



ECC ESV Network Operators Application

Network Operator Details

Network Operator Name	Inmarsat
Network Operator Address	Aberdeen Teleport Exhibition Avenue Bridge of Don Aberdeen AB23 8BL
Contact Name	Michelle Milligan
Contact telephone number	+131 220 7224
Contact e-mail address	Michelle.milligan@inmarsat.com
Network Control Facility (NCF) designated point of contact	Kevin Simpson
NCF Contact name	As above
NCF contact telephone number	01224 296005
NCF Contact e-mail address	vsatsystemexpert@inmarsat.com

1. Technical Specification(s) of ESV type(s) used in the network

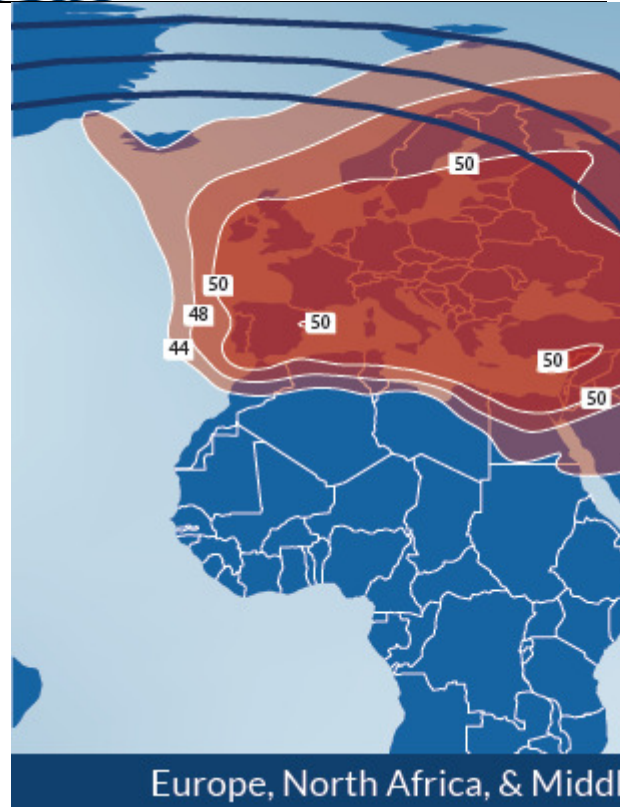
ESV Antenna	
Antenna type	Seatel 4003
Antenna size	1m
Transmit frequency bands	Ku band frequency band 12 – 18GHz
Transmit peak gain	40dBi at 14.0GHz
Max e.i.r.p per carrier	52.7 dBW
Min. Operating elevation	5 degrees
Pointing accuracy	0.3 degrees
ETSI EN 302 340	Yes

Waveform definition	
Number(s) of carriers per ESV	1 outbound + 5 inbounds
Maximum occupied bandwidth(s) per carrier	$1.26\text{MHz} + [(0.39\text{MHz} \times 2) + (0.22\text{MHz} \times 2) + 0.73\text{MHz}]$
Modulation	QPSK
Multiple Access Scheme	TDMA

2. Operating details of each satellite

ITU Filing satellite name	T12
Satellite operator name	Telesat
GEO Longitude	15W

Satellite service area (text description and/or a figure of the area)



Forward Channel Details (Satellite to ESV)

Transponder downlink centre frequency	12,719MHz
Transponder downlink bandwidth	54MHz

Return Channel Details (ESV to satellite)

Transponder uplink centre frequency	14,219MHz
Transponder uplink bandwidth	54MHz