



ECC ESV Network Operators Application

Network Operator Details

Network Operator Name	Inmarsat
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Network Control Facility (NCF) designated point of contact	Ian Morton
NCF Contact name	Neil MacKinnon
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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	48.69dBW
Min. Operating elevation	5 degrees
Pointing accuracy	0.3 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