICAO ASIA/PACIFIC GBAS/SBAS
IMPLEMENTATION TASK FORCE
(GBAS/SBAS ITF/6)**

(Presented by GBAS/SBAS ITF Co-Chairs)

Introduction

Sixth Meeting of the ICAO GBAS/SBAS Implementation Task Force (GBAS/SBAS ITF/6)

- a) Held on 7 – 9 May 2024, Bangkok, Thailand
- b) 59 participants from 15 States/Administrations, IFALPA and ICAO
- c) Total of seven (7) Working Papers (WPs) and eight (8) Information Papers (IPs)

Discussion

Agenda Item 2: Progress on the Work of Expert Group Constituted to:

- *Draft Guidance Document on Implementation Process for GBAS & SBAS*

Agenda Item 3: Updates on GBAS-SBAS & States' Implementation Status

Agenda Item 4: GNSS Interference and Its Impact to GBAS & SBAS

Agenda Item 5: Review of Action Item List

Progress on the work of Expert Groups

Draft Guidance Document on Implementation Process for GBAS

Outcomes of Expert Group

- a) Multiple rounds of review were conducted through web-meeting and circulation by emails, involving Expert Group members and delegates of States/Administration, for discussion on those consolidated comments/proposed amendments after APAC GBAS/SBAS ITF/5.
- b) Revised version draft guidance document for GBAS Implementation after rounds of review was presented in APAC GBAS/SBAS ITF/6 for final review.
- c) Finalised draft guidance document (Attachment A) for GBAS Implementation to seek approval by CNS SG.



Attachment A
(with Appendix)

Progress on the work of Expert Groups

Draft Guidance Document on Implementation Process for GBAS

Draft Conclusion GBAS-SBAS ITF 06/01 - Draft Guidance Document for Implementation of GBAS in the Asia/Pacific Region (placed as Attachment A)	
What: the draft guidance document for implementation of GBAS in the Asia/Pacific Region developed by the APAC GBAS/SBAS ITF and provided in Attachment A of the Working Paper 02 (WP 02) is ready for endorsement by CNS SG	Expected impact: <input type="checkbox"/> Political / Global <input type="checkbox"/> Inter-regional <input type="checkbox"/> Economic <input type="checkbox"/> Environmental <input checked="" type="checkbox"/> Ops/Technical
Why: To provide guidance to States for the implementation of GBAS	Follow-up: <input type="checkbox"/> Required from States
When: 9 th May 2024	Status: Draft to be adopted by APANPIRG
Who: <input checked="" type="checkbox"/> CNS Sub group <input type="checkbox"/> APAC States <input checked="" type="checkbox"/> ICAO APAC RO <input type="checkbox"/> ICAO HQ <input type="checkbox"/> Other:	

Progress on the work of Expert Groups

Draft Guidance Document on Implementation Process for SBAS

Outcomes of Expert Group

- a) Expert Group met to discuss proposed modifications and address comments raised after APAC GBAS/SBAS ITF/5.
- b) Draft SBAS implementation guidance document has not been matured yet, and still needs further revision.
- c) APAC GBAS/SBAS ITF/6 discussed the way forward to revise and finalise the guidance document with the proposed timeline presented.
- d) It is targeted to finalise the draft guidance document on implementation process for SBAS in GBAS/SBAS ITF/7 meeting for onward referral to seek CNS SG's endorsement.



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Updates from States about GBAS/SBAS Implementation

Two (2) Working Papers (WPs) and six (6) Information Papers (IPs), covering:

- a) Updates on GBAS implementation status and operational experience in Japan, Australia and Malaysia
- b) Updates on SBAS Implementation in Australia, New Zealand, Japan and Republic of Korea
- c) Report of GBAS Proof-Of-Concept Project at Suvarnabhumi International Airport by Japan and Thailand
- d) GBAS Siting Considerations at Changi Airport in Singapore



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GNSS Interference and Its Impact to GBAS & SBAS

Two (2) Working Papers (WPs) and one (1) Information Paper (IP), covering:

- a) ICAO Recommendations and Guidance on GNSS Vulnerability
- b) Experience with the Effect of GNSS Radio Frequency Interference to GBAS Operations in Australia
- c) GNSS RFI Monitoring Service by JCAB in Japan

Tasks in Action List

Review of the status of tasks in the Action List was conducted and the follow-up actions, as well as revised target dates, of outstanding tasks were discussed and deliberated. Following tasks in high priority are still outstanding:

- a) Organize a workshop with airspace users of APAC Region
- b) Organize a specific meeting with APAC regulators interested in GBAS/SBAS
- c) GBAS and SBAS Safety Assessment
- d) GBAS/SBAS Performance Demonstration
- e) Develop SBAS Implementation Guidance Document

Action Required

The meeting is invited to:

- a) Review the Summary Report on the outcome of the GBAS/SBAS ITF/6 Meeting;*
- b) Adopt the draft conclusion stated in Para. 2.2.2 for endorsement by APANPIRG; and*

Draft Conclusion GBAS-SBAS ITF 06/01 -		Draft Guidance Document for Implementation of GBAS in the Asia/Pacific Region (placed as Attachment A)	
What: the draft guidance document for implementation of GBAS in the Asia/Pacific Region developed by the APAC GBAS/SBAS ITF and provided in Attachment A of the Working Paper 02 (WP 02) is ready for endorsement by CNS SG		Expected impact: <input type="checkbox"/> Political / Global <input type="checkbox"/> Inter-regional <input type="checkbox"/> Economic <input type="checkbox"/> Environmental <input checked="" type="checkbox"/> Ops/Technical	
Why: To provide guidance to States for the implementation of GBAS		Follow-up: <input type="checkbox"/> Required from States	
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- d) Discuss any relevant matters as appropriate.*



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