



## **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**

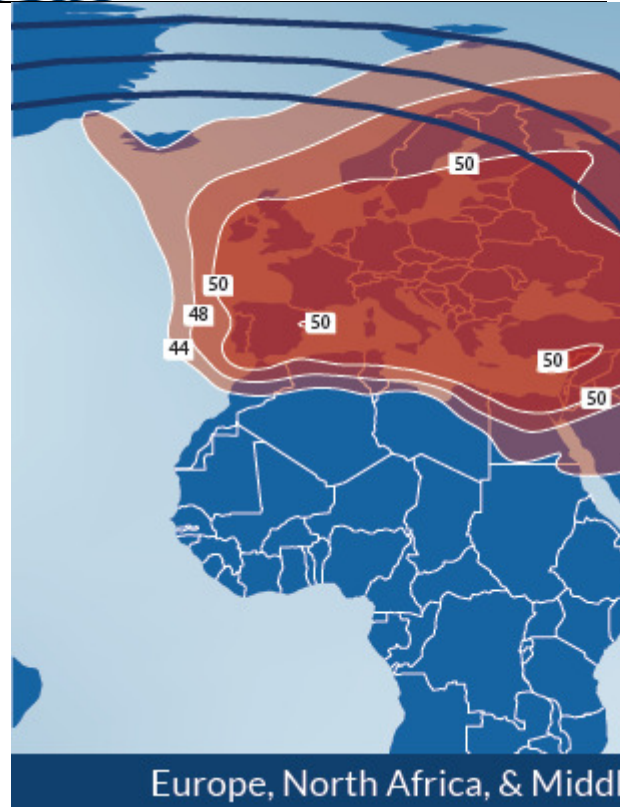
<b>ESV Antenna</b>	
Antenna type	Intellian V110
Antenna size	1.05m
Transmit frequency bands	Ku band frequency band 12 – 18GHz
Transmit peak gain	41.7dB @ mid band
Max e.i.r.p per carrier	52.7 dBW
Min. Operating elevation	5 degrees
Pointing accuracy	0.2 degrees
ETSI EN 302 340 compliant	Yes

<b>Waveform definition</b>	
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