

## Essentials

Collaborative, flexible, highly efficient:  
the platform Engineering Base



Engineering Base



## Challenges

Globalised engineering structures with networked operations from widely dispersed locations represent the biggest challenge facing industry today. They rank even higher than the growing pressures of time and money, or the hunt for qualified technical staff. Until now, no engineering system has satisfied these new demands, since file-based and document-based tools have long been incapable of meeting the challenge.

The capability to internationalise production-related engineering tasks or facilitate localised developments of a given model is no longer adequate. Nowadays, the highly-demanding developments that are created simultaneously at various locations around the world need to be coordinated in terms of **Engineering Base (EB) supports the entire lifecycle** of machines,

content, language and technology for the different trades involved in a project. What is needed is an especially accessible authoring tool that enables you to take a universal approach to an engineering task. Otherwise, different engineering cultures will repeatedly cause a significant amount of extra work in terms of communication and data comparison.

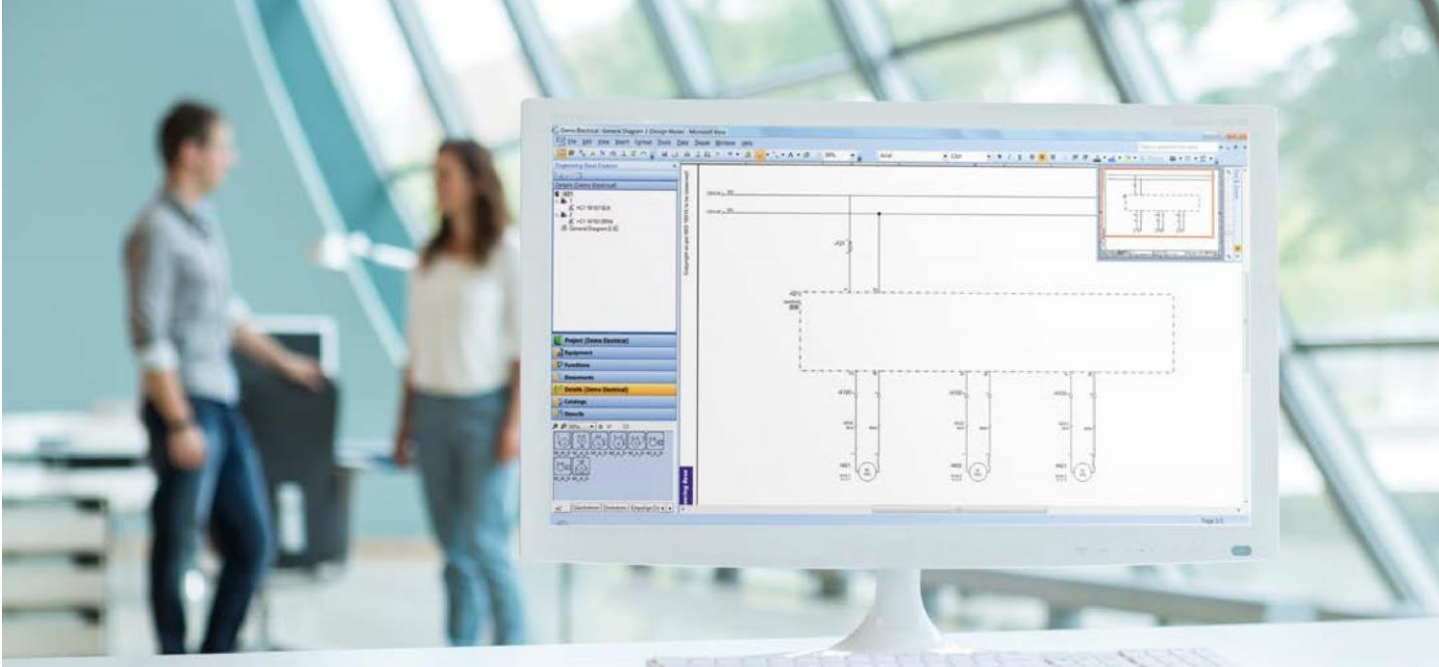
In each case, data quality and the resulting expenditure of time are decisive for efficiency and financial return – for the manufacturer as well as for engineering service providers and operators. Whether we're talking about power plants or cars, chemical plants or trains, packaging machines or satellites, is irrelevant. There's an art to it; you don't want to buy time by making more work, but nor do you want to sacrifice quality to financial returns.



## Collaborative, consistent, fast

plants and mobile systems – in a trans-disciplinary, collaborative and database-driven way. The common interdisciplinary mode of working on the data model for the virtual product replaces the document-oriented paradigm. Modern software architecture forms a reliable foundation with its unlimited networking capability and unmatched multi-user support. The integrated Microsoft components enable simple, intuitive operation, and the open data model adapts rapidly to special requirements. This makes EB productive more quickly than any other data-centric system!

**From major clients to one-man engineering offices**, the software is in use today in process engineering, mechanical engineering, wiring harness design, and energy generation and distribution. Reputable global players have long since selected Engineering Base for their successful path to the future.



## Absolutely accessible, fundamentally flexible

From the initial idea for a platform covering a broad range of industries, AUCOTEC's developers were conscious of the absolute necessity for accessibility and flexibility: for integration and connectivity in all forms, for every company IT environment, for parallel and cooperative working processes, for the global engineering culture and for every imaginable scaling. In short, for the agile processes of the future!

Uncompromising security is a given, because data created by our clients is the cornerstone of their success. Modular structures and standard components guarantee EB is

futureproof, allowing users to concentrate on their core expertise.

### Ultra-modern system architecture

EB's multi-layered architecture allows for the simultaneous handling of the same project by multiple users at multiple locations. Central data management is another feature: even highly complex tasks can thus be tackled in the shortest of times. And the development power that lies behind the integrated standard components gives EB an innovative capacity that is unique in the field of engineering systems.

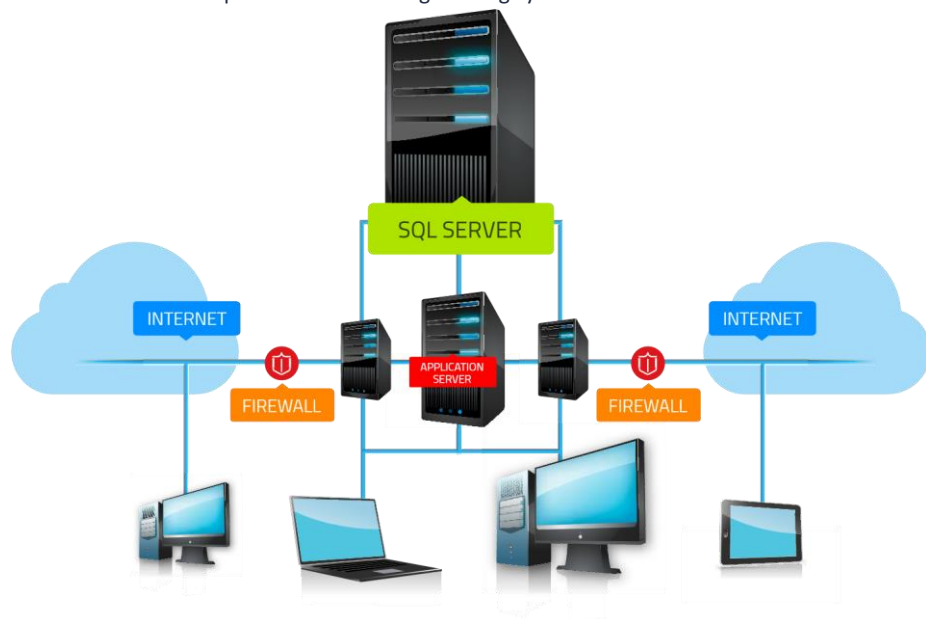
## Scalability

Engineering Base stands for maximum scalability – from mobile notebooks or single-user workstations through to SME solutions, and right up to server farms with hundreds of globally-networked users. Engineering Base offers optimised support for all current server platforms, plus Citrix and terminal server solutions.



## Microsoft components

The Microsoft **SQL Server** ranks as one of the world's most reliable database systems.







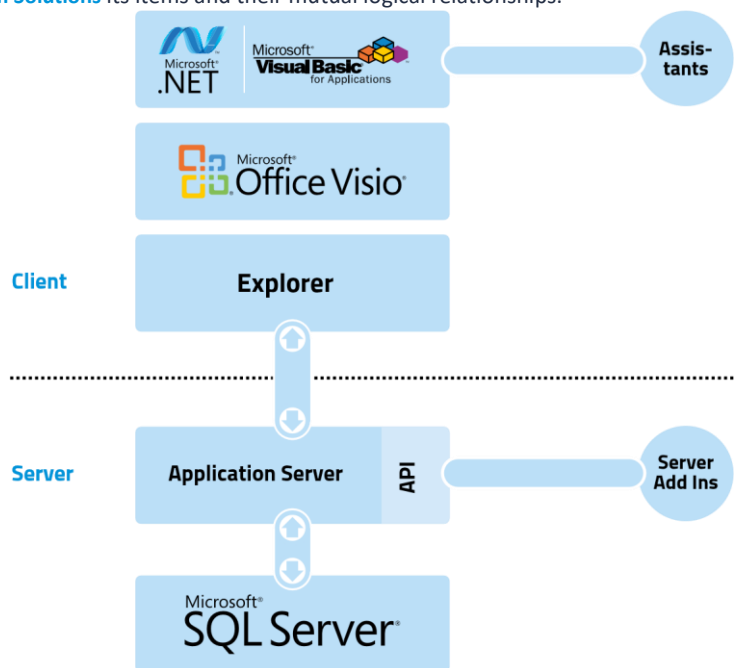
Common management of all engineering data, secure transactions, perfect Windows integration and simple administration.

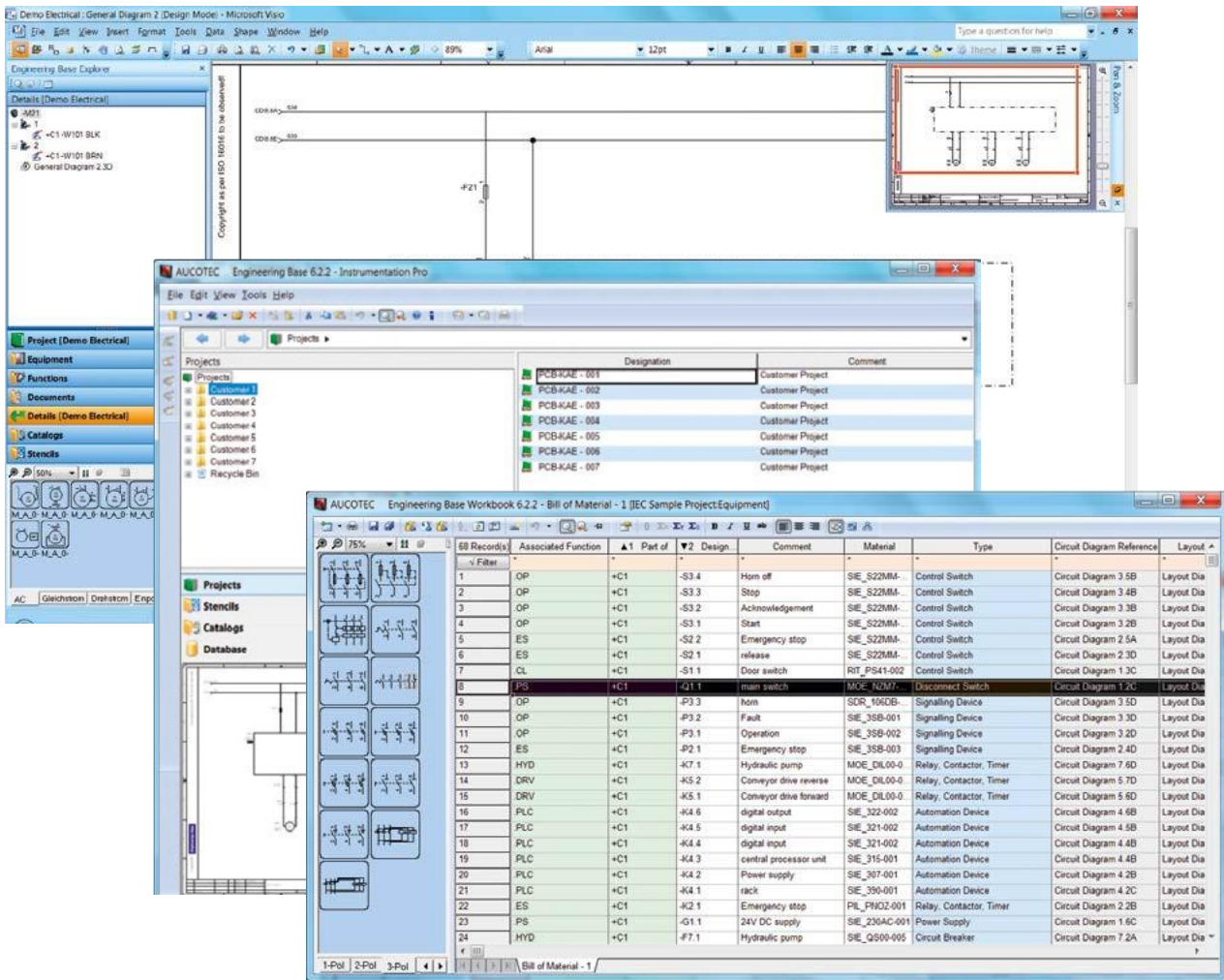
The **Application Server** manages business logic with **Platform Solutions** its items and their mutual logical relationships.

The **Engineering Base Explorer** presents data with a familiar look and feel in the structure trees, worksheets and dialogues.

For 2D schematics, the proven world-standard Microsoft Visio is employed. A key feature is full compatibility with Microsoft Office.

The entire development environment for Visual Basic for Applications (**VBA**) is already integrated for simple workflow automation. They can be seamlessly integrated into EB's database and menus, as can **.Net** solutions.





## Three views and more: flexible, universal, simple

Engineering Base offers three convenient ways to edit: using Explorer, diagrams and worksheets. It focuses on remaining flexible and universally applicable, yet simultaneously easy to learn. Thanks to the familiar Office environment, it couldn't be simpler to use. For special tasks, sector-specific wizards provide further optimised views.

### Diagrams or tables: it's your choice

Every object is centrally managed in EB. However, it can be edited in all views in the schematic display, as well as in tables or Explorer. Each user is hence free to choose the approach that is most appropriate for the current phase of work. EB matches itself to the user's needs and methods.

### Project Management: more intelligent

Thanks to its database, EB can integrate and manage the entire technical content of a project, but also data from linked authoring systems (e.g. 3D CAD and control software codes or parameters etc.). Thus, it operates significantly more intelligently than traditional EDM systems for example, which, with a lower level of detail, merely manage data containers or PDF files.

### Multi-project: instant access

Every EB database is able to hold as many projects as necessary, with solutions easily reused by means of a simple Drag & Drop. This makes instant access across project boundaries possible.

### Change management: always up to date

It is the architecture of Engineering Base that enables the change management to deliver information which is uniquely secure and up to date. The data model guarantees that it is always presented instantly and consistently. Because of the data-centric mode of operation, changes are even recognised in cases where they are not at all visible in the diagrams. In reliable communication with suppliers and clients as well as in revision and versioning of data, this change management is an invaluable advantage.



#### **Worldwide Support**

Because there are no limits to the application of our products, all AUCOTECH is represented all over the world. Many of our customers are firms operating on a global scale.

Our global network is at your service around the clock, and in languages - right from the word go.

**Seize the opportunity and seize the lead – worldwide!**



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