

Wideband in Car-Hands Free

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Wideband speech services in cars will be a great improvement compared to narrowband speech services, especially for the driver inside the car: Wideband speech reduces drivers' distraction, increases the intelligibility and reduces the perception of poor speech quality when switching between audio presentation and speech communication. The support of such services by the different networks and services also forms the basis for the integration of wideband speech hands-free services in cars. However, to achieve a superior speech quality inside the car all elements involved in the transmission have to provide adequate speech quality. This includes the Bluetooth link used to connect the hands-free car system via the mobile terminal, the mobile terminal and the IP-based fixed network as well. The presentation will give an overview about the state of the art of the connections used today and their impact on speech quality. Relevant measurements for the qualification and optimization of wideband car hands-free systems are introduced and their relevance for the different parameters contributing to the speech quality are discussed based on the new ITU-T Focus Group CarCom specification.

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