



# Fraunhofer

IIS

FRAUNHOFER INSTITUTE FOR  
INTEGRATED CIRCUITS IIS

## INDIVIDUAL BROADCAST WITH DIALOGUE ENHANCEMENT





<http://s.fhg.de/DialogueEnhancement>

The Dialogue Enhancement technology enables TV viewers and radio listeners to change the audio composition to meet their personal preferences, listening environment and hearing abilities.

### **Customize the broadcast audio experience**

Finding the right balance between dialogue and ambient sound within a broadcast program is a major challenge for sound engineers and an increasing cause of audience complaints. Dialogue Enhancement from Fraunhofer IIS enables the audience to individually adjust the volume of dialogue, music or sound effects within a single broadcast audio stream for improved speech intelligibility or customized listening control. This is especially beneficial for hearing impaired audiences or non-native speakers. Dialogue Enhancement is standardized within the Digital Video Broadcasting Project (DVB) as Advanced Clean Audio Services of the audio-video-coding toolbox.

### **Compatible and efficient**

Dialogue Enhancement is backwards compatible with existing receiving devices that continue to play back the default mix. Additionally, this technology is bit rate efficient as only the main audio track and additional side information is transmitted.

[www.iis.fraunhofer.de/audio](http://www.iis.fraunhofer.de/audio)