



**TELECOMMUNICATIONS REGULATORY COMMISSION
RADIO FREQUENCY AUTHORISATION**

Authorisation Number: (See Schedule A)

DATE OF ISSUE: 19/03/2017

DATE OF EXPIRATION: 19/03/2018

WHEREAS BVI CABLE TV the ("Authorisation Holder") has applied to the TELECOMMUNICATIONS REGULATORY COMMISSION (the "Commission") for the assignment of radio-frequency, for the purpose of establishing fixed wireless connections.

The Commission HEREBY ISSUES this Frequency Authorisation to the Authorisation Holder for the use of the spectrum in the Virgin Islands in accordance with the Telecommunications Act, 2006 (the "Act") and subject to the terms and conditions herein.

Terms and Conditions

1. Interpretation

1.1 In this Frequency Authorisation, unless indicated otherwise, the following words shall have the following meanings:

- a) "assigned frequency band" means the radio-frequency channels authorized by the Commission for use by the Authorisation Holder under this Frequency Authorisation as identified in Schedule A hereto.
- b) "Date of Issue" means the date of issue hereinabove written.
- c) "Date of Expiration" means the date of expiration hereinabove written.
- d) "facilities" means particular poles, masts, towers, roof-tops and other similar apparatus, inclusive of buildings, which are used to host the equipment used by the Authorisation Holder to facilitate operations on the assigned frequency band.
- e) "IMT Telecommunications Services" means subject to such definition that may be published from time to time by the International Telecommunications Union, such telecommunications services that may be provided utilising those systems, system components and related aspects of International Mobile Telecommunications as defined by the International Telecommunications Union.

1.2 Except as specified in 1.1 above, the words and expressions used herein shall have the meanings given in the Act.

1.3 References to any statute or statutory provision shall, unless the context otherwise requires, be construed as a reference to that statute or statutory provision as from time to time amended, consolidated, modified, extended, re-enacted or replaced.

2. General Conditions Regulatory Framework and Applicable Laws

- 2.1.1 The Authorisation Holder shall comply with the provisions of the Act in the operation or use of the assigned frequency band. The terms and conditions of this Frequency Authorisation shall be subject to the provisions of the Act.
- 2.1.2 The Authorisation Holder shall comply with all Regulations, with the Telecommunications Code, the terms and conditions of its licence, any lawful instructions from the Commission and all other instruments made under the Act and all relevant laws in force from time to time in the Virgin Islands.
- 2.1.3 The Authorisation Holder shall comply with any lawful directive issued by the Commission or any other person so duly authorised under the Act.
- 2.1.4 The terms and conditions of this Frequency Authorisation shall be construed in accordance with the Laws of the Virgin Islands.

2.2 Term

- 2.2.1 This Frequency Authorisation shall take effect from the Date of Issue and shall expire on the Date of Expiration ("the Term").
- 2.2.2 The Commission alone shall determine whether, upon expiration of the Term, this Frequency Authorisation shall be renewed. In deciding whether to renew this Frequency Authorisation, the Commission shall take into account:
 - i. the conduct of the Authorisation Holder during the Term or during the term of any licence granted by the Commission to the Authorisation Holder;
 - ii. whether the Authorisation Holder failed to comply materially with the Act, with the Telecommunications Code, with the terms of this Frequency Authorisation, its licence, any instructions from the Commission and with any lawful directive of the Commission.
- 2.2.3 This Frequency Authorisation shall terminate in the event the Authorisation Holder ceases to hold, for whatever reason, a licence for the operation of a telecommunications network providing services in the Virgin Islands.

2.3 Payment of Fees

- 2.3.1 The Authorisation Holder shall pay to the Commission such fees applicable to the use of the assigned frequency band as the Commission may determine from time to time in accordance with section 5.3 of the Authorisation Holder's Unitary Licence inclusive of application fees.
- 2.3.2 Subject to Regulations, fees payable by the Authorisation Holder under Article 2.3.1 above shall be payable from the Date of Issue.

2.4 Requirement to Furnish Information to the Commission

- 2.4.1 Without prejudice to the obligation of the Authorisation Holder to provide specific information to the Commission under the terms of this Frequency Authorisation, the Authorisation Holder shall provide the Commission with such information in such manner and at such times as the Commission may request in accordance with the Act.

6

2.5 Remedies for Non-Compliance

- 2.5.1 Without prejudice to any other right of action available to the Commission under the terms of this Frequency Authorisation or under any other written law or regulation, the Commission may take such action as it considers appropriate under the Act for a breach of any condition of this Frequency Authorisation.
- 2.5.2 If in the opinion of the Commission, the Authorisation Holder has engaged in any conduct identified in section 75(1) of the Act, the Commission may exercise such enforcement powers against the Authorisation Holder under section 75(2) of the Act.

2.6 Force Majeure

- 2.6.1 The Authorisation Holder shall not be held liable for failure to comply with its obligations under this Frequency Authorisation to the extent that the Commission is satisfied that such failure was directly attributed to an act of force majeure provided that the Authorisation Holder shall use all reasonable endeavours to resume performance of its obligations as soon as the effect of the event of force majeure ceases or abates. For the avoidance of doubt there are not circumstances in which failure to pay fees due hereunder will be attributed to an act of force majeure.
- 2.6.2 The Authorisation Holder may during a period of emergency in which public services are disrupted due to an act of force majeure, use the assigned frequency band for emergency communications and in a manner other than as specified in this Frequency Authorisation provided that such use only persists during the declared period of emergency and is discontinued when it is possible to resume normal telecommunications services or until such special use of the assigned frequency band is terminated by the Governor.

2.7 National Security

- 2.7.1 The Authorisation Holder shall, upon request by the Governor or otherwise in accordance with any relevant law, co-operate with the Governor or other official agency duly authorised by the Governor to the extent required in matters of law enforcement, public emergency or national security.
- 2.7.2 The Authorisation Holder shall make available to the Government, as authorised by the Governor, its facilities and or telecommunications equipment for such purposes as may be required under section 89 of the Act when a period of public emergency has been declared.

2.8 Amendment

- 2.8.1 This Frequency Authorisation may be amended by the written agreement of the Authorisation Holder or by the Commission and otherwise in accordance with section 23 of the Act:
- i. due to the effect of an act of force majeure, national security considerations, changes in national legislation or, subject to section 86 of the Act, the need to implement international obligations; or
 - ii. if the Commission, taking into account the public interest, otherwise deems it necessary to achieve the purposes of the Act.

2.9 Assignment or Transfer

- 2.9.1 The Authorisation Holder shall not, without the prior written approval of the Commission, such approval not to be unreasonably withheld, transfer, assign or otherwise part with this Frequency Authorisation or any permission, right, obligation or benefit granted under this Frequency Authorisation.
- 2.9.2 Subject to section 20 of the Act, the Authorisation Holder shall not, without the prior written approval of the Commission, such approval not to be unreasonably withheld, enter into any agreement or other arrangement the effect or the purported effect of which would be to permit a person to acquire a significant interest in the Authorisation Holder.

2.10 International Obligations

- 2.10.1 The Authorisation Holder shall comply with such Regulations of the International Telecommunications Union as the Commission may adopt from time to time and shall observe such international obligations that may be applicable to the Virgin Islands.

2.11 Termination and Suspension

- 2.11.1 This Frequency Authorisation may be terminated or suspended in accordance with the Act.

2.12 Service of Notices

- 2.12.1 Any notice required to be given by the Commission to the Authorisation Holder under this Frequency Authorisation shall be in writing and shall be deemed to have been given if sent by hand or post or by facsimile (in the case of facsimile when proof of transmission is received) to the Authorisation Holder's address in the Territory, as indicated in the Authorisation Holder's application for a frequency authorisation or any other address of which the Authorisation Holder might have provided notice to the Commission from time to time.
- 2.12.2 Any notice required to be given by the Authorisation Holder to the Commission under this Frequency Authorisation shall be in writing and shall be deemed to have been given if sent by post or by facsimile (in the case of facsimile when proof of transmission is received) to the Commission's principal place of business in the Territory.

3. Conditions Specific to the Use of the Assigned Frequency Band

3.1 Use of Spectrum

- 3.1.1 The Authorisation Holder shall use the assigned channels for the upgrade of its microwave links to facilitate the delivery of IMT Telecommunications Services within the Territory of the Virgin Islands to the extent as may be technically possible without causing harmful interference to the telecommunications network of another operator. The Authorisation Holder shall not use the assigned frequency band for any other purpose without the approval of the Commission and in any event shall not use the assigned frequency band for any purpose other than to operate a telecommunications

network and or to provide a telecommunications service in the Territory of the Virgin Islands.

- 3.1.2 The Authorisation Holder shall comply with the terms and conditions of this Frequency Authorisation and Schedule A hereto which includes details of the radio-frequency channel, site locations and radiated power for the link.
- 3.1.3 The Commission may revoke this Frequency Authorisation in the event that the Authorisation Holder does not commence using the assigned frequency band in accordance with the terms and conditions of this Frequency Authorisation within two (2) weeks of the Effective Date.
- 3.1.4 The Authorisation Holder shall ensure that its use of the assigned frequency band does not cause harmful interference to any other authorised user of the spectrum unless and to the extent provided for under the Act, in accordance with Regulations or with the Telecommunications Code and or in accordance with international recommendations and standards recognised by the International Telecommunications Union.
- 3.1.5 The Authorisation Holder shall ensure that its use of the assigned frequency band does not cause danger to the public.
- 3.1.6 The Authorisation Holder shall, when using the assigned frequency band, take proper and adequate measures to safeguard life, property and the environment, including safeguarding against exposure to any electrical or radiation hazard emanating from any equipment used by the Authorisation Holder.
- 3.1.7 The Authorisation Holder shall ensure that any radio communications service or radio transmitting equipment operated on the assigned frequency band or otherwise with the use of the spectrum is in compliance with such emission standards and technical specifications that may be published by the Commission from time to time.
- 3.1.8 The Authorisation Holder shall, in accordance with instructions issued by the Commission from time to time, co-operate with the Commission in its co-ordination and management of the efficient use of the spectrum as a public resource and shall provide any assistance reasonably requested by the Commission for this purpose.
- 3.1.9 Subject to Article 3.2 below, the Authorisation Holder shall, in accordance with the Act and with any other applicable law, obtain all required approvals and rights of access for access to lands and or for the construction or erection of the facilities or of any equipment or other installation in relation to the use of the assigned frequency band.
- 3.1.10 The Authorisation Holder shall retain accurate and up-to-date detailed records of the operation of a telecommunications network or the provision of a telecommunications service on the assigned frequency band and shall make such information available to the Commission promptly upon request and without charge to the Commission in accordance with the Act.
- 3.1.11 Without prejudice to the provisions of the Act, the Authorisation Holder shall allow the Commission upon receiving reasonable prior notice to inspect the facilities, inclusive of the Authorisation Holder's equipment and shall provide any related assistance to

satisfy the Commission that the Authorisation Holder is in compliance with the terms and conditions of this Frequency Authorisation.

- 3.1.12 The Authorisation Holder shall not significantly change the location or any technical parameter of any transmitter used on the assigned frequency band without the prior approval of the Commission.

3.2 Construction of Sites

- 3.2.1 The Authorisation Holder shall ensure that the facilities are:
- a. used to the maximum possible extent, on a shared basis with other users of the spectrum, licensees and public utilities. To the extent that it is not considered feasible to use the existing facilities and utility installations, the Authorisation Holder shall submit such proof to the Commission as the Commission considers appropriate; and
 - b. designed and constructed in such a way that they blend in with the surrounding physical environment to the maximum possible extent and to the satisfaction of the Commission.
- 3.2.2 Except where the Commission exempts a specific type of facility from the requirements of Article 3.2.1 above, the Authorisation Holder, shall satisfy the Commission that the facilities, inclusive of the equipment hosted therein will comply such requirements.
- 3.2.3 The Commission may recommend changes to the design, structure or any other aspect of the facilities to ensure that the Authorisation Holder complies with the requirements of Article 3.2.1 (a) and (b).

3.3 Maintenance of Technical Records

- 3.3.1 The Authorisation Holder shall maintain accurate, up to date and detailed technical data in relation to the use of the assigned frequency band authorised by this Frequency Authorisation as follows:
- a. A plan for the use of the assigned radio-frequency channel identifying:
 - i. The name and address of each site used in relation to the assigned frequencies;
 - ii. A Site map of the Station including geographical location coordinates;
 - b. Specifications of the telecommunications equipment, including each antenna, used in the operation of any network or in the provision of any services on the assigned frequency band;
 - c. Details of transmitted power and assumed feeder and connector losses;
 - d. The design service availability for the link (e.g. 99.99%);
 - e. The effective radiated power (ERP), gain, polarisation and the radiated pattern of each antenna;
 - f. The orientation and height of each antenna above ground level;
 - g. The bit rate and modulation type for the link and;
 - h. The International Telecommunications Union emission designation.

3.3.2 The Authorisation Holder shall, subject to section 70 of the Act, provide the Commission with the records referred to in 3.3.1 above on a quarterly basis and in such form as might be specified by the Commission from time to time.

3.3.3 The Authorisation Holder shall notify the Commission of any proposed material changes to its radiocommunication service or radiotransmitting equipment, and shall provide the Commission with such information as the Commission shall reasonably require for the purpose of assessing the effect of such changes.

3.4 Enforcement

3.4.1 The Commission may take such enforcement action against the Authorisation Holder as it considers appropriate and or suspend or terminate this Frequency Authorisation in accordance with the Act.



SCHEDULE A

The Assigned Radio-Frequency Channels

The Commission hereby assigns to the Authorisation Holder the following radio-frequencies for the operation of fixed wireless telecommunications network and or the provision of telecommunications services subject to the terms and conditions of this Frequency Authorisation:

Assign Frequency (MHz)	Bandwidth (MHz)	Authorisation Number	Equipment Type	TX Power dbm	Location (Lat)1	Location (Long 1)	General Location1	Antena Model	Height Above Ground (m)1	Elevation Above Sea Level(m)1
12700.0-13250.0	550	VRGFX/0165/2016	Cable AML OTX-011	20	18° 26' 16.4" N	064° 36' 03.9" W	Bellevue, Tortola	10 Andrew	12.192	249.936
12700.0-13250.0	550	VRGFX/0166/2016	Cable AML OTX-011	20	18° 26' 16.4" N	064° 36' 03.9" W	Bellevue, Tortola	6 Andrew	12.192	249.936
12700.0-13250.0	550	VRGFX/0167/2016	Cable AML OAR-002	10	18° 29' 29.9" N	064° 24' 06.7" W	Virgin Gorda Peak, VG	10 Andrew	12.192	312.1152
12700.0-13250.0	550	VRGFX/0168/2016	Cable AML OTX-002	10	18° 25' 57.8" N	064° 39' 47.2" W	Cane Garden Bay, Tortola	6 Andrew	4.572	66.8

Location (Lat)2	Location (Long)2	General Location 2	Height Above Ground(m)2	Elevation Above Sea Level (m)	Gain (dB)	Effective Radiated Power (dBw)	Polorization (V/H)
18° 29' 29.9" N	064° 24' 06.7" W	Virgin Gorda Peak	12.192	312.1152	36	56	V
18° 27' 08.6" N	064° 25' 51.1" W	Spanish Town, VG	12.192	12.4968	36	56	V
18° 43' 12.6" N	064° 18' 54.9" W	Settlement, Anegada	12.192	2.1336	36	46	V
18° 26' 09.9" N	064° 43' 56.0" W	Jost Van Dyke	12.192	60.96	36	46	V

59

