



ICAO

International Civil Aviation Organization

**Twenty Fifth Meeting of the Communications/
Navigation and Surveillance Sub-group (CNS SG/25) of
APANPIRG**

Video Tele-Conference, 18 – 22 October 2021

Agenda Item 8: Review and updates

8.3 Beijing Declaration implementation related to CNS

UPDATES ON BEIJING DECLARATION IMPLEMENTATION RELATED TO CNS

(Presented by the Secretariat)

SUMMARY

This paper shares information about current status of the Minister's commitment for implementation of technology (CNS) components under Air Navigation Services mentioned in 'Declaration on Asia/Pacific Ministerial Conference on Civil Aviation' also known as Beijing Declaration endorsed in first APAC Ministerial Conference on Civil Aviation in January 2018.

1. INTRODUCTION

1.1 At first ICAO's APAC Ministerial Conference on Civil Aviation held in Beijing in January 2018, the Ministers in charge of civil aviation representing **32** Member States of the APAC Region, **4** Member States (France, Russian Federation, United Kingdom and United States) of other Regions and representatives of **6** international organizations endorsed *Declaration on Asia/Pacific Ministerial Conference on Civil Aviation* also known as the *Beijing Declaration*. The Beijing declaration formalized the Minister's commitments on Aviation Safety, **Air Navigation Services**, Accident Investigation, and Human Resource Development objectives.

1.2 This paper presents the current status of the APAC States' commitments related to CNS Implementation in the field of Air Navigation Services.

1.3 The statistics used in the paper are based on the information provided by APAC Member States in various ICAO APAC contributory body meetings till date.

2. DISCUSSION

2.1 The Ministers' commitment to Air Navigation services defined in Beijing Declaration are as follows:

2.1.1 Commit to implementation by 2022 of the Asia/Pacific Seamless Air Traffic Management (ATM) Plan to enhance ATM capacity and harmonisation in the Region, including a focus on:

(a) Transitioning from Aeronautical Information Service (AIS) to Aeronautical

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Information Management (AIM) System;

(b) Performance Based Navigation (PBN) implementation;

(c) Common ground/ground telecommunication infrastructure to support Air Navigation Services (ANS) applications;

(d) An enhanced level of civil/military cooperation;

(e) Enhanced surveillance capability including Automatic Dependent Surveillance-Broadcast (ADS-B) technology;

(f) Air Traffic Flow Management/Collaborative Decision Making (CDM) implementation for high density airports; and

(g) Air navigation in national planning frameworks such as National Development Plans (NDPs) supported by National Air Navigation Plans.

2.1.2 Promote sharing of best practices in the provision of ANS including Aeronautical Search and Rescue (SAR), Meteorological Services for International Air Navigation (MET) and Air Traffic Flow Management (ATFM) through regional cooperation and enhanced coordination.

2.2 The current status of commitments related to CNS Implementation in the field of Air Navigation Services highlighted in blue font above are provided from next section.

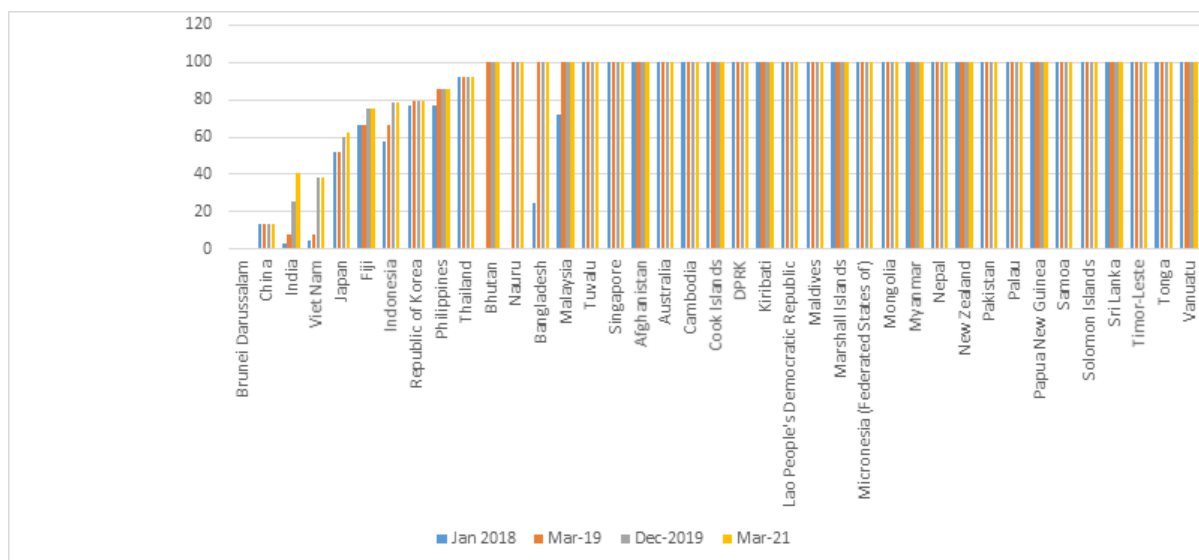
2.3 Performance Based Navigation (PBN)

Commitment: “Commit to implementation by 2022: PBN implementation”

Indicator: Percentage of PBN international runway ends.

Note: *The Assembly Resolution A37-11 requires PBN procedures to be implemented on all IFR runway ends by 2016.*

Source: iSTARS (March 2021)



Current implementation:

In implementation of PBN approach Procedures, APAC Region is behind global implementation. However, in PBN SID/ STAR, APAC region is ahead of global implementation

2.4 Ground telecommunication infrastructure

Commitment: “Commit to implementation by 2022: Common ground/ground telecommunication infrastructure to support ANS applications”

Indicator: Status of connection to Common aeronautical VPN private network (CRV) and Aeronautical Message Handling System (AMHS) with File Transfer Body Parts (FTBP) function for IWXXM data

Source: Eighth Meeting of the Aeronautical Communication Services Implementation Coordination Group (ACSICG/8) Meeting

Current implementation:

Fifteen States/Administrations (compared to eleven last year) have joined CRV and implemented operations: *Australia, Bhutan, China, Hong Kong, China, Fiji, Japan, Malaysia, Nepal, New Zealand, Philippines, PNG, ROK, Singapore and USA* have joined CRV, while 8 cities are planning to join CRV in 2021 which are *Mumbai (India), Jakarta (Indonesia), Makassar (Indonesia), Bangkok (Thailand), Moscow (Russia), Khabarovsk (Russia), New Caledonia, and French Polynesia*. .

2.4 Surveillance capability

Commitment: “Commit to implementation by 2022: Enhanced surveillance capability including ADS- B technology”

Indicator: Number of States providing ADS-B based surveillance service either for separation or situation awareness

Source: Sixth Meeting of the Surveillance Implementation Coordination Group (SURICG/6) Meeting

Current implementation:

31 States/Administrations (compared to 30 last year) installed or in process to install ADS-B ground stations and 12 States issued ADS-B mandate. 8 States used ADS-B for separation and others for awareness, gap filling and redundancy.

3 ACTION BY THE MEETING

3.1 The Meeting is invited to:

- a) note the information provided in the paper; and
- b) collaborate and work towards achieving targets of the Beijing Declaration.
