



BERMUDA
**REGULATORY
AUTHORITY**

HDS-1 Advisory Panel

Notice pursuant to RFA Section 13.11

20 July 2016

1 Appointment

In accordance with Section 13.11 of the Request for Applications for the Assignment of Designated HDS-1 Frequencies in the 850 MHz, 700 MHz and 2100 MHz Bands (the “RFA”), the Authority hereby appoints an expert Advisory Panel to assist the Authority in evaluating the HDS-1 Applications.

2 Background/Context

On 31 May 2016, the Authority issued a Request for Applications for the Assignment of Designated HDS-1 Frequencies in the 850 MHz, 700 MHz and 2100 MHz Bands. The RFA sets forth the requirements and procedures for the Authority to potentially assign certain HDS-1 Lots to Applicants. Section 13.11 of the RFA provides for the appointment of an expert Advisory Panel by the Authority, which may include up to three external experts “on the basis of their expertise and high level of independence and impartiality.”

All defined terms used in this document shall have the meaning set forth in the RFA, unless otherwise defined herein.

3 Purpose of the Advisory Panel

The purpose of the Advisory Panel is to assist the Authority with the overall evaluation process for HDS-1 in accordance with Section 35 of the RAA and Section 14.3.4 of the RFA.

4 Membership of the Advisory Panel

The Advisory Panel shall comprise:

- Matthew Copeland
 - Matthew Copeland is the Chief Executive of the Regulatory Authority. He has a wide range of senior regulatory and strategic experience in fixed and mobile telecommunications networks. He was part of the management team that developed and launched one of Europe’s first GSM 1800 mobile networks (Orange now part of BT/EE group in the UK). He was Director of Strategic and Regulatory Affairs at Telewest Plc, a cable TV/broadband company that built high speed fiber/coax network to approximately 6 million UK homes.

- Mr. Copeland was part of the management team that merged Telewest with NTL to create what became Virgin Media, a cable broadband/TV network that goes past 14 million UK homes. He has acted as a high level advisor to companies such as Sky Plc, Liberty Global and 4G networks, in the areas of spectrum and regulatory strategy. He has advised UK Local Enterprise Partnerships on broadband policy and Government intervention to rectify broadband network coverage. On behalf of a 4G network (UKB/PCCW Group of Hong Kong), he was responsible for a submission to the European Commission on the role of 4G LTE wireless networks in resolving the broadband deficit in the rural and sub-urban areas of Europe.
- Michael Wells
 - Michael Wells is the Chief Technical Officer of the Regulatory Authority. He is a trained Electrical Engineer, who specializes in Power Systems, Telecommunications Systems (Fixed, and Wireless). He has worked in the United States of America through Hitachi Telecom, and Movaz Networks located in Atlanta, Georgia both companies specializing in Dense Wavelength Division Multiplexing (DWDM). With this background, he brings a high level of experience in both Energy and Telecommunications sectors. He was also a key member in the introduction of the Regulatory Authority and Electronic Communications Acts 2011 while at the Government Department of Telecommunications.
 - Mr. Wells has a Master's Degree in Electrical Engineering from the Florida Institute of Technology and has also earned Institute of Electrical and Electronics Engineers (IEEE) certifications as well as numerous others accolades, thus making Mr. Wells a well-rounded technical expert across multiple disciplines.
 - Mr. Wells remains a long standing member of the IEEE Power & Energy and Communications Societies.
- Professor William Webb
 - Professor William Webb is a highly regarded expert in the world of wireless communications. He is currently pioneering a new global standard for wireless M2M communications, Weightless, which he was instrumental in designing. He established the standard body, the Weightless Special Interest Group (SIG), of which he is CEO, wrote the book "Understanding Weightless" and presents worldwide on the possibilities it offers. He has 17 patents pending or granted for the technology. He was a co-founder and Chief Technical Officer of Neul, a Cambridge start-up established to commercialise Weightless technology.
 - Prior to this, Professor Webb led the formation of spectrum strategy at the Office of Communications (Ofcom), authoring the "Spectrum Framework Review" and leading on new spectrum property rights, white space spectrum access and running Ofcom's research and development activities. He has worked as Director of Corporate Strategy at Motorola and for a range of consulting companies. His PhD pioneered variable level modulation for wireless links – a technique now used in virtually all wireless communications systems.

- He was recently elected Deputy President of the Institution of Engineering and Technology, the UK institute for engineering, with over 150,000 members and is President-elect, taking on the role in October 2014. He is on the Board of Cambridge Wireless, a member of Ofcom's Spectrum Advisory Board (OSAB), on the Board of TPRC, a judge of the Wall Street Journal's innovation awards since 2002 and has chaired major IEEE conferences. He is a Visiting Professor at the 5G centre at Surrey University and holds an MBA. He has authored 12 books, over 100 papers and contributes weekly to articles around the world. Professor Webb has been widely recognised by his peers. In 2005 he became one of the youngest ever Fellows of the Royal Academy of Engineering, a select group of the top engineers in the UK, with entry limited to 50 top achievers per year. In 2007 he was elected a Fellow of the Institute of Electrical and Electronics Engineers, a grade restricted to only 0.1% of the membership.
- Professor Dennis Roberson
 - Dennis Roberson has been Vice Provost and Research Professor with the Illinois Institute of Technology (IIT) since June 2003, where he established a new undergraduate business school, a wireless research centre (WiNCom), IIT's corporate relations initiative, and is currently responsible for the latter two efforts and IIT's Research efforts, strategic plan assessment, and its technology commercialization office and externally focused entrepreneurial efforts.
 - Professor Roberson is also President, CEO and Member of Roberson and Associates, LLC, a technology and management consulting firm serving a variety of government and commercial customers since 2008. Professor Roberson's industry experience includes serving as Executive Vice President and Chief Technical Officer of Motorola, Inc. from 1998 to 2004 and holding senior executive positions with NCR Corporation, AT&T, Digital Equipment Corp. (now part of Hewlett Packard) and IBM from 1971 to 1998. Professor Roberson is a Director of Advanced Diamond Technologies, Cleversafe, Caerus Institute, OnKol and SonSet Solutions.
 - Professor Roberson also chairs the U.S. Federal Communication Commission's Technology Advisory Council and serves on the U.S. Commerce Department's Commerce Spectrum Management Advisory Committee (CSMAC). He has served as an invited expert for the development of the PCAST Spectrum Policy Report, the Board of Directors of FIRST Robotics, the National Advisory Council for the Boy Scouts of America, the Board of Singapore's Agency for Science, Technology and Research, and as an International Advisory Panel member for the Prime Minister of Malaysia. He holds Bachelor of Science Degrees in Physics and Electrical Engineering from Washington State University and a Master of Science in Electrical Engineering from Stanford University.

5 Resources

The Authority has engaged the spectrum consultancy, Plum Consulting Limited ("Plum"), and the international law firm of Squire Patton Boggs, specialists in legal and regulatory advice in relation to spectrum management and assignment, to serve as resources to the Authority and the Advisory Panel, providing technical, economic, regulatory, and legal support. The Authority shall be responsible for all charges relating to the advisors' provision of services during HDS-1.

6 Procedures and Deliverable

The Advisory Panel will review the Applications in accordance with the RFA and the instructions of the Authority in accordance with RFA Section 14.3.4. The Advisory Panel will provide its recommendation to the Authority along with its reasoning in support of the same.

7 Timeline

The Advisory Panel shall remain in existence until the Authority concludes the HDS-1 process in accordance with Section 16 of the RFA.