



# ICAO

*International Civil Aviation Organization*

## THE THIRTIETH MEETING OF THE COMMUNICATIONS / NAVIGATION AND SURVEILLANCE SUB-GROUP (CNS SG/30) OF APANPIRG

*Bangkok, Thailand, 06 - 10 July 2026*

### Agenda Item 9: Cybersecurity/Information Security of CNS/ATM systems

#### 9.3. Other Cybersecurity/Information Security related matters

#### UPDATES FROM ANSIA TF AD-HOC GROUP

(Presented by Secretariat)

#### SUMMARY

This paper presents updates on the tasks accomplished by the ANSIA TF Ad-hoc group for meeting information.

### 1. INTRODUCTION

1.1 The First Meeting of the ANS Information Assurance (ANSIA) Task Force (ANSIA TF/1) was held from **28 – 30 January 2026** in the ICAO APAC Regional Office, Bangkok, Thailand. The ANSIA TF/1 Meeting was attended by **44** participants from **12** Member States/Administrations and **2** International Organizations. The Meeting report, working papers, information papers, and other resources can be accessed by the following link:

<https://www.icao.int/APAC/meetingdocs?fid=27228>

1.2 The ANSIA TF/1 Meeting drafted the Terms of Reference (ToR) of the ANSIA TF for CNS SG/30 consideration. Meanwhile, to progress on the tasks, the **ANSIA TF Ad-hoc group** was formed. This paper presents progress on the task assigned to the ANSIA TF Ad-hoc group.

### 2. DISCUSSION

2.1. The ANSIA TF/1 Meeting agreed to divide the work of ANSIA TF into three work packages as follows:

1. Scoping the regional trust framework
2. Developing PKI and governance arrangements
3. Selecting use cases of regional interest

2.2. It was agreed that each of these work packages needs a Statement of Work (SOW) to be elaborated with a scope statement, associated tasks, expected deliverables and proposed timelines. The ANSIA TF/1 Meeting requested volunteer States to participate in each work package. The following Member States volunteered to contribute to each work package:

| SN | Work Package                         | Volunteer States                                  | Work Package Lead |
|----|--------------------------------------|---------------------------------------------------|-------------------|
| 1. | Scoping the regional trust framework | China, Fiji, India, Japan, Malaysia, Philippines, | Singapore         |

|    |                                            |                                                                                    |               |
|----|--------------------------------------------|------------------------------------------------------------------------------------|---------------|
|    |                                            | Singapore, Thailand, Tonga and the UNITED STATES                                   |               |
| 2. | Developing PKI and governance arrangements | Fiji, India, Japan, Philippines, Singapore, Thailand, Tonga and the UNITED STATES  | United States |
| 3. | Selecting use cases of regional interest   | Fiji, India, Japan, Philippines, Singapore, Thailand, Tonga, and the United States | India         |

2.3. It was agreed that ANSIA TF/1, along with nominated experts from all States for ANSIA TF, will continue to meet quarterly, conducting online Meetings to progress on the SOW for all three work packages. It was expected that **by the next In-person Meeting in 2027, a mature SOW would be drafted and presented to ANSIA TF/2 for adoption.**

2.4. It was concluded that all three work package participants should meet together in one online Meeting and share progress on the work with each other, as all three packages are interrelated. These arrangements will also be efficient and effective. It was also agreed that the first online Meeting will be conducted in mid-May 2026.

2.5. It was suggested that all three groups initiate drafting the scope statement for their Statement of Work as soon as possible, preferably before the end of February 2026. Once the scope statement is finalised, the group can discuss tasks, deliverables, and other required details via email. It was also suggested that each work package lead may hold additional online Meetings with their work package participants as needed to advance the discussion. However, during the quarterly Meeting, all three work package groups should meet together.

2.6. The first online meeting of the ANSIA TF Ad-hoc group was held online on **14 May 2026**. All three work package leads presented the drafted Statement of Work (SOW) for their work package. The presented SOW is provided in **Appendix A** to this paper.

2.7. The online meeting also updated the nominated experts from States. The latest list of nominated experts for each work package is provided in **Appendix B**.

2.8. For the way forward, Work package 1 lead suggested sharing progress on the work, along with detailed scoping of work for work package 1, in the next meeting.

2.9. Work package 2 lead shared the plan to continue gathering requirements and dependencies for work package 2. Further updates will be shared in the next meeting.

2.10. The Work Package 3 lead presented a plan to conduct a survey among ad hoc group participants to gather sufficient data for developing a prioritised list of use cases. Additionally, information was shared about a proposed proof-of-concept at the national level. However, it was noted that, due to the complexity of the task, this activity may experience delays.

2.11. Singapore suggested considering three cybersecurity related documents namely Doc 10090 — ATN/IPS Security Services, defining security services applicable to ATN/IPS, Doc 10095 — IPS Public Key Infrastructure (PKI) Certificate Policy, defining certificate usage and trust relationships for IPS and Doc 10145 — IPS Risk Assessment, used for risk assessment in the context of ATN/IPS in defining scope of work for work package 3. India accepted the request. India will update the SOW of WP3 based on this feedback.

2.12. The next ANSIA TF Ad-hoc meeting will be held on **16 September 2026**.

**3. ACTION BY THE MEETING**

3.1 The Meeting is invited to:

- a) note the information contained in this paper; and
- b) review the progress of the work accomplished by the ANSIA TF Ad-hoc group and provide advice for further improvement; and
- c) discuss any other matters as appropriate.

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## Statement of Work

### Task 1 Scoping of Regional Trust Framework

Task Manager: Mr. Elvin Liow, Singapore

|                           |                                                       |
|---------------------------|-------------------------------------------------------|
| Project: ANSIA Task Force |                                                       |
| Revision number: 01       | Approved: <a href="#">Click here to enter a date.</a> |

#### Objective and scope of the task

- Determine overall implementation scope for regional Trust Framework
  - Phased approach with corresponding deliverables
- Education and promotion of the Trust Framework Concept
- Monitoring of relevant ICAO HQ Panels
  - Trust Framework Panel (TFP)
  - Cybersecurity Panel (CYSECP)
- Informing outcomes of ANSIA TF to HQ panels

#### Deliverables

- Regional Trust Framework Scope Document
  - Scope of work
    - Operational Scope
    - Technical Scope
    - Governance Scope
  - Timeline of work
- Self-Assessment Template
  - Evaluation of requirements and needs of Trust Framework
  - Regional Certificate Policy (CP) to Aviation Common Certificate Policy (ACCP) mappings
  - Regional Information Security Management Systems (ISMS) to Manual for Aviation Information Security (MAIS) mappings.
- Trust Framework Instance (TFI) implementation deliverables
  - TFI Agreement
  - Stakeholder Matrix
  - Trust Governance Authority (TGA) charter
  - TFI options analysis
- Communication package for APAC Trust Framework Instance implementation

#### Milestones

- Completion of self-assessment template by APAC states
- Development of the Regional Trust Framework Scope Document
- TFI implementation deliverables completed
- Commencement of trial Regional TFI implementation
- Commencement of Regional TFI Implementation

#### Dependencies

- Dependencies with projects supervised by different contributory bodies under APANPIRG:
  - Groups that have use-cases identified by the TFP Considerations Working Group
  - Groups that have use-cases identified by WP3 – Selecting use cases of regional interests



- Dependencies with projects supervised by the CNS SG (Other subgroups and contributory bodies will be considered at a later stage):
  - CRV OG
  - SWIM TF
- Dependencies between tasks in the project (will be controlled by the Task Force):
  - WP 2 – Developing PKI and governance arrangements
  - WP 3 – Selecting use cases of regional interest
- Other dependencies
  - SARPS, PANS & Guidance materials from the following panels
    - TFP
      - Doc 10169 – ACCP
      - Doc 10204 – MAIS
      - Doc XXXXX – Manual for Trust Frameworks (TFM)
    - CYSECP

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### **Working arrangements**

☐ Face-to-face meetings

☒ Web conferences

☐ Needs an ICAO secured portal, name: [Click here to enter text.](#)

☒ Other: E-mail

**Statement of Work****Work Package 2- Developing PKI and governance arrangements****Work Package Lead: Mr Robert Segers, US**

|                                  |                                                              |
|----------------------------------|--------------------------------------------------------------|
| <b>Project: ANSIA Task Force</b> |                                                              |
| <b>Revision number: 1.0</b>      | <b>Approved:</b> <a href="#">Click here to enter a date.</a> |

**Objective and scope of the project**

Define the technical and governance requirements that are needed to define an agreement to establish a PKI-based Trust Framework:

- Determine the Public Key Infrastructure (PKI) hierarchy for the regional trust framework and the limitations.
- Determine the Certificate Policy (CP) mapping requirements
- Determine the technical requirements for the Trust Validation Anchor (Trust List, Bridge CA)
- Determine the audit frequency and the audit standard for the participant CA's
- Determine the requirements for the audit attestation for the participant CA's
- Determine the charter of the Trust Governance Authority (TGA)
- Determine the representation of the participants of the TGA
- Determine the TGA procedures

**Deliverables**

- TFI agreement
  - Assumptions
  - CP mapping requirements
  - Audit agreement
  - TVA commitment
  - TGA Scope
- TGA Charter
- TGA procedures
- PKI architecture
- TVA requirements
- CP mapping procedure

**Milestones**

- Draft TFI Agreement established
- TFI Agreement reviewed and adjudicated
- Draft TGA Charter established
- TGA Charter reviewed and adjudicated
- Draft TGA Procedures established
- TGA Procedures reviewed and adjudicated
- Draft PKI Architecture established
- PKI Architecture reviewed and adjudicated

**Dependencies**

- Dependencies with projects supervised by different SG (will be controlled by APANPIRG):
  - PKI hierarchy, participants and TVA selection depends on WP 1 and 3
  - Certificate profiles will depend WP 3
- Other dependencies



- IMP
- TFP

## Task participants

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### **Working arrangements**

- ☐ Face-to-face meetings
- ☒ Web conferences
- ☐ Needs an ICAO secured portal, name: [Click here to enter text.](#)
- ☒ Other: E-mail

**Statement of Work****Work Package 3- Selecting use cases of regional interest****Work Package Lead: Mr Prateek Chanda, India**

|                                  |                                                              |
|----------------------------------|--------------------------------------------------------------|
| <b>Project: ANSIA Task Force</b> |                                                              |
| <b>Revision number: 01</b>       | <b>Approved:</b> <a href="#">Click here to enter a date.</a> |

**Objective and scope of the project**

- Identify, assess, and prioritize potential use cases for implementing Trust Framework Instances across the APAC region.
- Select a focused set of regional use cases that demonstrate practical value, operational relevance, and feasibility for phased implementation.
- Ensure the selected use cases support current and future operational requirements, including but not limited to SWIM-related information exchange.
- Ensure the proposed use cases promote secure cross-border interoperability among aviation stakeholders, including States, Administrations, and relevant international organizations.
- Define selection criteria and evaluation parameters for ranking use cases based on regional interest, security benefit, implementation readiness, and dependency on trust services and governance arrangements..

**Deliverables**

- A list of potential regional use cases proposed by participating States and organizations.
- Agreed selection criteria and evaluation matrix.
- Priority list of selected use cases in order of early pilot / proof-of-concept potential.
- Technical feasibility and dependency assessment for each selected use case.
- Recommended roadmap for step-by-step implementation and Schedule

**Milestones**

- Circulate a survey or call for potential use cases across APAC States and relevant stakeholders.
- Compile and review submissions against the agreed selection criteria.
- Prepare a draft technical feasibility and Intra-regional dependency matrix.
- Rank and validate the shortlisted use cases with participating States.
- Finalize and submit the approved regional use cases document to the ANSIA Task Force

**Dependencies**

- Dependencies with projects supervised by different SG (will be controlled by APANPIRG):
  - Coordination with relevant APANPIRG contributory bodies to achieve alignment with broader regional initiatives.
  - Interdependence with ANSIA TF Work Package 1 (Scoping the regional trust framework) and Work Package 2 (Developing PKI and governance arrangements).
- Other dependencies
  - IMP (Information Management Panel)
  - TFP (Trust Framework Panel)
  - CYSECP (Cybersecurity Panel)

### Task participants

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**Working arrangements**

- ☐ Face-to-face meetings
- ☒ Web conferences
- ☐ Needs an ICAO secured portal, name: [Click here to enter text.](#)
- ☒ Other: E-mail

| Work Package 1 - Scoping the regional trust framework |           |                            |                                                                                                                  |                                                                                        |         |
|-------------------------------------------------------|-----------|----------------------------|------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|---------|
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| SN | STATES        | Name                                         | TITLE/ORGANIZATION                                                                                              | E-MAIL                                                                                | REMARKS                               |
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| Work Package 2 - Developing PKI and governance arrangements |               |                            |                                                                                                                  |                                                                                          |         |
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| Work Package 3 - Selecting use cases of regional interest |        |                            |                                                                                                                  |                                                                                          |         |
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| SN | STATES      | Name                          | TITLE/ORGANIZATION                                                                                              | E-MAIL                                                                       | REMARKS |
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