

State of Qatar Update on

ASBU DAIM Implementation & National AIM Roadmap

Presentation Contents

- 01** ASBU DAIM Implementation Status
- 02** National AIM Implementation Roadmap
- 03** AIM Deficiencies
- 04** Status of EAD Migration
- 05** Roadmap (Next Milestones), Challenges & Mitigations

ASBU DAIM Implementation Status

<p>DAIM B1/1</p> <p>PROVISION OF QUALITY-ASSURED AERONAUTICAL DATA AND INFORMATION</p> <ul style="list-style-type: none">✓ AIM automated data-centric environment based✓ Formal arrangements with data originators	<p>DAIM B2/1</p> <p>DISSEMINATION OF AERONAUTICAL INFORMATION IN A SWIM ENVIRONMENT</p> <ul style="list-style-type: none">✓ Aeronautical SWIM services (Digital Datasets; DNOTAM) – 30 Jan 2025	<p>DAIM B2/6</p> <p>PROVISION OF DIGITAL AERONAUTICAL INFORMATION PUBLICATION (AIIP) DATA SETS</p> <ul style="list-style-type: none">✓ AIP data provision established – 23 Jan 2025	<p>DAIM B2/7</p> <p>PROVISION OF DIGITAL TERRAIN DATA SETS (GEOTIFF)</p> <ul style="list-style-type: none">✓ Terrain data provision established for Area 1, Area 2, and Area 4 – 20 Mar 2025
<p>DAIM B2/8</p> <p>PROVISION OF DIGITAL OBSTACLE DATA SETS (AIXM 5.1)</p> <ul style="list-style-type: none">✓ Obstacle data provision for Area 1, Area 2, Area 3, Area 4, and OLS/ Take-off Flight Path Area – 20 Mar 2025	<p>DAIM B2/9</p> <p>PROVISION OF DIGITAL AERODROME MAPPING DATA SETS</p> <ul style="list-style-type: none">✓ AD mapping data migration○ Data validation/verification ongoing	<p>DAIM B2/10</p> <p>NOTAM IMPROVEMENTS</p> <ul style="list-style-type: none">✓ Digital NOTAM system established – 06 Oct 2022	<p>DAIM B3/1</p> <p>PROVISION OF DIGITAL INSTRUMENT FLIGHT PROCEDURE DATA SETS</p> <ul style="list-style-type: none">✓ IFP data migration○ Data validation/verification ongoing

 Implemented  In Progress



Aeronautical SWIM Service



Aeronautical Information Circular (AIC 04/2024), dated 28 Nov 2024, outlined the planned implementation of the -

- Digital NOTAM Subscription Service (via AMQP)
- Aeronautical Data Set Information Service via HTTPS

The screenshot displays the 'Service Registry' web application interface. The header includes the CAA logo and navigation links for Home, Entities, and Account. The main content area is titled 'Service Instances' and features a table with two entries. Each entry includes an ID, a banner icon, a name, an instance ID, a version, an abstract description, keywords, a producer, and a 'SWIM Service Registry Information' section with 'View', 'Edit', and 'Delete' buttons.

ID	Banner	Name	Instance Id	Instance Version	Abstract Service Instance	Keywords	Producer	SWIM Service Registry Information
1807		Digital NOTAM Subscription Service via AMQP	2bff59bc-2cf8-410f-811c-5f48194d6810	1.0	After a subscription to the service and connecting via AMQP the user will receive AIXM data as soon as new data is provided.	AMQP AIXM DNOTAM	QCAA	Digital NOTAM Subscription and Request Service via AMQP
1808		Aeronautical Data Set Information Service via HTTPS	49ca49fe-77b2-4942-aa01-4b1f862e9b52	1.0	After a registration the user is able to download Aeronautical Data Sets from a webpage.	HTTPS AIXM	QCAA	Aeronautical Data Set Information Service via HTTPS

Showing 1 - 2 of 2 items.

AIP Data Set



Aeronautical Information Circular (AIC 03/2024), dated 28 Nov 2024, outlined the planned implementation of aeronautical data set information service

DATA VALIDATION/VERIFICATION

- ✓ Internal
(AIXM schema, Data quality, Consistency, Completeness, Geographic metadata)
- ✓ External (Data User/Consumer)
(Import issues, AIXM schema, Missing links, Geometry completeness, AIXM business rules)

DATA PROVISION/DISTRIBUTION

- ✓ Workflow Management System (Dataset Exporter)
- ✓ Digital Data Overview Page
(Data Product Specification, AIXM file, SHA256 checksum, Inventory, Web portal)
- ✓ Data sets via HTTPS using any internet browser or script

Publication Date	Effective Date	FULL BASELINE Data Set Files	BASELINE UPDATE Data Set Files
21-Mar-2026	16-Apr-2026	AIXM File SHA256 Checksum Inventory Web Portal	
	19-Mar-2026	AIXM File SHA256 Checksum Inventory Web Portal	AIXM File SHA256 Checksum Inventory Web Portal
	19-Feb-2026	AIXM File SHA256 Checksum Inventory Web Portal	
	22-Jan-2026	AIXM File SHA256 Checksum Inventory Web Portal	AIXM File SHA256 Checksum Inventory Web Portal
	25-Dec-2025	AIXM File SHA256 Checksum Inventory Web Portal	

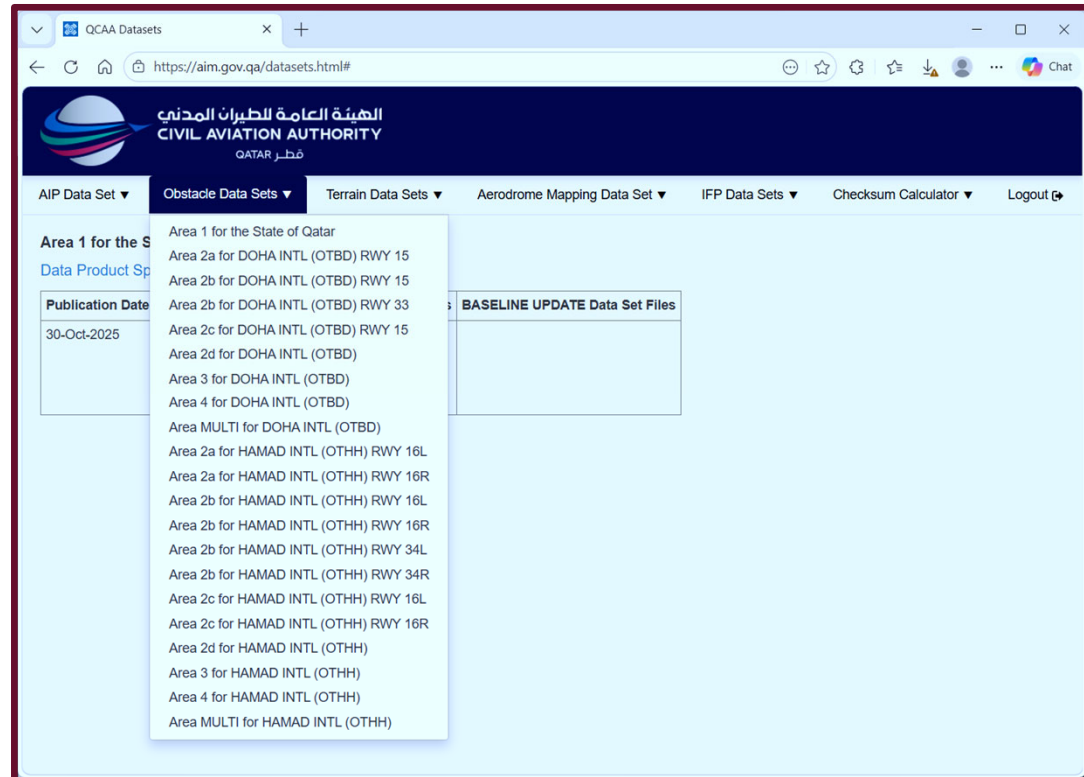
Obstacle Data Sets

DATA VALIDATION/VERIFICATION

- ✓ Internal
(AIXM schema, Data quality, Consistency, Completeness, Geographic metadata)
- ✓ External (Data User/Consumer)
(Import issues, AIXM schema, Missing links, Geometry completeness, AIXM business rules)

DATA PROVISION/DISTRIBUTION

- ✓ Workflow Management System (Dataset Exporter)
- ✓ Digital Data Overview Page
(Data Product Specification, AIXM file, SHA256 checksum, Inventory, Web portal)
- ✓ Data sets via HTTPS using any internet browser or script



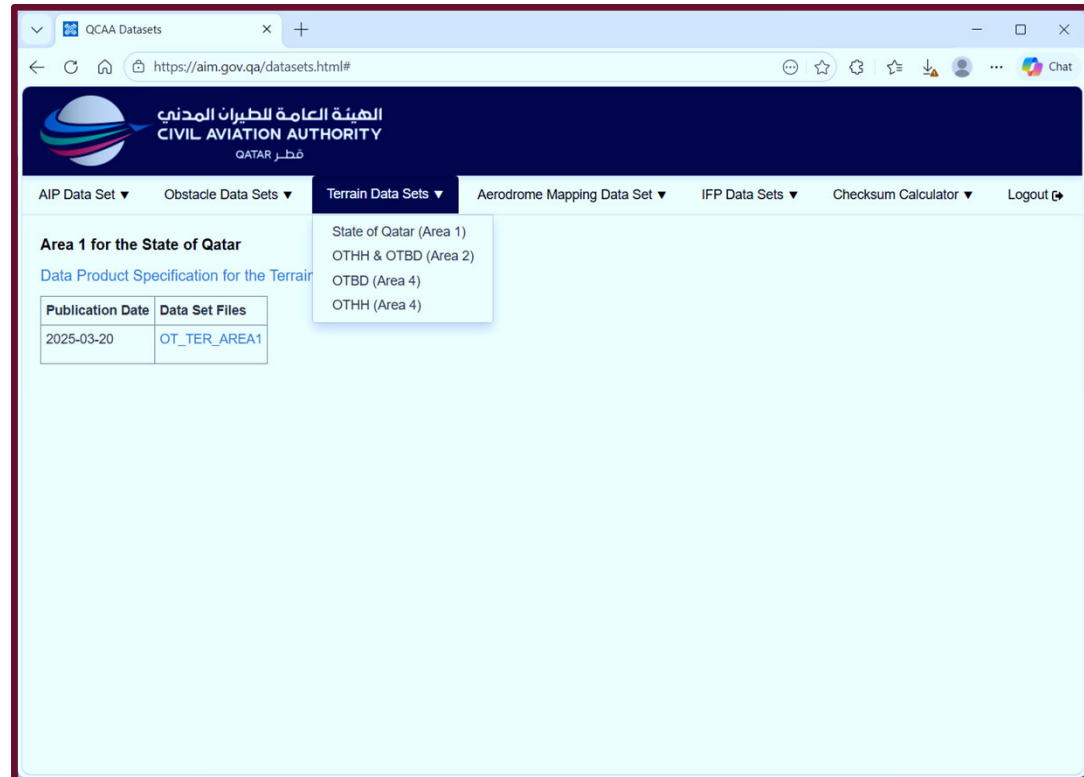
Terrain Data Sets

DATA VALIDATION/VERIFICATION

- ✓ Internal
(data quality, data attributes, consistency, completeness, geographic metadata)

DATA PROVISION/DISTRIBUTION

- ✓ Workflow Management System (Dataset Exporter)
- ✓ Digital Data Overview Page
(Data Product Specification, GeoTIFF)



The screenshot shows the QCAA Datasets website interface. The header includes the QCAA logo and the text "الهيئة العامة للطيران المدني CIVIL AVIATION AUTHORITY QATAR قطر". The navigation menu includes "AIP Data Set", "Obstacle Data Sets", "Terrain Data Sets", "Aerodrome Mapping Data Set", "IFP Data Sets", "Checksum Calculator", and "Logout". The "Terrain Data Sets" menu is open, showing options for "State of Qatar (Area 1)", "OTHH & OTBD (Area 2)", "OTBD (Area 4)", and "OTHH (Area 4)". Below the menu, the page displays "Area 1 for the State of Qatar" and "Data Product Specification for the Terrain". A table shows the following data:

Publication Date	Data Set Files
2025-03-20	OT_TER_AREA1

Qatar National AIM Implementation Roadmap

Phase/Step	Timeline													Start	End	Remarks	
	2019-	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031				2032+
WGS-84															2009	2009	
AIRAC															2010	2010	
QMS															2010	2011	
AIXM database (AIXM 5.1+)															2016	2018	
eAIP															2013	2014	
Terrain Area 1															2009	2009	Terrain Dataset (GeoTIFF) - implemented 20 Mar 2025
Obstacle Area 1															2009	2009	Obstacle Dataset (AIXM 5.1) - implemented 20 Mar 2025
Terrain Area 2a (plus TKOF flight path and OLS)															2013	2013	Terrain Dataset (GeoTIFF) - implemented 20 Mar 2025
Obstacle Area 2a (plus TKOF flight path and OLS)															2013	2013	Obstacle Dataset (AIXM 5.1) - implemented 20 Mar 2025
Terrain Area 2b, 2c, 2d															2013	2013	Terrain Dataset (GeoTIFF) - implemented 20 Mar 2025
Obstacle Area 2b, 2c, 2d															2013	2013	Obstacle Dataset (AIXM 5.1) - implemented 20 Mar 2025
Terrain Area 3															2009	2009	Terrain Dataset (GeoTIFF) - implemented 20 Mar 2025
Obstacle Area 3															2013	2013	Obstacle Dataset (AIXM 5.1) - implemented 20 Mar 2025
Terrain Area 4															2009	2009	Terrain Dataset (GeoTIFF) - implemented 20 Mar 2025
Obstacle Area 4															2009	2009	Obstacle Dataset (AIXM 5.1) - implemented 20 Mar 2025
AIP Datasets															2015	2025	AIP Dataset provision - implemented 23 Jan 2025
Aerodrome Mapping Datasets															2017	2026	AMD validation ongoing - Q4/2026
IFP Datasets															2016	2027	IFP-AIMDB integration - Q4/2027
Agreement with data originators															2010	2012	
Provision of quality-assured aeronautical data and information															2009	2011	
Training															2013	2015	
NOTAM Improvements															2019	2022	Digital NOTAM - implemented 06 Oct 2022
Aeronautical data exchange															2016	2025	Digital data exchange with data originators - Q4/2026
Dissemination of Aeronautical Information in SWIM environment															2019	2025	Aeronautical SWIM Services - implemented 30 Jan 2025
Electronic aeronautical charts															2016	2026	Data-driven chart production - Q4/2026
Interoperability with MET products																	
Aeronautical information briefing															2014	2014	

1	Not Started
2	In Progress
3	Implemented



Qatar AIM Deficiency

- No deficiencies identified
- Confirmed by recent regulatory audit
- Compliant with ICAO Annex 15 and national requirements



Status of EAD Migration

Step	Milestone	Status
1	Letter of Intent to EAD	✓
2	Provision of AN charges figures	✓
3	Receipt of service cost estimation	✓
4	EAD Agreement signed	✓
5	Migration & Transition Plan	●
6	Migration started	—
7	Migration completed	—

Legend: ✓ Completed ● In progress — Pending

Roadmap (Next Milestones), Challenges & Mitigations

- 2026
 - ↳ Implementation of Electronic AIP Second Edition
 - ↳ Digital data exchange with data originators
 - ↳ Implementation of data-driven charts
 - ↳ Aerodrome mapping datasets provision
- 2027
 - ↳ Integration of IFP system with Central AIM database

Challenge	Mitigation
Integration with data originators	Establish clear coordination procedures and automated data exchange protocols
IFP integration timeline	Plan phased integration and monitor progress closely with stakeholders



الهيئة العامة للطيران المدني
Civil Aviation Authority

دولة قطر • State of Qatar

Qatar continues to advance toward a fully digital, service-oriented AIM environment aligned with ASBU DAIM and MID Strategy