Automated long-term tests

Development

of software for the analysis of audio signals

Customer requirement

The initial situation for the development of the software was that some errors can only be detected in the framework of automated long-terms tests.

Reproduction is usually the first necessary step to remove the error during further progress.

The precise requirement was that the control device should be developed to send an audio signal via the MOST bus after boot up. The software should test this performance in a long-term test.

comlet solution

To verify the existence of the audio signal, the OptoLyzer integrated in the MOST bus was connected to the sound card from the test PC. comlet connected the sound output of the OptoLyzer to the microphone input of the sound card.

The input level was lessened to filter out basic sounds and crackling noises.

Due to the use of the PC sound card there was no need for expensive measuring devices.

In order to guarantee maximum reuse in the existing test infrastructure, comlet implemented the test software as COM components. This makes integration into other test applications very simple.

technologies used:

C#, .NET, COM, Windows, X86

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