



**Future actions to improve the connectivity and voice quality of mobile phones wirelessly connected with vehicle hands-free terminals**

## GOALS

- Improving quality of hands-free connection of the mobile phones with car's hands-free terminals (HFT)
- Raising awareness about entire issue and “whitelist” among phone's users and car's holders
- Increasing road safety by using stable and high quality voice connection in a car
- Enhancing cooperation between automotive and phone industries on new ICT technologies to be used in vehicles  
*(potential mutual interest for future joint projects – CarPlay, ITS, self-driving cars, etc.)*



## KEY DIRECTIONS


- **Updating the whitelist registering new state-of-art mobile phones**  
*(conducting ITU test events, including on-demand testing)*
- **Establishing the new Certification scheme on ITU-T P.1100 and P.1110**  
*(ITU-T CASC is discussing a possibility to set up a new joint certification scheme with existing bodies such as IEC, ILAC, GCF)*
- **Establishing a special logo which may appear on a HFT's display in a car when a 'whitelisted' phone connects to it**




# WHITELIST

[www.itu.int/go/phone\\_whitelist](http://www.itu.int/go/phone_whitelist)

## Best hands-free performers



Committed to connecting the world



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- Members' Zone
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### Compatibility of mobile phones and vehicle hands-free terminals

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SHARE    

#### 'Whitelist' of the best hands-free performers

A mobile phone connected via short-range wireless communication (Bluetooth®) to a vehicle's hands-free telephone system must satisfy certain requirements to achieve high-quality voice conversations.

The phones listed are proven to achieve the desired quality of voice conversation by meeting the requirements of the 'Chapter 12 tests' of Recommendations ITU-T P.1100 (narrowband) and/or P.1110 (wideband), standards for communications involving motor vehicles.

For a demonstration of the desired quality, listen to an audio [sample of high quality](#) in comparison with a [sample of substandard quality](#).

More audio samples are available [here](#).



#### RELATED LINKS

- Why my mobile phone does not sound good in a car
- Testing requirements and methodology
- ITU-T Recommendation P.1100 "Narrow-band hands-free communication in motor vehicles" (01/2015)
- ITU-T Recommendation P.1110 "Wideband hands-free communication in motor vehicles" (01/2015)
- Technical problems observed
- Roundtables
- Roundtable *New* (10 March 2017)
- Test events

Mobile phone	Vendor	Software	Compliant with	ITU test event



## NEW CERTIFICATION SCHEME ON ITU-T P.1100 AND P.1110

- The Conformity Assessment Steering Committee (**ITU-T CASC**) was **established in April 2015** by ITU-T SG11 to elaborate detailed procedures for the implementation of a test laboratory recognition procedure in ITU-T
- SG11 approved two Guidelines:
  - **Guideline “Testing laboratories recognition procedure”**
  - **Guideline “ITU-T CASC procedure to appoint ITU-T technical experts”**
- Currently, ITU-T CASC, in collaboration with IEC TF, is working on two guidelines:
  - **Guidelines-CP-AB “Guideline on ITU-T CASC collaboration procedure with established accreditation bodies to assess TLs in the scope of approved ITU-T Recommendations”**
  - **Guideline-RP-TL “Guideline on ITU-T CASC procedure to recognize Testing Laboratories”**
- According to the request received from ITU members, ITU-T CASC established a list of ITU-T Recommendations which will become subjects of the **future joint certification schemes** (*ITU-T P.1100, ITU-T P.1110 are among them*)
- Currently, ITU-T CASC is collaborating with IEC, ILAC and GCF



# LOGO FOR CAR'S HANDS-FREE DISPLAY (authentication procedure)

