

AVL



AVL SMART MOBILE SOLUTIONS™ for calibration

THE CHALLENGE

The increasing amount of vehicle variants that need to be calibrated and the continuous development of diverse solutions has led to an increase of the calibration activities in the vehicle. These tests are typically very labor intensive, time consuming, unstructured and expensive. Specific maneuvers that need to be tested are often listed in excel or in a word document. While driving, the need of a co-driver is essential for guiding the driver through the maneuver steps. The lack of direct feedback and evaluation of each step can lead to numerous iteration loops. Calibration changes are typically applied when the vehicle is stopped in a safe location. Afterward measurement data must be copied and distributed to a project server manually. The optimal calibration changes cannot be easily found, tracked and traced since metadata is incomplete and there is no direct relation between each calibration change.

THE AVL SOLUTION

With AVL Smart Mobile Solutions™ we support the whole workflow and testing in the vehicle, making the overall task easier. Maneuvers and calibration changes are efficiently planned in the office. During the execution in the vehicle, the driver is guided through the maneuver's steps, and calibration changes are executed automatically based on the maneuver status. Measurement data and calibration changes are stored together with the right metadata and traceable calibration changes for further analysis and reuse. Once the tests are completed, reports for each specific maneuver test are generated immediately, and the data can be easily transferred to a selected server.

THE ADDED VALUE

- Tests, maneuvers and calibration sets easily prepared in the office – time saving, automatic execution
- Traceable calibrations and metadata – reuse of the measurement data
- Automatic data storage and easy transfer to the selected server – no data loss, no external storage
- Driver guidance, direct feedback, online monitoring

CLEAR PROCEDURE INDICATION

Maneuvers and calibration changes are efficiently planned in the office. Select which maneuvers you would like to drive from the maneuver library and define the evaluation criteria for each maneuver step. After preparing different calibration changes that should be executed during the test run and assigning the right metadata, you are ready to start!



AUTOMATIC REPORT GENERATION

Once the tests are completed, reports for each specific test are generated immediately. This enables easy error tracing and fast data analysis to help with finding the optimal results.



DRIVER GUIDANCE AND IMMEDIATE TEST EVALUATION

While driving, direct guidance how to drive the test is provided visually and with audio output. In addition, the online evaluation gives direct feedback informing whether the test is successful.



AUTOMATIC DATA STORAGE AND SERVER EXPORT

Measurement data and calibration changes are stored together with the right metadata. In that way, you can always track all executed changes. By transferring all data to a desired server, you can easily share your tests with your colleagues for further analysis and reuse.



AUTOMATIC PARAMETER CHANGE

During the test execution in the vehicle, while you are guided through the maneuver's steps, the calibration changes are executed automatically based on maneuver settings.



FIND OUT MORE:

AVL List GmbH, Hans-List-Platz 1, 8020 Graz, Austria
Phone: +43 316 787-0, fax: +43 316 787-400, email: info@avl.com, www.avl.com