



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 9707
Antenna size	2.4m
Transmit frequency bands	4-8 GHz
Transmit peak gain	41.7dBi at 6.18GHz
Max e.i.r.p per carrier	48.4dBW
Min. Operating elevation	5 degrees
Pointing accuracy	0.2 degrees
ETSI EN 301 447 compliant	yes

Waveform definition	
Number(s) of carriers per ESV	One outbound + 2 inbounds
Maximum occupied bandwidth(s) per carrier	1.986MHz + 2*0.683MHz
Modulation	QPSK
Multiple Access Scheme	TDMA

2. Operating details of each satellite

ITU Filing satellite name	IS-905 East Hemi
Satellite operator name	Intelsat
GEO Longitude	335.5E

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



The coverage offered in this case is the East Hemi beam and is based on location 44.7E, 24.3S at the South of Madagascar on the 10 degree elevation line.

Forward Channel Details (Satellite to ESV)

Transponder downlink centre frequency	3,825MHz
Transponder downlink bandwidth	72MHz

Return Channel Details (ESV to satellite)

Transponder uplink centre frequency	6,050MHz
Transponder uplink bandwidth	72MHz