



# UniObjects Application Programming Interface Data Sheet

UniObjects is an ActiveX control (OCX) whose objects are able to take full advantage of the dual interface standard for either fast COM or flexible automation interfaces, both supported by Visual Basic. As a result, UniObjects brings the proven advantages of object-oriented development to UniVerse and UniData (U2™) development. In UniVerse, National Language Support (UV/NLS) capabilities also provide developers with a unified method for creating applications for use in any country in the world.

In the case of Visual Basic, UniObjects becomes a natural extension to the language. Some of the objects provided are: Session, File, Dynamic Array, Select List, Dictionary, Command, Sequential File, Transaction, and the Subroutine object which permits reuse of existing application subroutines. All objects can be manipulated in the same rapid and easy-to-use manner as a traditional U2 application.

UniObjects supports rapid application development. Records are read and written using "Dynamic Array" objects, which provide easy-to-use access to complex data structures representing real-world business objects such as orders, invoices, customers, etc. Its ability to fully support the reuse of components also helps ensure the development of high quality applications faster, more efficiently, and often at a lower cost.

## Benefits

- Fast and Powerful

Supports the use of desktop development tools, including Visual Basic, Visual InterDev, Visual C++ and Delphi, and uses native ActiveX objects for Rapid Application Development (RAD) to create graphical applications quickly and easily with maximum reuse.

- Provides access to the proven benefits of component-based development

With ActiveX-enabled tools, developers can select the best custom controls, such as graphical or imaging add-ons to use in conjunction with UniObjects. In this environment, each component can fully co-operate and exchange data seamlessly. The result is reduced network traffic and increased overall maintainability over other client/server solutions. Developers also take full advantage of years of proven business logic.

- Enhances investment in existing technology

UniObjects lets companies capitalize on Microsoft COM technology for new GUI application interfaces. Yet they also leverage today's application by calling existing cataloged subroutines.

Developers can easily change the front end, without sacrificing years of investment in existing technology.

## Features

- ActiveX (OLE) Automation Integration through OCX technology
- Develop applications using either COM for efficiency, or Automation for flexibility <
- Supports Visual Basic and other popular ADEs
- Uses appropriate NetBIOS or TCP/IP networking against the target server
- Includes objects for files, sequential files, select lists, etc.
- Enables reuse of existing subroutines
- Offers direct mapping to database constructs and data models
- >Provides integration with the database dictionary
- Allows application partitioning
- Features defined, consistent, and flexible locking strategies and exception handling
- Supports dynamic arrays and their inherent properties and methods
- Serves as a single API for both NT and UNIX servers
- Integrates with database transaction manager
- Fully enabled for UniVerse NLS with appropriate character map and locale session properties

## Technical Requirements

UniObjects is available for both Windows NT/2000 and UNIX-based servers. UniObjects supports Microsoft Windows 32-bit clients.

## Availability and Packaging

UniObjects client components form part of the Uni Development Kit (UniDK) supplied with UniVerse Release 9.5.1C and UniData 5.1 and higher.