



ECC ESV Network Operators Application

Network Operator Details

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| Network Operator Name | Inmarsat |
| Network Operator Address | 71 Hanover Street Edinburgh, UK EH2 1EE |
| Contact Name | Michelle Milligan |
| Contact telephone number | +44 207 510 1520 |
| Contact e-mail address | Michelle.milligan@inmarsat.com |
| 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

| ESV Antenna | |
|---------------------------|-----------------------------------|
| Antenna type | Seatel 9797 (Ku band variant) |
| Antenna size | 2.4m |
| Transmit frequency bands | Ku band frequency band 12 – 18GHz |
| Transmit peak gain | 48.45dBi at 14.25GHz |
| Max e.i.r.p per carrier | 48.69dBW |
| Min. Operating elevation | 5 degrees |
| Pointing accuracy | 0.2 degrees |
| ETSI EN 302 340 compliant | Yes |

| Waveform definition | |
|---|-------------------------------|
| Number(s) of carriers per ESV | One outbound + three inbounds |
| Maximum occupied bandwidth(s) per carrier | 4.725MHz + 3*0.363MHz |
| Modulation | Outbound BPSK, Inbound QPSK |
| Multiple Access Scheme | TDMA |

2. Operating details of each satellite

| | |
|---------------------------|---------------------------|
| ITU Filing satellite name | Astra 4a BSS Nordic Beam |
| Satellite operator name | Swedish Space Corporation |
| GEO Longitude | 4.8E |

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



The coverage offered in this case is to the geographical extremities of 73N, 3E to 73N, 46E.

| Forward Channel Details (Satellite to ESV) | |
|--|--|
|--|--|

| | |
|---------------------------------------|-----------|
| Transponder downlink centre frequency | 12,625MHz |
| Transponder downlink bandwidth | 72MHz |

| Return Channel Details (ESV to satellite) | |
|---|--|
|---|--|

| | |
|-------------------------------------|-----------|
| Transponder uplink centre frequency | 14,125MHz |
| Transponder uplink bandwidth | 72MHz |