

**Before the
Federal Communications Commission
Washington, DC 20554**

In the Matter of)	
)	DA-10-592
Comment Sought on Draft Interference rules for the Wireless Communications Service and Satellite Digital Audio Radio Service)	
)	
Amendment of Part 27 of the Commission's Rules to Govern the Operation of Wireless Communications Services in the 2.3 GHz Band)	WT Docket No. 07-293
)	
Establishment of Rules and Policies for the Digital Audio Radio Satellite Service in the 2310-2360 MHz Frequency Band)	IB Docket No. 95-91
)	

COMMENTS OF

THE TELECOMMUNICATIONS INDUSTRY ASSOCIATION

INTRODUCTION.

The Telecommunications Industry Association (TIA) hereby submits comments to the Federal Communications Commission (Commission) in the above-captioned proceeding.¹ TIA appreciates the efforts of the Commission to ensure rapid deployment of Wireless Communications Services (WCS), and is eager to ensure that related interference rules protect all impacted services.

¹ See Comment Sought on Draft Interference rules for the Wireless Communications Service and Satellite Digital Audio Radio Service, WT Docket No. 07-293, IB Docket No. 95-91, DA-10-592 (rel. Apr. 2, 2010) (WCS/SDARS Interference Inquiry).

TIA represents the global information and communications technology (ICT) industry through standards development, advocacy, tradeshow, business opportunities, market intelligence and world-wide environmental regulatory analysis. Its 500 member companies manufacture or supply the products and services used in the provision of broadband and broadband-enabled applications. Since 1924, TIA has enhanced the business environment for broadband, mobile wireless, information technology, networks, cable, satellite and unified communications. Members' products and services empower communications in every industry and market, including healthcare, education, security, public safety, transportation, government, the military, the environment and entertainment.

SUMMARY.

The National Broadband Plan identifies WCS spectrum as ripe for use by wireless broadband providers. To allow deployment of WCS services, it is vital that effective interference rules are adopted that protect Satellite Digital Audio Radio Service (SDARS) and federal and non-federal Aeronautical Mobile Telemetry (AMT) operations, which provide vital aeronautical testing that ensures the safety of aircraft operations. The interference rules adopted by the Commission should accomplish this goal. However, TIA urges the Commission to ensure that WCS services and devices can operate in a practical and useful manner with the proposed duty cycle limits. Finally, TIA recommends that the differences between proposed time division duplex (TDD) and frequency division duplex (FDD) duty cycles are clarified.

DISCUSSION.

I. DEPLOYING WIRELESS BROADBAND IN THE WCS BAND IS VITAL TO INCREASING WIRELESS BROADBAND SPECTRUM AND MEETING THE GOALS OF THE NATIONAL BROADBAND PLAN.

As the National Broadband Plan makes clear, WCS spectrum “may provide fertile ground for the provision of high-value mobile broadband services to the public.”² TIA agrees with the National Broadband Plan that the Commission should rapidly ensure that the WCS spectrum is used for the benefit of all Americans.

The significant technological progress in wireless broadband services, devices, and applications are deeply impacted by spectrum availability. TIA lauds the National Broadband Plan’s recognition of this,³ and sees the rapid establishment of sound and effective interference rules for the WCS operations to protect incumbent services as crucial to making 20 MHz of spectrum available for wireless broadband. However, it is important to avoid unnecessary delays in establishing WCS interference rules based on sound science. Accordingly, TIA urges the Commission to consider the interests of all parties as established in the record and finalize WCS interference rules.

II. THE COMMISSION SHOULD RECONSIDER DUTY CYCLE RATIOS.

As the Commission seeks to make 20 MHz available for mobile broadband use in the WCS band, it is vital that SDARS and AMT operations which are adjacent to the WCS band be

² FEDERAL COMMUNICATIONS COMMISSION OMNIBUS BROADBAND INITIATIVE, CONNECTING AMERICA: THE NATIONAL BROADBAND PLAN (2010) (National Broadband Plan) at 85.

³ *See id.* (“Ultimately, the cost of not securing enough spectrum may be higher prices, poorer service, lost productivity, loss of competitive advantage and untapped innovation.”).

protected.⁴ In order to accomplish this, the Commission has, among other provisions, proposed duty cycles for mobile and portable stations using TDD technology of no more than 38 percent in the 2305-2317.5 MHz and 2347.5-2360 MHz bands. Further, the proposed rules require that for FDD technology, the duty cycle must not exceed 12.5 percent in the 2305-2317.5 MHz band. Additionally, mobile and portable stations using FDD may only transmit in the 2305-2317.5 MHz band.⁵

TIA is concerned that these proposed duty cycle limits constrain operation of WCS. Moreover, the Commission has not explained the discrepancy between its proposed TDD and FDD duty cycles. Both of these provisions could severely limit the user experience of WCS services and render WCS operations infeasible. Further, adoption of these limits may delay deployment of mobile broadband services. Thus, TIA agrees with the WCS Coalition that the Commission should abandon any limitations based on duty cycle.⁶ If the Commission does proceed to impose duty cycle limits, it must ensure that these limits allow WCS operations in a manner that enables service and device provision and reconcile the discrepancy between FDD and TDD cycle limits.

⁴ *See id.*

⁵ *See* WCS/SDARS Interference Inquiry at 9.

⁶ *See* Letter from Paul J. Sinderbrand, Counsel to the WCS Coalition, to Marlene H. Dortch, Secretary, Federal Communications Commission, WT Docket No. 07-293 at 1 (filed March 31, 2010).

CONCLUSION.

For the foregoing reasons, TIA encourages the Commission to take action in this proceeding consistent with the recommendations set out above.

Respectfully submitted,

TELECOMMUNICATIONS INDUSTRY
ASSOCIATION

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April 23, 2010