

Office: 17, rue du Fossé • Postal address: L-2922 Luxembourg • Fax: (352) 28 228 229

Application for an implementation of a Satellite Earth Station

| | Modification of licence No.: | | |
|--|--|--|--|
| Company Name: | 2. Customer Information | | |
| Contact person: | Company Name: | | |
| Street, number: Place: Postcode: Place: P. 0. box: Fax No: E-mail: | Contact person: | | |
| Postcode: Place: P.O. box: Fax No: Phone No: Fax No: E-mail: | Street, number: | | |
| P.O. box: Fax No: Phone No: Fax No: E-mail: | Postcode: | Place: | |
| Phone No: Fax No: E-mail: 3. Billing Address: 3. Billing Address: Company Name: Company Name: Contact person: Contact person: Street, number: Postcode: Place: P.O. box: Place: P.O. box: Phone No: Fax No: E-mail: 4. Earth Station Parameters Fax No: E-mail: 4. Earth Station Parameters A - GENERAL CHARACTERISTICS OF THE EARTH STATION A.1.e.2 - Earth station name: Type of earth station: USAT Specific earth station Type of earth station: USAT Specific earth station A.1.e.3.b - Geographical Coordinated [WGS84]: " WGS84 " WGS84 | P.O. box: | | |
| E-mail: | Phone No: | Fax No: | |
| 3. Billing Address: Company Name: Contact person: Street, number: Postcode: Place: P.O. box: Phone No: Fax No: E-mail: 4. Earth Station Parameters Remark: The underlined numbers listed in the tables here behind refer to items as defined according to Appendix 4, annex 2 of the Radio Regulations A - GENERAL CHARACTERISTICS OF THE EARTH STATION A.1.e.2 - Earth station name: Type of earth station Ype of earth station: USAT SNG Typical earth station A1.e.3.b - Geographical Coordinated [WGS84]: | E-mail: | | |
| Company Name: Contact person: Street, number: Postcode: Place: P.O. box: Phone No: Fax No: E-mail: 4. Earth Station Parameters Remark: The underlined numbers listed in the tables here behind refer to items as defined according to Appendix 4, annex 2 of the Radio Regulations A - GENERAL CHARACTERISTICS OF THE EARTH STATION A.1.e.2 - Earth station name: Type of earth station: VSAT SNG SNG Typical earth station A.1.e.3.b - Geographical Coordinated [WGS84]: °N °N | 3. Billing Address: | | |
| Contact person: Street, number: Postcode: Place: P.O. box: Phone No: Fax No: E-mail: 4. Earth Station Parameters <i>Remark:</i> The <u>underlined numbers</u> listed in the tables here behind refer to items as defined according to Appendix 4, annex 2 of the Radio Regulations A - GENERAL CHARACTERISTICS OF THE EARTH STATION A.1.e.2 - Earth station name: Type of earth station: SNG Type of earth station: SNG A.1.e.3.b - Geographical Coordinated [WGS84]: °K °N | Company Name | | |
| Street, number: Postcode: Place: P.O. box: Phone No: Fax No: E-mail: 4. Earth Station Parameters Remark: The underlined numbers listed in the tables here behind refer to items as defined according to Appendix 4, annex 2 of the Radio Regulations A - GENERAL CHARACTERISTICS OF THE EARTH STATION A.1.e.2 - Earth station name: Type of earth station: Uppendix VSAT SNG Typical earth station A.1.e.3.b - Geographical Coordinated [WGS84]: | Contact person: | | |
| Postcode: Place: P.O. box: Phone No: Fax No: E-mail: 4. Earth Station Parameters Fax No: 4. Earth Station Parameters E-mail: 4. Earth Station Parameters A. Earth Station Parameters A - GENERAL CHARACTERISTICS OF THE EARTH STATION A.1.e.2 - Earth station name: Type of earth station: USAT SNG Typical earth station A.1.e.3.b - Geographical Coordinated [WGS84]: °E '' WGS84 | Street. number: | | |
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| E-mail: 4. Earth Station Parameters <i>Remark:</i> The <u>underlined numbers</u> listed in the tables here behind refer to items as defined according to Appendix 4, annex 2 of the Radio Regulations <u>A - GENERAL CHARACTERISTICS OF THE EARTH STATION A.1 - IDENTITY OF THE EARTH STATION A.1.e.2 - Earth station name: Type of earth station: </u> | Phone No: | Fax No: | |
| 4. Earth Station Parameters Remark: The underlined numbers listed in the tables here behind refer to items as defined according to Appendix 4, annex 2 of the Radio Regulations A - GENERAL CHARACTERISTICS OF THE EARTH STATION A.1 - IDENTITY OF THE EARTH STATION A.1.e.2 - Earth station name: Type of earth station: □ VSAT □ Specific earth station A.1.e.3.b - Geographical Coordinated [WGS84]: °E ' '' WGS84 | E-mail: | | |
| <u>A</u> - GENERAL CHARACTERISTICS OF THE EARTH STATION <u>A.1</u> - IDENTITY OF THE EARTH STATION <u>A.1.e.2</u> - Earth station name: Type of earth station: USAT Specific earth station SNG Typical earth station A.1.e.3.b - Geographical Coordinated [WGS84]: °E ' "WGS84 | 4. Earth Station Parameters <i>Remark:</i> The <u>underlined numbers</u> according to Appendix 4 | isted in the tables here behi , annex 2 of the Radio Regula | nd refer to items as defined ations |
| A.1 - IDENTITY OF THE EARTH STATION A.1.e.2 - Earth station name: Type of earth station: VSAT BNG Typical earth station A.1.e.3.b - Geographical Coordinated [WGS84]: °E ' '' WGS84 °N ' '' WGS84 | <u>A</u> - GENERAL CHARACTERISTICS | OF THE EARTH STATION | |
| A.1.e.2 - Earth station name: Type of earth station: VSAT SNG Typical earth station A.1.e.3.b - Geographical Coordinated [WGS84]: °E ' '' WGS84 °N ' '' WGS84 | A.1 - IDENTITY OF THE EARTH ST | ATION | |
| Type of earth station: VSAT Specific earth station SNG Typical earth station A.1.e.3.b - Geographical Coordinated [WGS84]: °E ' '' WGS84 °N '' '' WGS84 | | | |
| A.1.e.3.b - Geographical Coordinated [WGS84]: °E ' "WGS84 °N ' WGS84 | <u>A.1.e.2</u> - Earth station name: | | Specific earth station |
| | <u>A.1.e.2</u> - Earth station name: Type of earth station: | USAT | Typical earth station |

| <u>A.4.c.1</u> - Associated Spa Type of Space Station: | ce Station: | nary stationary | <u>A.4.c.2</u> - Orbita | Il position: | ° [] E / [|] W |
|---|---|---|---|---------------------------|--|---------------|
| <u>A.7</u> - SPECIFIC EART <u>A.7.a</u> - Horizon eleva Distance, in ki | TH STATION tion angle, in de lometers, from | SITE CHAI egrees, for e the earth sta | RACTISTICS each azimuth arout ation to the horizon | und the ea on for each | rth station and azimuth around the ea | irth station: |
| Azimuth [°] | | <u>A.7.a.1</u> - | Elevation angle | • [°] | <u>A.7.a.2</u> - Distance | [km] |
| | 0 | | | 0 | | km |
| | 0 | | | 0 | | KII |
| | o | | | 0 | | km |
| | 0 | | | 0 | | kn |
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| | 0 | | | 0 | | kn |
| | | | | 0 | | kn |
| <u>A./.b.1</u> - Minimum angl | e of elevation of | of the antenr | na's main | | 0 | |

| A.7.d - Altitude, in meters, of the antenna above mean sea level: m | | | |
|--|----------|--|--|
| tenna height, in meters, above Ground level: | | m | |
| <u>7.e</u> - Minimum angle of elevation of the antenna's management each azimuth around the earth station that is op- | ain beam | axis, in degrees, from the horizontal plane fo | |
| Azimuth [°] | | Elevation angle [°] | |
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| 3. | Earth | Station | Parameters | (cont. | 3) |
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RECEIVING BEAM PARAMETERS

<u>B</u> - CHARACTERISTICS TO BE PROVIDED FOR EACH EARTH STATION

<u>B.1</u> - IDENTIFICATION AND DIRECTION OF THE SATELLITE ANTENNA BEAM

<u>B.1.a</u> - Designation of the satellite antenna beam of the associated space station:

| B.5 - EARTH STATION ANTENNA CHARACTERISTICS | | |
|--|-----|--|
| B.5.a - Maximum isotropic gain, in dBi | dBi | |
| B.5.b - Half-power beamwidth, in degrees: | 0 | |
| B.5.c - Antenna radiation pattern*: | | |
| CoefA: | | |
| CoefB: | | |
| CoefC: | | |
| CoefD: | | |
| Phi: | | |
| Antenna diameter, in meters | m | |
| | | |

* or provide co- and cross-polar measured antenna diagram

<u>C</u> - CHARACTERISTICS TO BE PROVIDED FOR EACH GROUP OF FREQUENCY ASSIGNMENTS FOR AN EARTH STATION

<u>C.2</u> - ASSIGNED FREQUENCIES

| | 5 | | |
|---|---|-------------------------------|-----------------------|
| <u>C.2.a.1</u> - The assigned frequencies | <u>C.2.b</u> - The frequency ba | center of the and observed | |
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| <u>C.3</u> - ASSIGNED FREQUENCY | BAND | | |
| <u>C.3.a</u> - The bandwidth of the assigne band, in kHz: | d frequency | kHz | |
| C.4 - CLASS OF STATION AND | NATURE OF S | ERVICE | |
| C.4.a - The class of station | | | |
| C.4.b - The nature of service perform | ned | | |
| C.5 - RECEIVING SYSTEM NOI | SE TEMPERAT | URE | |
| <u>C.5.b</u> - The lowest total receiving sys in kelvins, referred to the out antenna of the space station | stem noise temper put of the receivin | ature, g | К |
| <u>C.6</u> - POLARIZATION | | | |
| C.6.a - The type of polarization | | | |
| <u>C.6.b</u> - If linear polarization is used, t measured counter-clockwise beam axis from the equatoria vector of the waves as seen f | he angle, in degre in a plane normal I plane to the elec rom the satellite | ees, to the tric | 0 |

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4. Earth Station Parameters (cont. 4):

RECEIVING BEAM PARAMETERS (cont. 1)

C - CHARACTERISTICS TO BE PROVIDED FOR EACH GROUP OF FREQUENCY ASSIGNMENTS FOR AN EARTH STATION (cont. 1)

$\frac{C.7}{C.8}$ - NECESSARY BANDWIDTH AND CLASS OF EMISSION / $\frac{C.8}{C.8}$ - POWER CHARACTERISTICS OF THE TRANSMISSION

| <u>C.7.a</u> The necessary bandwidth and the class of emission: for each carrier | <u>C.8.e.1</u> For each carrier type, the greater of either the carrier-to-noise, in dB, required to meet the performance of the link under clear-sky conditions or the carrier-to-noise ratio, in dB, required to meet the short-time objectives of the link inclusive of necessary margins |
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4. Earth Station Parameters (cont. 5)

TRANSMITTING BEAM PARAMETERS

B - CHARACTERISTICS TO BE PROVIDED FOR EACH EARTH STATION

B.1 - IDENTIFICATION AND DIRECTION OF THE SATELLITE ANTENNA BEAM

B.1.a - Designation of the satellite antenna beam of the associated space station:

B.5 - EARTH STATION ANTENNA CHARACTERISTICS

B.5.a - Maximum isotropic gain, in dBi dBi o B.5.b - Half-power beamwidth, in degrees: B.5.c - Antenna radiation pattern*: CoefA: CoefB: CoefC: CoefD: Phi: Antenna diameter, in meters: m

* or provide co- and cross polar measured antenna diagram

<u>C</u> - CHARACTERISTICS TO BE PROVIDED FOR EACH GROUP OF FREQUENCY **ASSIGNMENTS FOR AN EARTH STATION**

C.2 - ASSIGNED FREQUENCIES

band, in kHz:

C.4.a - The class of station:

C.6 - POLARIZATION

C.4.b - The nature of service performed:

| <u>C.2.a.1</u> - The assigned frequencies | <u>C.2.b</u> - The c frequency ba | center of the nd observed | |
|--|--------------------------------------|---------------------------|-----------------------|
| | | | 🗌 kHz / 🗌 MHz / 🗌 GHz |
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| C.3 - ASSIGNED FREQUENCY BA | AND | | |
| C.3.a - The bandwidth of the assign | ned frequency | | |

kHz C.4 - CLASS OF STATION AND NATURE OF SERVICE

C.6.a - The type of polarization: C.6.b - If linear polarization is used, the angle, in degrees, measured counter-clockwise in a plane normal to the beam axis from the equatorial plane to the electric vector of the waves as seen from the satellite

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| 1 . | Earth | Station | Parameters | (cont. (| 6) |
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| <u>C</u> - CHARACTER ASSIGNMENTS F | OR AN EARTH STAT | TON (cont. 1) | | QUENCY |
|---|--|--|---|---|
| <u>C.7</u> - NECESSAR <u>C.8</u> - POWER CHA | Y BANDWIDTH AND CL RACTERISTICS OF TH | ASS OF EMIS | SION / SION | |
| <u>C.7.a¹</u> | <u>C.8.a.1¹ / C.8.b.1¹</u> [dBW] | <u>C.8.a.2¹/ C.8</u> [dB(W/Hz | <u>.b.2¹</u> <u>C.8.c.1¹</u> [dBW] | <u>C.8.c.3¹</u> [dB(W/Hz]) |
| | | | | |
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| C.8.a.1 - The maximum C.8.a.2 - The maximum C.8.b - For the case w C.8.b.1 - The total pea C.8.b.2 - The maximum C.8.c.1 - The minimum C.8.c.3 - The minimum C.8.g.1 - The maximum carriers (p to the inpu earth static | n value of the peak envelope po n power density, in dB(W/Hz), s /here it is not appropriate to i I envelope power, in dBW, supp n power density, in dB(W/Hz), s value of the peak envelope por power density, in dB(W/Hz), su num aggregate power, in dB er transponder, if applicable to f the transmitting antenna on or the associated earth s | wer, in dBW, suppli upplied to the input dentify individual of lied to the input of t upplied to the input of wer, in dBW, suppli upplied to the input of W, of all) supplied a of the tation | ed to the input of the antenna for of the antenna for each carrier carriers: he antenna. of the antenna. ed to the input of the antenna for of the antenna for each carrier t | or each carrier type. type. or each carrier type. ype. |
| General cond e data is saved e ministrations in a de ernational Telecomm ery change that coul ablishment of a new | itions lectronically in a datab fined coordination zone nunications Union. d lead to a modification o licence. | pase at the Ir according to th of licence must | stitute. The technical e regulations prescribed be notified by mail witho | data is exchanged with the from the Radio regulations of out delay in order to ensure the |
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