

DECLARATION OF COMPLIANCE WITH THE REQUIREMENTS DEFINED IN THE
ECC DECISION (ECC/DEC(05)11)
ON THE FREE CIRCULATION AND USE OF AIRCRAFT EARTH STATIONS (AES) IN
THE FREQUENCY BANDS
14.0-14.5 GHZ (EARTH-TO-SPACE),
10.7-11.7 GHZ (SPACE-TO-EARTH) AND
12.5-12.75 GHZ (SPACE-TO-EARTH)

The following are the information on the Connexion by BoeingSM (CBB) Broadband Satcom Network required for compliance with the ECC Dec. (05)11 on the Free Circulation and Use of Aircraft Earth Stations (AES) operating in the Frequency Bands 14.0-14.5 GHz (Earth-to-Space), 10.7-11.7 GHz (Space-to-Earth) and 12.5-12.75 GHz (Space-to-Earth).

With this submission CBB declares its compliance with the ECC Decision (05)11.

- **Points of Contacts**

Network Operator's designated point of contact

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Network Control Facility (NCF) designated point of contact

Title of contact:	Network Manager NOC
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- **Technical Specification(s) of AES equipment type(s) used in the network**

AES Antenna

Antenna type	Phased Array	NGA Reflector Elliptical	T-Tail Reflector Circular
Antenna size	38 cm diameter	65cm x 19.6cm	29 cm
Transmit peak gain	34 dBi	32 dBi	32 dBi
Max e.i.r.p. per carrier	49 dBW	47 dBW	41 dBW
Transmit frequency bands	14.0-14.5 GHz	14.0-14.5 GHz	14.0-14.5 GHz
Min. operating elevation	5°	5°	5°
Antenna pointing accuracy	0.35 deg. rms	0.25 deg. rms (Az), 0.6 deg. rms (El)	TBD

Waveform characteristics

Number of carriers per AES	1	
Occupied BW	(Satellite) W7 36E I-907 27.5W T11N 37.5 W	(Bandwidth) 9.925 MHz 3.400 MHz 13.50 MHz
Carrier center frequency	(Satellite) W7 36E I-907 27.5W T11N 37.5 W	(Frequency) 14 215.10 MHz 14 042.00 MHz 14 106.00 MHz
Modulation	Offset-QPSK	
Multiple access	Direct Spread Spectrum Sequence	

- **Details of each Operating Satellite**

ITU BR Filing Information

	W7	I-907	T11N
Operator	Eutelsat	Intelsat	Eutelsat
ITU BR filing satellite network name	EUTELSAT 3-36E	Intelsat-9 332.5E	USASAT-26A
ITU BR Circular reference number and date of publication	AR11/C/2579 dated 22 October 1996	AR11/A/2295 dated 28 Jul 1998 API/A/2082 dated 30 Oct 2001 AR11/C/3401 dated 27 Jun 2000 AR11/C/3401 Mod 1 dated 26 Jun 2001	AR11/C/1832 dated 12 Mar 1991 AR11/C/2456 Dated 19 Sep 1995 AR11/C/2456 Dated 24 Oct 1995 CR/C/652 dated 28 Jan 2003
GSO longitude	36 East	27.5 West	37.5 West
Satellite service area	Europe, North Atlantic, Middle East (Figure 1)	North Atlantic, Western Europe (Figure 2)	North Atlantic (Figure 3)

Forward Channel details (Satellite to AES)

	W7	I-907	T11N
Transponder center frequency (MHz)	11 658.33	11 555	11 526.5
Transponder bandwidth (MHz)	72	36	36

Return Channel details (AES to satellite)

	W7	I-907	T11N
Transponder center frequency (MHz)	14 041.67	14 042.5	14 090
Transponder bandwidth (MHz)	72	77	27

- **Other details**

- As of 1 January 2007, CBB system has been renamed Boeing Broadband Satcom Network (BBSN). Equipment of BBSN has been installed exclusively on-board US government VIP aircraft.
- As of 1 July 2010, the following coverage applies for CEPT (including French Oversea Territories and Azores for Portugal).

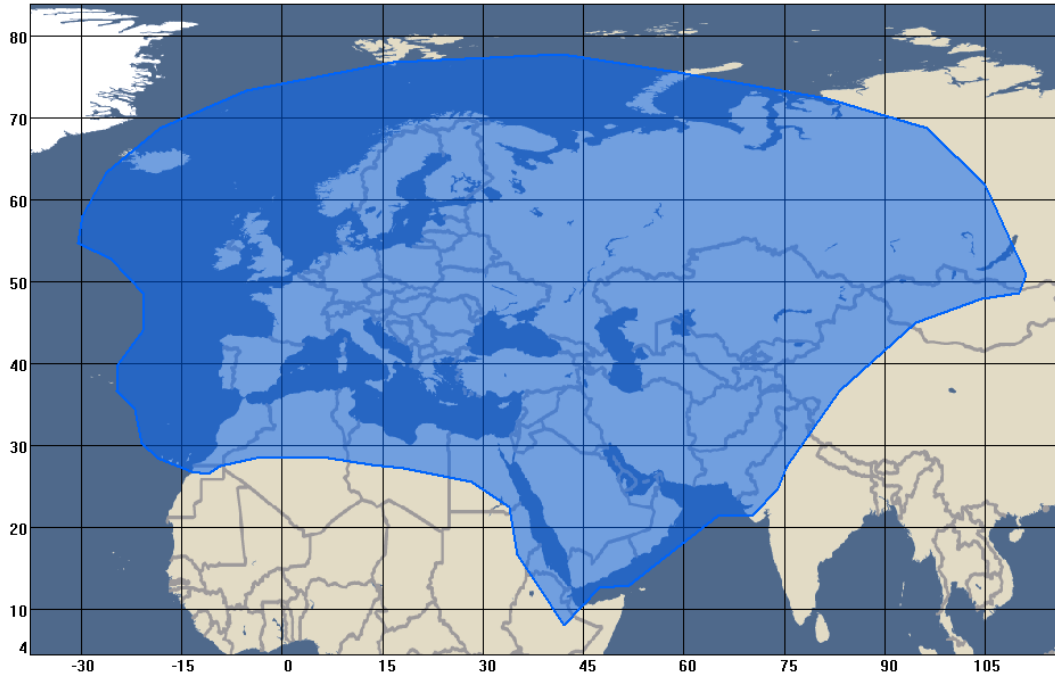


Fig. 1: Eutelsat W7

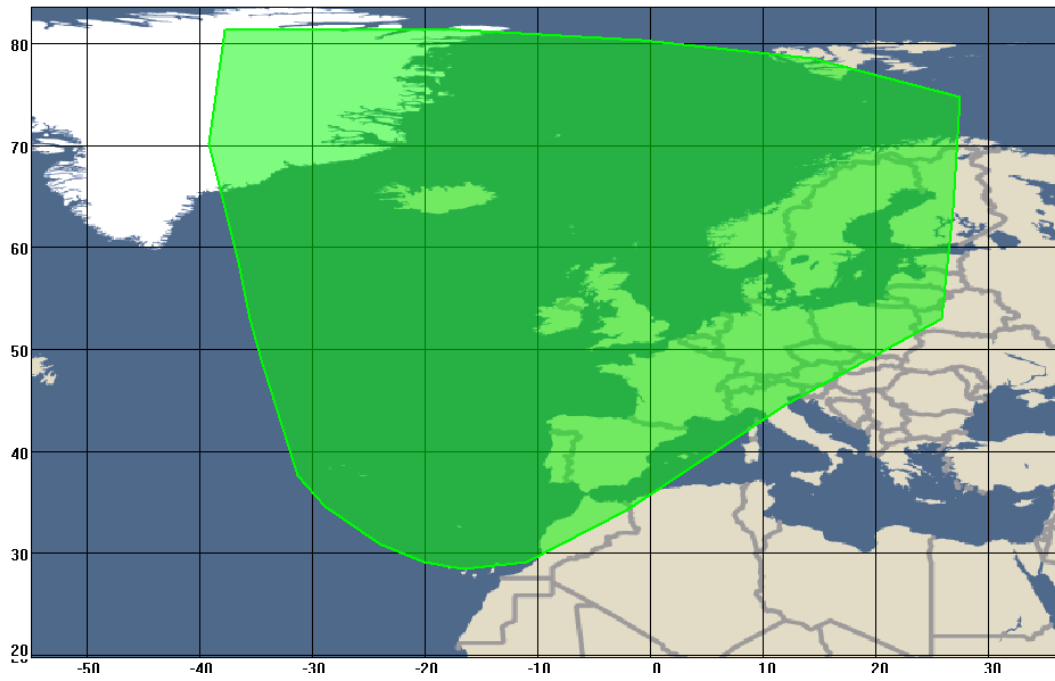


Fig. 2: Intelsat I-907

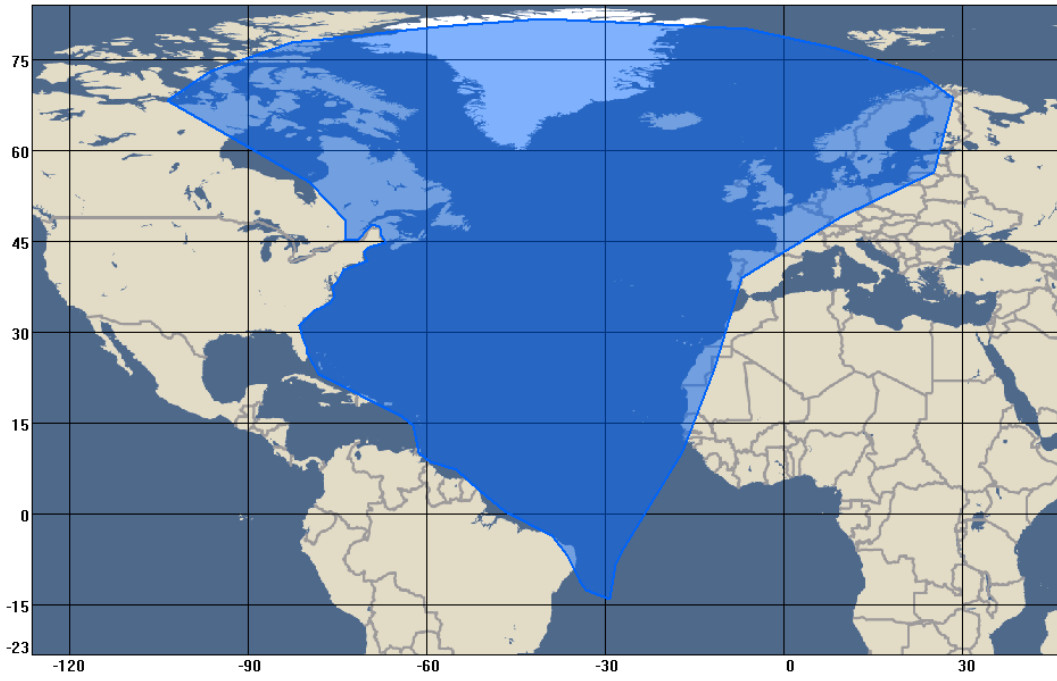


Fig.3: T11N North Atlantic Coverage