Implementation of the Auditory Profile on OMA

Oldenburg Measurement Applications

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What is OMA?

OMA & HearCom

Auditory Profile Tests on OMA

CE-certified versions of OMA
What is OMA?

Software system for audiological assessment

Software development started in 1990

Audiometer development

1995: first version for Microsoft® Windows®
   - standard interfaces
   - standard soundcards

1998: first research version available
OMA today

More than 30 measurement modules

Multi-language support

Shared database, hardware, ‘look-and-feel’

Modular system

Highly flexible

- scripting interface
- plugin interface
- measurement tool classes
The OMA Platform

- Shell - Main Module
- Modules: Database, I/O, etc.
- Module Level Control
- Module Response
- Module Sound / freefield compensation
- Module Measurement
- OS - (Windows)
- I/O-Interface
- Soundcard
- Standard User Interface (Monitor/Keyboard/Mouse)
- Audiometer
- Answerbox/Touch Screen

Show choice
Receive answer
OMA & HearCom

OMA introduced by HörTech as preexisting know-how

Extension of multi-language support

Extension of demo version support

Evaluation and prototyping

Implementation of screening and diagnostic tests
Auditory Profile Tests

ACALAOS (DE, NL, UK, SE, …)

Meaningful sentence tests (DE, NL, UK, SE, PL, F)

Matrix sentence tests (DE, NL, UK, SE, F including I LD/BILD with virtual acoustics)

F-T-Test (all languages)

Lexical decision test (DE, NL, UK, SE)

Gothenburg profile (DE, NL, UK, SE)
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Auditory Profile Tests

HearCom portal professional section

- demo version of OMA platform (R&D)

- demo versions of all AP tests for OMA

available from HörTech in July
CE certified OMA

Available for Auritec AT900 and Auritec earbox

March 2009: available for Siemens Unity2

March 2009: available for Gravenstein
Interacoustics AC33

Cooperation agreement with GN Otometrics

Cooperation agreement with Maico
CE certified OMA

ACALOS

Oldenburg sentence test

Oldenburg children sentence test

Oldenburg children rhyme test

Göttingen sentence test

Freiburg speech test
OMA R&D Roadmap

support for more audiometers/headphones

implementation of models/predictions

implementation of online directional filtering (crosstalk cancellation)

multi-channel audio support
Roadmap CE OMA

- Implementation of Auditory Profile Tests