

ZIM Integrated Development Environment



All in One Entity-Relationship Platform. Develop Once, Deploy Everywhere.

Zim Integrated Development Environment (IDE) is a powerful industry-proven database and development language for both Windows® and UNIX environments. For over 15 years, customers have taken advantage of this robust environment to create customized data-centric applications, integral to their core business needs. For examples of Zim system implementations, visit www.zim.biz/customers/dataenabled.html

Easily connected to third party client software and data sources, Zim lets you get the most from your data and business processes by facilitating the process of storing, retrieving and manipulating data - ultimately enhancing your productivity and decision-making abilities. Additionally, Zim's robust performance can help reduce system costs for development, implementation and maintenance.

Key Benefits

- Industry proven for mission critical applications
- Easy to learn with reliable performance
- An efficient and cost effective solution for powerful data applications
- Reduces system maintenance requirements;
- Enables rapid development with robust architecture
- Quick to develop, quick to market
- Easily connected to third party client software and data sources
- Highly scalable
- Enables application interaction with Internet and mobile technologies such as SMS text messaging

Key Features

- Based on the Entity-Relationship Model
- SQL compatible
- Supports heterogeneous environments (Windows/UNIX)
- Easy to program fourth generation language (4GL) which allows set processing, 'test on the fly' in *interpreted* mode, and rapid processing in *compiled* mode
- RAD (Rapid Application Development) tool
- Sophisticated programming, networking and integration capabilities
- Small footprint

Develop Once, Deploy Everywhere

Zim is an efficient and cost effective tool for creating, deploying and maintaining powerful data applications. Based on an Entity-Relationship (E-R) Model, Zim is SQL compatible and its "English-like" fourth generation programming language speeds the development timeline. Zim IDE offers a rapid learning curve for programmers and reliable performance give users a powerful application development and deployment tool.

Zim is a Rapid Application Development (RAD) tool that enables efficient development of solid system architectures. Zim's easy to program 4G language with set processing, 'test on the fly' capabilities in *interpreted* mode, and rapid processing in *compiled* mode makes it ideal for rapidly designing, implementing, testing, documenting, and maintaining complex mission-critical applications.

With sophisticated programming, networking and integration capabilities, Zim IDE is also highly scalable and ideal for systems that are designed to grow. With Zim, you can easily extend your applications to the Internet or to mobile channels such as SMS text messaging.

Zim can easily be deployed, without modification, on 8 different platforms: Windows®, Red Hat® Linux, UnixWare®, QNX®, HP-UX, IBM-AIX, Sun™ Solaris™, Dec Alpha.

Zim's flexibility and connectivity enables the diverse development of robust and simple architectures. Zim helps you to increase productivity in development, implementation and maintenance. Take a moment and see for yourself how the Zim suite of products can address your database DEVELOPMENT, CONNECTIVITY and DEPLOYMENT needs. Visit <http://www.zim.biz/wireless/zimdevelopment.html>

The Entity Relationship Model

The Entity Relationship (E-R) Model is the standard for analyzing and designing relational databases. Both the Zim language and the RDBMS database are based on the E-R Model. This combination can greatly enhance the efficiency of application development and deployment.

Benefits of using the E-R Model:

- E-R depicts a macro view of the business model;
- When modeling, you do not have to be concerned with actual data that tables will or must contain, such as primary keys, foreign keys, etc. Rather, your attention is directly on the model itself and how business objects are related to one another;
- It is easier for end users, (the ultimate owners of the model) to participate in the data-modeling phase;

Using Zim, all of your logical model-defined objects will map directly into the Zim Object Dictionary. This saves you significant time and effort particularly when transforming your logical model into a physical model. Moreover, direct mapping from the logic to the physical model ensures simple and efficient access to databases.

Set Processing

In Zim, all data manipulation commands are set-based, so instead of working on a record-by-record basis, application logic is applied to set processes, improving the efficiency and effectiveness of development. For example, you can simultaneously update many tables with a single command, resulting in less code and minimal maintenance for the system.

4G Programming Language

The Zim language uses the E-R Model, thereby eliminating the need for complex expressions to relate isolated tables.

On average, Zim only requires 19 statements to perform one complete function point, compared to the more than 30 statements required by most of its competitors. This saves valuable development time and ensures that Zim applications can be deployed quickly and efficiently.

Zim Language Code Example:

```
Find Customers Issue Orders Require Products
ReceivedFrom Suppliers \
where customers.CCode = '1001'
```

SQL Code Example:

```
Select * from Customers,Orders,Require,Product,
ReceivedFrom,Supplier
where Customers.CCode = '1001'
and Customers.CCode = Orders.CCode
and Order.OrderNo = Require.OrderNo
and Require.ProdCode = Products.ProdCode
and Products.ProdCode = ReceivedFrom.ProdCode
```



Upcoming Release - Zim 8

Zim 8 is the redesigned, powerful and industry-proven Zim database and development language. Zim 8 is based on the Entity-Relationship architecture and has many new features that can take your database system to a whole new level. Zim 8 now has an advanced lock manager, online back up and supports multiple users. With new data, transaction and locking mechanisms, built to handle even the most complex database needs, we know you'll be amazed at what Zim 8 can do for you. Call our Account Manager at +1 613 727 1397 for more details on the upcoming release.

Contact ZIM today

For more details about Zim IDE, please contact sales at +1 613 727 1397 or e-mail us at sales@zim.biz
For more information on ZIM Corporation and our entire product suite, please visit www.zim.biz.

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