

# imc SEARCH

selective searching • intelligent sorting • fast analyzing



Central measurement data management and organization

### **imc SEARCH at a glance**

- Central storage and management of measurement and test data - including metadata
- Quick viewing and searching through large volumes of heterogeneous data sets
- Ideal for test stands, spatially distributed data sources and multiple user environments
- Linking of descriptive test information (e.g., images and documents)
- Seamlessly integrate search results and measurement data analyses with the imc FAMOS signal analysis software
- Flexible database structure
- Customizable filter and search routines for quick access to information
- Supports popular database management systems such as Oracle, MS SQL, MySQL
- Client/server architecture, but also local (mobile) operation
- Traceability of measurements
- imc offers professional consulting and customer-specific modifications



**Find  
Test Data**



# Easily find measurement data

## imc SEARCH - the database application for test & measurement specialists

When running a series of tests, the measurement data can quickly pile up to unmanageable amounts - a virtual haystack, so to speak. However, if specific information is needed from the extensive collection of data, an intelligent measurement database solution pays off. After all, who has time to look for the "needle in a haystack"? imc SEARCH provides the solution at the push of a button.

The imc SEARCH database application is specifically designed for the needs of test & measurement technicians. imc SEARCH allows for a wide variety of information that is important for test & measurement to be stored, searched, filtered, sorted and subsequently evaluated using the imc FAMOS analysis software. A sophisticated storage technology provides fast access times for large data sets.

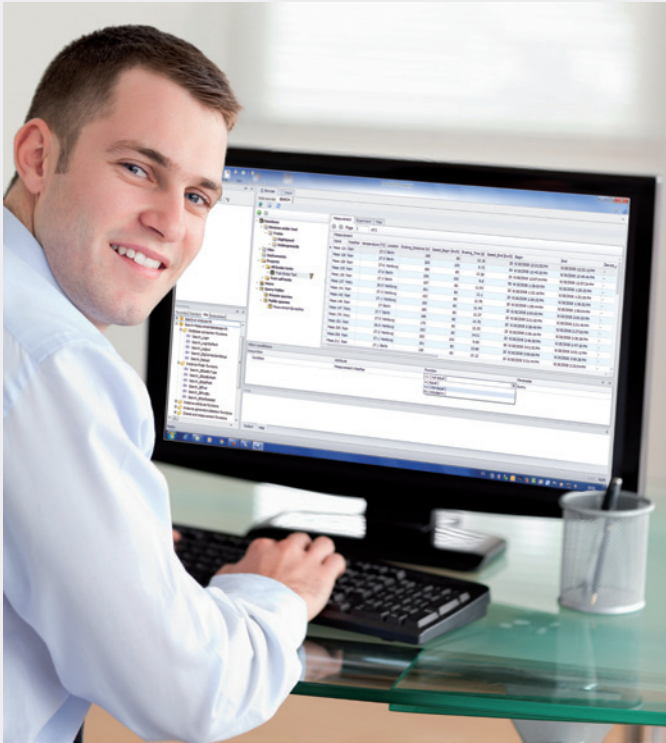
With the use of the imc STUDIO software platform, measurement data from networked test stands and test setups can be easily transferred into the measurement database. In addition, a .NET interface supports the import of data from any source into the database. Thus, without being hardware dependent, imc SEARCH works around a unified central storage solution and avoids isolated applications. In the case

of mobile usage, imc SEARCH Mobile is available: it operates locally while allowing for regular synchronization with the central database in the office.

The imc SEARCH data model can be individually configured by the user for the storing and archiving of data that is best suited for the requirements. A comfortable administration interface allows logical and hierarchical relationships to be converted into a user-oriented data structure. The model consists not only of individual elements, but also incorporates their relations amongst one another. Thus, for example, given a motor test stand, all of the attributes of the motor, ambient conditions, operating personnel, ECU software versions, as well as descriptions and measurement results can all be linked together.

With search filters, the user can easily find the desired information without detours. With imc FAMOS sequences and the extensive imc SEARCH kit, automated evaluations can be created that have access to the entire database. Furthermore, the evaluation of large amounts of data can even be executed directly within the imc SEARCH server, thus avoiding extensive transfer of the raw, mass data to the client.





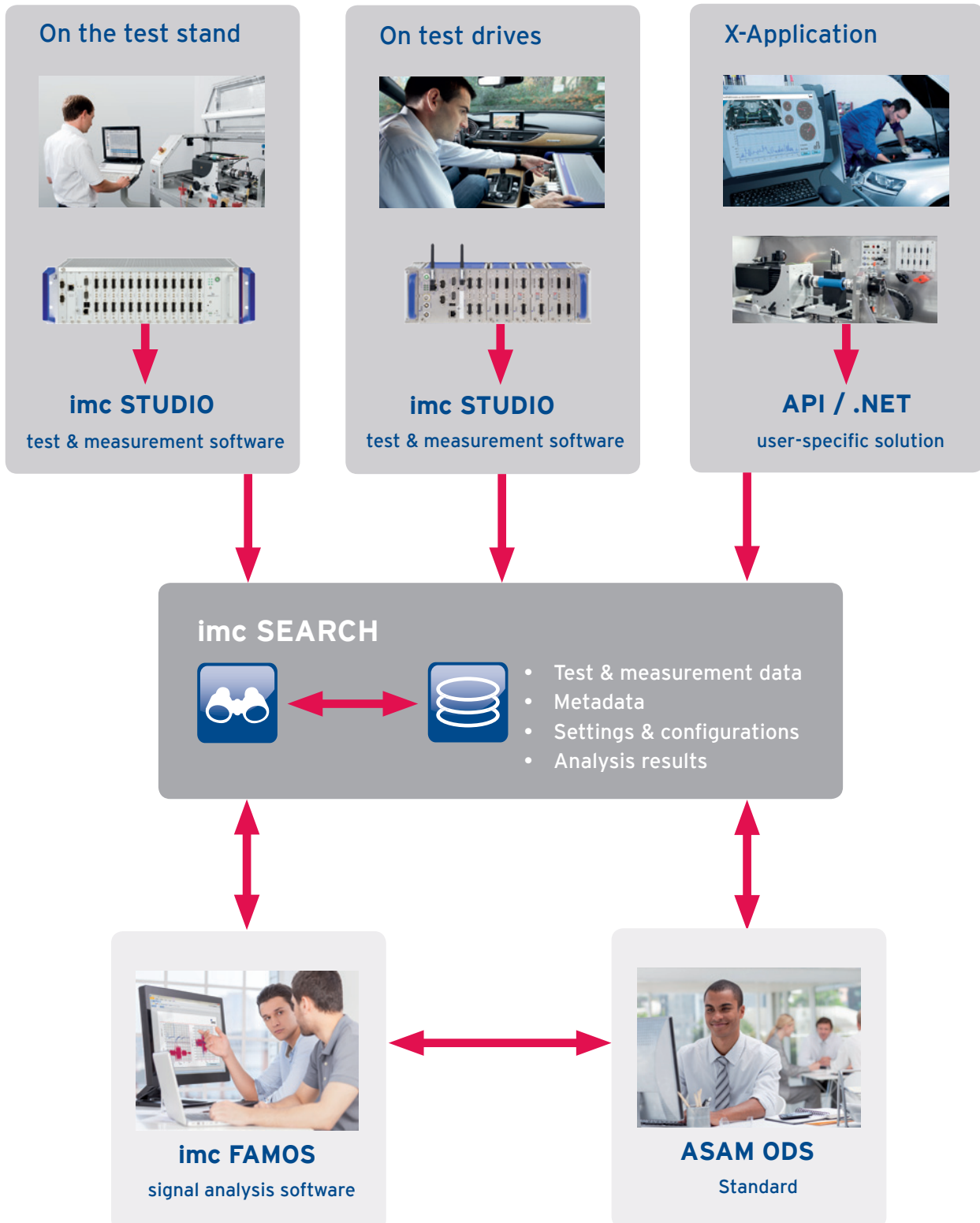
"The imc SEARCH data model is user-specific configurable for achieving the best suited storage and archiving."



"With the help of the search filters, one can quickly and precisely find the required data and information out of thousands of data entries."

# Speed up development processes

... with imc SEARCH test data management



## In Practice

### Clear view when component testing

Whether in freezing temperatures or direct sunshine - windshield wipers are expected to provide a clear view in almost any environment. Therefore, these components must be optimally designed. In addition to functionality, economics also plays a role. In the developmental test arena, motors, wiper blade designs and wiper arms must all be tested in various combinations and environments. imc SEARCH ensures that the most efficient arrangement can be quickly identified from the test & measurement data.



### Speeding up brake data

When it comes to testing braking distances on the test track, extensive amounts of data can quickly accumulate. In order to deal with all this data and to ensure that the engineer teams aren't slowed down during the evaluation process, they put imc SEARCH to work. Attributes, such as test driver, ambient temperature, brake disc, brake caliper or brake pad that is being used can easily be filtered and incorporated into later analyses. Especially when different test tracks and teams are locally testing, centralized data management is essential for productive processing.



### Data management for small business owners

The success of small business owners is closely related to their ability to innovate. Prerequisites for success are to invest in research and development. Beginning with high-quality measurement and analysis data, crucial knowledge is gained in a very short time. It becomes more and more difficult for these businesses to make sense of their data when it is in a variety of formats, used in different applications and stored at different locations. imc SEARCH is an economically attractive solution that allows users to manage data storage, make specific searches and perform comprehensive analyses.





# Choose an edition best suited for you

imc SEARCH is offered in different editions that suit a variety of different requirements.

## **imc SEARCH Mobile**

- Single user works with imc SEARCH (stand-alone installation )
- Complete installation on a single computer. Access to the data only from this computer
- Complete data storage on this computer

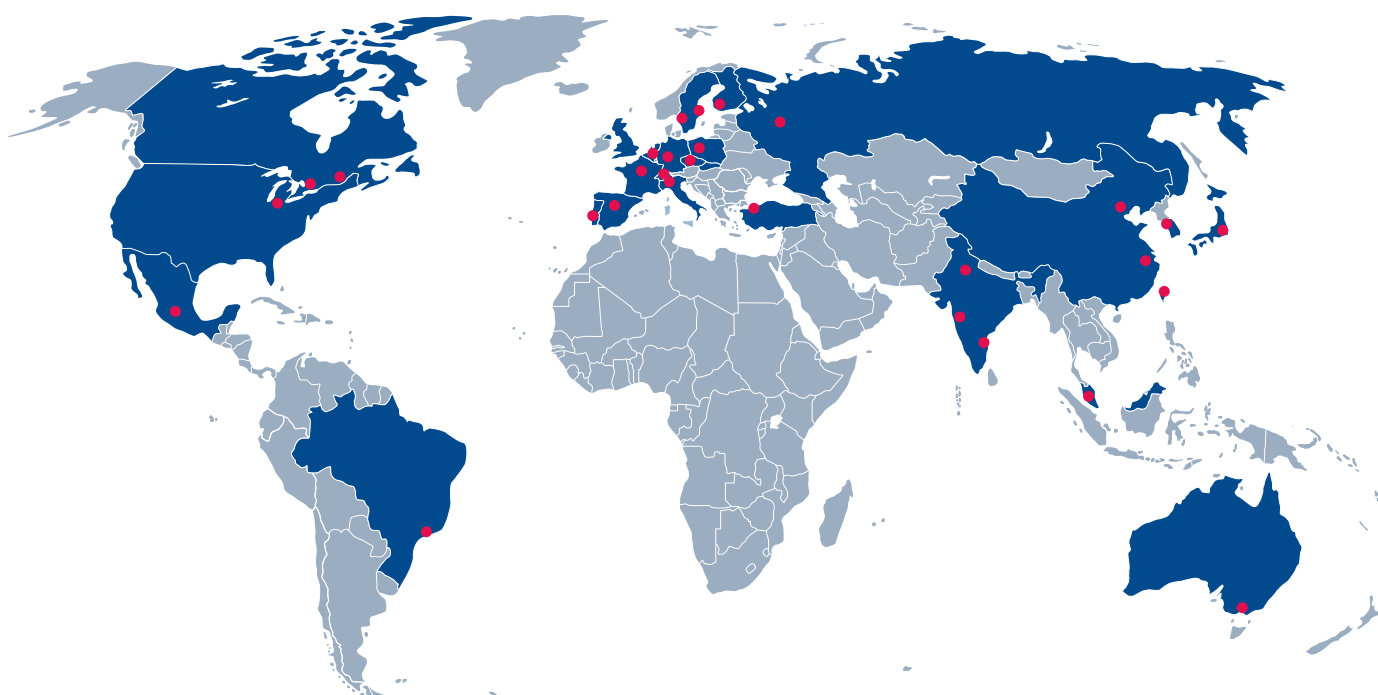
## **imc SEARCH Server and imc SEARCH Client:**

- Server or client in a client/server arrangement
- Multiple users or computers work with imc SEARCH
- SEARCH Server and underlying DBMS (SQL ...), as well as file server, supported on both single or distributed computers
- Communication between client/server
  - > fast within the company LAN (.NET Remoting)
  - > secure with SSL/HTTPS over the internet and across firewall boundaries



## Benefit from our international partner network

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