Personal Information

Name: Javier	
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Nationality: Spanish	

Studies

Title of degree	Study Period	Location
Telecommunications Engineering Bachelor	2002 - present	Escuela Superior de Ingenieros de Telecomunicación, Valladolid, Spain

Diploma Thesis

Company	Title	Abstract
Daimler AG	"Automatic testing of compression formats and their variations in a vehicle telematic Head Unit"	This Diploma Thesis' goal is to perform automated testing for an end-user Headunit, checking whether every possible compressed audio format and its parametrical variations is actually reproduced, and/or calculating the reproduction accuracy compared to the original audio source. To accomplish these goals, this Thesis is composed of two different phases: • 1. Design and development of a SW-Tool, which encodes and converts audio files from a known source into every possible compression format, and its variation. • 2. Design and development of a second SW-Tool, which processes the output signal from the Headunit, showing the accuracy level and finding error patterns.

Professional Experience

Company/ University	Location	Period	Description
Agosa Electricidad y Telecomunicaciones	Valladolid, Spain	September 2005 – June 2006	Technical helper in an electricity, illumination and telecommunications installer company. Design and on-site work on electric and optical circuit installation, structured wiring and technical solution support.
Technische Universität Dresden	Dresden, Germany	September 2008 – August 2009	Investigation work as a member of an international faculty research team about optical network migration, "Investigation of traffic grooming in optical backbone networks", currently in publication process.
Daimler AG	Sindelfingen, Germany	September 2009 – August 2010	• Planning, organizing and executing tests on the Headunit NTG2.5. • Assistance on failure analysis and costumer support in the context of supervision of NTG2.5's series production.

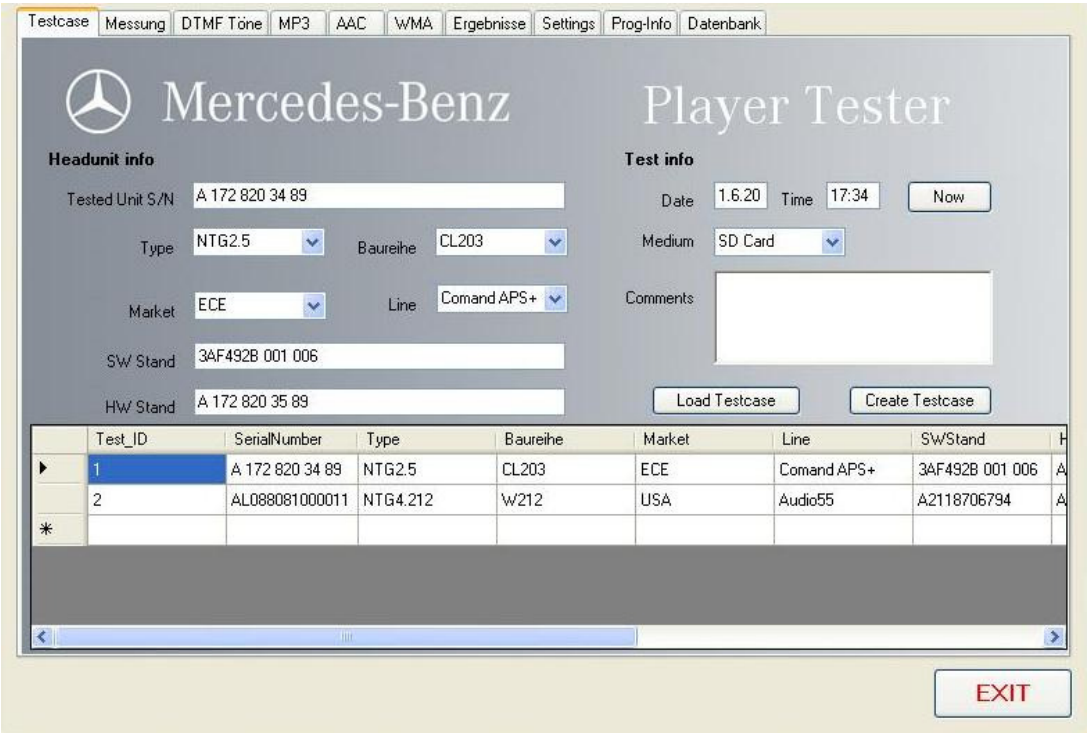
Languages

Language	Understanding	Speaking	Reading	Writing	Certificates
Spanish	Mother tongue	Mother tongue	Mother tongue	Mother tongue	
English	High	High	High	High	**Cambridge First Certificate of English ELS Masters Level**
French	Medium	Medium	Medium	Medium	**DELF 1er Degré**
German	Medium	Medium	Medium	Medium	

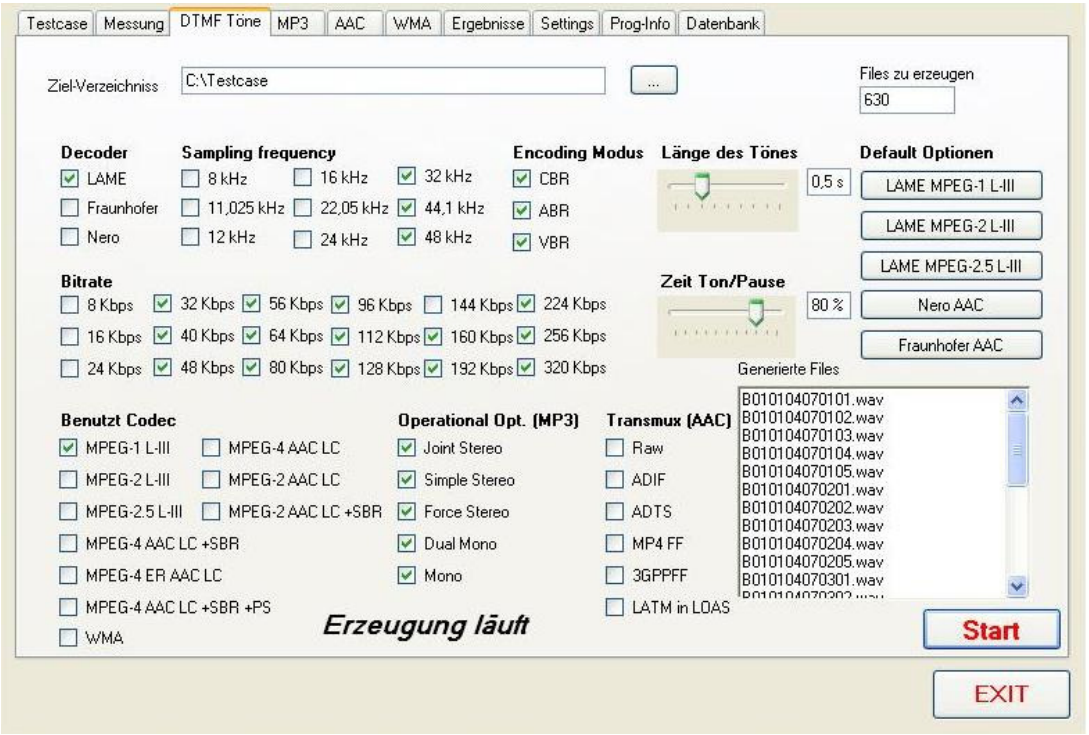
May 2010

Current project's short overview:
Part 1. Enconding and conversion:

A test scenario is created, with a full definition of the Headunit to be tested. Results from past tests are available for analysis.

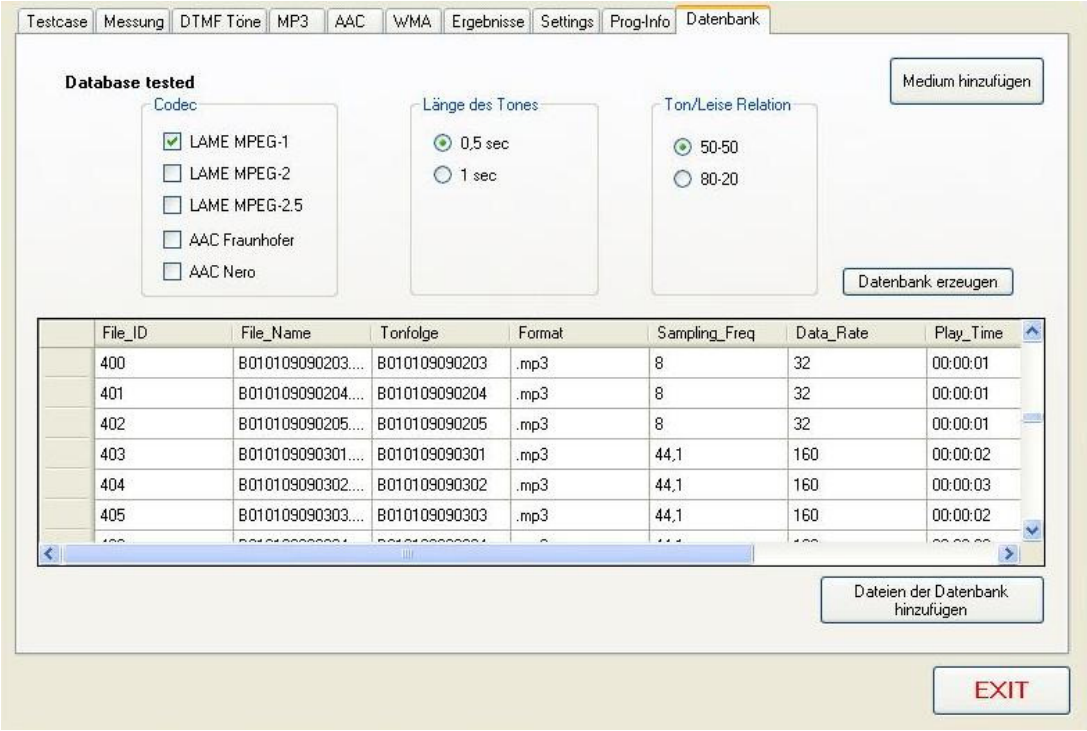


Depending on the test to be performed, different audio files are generated. All of them are properly encoded in order to allow their subsequent identification.

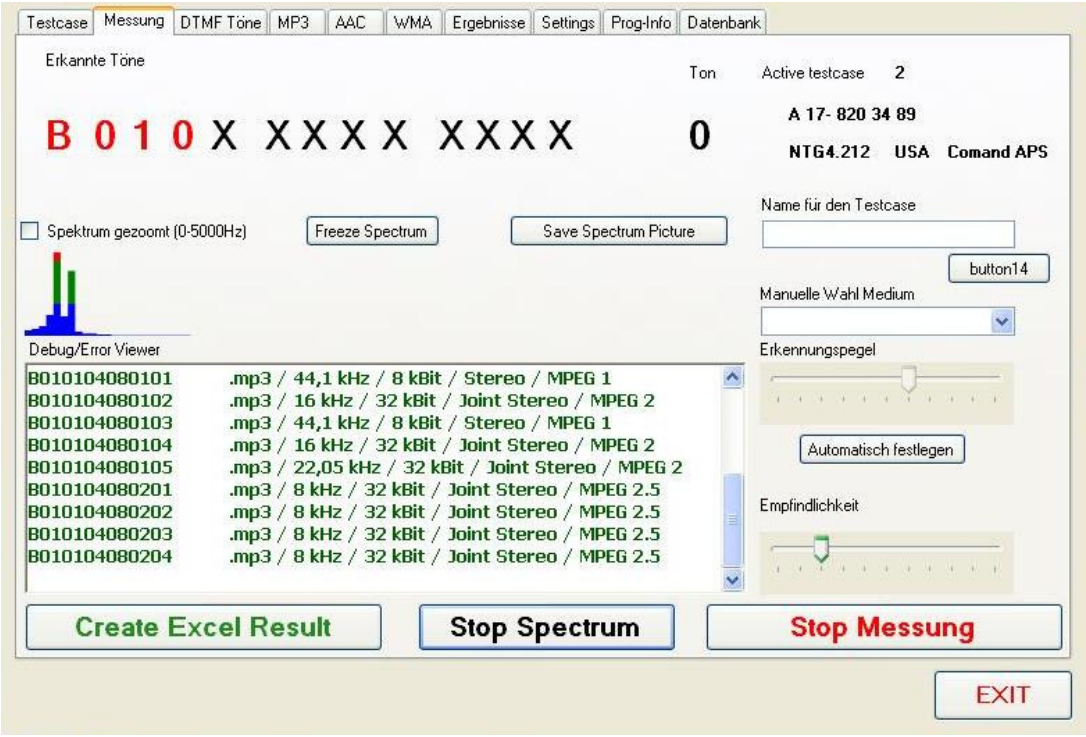


Part 2. Detection and analysis:

A database is selected, containing the data from the files involved in the test.



Incoming signals are detected and processed. Every detected signal is compared to the source audio file in order to obtain the Headunit's accuracy for determined audio format and parameters.



All the gathered info is used to warrant the headunit's format reproduce ability, as well as to help possible failure analysis.