

# ICAO flight plan equipment code tables

## ICAO Equipment code

TBL 5-1-4

### Aircraft COM, NAV, and Approach Equipment Qualifiers

<p>INSERT one letter as follows:  N if no COM/NAV/approach aid equipment for the route to be flown is carried, or the equipment is unserviceable,  (OR)  S if standard COM/NAV/approach aid equipment for the route to be flown is carried and serviceable (see Note 1),  (AND/OR)  INSERT one or more of the following letters to indicate the COM/NAV/approach aid equipment available and serviceable:  <b>NOTE-</b>  <i>The capabilities described below comprise the following elements:</i>  a. Presence of relevant serviceable equipment on board the aircraft.  b. Equipment and capabilities commensurate with flight crew qualifications.  c. Where applicable, authorization from the appropriate authority.</p>			
A	GBAS landing system	J6	CPDLC FANS 1/A SATCOM (MTSAT)
B	LPV (APV with SBAS)	J7	CPDLC FANS 1/A SATCOM (Iridium)
C	LORAN C	L	ILS
D	DME	M1	ATC RTF SATCOM (INMARSAT)
E1	FMC WPR ACARS	M2	ATC RTF (MTSAT)
E2	D-FIS ACARS	M3	ATC RTF (Iridium)
E3	PDC ACARS	O	VOR
F	ADF	P1-P9	Reserved for RCP
G	(GNSS) – see Note 2	R	PBN approved - see Note 4
H	HF RTF	T	TACAN
I	Inertial navigation	U	UHF RTF
J1	CPDLC ATN VDL Mode 2 – see Note 3	V	VHF RTF
J2	CPDLC FANS 1/A HFDL	W	RVSM approved
J3	CPDLC FANS 1/A VDL Mode 4	X	MNPS approved
J4	CPDLC FANS 1/A VDL Mode 2	Y	VHF with 8.33 kHz channel spacing capability
J5	CPDLC FANS 1/A SATCOM (INMARSAT)	Z	Other equipment carried or other capabilities – see Note 5

**NOTE-**

- If the letter S is used, standard equipment is considered to be VHF RTF, VOR, and ILS within U.S. domestic airspace.
- If the letter G is used, the types of external GNSS augmentation, if any, are specified in Item 18 following the indicator NAV/ and separated by a space.
- See RTCA/EUROCAE Interoperability Requirements Standard For ATN Baseline 1 (ATN B1 INTEROP Standard – DO-280B/ED-110B) for data link services air traffic control clearance and information/air traffic control communications management/air traffic control microphone check.
- If the letter R is used, the performance-based navigation levels that are authorized must be specified in Item 18 following the indicator PBN/. For further details, see Paragraph 5-1-9 b 8, Item 18 (c) and (d).
- If the letter Z is used, specify in Item 18 the other equipment carried, preceded by COM/, DAT/, and/or NAV/, as appropriate.
- Information on navigation capability is provided to ATC for clearance and routing purposes.

**TBL 5-1-5**

**Aircraft Surveillance Equipment, Including Designators for Transponder, ADS-B, ADS-C, and Capabilities**

<i>INSERT N</i> if no surveillance equipment for the route to be flown is carried, or the equipment is unserviceable, OR <i>INSERT</i> one or more of the following descriptors, to a maximum of 20 characters, to describe the serviceable surveillance equipment and/or capabilities on board:	
<b>SSR Modes A and C</b>	
A	Transponder - Mode A (4 digits = 4096 codes)
C	Transponder - Mode A (4 digits = 4096 codes) and Mode C
<b>SSR Mode S</b>	
E	Transponder - Mode S, including aircraft identification, pressure-altitude and extended squitter (ADS-B) capability
H	Transponder - Mode S, including aircraft identification, pressure-altitude and enhanced surveillance capability
I	Transponder - Mode S, including aircraft identification, but no pressure-altitude capability
L	Transponder - Mode S, including aircraft identification, pressure-altitude, extended squitter (ADS B) and enhanced surveillance capability
P	Transponder - Mode S, including pressure-altitude, but no aircraft identification capability
S	Transponder - Mode S, including both pressure-altitude and aircraft identification capability
X	Transponder - Mode S with neither aircraft identification nor pressure-altitude capability
<b>NOTE-</b> <i>Enhanced surveillance capability is the ability of the aircraft to down-link aircraft derived data via a Mode S transponder.</i>	
<b>Followed by one or more of the following codes if the aircraft has ADS-B capability:</b>	
B1	ADS-B with dedicated 1090 MHz ADS-B "out" capability
B2	ADS-B with dedicated 1090 MHz ADS-B "out" and "in" capability
U1	ADS-B "out" capability using UAT
U2	ADS-B "out" and "in" capability using UAT
V1	ADS-B "out" capability using VDL Mode 4
V2	ADS-B "out" and "in" capability using VDL Mode 4
<b>NOTE-</b> <i>File no more than one code for each type of capability; for example, file B1 or B2, but not both.</i>	
<b>Followed by one or more of the following codes if the aircraft has ADS-C capability:</b>	
D1	ADS-C with FANS 1/A capabilities
G1	ADS-C with ATN capabilities

**TBL 5-1-6**

**PBN/RNAV Specifications**

<b>PBN/</b>	<b>RNAV SPECIFICATIONS</b>
A1	<u>RNAV 10 (RNP 10)</u>
B1	RNAV 5 all permitted sensors
B2	RNAV 5 GNSS
B3	RNAV 5 DME/DME
B4	RNAV 5 VOR/DME
B5	RNAV 5 INS or IRS
B6	RNAV 5 LORAN C
C1	RNAV 2 all permitted sensors
C2	RNAV 2 GNSS
C3	RNAV 2 DME/DME
C4	RNAV 2 DME/DME/IRU
D1	RNAV 1 all permitted sensors
D2	RNAV 1 GNSS
D3	RNAV 1 DME/DME
D4	RNAV 1 DME/DME/IRU

	<b>RNP SPECIFICATIONS</b>
L1	RNP 4
O1	Basic RNP 1 all permitted sensors
O2	Basic RNP 1 GNSS
O3	Basic RNP 1 DME/DME
O4	Basic RNP 1 DME/DME/IRU
S1	RNP APCH
S2	RNP APCH with BARO-VNAV
T1	RNP AR APCH with RF (special authorization required)
T2	RNP AR APCH without RF (special authorization required)

## FAA domestic equipment code

*TBL 5-1-3*  
**Aircraft Equipment Suffixes**

	Navigation Capability	Transponder Capability	Suffix
<b>RVSM</b>	No GNSS, No RNAV	Transponder with Mode C	/W
	RNAV, No GNSS	Transponder with Mode C	/Z
	GNSS	Transponder with Mode C	/L
<b>No RVSM</b>			
<b>No RVSM</b>	No DME	No Transponder	/X
		Transponder with no Mode C	/T
		Transponder with Mode C	/U
	DME	No Transponder	/D
		Transponder with no Mode C	/B
		Transponder with Mode C	/A
	TACAN	No Transponder	/M
		Transponder with no Mode C	/N
		Transponder with Mode C	/P
	RNAV, no GNSS	No Transponder	/Y
		Transponder with no Mode C	/C
		Transponder with Mode C	/I
	GNSS	No Transponder	/V
		Transponder with no Mode C	/S
		Transponder with Mode C	/G

## Reference:

1. Airplane type designator
  - a. <http://www.icao.int/publications/DOC8643/Pages/Search.aspx>
2. Garmin Equipment table
  - a. <https://fly.garmin.com/fly-garmin/support/icao-flight-plans>
3. FAA ICAO flight plan information
  - a. [https://www.faa.gov/about/office\\_org/headquarters\\_offices/ato/service\\_units/air\\_traffic\\_services/fligh\\_t\\_plan\\_filing/](https://www.faa.gov/about/office_org/headquarters_offices/ato/service_units/air_traffic_services/fligh_t_plan_filing/)
4. ICAO flight plan item 10
  - a. Capabilities comprise the following elements:
    - i. Presence of relevant serviceable equipment on board the aircraft;
    - ii. Equipment and capabilities commensurate with flight crew qualifications; and
    - iii. Where applicable, authorization from the appropriate authority
5. AIM 5-1-9