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DateOur reference27.06.2024Mexico 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: <u>https://www.itu.int/rec/R-REC-M.2057-1-201801-l/en</u>

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. :

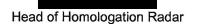
Country / Region	Regulation / Radio Standard	Power *	Other
Brazil	NATIONAL AGENCY FOR COMMUNICATIONS 'ATO Nr. 4776 (01.09.2020)	Peak: 55 dBm	Freq. Range 76 - 81 GHZ, incl. 76-77 GHz
Canada	Industry Canada RSS-251, Issue 2 July 2018	50 dBm Peak: 55 dBm	Freq. Range 76 - 81 GHZ, incl. 76-77 GHz
USA	FCC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

Name: Title:





Senior Expert Radio Regulations & Device Approvals

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