# Call for Submissions – 802.19 TG2

# Background

Wireless LAN (WLAN) devices are used in diverse environments. One of the environments with rapidly increasing deployment is the automotive environment. However, this environment differs from the enterprise or residential environments. In particular, very high congestion of both access points and stations (e.g. in traffic jams) situations with inter-AP distance of about 2m-3m and rapid time varying channel response due to automotive mobility. Additionally there is the mobility effect on the wireless channel even in the scenario of static AP and STAs inside the vehicle caused by signal reflections from outside elements. Moreover, there is an extensive use of other non IEEE 802 technologies in the 2.4GHz band, which requires consideration of coexistence issues. Failing to address these issues could result in a poor user experience. For example, in some scenarios users can get as low a throughput as 1Mbps with an 802.11n AP.

As this environment is a challenging environment for IEEE 802 devices, a TG under the 802.19 called TG2 was formed, aiming to improve coexistence and hence improve the devices’ performance.

# Call for submissions

The group is developing a recommended practice, which is recommending parameter values to the existing IEEE 802.11 and IEEE 802.15 standards, for operation within an automotive environment. Example for such parameters can be the BW (20MHz/40MHz), transmit power and channel number, as well as mechanisms such as channel search and CTS to self.

The group calls for submission on the following topics:

* Study of coexistence issues unique to the automotive environment
* Solutions to the coexistence issues in the automotive environment

# Submission deadline

Please upload your final submission to the Mentor before July 8th, 23:59 EDT.

# Contacts

For any additional information, please contact:

* Igal Kotzer, chair – igal.kotzer@gm.com
* Alaa Mourad, vice chair – Alaa.Mourad@bmw.de