



ICAO

*International Civil Aviation Organization***THE ELEVENTH MEETING OF SYSTEM WIDE  
INFORMATION MANAGEMENT TASK FORCE  
(SWIM TF/11)***Bangkok, Thailand, 25 – 29 May 2026*

Agenda Item 7: SWIM Task Force ToR, Programme, Work Plan, and Action Items review  
o SDS schema update

**SWIM DISCOVERY SERVICE JUMP STARTER KIT V2.0**

(Presented by Republic of Korea)

**SUMMARY**

This paper introduces the SDS Jump Starter Kit v2.0 developed by the ROK which is in align with the SDS specification v2.0.0 to contribute the better understanding and the global implementation of the SDS in the APAC region.

**1. INTRODUCTION**

1.1 At the SWIM TF/9, ROK introduced the SWIM Discovery Service (SDS) Jump Starter Kit, which was developed by the ROK and aligned with the SDS specification v1.0 to contribute to a better understanding of and implementation of the SDS in the APAC region.

1.2 The SWIM TF/9 Meeting discussed that the latest version of the SDS implementation specification is v2.0, which was published in March 2024, and questioned whether this new release would impact the SDS Jump Starter Kit. ROK agreed to verify whether differences between SDS implementation specifications v1.0 and v2.0 would result in the update required for the developed SDS Jump Starter Kit and will share finding with the future SWIM TF meeting (**ACTION ITEM 9-13**).

1.3 At the SWIM TF/10, ROK presented Comparison of SWIM Discovery Service (SDS) Implementation Specification between v1.0 and v2.0 (WP/21). The paper compares the differences between SDS implementation specifications v1.0 and v2.0 and provided mapping between service overview and SDM-J v1.0.1/SCDM v3.0

1.4 This paper is to implement **ACTION ITEM 9-13**, ROK developed the SDS Jump Starter Kit v2.0 in align with the SDS specification v2.0.0 as of April 2026 to contribute better understanding and the global implementation of the SDS. This paper introduces the SDS Jump Starter Kit v2.0, specifically intellectual property, system requirements, installation, and usage.

**2. DISCUSSION**

2.1 The SDS Jump Starter Kit v2.0 follows Massachusetts Institute of Technology (MIT) license that is a permissive opensource software license. Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the “Software”), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so.

2.2 The SDS Jump Starter Kit v2.0 is the implementation of the SDS specification v2.0, and it is written in Typescript and operates in NodeJS environment (v. 22.22.2). And the SDS Jump Starter Kit v2.0 adopts the NestJS framework, that is one of the popular framework in the NodeJS environment that is a progressive, extensible, and versatile framework for building efficient, scalable, and enterprise-grade Node.js applications.

2.3 The SDS Jump Starter Kit v2.0 includes sample data in JSON format, which is written down in compliance with SDS-J v2.0.0 and SDS v.2.0.0 schema, and a user could modify sample data located in [/src/smxs/sample] directory.

2.4 Users could explore resources defined in the SDS specification v2.0 as follows:

2.4.1 Discovery Service Resource (/smxs/v2/discovery-service) : A resource that allows a requestor to retrieve a description of a discovery;

2.4.2 Peers Resource (/smxs/v2/peers) : A resource that allows a requestor to retrieve a collection of references;

2.4.3 Services Resource (/smxs/v2/services) : A resource that allows a requestor to retrieve a collection of references;

2.4.4 Service Resource (/smxs/v2/service-description?service-id={service-id}) : A resource that allows a requestor to retrieve information about a specific service.

2.5 The SDS Jump Starter Kit v2.0 is available in the GitHub (<https://github.com/Korea-Airports-Corporation/SWIM-Discovery-Service-Jump-Starter-Kit-v2>). Please find a README.md to explore more.

2.6 The SDS Jump Starter Kit v2.0 currently available in GitHub, as of April 2025, it is the implementation of core capabilities defined in the specification v2.0.0. There would be a continuous update and maintenance of the SDS Jump Starter Kit v2.0 as schema cleaning is in progress and there will be an test based on operational test scenario (e.g., caching or federation).

### **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 matter as appropriate

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