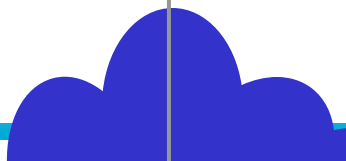




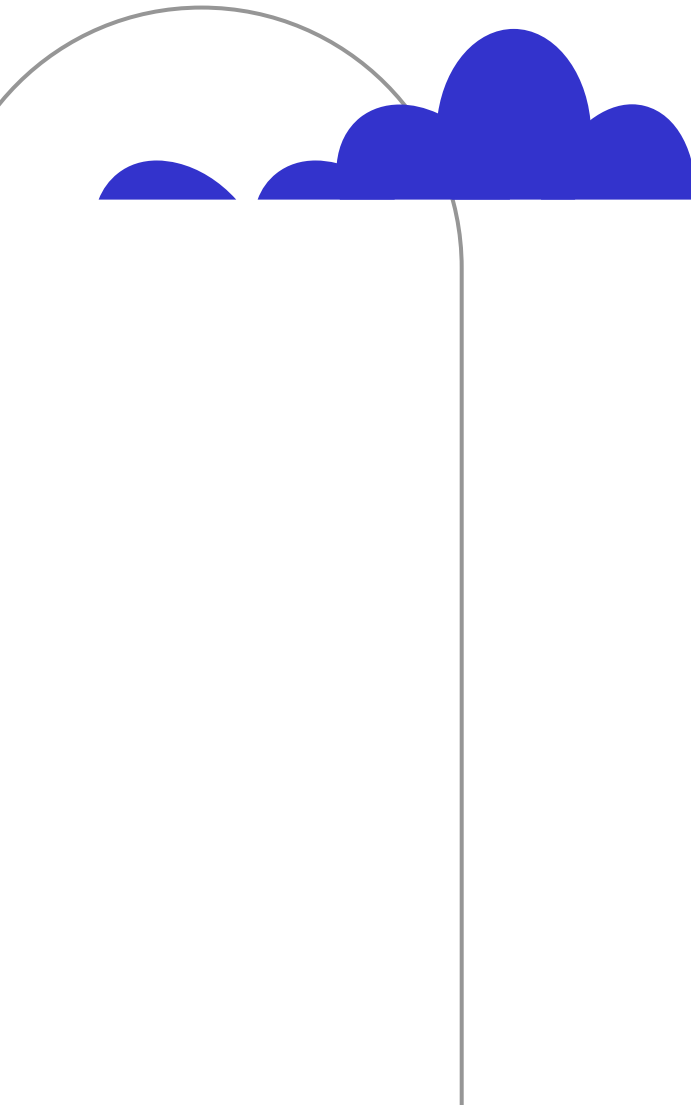
Ministry of Land, Infrastructure, Transport and Tourism
CIVIL AVIATION BUREAU OF JAPAN

SWIM Information Service in JAPAN

For: AAITF/20
By: AISC JCAB
9-13 JUN 2025



01



INTRODUCTION



INTRODUCTION

REGIONAL AIM CAPABILITY PHASE III

Expected to be implemented by 27 November 2025

AIM Systems and Processes

7.21 All Administrations should

- i. exchange digital data sets of aeronautical information in a SWIM environment, aligned with ASBU DAIM-B2/1.
- ii. provide Aeronautical Information briefing with integrated meteorological information; and
- iii. provide Electronic aeronautical charts.

Note 1: The Asia/Pacific Seamless ANS Plan PASL Phase III includes the expectation that ATM systems should be supported by digitally-based NOTAM aligned with ASBU DAIM-B1/7, replacing paper product-based NOTAM with digital NOTAM.

Note 2: Aeronautical briefing with integrated meteorological information, and electronic charts, are subject to the review of the ICAO Roadmap for Transition from AIS to AIM.

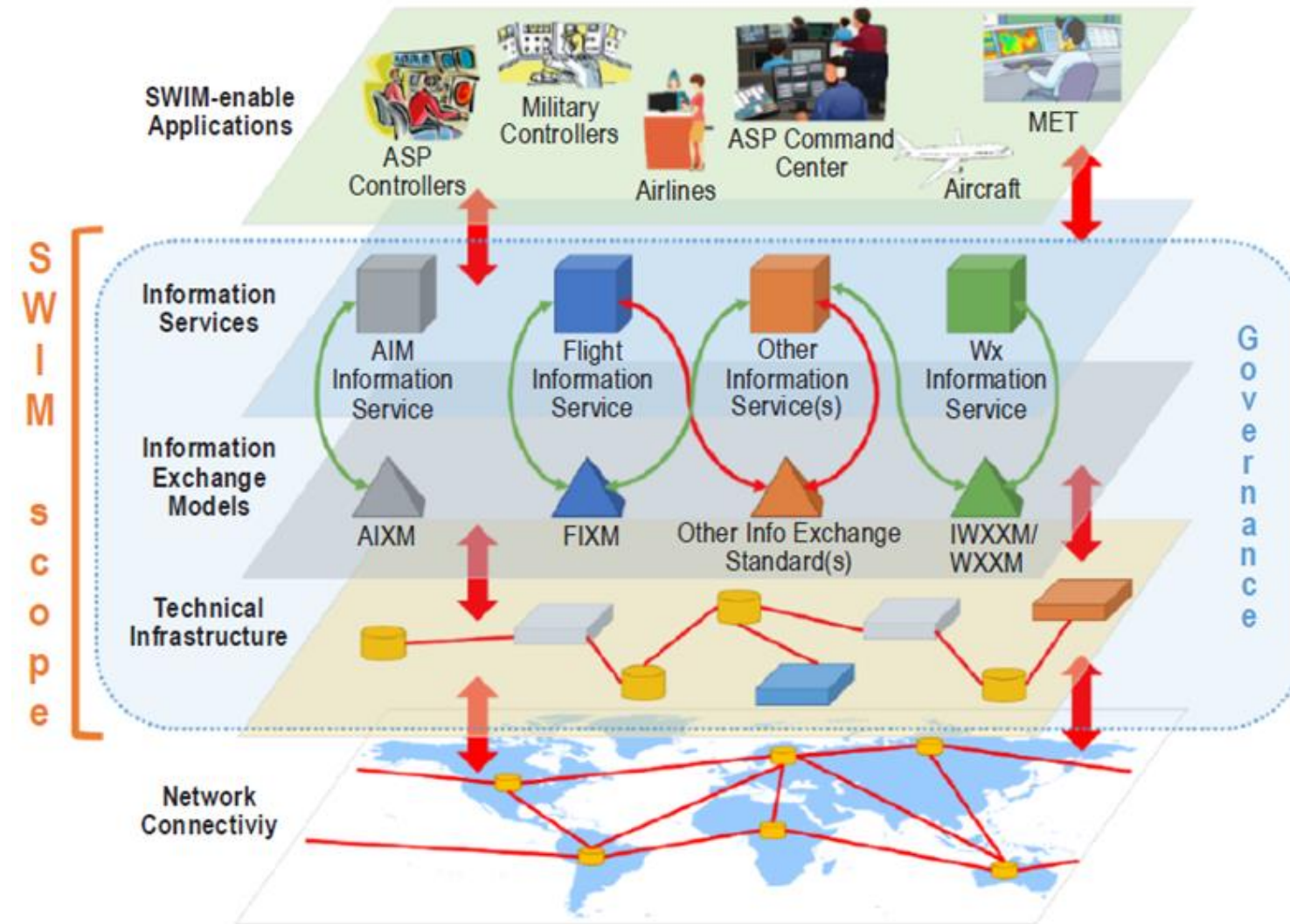


02

DISCUSSION

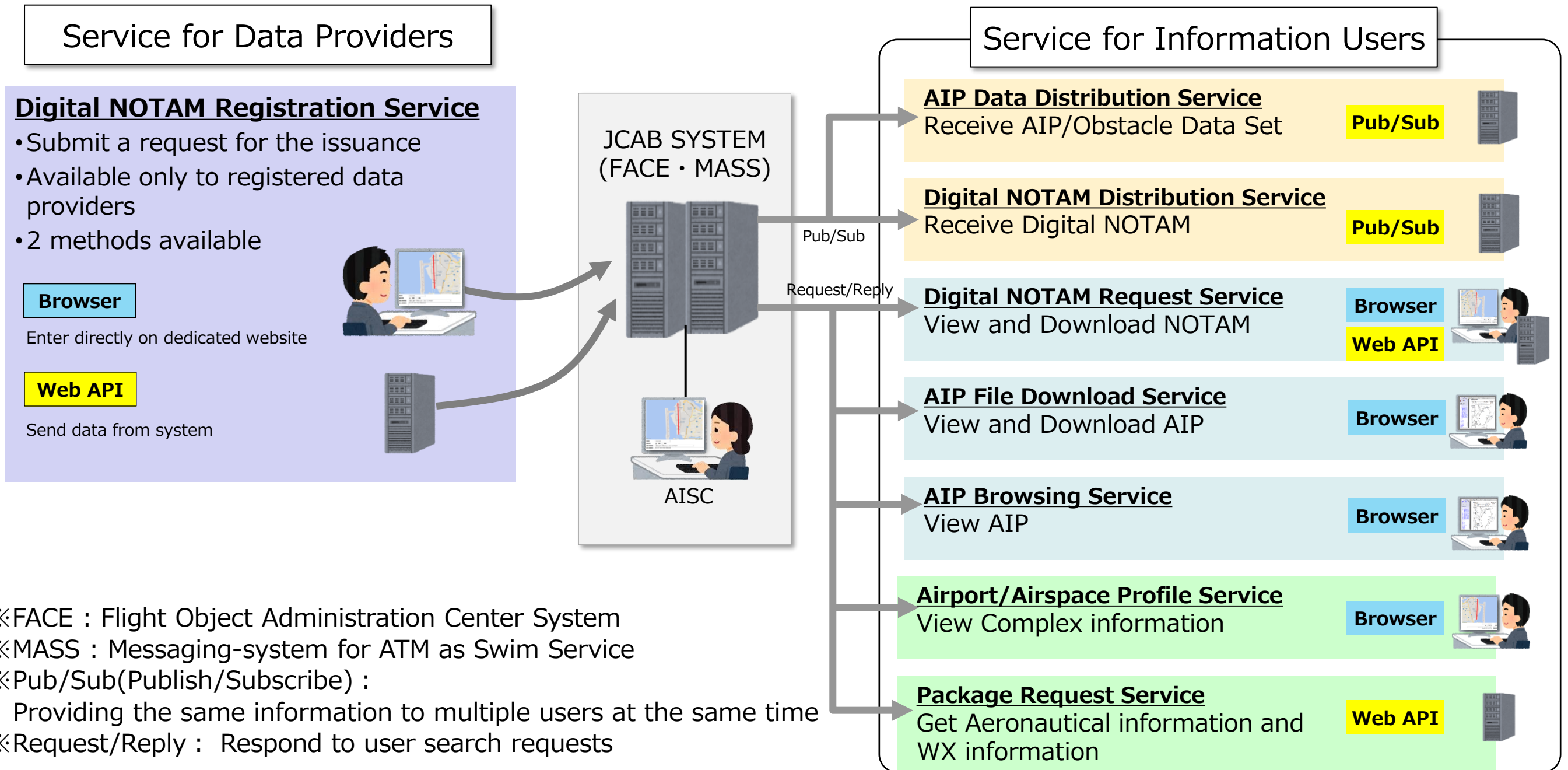


DISCUSSION : SWIM in JAPAN



SWIM Global Interoperability Framework (from ICAO Doc10039)

DISCUSSION : SWIM in JAPAN



DISCUSSION : Information services(related to AIS)

For machine processing

- **AIP Data Distribution Service(Pub/Sub)**

- Distribute AIP data and Obstacle data on AIRAC cycle
- AIXM5.1.1

- **Digital NOTAM Distribution Service(Pub/Sub)**

- Distribute Digital NOTAM
- AIXM5.1.1

- **Digital NOTAM Request Service(Web-API)**

- Provide Digital NOTAM
- AIXM5.1.1

- **Package Request Service (Web-API)**

- Provide Aeronautical Information and Weather Information.

DISCUSSION : Information services(related to AIS)

For Human reading

- Digital NOTAM Request Service

- Browse Digital NOTAM

- AIP File Download Service

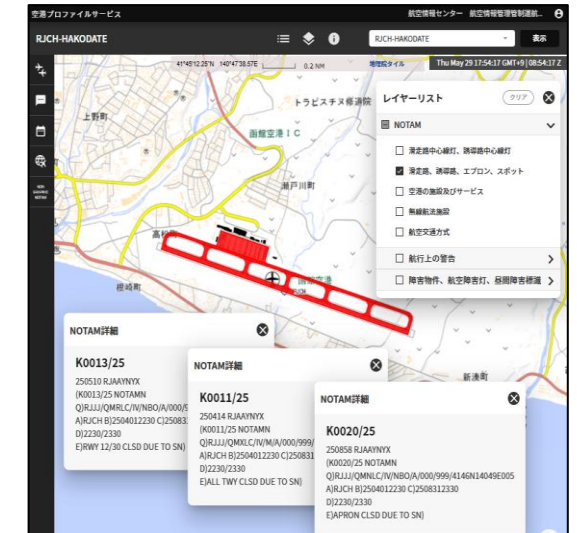
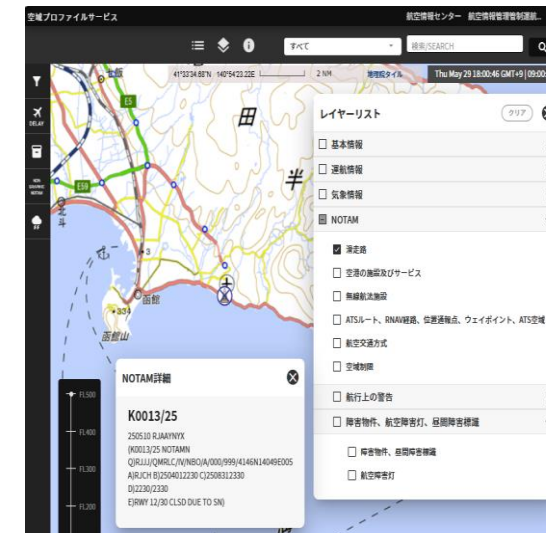
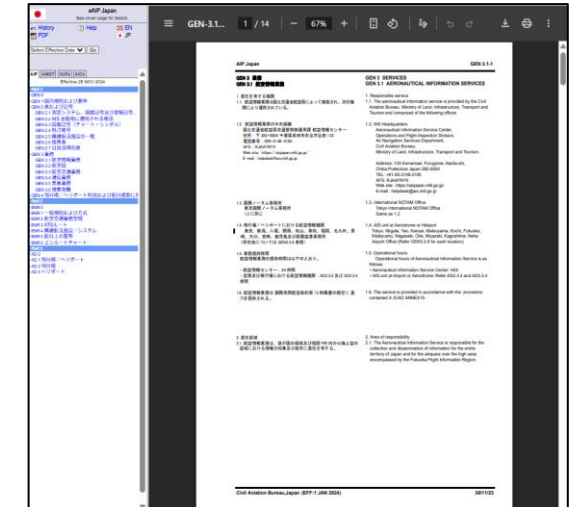
- Download AIP PDF files, etc.

- AIP Browsing Service

- Browse AIP

- Airport/Airspace Profile Service

- Browse Flight Information, Aeronautical Information, and Weather Information related to airports/airspace.



Digital NOTAM Request Service

TABLE

LIST

RTT/TOKYO INTL AIRPORT

000141 RJAA/NYX

0141/21 NOTAMN

Q)RTT/QXXX/I/NBO/A/000/999/3527N13927E005

A)RTT B)2105091500 C)2106161500

E)REF AIP PAGE RTT AD2-9, AD2.24-SID-1

RTT/HATSU TWO DEPARTURE, YOKOTA ONE DEPARTURE, TAKE OFF MINIMA

TEMPO CHANGE DUE TO OBST(CRANE) AS FLW

(1)HASTU TWO DEPARTURE, YOKOTA ONE DEPARTURE

ADD IN TEXT

NOTE: WHEN TAKE OFF RWY01, FOLLOWING CLIMB GRADIENT SHOULD BE

MAINTAINED UNTIL 600FT

SPEED(KNOTS) / 60 / 90 / 120 / 150 / 180 / 210 /

RATE(Feet/Min) / 300 / 450 / 600 / 750 / 900 / 1050 /

(2)TAKE OFF MINIMA

TKOF ALTN AP FILED

CHANGE TO READ

RWY/ REDL AVEL / REDL OUT /

/ CEIL-RVR/CEIL-VIS / CEIL-RVR/CEIL-VIS /

01 / 200-800M / 200-800M / - / 200-800M /

19 / 0-600M / 0-600M / - / 0-800M /

INSTEAD OF

RWY/ REDL AVEL / REDL OUT /

/ CEIL-RVR/CEIL-VIS / CEIL-RVR/CEIL-VIS /

TABLE

LIST

Location	Number	NOTAM CODE	Start Date (UTC)	End Date (UTC)	Schedule	Contents	UUID
RTT	A0001/21	QMPLC	2021-11-28 15:00	2021-11-29 22:00	1500/2000 2100/2200	SPOT 64-QLSD DUE TO CONST	dc296f9b-0149-4edf-8e93-650444b47d0e
RTT	A0002/21	QOBC	2021-11-28 15:00	2021-11-29 22:00		CRANE EXIST ABV HORIZONTAL SFC	b2ed9f40-042f-4f2c-8e3b-9bd10f7b6347
RTT	A0003/21	QWHLW	2021-11-21 10:00	2021-11-23 11:00	21 23 1000/1100	FIREWORKS:	9e51668f-bf8a-4f5b-ba6e-27087972b6b0
RTT	A0004/21	QMPLC	2021-11-28 15:00	2021-11-29 22:00	1500/2000 2100/2200	SPOT 64-QLSD DUE TO CONST	d8455a6b-9319-4bb7-b797-08a644342d64
RTT	A0005/21	QOBC	2021-11-28 15:00	2021-11-29 22:00		CRANE EXIST ABV HORIZONTAL SFC	dc93da1-fd5e-40ca-8584-7570b7f8d10c
RTT	A0006/21	QWHLW	2021-11-21 10:00	2021-11-23 11:00	21 23 1000/1100	FIREWORKS:	ebcdcb64-clb3-4b27-8e5a-a32d2763208e

apple

Airport Profile Service

Specify the airport.

NOTAM

AIP AD2.2

AIP Japan
RJTT-TOKYO INTL

RJTT AD 2.2 AERODROME LOCATION INDICATOR AND NAME

RJTT - TOKYO International

RJTT AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	AIP section and title	2023/11/24
1	Direction and distance from (2023)	10km (2023) 2 of Tokyo Station (Japan Railways)
2	Elevation reference temperature	2023/11/24 (2023)
3	General information on AIP (2023/11/24)	2023/11/24
4	AD (2023/11/24)	2023/11/24
5	AD (2023/11/24)	2023/11/24
6	AD (2023/11/24)	2023/11/24
7	AD (2023/11/24)	2023/11/24
8	AD (2023/11/24)	2023/11/24
9	AD (2023/11/24)	2023/11/24
10	AD (2023/11/24)	2023/11/24
11	AD (2023/11/24)	2023/11/24
12	AD (2023/11/24)	2023/11/24

RJTT AD 2.3 OPERATIONAL HOURS

1	AD (2023/11/24)	2023/11/24
1	AD (2023/11/24)	2023/11/24
2	AD (2023/11/24)	2023/11/24
3	AD (2023/11/24)	2023/11/24
4	AD (2023/11/24)	2023/11/24
5	AD (2023/11/24)	2023/11/24
6	AD (2023/11/24)	2023/11/24
7	AD (2023/11/24)	2023/11/24
8	AD (2023/11/24)	2023/11/24
9	AD (2023/11/24)	2023/11/24
10	AD (2023/11/24)	2023/11/24
11	AD (2023/11/24)	2023/11/24
12	AD (2023/11/24)	2023/11/24

空港詳細

RJTT-TOKYO INTERNATIONAL

AIP

基本情報 運航情報 気象情報 航空情報

J0946/23

281214 RJAAANYX (J0946/23 NOTAMN
Q)RJJJ/QMRLT/IV/NBO/A/000/999/3533N13947E005 A)RJTT B)2309281119
C)2310312359 E)RWY 05/23-RESTRICTED DUE TO SN REMOVAL TEST)

J0950/23

281220 RJAAANYX (J0950/23 NOTAMN

NOTAM extraction period screen

NOTAM抽出期間

抽出期間を指定し、「確定」ボタンを押下してください。

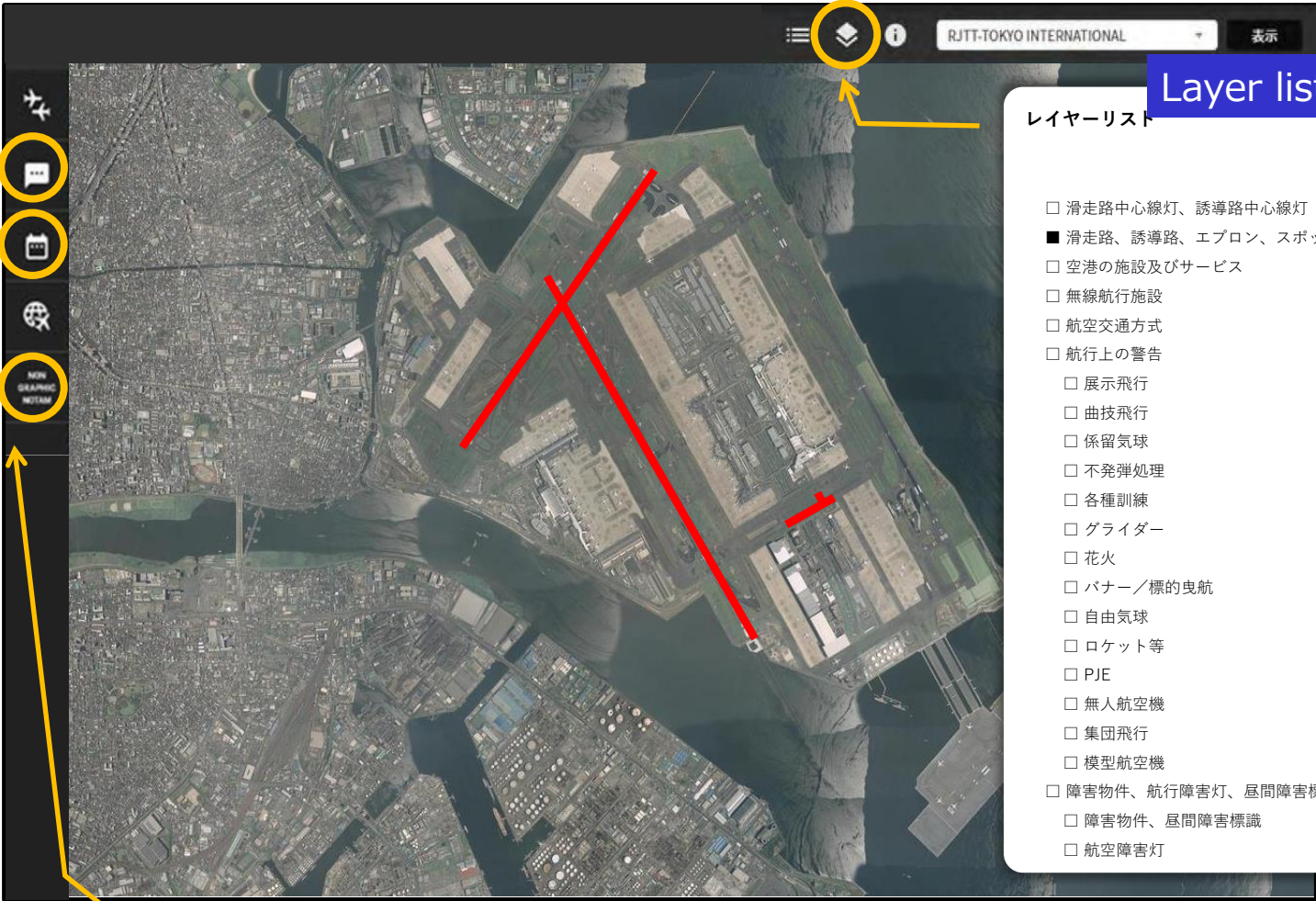
From

2023/11/24 11:22

To

2023/11/25 11:22

確定



Non-graphic NOTAM

RJTT

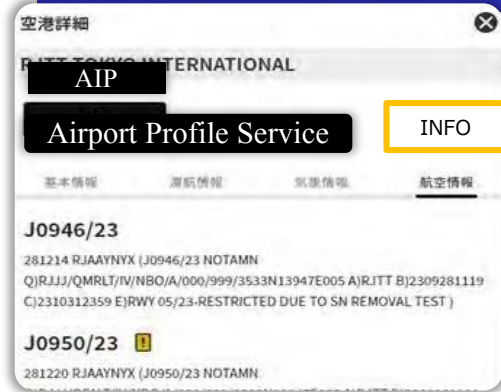
J1716/24 290830 RJAAANYX
J1716/24 NOTAMN
Q)RJJJ/QLTAS/IV/BO/A/000/999/3533N13947E005
A)RJTT B)2409041500 C)2410301500
E) RTHL FOR RWY23-U/S

J2021/24 180658 RJAAANYX
J2021/24 NOTAMN
Q)RJJJ/QCDAS/IV/BO/A/000/999/3533N13947E005
A)RJTT B)2410301400 C)2410302000
E)DEPARTURE CLEARANCE BY DATA LINK (DCL)-U/S DUE TO MAINT
RMK/USE VOICE COM DRG THIS PERIOD)

*This image might be changed.

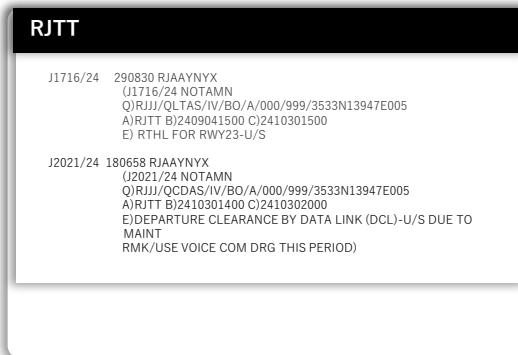
Airspace Profile Service

Airport details screen

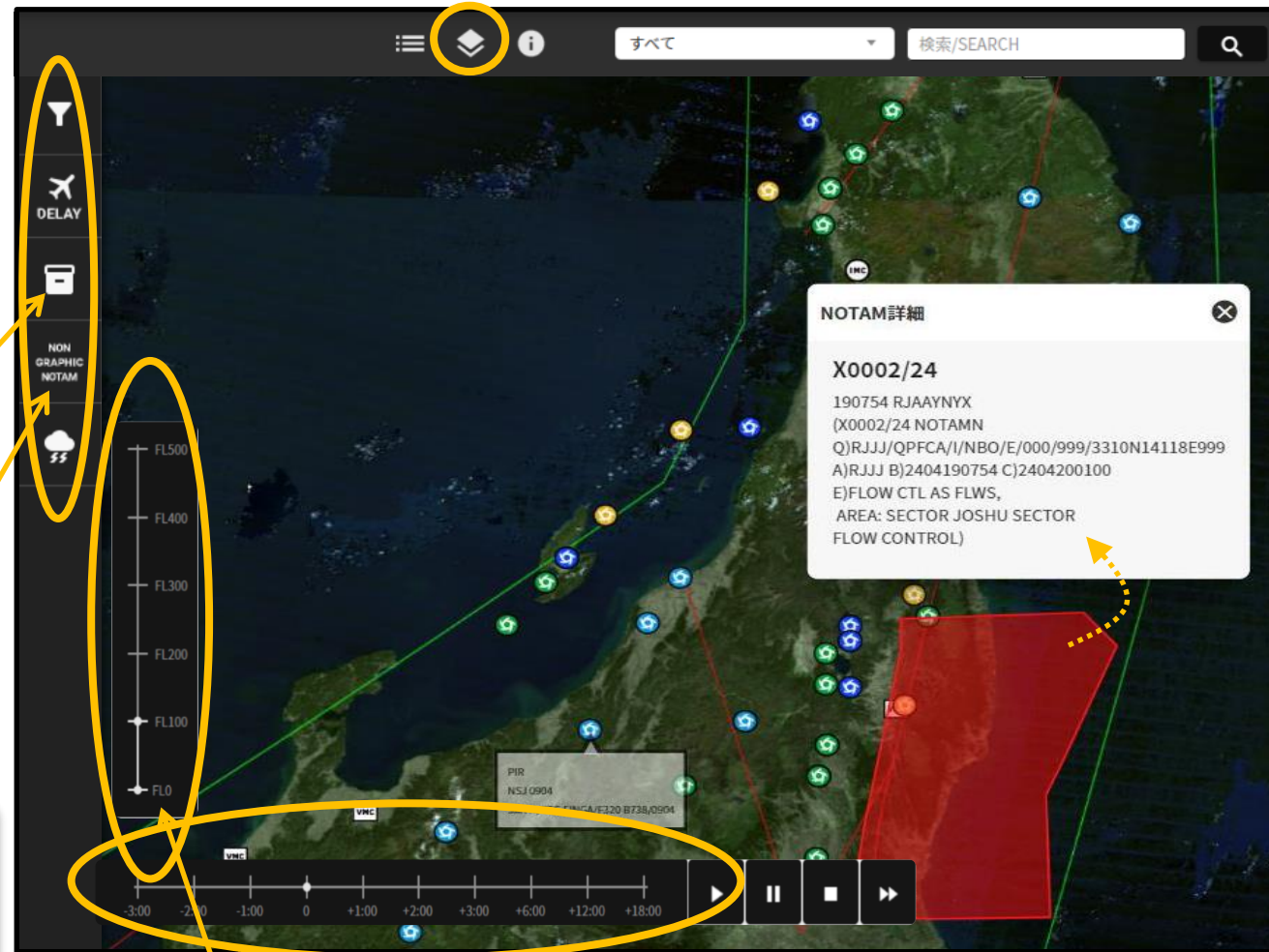


Display PKG extraction screen.

Display Non-graphic NOTAMs.



Layer List



Slider : Set altitude and time

Basic information and valid NOTAMs are displayed as symbols or polygons.

*This image might be changed.

Airspace Profile Service

PKG Extraction allows you to extract NOTAM in 4 different ways

The screenshot displays the '空域プロフィールサービス' (Airspace Profile Service) interface. On the left, a sidebar contains icons for DELAY, NOTAM, and a magnifying glass. The main area shows a map with a flight plan overlay. Four extraction methods are highlighted with blue labels:

- Flight Plan type**: A form titled 'PKG抽出条件入力' (PKG Extraction Condition Input) with fields for departure airport, start time, route, destination airport, required time, alternate airport, altitude, and FIR. A '抽出' (Extract) button is at the bottom.
- Airport type**: A form titled 'PKG抽出条件入力' (PKG Extraction Condition Input) with fields for extraction period and airport (RJTT-TOKYO INTERNATIONAL, ROAH-NAHA). A '抽出' (Extract) button is at the bottom.
- Route type**: A form titled 'PKG抽出条件入力' (PKG Extraction Condition Input) with fields for extraction period and altitude. A 'ルート(線)描画へ' (Go to Route (Line) Drawing) button is at the bottom.
- Area type**: A form titled 'PKG抽出条件入力' (PKG Extraction Condition Input) with fields for extraction period and altitude. Buttons for 'エリア(多角形)描画へ' (Go to Area (Polygon) Drawing) and 'エリア(円)描画へ' (Go to Area (Circle) Drawing) are at the bottom.

A yellow arrow points from the extraction forms to the 'PKG抽出情報' (PKG Extraction Information) panel. This panel shows a list of NOTAMs. The entry 'J5617/23' is highlighted with a yellow circle and a magnifying glass icon. A yellow callout box points to this icon with the text 'Click the icon to zoom in.'

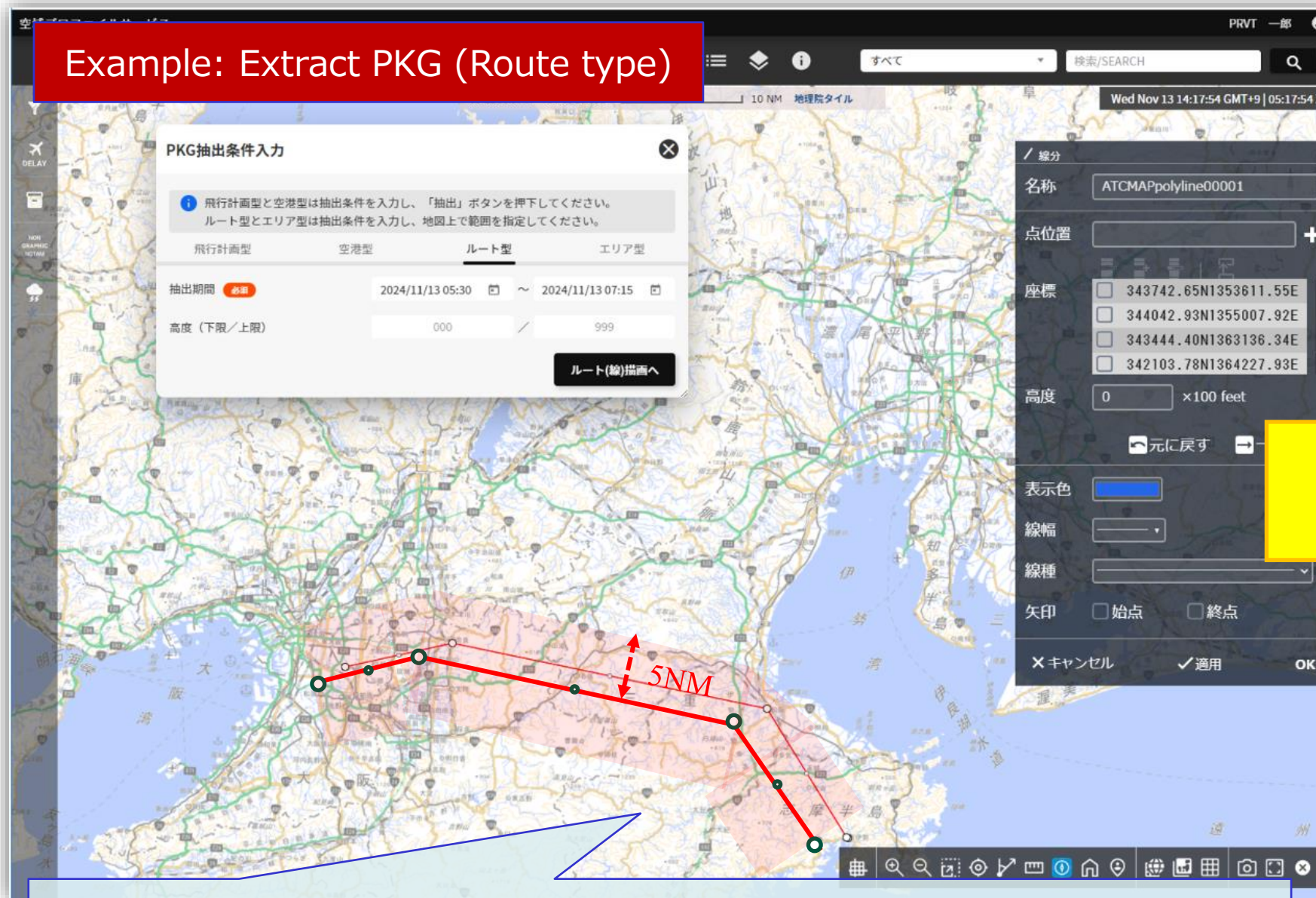
PKG抽出情報

NOTAM	気象情報
RJJJ	
RJTD	
RJTT	
J5617/23	
271851 RJAA NYX (J5617/23 NOTAMN Q)RJJJ/QNDCT/IV/BO/E/000/999/3534N13947E025 A)RJTT B)2307280447 C)2309302359 E)HANEDA DME/HME ON TEST, DO NOT USE. FALSE INDICATIONS POSSIBLE. DUE TO MAINT)	
RJAA	

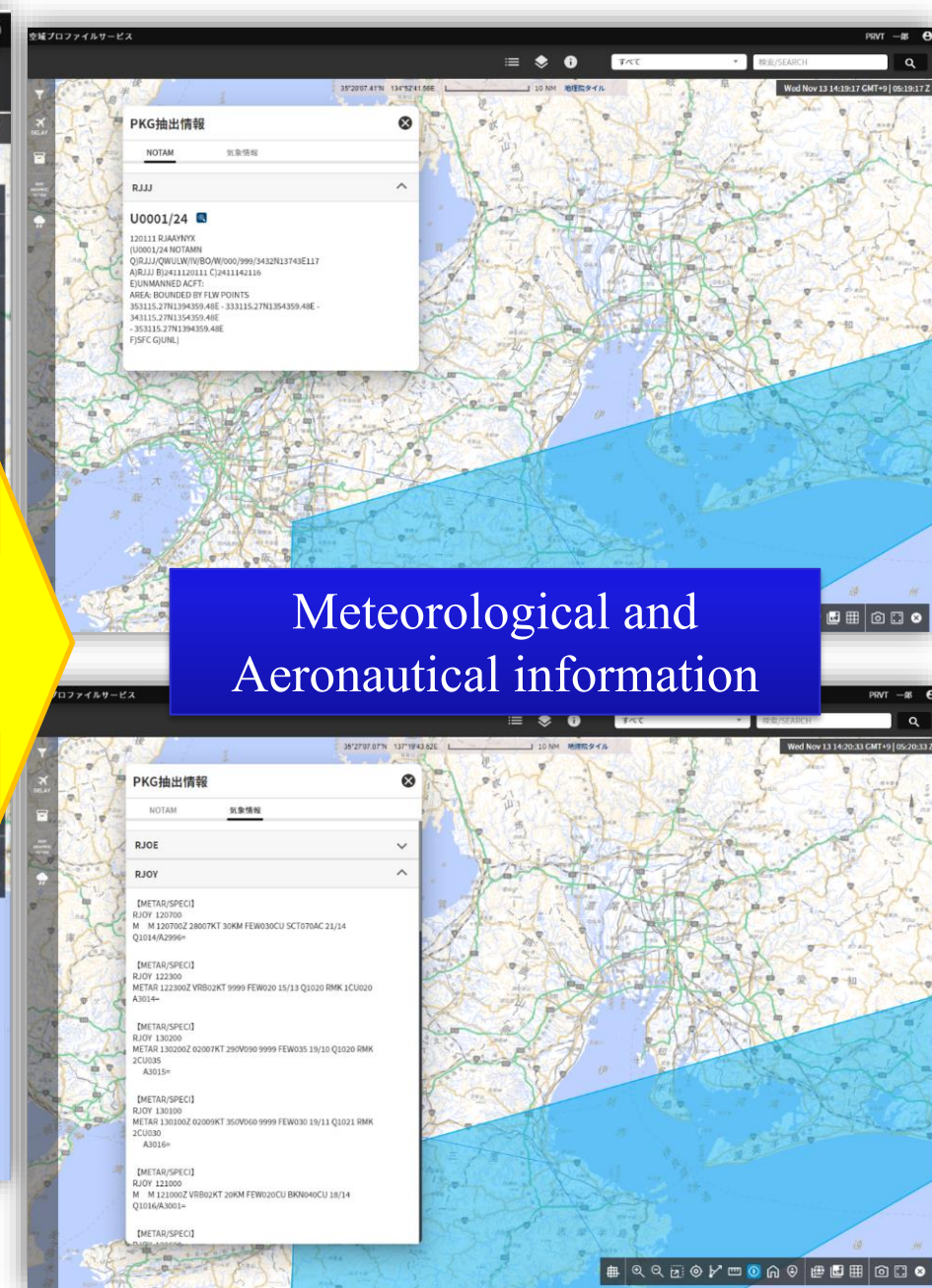
*This image might be changed.

Airspace Profile Service

Example: Extract PKG (Route type)



It is possible to draw a line along the route you plan to fly and extract meteorological and aeronautical information related to the route.



*This image might be changed.

Digital NOTAM Registration Service

By registering frequently used cases as templates using basic scenarios, you can streamline the work related to issuance requests.

Scenario Type	ID	Base Template Name
Aerodrome / Heliport	1	Aerodrome / heliport closures and restrictions
	2	Runway closures and restrictions
Aircraft movement area	3	Taxiway closures and restrictions
	4	Apron closures and restrictions
	5	Spot closures and restrictions
SNOWTAM	6	SNOWTAM
	7	Taxiway / apron braking action
Airfield lights and daytime obstacle markings	8	Runway centerline lights out of function
	9	Taxiway centerline lights out of function
	10	Obstruction lights out of function
	11	Daytime obstruction sign outage
Air Safety Radio Facility	12	Air Navigation aids (ILS) operation suspended and test radio wave transmission
	13	Air Navigation aids (other than ILS) and test radio wave transmission
	14	RAIM prediction information, etc.
Obstruction	15	Obstruction
	16	Obstructions (passage of ships published in AIP)
Actions that may affect aircraft navigation, etc.	17	Use of public airspace
	18	Actions that may affect aircraft navigation
Traffic flow control	19	Traffic flow control
Air Route	20	Operation of CDR2
	21	Setting up PACOTS
Other events	22	Other events
	23	Other events (special)



滑走路 必須

運用状態 必須

閉鎖・制限理由

除外/制限事項

備考

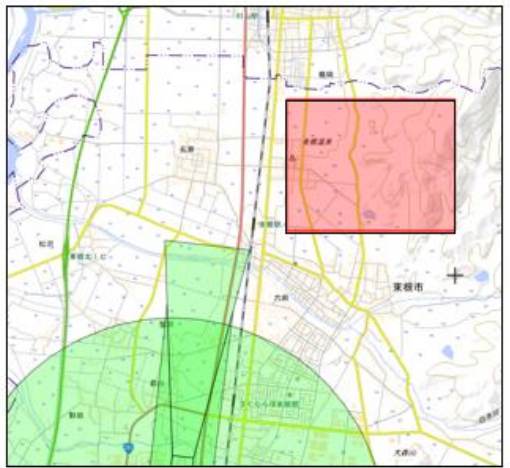
18R/36L

●閉鎖 ○制限

メンテナンスのため:DUE TO MAINT

EXC ACFT WITH PRIOR PERMISSION AT LEAST 1HR BFR.

Activity AEROBATICS



Polygon

Cercle

Corridor

Other

Coordinate

382800N1402322E

382800N1402500E

382700N1402500E

382700N1402322E

Shown

Digital NOTAM Registration Service

ノータム依頼状況一覧

シナリオ種別

ALL

発行依頼状態

☐ 発行依頼中 ☐ 発行済み ☐ 再確認依頼 ☐ エラー ☐ 一時保存

有効期間

~

表示データ

☒ 最新の有効データのみ表示 ☐ すべて表示

Search

検索

発行依頼一覧

選択	優先度	発行依頼 状態	ローケ ション	シナリオ 種別	発行依頼日時 (UTC)	ノータム発行日時 (UTC)	本文	ノータム番号 (国際/国内)	更新・取消 ノータム番号 (国際/国内)	有効開始日時 (UTC)	有効終了日時 (UTC)	発行依頼者 コメント	AISC コメント
☒		発行済み	ROAH	航空機移動区域	2024/09/16 07:03	2024/09/16 07:04	RWY 18L/36R-CLSD DUE TO FLOOD	ROAH A0001/24 (ROAH 0001/24)		2024/09/16 07:04	2024/09/16 09:32EST		
☐		発行依頼中	RJDR	空域・航空機の航行 等に影響を及ぼす恐 れのある行為等	2024/09/16 07:37		UNMANNED ACFT:			2024/09/18 06:00	2024/09/18 08:00		
☐	再確認 再確認	再確認依頼	RJDR	空域・航空機の航行 等に影響を及ぼす恐 れのある行為等	2024/09/16 07:57		UNMANNED ACFT:			2024/09/18 21:04	2024/09/19 09	ます。	差し戻してしまし た。

ICAO format field

ICAO形式

160704 RJAAANYX
(A0001/24 NOTAMN
Q)RJJJ/QMRLC/IV/NBO/A/000/999/2612N12739E005
A)ROAH B)2409160704 C)2409160932EST
E)RWY 18L/36R-CLSD DUE TO FLOOD)

Create new

削除

編集

取消

変更

新規

参照

- ◆Search
You can check information about NOTAM requests for the past five years. You can also check cancellation NOTAMs.
- ◆List of issuance requests
Search results are displayed and automatically updated at regular intervals (every 30 seconds). Highlighted display will alert you to the results.
- ◆ICAO format
When you select an issued NOTAM, the text of that NOTAM will be displayed in the "ICAO format" field.

DISCUSSION : Challenges

Coordination and consideration regarding user's systems

- It is not possible to update all user systems simultaneously to start using AIXM 5.1.1 data.
 - Need to generate legacy NOTAM from Digital NOTAM.
- Many users are unfamiliar with AIXM.
 - Support AIXM understanding, by providing sample data and conducting visualization demonstrations.

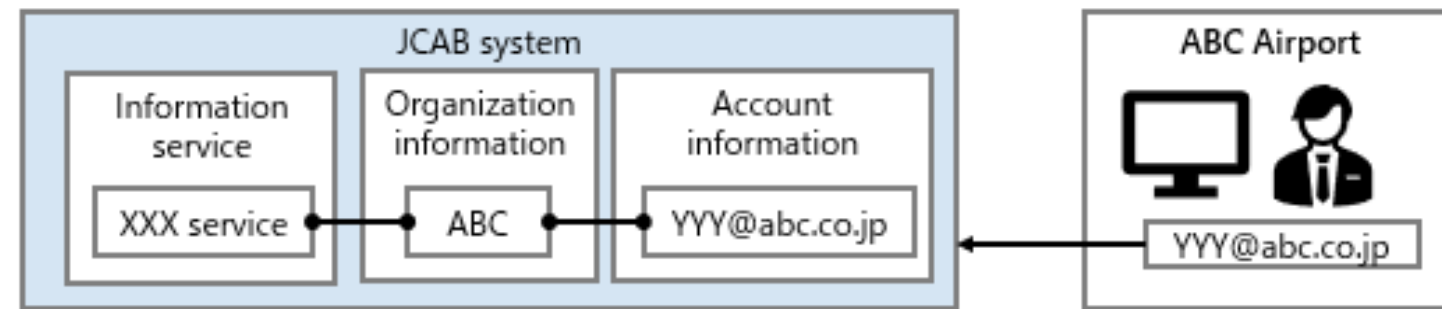
The necessity of pre-release

- Current AIS-JAPAN website and are widely used.
 - Need to provide a trial use.
 - Coordinate with the parties concerned, especially ATS units.

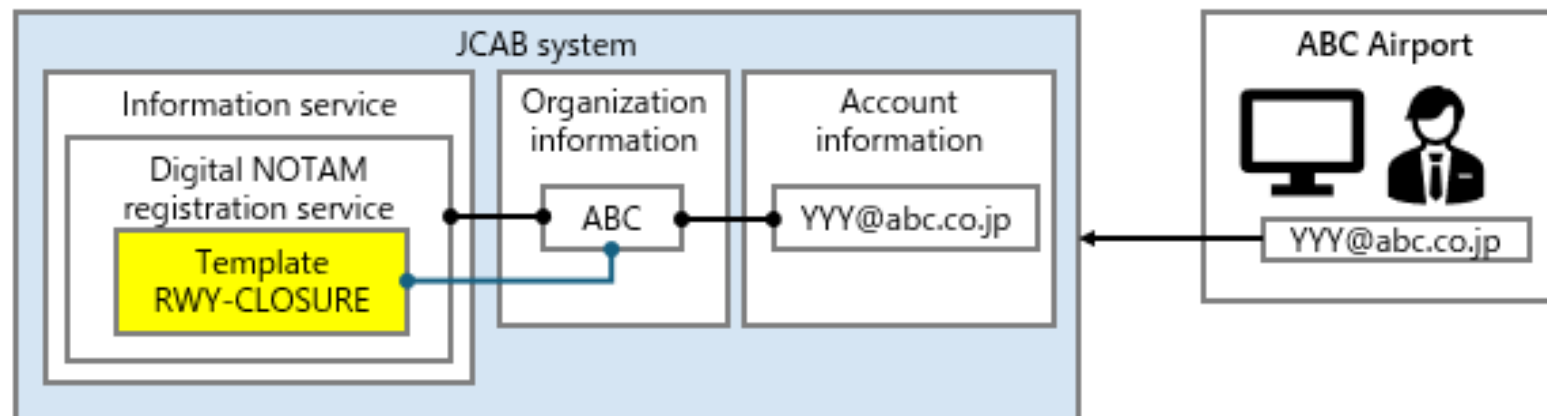
DISCUSSION : Challenges

Mechanism for granting access permission to information services

- Access permissions to each information service are granted based on the organization to which the user belongs.



- Only authorized organizations are allowed to use Digital NOTAM Registration service



- The service provider define the access permission criteria.
- The service provider carry out the authorization process upon request.

Thanks so much!

