



# uniPaaS V1.8

## Release Notes

**W**e are proud to introduce **uniPaaS V1.8**. uniPaaS V1.8 is an improved and updated version of the uniPaaS V1.5 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 V1.8***

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

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 V1.8 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.

### ***.NET Integration***

With this release 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 RIAModules folder.

### ***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.

***With uniPaaS, you enjoy:***

- Business-driven application development
- A unitary development paradigm
- Preservation of investment and skills
- Significantly faster time-to-market and ROI
- Better performance and responsiveness
- Considerably lower cost of operation and ownership
- Much lower development risks
- Superior application productivity
- Fast and simple implementation of the SaaS model
- Future growth opportunities
- Better competitive edge, leading to higher revenues and profitability

***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](#)

### ***Certification***

For information about the various platforms on which uniPaaS V1.8 has been certified for operation by Magic Software Enterprises, refer to the **Certification.pdf** file provided with this installation.

### ***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
```

## New Features, Feature Enhancements and Behavior Changes

### *.NET Integration*

uniPaaS RIA development enables you to easily integrate any kind of .NET assembly or control as part of the client module.

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>.

### *Mobile RIA Deployment*

Developing mobile applications with uniPaaS V1.8 is very similar to developing RIA. The main difference between regular RIA and Mobile RIA is the consideration of the mobile devices' view area and the expected user experience, such as touch screen and styles, and the deployment methodology.

The RC Deployment wizard of the uniPaaS Studio was enhanced to support Mobile deployment.

For more information, read the Deployment section in the **RIA Methodology.pdf** file.

### *Disable Operation*

A new option was added to allow you to disable an operation, so it will not be executed during runtime.

This feature provides an easy way to disable some code and preserve the condition expression attached to it (and eliminates the need of creating temporary blocks around the code).

You can disable and enable sections of operations using the Ctrl+Shift+D shortcut key, the Disable Line entry in the context menu, or the Edit pulldown menu.

### *Gradient Color Support*

Enhance the user interface of your applications using the new built-in support of gradient background.

Two new properties called Gradient Style and Gradient Color were added to the form and some of the controls.

Using these properties you can create a gradient effect without the need for background images.

### *DB SQL Where Clause in Deferred Transaction*

The DB SQL Where clause is now also supported for deferred transaction tasks.

Note that when using a DB SQL Where clause in a deferred transaction task, any update done in another task on the queried data source will not be seen in the current task.

### ***Access Mode of Links***

The Access mode of a data source (database table or XML document) is now automatically determined by the Link operation type. If the Link operation type is Query or Join, the Access mode will be set to Read. If the Link operation type is Write or Create, then the Access mode will be set to Write.

This change will prevent undesired locking caused by keeping the Link in Write access when Read only access is required.

You can switch back to past behavior using the new special setting called SpecialLinkWriteAccess=Y.

### ***Maintaining RM Tab Order After RM Compatible Logic Unit Removal***

When deleting the RM Compatible logic unit and the order of the controls on the form is different than the order of the selected variables, the tab order of the controls on the form will be set according to the order of the selected variables and not according to the Automatic tab order.

### ***Default Task Type***

The default task type for newly created programs can be defined using a new option called 'Default task type' in the Settings menu > Environment -> Preferences tab.

Setting this property will allow you to set the default of uniPaaS to develop RIA solutions, without having to change the task type for each newly created program.

### ***Encrypted Internal Communication***

Messages transferred between the uniPaaS requester, broker, and engine can be encrypted using commercial encryption algorithms.

This can be set by using a new keyword called EncryptedCommunication in all the mgreq.ini files.

### ***Requester File Rename***

The mgrqispi.dll and mgrqcgi.exe files are no longer dependent on the mgrqhttp\*.dll and mgrqgnrc\*.dll files, which were removed.

This will allow you to rename the requester dll files and thus use different Web requesters with the same version on the same Web server.

Note that the uniPaaS product version is now removed from the requester file names, so you no longer need to update your HTML files when you upgrade uniPaaS.

### ***Browser Client – Default Application and Program Name***

The requester now allows you to define the default application name and program name to be used whenever the APPNAME or PRGNAME is missing in the URL.

This improvement will remove the need to specify and manage the APPNAME and PRGNAME in the URL addresses in the Web pages and will also hide the entry point of the program.

This can be done by setting two new keywords called DefApp and DefProg in the [REQUESTER\_ENV] section of the mgreq.ini file.

If both the APPNAME and PRGNAME are missing in the URL, the ARGUMENTS tag will also be removed from the URL, so the URL will be much shorter and simpler.

### ***RIA – Licensing***

It is now possible to load an MGRIA license without using the MGENTx license, just by specifying the MGRIA feature as the license name.

Using this type of license will cause the server to handle only RIA requests and reject all other non-RIA requests.

You can continue to use your existing MGENTx license to have the server automatically load an additional MGRIA license and therefore handle all types of requests.

### ***RIA – Cache Security Enhancements***

A new cache mechanism was introduced to remove the need of having a cache folder accessible over an HTTP. The cache will be managed by the Web requesters (ISAPI/Apache/CGI) and will not require the cache folders to be accessible over an HTTP.

### ***RIA – Additional Neutral Functions***

The following set of functions are now neutral in Rich Client tasks and will no longer require access to the server to be evaluated: AddDateTime(), AppName(), BlobSize(), DifDateTime(), mTime(),mTStr(), mTVal().

### ***RIA – Call Operation Enhancements***

The Call operation was enhanced with a new property called 'Retain Focus', which defines whether the focus will remain on the current control or be moved to the first control of the called program or task after executing the Call operation.

This property is enabled when performing the call from a logic unit other than the Task, Record, or Control logic units to a destination subform or frame using the Destination property.

### ***RIA – Invoke OS Command Operation Enhancements***

The Wait and Show properties are now supported for the Invoke OS command set with Execute On=Client.

### ***RIA – Image Control Border Property***

The Rich Client Image control was enhanced and now includes a property to determine the style of the image border.

### ***RIA – First Program Execution Improvements***

The execution time of the 1st Rich Client program from the Studio is now improved by launching the Rich Client module upon the Studio startup. This will only be done if a Rich Client program was used in the previous sessions.

### ***RIA – External Event***

The External Event is now supported in Rich Client tasks and can be used to receive information from an HTML page running in the internal Rich Client Browser control.

You can raise this event by using: `window.external.MGExternalEvent(parameter)`.

This event is an alternative to the `BrowserStatusTextChange` event, which is blocked by default in Microsoft IE7.

### ***RIA – BrowserScriptExecute() Changes***

The `BrowserScriptExecute()` function was enhanced with an additional optional parameter called 'language'. You should use this parameter when executing scripts in a language other than JScript.

### ***RIA – Session Statistics***

Each RIA session maintains its execution statistics. You can use this information in one of the following ways:

1. Display a screen with this information once the session has ended. This can be done using the existing 'DisplayStatisticInformation' execution property, which is available in the published HTML file.
2. Get the information from the current session using the new `ClientSessionStatisticsGet` function.

### ***RIA – Client Log Level Changes***

The level of the uniPaaS internal log file will now be limited by the InternalLogLevel keyword defined in the [MAGIC\_RIA] section of the magic.ini file.

This keyword defines the maximum log level allowed by the client, so it will not be possible to create a full log just by manipulating the execution properties file on the client side.

If the keyword is not set, the maximum level will be SERVER.

### ***Installation – Version Control***

The CVSNT server is no longer bundled with uniPaaS. The CVSNT server is still supported and can be manually downloaded from <http://www.cvsnt.com>.

## Fixed Problems

### ***Web Services – SOAP Client (QCR # 243221)***

The SOAP Client module was created in a wrong location in a specific scenario.

### ***Rich Client – Subform Control (QCR # 245338)***

The caret disappeared when performing a Call operation with the Destination property set to a value other than blank, when the called program had no parkable controls.

### ***Version Control – Hebrew Version (QCR # 421977)***

The 'Keep checked out' caption in the Check-In screen was not seen completely when using the Hebrew version.

### ***XML – Minimum Length (QCR # 456611)***

uniPaaS did not use the default picture of the element as the field picture when the maximum length of the element was not defined and the default picture was bigger than the minimum length property.

### ***Report Generator – Section Removal (QCR # 466116)***

The form layout in the Report Generator was not shown properly when any of the report sections were removed.

### ***Rich Client – Subform Control (QCR # 466924)***

uniPaaS crashed after performing a Call with the Destination property set with a value other than blank, when the called program encountered an error.

### ***MSSQL – Log File (QCR # 511766)***

uniPaaS crashed while running a Batch task to perform multiple updates to an MSSQL table that included a datetime column when activating the log for the MSSQL database.

### ***Rich Client – Hebrew Version (QCR # 513274)***

Edit controls placed on a Tab control were not displayed at runtime when the Right to Left property of the Tab control was set to Yes.

### ***Init Expression – Variable Creation (QCR # 608481)***

uniPaaS crashed when an Init expression was used and the expression contained a variable that was added after other variables were deleted in a specific scenario.

***Subform Control – Automatic Refresh (QCR # 711321)***

A Subform control was not refreshed automatically when the variable sent to it was updated in the Control Prefix logic unit of the first parkable control of another subform.

***MSSQL – Identity Column (QCR # 712518)***

uniPaaS tried to update the Identity columns in a specific scenario where they appeared in more than one link.

***Rich Client – Empty Dataview (QCR # 721529)***

The "Cursor cannot park on any control" error message was displayed even though the Allow Empty Dataview property was set to Yes when the CtrlGoto function was used to park on a subform with an empty view.

***Report Generator – Expression Values (QCR # 722127)***

The Report Generator treated an Alpha variable with a blank value as numeric when defining an expression and clicking on the Test button of the Report Generator.

***Property Sheet – Event Parameters (QCR # 728368)***

The event parameter variables were not shown in the Expression Editor when it was opened from the property sheet of an operation that was defined in the Event logic unit.

***Flow List Window – Operation Names (QCR # 728880)***

The old operation names were shown in the Flow List window that was opened when zooming in to select an operation after performing a Move, Overwrite or Repeat operation.

***Functions – CtxClose() (QCR # 730026)***

The CtxClose() function did not close contexts created for parallel programs when using Deployment = Online.

***Rich Client – Multi-Line Edit (QCR # 731475)***

Pressing the Enter key in a non-Multi-Line Edit control performed the "Begin Next Line" event instead of the "Next Field" event when the previous control of the non-MLE control was an MLE control and the Enter key was mapped to both the "Next Field" and "Begin Next Line" events.

***Report Generator – Fetched Window (QCR # 731623)***

The 5<sup>th</sup> digit in the record counter field was not displayed properly in the fetched window, on some screen resolutions when using the Classic Windows theme.

***uniPaaS Studio – Project Load (QCR # 733074)***

uniPaaS was closed while opening a project from a location with a very long path.

***Table Control – Width Expression (QCR # 734215)***

The Width expression of a Table control was ignored when any of the Placement properties were set for the table and all the columns were defined with Placement as No.

***Rich Client – Menus (QCR # 735435)***

The Menu separators were not removed from the toolbar when the menu was set to be hidden.

***Rich Client – Special Characters (QCR # 754580)***

Special characters, such as ~ " ', were not displayed in an Alpha field when the keyboard layout was set as US International.

***Controls – Vista OS (QCR # 763674)***

Some controls were not displayed properly when using the Special3DSyle special setting and running under the Windows Vista operating system.

***Parking – Allowed Direction (QCR # 765386)***

The caret parked on the wrong field when the Resident property of the task was defined as Yes and the Allowed Direction property of the field was defined as "Backward" and the task called itself.

***Functions – FileDLG() (QCR # 767458)***

The FileDLG() function opened the file dialog box on the working directory instead of on the directory where the previous file was selected from.

***Functions – DataViewToXML() (QCR # 768549)***

The DataViewToXML() function returned wrong results when executed from a component.

***Rich Client – Column Sort (QCR # 768765)***

The Column Sort feature did not work properly when using a Rich Client task with a direct SQL statement.

***Rich Client – Table Control (QCR # 771609)***

The highlighted row of the Table control blinked while moving fast between the records of the table and retrieving chunks of data from the server along the way.

***AS/400 ISAM – Unicode (QCR # 771725)***

uniPaaS crashed after performing APG on an AS/400 ISAM data source that contained a Unicode field when the data source was defined with the STORAGE=DB2 keyword in its SQL Information tab.

***Record Main Compatible – KGet() (QCR # 774947)***

KGet (1) worked only for the first record when defined in the RM Compatible Logical unit.

***Broker – Application Path (QCR # 775196)***

An error appeared when there was an application path length of more than 255 characters in the [APPLICATION\_LIST] section of the mgrb.ini file.

***Subform Control – Visibility (QCR # 775206)***

The visibility of a table in a Subform control was not changed if a transparent color was attached to the form of the task running in the Subform control.

***Check Box Control – Transparent Color (QCR # 775521)***

The dotted line that is displayed around a Check Box control while parked on it, did not disappear, even after the focus was shifted to another control, when a transparent color was attached to the Check Box control.

***Printing – Page Footer Event (QCR # 776203)***

The Page Footer event was not raised when the last page was printed.

***Report Generator – Portuguese Operating System (QCR # 776245)***

A report disappeared after changing the font of its fields, when the language of the operating system was set to Portuguese.

***Tree Control – Focus (QCR # 776697)***

The focus was shifted to the previously dragged tree node while dragging two different tree nodes and dropping them on a Table control one after the other.

***Rich Client – Alignment (QCR # 777117)***

The Alignment property of the field was ignored when the field had an expression attached to the Format property.

***V9 Converter – Log File (QCR # 777599)***

The log file generated by the V9 Converter utility contained an incorrect message when illegal operations existed in the Record Main of the converted task.

***iSeries – Get Definition (QCR # 777711)***

Performing Get Definition on an iSeries ISAM table did not return all the SQL information.

***Rich Client – Service Pack Upgrade (QCR # 778235)***

When running a Rich Client application after installing a uniPaaS service pack, a question whether to upgrade the client appeared with the Skip button, which caused the application not to be upgraded and therefore the application failed to work.

***Browser Client – Application Name (QCR # 779177)***

The original name of the project appeared in the Appname parameter of the URL even though the application was registered to the broker with a different name.

***XML – Load (QCR # 779766)***

An error appeared after loading a specific XML schema file.

***Create Mode – End Task Condition (QCR # 779818)***

The End Task Condition was not evaluated properly when its expression checked whether the current task mode was Create.

***Functions – Task Generation (QCR # 779882)***

Functions that accept the task generation as a parameter did not work properly when used in a user-defined function that was placed on the form.

***Rich Client – Radio Button (QCR # 780401)***

The Radio Button control did not return the correct value when a Variable Change logic unit was defined on the Radio Button.

***Tools Infrastructure – Version Control (QCR # 780437)***

The program was not checked-in automatically when using the Tools infrastructure to import the program and using the Autocheckout flag set to Y in the post operation file.

***Rich Client – Menu Functions (QCR # 780555)***

The menu was not updated properly when the MnuEnabl() and MnuShow() functions were evaluated from an Event logic unit defined in the Main program.

***Multi Mark – Clear Markings (QCR # 781614)***

The marked indication was not cleared when evaluating the MMClear() function from an Event logic unit in the Main program.

***Rich Client – Subform Control (QCR # 781719)***

Subforms were not refreshed when an Event logic unit containing the Subform Refresh event was defined in the parent program and this event was raised from another subform.

***Rich Client – Scroll Bars (QCR # 782458)***

Scroll bars appeared after minimizing and restoring the window at runtime.

***Rich Client – Browser Control (QCR # 782876)***

Some image types (such as .bmp files) launched a viewer program when used as the content of a Browser control instead of being shown directly in the Browser control.

***Rich Client – Subform Control (QCR # 782953)***

The subform task did not refresh properly while browsing through the parent task records when the Subform control was placed on a Tab control that was initially hidden.

***Functions – MnuEnabl() (QCR # 782971)***

The previous states of a submenu were not kept, so if the menu entry and submenu entry were disabled, and then only the menu entry was enabled, then all the submenus became enabled.

***V9 Converter – Application Load (QCR # 783021)***

An error was returned when opening a specific application that was converted from eDeveloper V9 using the V9 Converter utility.

***Storage Types – Unicode (QCR # 783134)***

The wrong value was shown when using a Unicode model as the cell model of a vector and the vector was passed to Excel using an Invoke COM operation.

***Table Control – Column Title (QCR # 783609)***

Garbage characters, such as CR and LF, were displayed in the column title in several scenarios on some machines.

***Rich Client – Slovak Characters (QCR # 783617)***

Slovak characters were not displayed properly.

***Rich Client – Block While (QCR # 783843)***

Mixed operations in a Block While section were executed simultaneously instead of one after the other when any server-side operation was executed before the Block operation.

***Events – Empty Dataview (QCR # 784682)***

The program was terminated without performing its event handlers when executing a program with an empty dataview and invoking a user handler that had the Force Exit property set to Pre record update or Post record update.

***Oracle – TimeStamp Field (QCR # 784881)***

uniPaaS crashed after browsing through the records of a data source defined with a TIMESTAMP field mapped to an Alpha attribute and with an SQL Type set to 'systimestamp'.

***Rich Client – Link Query (QCR # 785270)***

A Link Query failed after a View Refresh event was executed with the Relocate Mode parameter set to 0 in a specific scenario.

***Rich Client – Image Control (QCR # 785429)***

A Text control placed on an Image control was not displayed even though the Text control had a higher Z-Order.

***Version Control – Program Headers (QCR # 786285)***

The ProgramHeaders.xml file was not updated after performing Get Latest Version of a project.

***Form Editor – Control Name (QCR # 790668)***

The control name of an Edit control with a variable was changed if the control name was set to blank when zooming from the Data property and pressing Cancel or Escape.

***AS/400 – EASYCOM (QCR # 792753)***

EASYCOM wrongly showed an error message while running a specific program.

***Rich Client – Control Verification (QCR # 793138)***

A Call program defined in a Control Verification logic unit of a control that was placed on the second tab of a Tab control got executed multiple times if the Tab control was updated to the second tab before the Call operation.

***AS/400 – EASYCOM (QCR # 800237)***

EASYCOM showed an error message when simultaneously running a program from two different sessions.

***Rich Client – Record Flush (QCR # 804604)***

The updated values were not saved to the database when raising a Record Flush event without leaving the updated record.

***Print Data – Template File (QCR # 910800)***

The Print Data dialog box did not save the last template file name used when the Template File property defined in the magic.ini file was blank.

***RM Converter – Corrupted Program (QCR # 912420)***

uniPaaS showed an error about a corrupted program when zooming into a specific program that was converted using the RM Converter utility.

***MySQL – bigint Type (QCR # 914119)***

The wrong value was displayed for fields defined as bigint(20) and set with 'Auto\_Increment' after activating 'View by key' on other index fields or just browsing on a table using Page+Up/Down or CTRL+Home/End.

***V9 Converter – Models (QCR # 914541)***

The allocation of models to the folders was not done properly after converting a V9 application with a Table control.

***Sort Window – Hungarian Language (QCR # 914545)***

The Sort window did not display the radio buttons for Unique and According to index options when using the Hungarian mgconst file.

***DB2 – Isolation Level (QCR # 915366)***

The DB2 isolation level did not work when the SQL information in the Database properties was set to SQL\_ISOLATION\_LEVEL.

***Oracle – NCHAR SQL Type (QCR # 916674)***

uniPaaS crashed after calling more than 50 times to a program that had a Link with an NCHAR SQL Type field.

***Functions – GetGUID() (QCR # 917182)***

The GetGUID() function returned a wrong result when the picture of the variable receiving the output was bigger than the length of the actual output returned by the function.

***Output Merge – Template File Error (QCR # 917256)***

An error was shown while trying to select a new tag for merge when the &lt; and &gt; were used in the Token Prefix and Suffix of the tags in a Merge form.

***Verify Operation – Revert Option (QCR # 918718)***

The wrong sequence of operations was performed when two Verify Revert operations existed, one with direction=Backward and the other with Combine, in a specific scenario.

***Subform Control – Non-Parkable (QCR # 920677)***

The Record Prefix of a parent task was executed after browsing through the records in a subform using the scrollbar when the Subform control was defined with the "Allow parking" and "Tab into" properties set to No.

***Rich Client – End Task Condition (QCR # 926815)***

An update made to a parameter sent to a called Rich Client program was not shown in the calling task when the End task condition of the called task was set to Before.

***V9 Converter – Char Set (QCR # 928099)***

The V9 Converter utility crashed when converting a specific data source that included a field defined with a Char Set of Unicode.

***Rich Client – Table Control (QCR # 928685)***

The current record was shown in a Table control that was inside a Subform control even if the record was no longer in the range. This occurred when the parameters sent to this program were changed and, as result, the data view included fewer records.

***Rich Client – Scroll Bar (QCR # 930374)***

The value of a Check Box control in a table was not saved when scrolling the table by clicking on the scroll bar area or using the mouse wheel.

***Call Program Operation – Program Number (QCR # 930761)***

The program number in the Call Program operation was not displayed properly when it was bigger than 4 digits.

***Screen Design – Expression Content (QCR # 931671)***

The display of a description of an expression was limited to a specific number of characters in several screens and hence was not shown properly even if the column in which it resided was wide enough.

***Windows – Splitter Child & Subform (QCR # 931747)***

A program defined to run in a subform was opened in a splitter area when the Window Type of the called program was set to Splitter Child.

***Execution – Linux Samba Server (QCR # 932168)***

The output screen was not displayed when running a newly created program for the first time on a Linux Samba server.

***Dual Monitor – Tooltip Display (QCR # 932494)***

The tooltip of an expression was shown on the wrong monitor when working with a dual monitor set up.

***Rich Client – Tab Control (QCR # 933092)***

The tabs of the Tab control could be changed even when a Verify operation of type Error was executed from a Control Verification logic unit.

***Tree Control – Images (QCR # 933255)***

The images of a Tree control disappeared when the Tree control was defined in a task running in a subform and the subform was made invisible and then visible again.

***Remote Execution – Windows 2008 Server (QCR # 933410)***

uniPaaS crashed when executing the uniRTE.exe on a Windows 2008 Server machine while uniPaaS was installed on another machine and the ini file included some specific settings.

***Environment – uniPaaS Shortcut (QCR # 933825)***

An error message appeared after starting uniPaaS with a command line parameter that contained the asterisk (\*) character.

***Rich Client – Subform Control (QCR # 933982)***

A value sent as an argument to a task running in a subform was not received properly on some scenarios when the subform was defined with the Is Cached property set to Yes and the picture size of the parameter was larger than 20 characters.

***Rich Client – Variable Refresh (QCR # 934042)***

The value of a variable that was initialized with the value of another variable was not seen after pressing the Page Down key when a Radio Button control was used in the form.

***Rich Client – Tree Control (QCR # 934143)***

The tree blinked when navigating between its nodes.

***Rich Client – Portuguese (QCR # 935663)***

Special characters were not displayed when the language and keyboard layout were set to Portuguese.

***PDF – Folder Security (QCR # 935829)***

The security settings of a folder were not assigned to the PDF file created in that folder.

***Browser Client – User-Defined Function (QCR # 936401)***

The Internet Explorer window was closed after running a Browser Client program when a user-defined function was used in an expression that was used as the value of an HTML control source file.

***V9 Converter – OS Command (QCR # 936715)***

V9Converter.exe crashed after converting a specific application that had special characters in the command of the OS command menu entry type.

***Logon Window – Startup Position (QCR # 936914)***

The Logon window was not set as centered to the MDI.

***Functions – Rand() (QCR # 937671)***

The output of the Rand() function sent as an argument to another program was not received correctly in a program called using the CallProgURL()function.

***Rich Client – Variable Change (QCR # 937704)***

The Variable Change event was not raised after assigning value to a variable, performing cancel and re-assigning the same value to the variable.

***Range – CndRange() Function (QCR # 937843)***

The range was not computed correctly when using the CndRange() function with a value that was updated in a parent task handler and contained the wildcard asterisk (\*) character.

***Vector – List Box Control (QCR # 937933)***

A Vector variable stored only half the characters of the Cell model size when the vector was used as a data variable of a List box control.

***Rich Client – Subform Control (QCR # 937965)***

uniPaaS crashed after clicking on a button on a subform task whose "Raise at" property was set to "Task in focus" and the parent task was defined with the Transaction Mode set to None.

***Rich Client – Copy & Paste (QCR # 938288)***

An incorrect value was displayed after copying and pasting a Unicode string in a Rich Client program.

***RM Converter – Log File (QCR # 938665)***

The log of the RM Converter did not show information from converted subtasks.

***Rich Client – Rich Edit Control (QCR # 939081)***

It was impossible to type a dot in a Rich Edit control when typing Hebrew text.

***Tools – Shortcut Keys (QCR # 939213)***

The shortcut keys assigned to the entries in the Tools menu did not work.

***Image Control – Color Depth (QCR # 939689)***

A bitmap image of 32-bit color depth did not display properly in the Image control.

***Logon – User Name (QCR # 940251)***

The logged in user name displayed was changed from capital characters to lower ones in a specific scenario where the logged in user was a Windows user and a language file was used.

***Functions – User Defined (QCR # 940282)***

Wrong data was displayed when a user defined function was used as an init expression of a variable and some real variables were used in expressions on the screen to display data.

***Rich Client – Subform Control (QCR # 940606)***

The uniPaaS Studio crashed in a specific scenario involving a Call to a Subform control, when the Call operation's Destination property was set to a value other than blank.

***Rich Client – Parallel Program (QCR # 940755)***

A parallel program called from a Main program handler was not executed in some scenarios.

***Context Menu – Combo Box (QCR # 940850)***

The context menu was not opened when assigned to a combo box attached to a Table control.

***V9 Converter – Table control (QCR # 941459)***

Some Table control properties were changed when converting a single program with a Table control from eDeveloper V9 to uniPaaS.

***Rich Client – Hypertext Button (QCR # 941893)***

Transparent color did not work for hypertext buttons.

***Checker – ActiveX Message (QCR # 942496)***

There was a spelling mistake in one of the ActiveX checker messages.

***Debugger – Variables Window (QCR # 942561)***

The Variables window in the Debugger did not show the variables of the calling program when debugging the called program.

***RM Converter – Select Program (QCR # 942892)***

The RM Converter did not remove the Select program from a control when the variable attached to a control also had logic defined in the Zoom event.

***Rich Client – Scandinavian Date (QCR # 943848)***

The wrong date was displayed in a handler when the Default Date was set to a zero date and the International Date mode was set to Scandinavian.

***Rich Client – Icon (QCR # 964377)***

An icon attached to a Rich Client window was not changed if a logical name was used for the Icon File Name property and that logical name's value was changed in runtime through an INIPut() function that was used with Force Write set to a 'FALSE'LOG value.

***Rich Client – Window Order (QCR # 964777)***

SDI windows did not remain on foreground after running a program that sent a Null value to a subtask called in a subform and the subtask called another program that called a Batch task in its Record Prefix logic unit.

***Version Control – Execution Rights (QCR # 969295)***

The ProgramHeaders.xml file was not updated after performing Get Latest Version of a project and hence included wrong references to the execution rights.

***Error Message – Record Has Been Changed (QCR # 971392)***

The text for the error message "Record has been changed by another user" was wrong, since the record could have been changed by the same user in another process, so the error message was changed.

***List Box – Multi-Selection (QCR # 973883)***

The Record Suffix logic unit was executed after parking on a multi-select list box even when no value was selected.

***List Box – Multi Selection (QCR # 975341)***

The variable attached to a multi-select list box did not get updated with the selected lines when the program was exited by pressing the Enter key.

***Subform Control – Endless Loop (QCR # 979221)***

uniPaaS entered into an endless loop when trying to exit from a program that only had a single Subform control.

***Version Control – Cross Reference (QCR # 981822)***

The Navigator pane switched to "Find Result" after entering into a program and changing the Navigator pane to show the Task Properties when using Version Control.

***Models – Stored As (QCR # 983661)***

The Stored As property was reset after attaching a model to a field, changing that property and detaching the model from the field.

***Control Verification – Force Exit (QCR # 984905)***

Control Verification was executed when executing a User event with Force Exit = Pre/Post Record Update.

***Rich Client – Proxy Server (QCR # 985281)***

The Rich Client program did not work if the first proxy server defined in the Internet settings' PAC file was wrong.

***Rich Client – Subform Control (QCR # 985934)***

The scroll bar of a Table control that was placed in a Subform control whose Tab Into property was set to No, could not be dragged.

***Rich Client – Block If (QCR # 987881)***

Operations defined after a Block If operation were executed twice when there was a nested Block If operation and a server-side operation was executed in the inner Block If operation.

***Rich Client – Tab Control (QCR # 988324)***

Some of the controls appeared in the wrong location at runtime when an expression was set to some of their properties and the controls were placed on a Tab control that had an expression for the Visible Layers List property.

***Functions – FileExist() (QCR # 988897)***

The FileExist() function returned different values when using a local or UNC path for a folder value.

***Parallel Programs – User Defined Function (QCR # 989215)***

Passing an argument to a program failed if the argument was sent by calling a user-defined function by expression and the called program was defined as a parallel program.

***Functions – XML (QCR # 990757)***

uniPaaS crashed after evaluating the XMLInsert() or XMLModify() function when the declaration line in the generated .xml file was missing.

***Functions – Cipher() (QCR # 990934)***

Invoking the Cipher function with the AES Encryption method crashed the Runtime engine if SpecialNullTerminateBlobs was set to Y.

***Variable Change – Empty Data View (QCR # 991728)***

The Variable Change logic unit on a non-data view variable was not executed after deleting the variable value defined in the Init property when the main data source had no data and the task was defined with the Allow Empty Dataview property set to Yes.

***Languages – Hungarian Version (QCR # 992744)***

The word “logging” was mistranslated in the Hungarian version.

***Printing – Print Preview (QCR # 992768)***

uniPaaS crashed when scrolling through the Print Preview screen, while the program created the preview of other pages, and there was a Blob variable involved in the print.

***Functions – RunMode() (QCR # 993097)***

The RunMode() function returned a wrong value when used in a Task Suffix logic unit in the Main program.

***Shortcuts – Hungarian Version (QCR # 993804)***

In the Hungarian version, there was a duplicate shortcut key in the operations combo box opened from within the task's Logic tab.

***List Box Control – System Events (QCR # 995797)***

The Ctrl+Home and Ctrl+End system events were not triggered the first time the keys were pressed on a List Box control whose Selection mode was set to Single.

***Rich Client – Table Control (QCR # 997566)***

No scrollbar was displayed in the table after performing View Refresh when there were records above the current record and only a few records below it.

***Functions – FileExist() (QCR # 998278)***

A wrong result was returned by the FileExist () function when it was used to check the existence of a subdirectory when the user did not have rights to the parent directory of that subdirectory.

***Rich Client – Rich Edit Control Events (QCR # 998869)***

The Rich Edit events did not work at all when used on a Rich Edit control in a Rich Client task.

***Range Clause – Copy (QCR # 998933)***

It was not possible to copy the entire text from the "Full Where Clause" area in the Range/Locate Window.

***Subform Control – Empty Dataview (QCR # 999003)***

uniPaaS crashed when clicking on a subform column to sort the data when the parent task was in Empty Dataview mode.

***Direct SQL – Statement Length (QCR # 999598)***

uniPaaS crashed after calling Oracle by Direct SQL and using an input argument to hold the SQL statement when the variable length was 2000.

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