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AVIATION

SWIM Registry Service Upload Guidance

A guide on how to register SWIM service
descriptions/definitions

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Overview

1. Introduction
2. Account Creation
3. Important resources
4. Upload process
5. Validation process
6. Revision/Update of your service
7. Next steps

Intro: Concept

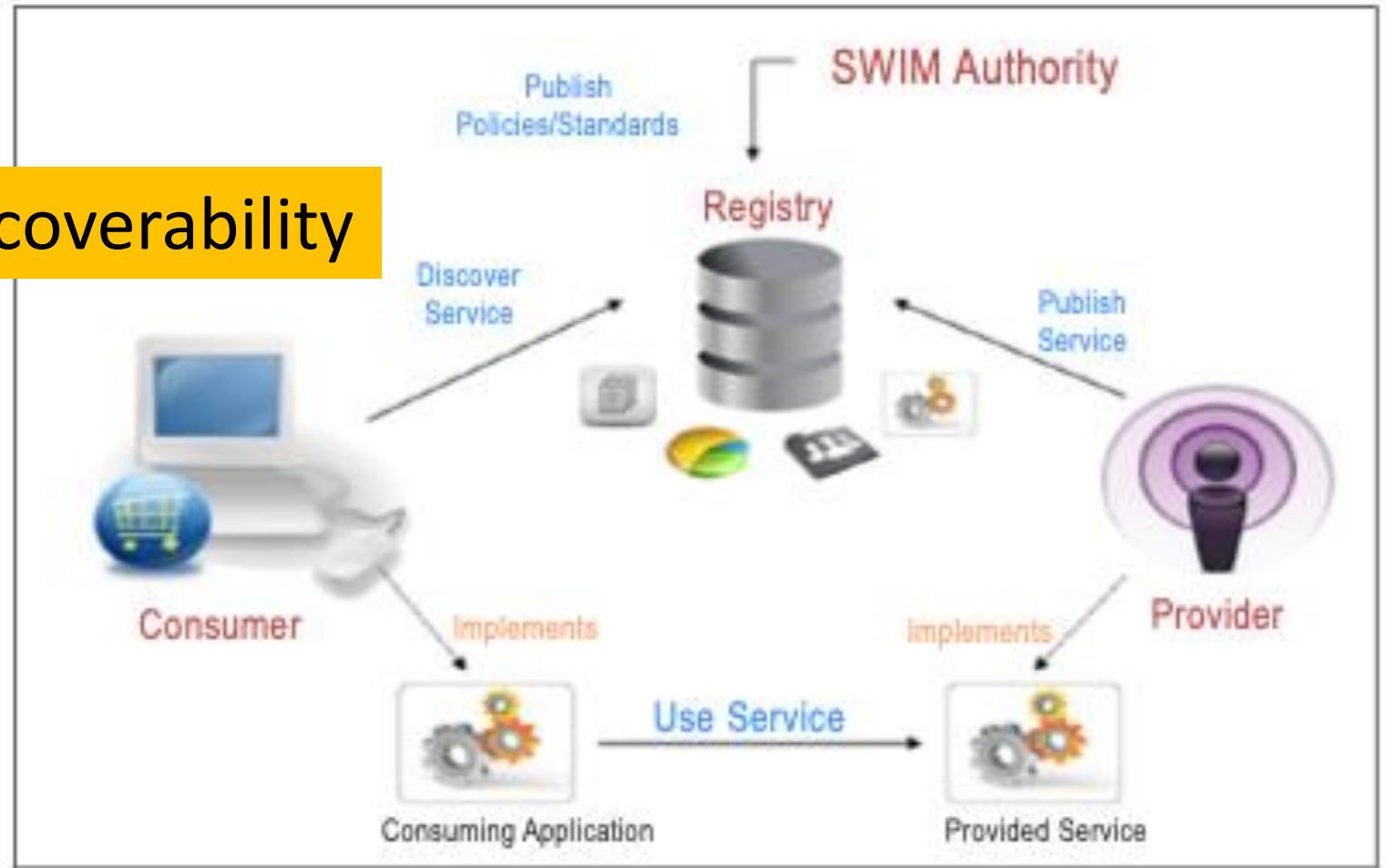
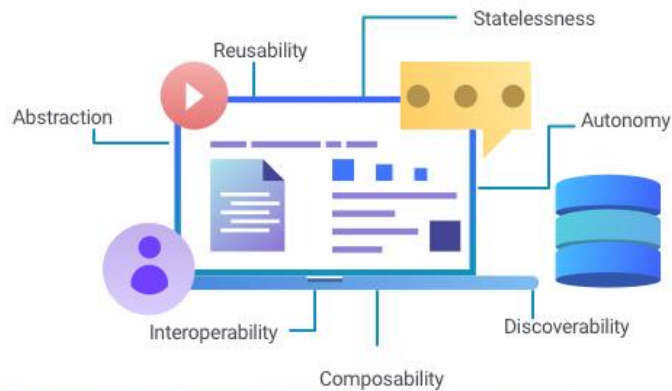
Information Services Discoverability



Doc 10039

Manual on the System-wide Information Management (SWIM) Concept

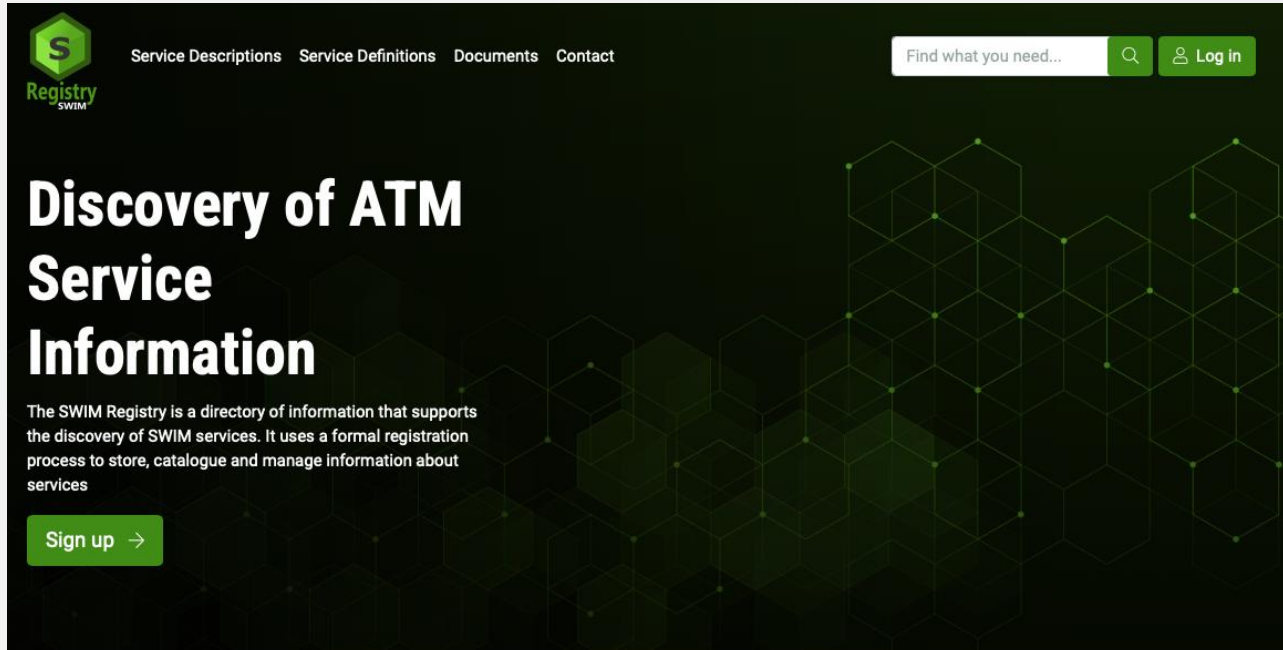
First Edition, 2024



6.5 SWIM REGISTRY

6.5.1 A SWIM registry supports information service discoverability and provides search and filtering functionalities of service overview; it can typically be accessed over the Internet. A SWIM registry provides a registration process that publishes information service overviews in a controlled manner, ensuring that registered overviews satisfy specific requirements (e.g., completeness) and only those authorized can modify the information in the overviews. A SWIM registry is an important and well-defined component in SWIM (see Figure 6-2).

Introduction: SWIM Registry Content



The screenshot shows the SWIM Registry website homepage. At the top left is the logo, a green hexagon with a white 'S' and the text 'Registry SWIM' below it. To the right of the logo are navigation links: 'Service Descriptions', 'Service Definitions', 'Documents', and 'Contact'. Further right is a search bar with the placeholder text 'Find what you need...' and a magnifying glass icon, followed by a 'Log in' button with a user icon. The main content area has a dark background with a green hexagonal pattern. The title 'Discovery of ATM Service Information' is written in large white text. Below the title is a paragraph: 'The SWIM Registry is a directory of information that supports the discovery of SWIM services. It uses a formal registration process to store, catalogue and manage information about services'. At the bottom left of this area is a green 'Sign up' button with a right-pointing arrow.



Service Descriptions

The registry provides information about upcoming or implemented information services by service providers in SWIM. It provides all information required by service consumers to identify and implement interfaces to information services.



Service Definitions

The registry provides also information about service definitions, that are provider agnostic and reusable descriptions of services that facilitate alignment and interoperability in the implementation of services.

Service Definitions
Harmonized Deployment

Service Descriptions
Service Implementation Discovery

Account Creation

Create an account on:

<https://eur-registry.swim.aero/user/register>

Please use your official organization e-mail !

Create new account

[Log in](#) [Create new account](#) [Reset your password](#)

Email address *

The email address is not made public. It will only be used if you need to be contacted about your account or for opted-in notifications.

Full name *

Several special characters are allowed, including space, period (.), hyphen (-), apostrophe ('), underscore (_), and the @ sign.

Organisation *

Registration justification


Please explain why do you want/need an account

Subscribe to new services

Notifications frequency *

I have read and I agree with the [terms and conditions](#)

CAPTCHA *

I'm not a robot  reCAPTCHA
Privacy - Terms

[Create new account](#)

Account Creation

If you plan to publish services in the registry, you need to be registered as an “Organisational Editor” from an official organization through the registry. Please make the request in the “Registration Justification” if you wish to be Organisational Editor (If you Organization is already registered. If not, please also request it in the same field), or send an email to swim.registry@eurocontrol.int



Create new account

[Log in](#) [Create new account](#) [Reset your password](#)

Email address *

The email address is not made public. It will only be used if you need to be contacted about your account or for opted-in notifications.

Full name *

Several special characters are allowed: hyphen, space, apostrophe ('), hyphen (-), apostrophe ('), and the at sign (@).

Organisation *


Registration justification

Please explain why do you want/need an account

Subscribe to new services

Notifications frequency *

I have read and I agree with the [terms and conditions](#)

CAPTCHA *
 I'm not a robot 
[Privacy](#) [Terms](#)

Service Import Task

Select provider *

- Select -

- Select -

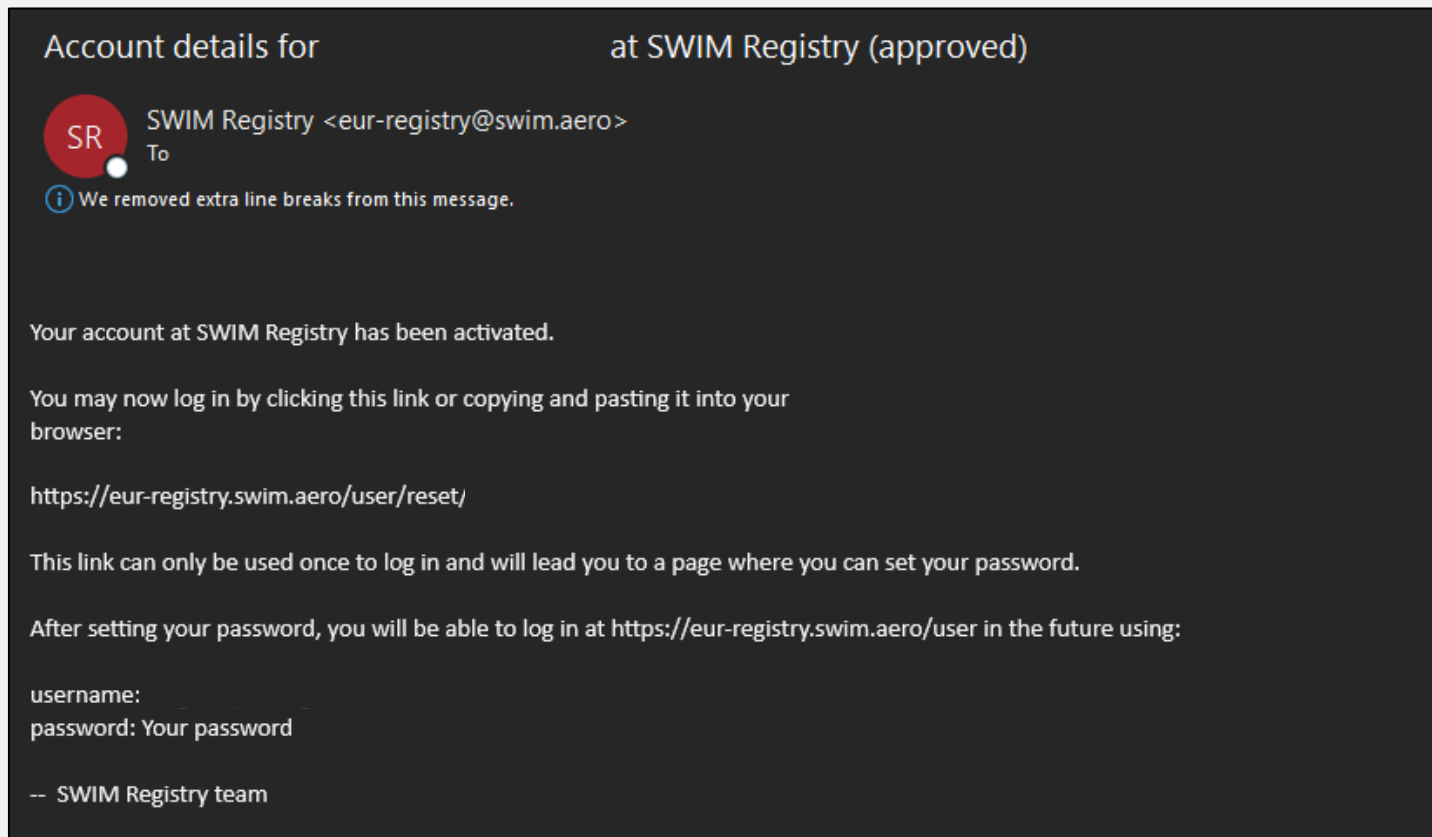
EUROCONTROL

DSNA&ENAV
METEO-FRANCE
DFS
ENAIRES
DWD
EUROCONTROL_&_SLOVENIA_CONTROL
DMI
BIRA
Indra Avitech
MetSafe
EUROCAE
DSNA
Met Office
FMI
EUROCONTROL NM
PANSAs
Metematics
Croatia Control Ltd.

Account Creation

-Your account is created and has to be approved by the SWIM Registry administrators.

-When your account gets approved, you will receive an e-mail to create a password and get your credentials.



Copy/Paste
the link



Important resources

Service Description example:

<https://swim-eurocontrol.atlassian.net/wiki/spaces/SWIM/pages/60752747/Example+service+description+-+Donlon+TOBT+Setting+Service>

Service Definition example:

<https://swim-eurocontrol.atlassian.net/wiki/spaces/MSS/pages/60162182/IWXXM+METAR-SPECI+Subscription+and+Request+Service+-+Service+Definition>

Service Description schema (.json)

<https://github.com/eurocontrol-swim/service-metadata-schema/blob/main/description/DESCRIPTION-V2.json>

Service Definition schema (.json)

<https://github.com/eurocontrol-swim/service-metadata-schema/blob/main/definition/DEFINITION-V2.json>

Upload process: Service Description

2 ways of doing:

1) Manual input

**If you can't see the green buttons, go to slide nr 14*

The screenshot shows the 'Service Registry SWIM' website. The top navigation bar includes 'Service Descriptions', 'Service Definitions', 'Documents', and 'Contact'. A search bar and 'My services' button are also visible. The main content area is titled 'Service Descriptions' and features a grid of service cards. A red box highlights the '+ Add' button, and a hand cursor is shown clicking it. The cards include '3D RADAR Service (GRIB2)', '3D RADAR Service ...', 'Aeronautical Aero...', 'AIMs', and 'AirspaceAvailability'.

Upload process: Service Description

Home > Add content

Create Service 1) Manual input

Name*

Content limited to 40 characters, remaining: 40

Version*

Abstract*

B I S x⁺ x⁻ | U | | | Format - | Source

[About text formats](#)

Service Type*
- Select a value - **Select type “SWIM_COMPLIANT”**

- Service provision
- Service General Description
- Service Information Description
- Service Technical Description
- Service Description References
- Abbreviations
- Service Interfaces

Service Import Task

Last saved: Not saved yet

Author:

Revision log message

Briefly describe the changes you have made.

Service Categorisation

Publication Scope

Image

Change workflow state

URL alias
Automatic alias

Upload process: Service Description

1) Manual input examples

<https://swim-eurocontrol.atlassian.net/wiki/x/awOfAw?atlOrigin=eyJpljoiMjl3ZmZmYjc0NzZmNGNkYThkZWVkdDk3Mjg4MGE2NmUiLjCjwIjoiYyJ9>

Upload process: Service Description

2 ways of doing:

2) Import .json

**If you can't see the green buttons, go to slide nr 14*

The screenshot shows the 'Service Registry SWIM' website interface. At the top, there is a navigation bar with the logo and menu items: 'Service Descriptions', 'Service Definitions', 'Documents', and 'Contact'. A search bar and 'My services' link are also present. Below the navigation bar, the page title is 'Home / Service Descriptions'. On the left side, there is a 'Filter by' sidebar with dropdown menus for 'Service Provider Name', 'Service Type', and 'Lifecycle Stage', a text input for 'Version', and a 'Sort by' dropdown set to 'Title Asc'. An 'Apply' button is at the bottom of the filter sidebar. The main content area is titled 'Service Descriptions' and features two buttons: '+ Add' and 'Import'. The 'Import' button is highlighted with a red box. Below the buttons, there is a grid of service description cards. The first row contains three cards: '3D RADAR Service (GRIB2)' by Met Office (version 1.0.0), '3D RADAR Service (HDF5)' by Met Office (version 1.0.0), and 'Aeronautical Aero...' by EUROCONTROL (Draft, version 1.0.0). The second row contains three cards: 'AIMs' by EUROCONTROL NM (version 26.0), 'AIMs' by EUROCONTROL NM (version 27.0), and 'AirspaceAvailability' by EUROCONTROL NM (version 26.0). Each card includes an icon, a title, and a brief description.


JSON Upload tips:

-If you are not used to working with .json schemas, it's common practice to download an already existing service description/definition .json and take it as a "template" to then fill your own description/definition.

-The download can take some time to trigger.

The screenshot shows the service page for 'IWXXM METAR-SPECI Subscription and Request Service 1.0'. In the top right corner, there are two red annotations: a '1.' pointing to a download icon (a green circle with a white arrow pointing down) and a '2.' pointing to a 'Current JSON' button. Below the main service description, there are two panels. The left panel lists metadata: Service Type (SWIM_DEFINITION), Business Activity Type (INFORMATION_MANAGEMENT), Intended Consumer (AIR_TRAFFIC_SERVICE_PROVIDER), Information Exchange Category (METEOROLOGICAL_INFORMATION_EXCHANGE), and Application Message Exchange Pattern Entity (PUBLISH_SUBSCRIBE). The right panel shows the Provider (EUROCONTROL) and Point of Contact (EUROCONTROL).

IWXXM METAR-SPECI Subscription and Request Service 1.0

1. 

2. **Current JSON**

Abstract

The IWXXM METAR-SPECI Subscription and Request Service provides the service consumer with METAR/SPECI report(s) for one or more aerodromes of a State as it becomes available. The service consumer can subscribe to the service, specifying the aerodrome of interest, and receive information as it becomes available. It is also possible to send a direct request, using a request-reply mechanism, to the service to get the relevant meteorological information. The meteorological information is issued by the designated Aeronautical Meteorological Station. The meteorological information is only intended to be used by service consumers within the aviation domain.

Service Type
SWIM_DEFINITION

Business Activity Type
INFORMATION_MANAGEMENT

Intended Consumer
AIR_TRAFFIC_SERVICE_PROVIDER
+ Show More

Information Exchange Category
METEOROLOGICAL_INFORMATION_EXCHANGE

Application Message Exchange Pattern Entity
PUBLISH_SUBSCRIBE
+ Show More

Provider
EUROCONTROL
EUROCONTROL is an intergovernmental organisation with 42 Member and 2 Comprehensive Agreement States.

Point of Contact
EUROCONTROL

Subscribe

JSON Upload tips:

-But please always refer to the Metadata schema when adding a new field to your .json to make sure the structure and types are correct.

<https://swim-eurocontrol.atlassian.net/wiki/spaces/SWIM/pages/60751890/Service+Metadata+Schema>

Versions

In support of service descriptions

version	details	link	supporting material
v2.0.0	Updated to reflect the latest version of the SWIM service description specification.	https://github.com/eurocontrol-swim/service-metadata-schema/blob/main/description/DESCRIPTION-V2.json	Example service description
v0.0.3d	initial version used by the SWIM Registry <i>Note: This version is no longer used.</i>		

Service Description schema

In support of service definitions

version	details	link	supporting material
v2.0.0	initial version used by the SWIM Registry	https://github.com/eurocontrol-swim/service-metadata-schema/blob/main/definition/DEFINITION-V2.json	Example service definitions

Service Definition Schema

The purpose of the service metadata schemas

The service metadata schemas provides a structured notation for describing services.

They aim to

- facilitate harmonisation in describing services and
- facilitate easier processing by systems. For example, the [European SWIM Registry](#) has developed functions to import and export service descriptions that use the schema.

The schemas

- benefit service providers in facilitating the production of service descriptions, including importing in registry and conformance to the SW specifications
- benefit service consumers with enhanced harmonisation of service descriptions
- allow service descriptions to be processed by systems - this includes upload into a system, exchange between systems and transformation (e.g. to service overview).

Upload process: Service Description

Reminder:

- You need to be a registered service provider through the registry to publish a service.
- You also need the “Organisational editor” role to be able to publish a service.
- If you want to register as a provider send us an email at swim.registry@eurocontrol.int

Service Import Task

Select provider *

- Select -

- Select -

EUROCONTROL

DSNA&ENAV

METEO-FRANCE

DFS

ENAIRES

DWD

EUROCONTROL_&_SLOVENIA_CONTROL

DMI

BIRA

Indra Avitech

MetSafe

EUROCAE

DSNA

Met Office

FMI

EUROCONTROL NM

PANSA

Meteomatics

Croatia Control Ltd.

Upload process: Service Description


1. For a Service Description, choose type as “Compliant”.
2. Add your .json file describing the SWIM service description.

Service Import Task


Select provider *

EUROCONTROL


Select type *



Compliant  1.

Add json file *

Choose File No file chosen  2.

Upload json file, allowed extensions: json

Create  3.

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[Services](#) [Documents](#)

Upload process: Service Description

Example of a service description on paper + .json

Format of the service description

Service description identification

Trace
SWIM-SERV-030

service description identification	title	reference date
	Donlon TOBT Setting Service Description	2020-06-02

Service identification

Trace
SWIM-SERV-040

service identification	service name	version
	TargetOffBlockTimeSetting	1.3.0

Service abstract

Trace
SWIM-SERV-050

service abstract	description
	The TargetOffBlockTimeSetting service supports the Airport CDM concept and its implementation by allowing A-CDM partners to set the Target Off-Block Time (TOBT) that indicates the target time for the aircraft to be ready for take-off at a CDM airport.

```
"serviceIdentification": {
  "name": "TargetOffBlockTimeSetting",
  "version": "1.3.0"
},
"serviceAbstract": "The TargetOffBlockTimeSetting service supports the Airport CDM concept and its implementation by allowing A-CDM partners to set the Target Off-Block Time (TOBT) that indicates the target time for the aircraft to be ready for take-off at a CDM airport.",
"serviceProvider": {
  "provider": "Donlon Airport Operator",
  "abbreviation": "DAO",
  "providerDescription": "Donlon Airport Operator is the organisation responsible for all operations at Donlon airport.",
  "providerType": ["AIRPORT_OPERATOR"],
  "pointOfContact": [{
    "name": "Customer Relations",
    "contactInformation": [{
      "type": "URL",
      "address": "http://www.donlon-airport.com/swim/service-request"
    }],
    "role": "To request access to the service."
  }],
  "role": "To request access to the service."
}
}
```

Donlon TOBT Setting Service Description

This is an example of Service Description for a fictitious service, with the intention to illustrate the EUROCONTROL SWIM specifications.

Service Description Identification

title: Donlon TOBT Setting Service Description
edition: 0.91b
reference date: 23/10/2013

General service elements

Service Identification

name: TargetOffBlockTimeSetting Service
version: 1.0.0
abstract: The TargetOffBlockTimeSetting service supports the Airport CDM concept and its implementation by allowing A-CDM partners, typically aircraft operators and ground handlers, with the capability to set the Target Off-Block Time (TOBT) that indicates the target time for the aircraft to be ready for take-off at a CDM airport. It is part of a set of services supporting the Airport CDM concept and its implementation by providing the A-CDM partners with Common Situation Awareness about flights at a CDM airport.

Service Provider

organization: Donlon Airport Operator
points of contact: To request access to the service: <http://www.donlon-airport.com/swim/service-request>
For incidents on services in operation, contact the Service desk [24/7]: +669 555 01 service-desk@donlonairport.com

Service standard reference

This service conforms to the TargetOffBlockTimeSetting service as defined by SESAR in published within the 5th element of the initial system-wide information management technology solution pack (<http://www.sesaru.eu/ocdr/2355>)
OS_SRM_Solution_46_SWIM_Technological_Solution.zip, file CS42DE_08.03.10_065_European_ATM_Service_Description_for_TargetOffBlockTime.pdf
Deviations: the original payload has been adapted in order to better fulfil the role of a

Operational Need

Operational and Business context

The context is the Airport Collaborative Decision Making (A-CDM) concept as defined in [Implementation Manual v4](#).
In A-CDM it is important to allow A-CDM Partners to set the value of some milestones necessary.
The classical example is to allow the Aircraft Operator or the Ground Handler to set the Block Time (TOBT) that indicates what is the target time for the aircraft to be ready for not any value can be accepted. There may be many business rules for validating the value. For example, a value cannot be in the past, value can no longer be changed, too many changes setting the TOBT value is possible at many stages during the A-CDM process, as early as (CDM) up to and including Milestone 11 (boarding starts).
The Business Logic may involve validations such as:

- not accepting values in the past
- not accepting a new value too close the existing one (there is a minimum allowed)
- limiting the number of changes after TSA7 has been issued.

Information Exchange Requirements

The service is defined to satisfy two IERs, which were derived from the A-CDM Implementation Manual:

IER 1: To allow the Aircraft Operator or ground handler to set, update or delete the Target Off-Block Time of a departing flight. This is done in accordance with operations involving Target Off-Block Time that take place between A-CDM and 11 (derived from: Airport CDM Implementation Manual v4)

IER 2: To allow the competent authority to set the value of the Target Off-Block Time given aircraft in specific circumstances. In other words, under adverse conditions special circumstances this service allows the competent authorities to set the

Upload process: Service Definition

2 ways of doing:

1) Manual input

**If you can't see the green buttons, go to slide nr 14*

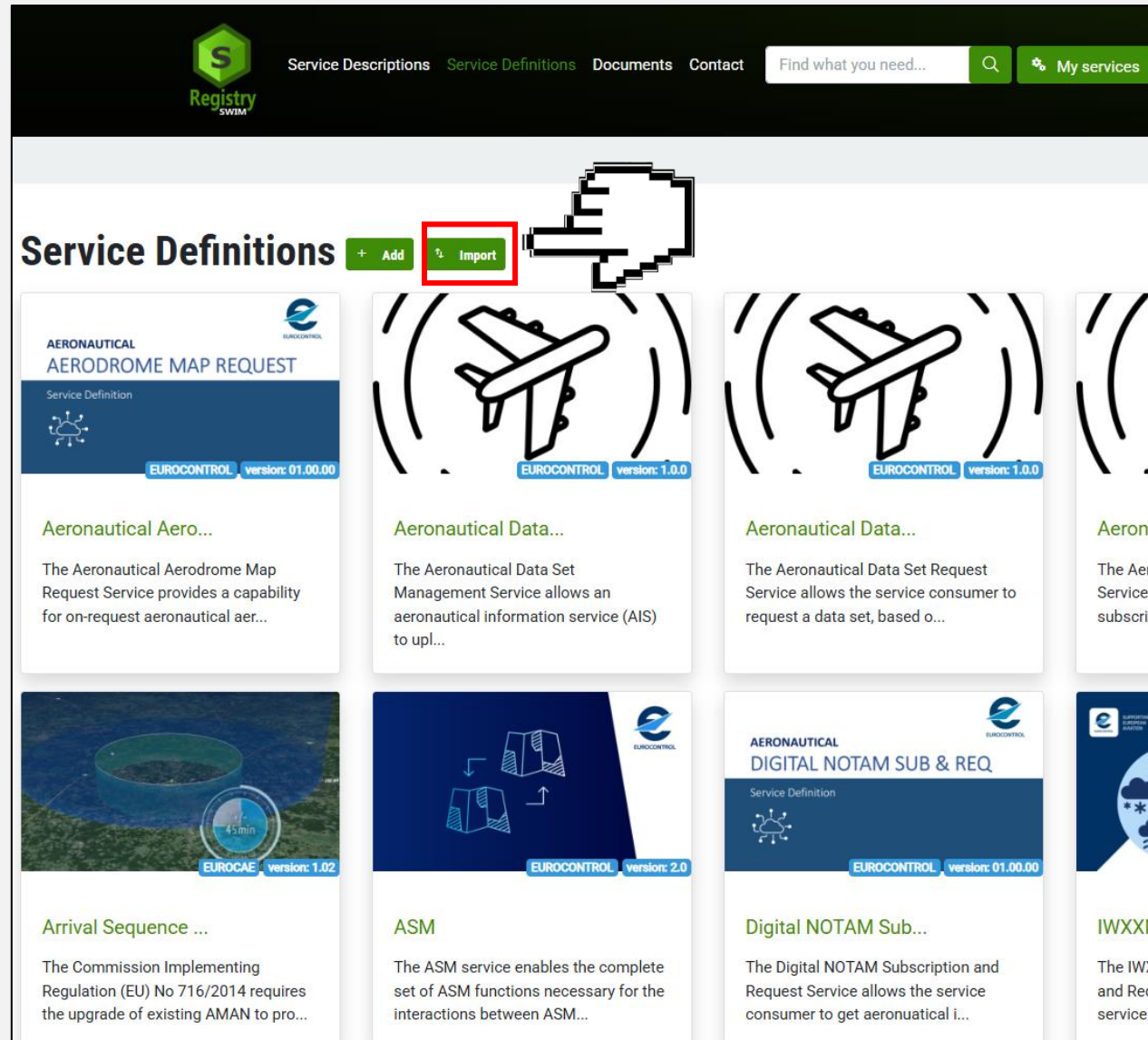
The screenshot displays the 'Service Definitions' page of the Registry SWIM. At the top, there is a navigation bar with the Registry SWIM logo and links for 'Service Descriptions', 'Service Definitions', 'Documents', and 'Contact'. A search bar and a 'My services' button are also present. Below the navigation bar, the page title 'Service Definitions' is followed by two green buttons: '+ Add' (highlighted with a red box) and 'Import'. The main content area features a grid of service definition cards. Each card includes a title, a description, and a version number. A hand cursor is pointing at the 'Aeronautical Data...' card. The cards shown include: 'AERONAUTICAL AERODROME MAP REQUEST' (EUROCONTROL version: 01.00.00), 'Aeronautical Aero...', 'Aeronautical Data...' (EUROCONTROL version: 1.0.0), 'Aeronautical Data...' (EUROCONTROL version: 1.0.0), 'Aeronautical Data...', 'Arrival Sequence ...' (EUROCAE version: 1.02), 'ASM' (EUROCONTROL version: 2.0), 'AERONAUTICAL DIGITAL NOTAM SUB & REQ' (EUROCONTROL version: 01.00.00), and 'Digital NOTAM Sub...' (EUROCONTROL version: 01.00.00).

Upload process: Service Definition

2 ways of doing:

2) Import .json

**If you can't see the green buttons, go to slide nr [14](#)*



The screenshot shows the 'Service Registry SWIM' interface. At the top, there is a navigation bar with 'Service Descriptions', 'Service Definitions', 'Documents', and 'Contact'. A search bar and 'My services' button are also present. The main content area is titled 'Service Definitions' and features a '+ Add' button and a highlighted 'Import' button. Below this, there is a grid of service definition cards. Each card includes a title, a description, and a version number. The cards shown are:

- AERONAUTICAL AERODROME MAP REQUEST** (Service Definition, EUROCONTROL version: 01.00.00)
- Aeronautical Aero...** (The Aeronautical Aerodrome Map Request Service provides a capability for on-request aeronautical aer...)
- Aeronautical Data...** (The Aeronautical Data Set Management Service allows an aeronautical information service (AIS) to upl...)
- Aeronautical Data...** (The Aeronautical Data Set Request Service allows the service consumer to request a data set, based o...)
- Arrival Sequence ...** (The Commission Implementing Regulation (EU) No 716/2014 requires the upgrade of existing AMAN to pro...)
- ASM** (The ASM service enables the complete set of ASM functions necessary for the interactions between ASM...)
- AERONAUTICAL DIGITAL NOTAM SUB & REQ** (Service Definition, EUROCONTROL version: 01.00.00)
- Digital NOTAM Sub...** (The Digital NOTAM Subscription and Request Service allows the service consumer to get aeronautical i...)

Upload process: Service Definition

2) Import .json

1. For a Service Description, choose type as “Definition”.
2. Add your .json file describing the SWIM service definition.

Service Import Task

Select provider *

EUROCONTROL

Select type *



Definition 1.

Add json file *

Choose File No file selected 2.

Upload json file, allowed extensions: json

Create 3.

  Co-financed by the Connecting Europe Facility of the European Union

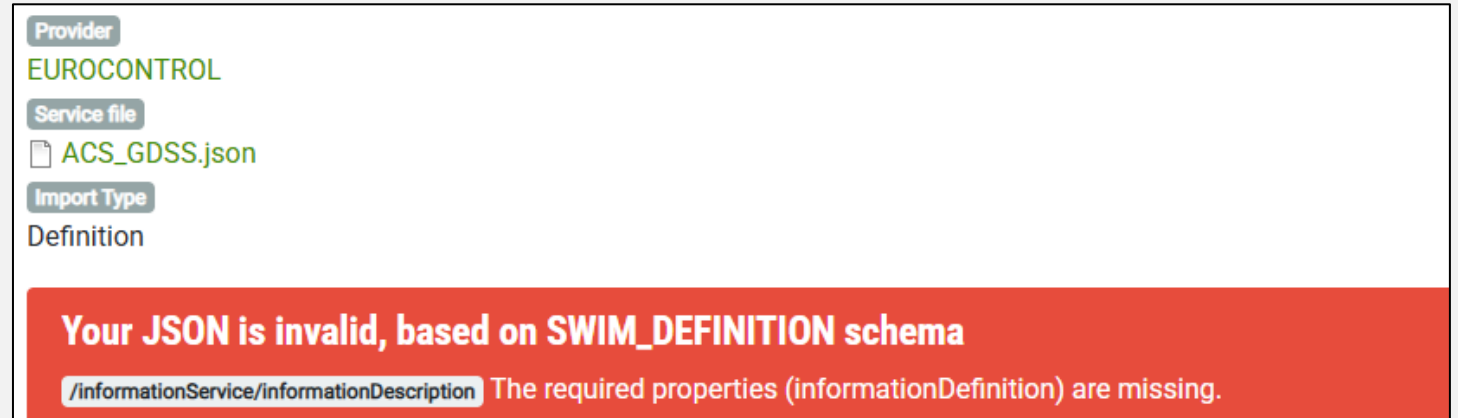
[Services](#) [Documents](#)

Upload process: Service Definition

2) Import .json

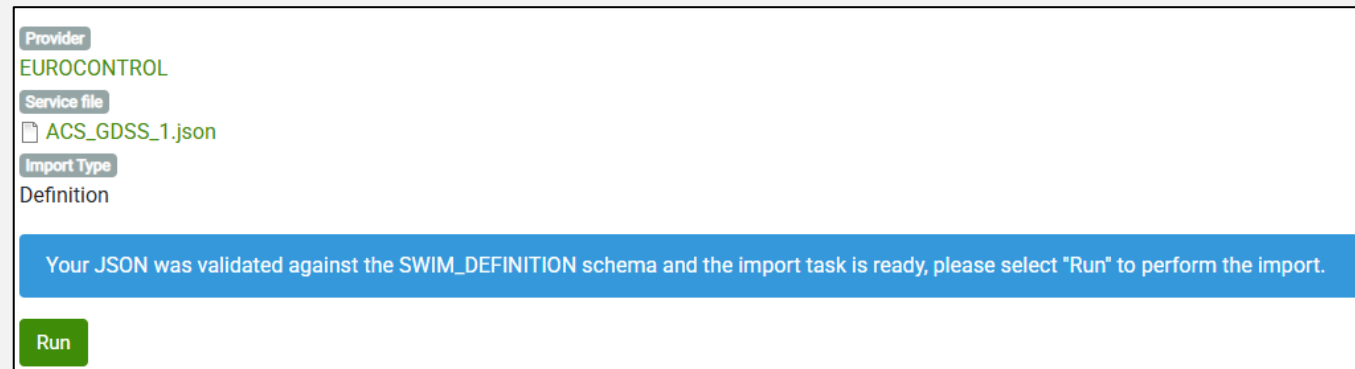
- An error may indicate your .json doesn't validate against the SWIM_DEFINITION schema.
- In this case, go back to the indicated error in your .json, correct it and re-import the corrected .json (repeat steps to import .json)

A message indicating your .json validates against the schema must show



The screenshot shows the 'Provider' field set to 'EUROCONTROL', the 'Service file' as 'ACS_GDSS.json', and the 'Import Type' as 'Definition'. A red error banner at the bottom states: 'Your JSON is invalid, based on SWIM_DEFINITION schema'. Below the banner, a message indicates the error: '/informationService/informationDescription The required properties (informationDefinition) are missing.'

After correction



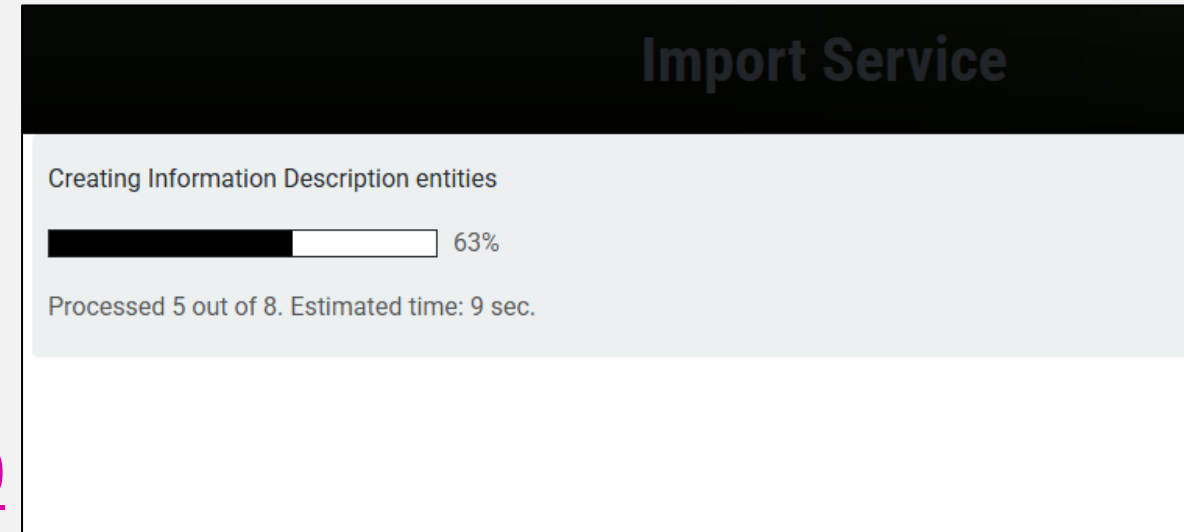
The screenshot shows the same interface as above, but with the 'Service file' updated to 'ACS_GDSS_1.json'. A blue success banner at the bottom states: 'Your JSON was validated against the SWIM_DEFINITION schema and the import task is ready, please select "Run" to perform the import.' A green 'Run' button is visible at the bottom left.

Upload process: Service Definition

2) Import .json

Please verify this goes to 100% as it may block and not upload the full .json

If it blocks to a certain %, your .json may contain an error. Please refer to slide nr [30](#)



The screenshot shows a progress bar titled "Import Service". The progress bar is labeled "Creating Information Description entities" and shows a progress of 63%. Below the progress bar, it states "Processed 5 out of 8. Estimated time: 9 sec."

Validation process

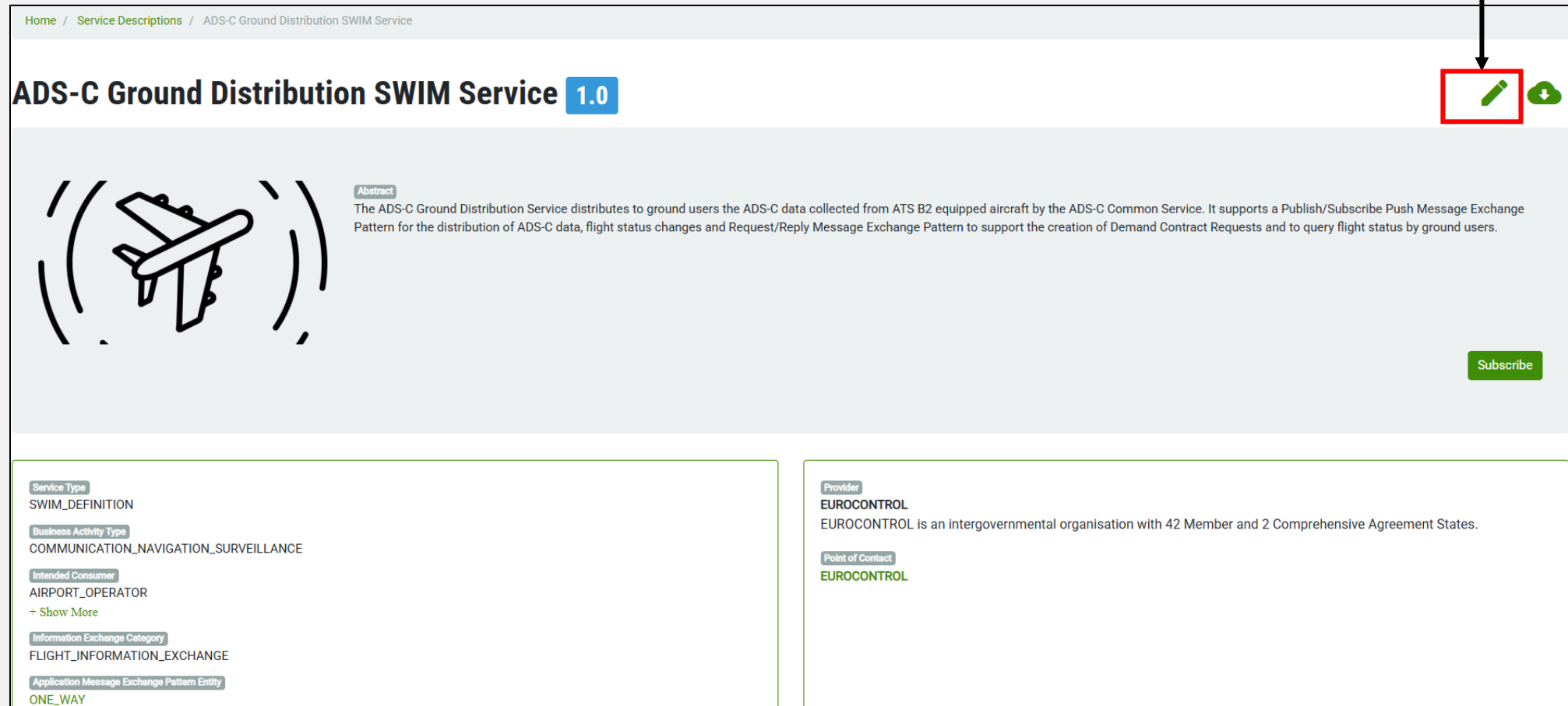
You should find your service as a draft in the appropriate service type menu (Description or Definition).

The screenshot displays the 'Service Registry SWIM' interface. At the top, there is a navigation bar with the logo and menu items: 'Service Descriptions', 'Service Definitions', 'Documents', and 'Cor...'. Below this, the main heading is 'Service Definitions', accompanied by '+ Add' and 'Import' buttons. Two service cards are visible:

- ADS-C Ground Dist...:** This card features an airplane icon and a 'Draft' status label (highlighted with a red box and an arrow from the text box on the left). The version is '1.0'. The description reads: 'The ADS-C Ground Distribution Service distributes to ground users the ADS-C data collected from ATS ...'.
- Aeronautical Aero...:** This card features the EUROCONTROL logo and the title 'AERONAUTICAL AERODROME MAP REQUEST'. The status is 'EUROCONTROL' and the version is '01.00.00'. The description reads: 'The Aeronautical Aerodrome Map Request Service provides a capability for on-request aeronautical aer...'.

Validation process


You can edit the content by pressing the pencil edit icon



The screenshot shows a web page for the "ADS-C Ground Distribution SWIM Service 1.0". A red box highlights a pencil icon in the top right corner, with an arrow pointing to it from the text above. The page includes a breadcrumb trail, a service title, an abstract, a "Subscribe" button, and two columns of metadata.

Home / Service Descriptions / ADS-C Ground Distribution SWIM Service

ADS-C Ground Distribution SWIM Service 1.0



Abstract
The ADS-C Ground Distribution Service distributes to ground users the ADS-C data collected from ATS B2 equipped aircraft by the ADS-C Common Service. It supports a Publish/Subscribe Push Message Exchange Pattern for the distribution of ADS-C data, flight status changes and Request/Reply Message Exchange Pattern to support the creation of Demand Contract Requests and to query flight status by ground users.

[Subscribe](#)

Service Type
SWIM_DEFINITION

Business Activity Type
COMMUNICATION_NAVIGATION_SURVEILLANCE

Intended Consumer
AIRPORT_OPERATOR
[+ Show More](#)

Information Exchange Category
FLIGHT_INFORMATION_EXCHANGE

Application Message Exchange Pattern Entity
ONE_WAY

Provider
EUROCONTROL
EUROCONTROL is an intergovernmental organisation with 42 Member and 2 Comprehensive Agreement States.

Point of Contact
EUROCONTROL

Upload process: Service Definition

In the edit menu, you can modify the content but also add a thumbnail image to the service definition or description.

The screenshot displays the 'Service Definition' edit interface. On the left, a list of sections is visible, including 'Service Type*' (set to 'SWIM_DEFINITION'), 'Service provision', 'Service General Description', 'Service Information Description', 'Service Technical Description', 'Service Description References', 'Abbreviations', and 'Service Interfaces'. Below these is the 'Service Import Task' field containing the text: "ACS_GDSS_5.json-Wednesday, April 2, 2025 - 16:41 (242381)". At the bottom left are 'Save', 'Cancel', and 'Delete' buttons. On the right, a sidebar contains a 'Briefly describe the changes you have made.' field, followed by 'Service Categorisation', 'Publication Scope', and 'Image'. The 'Image' section is highlighted with a red border and contains an 'Add a new file' button with a 'Choose File' dropdown (currently showing 'No file chosen') and a placeholder image of an airplane. Below the image is a note: 'One file only. 256 MB limit. Allowed types: png gif jpg jpeg. Images larger than 800x600 pixels will be resized.' Further down are 'Change workflow state', 'URL alias' (with a checked checkbox for 'Generate automatic URL alias'), and a text field for the 'URL alias' containing '/services/eurocontrol-ads-c-ground-distribution-swim'.

Validation process

Going back to your Service definition/description, scroll down to “Show workflow”

The screenshot shows a web interface for a service definition. At the top, there are sections for 'Information Exchange Category' (FLIGHT_INFORMATION_EXCHANGE), 'Application Message Exchange Pattern Entity' (ONE_WAY), and 'Geospatial Categorisation Description' (This service shall provide information for the European ATM Network). Below this is a 'General' tab with sub-sections for 'Operational Needs', 'Capabilities', 'Functionality', 'Access and Use', 'Quality of Service', 'Quality Of Data', and 'Abbreviations'. The 'Operational Needs' section contains text about ADS-C data collection. The 'Information Exchange Requirements' section contains text about SWIM ADS-C Ground Distribution Service. At the bottom of the main content area, there is a 'Revision Save Date' (Wed, 04/02/2025 - 17:28) and a 'Schema version' (v2). A red box highlights a green button labeled 'Show workflow' with a dropdown arrow. The footer includes the EUROCONTROL logo, the European Union flag, and the text 'Co-financed by the Connecting Europe Facility of the European Union'. There are also links for 'Services' and 'Documents'.

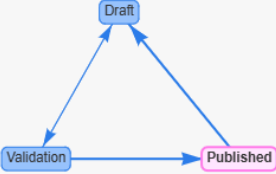
Validation process

Change to “Validation” and then “Change Publication Status”

Revision Save Date Wed, 04/02/2025 - 17:28

Schema version V2

Show workflow ^



```
graph TD; Draft --> Validation; Draft --> Published; Validation --> Published;
```

Registration History

- Draft
- Validation
- Draft

Current state Draft

Change to **1.**

Validation

Revision log message

Briefly describe the changes you have made.

2. Change Publication Status Validate Draft

Validation Report

Validation process

If the validation process goes through, the service definition/description will automatically be published.

Validation process

DISCLAIMER:

The Registry will not allow you to change the status to “Validation” if some modifications you made manually do not validate against the schema.

To correct it, you must therefore modify the service definition through the manual edit mode OR by re-importing the corrected .json schema.

If you have any issues changing the status of the service using the workflow shown on slide [27](#), please refer to slide [32](#)

Validation process

Well-known issues (fixing on-going):

1) Reference title too long, try to be complete but a too long title can cause a database bug.

2) “version” field must be a string (e.g “1” is not acceptable – v1.0 is OK) and must not exceed 10 characters

```
},
"references": {
  "serviceDocument": [
    {
      "documentType": "SERVICE_SPECIFICATION",
      "title": "EUROCONTROL Specification for Data Link Common Services for the Aeronautical Telecommunication Network (ATN), edition 1.0", 1.
      "version": "11/12/23", 2.
      "description": "This specification contains requirements for the ground implementation of data link common services for the Aeronautical Telecommunications Network (ATN)"
    }
  ]
},
```

Validation process

Well-known issues (fixing on-going):

In case publishing the service and validation goes back to “Draft” mode automatically when using the workflow validation method, please use the following procedure to change the status of the service.


It involves using the HMI in the edit mode of the service instead of using the workflow validation. One has to put the workflow state from “Draft” to “Validation” and then go back to edit mode and change the workflow state from “Validation to “Published”.


This is all represented in the following slides.

Validation process

Well-known issues (fixing on-going):

Enter edit mode of the service and change manually the workflow state from “Draft” to “Validation”.

Aeronautical Aerodrome Map Request Service 1.0.0 1. 



Abstract

The Aeronautical Aerodrome Map Request Service provides a capability for on-request aeronautical aerodrome maps that are generated from aerodrome mapping data. Note: Aerodrome mapping data are based on the ICAO Annex 15 notion of aerodrome mapping data and the related aerodrome mapping datasets. Aeronautical aerodrome maps are a graphical representation of aerodrome mapping data. The service generates aeronautical aerodrome maps from current or next AIRAC cycle aerodrome mapping data available in the service back-end. The service encodes the aeronautical aerodrome maps in a graphical format. The consumer of the service can specify in the aerodrome map request: - the individual aerodrome, - the aerodrome map layers to be included, and - the geographical area of interest. The provided aeronautical aerodrome map is used in visualisation contexts as a backdrop map. The service capability enables various use cases (e.g. Digital NOTAM overlay in ePIB applications). The Aeronautical Aerodrome Map Request Service definition provides a common specification for the implementation of Aeronautical Aerodrome Map Request Service instances that conform with EU Implementing Regulation 2021/116 - Common Project One. Note: In the context of European SWIM deployment the Aeronautical Aerodrome Map Request Service capability realizes the SESAR Deployment Programme Aerodrome Mapping Service - Map part. The capability to request airport layout features (i.e. aerodrome mapping data) is realized by the Aeronautical Information Request Service.

[Subscribe](#)

Service Type
SWIM_COMPLIANT

Abbreviation
EUROCONTROL

Life Cycle
OPERATIONAL

Business Activity Type
INFORMATION_MANAGEMENT

In-Operation Date
15-May-2025

Provider
EUROCONTROL
EUROCONTROL is an intergovernmental organisation with 42 Member and 2 Comprehensive Agreement States.

Provider Type
AERONAUTICAL_INFORMATION_SERVICE_PROVIDER

Validation process

Well-known issues (fixing on-going):

The image shows a screenshot of a web application interface for configuring a service. The interface is divided into two main panels. The left panel contains a form with various sections: a text area at the top, a 'Text format' dropdown set to 'Rich Text', a 'Service Type' dropdown set to 'SWIM_COMPLIANT', and several expandable sections: 'Service provision', 'Service General Description', 'Service Information Description', 'Service Technical Description', 'Service Description References', 'Abbreviations', and 'Service Interfaces'. At the bottom of the left panel is a 'Service Import Task' field containing the text '"SrvDescr_AAMR.1.0_20250331.json-Monday, May 26, 2025 - 09:57"'. A red box highlights the 'Save' button at the bottom left, with a red '2.' next to it. The right panel shows a 'Change workflow state' section. It displays 'Current state: Draft' and a 'Change to:' dropdown menu. The dropdown menu is open, showing options: 'Draft', 'Validation', and 'Initial'. A red box highlights the 'Change workflow state' section, and a red '1.' is placed next to the 'Validation' option, which is being pointed to by a mouse cursor. Below this section is a checked checkbox for 'Generate automatic URL alias' and a text field for 'URL alias' containing '/services/eurocontrol-aeronautical-aerodrome-map-rt'. At the bottom of the right panel is an 'Authoring information' section showing 'Authored on 2025-03-19'.

Validation process

Well-known issues (fixing on-going):

Repeat the process, go back to the service that is to be published in edit mode. And change the workflow state from “Validation” to “Published”

Aeronautical Aerodrome Map Request Service 1.0.0

1.  



Abstract

The Aeronautical Aerodrome Map Request Service provides a capability for on-request aeronautical aerodrome maps that are generated from aerodrome mapping data. Note: Aerodrome mapping data are based on the ICAO Annex 15 notion of aerodrome mapping data and the related aerodrome mapping datasets. Aeronautical aerodrome maps are a graphical representation of aerodrome mapping data. The service generates aeronautical aerodrome maps from current or next AIRAC cycle aerodrome mapping data available in the service back-end. The service encodes the aeronautical aerodrome maps in a graphical format. The consumer of the service can specify in the aerodrome map request: - the individual aerodrome, - the aerodrome map layers to be included, and - the geographical area of interest. The provided aeronautical aerodrome map is used in visualisation contexts as a backdrop map. The service capability enables various use cases (e.g. Digital NOTAM overlay in ePIB applications). The Aeronautical Aerodrome Map Request Service definition provides a common specification for the implementation of Aeronautical Aerodrome Map Request Service instances that conform with EU Implementing Regulation 2021/116 - Common Project One. Note: In the context of European SWIM deployment the Aeronautical Aerodrome Map Request Service capability realizes the SESAR Deployment Programme Aerodrome Mapping Service - Map part. The capability to request airport layout features (i.e. aerodrome mapping data) is realized by the Aeronautical Information Request Service.

Subscribe

Service Type

SWIM_COMPLIANT

Abbreviation

EUROCONTROL

Life Cycle

OPERATIONAL

Business Activity Type

INFORMATION_MANAGEMENT

In-Operation Date

15-May-2025

Provider

EUROCONTROL

EUROCONTROL is an intergovernmental organisation with 42 Member and 2 Comprehensive Agreement States.

Provider Type

AERONAUTICAL_INFORMATION_SERVICE_PROVIDER

Validation process

Well-known issues (fixing on-going):

Service Type *

SWIM_COMPLIANT

Service provision

Service General Description

Service Information Description

Service Technical Description

Service Description References

Abbreviations

Service Interfaces

Service Import Task

"SrvDescr_AAMR.1.0_20250331.json-Monday, May 26, 2025 - 09:52"

Change workflow state

Current state: Validation

Change to: Validation

Published 1.

URL alias

Automatically generated

Generate automatic URL alias

Uncheck this to create a custom alias below. [Configure patterns.](#)

URL alias

/services/eurocontrol-aeronautical-aerodrom

Specify an alternative path by which this data can be accessed. For example, type "/about" when writing an about page.

Authoring information

Authored on 2025-03-19

Save Cancel Delete 2.

Service should now be published

CONGRATULATIONS!



Revision/Update of your service

In the case of some updates needed after publication of your Service Description/Definition you can re-import the JSON and “overwrite” the current data. Then re-iterate the validation from “Draft” to “Published” mode

The screenshot shows the 'Service Definitions' page in the Registry SWIM interface. The 'Import' button is highlighted with a red box and a hand cursor. A red arrow points from the 'Aeronautical Data...' service card to the right-hand screenshot.

The screenshot shows a confirmation dialog for overwriting a service. The dialog text reads: "The following service(s) will be overwritten: ADS-C Ground Distribution SWIM Service 1.0. Are you sure you want to continue?" with "Continue" and "Cancel" buttons.

Next steps

This guidance material will be available on SWIM Registry site – Document section

Updates in accordance with Registry evolution

Need support?

Contact us via:

swim.registry@eurocontrol.int



SUPPORTING
EUROPEAN
AVIATION

Questions?

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NETWORK
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