



## **ECC ESV Network Operators Application**

### **Network Operator Details**

Network Operator Name	Inmarsat
Network Operator Address	71 Hanover Street Edinburgh 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 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	51.09dBW
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	One outbound + three inbounds
Maximum occupied bandwidth(s) per carrier	2.742MHz + 3*0.631MHz
Modulation	DVBS2 outbound – 8PSK, Infiniti inbounds - 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	12,547MHz
Transponder downlink bandwidth	72MHz

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

Transponder uplink centre frequency	14,047MHz
Transponder uplink bandwidth	72MHz