



*International Civil Aviation Organization*

**FIRST MEETING OF THE SURVEILLANCE IMPLEMENTATION  
COORDINATION GROUP (SURICG/1)**

Bangkok, Thailand, 21 - 22 April 2016

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**Agenda Item 4: Review of the TOR of SURICG**

**TERMS OF REFERENCE OF SURICG**

(Presented by the Secretariat)

**SUMMARY**

This paper presents the Terms of Reference of the SURICG for review.

**1. Introduction**

1.1 APANPIRG/26 meeting held from 7-10 September 2015 in Bangkok reviewed and agreed to the draft Terms of Reference for a broader “Surveillance Implementation Coordination Group (SURICG)” and adopted following Decision:

**Decision APANPIRG/26/45 – Surveillance Implementation Coordination Group**

That, the Surveillance Implementation Coordination Group (SURICG) be established with Terms of Reference provided in **Appendix K** to WP/9.

1.2 It was also suggested that SEA/BOB ADS-B WG which currently reports to ADS-B SITF would report to APANPIRG through SURICG from 2017 onwards.

**2. Discussion**

2.1 Noting the reorganization of APANPIRG structure and the revised Terms of Terms of the Sub Groups, APANPIRG considered **it necessary for the Sub group to review the structure of its Working Groups and Task Forces and their Terms of Reference**. Accordingly, APANPIRG adopted the following Decision.

**Decision APANPIRG/26/66 - Review Terms of Reference of Contributory Bodies under the APANPIRG Sub Groups**

That, the Secretariat, in consultation with Chairs of the existing Task Forces and Working Groups under the APANPIRG Sub Groups, reviews the TOR as necessary, and submits to the respective Sub Groups and APANPIRG/27 for further review and adoption.

2.2 APANPIRG Contributory Bodies Review Task Force (ABSRTF) also agreed to the concept of the project management principles to promote a more project-management-driven approach to regional air navigation planning and implementation, which is guided by and aligned with regional priorities and the Global Air Navigation Plan/ASBU strategy. This proposal would be included in the APANPIRG's handbook.

2.3 The Terms of Reference of SURICG adopted by APANPIRG/26 is provided in Attachment to this paper for review by this meeting.

### **3. Action by the Meeting**

3.1 The meeting is expected to review the Terms of Reference and tasks of the SURICG.

3.2 The meeting is invited to note that the concept of the project management principles to promote a more project-management-driven approach to regional air navigation planning and implementation is being introduced to the contributory bodies of APANPIRG.

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**TERMS OF REFERENCE OF  
SURVEILLANCE IMPLEMENTATION COORDINATION GROUP (SURICG)**

Consists of objectives and deliverables as follows:

**The Objectives of the SURICG are to:**

- 1) *Ensure continuous and coherent development of the Surveillance parts of the Asia/Pacific Regional Air Navigation Plan (APAC ANP) in a manner that is harmonized with adjacent regions, consistent with ICAO SARPs, the Global Air Navigation Plan and the Global Aviation Safety Plan;*
- 2) *Facilitate the implementation of Surveillance systems and services identified in the Aviation System Block Upgrades (ASBU) modules, APAC ANP, and Asia/Pacific Seamless ATM Plan elements using the project management principles where appropriate; and*
- 3) *Review, identify and address major issues in technical, operational, safety and regulatory aspects to facilitate the implementation or provision of efficient Surveillance services in the Asia and Pacific Regions.*

**Deliverables to meet the Objectives:**

- 1) *Progress report to be submitted to CNS SG addressing the SURICG deliverables (listed in 2 to 11 below);*
- 2) *Surveillance parts of the APAC ANP to be reviewed and aligned with work programme of States and, as necessary, amendment proposals prepared to update the APAC ANP to reflect changes in the operational and global requirements;*
- 3) *To review the outcome of the Surveillance Panel, AN-Conf, APANPIRG and CNS SG related to surveillance, revise and update a tasks list and action items for the SURICG and formulate relevant Working Groups to work on those tasks / action items;*
- 4) *To develop regional targets/metrics for planning, implementation, measurement and monitoring of Surveillance systems and services;*
- 5) *To review and update the Surveillance Strategy by considering currently available and emerging technologies with respect to concept of operations, relative costing, technical and operational performance and maturity of alternative technology/solutions such as primary, secondary radar including Mode-S, ADS-B, multilateration, ADS-C, multi-static radar;*
- 6) *To study and identify applicable multilateration applications in the Asia and Pacific Regions considering:*
  - *Concept of use/operation*
  - *Required site and network architecture*
  - *Expected surveillance coverage*
  - *Cost of system*
  - *Recommended separation minimums*

- 7) *To study and identify applicable Mode S radar applications in the Asia and Pacific Regions considering:*
- *Concept of use/operation*
  - *Required site and network architecture*
  - *Expected surveillance coverage*
  - *Cost of system*
  - *Matching functionality required in ATC automation system*
- 8) *To develop an implementation plan for near term ADS-B applications in the Asia and Pacific Regions including implementation target dates taking into account:*
- *available equipment standards*
  - *readiness of airspace users and ATS providers*
  - *identifying sub-regional areas (FIRs) where there is a positive cost/benefit for near-term implementation of ADS-B OUT; and*
  - *developing a standardised and systematic task-list approach to ADS-B OUT implementation.*
  - *the use of Enhanced MODE S data (DAPS) from ADS-B applications including the interrogation of DAPS by ADS-B systems (not Multilateration)*
- 9) *To coordinate ADS-B implementation plan and concept of operations with other ICAO regions where ADS-B implementation is going on and with relevant external bodies such as EUROCONTROL, EUROCAE, RTCA and Industry;*
- 10) *To encourage research and development, trials and demonstrations in the field of Surveillance and other relevant areas, and, as necessary, steer for the sharing of this information and expertise between States through organizing educational seminars, providing guidance materials to educate States and airspace users;*
- 11) *To support the ICAO in making specific recommendations, developing guidance materials, aimed at improving the Surveillance services by the use of existing and/or new procedures, facilities and technologies; and*
- 12) *Draft Conclusions and Decisions to be formulated relating to matters in the field of Surveillance that come within the scope of the APANPIRG or CNS Sub-group work plan.*

*[Note: The Implementation Coordination Group, while undertaking the tasks, should take into account of the work being undertaken by SAS, Surveillance Panels with a view to avoid any duplication.*

*The Implementation Coordination Group will report to CNS Sub-group and CNS Sub-group will coordinate with ATM Sub-group.]*

**Membership:**

*All APAC member States/Administrations providing air navigation services in the Asia and Pacific Regions.*

*The Implementation Coordination Group shall normally invite representatives of International Organizations recognized by the ICAO Council as representing important civil aviation interests to participate in its work in a consultative capacity.*

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