



## uniPaaS V1.9j

### Release Notes

**W**e are proud to introduce **uniPaaS V1.9j**. uniPaaS V1.9j is an improved and updated version of the uniPaaS V1.9 release. Read the information in this document to find out more about this latest uniPaaS version.

For more information about previous uniPaaS releases, see the [PastReleaseNotes.pdf](#) file provided with this installation.

## General Information

### *Introducing Magic Software's uniPaaS V1.9j*

We are delighted to announce the launch of a new release of Magic Software's uniPaaS SaaS-Enabled Application Platform.

uniPaaS allows organizations to quickly and cost effectively enjoy all the benefits of Rich Internet Applications (RIA) and Software-as-a-Service (SaaS) applications, whether on-premise, or on-demand.

Based upon a unique, unitary development paradigm, uniPaaS gives the power to quickly develop, enhance, and deploy business applications under multiple deployment models and at a fraction of the cost and time compared to conventional .NET or Java environments.

### *Further Enhancing the Platform*

uniPaaS V1.9 introduces many new features and fixes. These new features enable you to accelerate application development and to produce more sophisticated and manageable business applications. This long list is added to the continuous effort of optimizing and proofing the product by addressing and fixing customer and internal reported problems.

### *Continued Platform Support and Compatibility*

uniPaaS was tested and is confirmed to be compatible with Windows 7 32-bit and Windows Server 2008 64-bit operating systems.

**Note:** Due to the Windows 7 UAC, when installing and running uniPaaS on Windows 7, your user must have admin rights. You may also need to right-click on the uniPaaS Studio icon and click the **Run as administrator** option.

For more information about the various platforms on which uniPaaS has been checked for operation by Magic Software Enterprises, refer to the **Compatibility Guide.pdf** file provided with this installation.

### *.NET Integration*

As of uniPaaS V1.8, you can enhance your offering by easily embedding and integrating any .NET control or assembly.

You can upgrade the look and feel of your Rich Internet Application by directly placing new .NET controls into your RIA user interface. You can also enhance the functionality of your RIA by integrating any .NET assembly.

To use the .NET functionality, you need to have .NET framework V2.0 SP1 (or above) installed on your machine. You can install it by running the NetFx20SP1\_x86.exe file in the Scripts\RIA folder.

For more information on how to add and manipulate .NET modules, see the sample available at: <http://kb.magicsoftware.com/article.aspx?article=1959&p=5> or the .NET Tutorial sample installed with uniPaaS.

Note that if your pre-version 1.9 programs use .NET objects, you must resave the programs that refer to .NET objects using the V1.9x service pack (use ^S). Alternatively, you can export and import the programs.

### ***Mobile Device Support***

Expand your IT offering by supporting mobile devices alongside stationary desktops. With the same high productivity of development and by keeping your own expertise in developing uniPaaS applications you can now easily produce highly interactive mobile applications and quickly expand your internal systems to serve the mobile workforce.

### ***uniPaaS Web Page***

Make sure to visit our [uniPaaS Web page](#), where you can view and download various documents.

### ***uniPaaS Licensing***

In addition to the new unitary development and deployment paradigm for RIA and SaaS, uniPaaS also supports any previous Magic Software editions and forms of development and deployment. However, in order to maintain your former development and deployment capabilities, you need to obtain new uniPaaS licenses that reflect your current eDeveloper V10 licenses.

To obtain uniPaaS licenses, please contact your local Magic Software representative.

### ***Migrating from eDeveloper V10.1 to uniPaaS***

Migrating an eDeveloper V10.1 application to uniPaaS is quite straightforward and no explicit migration procedure is required.

You can directly access and open eDeveloper V10 applications from the uniPaaS Studio and Runtime engines.

### ***Migrating from eDeveloper V9.4 to uniPaaS***

Migrating an eDeveloper V9.4 application to uniPaaS is fast and easy.

uniPaaS provides a collection of wizards to easily migrate your application, INI settings, and interface builder data.

In the Migration subfolder of the product, located in the Start menu of your desktop, you will find a shortcut to each of the available conversion wizards.

We recommend reading the Migration chapter in the *uniPaaS Help* before migrating your eDeveloper V9.4 applications.

### ***Bundled Products***

uniPaaS comes with the following bundled products:

- Limited version of DB2 Express – limited to 3 months
- Version Control Client – Jalindi Igloo
- The Magic Optimizer
- The Record Main Converter

### ***The Magic Optimizer***

Magic Software is happy to introduce Ocean Solutions's complementary utility – the Magic Optimizer. The Magic Optimizer provides extended query and analysis capabilities for any uniPaaS application.

This version of the Magic Optimizer provides a fully operational documentation feature, and a limited evaluation version of the remaining features.

To obtain a fully operational license of the Magic Optimizer, please contact Ocean Solutions at [info@magic-optimizer.com](mailto:info@magic-optimizer.com).

### ***From Record Main Based to Event Driven Applications***

Turn your applications into fully event driven by utilizing the new Record Main Converter utility. The Record Main Converter utility locates all of the Record Main based logic of a uniPaaS application and automatically and fully converts it to event based logic while keeping the entire functionality of the application intact.

Making your applications completely event driven enables you to utilize new features, such as Subforms and Explicit Tabbing order of controls that are not available in tasks that have the Record Main Compatible logic unit.

But most importantly, this conversion brings your application one big leap forward towards turning the application into a Rich Internet Application (RIA), allowing you to start and benefit from the great values of RIA sooner than ever before.

Note that the Record Main Converter utility might not handle specific complex logic segments. In such cases, the complex logic segment will be kept as-is to maintain the application functionality and to allow for manual intervention to complete the conversion.

### ***Downloadable Databases***

You can connect your uniPaaS application to various databases, including all of the previous eDeveloper V10 database gateways.

Below are some links to downloadable express version databases.

Make sure that the corresponding uniPaaS database gateway is included as part of the uniPaaS installation.

- [Oracle Database 10g Express Edition](#)
- [Microsoft SQL Server 2005 Express Edition](#)
- [MySQL 5.0](#)

### ***Rich Internet Application on Apache Web Server***

To run a RIA application on an Apache Web Server, the following lines should be added to the **httpd.conf** file:

```
AddType application/x-ms-application .application
AddType application/x-ms-application .manifest
AddType application/x-msdownload .dll
AddType application/octet-stream deploy
AddHandler default-handler .jpg .gif .js .txt .bat .msi
```

### ***Web and RIA development on Windows® 7***

By default, IIS 7.5 is not installed on Windows® 7.

To run Web programs or Rich Client programs using a local IIS Web server, you may need to install it manually. You can install IIS by going to **Control Panel > Programs > Advanced Options > Windows Features**.

For more information, refer to the following URLs:

<http://technet.microsoft.com/en-us/library/cc731911.aspx>

<http://technet.microsoft.com/en-us/library/cc725762.aspx>

### ***Web and RIA Development on Windows® Vista***

The uniPaaS installation cannot enable the CGI and ISAPI Extension on the IIS of Windows® Vista. If you have troubles running RIA on Windows Vista, refer to the 'Configuring IIS7 to Work with uniPaaS' technical note, which you can find in the uniPaaS Help.

### ***RTL Applications***

It is advisable to use the same const file for development and deployment; otherwise, some issues may arise, such as incorrect alignment of a Label control in RTL fields.

### *Sample Projects*

The following samples projects were added to the product and they are now installed in the 'SampleProjects' folder:

- Rich Internet Demo – The project of the live RIA Demo that is available at <http://riademo.magicsoftware.com> and <http://riademo.magicsoftware.com/mobile>
- Online Samples – A set of Online (Client/Server) examples for many Client/Server “how to” scenarios that are described in the Mastering uniPaaS book.
- Rich Internet Samples – A set of Rich Internet examples for many Rich Client “how to” scenarios that are described in the Mastering uniPaaS book.
- Mobile Web Samples – Web templates based on HTML Merge technology for mobile devices.
- .NET Tutorial – A short tutorial with examples explaining how to use .NET in uniPaaS.

All the projects are available with their source code, so you can use them in your applications.

### *SQLite Gateway*

The SQLite database is a single user, self-contained transactional SQL database engine that does not require a server or any installation or configuration.

The SQLite gateway is integrated in uniPaaS and available with every installation of uniPaaS.

### *Systinet 6.6 and Java 1.6*

Since version 1.9e, uniPaaS installs Systinet 6.6 and JRE 1.6. This version of Systinet supports Java 1.6.

Java 1.4 will not be supported when working with SSJ or using the JExplore() function.

While upgrading uniPaaS from versions earlier than 1.9e and you get the "Web Application Internal Error" message, carry out the following steps:

1. Remove or rename every subfolder under the **%WASP\_HOME%\work** subfolder (including the **system** subfolder and one subfolder per server package).
2. Reload Systinet – Systinet will regenerate the entire content of the **work** folder.

## **New Features, Feature Enhancements and Behavior Changes**

### ***Clear All Parameters in a Context***

A new option was added to the SetParam function that enables you to clear all of the parameters in a context.

To do this, call the SetParam function with an asterisk (\*) as the parameter name and a blank string as the set value.

### ***Floating License Server Engine Participation***

Only application server engines (ActivateRequestsServer = Y) that are in Background deployment mode will be counted when using a floating license.

### ***JMS – Read Message with Properties***

A new JMS program named JMS\_ReadMessage\_WithProperties was added to the JMS Connectivity messaging component to allow you to get the names and values of custom properties.

## Fixed Problems

### ***Invoke Operation – OLE Variable (QCR # 277407)***

uniPaaS crashed when an OLE variable was set as a return parameter of an Invoke COM operation.

### ***MSSQL – Incremental Locate (QCR # 499293)***

uniPaaS crashed after performing an increment locate and a view refresh with 'Keep User sort' in a program that had two Link Outer Join operations to the same data source.

### ***MSSQL – Call Program (QCR # 722715)***

uniPaaS hanged after repeatedly pressing F5 to call a program and Esc to return to the caller program.

### ***Studio – Find Reference (QCR # 725231)***

uniPaaS crashed after running a Find Reference (Ctrl+F) operation on a large expression.

### ***Rich Client – Control Verification (QCR # 727559)***

It was not possible to move to another line by using the mouse after writing illegal data, getting the error message defined in the Control Verification logical unit and then fixing the data.

### ***ODBC – Informix (QCR # 728141)***

uniPaaS used a lot of memory and eventually crashed in a scenario involving Informix Access and several thousands of records.

### ***MSSQL – Link Inner Join (QCR # 732285)***

The syntax of a Link Inner Join operation was not properly sent to the database in a specific scenario.

### ***Frame Set Form – Batch Requests (QCR # 732889)***

Partitioning error # -11 was shown when the task was defined with Keep Created Context = Yes and loading a batch request in a frame.

### ***Rich Client – DB2/400 (QCR # 735296)***

A Rich Client task generated more database activities compared to an Online task.



***Record Main Converter – Block Operation (QCR # 735588)***

The Record Main Converter ignored the last Else part of a block if the Else part had only one comment in it.

***Rich Client – Create Mode (QCR # 736830)***

Incorrect behavior was seen when the task was in Create mode and inserting a value that caused an error, such as duplicate index.

***Functions – Like (QCR # 751071)***

uniPaaS crashed after activating the Like function when there were three or more asterisks (\*) in the pattern.

***Functions – CtxGetID() (QCR # 763914)***

The CtxGetID() function failed randomly.

***Rich Client – Combo Box (QCR # 777505)***

A scrollbar was displayed for a combo box the first time it was opened when the combo box was placed in a table that had a tab order of one, and the font attached to the combo box was defined with size >10.

***Functions – CallDLL() (QCR # 782242)***

uniPaaS crashed when calling specific DLL types using the CallDLL() function.

***Rich Client – Control Verification (QCR # 783189)***

The value of a Check Box and List Box control was not reverted when the previous control had a Control Verification logical unit with a Verify Error operation.

***Functions – DataViewToXML (QCR # 785319)***

An error was returned when executing the DataViewToXML() function with an XSLT file sent as the template parameter.

***Rich Client – Allow Create (QCR # 786479)***

The program was closed instead of entering Create mode when the program had a logical variable defined for the Allow Create property, the Allow Empty Data View property was set to No, and the logical variable was updated to True on the last record before it got deleted.

***Rich Client – Cancel Event (QCR # 795155)***

The record was not saved after updating the record and then raising an event defined with Force Exit = Pre Record Update.

***Web Service Lite – Double Type (QCR # 796898)***

A wrong value was sent when calling an RPC Web service using the Web Service Lite operation and sending an integer value for an XSD Double argument.

***View Refresh – Locate (QCR # 930732)***

uniPaaS crashed after performing a View Refresh event immediately after a Locate operation was performed on a query screen.

***Performance – Form Output (QCR # 931290)***

Performing a Form Output operation where the I/O device is a Blob variable took more time compared to V9.

***Profiler – Task Timing (QCR # 934284)***

Profiler logs showed wrong total task timings.

***Rich Client – Logical Names (QCR # 935871)***

After loading two separate applications with different ini files containing different logical names and calling the first application for the second time, the logical names of the second application were displayed.

***Rich Client – Minimum Width / Height (QCR # 938415)***

Memory was increased after repeatedly calling the same program when the program's form was defined with a Minimum Width or Minimum Height.

***Subform – Context Menu (QCR # 979232)***

An error occurred when the application was defined with a default context menu and right clicking on a blank space on the table header in a subform.

***Web Services – Special Characters (QCR # 994241)***

An invalid response was retrieved when sending a special character, such as the pound sign, in a single in/out Blob parameter.

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