Rocket® U2 Toolkit for .NET

.NET Capabilities for Access to the Powerful Rocket U2 Databases

Leverage the powerful Microsoft® .NET Framework and CLR

Speed development with U2 Database Add-ins for Visual Studio

Provide Connection Pooling Monitoring

Interface with Microsoft standards SSIS and SSRS

Includes ADO.NET Compatibility

Create Entity Data Model and Code First Model using Asynchronous API

Create secure SSL connections to U2 Database

Take advantage of Server Side ADE using Connection String Parameters such as WalletID and WalletPwd

Supports IPv6 addressing using Connection String Parameters

Grab the Power

You need to build applications quickly that have the look and feel of the Microsoft® .NET framework. Microsoft® Visual Studio gives you a solid integrated development environment that is widely known, but how do you take advantage of it? Rocket® U2 Toolkit for .NET (U2 Toolkit) comes in two flavors. U2 Toolkit for .NET Provider brings a free .NET data provider interface for Rocket® Universe and Rocket® UniData while U2 Toolkit for .NET Developer adds the ability to develop in Visual Studio. U2 Toolkit gives you the ability to utilize the latest in Microsoft development capability with your UniData or UniVerse database. Your investment in your embedded business logic is protected while you exploit the power of .NET to extend the look, feel, and appeal of your applications for both 32-bit and 64-bit platforms. With U2 Toolkit, you can do more than just keep up with development trends - you can be a leader. Interested in developing to the new Windows 8 Interface? You can do that and still keep your business logic in place. Adding .NET to your toolbox gives you interfaces like SQL Server Integration Services (SSIS) and SQL Server Reporting Services (SSRS), allowing you to incorporate other tools that use this popular framework of standards.

All of Your .NET Needs in One Place - Keep It Simple

Sometimes, all you need is one simple interface. Other times, you need more. U2 Toolkit for .NET gives you complete control.

U2 Toolkit for .NET Provider gives your .NET application the ability to connect to your U2 database, execute the commands of the application, and then delivers result sets and DataSets to your application. It is lightweight and highly performant, yet provides full functionality to the application developer.

U2 Toolkit for .NET Developer is a collection of features that integrates seamlessly into your Visual Studio development environment so that you can work with UniVerse's and UniData's objects such as tables, views and subroutines. They are designed to present a simple interface to U2 databases. For example, you can access and manage U2 Connections in Visual Studio Server Explorer, view server side object properties, retrieve and update data from tables and views, and Generate ADO .NET and EDM code using a drag-and-drop technique.

Extend Your Capabilities

If you've got data migration tasks to accomplish, SQL Server Integration Services (SSIS) is a powerful tool to help you. From providing you with a simple way to copy files to updating your data warehouse, SSIS gives you capabilities to take your application to a new level. It can also extract, transform, and load your data into or from your UniData or UniVerse database. U2 Toolkit for .NET 's Native Access Mode and SSIS allow you to move data from U2 Files to other databases such as SQL Server, Oracle, Azure Cloud SQL Database, Azure Cloud NoSQL Table Storage and Amazon RedShift Cloud. U2 Add-ins for Microsoft® Visual Studio integration with SSIS is a valuable addition to your toolbox.

When you need to deliver new reports to your customers, SQL Server Reporting Services (SSRS) can help you speed up that delivery. SSRS was built to help you rapidly create and deploy new reports. U2 Toolkit for .NET 's Native Access Mode and SSRS allow you to build reports and dashboards from U2 Files. You can convert U2 Reports into oData (REST) and consume oData using Excel.

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Model Your Data

As developers are relieved of the need to understand the details of underlying data, they are freed to treat data as logical groupings (entities) and focus on business logic. Microsoft's Entity Data Model maps these entities to a physical UniData or UniVerse database, and allows the developer to manipulate this data at the entity level. Now you can take your development shop to a state-of-the-art conceptual level using declarative queries and execute updates over entities and entity relationships.

Peace of Mind

Having Rocket Software as your source for both your database and .NET tooling ensures you have the best of both worlds: the powerful UniData or UniVerse data server as your infrastructure, and the powerful, modern capabilities of U2 Toolkit as your development environment.

Reinforce Your Security Strategy

Keeping your data secure has never been more important. With U2 Toolkit, you can harness of Automatic Data Encryption in UniData and UniVerse to protect your stored data.. You can also use SSL data encryption to secure the integrity of your data and to provide secure authentication as information is being transmitted between systems.

U2 Toolkit provides 100% managed code, which means you won't have to rely on components outside the .NET managed environment, therefore allowing your application to take full advantage of the security controls built into the .NET framework.

Performance is King

U2 Toolkit is tightly integrated to the Rocket U2 database servers to deliver maximum performance. This tight integration also assures you will able to take full advantage of the features in UniData and UniVerse that you've come to count on to deliver value and reliability to your customers.

What's New with U2 Toolkit for .NET 2.2?

Now U2 Toolkit for .NET Provider and U2 Toolkit for .NET Developer are supported on 4.5 .NET Framework and Microsoft® Visual Studio 2013

Develop Web Applications using ASP.NET MVC 5 and ASP.NET Web API 2 RESTful Web Service

Create Reports and Dashboards using SQL Server Reporting Services 2014 (SSRS)

Move Rocket U2 Data to different Data Sources (such as SQL Server, Azure NoSQL Table Storage, and Amazon RedShift) using SQL Server Integration Services 2014 (SSIS)
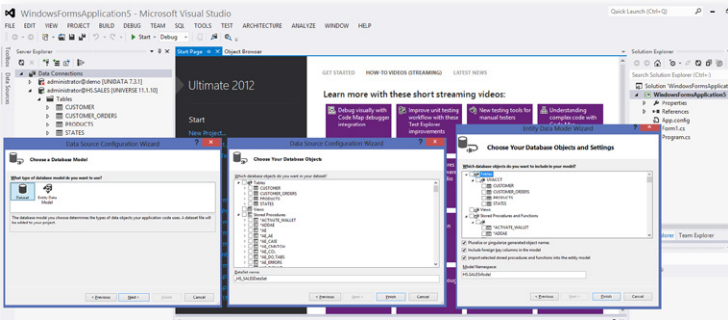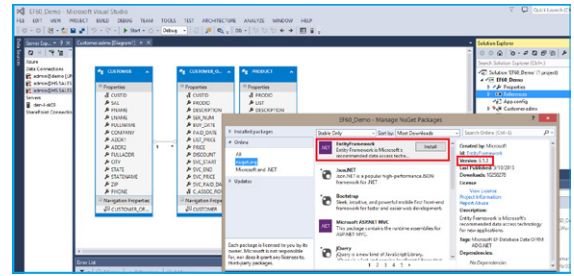
Device Licensing in Terminal/Citrix Server environment

Performance improvements with Native batch update

Develop Entity Data Model and Code First Model using Entity Framework 6.1 and LINQ to Entity

ADO.NET Asynchronous Programming using async\await.

Entity Framework 6.1 Support
U2 Toolkit for .NET v2.2 allows you to generate Entity Data Model and Code First Model using Entity Framework 6.1.

VS2012's Server Explorer Support
U2 Toolkit seamlessly integrates with Visual Studio 2012. It supports both "Data Set Generation" and "Entity Data Model Generation."

Technical Specifications

The following requirements must be met in order for U2 Toolkit for .NET to work correctly on your system.

System requirements

- Microsoft® Windows 8.1 (32-bit/64-bit), Windows 8 (32-bit/64-bit), Windows 7 (32-bit/64-bit), Windows 2012, Windows 2008
- Microsoft® .NET Framework 4.5, 4.0
- Microsoft® Visual Studio 2013, 2012, 2010
- Microsoft® Entity Framework 6.1, 5.0, 4.x

Supported versions of Rocket® UniData and Rocket® Universe

- UniData 7.2 or later
- UniVerse 11.1 or later

Supported versions of Microsoft® Visual Studio

U2 Toolkit for .NET	Microsoft® Visual Studio	.NET Framework	Entity Frameworks	Visual Studio Express
U2 Toolkit for .NET Provider	2013, 2012, 2010	4.5, 4.0	6.1, 5.0, 4.x	2013, 2012, 2010
U2 Toolkit for .NET Developer	2013, 2012, 2010	4.5, 4.0	6.1, 5.0, 4.x	no support

For more information about the changes in Microsoft® Visual Studio, refer to the Microsoft website: www.microsoft.com/visualstudio.

SSIS/SSRS

Business Intelligence Development Studio within the Visual Studio environment	2013	2012	2010
SQL Access	Yes	Yes	Yes
Native Visual Studio Integration	Yes	Yes	Yes

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