

Technical Specifications of Seanet ESV

With this submission Seanet Maritime Communications AB declares that its ESV systems comply with the requirements of the ECC Decision (05)10 on free circulation and use of ESVs in the 14 GHz FSS frequency band, including the restrictions notified to the Office by CEPT administrations under *Decides 5 and 6* of the said Decision by the date of this submission.

Network Operator Details

Network Operator Name	Seanet Maritime Communications AB
Network Operator Address	Antennvägen 6 SE-187 66 TABY SWEDEN
Contact Name	Magnus Lundmark
Contact Telephone Number	+46735405074
Contact E-mail Address	magnus.lundmark@seanet.se
Network Control Facility (NCF) Designated Point of Contact	Telesat Network Management Centre
NCF Contact Name	Gordon Jarvis
NCF Contact Telephone Number	+1 240 751 4655
NCF Contact E-mail Address	rocnmc@telesat.com

ESV Antenna

Antenna Type	Orbit AL-7103-Ku Mk II
Antenna Size	1.15m
Transmit Frequency Bands	13.75 – 14.50 GHz
Transmit Peak Gain	42.5 dBi
Maximum EIRP per Carrier	50 dBW (using 8W BUC)
Minimum Operating Elevation	0 degrees
Pointing Accuracy	0.1 degrees RMS

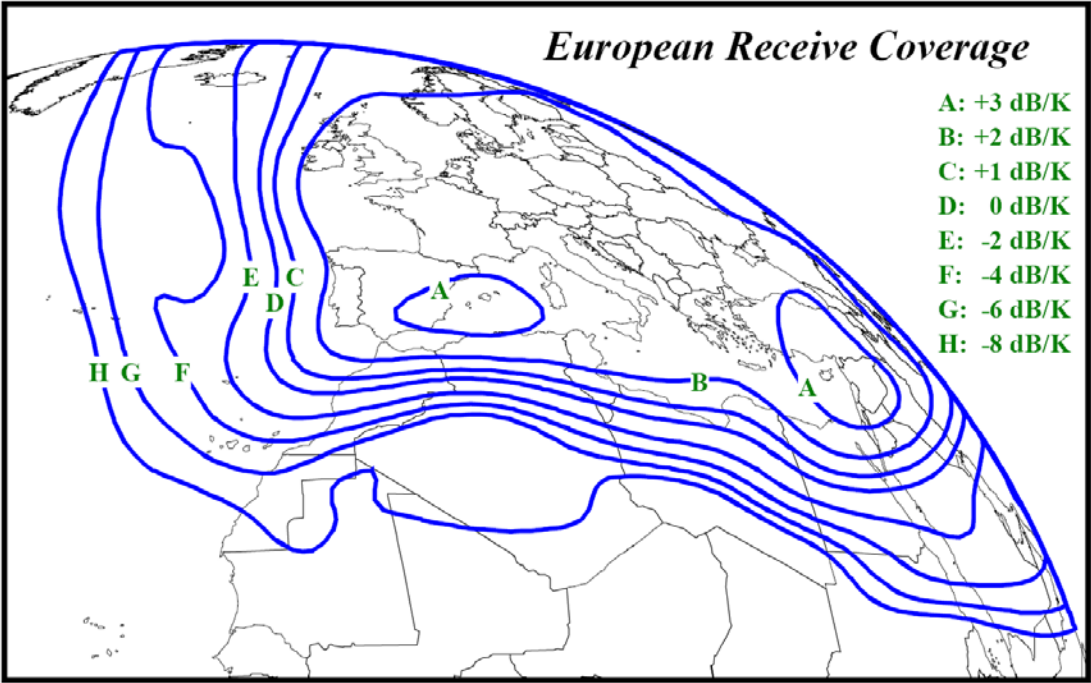
Waveform Definition

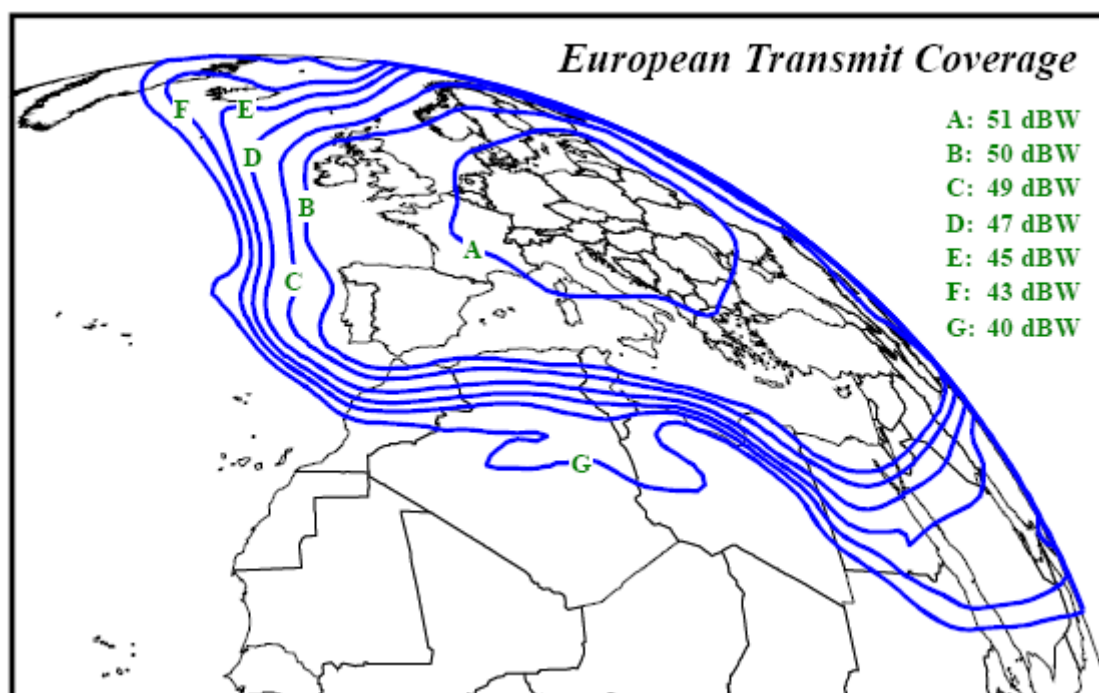
Number of Carriers per ESV	1
Maximum Occupied Bandwidth per Carrier	550kHz
Modulation	QPSK with FEC
Multiple Access Scheme	MF-TDMA

Satellite Operating Details

ITU Filing Satellite Name	Telstar 12
Satellite Operator Name	Telesat [formerly: Loral Skynet]
GEO longitude	15.0W

Telstar 12 has the following Ku-band footprint as taken from the Technical Manual:





Channel Details

Forward Channel Details	
Transponder Downlink Centre Frequency	10986.450 MHz
Transponder Downlink Bandwidth	900 kHz

Return Channel Details	
Transponder Uplink Centre Frequency	14157.605 MHz
Transponder Uplink Bandwidth	550 kHz