

# 4 管理無線電頻譜 保持技術優勢

## Managing the Radio Spectrum and Sustaining Technical Excellence

### 管理香港電訊設備鑑定及驗證計劃

為了配合國際最佳做法，由2009年10月1日開始，原先由前電訊管理局負責的電訊設備測試和驗證服務已移交予合資格的本地測試實驗室。這些實驗室獲通訊局認可為本地認證機構，可提供全面的電訊設備測試和驗證服務。在2015 / 16年度，本地認證機構簽發了424份設備認證，以應付電訊設備市場的需求。

為確保提供電訊設備測試和驗證服務的所有本地認證機構符合通訊辦訂下的服務質素及表現標準，我們會繼續密切監察認證機構的表現，包括定期查核文件、視察實驗場所和檢查他們的工作。目前，所有本地認證機構的表現均符合通訊辦所指明的標準。

我們一直監察電訊技術標準化的國際發展趨勢，並更新本地技術標準，以滿足業界和公眾的需要。在2015 / 16年度，我們共發出三份有關技術標準化事宜的文件諮詢業界，通訊局亦批准和發出了兩項經修訂的技術標準。

### 大廈內同軸電纜分配系統頻道的頻率指配

在2015 / 16年度，通訊辦在協助通訊局進行有線電視的收費電視服務牌照續期工作時，一併協助通訊局檢討指配大廈內同軸電纜分配系統頻道予有線電視以傳送本地收費電視服務的安排。



### 規劃頻帶以引進新用途

為滿足業界和公眾對須使用無線電頻譜的新用途的需求，我們一直密切監察海外各地在頻譜管理和提升技術方面的發展，務求適時編配新頻帶，利便引進該等用途。在2015 / 16年度，我們就57至66吉赫頻帶、71至76吉赫頻帶 / 81至86吉赫頻帶和76至81吉赫頻帶的頻率規劃進行研究。該三段頻帶分別可供短程裝置、固定鏈路 / 流動服務和汽車雷達使用。

### 衛星網絡的頻譜和軌道位置管理

衛星頻譜和軌道位置屬有限的天然資源。我們的職責是確保在香港註冊的通訊衛星在使用該等資源時恪守國際電聯訂定的國際做法。在亞太9號衛星這枚新衛星於2015年投入服務後，共有十枚在軌衛星由香港兩家提供衛星通訊服務的持牌公司操作。

## Administration of the Hong Kong Telecommunications Equipment Evaluation and Certification Scheme

To keep pace with international best practices, commencing 1 October 2009, the testing and certification services for telecommunications equipment, which were previously provided by the then Office of the Telecommunications Authority, were transferred to qualified local testing laboratories. Laboratories accredited by the CA as local certification bodies (“LCBs”) can offer a full range of telecommunications equipment-testing and certification services. In 2015/16, the LCBs issued 424 equipment certificates to meet the needs of the telecommunications equipment market.

To ensure that all LCBs providing telecommunications equipment-testing and certification services meet the service quality and performance standards prescribed by OFCA, we will continue to closely monitor their performance by conducting documentary checks, plant visits and reviews on a regular basis. So far, all LCBs have been performing up to the standards prescribed by OFCA.

We constantly monitor international developments in telecommunications standardisation, and update local technical standards in order to meet the needs of the industry and the public. In 2015/16, a total of three papers were issued to consult the industry on matters related to standardisation, and two revised technical standards were approved and issued by the CA.

## Frequency Assignment of In-building Co-axial Cable Distribution System Channels

In 2015/16, OFCA assisted the CA in reviewing the assignment of In-building Co-axial Cable Distribution System (“IBCCDS”) channels to HKCTV for conveyance of domestic pay TV services in conjunction with the renewal exercise of HKCTV’s pay TV service licence.

## Frequency Band Planning for the Introduction of New Applications

To meet the demand of the industry and the public for new applications that require the use of radio spectrum, we constantly monitor overseas developments of spectrum management and progress of related technology advancement, with a view to allocating timely new frequency bands to facilitate the introduction of these applications. In 2015/16, we conducted study on the frequency plan for the bands 57-66 GHz, 71-76 GHz/81-86 GHz and 76-81 GHz. The three frequency bands may be used for deployment of short-range devices, fixed links/mobile services and automotive radars respectively.

## Management of Spectrum and Orbital Positions for Satellite Networks

Satellite spectrum and orbital positions are limited natural resources. It is our duty to ensure that the use of these resources by communications satellites registered in Hong Kong adheres to the international practices of the ITU. Following the launch of a new satellite APSTAR 9 in 2015, there were ten satellites in orbit operated by two Hong Kong companies licensed to provide satellite communications services.