



TRILLIUM AEROSPACE INC.

ADS-B^(OUT) Engineering Solutions



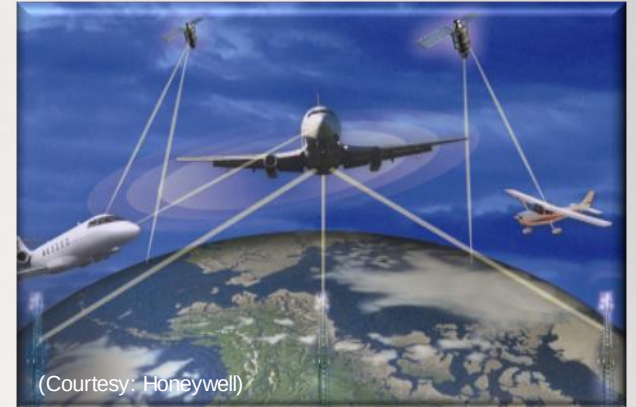
***Integrity, Unparalleled Experience And Your
Partner for ADS-B^(OUT) Engineering.***

ADS-B^(OUT) Engineering Solutions

ADS-B^(OUT)

Automatic Dependent Surveillance – Broadcast (Out)

- Aircraft ID
- Latitude / Longitude
- Altitude (Baro / Geometric)
- Velocity
- Quality and Integrity Data



ADS-B^(OUT) broadcasts information about each aircraft, such as identification, current position, altitude, and velocity, through an onboard transmitter. ADS-B Out provides air traffic controllers with real-time position information that is, in most cases, more accurate than the information available with current radar-based systems. With more accurate information, ATC will be able to position and separate aircraft with improved precision and timing.

ADS-B^(OUT) system relies on two main avionics components – a high-integrity GPS/SBAS navigation sensor and a Mode-S Transponder with Extended Squitter, operating at 1090 MHz. Additional Heading, Attitude, Air Data and cockpit control are required to fulfill the required parameters.

Honeywell® Primus II Suite ADS-B^(OUT)

REGION SPECIFIC ADS-B^(OUT) STANDARDS AND IMPLEMENTATION

Australia

- 2017
- ADS-B 1090 MHz Extended Squitter (DO-260, DO-260A or DO-260B).

Canada

- 2012, Hudson Bay.
- ADS-B 1090 MHz Extended Squitter (DO-260 or DO-260B)
- Operator must also be registered with NAV CANADA per requirements in Aeronautical Information Circular (AIC) 31/11.

Eurocontrol Region

- 2020
- ADS-B 1090 Mhz Extended Squitter (ED-102A/DO-260B)
- Only required for aircraft with a maximum takeoff weight of 5,700 kilograms (kgs) (12,566 pounds [lbs.]) or greater or maximum cruising true airspeed (TAS) greater than 250 knots true airspeed (KTAS).

Hong Kong

- 2016
- ADS-B 1090 MHz Extended Squitter (DO-260, DO-260A or DO-260B).

Indonesia and Singapore

- 2015
- ADS-B 1090 MHz Extended Squitter (DO-260, DO-260A or DO-260B).

Mexico

- 2020
- ADS-B 1090 Mhz Extended Squitter (DO-260B or DO-282B).

United States

- 2020
- ADS-B 1090 Mhz Extended Squitter or Universal Access Transceiver (DO-260B or DO-282B).

Vietnam

- December 2013
- ADS-B 1090 MHz Extended Squitter (DO-260, DO-260A or DO-260B)

Taiwan

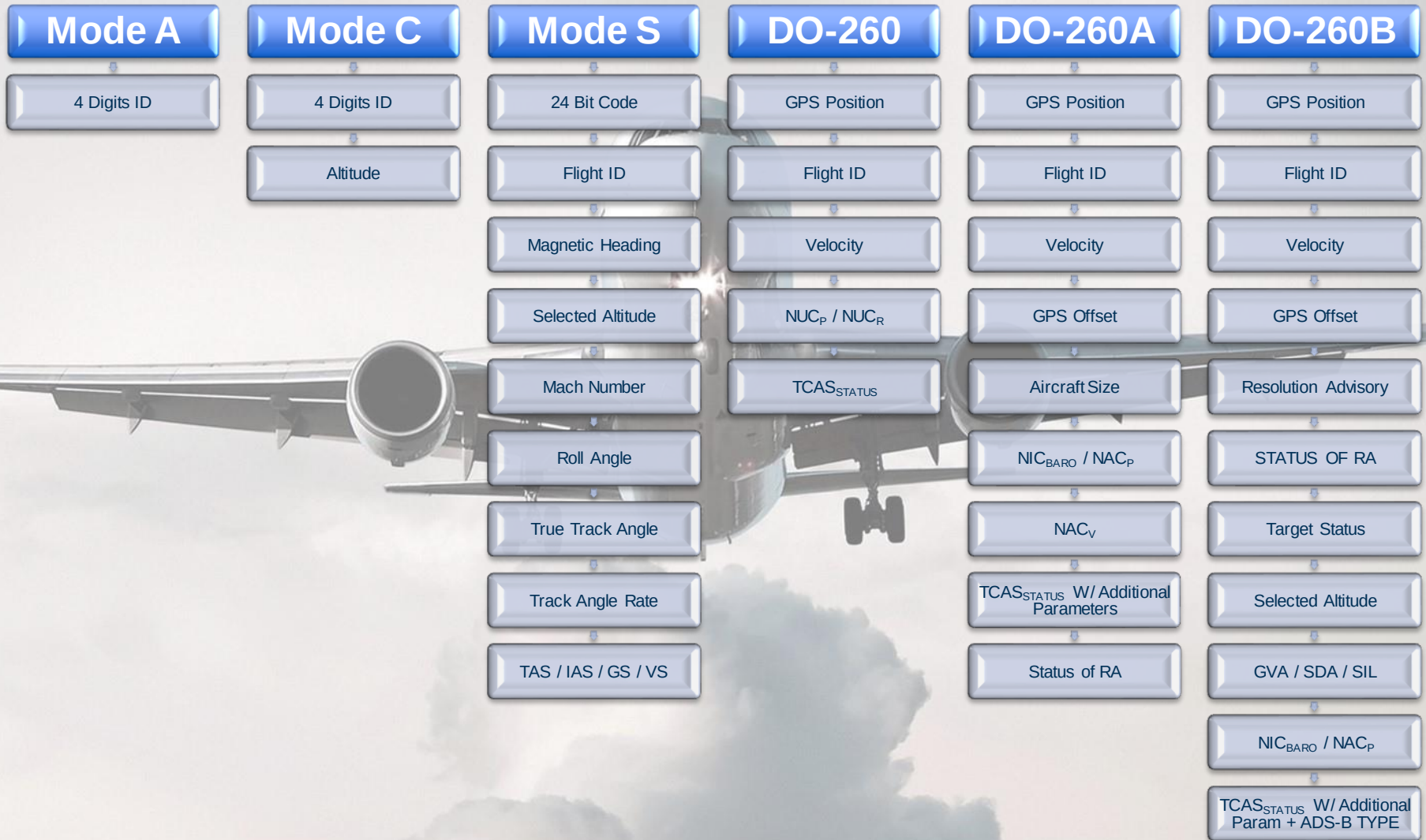
- December 2016.
- ADS-B 1090 MHz Extended Squitter (DO-260, DO-260A or DO-260B)



(Courtesy: Flying Magazine)

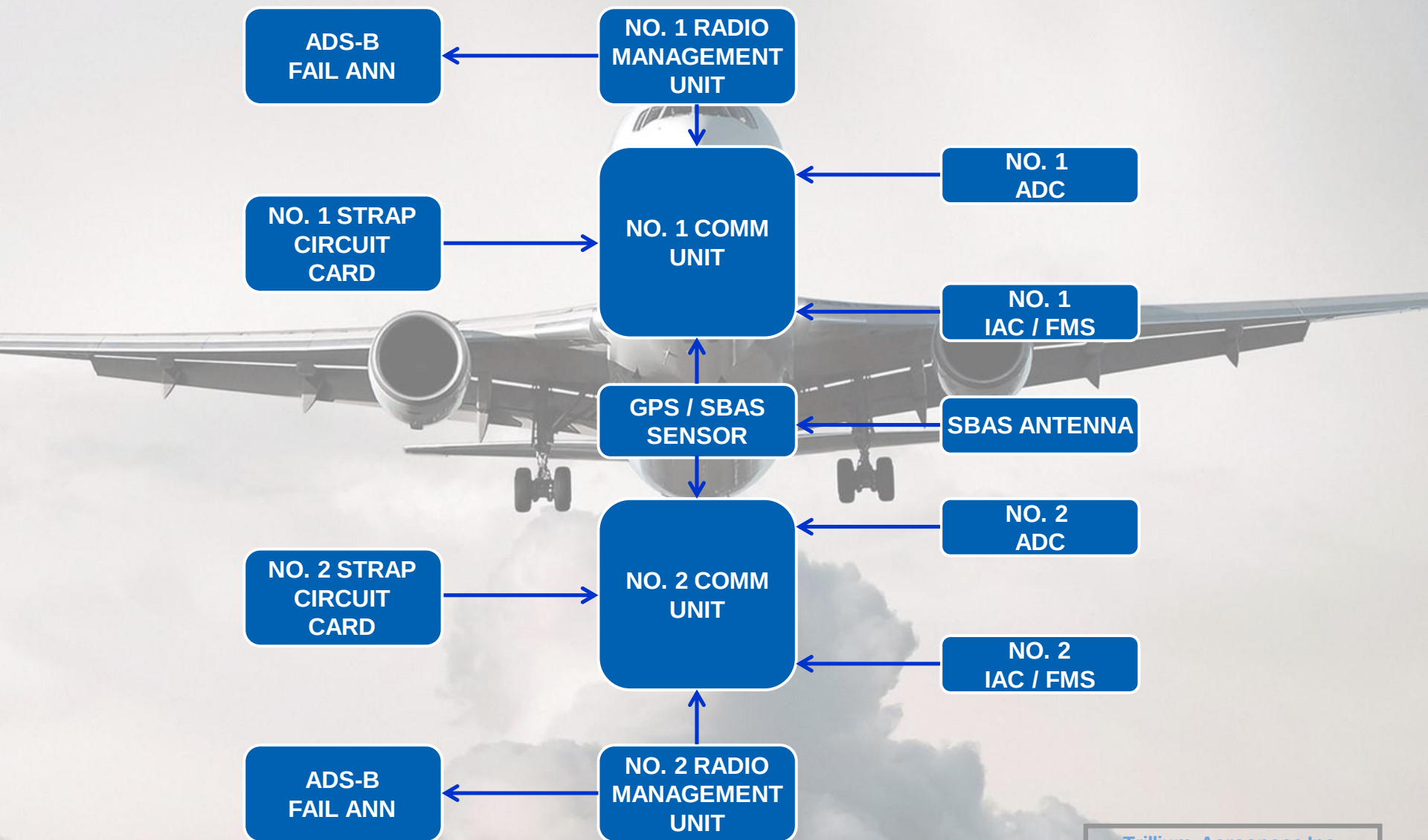
Rockwell Collins® TDR-94D ADS-B^(OUT)

TRANSPONDER EVOLUTION



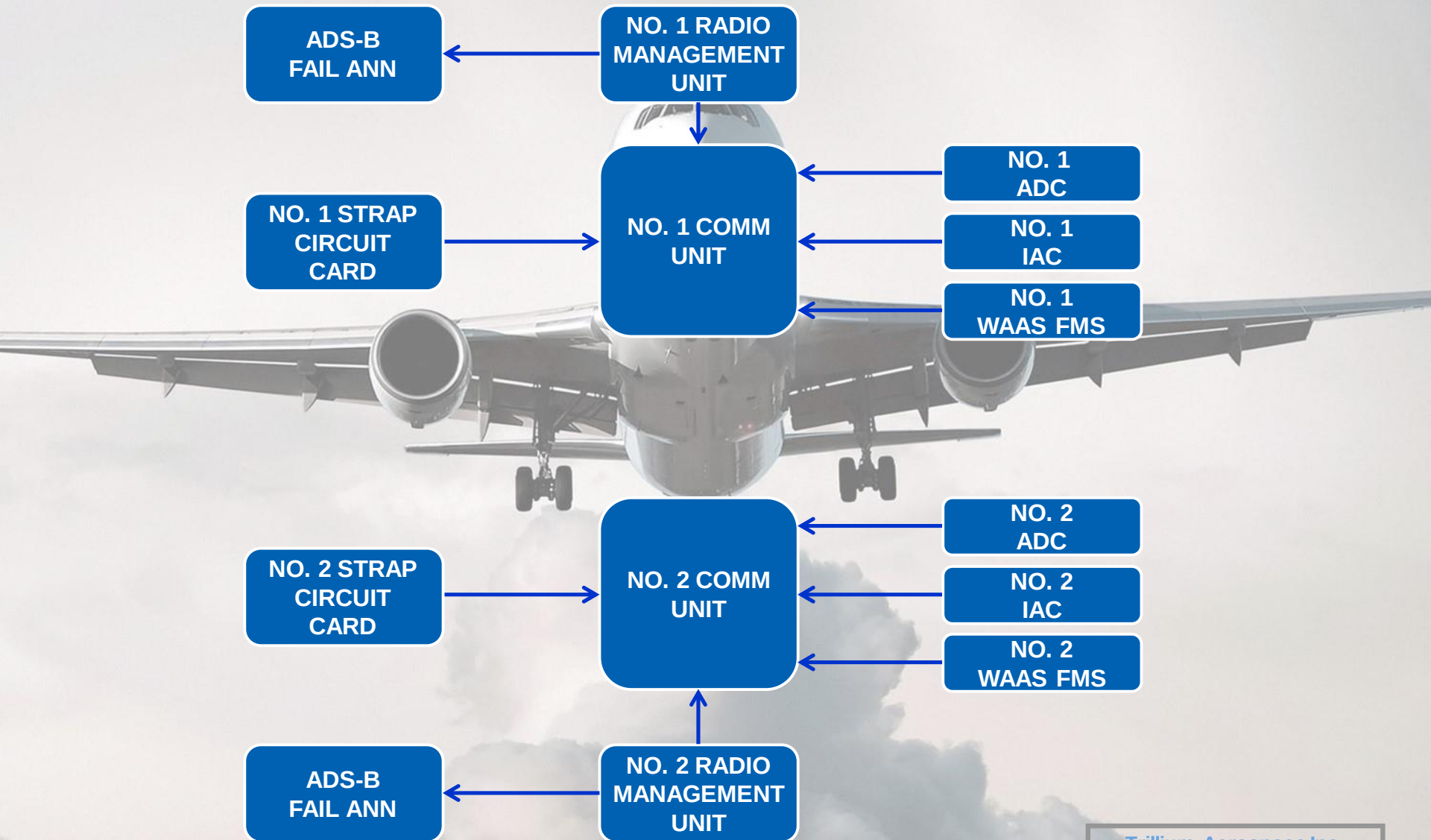
Honeywell® Primus II Suite ADS-B^(OUT)

SYSTEM BLOCK DIAGRAM (NEW GPS/SBAS SENSOR INSTALLED)



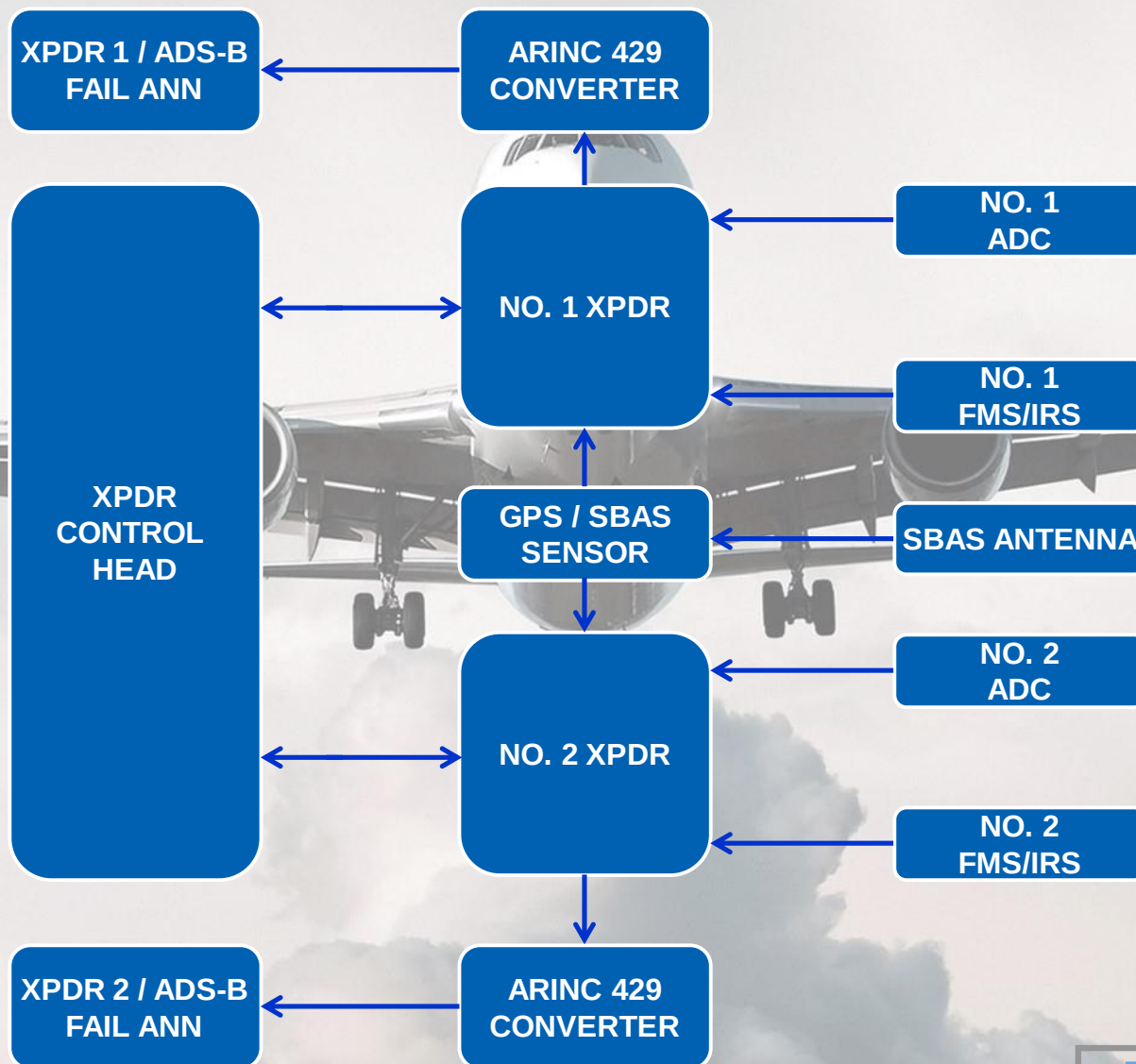
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SYSTEM BLOCK DIAGRAM (UTILIZE EXISTING WAAS FMS)



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