

“BY THE USE OF THE AVL CRETA™ COMPONENT LIBRARY WE ARE ABLE TO REDUCE REDUNDANCY IN OUR CALIBRATION PROCESS AND ESTABLISH MANAGEMENT OF KNOW HOW IN OUR CALIBRATION DEPARTMENTS.”

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CHALLENGE

Loss of knowledge throughout calibration projects

In many calibration projects it is common that parameters are used over and over again. For example, the throttle's fine adjustment or the setting of the exhaust flap is needed in multiple calibration projects.

Those calibrations mainly remain the same throughout the different projects, but still are performed repeatedly in many cases. The reason for this can often be found in the lacking of a central means of data storage to collect and furthermore provide all previous calibration work. Obviously, this leads to the loss of knowledge and therefore to the same tasks being performed redundantly, resulting in an unnecessary increase in time, costs and effort for calibration work, especially with respect to the pre-calibration of new projects.

Unefficient calibration data management

Implementing adequate functionality to prevent the previously discussed problems does not only require a central data storage and management, but also the possibility of a meaningful comparison of data from current projects and data stored in the central database.

SOLUTION

Easy access to the components library

To address the problem of recurring label data, it is therefore useful to manage such recurring data in a kind of Components Library within the AVL CRETA™ database. Within the calibration projects the data can then be accessed, collected and provided by the library for reuse. The comparison of projects and data in the Components Library is realized by using attributes on projects as well as on the components.

Traceable comparison of calibration projects

By assigning attributes for projects and components and determining the consistency between new projects and existing components by using the implemented Component Delivery/Fetch functionality, existing data can be delivered to and reused in current projects.

RESULT

By implementing the AVL CRETA™ Components Library, data from existing projects can be collected, managed and reused in current projects, especially during the start-up and pre calibration phase of projects.

This leads to savings in time and effort as well as in costs and resource. An additional advantage of the AVL CRETA™ Components Library is not only the gathering of calibration knowledge, but also the improved way of knowledge transfer, sharing and exchange. This will also be a great benefit in training and adjustment of people to a new job.

OUTLOOK

The rising complexity in variants and applications of the engines leads to a higher calibration effort. The increased usage of the Components Library of AVL CRETA™ reduces the effort of calibration work and minimizes the required resources.

The idea of LMB is to further increase the usage of the Component Library to help the users to handle already calibrated functions in the best possible and user friendly way. Depending on the degree of standardization of functions in an ECU, the use of the Component Library will be increased accordingly.



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