

# AVL



## AVL CONCERTO 5™

APPLICATION DEVELOPMENT  
TOOLBOX

Experience the harmony

Toolbox for efficient and flexible application development

### THE CHALLENGE

Development of new powertrain concepts, vehicles with better fuel efficiency, e-mobility and enhanced driver support systems, require an increase in data processing and analysis. The standardization of classical processes and the focus on new challenges are of ever-growing importance with regards to the development and release of new vehicle types to the market.

### THE AVL SOLUTION

For efficient data processing, visualization and reporting AVL has developed the AVL CONCERTO 5™ platform. For the standardization of data processing AVL CONCERTO 5™ can carry multiple apps which focus on a specific development task, containing engineering know-how and algorithms. These apps can be either purchased off the shelf or developed individually with the help of the AVL CONCERTO 5™ - Application Development Toolbox.

With this advanced Toolbox one can create valuable applications with a high degree of automation and user interaction, where required. Based on the powerful script and graphical formula editing, complex problems can be easily broken down and transformed into useable GUIs and workflows. Algorithms that are already available as third-party libraries can be integrated in the scripting environment for the highest possible level of reuse and development efficiency.

### THE ADDED VALUE

- Management and sharing of AVL CONCERTO 5™ work environments
- Powerful scripting editor for automation of processing tasks and user interfaces
- Graphical formula creation for complex formula systems
- Design objects for setting up advanced applications
- Integration of third-party libraries

## SOLUTION OVERVIEW



### Standardization

Based on layouts and work environments, containing all necessary formulas, macros and scripts, a high standardization level of evaluation and reporting tasks can be reached.



### Toolboxes and Apps

Create, manage, package and deploy Toolboxes, formula libraries and apps based on AVL CONCERTO 5™ work environments.



### Automation

Use of the integrated AVL CONCERTO 5™ scripting capabilities enables the creation of interactive and automated layouts and reports.



### Reuse and Secure IP

The integration of third-party libraries allows the reuse of existing algorithms and securing of generated IP.

## APPLICATION FEATURES AND FUNCTIONS

The AVL CONCERTO 5™ - Application Development Toolbox contains elements to create, manage and share comprehensive apps. It extends the object library with objects that enable user interactions, like buttons and checkboxes, and script-based events of standard graphical objects, such as cursor event scripts. For the creation and distribution of apps they can be enhanced with information and images and packaged as AVL CONCERTO 5™ work files.



AVL CONCERTO 5™ - Formula/Script Editor

AVL CONCERTO 5™ - CalcGraf

With the Formula/Script Editor in AVL CONCERTO 5™ complex formulas can be created and shared. For the highest possible level of reuse and efficiency, central libraries can be created and managed, containing macros, formulas and scripts with common functionalities. Through the capabilities of fast library searching, these macros are always at hand when needed. By scripting, all graphical objects can be created and automated, enabling the generation of interactive evaluations and reports.

For the creation of graphical formulas, AVL CONCERTO 5™ - Application Development Toolbox includes CalcGraf. With CalcGraf complex formulas can be created easily based on an extendable function library. With the AVL CONCERTO 5™ macros the functional scope can be easily extended and integrated in your own calculations. Model compilation gives a high calculation performance and guarantees that CalcGraf models can be executed with a AVL CONCERTO 5™ license.

### FOR FURTHER INFORMATION PLEASE CONTACT:

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