

# The Collaboration Plan to Step up ANS Capacity and Capabilities



**The First Work Stream  
(WS1)**



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## Introduction

The inaugural APAC ANSP Committee (AAC) meeting adopted a framework to organize the work of the Committee into **four work streams**, each focusing on an area of priority.

The first work stream (**WS1**) area of priority is **“Step up investments in ANS capacity and capabilities and share requirements and best practices in the procurement of ANS systems”**.

Focusing on the aims and objective of the work stream, WS1 drafted the planned tasks, which had been approved in the online AAC meeting on June 15<sup>th</sup>.



## Tasks of Work Stream 1

Number	Description	Lead	Participants	Priority	Deliverable	Target date
1	To formulate a scheme of collaboration on capacity building and technical assistance among ANSPs.	China, Singapore	ANSPs	H	A collaboration plan to work with ICAO APAC Regional Office to provide training (e.g installation and data exchanges) and technical assistance (e.g equipment spares)	2023
2	To handle capacity building and technical assistance among ANSPs.	China, Singapore	ANSPs	H	A programme involving ANSPs or experts to provide the training and/or assistance according to the collaboration plan	Start from 2023
3	To explore new technology in facilitating regional ANS modernization, with the involvement of ATM technology industry.	Singapore, Thailand	ANSPs, ATM technology industry	M	Recommendation of new technology to be applied in ANS for the APAC region.	Start from 2023
4	To create collaborative platforms in new technology for cross-border trials, to facilitate regional ANS modernization, with the involvement of ATM technology industry.	China, Thailand	ANSPs, ATM technology industry	M	A platform in new technology for cross-border trials.	Start from 2023
5	To gather ANSPs needs and plans for ANS systems digitalization/modernization and explore the feasibility and requirements.	China, Singapore	ANSPs	H	A living document, capturing state/administration plans and status for ANS system digitalization/modernization.	Start from 2023
6	To collaborate to organize an APAC Innovation and Capacity Building Symposium to build capacity and promulgate innovative technologies for ANS digitalization.	APAC Regional Office, Hong Kong China	ANSPs	H	A symposium.	2023
7	To encourage ANSPs to share experiences and best practices in ANS systems planning, procurement, implementation, maintenance and whole-life management.	APAC Regional Office, Thailand	ANSPs	M	ANSPs in the AAC to share their experience from system implementation in subsequent AAC forums and/or other relevant meetings or forums	Start from 2023
8	To draft a common ANS system procurement checklist for ANSP consideration in APAC region.	China, Singapore	ANSPs	M	A guiding checklist for ANS system procurement with established review cycle to maintain its relevance to current ANS requirements	Start from 2023
9	To take stock on the guidance materials available from ICAO APAC and CANSO related to ANS systems, and consolidate a library of guidance materials with classification, that could facilitate ANSPs to make reference in their planning, procurement and implementation of ANS systems.	APAC Regional Office, Hong Kong China	ANSPs	M	An e-library of guidance materials with classification.	2024

## The Collaboration Plan

Out of the 9 tasks of WS1, the **first task** has been set as **high priority** with a delivery targeted by of this year. The deliverable is **a collaboration plan** to work with ICAO APAC Regional Office to provide **training and technical assistance through programmes** involving ANSPs and their experts.

China and Singapore took the lead and worked closely with each other to complete the drafting of **the Collaboration Plan**. It had been circulated in WS1 for comments.

**The Collaboration Plan (Version 0.1)** is proposed to be discussed in this meeting, which has been incorporated with the feedbacks from Hong Kong China.

## **Asia-Pacific Air Navigation Service Provider Committee (AAC) Collaboration Plan to Step up Capacity and Capability for ANS Systems**

**By China and Singapore, in collaboration with  
Members of AAC Work Stream 1**

**Version 0.1**

**Date: 28 August 2023**

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# ➤ The Collaboration Plan – Scopes of Collaboration

Focusing on improving personnel's capabilities, and maintaining ANS systems' robustness, availability, and efficiency, the scopes of collaboration are recommended as follows:

## a) **Training of Personnel**

- ✓ ATM/CNS personnel quality and capability are pivotal factors to providing safe, efficient, sustainable, and resilient ANS.
- ✓ ANSPs should continue to commit resources to ensure a steady availability of training courses in the region.
- ✓ ANSPs are encouraged to share their training course in the region, including skills improving, experience sharing, new technology introduction, etc.

# ➤ The Collaboration Plan – Scopes of Collaboration

## b) Technical assistance

- ✓ On-site technical assistance is encouraged among ANSPs as it is a more impactful means for the sharing and transmission of expertise.
- ✓ The pooling of knowledge of experts also paves the way for collective advancement and growth.
- ✓ Technical assistance to ANSPs can include providing on-site support in ANS **systems troubleshooting, data adjustment, flight check, equipment installation**, etc. Concurrently, **secondment of experts** can also be considered.



# ➤ The Collaboration Plan – Scopes of Collaboration

## c) Spare parts support

- ✓ Most life cycles of ANS systems' spans for more than 10 years, production of components and spare parts maybe discontinued when the system is still in service.
- ✓ As ANSPs upgrade their systems, there might be opportunities for ANSPs to share their spare part stockpiles of the decommissioned systems.
- ✓ This sharing enhances resources management and contribute to the solidarity of AAC family.

# ➤ The Collaboration Plan – Scopes of Collaboration

## d) Procurement support

- ✓ Investments in ANS systems are significant capital expenditure and require in-depth knowledge and rigorous studies to find the most cost-effective solutions.
- ✓ ANSPs are encouraged to work together to share requirements and best practices in the procurement of ANS systems.
- ✓ ANSPs are also encouraged to co-ordinate to procure ANS systems together to achieve potential benefits, such as cost savings, smoother integration and avoiding vendor lock-in.

# The Collaboration Plan – Roles of Stakeholders

The successful collaboration relies on the goodwill contributions of 3 main groups of stakeholders.

**a) Asia-Pacific ANSP Committee (AAC)**

- Provide direction and guidance of collaboration scope and implementation.
- Assess offers and requests of ANSPs with the support of secretariat team.
- Monitor and review collaboration progress and accomplishments.

**b) Asia-Pacific ANSPs**

- Provide resources and expertise to support the collaboration plan.
- Request support under the collaboration plan.

**c) ANS System Vendors**

- Provide technical advice and support, where applicable, under the collaboration plan.

# The Collaboration Plan – Implementation Process

## Planned Collaboration Programmes

### **a) Assistance/requests programmes submission**

- The requesting ANSPs are to submit their assistance request(s) with details to the AAC in advance.
- ANSPs planning to offer assistance, such as training course, technical, etc. should furnish the details.
- It is recommended the ANSPs introduce its assistance/requests programmes in the annual AAC meeting, which have been passed evaluated by the assessment team.

### **b) Assistance/requests programmes assessment**

- It is recommended that a secretariat team be set up within the AAC to; collate, preliminarily classify, filter the assistance/requests programmes, and support the AAC in decision making.

### **c) Assistance/requests programmes approval**

- The AAC with assistance from the secretariat team will formulate and endorse the planned collaboration programmes for the coming year.

# ➤ The Collaboration Plan – Implementation Process

## Ad-hoc Collaboration Programmes

- The ad-hoc collaboration programmes are mostly requests for ad-hoc on-site technical assistance or spare parts support.
- Considering the convenience and efficiency, it is encouraged that the requesting ANSP collaborate directly with their desired assisting ANSP and inform AAC.



# ➤ The Collaboration Plan – Summary of Collaboration

## Annual Review

- In order **to conclude and share** the whole-year **collaboration achievements** among ANSPs, it is recommended that **a wrap up** of the collaborations programmes accomplished, including **quantities, experiences and suggestions**, etc. be incorporated into the **agenda in the annual AAC meeting**.
- The wrap up of the collaborations programmes would be valuable for the **assessment of the effectiveness** of the programmes as well as identification of any rooms for enhancement.

### The meeting is invited to:

- Note the progress of the work of the first work stream;
- Discuss the Collaboration Plan (Version 0.1) and provide any recommendation.



Thanks