



ICAO

*International Civil Aviation Organization*

**The Ninth Meeting of the APANPIRG ATM Sub-Group  
(ATM/SG/9)**

Video Teleconference, 01 – 05 November 2021

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**Agenda Item 5: ATM Systems (Modernization, Seamless ATM, CNS, ATFM)**

**IMPLEMENTATION STATUS OF SID/STAR PHRASEOLOGIES**

(Presented by Secretariat)

**SUMMARY**

This paper presents the results from a survey to States associated with the current implementation of New SID/STAR Phraseologies.

**1. INTRODUCTION**

1.1 State Letter AN 13/2.1-16/54 dated 23 June 2016 informed States of the approval of Amendment 7 to ICAO Doc. 4444 – PANS-ATM, applicable from 10 November 2016. The amendment included changes to the provisions for the use of Standard Instrument Departures (SIDs) and Standard Arrival Routes (STARs), particularly with respect to SID and STAR phraseologies.

1.2 State Letter T 3/10.1 – AP087/21 (ATM) dated 12 May 2021 invited Administrations to inform ATM/SG of the current regional implementation status of the SID/STAR Phraseology changes introduced in Amendment 7 to PANS-ATM, and facilitate identification of gaps in the barriers to implementation.

1.3 The circulation of the survey on implementation status addresses Action Item 7/1 of the ATM/SG Task List.

**2. DISCUSSION**

Initial Implementation Planning - Global

2.1 The purpose of the change to SID and STAR phraseology was to:

- provide core phraseology that positively reinforces the continued application of lateral, vertical and speed requirements embedded in a SID or STAR, unless explicitly cancelled or amended by ATC;
- provide additional phraseology that enables the cancellation of any level or speed restrictions, as local circumstances, practice or procedures permit; and
- harmonize the phraseology used to authorize the bypassing of waypoints or amend the lateral profile of SID or STAR.

2.2 State Letter AN13/2.1-16/54, together with other explanatory information on the new SID and STAR phraseology, is available on the ICAO website at:

[http://www.icao.int/airnavigation/sidstar/Pages/CHANGES-TO-SID\\_STAR-PHRA-SEOLOGIES.aspx](http://www.icao.int/airnavigation/sidstar/Pages/CHANGES-TO-SID_STAR-PHRA-SEOLOGIES.aspx)

2.3 The State Letter included an Impact Assessment which indicated an expected implementation time of one year.

2.4 ICAO Headquarters subsequently advised that the *expected implementation time* was a recognition that many States would fail to implement the procedure by the applicability date. However, the Air Navigation Commission considered the urgency of the need for the procedure to be implemented, and determined that the applicability date remain as planned, on 10 November 2016. ICAO HQ noted that, while possibly challenging, the fact that some States had successfully implemented the provisions by the applicability date demonstrated that timely implementation was feasible. The State Letter also informed States that any State failing to implement by the applicability date of 10 November 2016 should publish in their AIP any significant differences between the amended provisions of the PANS-ATM and their national regulations and practices.

#### ATM/SG/5

2.5 The ATM/SG/5 meeting (2017) was informed that there had been very little uptake of the new procedures, and there was a wide variation in phraseology used by different ANSPs. ATM/SG/5 agreed to the following Conclusion:

#### ***Conclusion ATM/SG/5-17: SID/STAR Phraseology***

*That, States are urged to take action to implement the SID/STAR-related phraseology included in Amendment 7 to Doc 4444 – PANS-ATM, ensuring that:*

- 1. Any phraseologies published in AIP are amended to comply with the new Doc 4444 standards relating to SID and STAR phraseologies; and*
- 2. ATC and aircraft operator procedure manuals and training are updated to incorporate the new SID and STAR phraseologies.*

2.6 An informal survey was circulated to all Asia/Pacific Administrations in May 2018, asking whether the SID/STAR-specific phraseology provisions of Amendment 7-A of PANS ATM had been implemented or, if not, when implementation was planned. Few responses were received.

#### ATM/SG/6

2.7 ATM/SG/6 (2018) noted the establishment of the *ICAO SID STAR Implementation Support Team (ISSIST)*, and a range of suggestions received by ISSIST from industry to improve implementation. Information was also provided on the ISSIST Work Program, which was expected to be completed by March 2019.

2.8 A proposed Regional implementation strategy was provided. While not exhaustive, it included a checklist of actions and requirements that should be considered by all Asia/Pacific Administrations that have published, or plan to publish, SIDs and/or STARS in their AIP. The strategy included a proposed Regional implementation date of not later than 07 November 2019.

2.9 The ATM/SG/6 meeting agreed to the following Conclusion:

**Conclusion ATM/SG/6-4: Asia/Pacific Regional SID/STAR Phraseology Implementation Strategy**

*That,*

1. *The Asia/Pacific Regional SID/STAR Phraseology Implementation Strategy at Appendix D to the Report be adopted, and uploaded to the ICAO Asia/Pacific Regional Office Website, together with an Appendix of information on lessons learned, updated on receipt of new information; and*
2. *All Asia/Pacific Administrations respond to a survey on the implementation status of the SID/STAR phraseology, and report final implementation of the phraseology to the ICAO Asia/Pacific Regional Office.*

2.10 In May 2021 a survey of Asia/Pacific implementation of the new SID/STAR phraseology was circulated to 44 States/Administrations. ICAO received a response from 15 States/Administration (approximately 34%):

Australia, Hong Kong China, French Polynesia, India, Indonesia, Japan, Nepal, Pakistan, Papua New Guinea, Philippines, Republic of Korea, Singapore, Sri Lanka, Thailand and United States of America

2.11 The survey responses are provided in **Attachment A**.

2.12 Regional implementation of new SID/STAR Phraseology is summarized as follows:

- 11 Administrations (≈ 27%) have implemented the new SID/STAR Phraseology;  
*Australia, Hong Kong China, French Polynesia, India, Japan, Nepal, Pakistan, Republic of Korea, Singapore, Sri Lanka, Thailand;*
- 3 Administrations (≈ 5%) have partially implemented the new SID/STAR Phraseology;  
*Indonesia, Philippines, USA;*
- 1 Administration (≈ 2%) has planned but not yet implemented the new SID/STAR Phraseology;  
*Papua New Guinea;*
- 29 Administrations (≈ 66%) have not reported any implementation of the new SID/STAR Phraseology; and
- Overall known Regional implementation ≈ 28%.

2.13 Noting the poor response to the survey, and the potentially poor overall implementation of the new phraseologies, ICAO Regional Office will give further consideration to additional actions to encourage compliance.

### **3. ACTION BY THE MEETING**

3.1 The meeting is invited to:

- a) note the information contained in this paper; and
- b) discuss any relevant matters as appropriate.

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## Asia/Pacific implementation of the new SID/STAR phraseology Survey (2021)

Updated 25 October 2021

Name of State/Administration	Implementation Status <i>Implemented</i> <i>NOT Implemented</i> <i>PARTIALLY Implemented</i>	Implementation Date	Remarks/Feedback/Reasons (if delayed)
Australia	Implemented	9-Nov-17	Australia has noted a marked increase in phraseology due to the SID/STAR changes. This is especially in regard to speed restrictions. It is suggested that this aspect of the change be visited during any post-implementation reviews.
Hong Kong, China	Implemented	5-Nov-20	No further comment.
French Polynesia	Implemented	12-Oct-17	The recommended phraseology regarding SID and STAR has been taken in account in the October 12, 2017 phraseology manual and has been applied in French Polynesia since then.
India	Implemented	10-Nov-16	NIL
Indonesia	Partially Implemented	31-Dec-21	Indonesia has been implemented the new SID/STAR phraseology operationally since 2017. Nevertheless, the national regulation to support the implementation is still under amendment process.
Japan	Implemented	10-Nov-16	
Nepal	Implemented	26-May-19	
Pakistan	Implemented	10-Nov-16	
Papua New Guinea	Planned	2-Dec-21	
Philippines	Partially Implemented	20-Mar-20	Implemented Partially in Manila International Airport, Clark International Airport and Mactan International Airport. Other Airports have delayed implementation due to the existing structuring of airspace in their own Terminal Control Areas.
Republic of Korea	Implemented	8-Oct-20	ROK amended the "Air Traffic Control Procedure(Public Notice)" applicable as of 8 October 2020. - The Procedure includes the provisions specified in PANS-ATM Sections 6.3.2.4 and 6.5.2.4.
Singapore	Implemented	Mar-17	
Sri Lanka	Implemented	10-Oct-19	AIRAC AIP SUP 03/19(issued on 15 AUG 2019) ADOPTION OF SID / STAR SPECIFIC PHRASEOLOGY WITHIN COLOMBO FIR EFFECTIVE FROM 0400 UTC, 10 OCT 2019
Thailand	Implemented	18-Jun-20	1. All SIDs/STARs phraseology are implemented for ATS units of international airports in Thailand (VTBS, VTBD, VTBU, VTCC, VTCT, VTSP, VTSM, VTSG, and VTSB). It should be noted that SID/STAR for VTSS and VTPH will be established by 2022. 2. The phraseologies are not published in AIP Thailand, but have been updated in ATC procedure manuals already. 3. ATC trainings have been updated to incorporate the new SID and STAR phraseologies already.
United States of America	Partially Implemented	10-Nov-16	The U.S. Doc 4444 implementation includes documented filing of differences with ICAO for specific phrases which do not match.

State/Administration that did not report the implementation status is Afghanistan, Bangladesh, Bhutan, Brunei Darussalam, Cambodia, China, Macao China, Cook Islands, DPR Korea, Fiji, New Caledonia, Kiribati, Lao PDR, Malaysia, Maldives, Marshall Islands, Micronesia, Mongolia, Myanmar, Nauru, New Zealand, Palau, Samoa, Solomon Islands, Timor-Leste, Tonga, Tuvalu, Vanuatu, and Viet Nam.