

**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, $\geq 2$   | 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'              | $\leq 2E-4$ / F.H.                  |
| INTEGRITY                                               | 'major' or 'minor' ** | $\leq 1E-5$ / F.H.<br>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.

**Last updated:**

04/12/2017

**Link:**

<https://www.easa.europa.eu/el/faq/44269>