



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

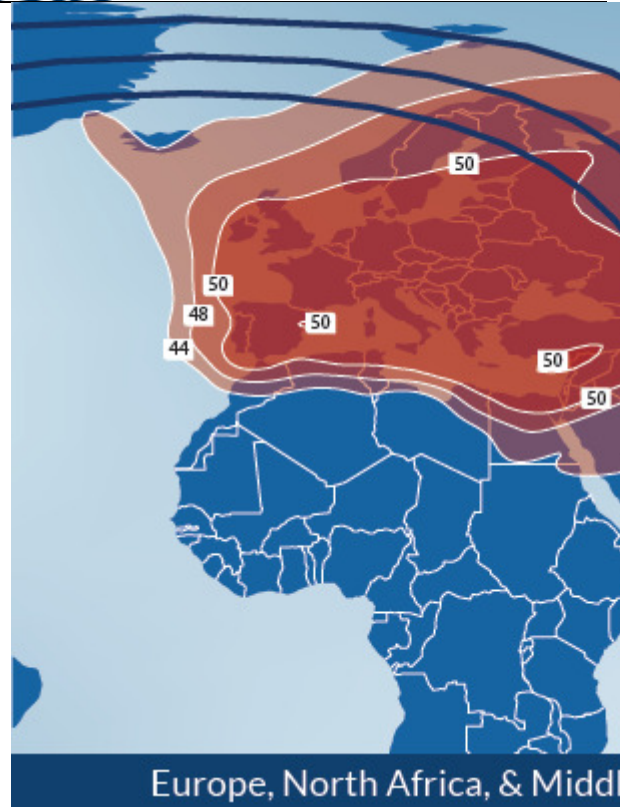
| | |
|--------------------------|-----------------------------------|
| ESV Antenna | |
| Antenna type | Seatel 4009 |
| Antenna size | 1m |
| Transmit frequency bands | Ku band frequency band 12 – 18GHz |
| Transmit peak gain | 40.6dB at 14.25GHz |
| Max e.i.r.p per carrier | 52.7 dBW |
| Min. Operating 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 |