

European Communications Office
Peblingehus
Nansensgade 19-3 DK-1366
Copenhagen Denmark

To the kind attention of Mr. Thomas Weber

Luxembourg, 20/05/2015

Subject: ESV Declaration – Addendum n. 2

Pursuant to the ESV Declaration for Ku-band services dated January the 24th 2014, Digitaria International SA provides this Addendum n. 2 in order to add the following ESV types which are going to be used into the network:

- Antenna type KNS Z7

<u>ESV Antenna</u>	KNS Z7
Antenna type	KNS Z7
Antenna size	0.75 m
Transmit frequency bands	13.75 – 14.50 GHz
Transmit peak gain	39.2 @ 14.5 GHz
Max e.i.r.p. per carrier	47.2 dBW
Min. operating elevation	10°
Pointing accuracy	0.1° RMS

Waveform definition

Number(s) of carriers per ESV	1
Maximum occupied bandwidth(s) per carrier	2 MHz
Modulation	BPSK, QPSK
Multiple access scheme	FDMA, TDMA

25A, Boulevard Grande-Duchesse Charlotte,
L-1331 Luxembourg
R.C.S. Luxembourg B 173.326
Business autorisation N° 1003976/0
EU VAT identification LU 25840740

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- Antenna type KNS Z8

ESV Antenna

Antenna type	KNS Z8
Antenna size	0.83 m
Transmit frequency bands	13.75 – 14.50 GHz
Transmit peak gain	39.9 @ 14.50 GHz
Max e.i.r.p. per carrier	47.9 dBW
Min. operating elevation	10°
Pointing accuracy	0.1° RMS

Waveform definition

Number(s) of carriers per ESV	1
Maximum occupied bandwidth(s) per carrier	2 MHz
Modulation	BPSK, QPSK
Multiple access scheme	FDMA, TDMA

- Antenna type KNS Z12

ESV Antenna

Antenna type	KNS Z12
Antenna size	1.20 m
Transmit frequency bands	13.75 – 14.50 GHz
Transmit peak gain	43.9 @ 14.5 GHz
Max e.i.r.p. per carrier	51.9 dBW
Min. operating elevation	10°
Pointing accuracy	0.2° RMS

Waveform definition

Number(s) of carriers per ESV	1
Maximum occupied bandwidth(s) per carrier	3 MHz
Modulation	BPSK, QPSK, 8PSK
Multiple access scheme	FDMA, TDMA

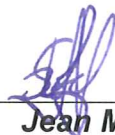
- Antenna type Intellian V110

<u>ESV Antenna</u>	Intellian V110
Antenna type	Intellian V110
Antenna size	1.05 m
Transmit frequency bands	13.75 – 14.50 GHz
Transmit peak gain	41.9 @ 14.5 GHz
Max e.i.r.p. per carrier	49.9 dBW
Min. operating elevation	10°
Pointing accuracy	0.2° RMS

Waveform definition

Number(s) of carriers per ESV	1
Maximum occupied bandwidth(s) per carrier	3 MHz
Modulation	BPSK, QPSK, 8PSK
Multiple access scheme	FDMA, TDMA

Sincerely,



Jean Martin Stoffel
Chief Executive Officer

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