

**THE 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) priority modules (B0-ASUR and B0-TBO), APAC ANP, and Asia/Pacific Seamless ATM Plan elements using the project management principles where appropriate;*
- 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 SUR/ICG 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 SUR/ICG 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 technologies with respect to concept of operations, relative costing, technical and operational performance and maturity of alternative technology/solutions (primary, secondary radar including Mode-S, ADS-B, multilateration, ADS-C);*
- 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; and*
 - *If multilateration can be successfully integrated into an ADS-B OUT-system for air traffic control.*
- 7) *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.*
- 8) *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;*
- 9) *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;*
- 10) *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;*
- 11) *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 should report to the CNS Sub-group and CNS Sub-group will coordinate with the 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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