

## **Programming interface**

### **No Limits!**

*Unrestricted access to databases records and elements*

### **Multi-lingual**

*Access CONZEPT 16 databases in a variety of languages*

### **You do the programming**

*We take care of the database*

### **Enhance applications**

*Combine your application with a powerful database*

### **Get in touch**

*Automatic exchange of data with a database*

### **Take what you need**

*Cut the time spent on program development by using CONZEPT 16 procedures*



## The CONZEPT 16 programming interface

The CONZEPT 16 programming interface gives Windows-developers the means to access one or several CONZEPT 16-databases from within their applications.

The programming interface is a product of its own, available as a Dynamic Link Library (DLL) for Windows. It has been designed to work in client-server mode in combination with a CONZEPT 16 database server. To connect to the CONZEPT 16 database-server TCP/IP used as protocol.

The interface is embedded via include-file, in which all available types, constants and functions are defined. A corresponding import-library is included when linking a foreign program, providing access to the DLL's functions. The CONZEPT 16 programming interface can be addressed by any given number of foreign programs at the same time.

### Mode of operation

To access a database, a foreign program will first initialize the DLL. Then, a so-called instance is generated, which is used to open a database. As a program may create several instances, it is possible to access different databases simultaneously. All operations within a database are performed by the CONZEPT 16 database server. The programming interface establishes the connection to the server, sends requests and gathers responses. A database can be accessed by foreign programs via CONZEPT 16 programming interface and CONZEPT 16 clients at the same time.

### Data structure

To give an application flexibility, the programming interface provides functions to access a database's data structure. These functions supply information on all

elements of the database structure (tables, fields, indices, index fields and links) during runtime. Elements can be addressed by name as well as by number.

### Accessing data

All operations required to process the records in a database match the corresponding procedural functions and allow you to read, modify, insert or delete records and text files and to employ indices and links when accessing data. It is also possible to automatically establish connections between records and a foreign program's own variables and convert all field types bidirectionally. This allows you, for example, to convert all field types into ASCII-format and vice versa.

### Procedures

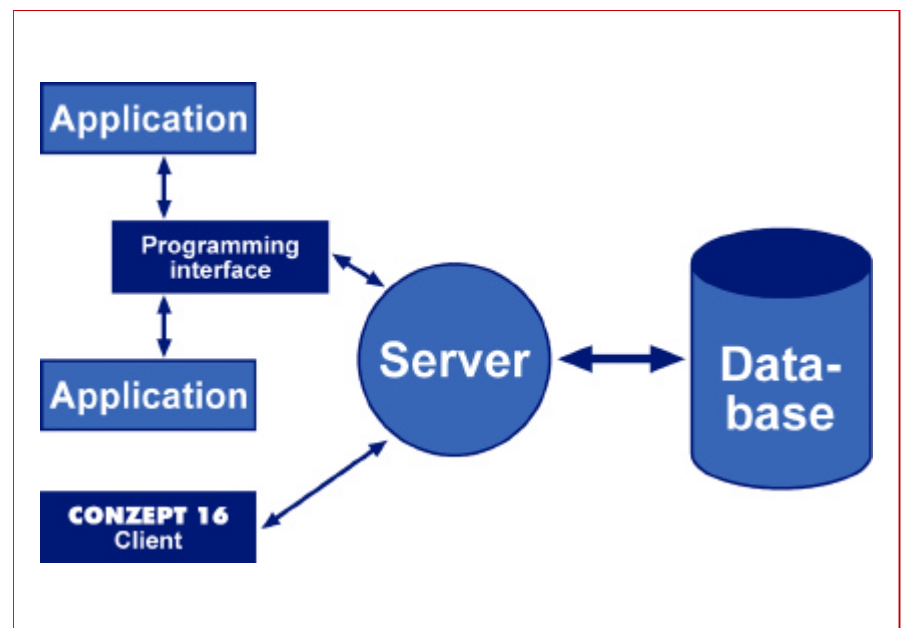
The possibility to use a database's internal procedures makes it a lot easier to

develop foreign programs. On the one hand, existing functions can be employed, on the other hand, the use of procedures results in a significant reduction of programming efforts, since less functions must be written in the foreign programming language. All procedures can be evaluated with the help of a source-level debugger. The debugger is not part of the programming interface and can be run on a computer different from the one on which the application is running. During runtime, values and variables can be modified and surveyed anytime.

### Compiler

The CONZEPT 16 programming interface has been tested with the following compilers:

- Borland C++
- Delphi
- Microsoft Visual C++
- Watcom C/C++



*The CONZEPT 16 programming interface, available as Dynamic Link Library (DLL), allows applications to access one or several databases in client-server mode via CONZEPT 16 database server. The programming interface can be employed by a given number of programs simultaneously.*

**vectorsoft® AG**

Seligenstaedter Grund 2  
63150 Heusenstamm  
Germany

Phone +49 6104 660-100  
Fax +49 6104 660-190  
E-Mail orga@vectorsoft.de  
<http://www.vectorsoft.de>

Loerenstrasse 15  
4658 Daeniken  
Switzerland

Phone +41 62 28810-22  
Fax +41 62 28810-23  
E-Mail orga@vectorsoft.ch  
<http://www.vectorsoft.ch>

