CONCERTO combines the flexible approach of being generic with the ability to implement application specific know-how accessible directly at the user interface. Its open interfaces and integrated comparison mechanisms offer a central data correlation tool for automation, simulation and measurement systems.

- CONCERTO is a generic data post-processing tool that focuses on quick and intuitive signal analysis, validation, correlation and reporting - for any kind of acquired data.
- CONCERTO is specially developed as a tool to meet the demands for data evaluation of the automotive industry.
- CONCERTO supports a wide range of standard data formats.
- CONCERTO provides a maximum degree of compatibility and flexibility thanks to open interfaces.
- CONCERTO simplifies global data comparison by supporting common standards and with automatic conversion methods.
- CONCERTO is a robust software tool for reliable, efficient data processing.
- CONCERTO provides optimum application backup thanks to worldwide program and application support and will be continuously further developed by means of periodic release cycles.
AVL CONCERTO™

AVL APPROACH

Product development processes must be continuously optimized in respect of quality and duration. The most efficient possible management of the constantly growing amount of data that arise and furthermore must be processed during these processes brings decisive competitive advantages.

With CONCERTO, AVL has combined the know-how acquired jointly with customers throughout the automotive industry. The software tool for highly efficient management, processing and reporting of data is impressive in many respects:

CONSISTENCY
CONCERTO is conceived for applications throughout the whole development process, and so it can be applied for the post-processing of diverse data from all sectors.

FLEXIBILITY
CONCERTO offers solutions for simple and complex analyses in equal measure – standard evaluations are automated and thus easier to compare and reproduce. At the same time CONCERTO is ideal for the implementation of customer-specific calculation methods.

EFFICIENCY
Due to its clear workflow oriented user interface, CONCERTO offers fast and easy access to all typical post-processing tasks. Optimized usability based on our customers experience leads to minimized training and startup efforts and therefore the highest possible at daily work.
Support of multiple standard data formats and sources:
- ASAM standards (ATF, MDF, etc.), ASCII and binary data, indicating data (e.g. AVL IFile), testbed data
- Commonly available data formats already implemented (e.g. MATLAB, FAMOS, INCA, etc.)
- Unlimited optional extension to customer-specific data formats
- Data from local or network drives as well as from databases (e.g. ASAM ODS, ODBC, etc.)
- Generically used data formats (e.g. XLS, CSV, etc.)

DATA PRE-PROCESSING, CALCULATION
CONCERTO offers several integrated tools for the definition of calculation algorithms and for efficient data processing. Vector-oriented processing ensures optimum performance.
- CONCERTO – Calculator (fast and easy formula compilation tool for standard mathematical functions)
- CalcGraf graphical formula editor (Extensive library with pre-defined application-oriented function modules)
- Formula/Script Editor is a compiler (comfortable programming environment for performing expert tasks, complex calculations, fully automated evaluations, complete applications, etc.)

DATA MANAGEMENT
DataExplorer as tool for navigation, selection and preview of data offers an optimized logical structuring of data, independent of different formats and storage locations as well as fast and easy data mining by means of previews, search and filter functions.

TECHNICAL DATA

 USER INTERFACE
- Workflow oriented user interface, optimized for data post-processing tasks
- Total flexibility in display and visualization tasks, full drag & drop functionality
- Adaptable user interface and support of various user levels.

 OPTIMIZED OPERATING WORKFLOW
- Automatic correlation of various types of measurement records such as log-point data, time-base data and cycle-based data as well as handling of various record lengths and resolutions
- Intelligent and easy-to-use data comparison logic for multiple series of measurements
- Common processing of measured, simulated and calculated data.

 DATA PRESENTATION, VISUALIZATION AND EXPORT
The display of measured data as well as their analysis, processing and the subsequent presentation of the resultant data takes place via a common user interface. CONCERTO enables:
- Complete compilation of informative graphs for detailed evaluation as well as documentation purposes
- Simultaneous display of measurement and calculation data of as many tests as required
- Multiple graphs and protocols, also within one display window with freely definable templates
- Wide range of display and presentation objects (incl. special diagrams, legends, statistic objects, text objects, graphs, tables, etc.), optimized for screen and paper presentations
- Integration of COM controls (such as Media Player object) and freely-definable dialog windows
- Combined displays of log-point, time-, cycle or crank angle based data
- Data and graphic export as ASCII and enhanced metafile as well as HTML export and other formats
- Interactive graphic processing (zooming, relocating, copying, editing, cursor functions, etc.) and much more...
PRODUCT FUNCTIONS

AVL CONCERTO™ is the tool for data post-processing for the complete automotive industry, from vehicle manufacturer to component developer.

Its range of applications extends from power unit developers and automobiles to non-road vehicles and Formula One. The basic functionalities can be extended by application-oriented modules in order to ideally meet the requirements of the respective application field:

- Evaluation of testbed data
- Combustion analysis/indicating data
- Exhaust gas analysis
- Evaluation of vehicle measurement data
- And much more ...

Due to its open interfaces, CONCERTO is the ideal central tool to correlate data coming from automation, simulation and measurement systems. Because of the modular configuration as well as periodic extensions, triggered by new requirements, CONCERTO is an investment for the future.

In practice, CONCERTO can be used either at workplaces for data acquisition and data analysis as well as those in the office for presentation, reporting or documentation.

YOUR BENEFITS

During the research phase: CONCERTO demonstrates impressive possibilities for fast and easy adaptability and flexibility.

During the development phase: CONCERTO offers special capabilities for comprehensive data comparison, thus minimizing time commitment.

At duration tests: CONCERTO provides precise analyses of the essential data from extended duration tests “at the touch of a key”, thus ensuring reliability.

In pre-series and in production: statistical analyses are carried out easily and intuitively with AVL CONCERTO™.

CONCERTO offers optimum data reliability thanks to an ISO-compliant data management system, from acquisition to archiving. Minimization of risks and error possibilities boosts the efficiency and ultimately leads to time and cost savings.

The easiest and fastest way to turn your data into meaningful information.