



## **ECC ESV Network Operators Application**

### **Network Operator Details**

|  |  |
|--|--|
| Network Operator Name                                      | Inmarsat   |
| Network Operator Address                                   | 71 Hanover Street,<br>Edinburgh, UK<br>EH2 1EE                                     |
| Contact Name   | Michelle Milligan  |
| Contact telephone number                                   | +44 207 510 1520   |
| Contact e-mail address                                     | <a href="mailto:Michelle.milligan@inmarsat.com">Michelle.milligan@inmarsat.com</a> |
| Network Control Facility (NCF) designated point of contact | Ian Morton   |
| NCF Contact name   | Neil MacKinnon   |
| NCF contact telephone number                               | 0207 510 1500  |
| NCF Contact e-mail address                                 | ian.morton@inmarsat.com  |

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

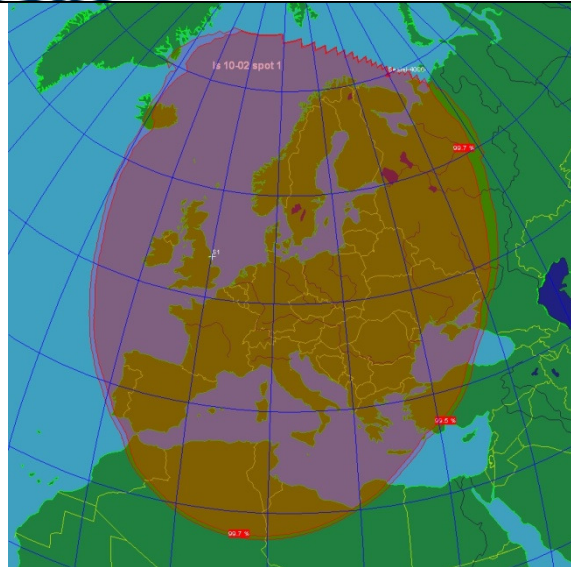
| <b>ESV Antenna</b>        |                                   |
|---------------------------|-----------------------------------|
| Antenna type              | Seatel 6006                       |
| Antenna size              | 1.5m                              |
| Transmit frequency bands  | Ku band frequency band 12 – 18GHz |
| Transmit peak gain        | 45.1dB at 14.2GHz                 |
| Max e.i.r.p per carrier   | 45.2dBW                           |
| Min. Operating elevation  | 5 degrees                         |
| Pointing accuracy         | 0.3 degrees                       |
| ETSI EN 302 340 compliant | Yes                               |

| <b>Waveform definition</b>                |                              |
|---|------------------------------|
| Number(s) of carriers per ESV             | One outbound + four inbounds |
| Maximum occupied bandwidth(s) per carrier | 3.2158MHz + 4*0.544MHz       |
| Modulation                                | QPSK                         |
| Multiple Access Scheme                    | TDMA                         |

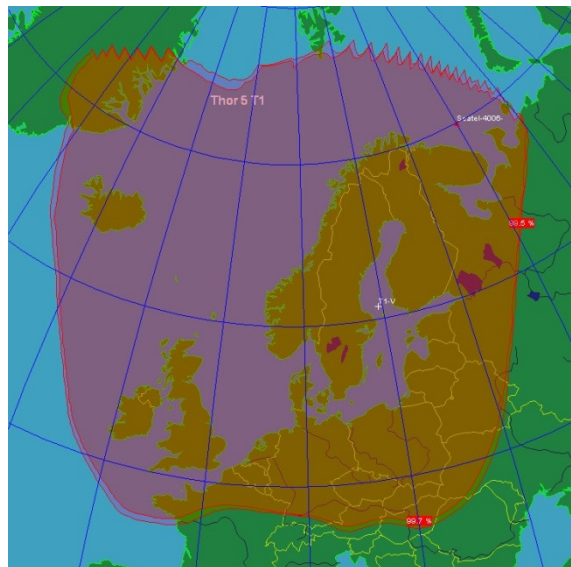
### **2. Operating details of each satellite**

|                           |   |
|---------------------------|---|
| ITU Filing satellite name | Outbound IS10-02 Spot 1, Inbound Thor 5T1 |
| Satellite operator name   | Telenor                                   |
| GEO Longitude             | 1W (for both outbound and inbound)        |

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



The coverage offered on IS10-02 Spot 1 is exactly as shown above.



The coverage offered on Thor 5T1 is exactly as shown above.

#### Forward Channel Details (Satellite to ESV)

|                                       |           |
|---------------------------------------|-----------|
| Transponder downlink centre frequency | 11,434MHz |
| Transponder downlink bandwidth        | 27MHz     |

#### Return Channel Details (ESV to satellite)

|                                     |           |
|-------------------------------------|-----------|
| Transponder uplink centre frequency | 14,205MHz |
| Transponder uplink bandwidth        | 72MHz     |