

美國確立2305-2360MHz區間行動寬頻服務發展規範



自2001年以來，美國長期無法解決2305-2360MHz頻段上，相鄰之衛星數位音訊廣播服務（Satellite Digital Audio Radio Service, SDARS）業者與無線通訊服務（Wireless Communications Service, WCS）業者雙方相互干擾之疑慮。此一爭議在2012年10月17日美國聯邦通訊委員會（FCC）發布FCC 12-130再審查命令（Order on Reconsideration FCC 12-130，下稱12-130命令）後獲得解決。

使用頻段位於2305-2320MHz與2345-2360MHz之無線通訊服務(WCS)與位於2320-2345MHz頻段之衛星數位音訊廣播服務(SDARS)由於個別之訊號傳輸技術差異大，並且長久以來無法在干擾處理的議題上達成共識，而抑制了無線通訊服務(WCS)於該頻譜上之發展。為實現WCS業者得於該頻段發展行動寬頻業務之承諾，並確保美國大眾能繼續享有高品質的衛星廣播服務，FCC本次針對2010年所頒布之命令(FCC10-82)進行再次修訂與檢討，以確立位於2.3GHz頻帶WCS所屬之頻段得發展新興寬頻服務，並促進SDARS地面中繼器(terrestrial repeaters)之佈署及運作更加彈性化。

12-130命令之頒布，可視為WCS頻帶發展的重要里程碑。該命令除了確保相鄰頻帶之衛星廣播服務(satellite radio)、航空行動遙測技術(aeronautical mobile telemetry)以及位於美國加州所佈署之深空網路(deep space network)地面站其訊號不受干擾以外，FCC更透過制訂各項參數與管理規則，一方面降低WCS營運時對於SDARS接收者可能產生的潛在干擾，另一方面則幫助位於2.3GHz的WCS業者有能力提供固定或行動寬頻服務，以促進WCS業者與SDARS業者和諧共存。

對於FCC最後決定採用修改管制規範方式釋出該頻段以發展行動寬頻服務之舉，FCC主席Genachowski表示，除有助於鞏固美國身為全球發展LTE技術領導者之地位外，更認為命令中的管制障礙排除模式可幫助未來其他頻段的清理或移頻，增加頻譜使用彈性，並有助於達成國家寬頻計畫(National Broadband Plan's)所設定之「2015年釋出300MHz總頻寬」、「2020年釋出500MHz總頻寬」目標。

相關連結

- [FCC, Statement of Chairman Julius Genachowski Re Amendment of Part 27 of the Commission's Rules to Govern the Operation of Wireless Communications Services in the 2.3 GHz Band; Establishment of Rules](#)
- [FCC, FCC Removes regulatory barriers to free up 30MHz of broadband spectrum , News, \(Released: October 17, 2012\).](#)

相關附件

- [FCC, Amendment of Part 27 of the Commission's Rules to Govern the Operation of Wireless Communications Services in the 2.3 GHz Band ; Establishment of Rules and Policies for the Digital Audio Radio Sa \[pdf\]](#)
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上稿時間：2012年12月

資料來源：

FCC, FCC Removes regulatory barriers to free up 30MHz of broadband spectrum , News, (Released: October 17, 2012),<http://www.fcc.gov/document/fcc-removes-barriers-free-spectrum> (last visited Nov. 14, 2012).

FCC, Amendment of Part 27 of the Commission's Rules to Govern the Operation of Wireless Communications Services in the 2.3 GHz Band ; Establishment of Rules and Policies for the Digital Audio Radio Satellite Service in the 2310-2360 MHz Frequency Band, Order on Reconsideration, WT Docket 07-293, IB Docket No. 95-91, FCC12-130(Released: Oct. 17, 2012). http://transition.fcc.gov/Daily_Releases/Daily_Business/2012/db1023/FCC-12-130A1.pdf(last visited Nov. 20, 2012).

FCC, Amendment of Part 27 of the Commission's Rules to Govern the Operation of Wireless Communications Services in the 2.3 GHz Band ; Establishment of Rules and Policies for the Digital Audio Radio Satellite Service in the 2310-2360 MHz Frequency Band, Report and Order and Second Report and Order, WT Docket 07-293, IB Docket No. 95-91 GEN Docket No. 90-357 RM-8610, FCC10-82(Released: May 20, 2010).

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