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| INTERNATIONAL TELECOMMUNICATION UNION | **Focus Group OnCar Communication** |
| **TELECOMMUNICATIONSTANDARDIZATION SECTOR**STUDY PERIOD 2009-2012 | **FG CarCOM-C-35rev1** |
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| **CONTRIBUTION** |
| **Source:** | Volkswagen AG, Technische Universität Braunschweig |
| **Title:** | Proposal of a Noise Distortion Measure |

**Update of the Noise Distortion Measure Proposal**

**(Signal Enhancement Subsystem)**

On the last FG CarCOM meeting on 12.-13.04.2011 in Kyoto, we presented an improved objective noise distortion measure focussing on musical tones, which can be applied to both wideband and narrowband noise distortion measurement. The group has come to an agreement to include this noise distortion measure as a diagnostic tool into an Annex of the FG CarCom draft “SubSystem Requirements for Automotive Speech Services”. In addition, the group asked for an update of the two QoS tables for wideband and narrowband systems in the Annex text by adding a column to each table containing the subjective descriptions associated with each QoS class.

We have now modified the Ver.15 Annex text in the latest FG CarCom draft “SubSystem Requirements for Automotive Speech Services” accordingly. Furthermore, since the improved objective noise distortion measure still was not included in the latest draft (Ver.15), we have also updated this in the modified Annex text.

Two documents are attached:

* “NoiseDistortion\_Annex\_VolkswagenTUBS\_V3.0.docx” is the modified Annex text for inclusion into the draft of the “SubSystem Requirements for Automotive Speech Services”. The modification is based on the latest draft (Ver.15).
* “ITG\_2012.pdf” is a paper accepted for publication in ITG|VDE Conference on Speech Communication to be held in Braunschweig, Germany, September 26-28, 2012. It describes the proposed noise distortion measures for *wideband* signals in more detail.

Attachments:

Modified:  New (wideband): 

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