Continental

Autonomous Mobility

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Date
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Our reference
Mexico *Public Consultation on Draft Agreement to Modify the National Frequency Allocation Chart* / Request for regulation for 77-81 GHz Band for Vehicle Radar use

Dear Madame or Sir,

Thank you for opening the "**Public Consultation on Draft Agreement to Modify the National Frequency Allocation Chart**", which will allow industry to file specific frequency requests.

We, Continental **ADC Automotive Distance Control Systems GmbH**, manufacturer of driver assistance systems, located in Germany. Continental is operating an R&D Center in Mexico in Queretaro, also working on driver assist system for many years now.

Continental welcomes the public consultation and would like to use the opportunity to set-up a request for regulation / and licensing of the 77-81 GHz band for vehicle / automotive radar applications in Mexico

Application and technical info for our request::
The 76-77 GHz is a well-established frequency band for vehicle radar applications around the world, and also regulated in Mexico by the provisions of the official letter "**IFT/222/UER/DG-IEET/1023/2017 dated August 15, 2017"**

Considering new driver assist applications and safety features, radar sensor manufacturers around the world are planning to extend radar sensors also to the **adjacent frequency band 77 – 81 GHz**.

Applications include but are not limited to e.g. Short Range Radar (SRR) for obstacle detection, stop&go, blind spot detection and pre-crash warning, Level 3 driving environmental perception, intersection assistance, parking assist and autonomous parking.

Many of the above listed functions require higher bandwidth , not provided by the given Mexico allocation and regulation of the 76-77 GHz band. **The 4 GHz bandwidth** of the 77-81 GHz band will enable advanced performance in resolution and support flexibility in the frequency use in a multi sensor vehicle environment for safety reasons.

Therefore, the 77-81 GHz band will be an important part of enabling vehicle automation features from driver support for safety assist functions up to automated driving.

Providing a regulation for operation in 77-81 GHz will allow to provide such vehicle safety and driver assist functions also to the Mexican market.

Regulation references:

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The 76-81 GHz band has also been allocated by ITU for Radio Location Services. The **ITU Recommendation M.2057-1 (01/2018) which** covers the "**Systems characteristics of automotive radars operating in the frequency band 76-81 GHz for intelligent transport systems applications**": Link: https://www.itu.int/rec/R-REC-M.2057-1-201801-I/en

Continental ADC proposes to also consider **the 76-81 GHz rules already released in North and South America countries.** A merged band implementation combining the 76-77 GHz and 77-81 GHz band to one regulation would be beneficial for industry, and also simplify the approval process.

Reference to other America countries, where regulations for 76-81 GHz band are implemented. :

Country / Region	**Regulation / Radio Standard**	**Power ***	**Other**
Brazil	NATIONAL AGENCY FOR COMMUNICATIONS 'ATO Nr. 4776 (01.09.2020)	Peak: 55 dBm	*Freq. Range 76 - 81 GHZ, incl. 76-77 GHz*
Canada	Industry Canada RSS-251, Issue 2 July 2018	50 dBm Peak: 55 dBm	*Freq. Range 76 - 81 GHZ, incl. 76-77 GHz*
USA	FCC part 95 Sept 2017	50 dBm Peak: 55 dBm	*Freq. Range 76 - 81 GHZ, incl. 76-77 GHz*

Thank you for reviewing our application and proposals for 77-81 GHz band regulation and taking in consideration. A positive outcome would be well appreciated.

Please contact us if you have any further questions about the request.

Best Regards,

[redacted] [redacted]

Name: [redacted]
Title: Head of Homologation Radar

Senior Expert Radio Regulations & Device Approvals

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