



UniData

Secure and Available 24 X 7

Highlights

- Delivers low TCO and exceptional scalability to meet the challenges of on demand business in the SMB and large enterprise market
- Provides intuitive design and high-performance queries using extended relational data model
- Enables use of standard protocols including ODBC, OLEDB, ADO.NET, JDBC, XML and SOAP
- Supports security and robustness via encryption, authentication and high availability features
- Features native, high performance interfaces for .NET, Java™ and more
- Leverages application investment with flexible data storage

Flexible and based on open standards, UniData uses standard protocols such as XML

Tuned for business

The current economic climate demands more from your technology than ever before. While easy-to-use, high-performance solutions have always offered a faster return on investment, they may be a matter of survival today. And for businesses prepared to take advantage of changing times to position themselves for the future, they offer a competitive advantage.

UniData® comes into its own at times like these, delivering the capabilities you need to develop, enhance and deploy comprehensive business applications rapidly and with minimal cost.

UniData is an extended relational database ideal for embedding in vertical solutions. It allows multiple nested tables within a table, while maintaining support for ANSI SQL access. Data modeling is more intuitive and fewer tables are created compared with a traditional relational database.

Using UniData, developers can create solutions quickly and easily for a wide variety of markets. The product's real-world approach to application development and deployment minimizes time

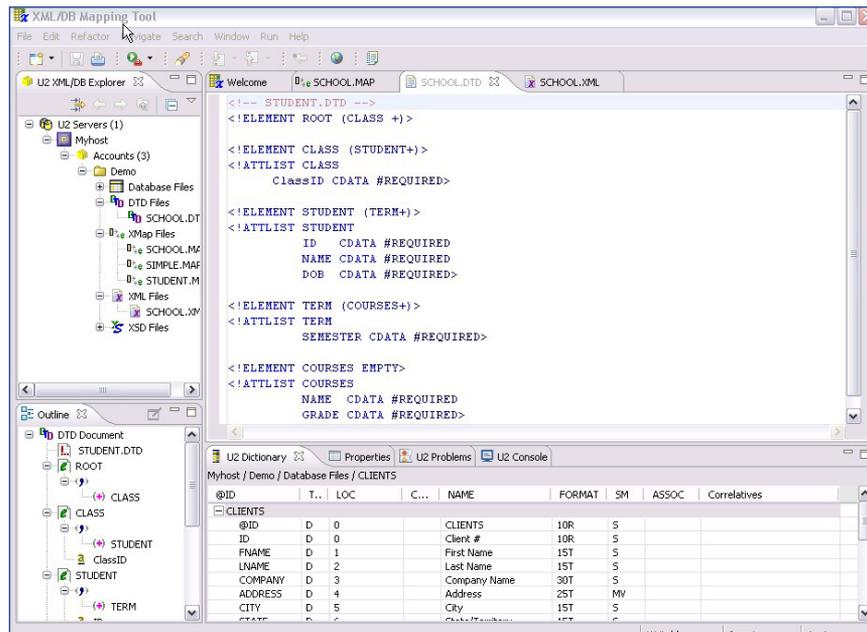
to market, which in turn saves you money and helps you compete more effectively.

Flexible and Performant, UniData:

- Provides intuitive data storage, efficient data access, and simple database management capabilities
- Delivers, high-performance, record-oriented access and integrated development environment
- Scales from small workgroups to thousands of concurrent users
- Automatically allocates table space to optimize performance

Intuitive, rapid queries

UniData's data model enables rapid and intuitive querying via both UniData SQL and UniQuery. UniData SQL is a nested implementation of the ANSI structured query language (SQL) with extensions for navigating nested data structures. These extensions provide a simple and efficient query language. UniQuery provides a native language interface.



Additional Tools

UniVerse users can benefit from the following development tools:

- U2 Web Development Environment—an object-based application platform for rapid development and scalable deployment of Web applications
- U2.NET—an ADO.NET provider and Microsoft™ Visual Studio add-ins for MultiValue-centric programming in a .NET framework
- IBM.NET—a relational ADO.NET provider for UniVerse and UniData as well as IBM DB2®, and IBM Informix® Dynamic Server. IBM.NET includes SQL-based Add-ins for Visual Studio and supports SSLStream, LINQ, Silverlight, WPF and XAML
- SystemBuilder—a cross-platform, complete, rapid application development environment with flexible, modern deployment and presentation options
- wIntegrate—advanced terminal emulation and application enhancement tool for creating modern user interfaces

Develop once, deploy often

UniData's unique integrated application development environment allows you to create powerful, transaction-intensive applications. UniBasic is a dynamic language that is ideal for implementing business logic in a robust application. UniBasic compiles to byte code, allowing you to develop once and deploy across any platform for which a UniData virtual machine is available.

The Basic Developers Toolkit (BDT) is an integrated, graphical development environment. BDT, a set of Eclipse plug-ins, gives programmers the ability to explore UniData resources, and edit, compile and debug code in UniBasic. This powerful and fun-to-use tool raises programmer productivity and fosters the use of programming best practices.

UniBasic supports rapid prototyping and full navigation of nested data structures. High-performance data access commands and full SQL, C, Socket, XML and SOAP interfaces offer a wide range of flexible development choices. Comprehensive array, string and matrix-handling commands, and numerous flow control structures make complex programming jobs manageable and cost-effective.

Interoperability

UniData supports XML and other web services standards for both incoming and outgoing communications. UniData supports XML document object model (DOM) handling and Simple Object Access Protocol (SOAP) requests within UniBasic. UniData includes Java Database Connectivity (JDBC), Open Database Connectivity (ODBC), Microsoft OLE DB and ADO.NET drivers for access via standards-based tools. UniData also includes native, high-performance interfaces via C, Java, Active-X and .NET.

Solid Security

UniData applications create secure communication channels using Open Secure Sockets Layer (OpenSSL). UniBasic, Java and Microsoft® Windows® interfaces support SSL for client and server authentication, encryption and message integrity. UniData's Java-based graphical administration tools simplify SSL configuration and management.

UniData offers Automated Data Encryption (ADE) to protect sensitive data on disk, which requires minimal changes to existing applications. Records or fields can be configured to be encrypted and decrypted automatically, as they are written to or read from disk. A graphical user interface is provided for the management of encryption keys and wallet support for automating key activation.

Robustness and high availability

UniData offers recoverability, support for transaction processing, and data replication to enable a high level of robustness for mission-critical solutions. The Recoverable File System (RFS) feature logs transactional and non-transactional updates to disk or tape to protect the structural and logical integrity of files in the event of a media or system failure. RFS speeds recovery by processing only committed transactions.

RFS Archiving can roll forward journal logs since your last backup. RFS Monitoring tracks memory usage and log utilization during configuration, testing and production.

UniData applications can use Transaction Processing (TP) semantics to logically group a set of related updates. With RFS, TP supports the atomicity, consistency, isolation and durability (ACID) properties of a transaction.

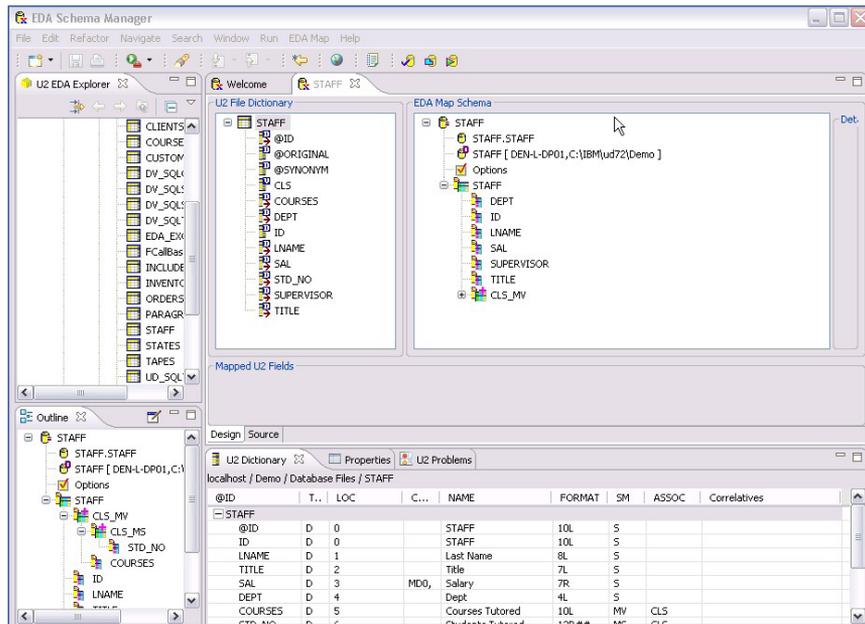
UniData Data Replication automatically publishes read-only copies of UniData files to one or more subscribing UniData systems. Use the replicated data for a standby system in case of system failure, as a reporting system, or with RFS to minimize the recovery time when the primary system fails. You can schedule data replication on a periodic basis as needed, for example, weekly, hourly or instantaneously.

Native support for .NET

UniData provides several options to build and deploy a wide variety of Web-based applications that work seamlessly with .NET, using standard, platform-independent protocols such as XML, SOAP and HTTP.

UniData and UniVerse Add-ins for Visual Studio (U2.NET) provides an ADO.NET provider and

External database access provides the flexibility to store some or all of your data in either UniData files or in an external database such as IBM DB2® Universal Database™



Microsoft™ Visual Studio add-ins for extended relational programming in a .NET framework.

If a relational ADO.NET provider is desired, IBM Data Servers Provider for .NET (IBM.NET) delivers SQL-based Add-ins for Visual Studio. UniObjects for .NET gives high performance, native access to the UniData database, allowing developers to create a scalable .NET application using a managed interface.

UniObjects for .NET is written in C# and can be used from any .NET language. Connection pooling increases scalability and throughput for native access to U2 databases.

External database access

External database access (EDA) provides the flexibility to store some or all of your data in either UniData files or an external database such as IBM DB2® Universal Database.

EDA provides the ability to transparently access and update data from an existing UniData application. Graphical tools ease schema mapping and configuration management.

EDA is architected to map to both relational and XML data models. Built-in optimization ensures use of best-of-breed functionality in each environment.

Hardware and software requirements

UniData supports major hardware platforms running Microsoft Windows, Linux and UNIX. Please see the U2 Product Availability Matrix at rocketsoftware/u2 for more information.

The UniData advantage

While there are other extended relational solutions on the market, none offer the strength and viability of UniData and its complementary tools and clients.

There has never been a better time to move your mission-critical applications to UniData. If you already have an application running on another database, it will pay you to consider your options. Rocket Software offers special migration opportunities for those interested in a solid, long-term technology partnership.

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