European Union Aviation Safety Agency

FAQ n.44269

FAQs:

ADS-B certification

Question:

What are the differences between CS-ACNS and AMC 20-24 regarding requirements for ADS-B?

Answer:

There are several differences in terms of parameters required, continuity of the function, ES version used, as shown in this non-exhaustive list:

	CS-ACNS	AMC 20-24
PARAMETERS		
ICAO 24 bit address	Mandatory	Mandatory
Aircraft identification	Mandatory	Mandatory
Mode A code (incl. disabling function)	Mandatory	Mandatory
Special position indication (SPI or IDENT)	Mandatory	Mandatory
Emergency status (incl. emgy indication)	Mandatory	Mandatory*
Barometric Pressure altitude (incl NICbaro	Mandatory	Mandatory
ADS-B version number	Mandatory, ≥ 2	Mandatory
Horizontal position (incl. NIC, NACp, SDA & SIL)	Mandatory	Mandatory*
Horizontal Velocity (E/W,N/S & Hdg/Trk gnd, HRD, NACv)	Mandatory	Recommended
Geometric Altitude (HAE) (incl. GVA)	Mandatory	Not Required
ADS-B Emitter category	Mandatory	Not Required
Aircraft length and width	Mandatory	Not Required
GNSS antenna offset	Mandatory	Not Required
Vertical rate (Hybrid, Baro, Baro-inertial or GNSS)	Mandatory	Not Required
Selected Altitude (MCP/FCU incl status)	If available	Not Required
Selected Heading	Not Required	Not Required
Barometric pressure setting	If available	Not Required
ACAS traffic status (incl. RA active (TCAS II) etc)	If available	Not Required
ACAS installed & operating RA capable (TCAS II)	If available	Not Required
CONTINUITY	'remote'	≤ 2E-4 / F.H.
INTEGRITY	'major' or 'minor' **	≤ 1E-5 / F.H. for hor. Pos.

*: permissible deviations exist

**: dependant upon the parameter. Some parameters are limited to minor due to the historical classification of mode A/C installations.

The term 'remote' corresponds to quantitative probability of 1E-5 / F.H.

The terms 'major' and 'minor' are Failure Condition classifications corresponding to quantitative probability objectives of respectively 1E-5 and 1E-3 / F.H.

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Link:

https://www.easa.europa.eu/en/faq/44269