附錄　會議簡報

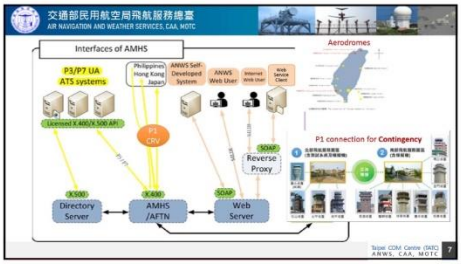
一、我方會議簡報（簡報者：曾勝美）

二、ATMC 簡介（作業室解說：渡邊美崇、青野貴成、前地沙織）

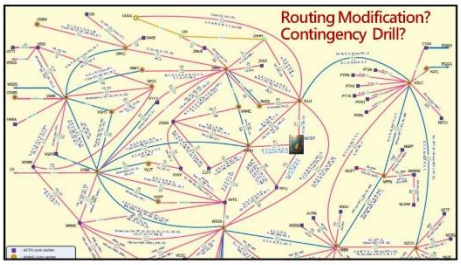
三、Overview of AMHS and Flow in Case of Communication Failure（簡報者：寺村光平）

四、JCAB SWIM Use Cases（簡報者：岩澤康志）

一、 我方會議簡報（簡報者：曾勝美）

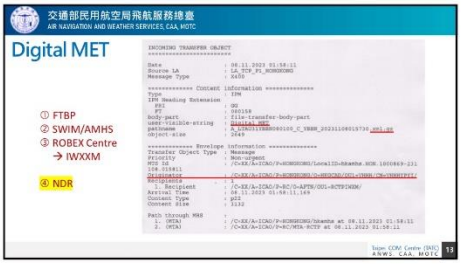

交通部民用航空局飛航服務總臺
AIR NAVIGATION AND WEATHER SERVICES, CAA, MOTC
Interfaces of AMHS
P3/P7 UA ATS systems
Aerodromes
P1 connection for Contingency
Reverse Proxy
Directory Server
AMHS /AFTN
Web Server

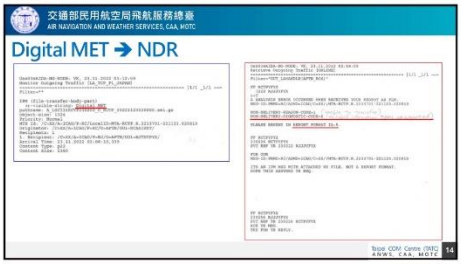
交通部民用航空局飛航服務總臺
AIR NAVIGATION AND WEATHER SERVICES, CAA, MOTC

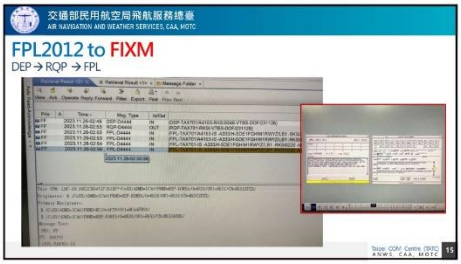

Routing Modification?
Contingency Drill?

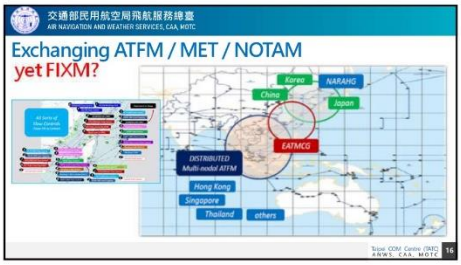
交通部民用航空局飛航服務總臺
AIR NAVIGATION AND WEATHER SERVICES, CAA, MOTC
From AMHS to SWIM
- COMI B0/7 AMHS → SWIM B2
- SWIM Region Manpower Mngt???

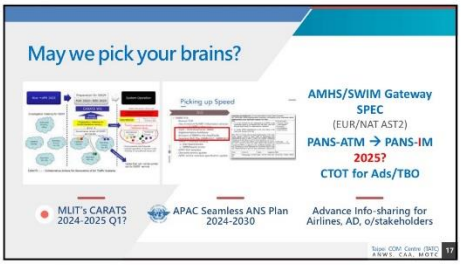
交通部民用航空局飛航服務總臺
AIR NAVIGATION AND WEATHER SERVICES, CAA, MOTC
Exchanging IWXXM MSG
飛航訊息處理系統 (AMHS)
X400 + P7 MSG
X400 + P7 MSG
TAC
VHHH ROBEX
Traditional MET MSG
Converter SWIM/AMHS Gateway?

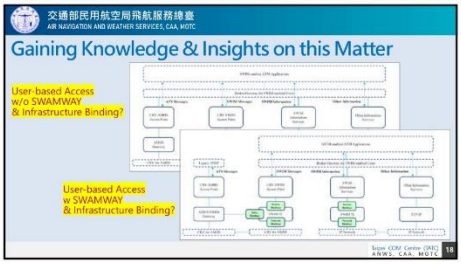

交通部民用航空局飛航服務總臺
AIR NAVIGATION AND WEATHER SERVICES, CAA, MOTC
Digital MET
① FTBP
② SWIM/AMHS
③ ROBEX Centre
→ IWXXM
④ NDR


交通部民用航空局飛航服務總臺
AIR NAVIGATION AND WEATHER SERVICES, CAA, MOTC
Digital MET → NDR


交通部民用航空局飛航服務總臺
AIR NAVIGATION AND WEATHER SERVICES, CAA, MOTC
FPL2012 to FIXM
DEP → RQP → FPL

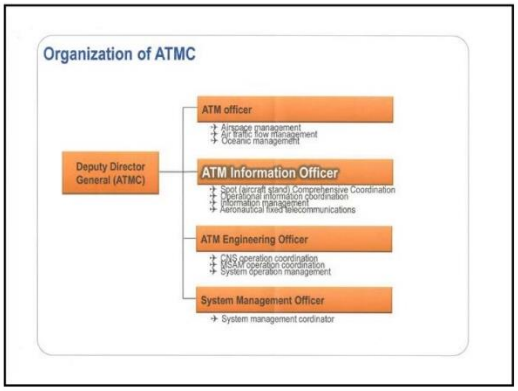

交通部民用航空局飛航服務總臺
AIR NAVIGATION AND WEATHER SERVICES, CAA, MOTC
Exchanging ATFM / MET / NOTAM
yet FIXM?
Korea
NARAHG
China
Japan
EATMCG
DISTRIBUTED
Multi-nodal ATFM
Hong Kong
Singapore
Thailand
others

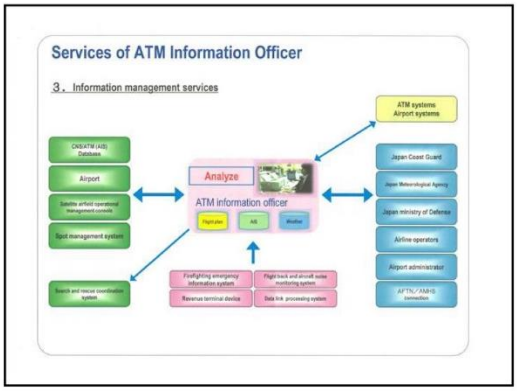

May we pick your brains?
AMHS/SWIM Gateway SPEC
(EUR/NAT AST2)
PANS-ATM → PANS-IM
2025?
CTOT for Ads/TBO
MLIT's CARATS 2024-2025 Q1?
APAC Seamless ANS Plan 2024-2030
Advance Info-sharing for Airlines, AD, o/stakeholders

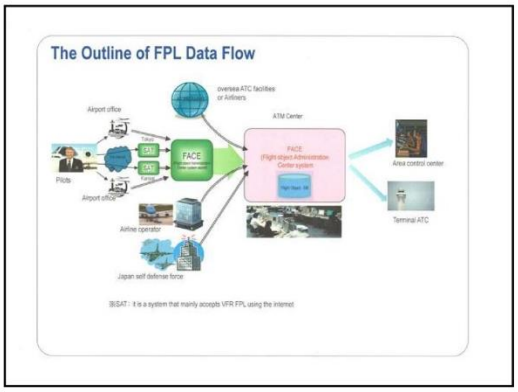

交通部民用航空局飛航服務總臺
AIR NAVIGATION AND WEATHER SERVICES, CAA, MOTC
Gaining Knowledge & Insights on this Matter
User-based Access
w/o SWAMWAY
& Infrastructure Binding?
User-based Access
w SWAMWAY
& Infrastructure Binding?

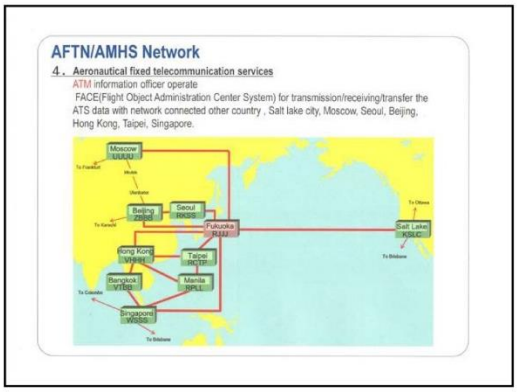
Thank you for
Listening!
飛航安全，世界一流
飛航服務，顧客滿意
曾勝美 (Vikki)

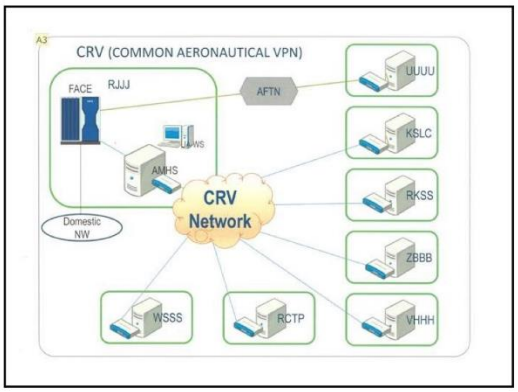
二、　ATMC 簡介（作業室解說：渡邊美崇、青野貴成、前地沙織）







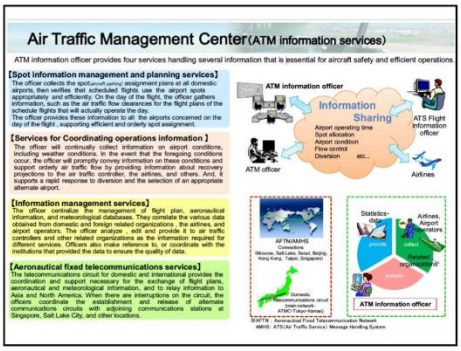




三、 Overview of AMHS and Flow in Case of Communication Failure

（簡報者：寺村光平）

1



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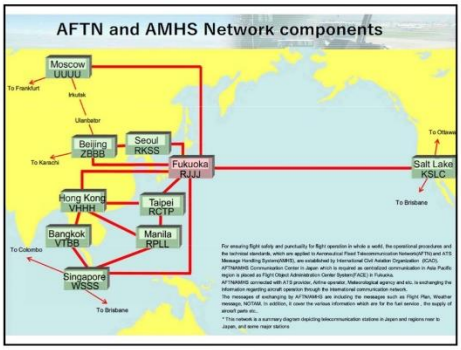

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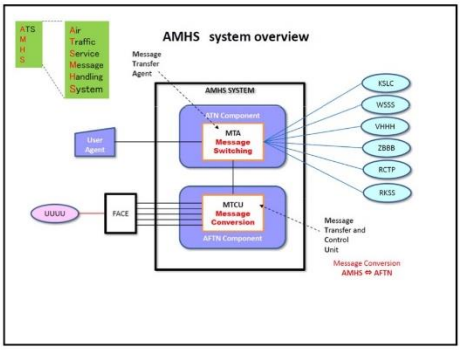

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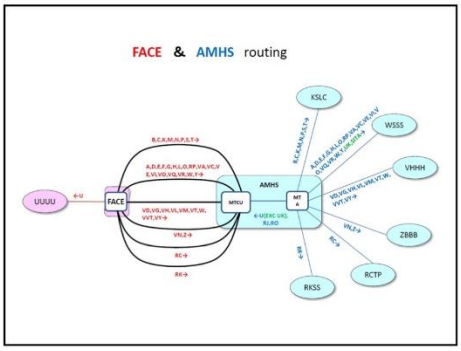

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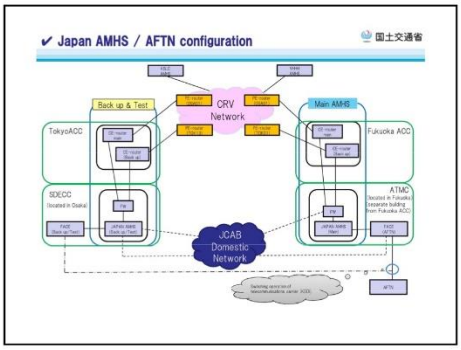
Overview of AMHS and Flow in Case of Communication Failure（簡報者：寺村光平）



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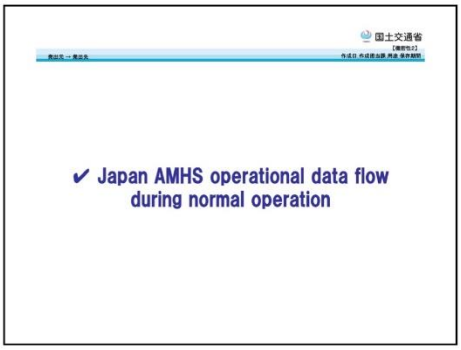

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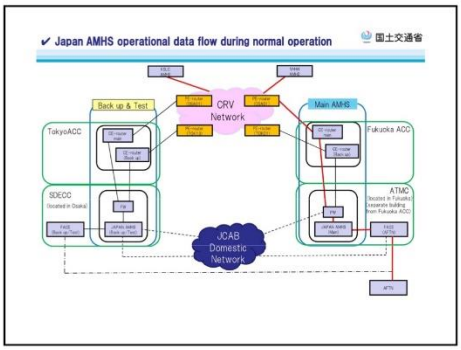

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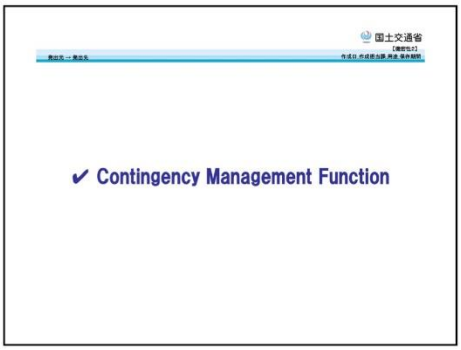

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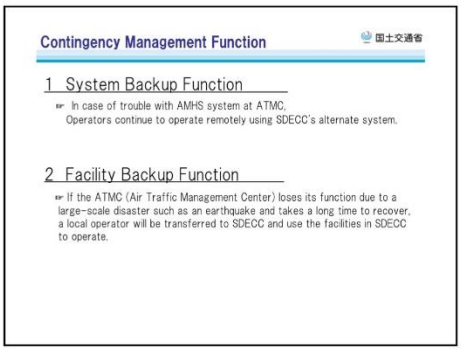

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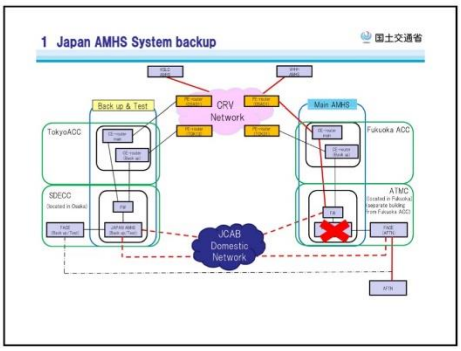

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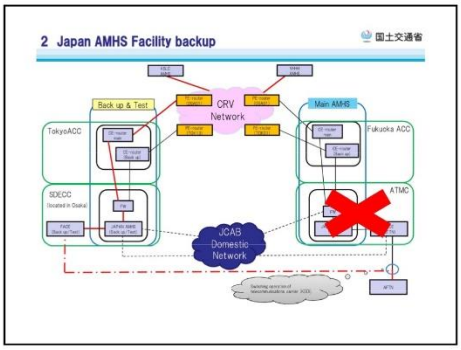
Overview of AMHS and Flow in Case of Communication Failure（簡報者：寺村光平）



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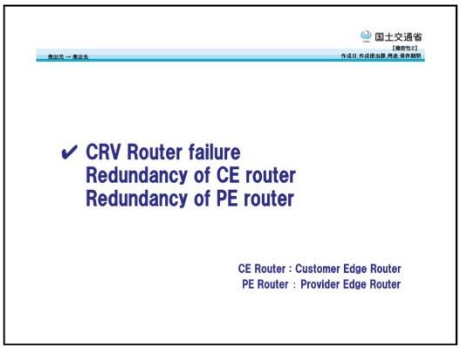

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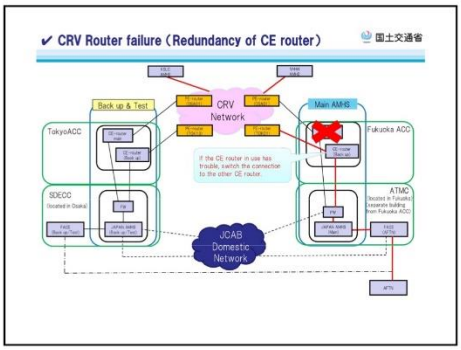

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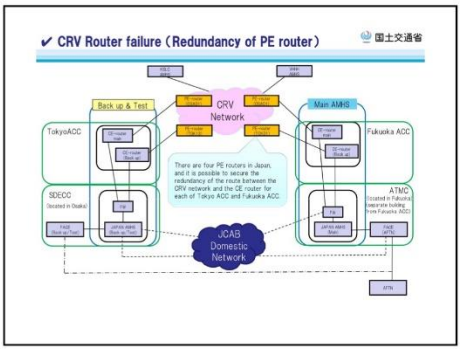

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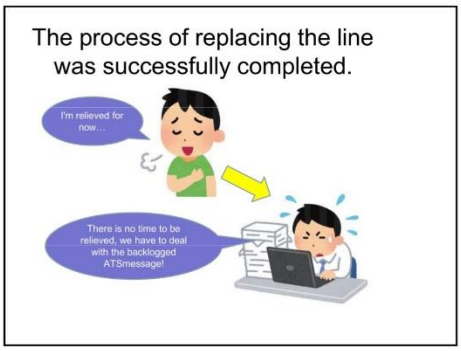

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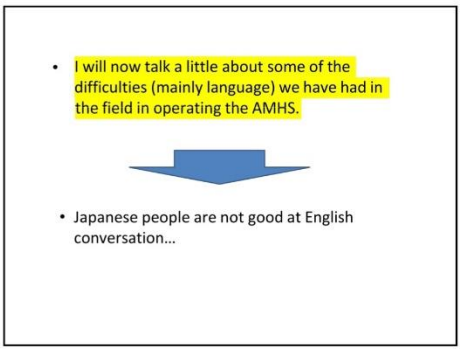


18

Overview of AMHS and Flow in Case of Communication Failure（簡報者：寺村光平）

A certain event in the aeronautical communications service ....

19

Hurry to Salt Lake City to check on the situation...but...

20

If a Japanese staff member who is not good at English conversation handles the situation.....

21

There may be a few staff members who are afraid of receiving calls from abroad...

22

Fortunately....

We rarely have communication problems between Taipei and Fukuoka.

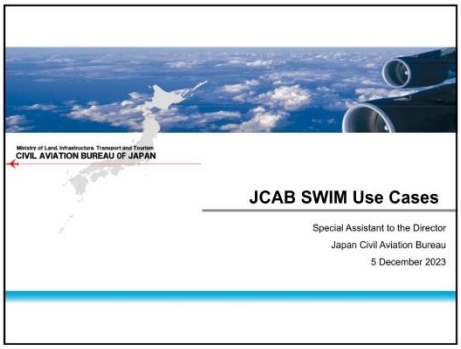
but....

we would like the opportunity to communicate with the com staff in Taipei!

I hope we can have good communication on a daily basis!

23

四、 JCAB SWIM Use Case（簡報者：岩澤康志）



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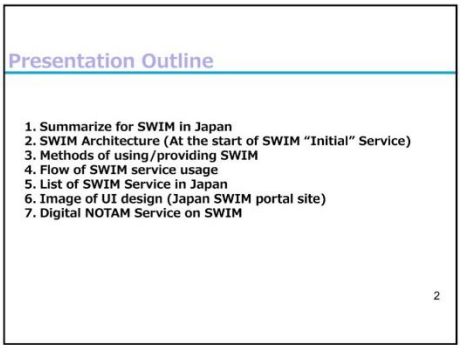

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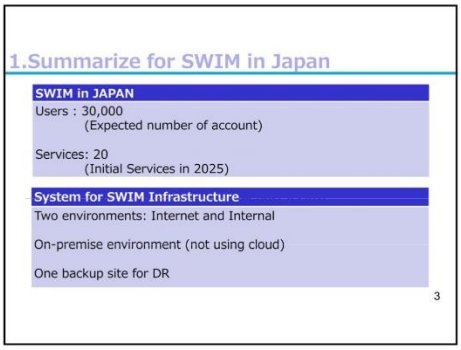

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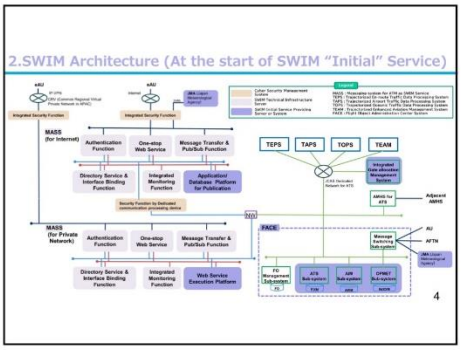

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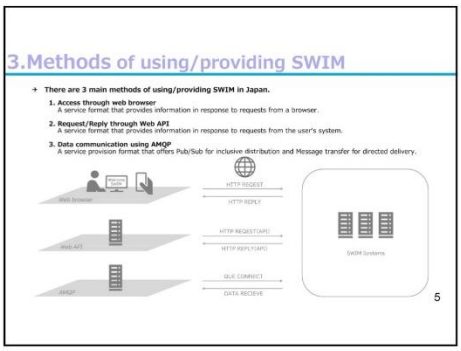

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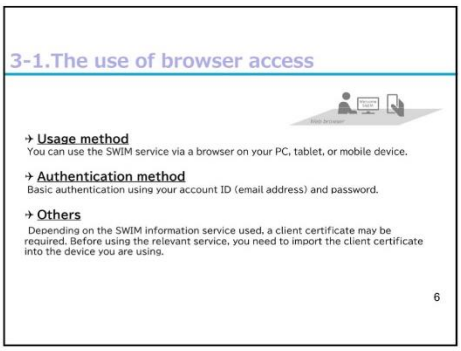


6

JCAB SWIM Use Case（簡報者：岩澤康志）

3-2.The use of Web API

→ **Usage method**
Refer to the API specification provided by each service, and implement your own application to use the service.
The API specification is published on the page of each service on the SWIM portal site.

→ **Authentication method**
Basic authentication using your account ID (email address) and password.

→ **Usage example**
1. Perform login using the login authentication API procedure.
2. Use the API procedure of the relevant service to use the service.

7

7

3-3.The use of Pub/Sub or Message transfer (AMQP)

→ **Usage method**
Implement the AMQP application on the user side to use the service.

→ **Authentication method / Connection method**
The setting parameters* necessary for AMQP connection can be confirmed on the user's page of the SWIM portal. * Queue name, Queue connection ID/Password, Broker URL

→ **Message data structure**
The data structure is published on the page of each service on the SWIM portal.

→ **Settings for receiving messages from the Pub/Sub service**
In the distribution service, users select and register (filter settings) the messages they want to receive on the SWIM portal site.

8

8

4.Flow of SWIM service usage

【STEP1】Registration on the SWIM portal → 【STEP2】Application for using SWIM Services

Access the SWIM portal
- **Access the SWIM portal site**
※The URL will be posted on AIP as soon as it is ready.
- Use a browser on your PC, tablet, or smartphone.

Sign up
- **Sign up from the SWIM portal site.**
- Register your email address (account ID).

Receive confirmation email
- **Check your email as the SWIM portal site will send a confirmation email to the registered email address.**

Complete registration
- **Complete the registration from the received email.**
- Register personal information (name, password, etc.).
- Choose between "user" or "provider".

9

9

4.Flow of SWIM service usage

【STEP1】Registration on the SWIM portal → 【STEP2】Application for using SWIM Services

Log in to the SWIM portal
- **Login to the SWIM Portal site.**
- Account ID is your email address
- Authentication method is basic authentication (ID/password)

Apply for service usage
- **From the service list screen or the service details screen, submit a usage request for the desired information service.**
- Some services may require review.

Services that do not require approval

Services that require approval

Approval process
- Reviews are conducted by the service provider or the SWIM administrator. If the review results in a rejection, access privileges for that service will not be granted.

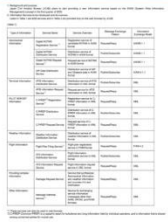
Approval

Start using the service
- **For web services, access privileges to that service will be granted to the applicant.**
- **For Pub/Sub and Message transfer services, information such as connection queues will be disclosed to the applicant.**
- Users need to implement their own AP for connecting to AMQP.

10

10

5.List of SWIM Service in Japan(AIC009/23)



11

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6.Image of UI design (Japan SWIM portal site)

SWIM portal top page for PC

Login page for PC

Service list for mobile (iPad)

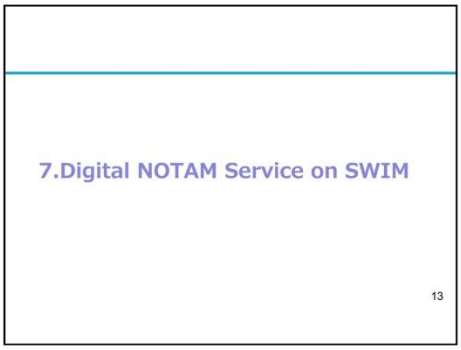
Airport profile service page for PC

Airspace profile service page for PC

12

12

JCAB SWIM Use Case（簡報者：岩澤康志）



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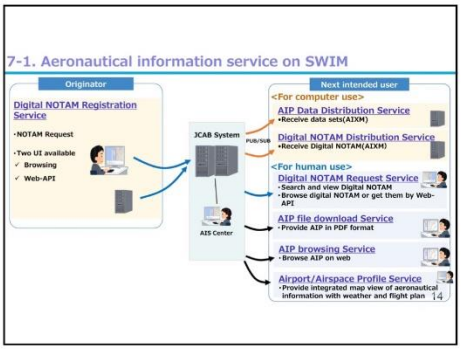

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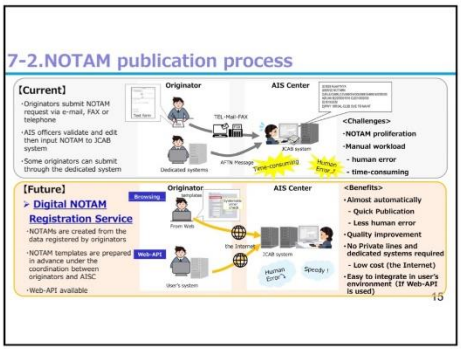

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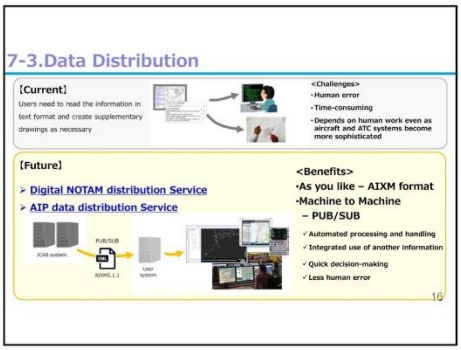

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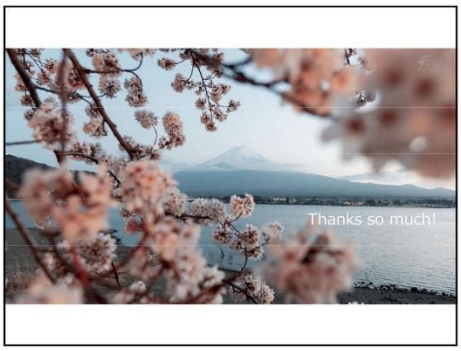

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