

Analysis and simulation tool



Development of a graphical user interface for support in TV tuner development

Customer requirement

A tool should be developed with an intuitive operable user interface.

This is employed to support the developer.

The control device to be developed is connected to the development workstation via a serial COM port. In addition to the request to provide a simple serial terminal (including time-stamp), further analysis and simulation functionalities should also be integrated.



comlet solution

With the execution of the serial terminal, the basic functionalities for a tracing tool were implemented. Furthermore sent and received messages were stamped with a high-resolution time-stamp.



As a consequence the chronology can be visualised and potential errors can be found.

By means of the implementation of a parser, the partly binary messages can be displayed in a legible form and can be allocated to certain contexts or components. This makes error analysis considerably easier.

The integrated simulation environment allows for simulation of the surroundings (further control devices) of the control device which will be developed/tested. It provides virtual communication partners (hardware-in-the-Loop - HiL) so complex test constructions are not necessary.

technologies used:

C#, .NET, COM, Windows, X86

