



Airside Sync Data Sheet

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Contents

1 Client Specifications	3
1.1 Device Requirements	3
1.2 Network Requirements	3
1.3 External Interfaces & Integrations	3
1.4 Supported Languages	3
2 Server Specifications	4
2.1 Integration Protocols	4
2.2 Deployment & Hosting	5

1 Client Specifications

The Airside Sync client is the user-facing application running on a mobile device or desktop computer.

1.1 Device Requirements

Mobile

Phones and tablets are supported. Tablet devices are recommended for an improved user experience.

- iPad and iPhone devices running iOS 15.0 or newer
- Android tablets and phones running Android 11.0 or newer

Desktop

- Chrome or Edge browsers on Windows 10 or newer
- Safari, Chrome, or Edge browsers on macOS 11.0 or newer

1.2 Network Requirements

The Airside Sync client (mobile or desktop) requires an Internet connection with the ability to make unfiltered connections to the Airside Sync cloud service on port 443/TCP (HTTPS). WiFi or 4G (LTE) or better is recommended.

Protocols used:

- HTTP/2 over TLS (Transport Layer Security) version 1.3
- gRPC streaming

1.3 External Interfaces & Integrations

- WiFi or cellular data connection required
- Device-integrated GPS required for location-based services
- MD30 Interface to Vaisala Mobile Detector MD30
 - over Bluetooth (*Android only*)
 - over TCP via gateway¹ (*iOS and Android*)
- UMB to Lufft Mobile Advanced Road Weather Information Sensor (MARWIS)
 - over Bluetooth (*Android only*)
 - over TCP via gateway¹ (*iOS and Android*)

1.4 Supported Languages

The Airside Sync user interface is available in the following languages: Chinese, Dutch, English, French, German, Latvian, Romanian, Spanish, and Swedish.

¹ USR-W610 serial-to-WiFi gateway provided separately

2 Server Specifications

The Airside Sync server is the central component of the Airside Sync, generally provided as a cloud service.

2.1 Integration Protocols

REST API over HTTPS

Airside Sync provides an open API where clients may access historical data, update assessments, publish reports, etc. For the latest full specifications, please see <https://api.safe-sky.net/v1/openapi.html>.

SNOWTAM over AFTN

Airside Sync can send AFTN messages directly, without a specific integration with the aerodrome. Messages are delivered similar to any other external AFTN message.

- Safe Sky AFTN address: KEWRXAAS
- Safe Sky AFTN network partner: ARINC AviNet

Alternatively, Airside Sync can connect to an aerodrome-provided AFTN-over-IP gateway using either of the following protocols:

- GWDI AFTN Message Switch TCP/IP Protocol for Message Exchange (TCP/IP-ICD-1.2 18 June 2002)
- Frequentis smartMessenger AFTN over TCP/IP (ISD001_2_0004_2.2_ICD_AFTN_TCP_IP)

AMQP over TLS (AMQPS)

Airside Sync can publish reports on an AMQP message bus, conforming to the AMQP Messaging Service Binding of the SWIM-TI Yellow Profile.

- Client mode supported – end user connects to Safe Sky AMQP server
- Server mode supported – Safe Sky connects to end-user AMQP server
- SNOWTAM, RCR and ATIS transmitted as text and JSON
- SNOWTAM transmitted as AIXM 5.1

Email, SMS, and Fax

Airside sync can publish SNOWTAM, RCR and ATIS messages over email, SMS and fax.

- SNOWTAM, RCR and ATIS as plain text email, SMS, and fax
- SNOWTAM and RCR as PDF email attachment
- ATIS in voice synthesized format (MP3 or WAV) email attachment

OpenID Connect

Airside Sync uses standards-based OpenID Connect for authentication and authorisation. When deployed with the Airside Sync cloud service, the authentication provider is Microsoft Azure (Azure Active Directory B2C).

Airside Sync supports SSO from external OpenID Connect-conformant authentication systems².

METAR

Airside Sync automatically import the latest METAR for each client aerodrome.

RWIS

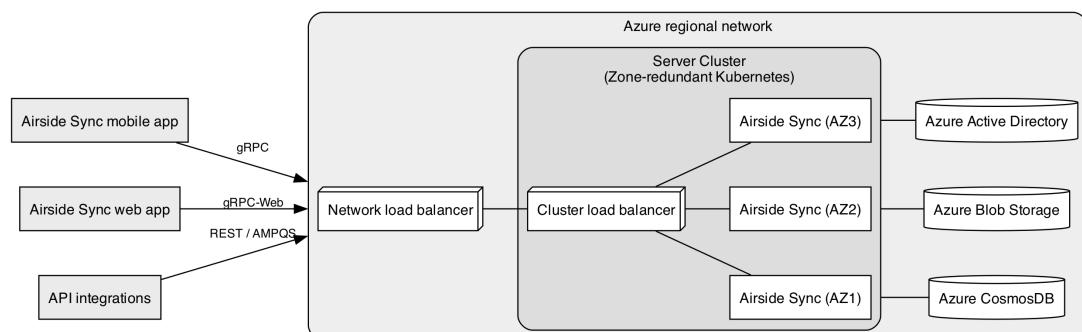
Airside Sync supports automatic import of runway weather data from the Vaisala Road & Runway Weather Station RWS200 system.

NavBlue RunwaySense

Airside Sync supports automatic import of airplane braking data (BACF) from supported aircraft models via the NavBlue RunwaySense system.

2.2 Deployment & Hosting

Airside Sync is deployed as a cloud service using Kubernetes, with service hosting is provided by Microsoft Azure.



Customer data is located in the following Azure data centers, depending on the customer location:

Table 1: Service regions

Customer region	Azure DC	Location
EU & the UK	“West Europe”	The Netherlands
Americas	“East US”	Virginia, USA
Asia Pacific	“Southeast Asia”	Singapore

² Available January 2026