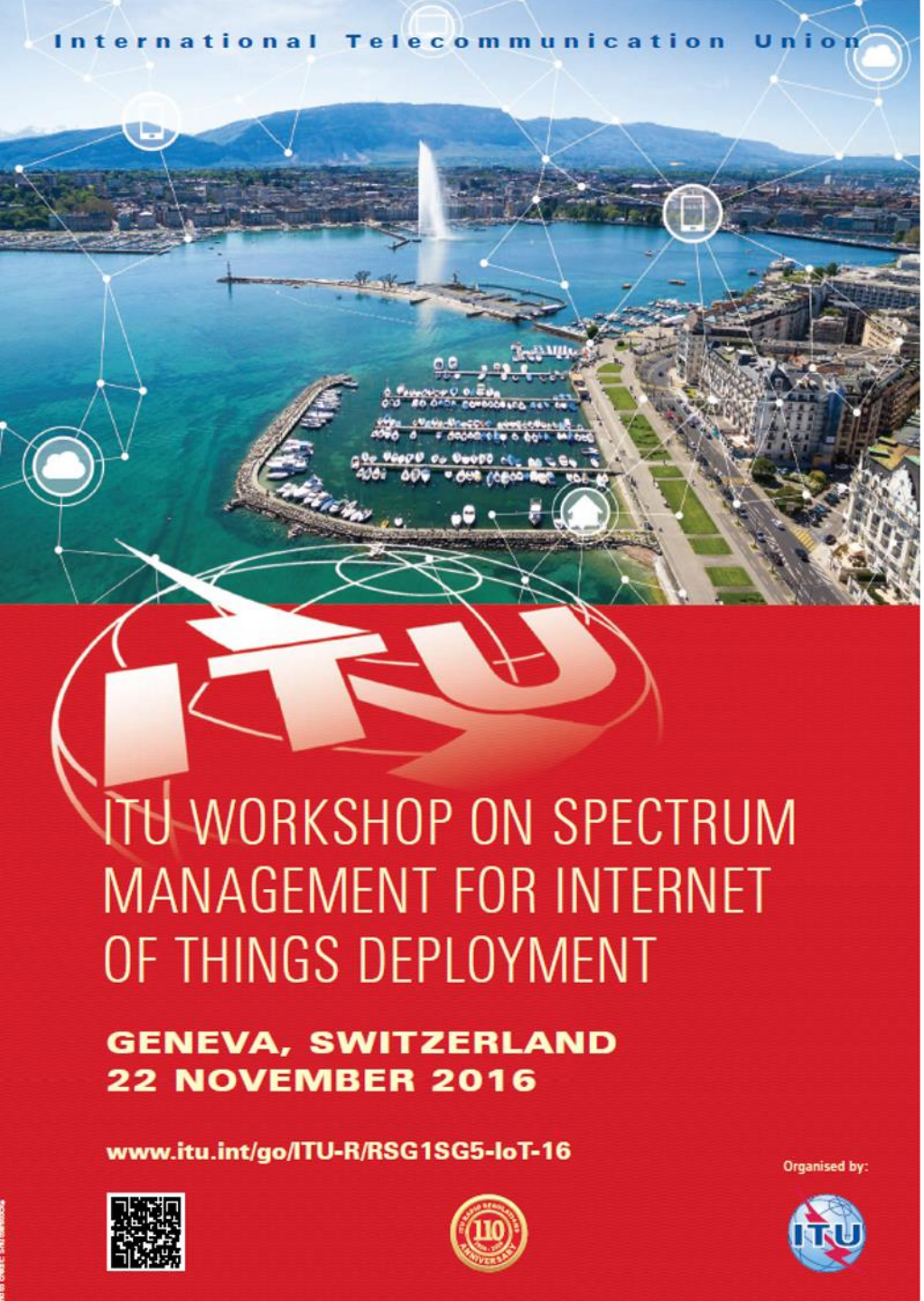

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English only

ITU Workshop on Spectrum Management for Internet of Things Deployment (Geneva, 22 November 2016)

APT Wireless Group deliverables and activities directly or in-directly related to IoT deployment

John Lewis
Chairman, AWG Working Group on Spectrum Aspects

The Asia-Pacific Telecommunity Wireless Group

Introduction

The APT Wireless Group (AWG) is covering various aspects of emerging wireless systems including IMT/IMT-Advanced to meet the upcoming digital convergence era in the Asia-Pacific region. It is assisting the process of providing cost effective radiocommunications solutions and facilitating the transfer of technology.

The Terms of References of the APT Wireless Group are as follows:

Carry out studies and develop outputs to facilitate the harmonization of spectrum usage, the efficient and effective deployment of radiocommunication systems, and the development of new radiocommunication technologies and applications.

Support and assist APT Members in using the radio frequency spectrum and deploying radio network effectively.

Share information on spectrum usage and emerging radiocommunication technologies and applications, within the Asia-Pacific region.

Encourage radiocommunication industry research and development, and promote related telecommunication business activities.

Perform technical and operational studies as support for World Radiocommunication Conferences (WRCs) if requested by the APT Preparatory Group for WRCs.

To communicate with, as well as develop APT proposals to related international and regional organizations on radiocommunication matters, as appropriate, to promote the interests of APT Members.

The Asia-Pacific Telecommunity Wireless Group (continued)

Objectives

The principle objectives of the AWG are:

To facilitate regional harmonization of spectrum usage;

To assist and support APT Members in using the radio frequency spectrum effectively;

To facilitate the efficient and effective deployment of radiocommunication systems in the Asia-Pacific region;

To promote the introduction and development of new radiocommunication technologies and applications in the Asia-Pacific region and to propose cost effective implementation solutions;

To promote interests of APT Members in related international and regional organizations on radiocommunication matters, as appropriate.

Structure

APT Wireless Group is composed of the Chairman, vice-Chairmen and Working Groups. Currently there are three Working Groups. Working Groups consist of several Sub-Working Groups and Task Groups. The three WGs are:

Working Group on Spectrum Aspects (WG SPEC)

Working Group on Technology Aspects (WG TECH)

Working Group on Service and Applications (WG S&A)

(See http://www.apt.int/APTAWG)

AWG Studies recently completed of interest to WP1B

APT/AWG/REP-07(Rev.4) – "APT Survey Report on Operation of Short-Range Devices (SRDs)" - February 2016

This Survey Report provides information from AWG member administrations on the type approval process, Mutual Recognition Agreement (MRA) arrangement, licensing requirements, operating parameters as well as future policies in the Asia Pacific region based on the survey results.

APT/AWG/REP-66 – APT Report on "Short Range Radiocommunication Systems and Application Scenarios Operating in the Frequency Range 275-1000GHz" - September 2016

This Report describes the short range systems operating in the frequency band between 275 and 1000 GHz. These systems have such features as large contiguous bandwidth, high attenuation loss, high effective isotropic radiated power (EIRP) and extremely small dimensions of components. The large contiguous bandwidth can be utilized to transmit high speed data rate such as 50-100 Gbps by binary or quadrature modulation schemes which make transceiver simple. These features are able to accelerate the terahertz devices to the markets in the near future.

AWG Studies recently completed of interest to WP1B (continued)

PT/AWG/REP-68 – APT Report on "Authorized/Licensed Shared Access as a National Solution to Access Spectrum for IMT - September 2016

This report evaluates the potential of using Authorized/Licensed Shared Access (ASA/LSA) mechanisms for users / consumers in a country where an existing harmonized IMT frequency band cannot be fully vacated for IMT use but could be implemented based on agreed sharing conditions where the incumbent service can be maintained for a foreseeable period of time.

Access to APT/AWG Reports - See http://www.apt.int/AWG-RECS-REPS

AWG activities relation to the Internet of Things

Activities related to IoT are underway are being undertaken by a number of AWG members. Up until now no studies have commenced in AWG on IoT.

At the AWG-20 meeting, recently concluded in Bangkok, the AWG Working Group on Technology Aspects considered how best to handle SRD matters in its future work. Furthermore, it was considered that emerging technologies such as IoT could be dealt with in the Technology Working Group. In consequence, the AWG Task Group on SRD would review its terms of reference and develop a new workplan in relation to IoT. This would be undertaken at the AWG-21 meeting, tentatively planned for the first week in April 2017.

Any Questions?