

ANNEX C

PARAMETERS THAT NEED TO BE SUBMITTED BY ESV NETWORK OPERATORS

An ESV network operator is required to submit to the Office the following parameters together with a declaration that their systems comply with the requirements of the Decision including any restrictions notified to the Office by CEPT administrations under *Decides 5 and 6* of this Decision.

Network operator name	OmniAccess S.L.
Network operator address	07009 Palma de Mallorca, Spain
Contact name	Bertrand Hartman
Contact telephone number	+34 971 22 19 79
Contact e-mail address	bertrand@omniaccess.com
Network Control Facility (NCF) designated point of contact	NOC Head Engineer
NCF Contact name	Antoni Matamalas
NCF Contact telephone number	+34 971 221979
NCF Contact e-mail address	antoni@omniaccess.com

Table C1: Network operator details

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

<u>ESV Antenna</u>	A
Antenna type	Orbit AL-7103
Antenna size	1,15m
Transmit frequency bands	13.75 - 14.5 GHz
Transmit peak gain	42.5dBi @ 14.25 GHz
Max e.i.r.p. per carrier	50.5dBW (with 8W BUC)
Min. operating elevation	10 °
Pointing accuracy	0.1° RMS
<u>Waveform definition</u>	
Number(s) of carriers per ESV	1
Maximum occupied bandwidth(s) per carrier	2 MHz
Modulation	QPSK
Multiple access scheme	D-TDMA

2. Operating details of each satellite

ITU Filing satellite name	USASAT-14L
Satellite operator name	Loral Skynet/Telesat
GEO longitude	15 W
Satellite service area (text description and/or a figure of the area)	European Footprint

Forward Channel details (Satellite to ESV)

Transponder downlink centre frequency	11,4625 GHz
Transponder downlink bandwidth	4000 kHz

Return Channel details (ESV to satellite)

Transponder uplink centre frequency	14,4875 GHz
Transponder uplink bandwidth	300 kHz

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Table C1: Network operator details

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

<u>ESV Antenna</u>	B
Antenna type	4009 Ku Band TX/RX (Seatel/Cobham)
Antenna size	1,0 m
Transmit frequency bands	13.75 - 14.5 GHz
Transmit peak gain	40.6dBi @ 14.25 GHz
Max e.i.r.p. per carrier	not in manufacturers data
Min. operating elevation	10 °
Pointing accuracy	0.2° RMS
<u>Waveform definition</u>	
Number(s) of carriers per ESV	1
Maximum occupied bandwidth(s) per carrier	2 MHz
Modulation	QPSK
Multiple access scheme	D-TDMA

2. Operating details of each satellite

ITU Filing satellite name	USASAT-14L
Satellite operator name	Loral Skynet/Telesat
GEO longitude	15 W
Satellite service area (text description and/or a figure of the area)	European Footprint

Forward Channel details (Satellite to ESV)

Transponder downlink centre frequency	11,4625 GHz
Transponder downlink bandwidth	4000 kHz

Return Channel details (ESV to satellite)

Transponder uplink centre frequency	14,4875 GHz
Transponder uplink bandwidth	300 kHz

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Table C1: Network operator details

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

<u>ESV Antenna</u>	C
Antenna type	5009 Ku Band TX/RX (Seatel/Cobham)
Antenna size	1,24 m
Transmit frequency bands	13.75 - 14.5 GHz
Transmit peak gain	43dBi @ 14.25 GHz
Max e.i.r.p. per carrier	not in manufacturers data
Min. operating elevation	10 °
Pointing accuracy	0.2° RMS
<u>Waveform definition</u>	
Number(s) of carriers per ESV	1
Maximum occupied bandwidth(s) per carrier	2 MHz
Modulation	QPSK
Multiple access scheme	D-TDMA

2. Operating details of each satellite

ITU Filing satellite name	USASAT-14L
Satellite operator name	Loral Skynet/Telesat
GEO longitude	15 W
Satellite service area (text description and/or a figure of the area)	European Footprint

Forward Channel details (Satellite to ESV)

Transponder downlink centre frequency	11,4625 GHz
Transponder downlink bandwidth	4000 kHz

Return Channel details (ESV to satellite)

Transponder uplink centre frequency	14,4875 GHz
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Table C1: Network operator details

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

<u>ESV Antenna</u>	D
Antenna type	6009 Ku Band TX/RX (Seatel/Cobham)
Antenna size	1,5 m
Transmit frequency bands	13.75 - 14.5 GHz
Transmit peak gain	45.1 dBi @ 14.25 GHz
Max e.i.r.p. per carrier	not in manufacturers data
Min. operating elevation	10 °
Pointing accuracy	0.2° RMS
<u>Waveform definition</u>	
Number(s) of carriers per ESV	1
Maximum occupied bandwidth(s) per carrier	2 MHz
Modulation	QPSK
Multiple access scheme	D-TDMA

2. Operating details of each satellite

ITU Filing satellite name	USASAT-14L
Satellite operator name	Loral Skynet/Telesat
GEO longitude	15 W
Satellite service area (text description and/or a figure of the area)	European Footprint

Forward Channel details (Satellite to ESV)

Transponder downlink centre frequency	11,4625 GHz
Transponder downlink bandwidth	4000 kHz

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Table C1: Network operator details

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

<u>ESV Antenna</u>	E
Antenna type	4010 Ku Band TX/RX (Seatel/Cobham)
Antenna size	1,0 m
Transmit frequency bands	13.75 - 14.5 GHz
Transmit peak gain	39.9 dBi @ 14.25 GHz
Max e.i.r.p. per carrier	not in manufacturers data
Min. operating elevation	10 °
Pointing accuracy	0.2° RMS
<u>Waveform definition</u>	
Number(s) of carriers per ESV	1
Maximum occupied bandwidth(s) per carrier	2 MHz
Modulation	QPSK
Multiple access scheme	D-TDMA

2. Operating details of each satellite

ITU Filing satellite name	USASAT-14L
Satellite operator name	Loral Skynet/Telesat
GEO longitude	15 W
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Forward Channel details (Satellite to ESV)

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

<u>ESV Antenna</u>	F
Antenna type	5010 Ku Band TX/RX (Seatel/Cobham)
Antenna size	1,2 m
Transmit frequency bands	13.75 - 14.5 GHz
Transmit peak gain	42.1 dBi @14.25 GHz
Max e.i.r.p. per carrier	not in manufacturers data
Min. operating elevation	10 °
Pointing accuracy	0.2° RMS
<u>Waveform definition</u>	
Number(s) of carriers per ESV	1
Maximum occupied bandwidth(s) per carrier	2 MHz
Modulation	QPSK
Multiple access scheme	D-TDMA

2. Operating details of each satellite

ITU Filing satellite name	USASAT-14L
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1. Technical Specification(s) of ESV type(s) used in the network

<u>ESV Antenna</u>	G
Antenna type	EPAK SC-60 Ku
Antenna size	0.6 m
Transmit frequency bands	13.75 - 14.5 GHz
Transmit peak gain	
Max e.i.r.p. per carrier	40,5 dBW (linear operation)
Min. operating elevation	10 °
Pointing accuracy	0.1° RMS
<u>Waveform definition</u>	
Number(s) of carriers per ESV	1
Maximum occupied bandwidth(s) per carrier	2 MHz
Modulation	QPSK
Multiple access scheme	D-TDMA

2. Operating details of each satellite

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

<u>ESV Antenna</u>	H
Antenna type	EPAK SC-90 Ku
Antenna size	0.9 m
Transmit frequency bands	13.75 - 14.5 GHz
Transmit peak gain	
Max e.i.r.p. per carrier	44,5 dBW (linear operation)
Min. operating elevation	10 °
Pointing accuracy	0.1° RMS
<u>Waveform definition</u>	
Number(s) of carriers per ESV	1
Maximum occupied bandwidth(s) per carrier	2 MHz
Modulation	QPSK
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