Rocket U2 wIntegrate

Release Notes

Version 6.4.0

February 2016
WIN-640-ALL-RN-01

U2 wIntegrate v6

The release notes in this section provide information about changes in U2 wIntegrate v6.

U2 wIntegrate v6.4.0

Release Date: February 2016
These release notes provide information about enhancements and fixes in wIntegrate v6.4.0.

Enhancements and fixes in wIntegrate v6.4.0

The following issues were addressed in this release:

Issue number	Description	Component
UWIN-535	In this release the Telnet connectivity supports IPV4 and IPV6 addresses. You can specify an IPV4 address, an IPV6 address, or a host name. In most cases a host name is resolved into a single IPV4 or IPV6 address however it might be resolved into multiple IP addresses by DNS. These addresses might be any combination of IPV4 and IPV6. wIntegrate attempts to connect to up to five IP addresses. It uses the first one which responds regardless of whether it is IPV4 or IPV6. This change meant replacing the previous IPV4 code with new code which supports both IPV4 and IPV6.	Communications
UWIN-1320	Starting with this release, the wIntegrate monitor shows the client connection status.	Thin Client Deployment
UWIN-1709	When exporting data from the client to create records on the host, a maximum record size is applied. If a record exceeds this size a new record is started and the item name is appended with ".1" and then ".2, etc. The maximum size is defined in the WIN.PARAM.XX subroutine where XX represents the machine type, for example UV represents UniVerse Ideal Flavor. Generally the largest record which can be created on the host is 10mb, but in this release the WIN.PARAM.XX subroutines has been changed to allow records of up to 100mb on UniVerse and UniData. This is dependent on limitations imposed by the host.	File Transfers, Host Routines
UWIN-1955	Rocket R/Link is a secure online file sharing and managed file transfer solution that resides on your network. Starting in this release, the Query Builder can send newly created files to R/Link folders. Also scripting supports the R/Link API so you can build your own interfaces to R/Link functionality. Please see the *wIntegrate User Guide* for more information.	File Transfers

Issue number	Description	Component
UWIN-2067	This case is mentioned for information only. Users should see no difference in operation. Prior to this release, the applications were compiled with Microsoft Visual Studio 2010 (UWIN-873 in version 6.3.2). In this release, the compiler has been upgraded to Visual Studio 2015. Following best practices, we amended the code to remove any new warning messages. Developers and Support personnel should be aware that the application now uses Microsoft Foundation Classes (MFC) version 14.0. MFC provides the underlying functionality for the product. wIntegrate automatically installs into system folders any required MFC files that have not already been installed by other applications. Support personnel occasionally have issues when new versions of MFC are used. Some MFC issues with "side-by-side assemblies" might be fixed by downloading and installing the Microsoft Visual C++ Redistributable for Visual Studio 2015.	Third-party Tools
UWIN-2096	When you drag the corner of the terminal window to make the window larger or smaller, the font is automatically resized accordingly. This also applies to any line-drawing characters on the screen. In prior releases some of the line drawing characters were slightly incorrect at a small size. This issue has been resolved.	Character Screen
UWIN-2123	Starting with this release, the wIntegrate Server connects to the v6.4.0 Java client using only TLS v1.1 or TLS v1.2 for SSL connections between them.	Thin Client Deployment
UWIN-2124	Starting with this release, the wIntegrate Server connects to the v6.4.0 clients (wIntegrate Thin Client, Administrator and Monitor) using only TLS v1.1 or TLS v1.2 for SSL connections between them.	Thin Client Deployment
UWIN-2128	The SSL libraries have been updated to use the 1.0.1m version of OpenSSL. These libraries address problems with the FREAK CVE-2015-0204 vulnerabilities.	Communications
UWIN-2136	When wIntegrate is connected to a CentOS Linux Server some screens, such as manual pages, may be displayed incorrectly as some emulation escape sequences may not be handled properly. To resolve this, go to the wIntegrate option **Setup Terminal**, and change **Host Encoding** to **UTF-8**. This results in characters displayed by "man pwd" displaying correctly.	Character Screen
UWIN-2138	In this release, a new Basic subroutine, WIN.DBLOADSHOW, is available to load a dialog box into memory, and then display it. This is more efficient than using the two existing separate routines WIN.DBLOAD and WIN.DBSHOW.	Host Routines
UWIN-2155	The PCI DSS 3.1 standard requires that organizations processing credit card transactions must use the TLSv1.1 or TLSv1.2 protocols. In the wIntegrate Setup SSL dialog, the default protocol is now TLSv1.1. The older protocols SSL and TLSv1.0 are not permitted by the PCI DSS 3.1 standard but are still shown as options for backward-compatibility. If the SSL or TLSv1.0 protocols are selected, the program warns that they are considered insecure, and suggests using a different protocol.	Communications

Issue number	Description	Component
UWIN-2161	Prior to this release, when using SSH to connect to your host computer, any communication error would be reported as `Internal Error`. This same message was displayed under a variety of error conditions which made it difficult to determine the issue. In this release the message has been made unique for each type of error.	Communications
UWIN-2166	The **Setup Communications** > **Windows Sockets / SSH / SSL** dialog lets you choose a host from a drop-down list showing all the hosts you have previously connected to. Prior to this release the thin clients saved these lists to the wrong folder. They were saved to `My Documents` on the local PC. In this release they are saved to the `ProgramData\Rocket Software\wIntegrate Server\Users` folder on the machine where the wIntegrate Server is running, in the same way as other settings for the thin client.	Thin Client Deployment
UWIN-2177	Prior to this release, when using the **Find Next** button in the wIntegrate Editor, after selecting **Match case** and closing the **Find** window, wIntegrate would no longer match case, and would **Match whole word only**. This issue has been resolved.	Editor
UWIN-2192	Prior to this release, in the **Setup Character** dialog, users could select fonts that started with the **@** character. When a session was saved with these fonts, it did not display properly when reopened later. The **Setup Character** dialog has been updated to remove fonts starting with **@** as these should not be available in the dialog. This does not reduce the number of fonts available to the user as each one has an equivalent. For example: **@FangSong** and **FangSong**.	Interface
UWIN-2201	In prior releases, when using SSL to connect to the host, users might see the message `id=myserver-sha2,scr= °¬`. This was an internal message which should not have been displayed. It is now suppressed.	Communications
UWIN-2229	The wIntegrate Server runs as a service so does not have an interface of its own. The Administrator is the interface which sets the options for the wIntegrate Server. These options are stored in the Registry under `HKEY_LOCAL_MACHINE\SOFTWARE\Wow6432Node\Rocket Software\wIntegrate Server`. Prior to this release, any changes to the *MonitorEndSessionGroup* were not saved when they were changed in **Administrator** > **Options** > **Security**. This issue has been resolved, and the *MonitorEndSessionGroup* settings are now saved after closing **Administrator Options**. (Note that the *MonitorEndSessionGroup* was previously labelled the *Monitor End Group* in the dialog but this has been renamed to match the Key name.)	Thin Client Deployment
UWIN-2234	Prior to this release, an enhancement was made to the zmodem file transfer which resulted in slowing down transfers when data was being imported to a remote drive. This issue has been resolved. There is now no discernible difference between transfers to a local disk and a disk on a remote machine.	File Transfers

Issue number	Description	Component
UWIN-2249	In prior releases, when using `Run ImportFile` to import data from the host to the client in CSV format (Comma-Separated Values), any host fields larger than 255 characters were truncated to 255 characters. This has been resolved.	File transfers
UWIN-2266	Starting with this release, wIntegrate 6.4.0 is built with Microsoft Visual Studio 2015. This version of Visual Studio creates a dependency on the Windows 10 Universal CRT runtime environment. At the time of this writing, Windows does not install the file `api-ms-win-crt-runtime-l1-1-0.dll`, which is required by this platform. You may encounter an error that this file is missing. To correct this issue, run the latest Windows Update including the Optional updates. If you only install the Important updates, the issue will not be resolved.	Installation
UWIN-2268	The Editor has the ability to create and amend dialog box definitions in scripts and host Basic code. In prior releases, under some circumstances it might know a dialog was present in the code but was not subsequently able to find it. A crash occurred. This issue has been resolved.	Scripting
UWIN-2329	The Setup Printers dialog lets you choose a default printer for wIntegrate from a list of printers installed on your system. Prior to this release, the list of printers might be incorrect on a Windows Embedded Standard (HP t510) thin client system. This issue has been resolved by using a different internal method to retrieve the available printers. One result is that the printers are now displayed in alphabetical sequence, and the printer name is no longer appended with the connection type such as `LPT1` or `Ne01`.	Interface

U2 wIntegrate v6.3.7

Release Date: April 2015
These release notes provide information about enhancements and fixes in wIntegrate v6.3.7.

Enhancements and fixes in wIntegrate v6.3.7

The following issues were addressed in this release:

Issue number	Description	Component
UWIN-189	In v6.3.7, two new script functions, `Monitor` and `Monitors`, have been added. These functions return information about the monitor or monitors as specified by the option parameter. For more information about these script functions, see the *Client Scripting Reference* guide.	Scripting

Issue number	Description	Component
UWIN-464	Previously, the default wIntegrate session files used a custom font called IBSfont. IBSfont is a raster font created many years ago, and does not scale to larger sizes. Windows now uses TrueType fonts which are scalable and install differently than the older bitmapped fonts. As of v6.3.7, the wIntegrate session files now use Consolas by default. Consolas is fixed pitch, like IBSfont, which is necessary for terminal screens. As a TrueType font, it automatically scales to fit the newer large screens, whereas IBSfont can fill only part of these screens.	Terminal Emulation
UWIN-718	Support for SSH in wIntegrate is based on Putty. Putty supports KeepAlive, where a meaningless packet is sent periodically to the host to prevent it from closing the connection due to inactivity. Support of KeepAlive has been added to v6.3.7 of wIntegrate in SSH communications. If KeepAlive is selected in Setup > SSH Communications, you can enter the interval time in seconds to send the packets.	Communications
UWIN-735	In v6.3.7, the wIntegrate Editor can be integrated into a host source control system by using a custom EditCheck subroutine that you create on the host. This subroutine can be named anything that you want. It is called when downloading, uploading, and closing a file that is being edited on the host. For information about setting up the EditCheck host subroutine, see Appendix B of the *Client Scripting Reference* guide.	Host Routines
UWIN-1275	As of v6.3.7, the SSL libraries have been updated to use the 1.0.1j version of OpenSSL. These libraries address problems with the "heartbleed" and "POODLE" bugs, along with more general enhancements and issues concerning SSL.	Communications
UWIN-1291	In v6.3.7, a new style has been added to the GraphicButton control called GBS_CENTER. The GBS_CENTER style centers the image inside the button area. This disables the automatic scaling of images.	Scripting
UWIN-1292	In previous versions of wIntegrate, you can hide a row or column in the grid, but cannot test whether a row or column was hidden. As of v6.3.7, four methods have been added to the Grid control to allow testing of hidden rows or columns: ▪ GetColHidden ▪ GetColsHidden ▪ GetRowHidden ▪ GetRowsHidden	Scripting

Issue number	Description	Component
UWIN-1293	The grid supports the ability to hide rows and columns. In v6.3.7 you can now determine the first column or row visible and the number of rows or columns visible. Two properties, LeftIndex and TopIndex, have been added to the Grid control and return the column or row number of the first visible column or row in the grid. Two methods, GetVisibleCols and GetVisibleRows, get the number of completely visible columns or rows in the grid. Note that these new properties and methods are not supported in the Java Client.	Scripting
UWIN-1295	In v6.3.7, an executed script can reference variables in the script which executed it. The `Execute` script command now has two new options, L and R, which allow the script to reference variables in the script that ran the `Execute`. For more information about these options, see the `Execute` section in the *Client Scripting Reference* guide.	Scripting
UWIN-1318	The wIntegrate Monitor allows authorized users to see active user sessions in real time. In previous versions, a cosmetic bug existed where a client screen could be displayed after the session was closed. This issue has been fixed in v6.3.7 and the Monitor now properly blanks the client's session display when the client disconnects.	Thin Client Deployment
UWIN-1330	The wIntegrate Administrator is the interface to the wIntegrate Server, which runs as a service and so has no interface of its own. The Administrator can be run by the user on the machine that is running the Server or by remote users. It has a dialog to show all users logged in to the Administrator. In previous versions, the list showed the IP address and the user name of each user, but the user name was blank for a user logged in to the Administrator on the same machine which was running the wIntegrate Server. In v6.3.7, the Administrator user name is now populated as "Server machine."	Thin Client Deployment
UWIN-1752	In v6.3.7, wIntegrate Server error reporting for thin clients has been improved.	Thin Client Deployment
UWIN-1823	In v6.3.7, the host programs now use CRT instead of PRINT. CRT displays text on the screen regardless of PRINTER ON/OFF status.	Host Routines
UWIN-1894	In v6.3.7, dialogs can automatically scroll to the field with focus if the field is out of view on a large dialog with scroll bars. The "S" option has been added to the `DialogBox Option` command to allow scrolling to the control with the focus into view if it is not visible. The control must support the SetFocus event. If a control does not have this event in its list of events, it will not be scrolled into view. Any buttons, check boxes, and radio buttons on the dialog must include the BS_NOTIFY style. The Java Client uses a slightly different algorithm to move controls into view, so positioning after a scroll might be slightly different.	Scripting

Issue number	Description	Component
UWIN-1907	In previous versions of wIntegrate, the ComboBox control supported only three styles: ▪ CBS_SIMPLE, which displays the list box at all times ▪ CBS_DROPDOWN, which allows the user to pull down the list ▪ CBS_DROPDOWNLIST, which is an alternative version of CBS_DROPDOWN In v6.3.7, a new option, CBS_AUTOCOMPLETE, automatically shows the list as you type, displaying the first item which matches the text typed so far and adding the rest of the text to the edit box selected so it can be easily used or over-typed.	Scripting
UWIN-1915	A new example script, `SockControl.wis`, is installed in the `C:\Program Files (x86)\wIntegrate\Example\Script` folder. It shows how a session can send or receive data to or from a second socket connection.	Scripting
UWIN-1921	In v6.3.7, a new script command, `HotSpot ClickAction`, has been added that allows additional click actions such as Ctrl, Shift, and Ctrl+Shift on an existing hot spot. The host subroutine `WIN.HOTSPOT` has equivalent new options.	Host Routines, Scripting
UWIN-1923	In previous versions, a bug existed in the Report Wizard that caused it to reuse a cached report if you logged to a different account and the report ID was the same. This meant that the report from the old account was previewed after logging to the new account where a different report happened to have the same ID. In v6.3.7, this has been fixed, and the cache now uses the account name and port to ensure that the old cache is not reused in a different account.	File Transfers
UWIN-1958	As of v6.3.7, when you install the manuals using the custom option, you can search the entire documentation set by selecting Edit > Advanced Search in the PDF, or using Ctrl+Shift+F. The search will show results from every applicable PDF.	Documentation
UWIN-1962	A new optional flag HostCommandMapChars has been added to the terminal emulation text files in v6.3.7. This is optional for backward-compatibility. It defaults to Yes (the existing behavior). To prevent character mapping in script commands sent from the host, it should be set to No. This is relevant for users who select the Finnish, German, and Swedish language Extensions in Setup > Terminal. For more information, see the relevant .WIT files in the `C:\Program Files (x86)\wIntegrate\wIntSys\Wit_Ext folder`.	Host Routines, Terminal Emulation
UWIN-1969	In previous versions, the ADDS Viewpoint emulation did not properly display some graphics characters. This issue has been fixed in v6.3.7.	Terminal Emulation
UWIN-1970	In previous versions, the Wyse50 Viewpoint emulation did not properly display some graphics characters. This issue has been fixed in v6.3.7.	Terminal Emulation
UWIN-1994	In v6.3.7, the `WIN.SSUB2` sample service subroutine has been enhanced to show how to use a user's credentials to restrict importing and exporting data for specific files.	Host Routines

Issue number	Description	Component
UWIN-2001	When the vertical scroll bar was displayed, an occasional bug occurred that incorrectly displayed the scroll bar as being too wide, taking up over 50% of the width of the terminal screen. This bug was not able to be reproduced in-house, but a solution has been implemented that should prevent this bug from reoccurring. If you see this error, please report it and contact support.	Terminal Emulation
UWIN-2002	As noted in UWIN-464 above, the default session files now use the TrueType font Consolas instead of the previous IBSfont. In previous releases, when you used any font other than IBSfont, if you switched from 80 to 132 columns and then back to 80, your custom font choice was not respected. This bug has been fixed.	Terminal Emulation
UWIN-2005	As of v6.3.7, wIntegrate uses the 1.0.1j version of the SSL libraries. These libraries support SSL protocols TLSv1.1 and TLSv1.2. The new protocols are alternatives to the existing protocols SSL3 and TLS. The Setup > SSL Communications dialog has been updated to include these new protocol options.	Communications
UWIN-2021	In v6.3.7, the communication error messages have been improved and made more consistent. They are described in Appendix C of the *User Guide*.	Communications
UWIN-2052	A bug was reported in SSH communications that caused "[Internal error]" to display when using the wIntegrate thin client to connect and changing the parameters on the session between telnet and SSH a few times. This has been fixed in v6.3.7.	Thin Client Deployment
UWIN-2058	The wIntegrate Query Builder and Report Wizard can export data to Microsoft Word. When Microsoft Word's Object Model changed in the Office 2010 release, a new SaveAs2 method was added. In the Office 2013 release, the original SaveAs method was removed. This caused the Query Builder and Report Wizard export to Word to fail with Office 2013. In v6.3.7, the library `TSVlib.wis` has been changed to use either the SaveAs or SaveAs2 method depending on the version of Word. This library is used by both the Query Builder and Report Wizard, so both should now work with Microsoft Word 2013.	Scripting
UWIN-2061	In the v6.3.6 release, a new feature was added that created error logs whenever a script error occurs. Because script errors might happen frequently for developers, the `Documents\wIntegrate` folder would quickly fill with error logs, obscuring the meaningful files in this folder. In v6.3.7, the error logs have been moved to a dedicated folder, `Documents\wIntegrate\wIntError`, to resolve this problem.	Other
UWIN-2064	A memory leak of 24 bytes occurred when FTP attempted to connect to a server, but the connection failed for any reason. This has been fixed.	Scripting

Issue number	Description	Component
UWIN-2071	wIntegrate has always supported Active mode by default for FTP connections. This v6.3.7 release also supports Passive mode. FTP uses two ports – one for commands and one for sending the data. In Active mode, the client establishes the command port and the server determines the data port. In Passive mode, the client determines both the command and data ports. For developers, v6.3.7 has the related script command, `Ftp Connect2`, which opens an FTP connection to a remote FTP site. This command differs from the `Ftp Connect` command in that it offers more advanced connection options such as Passive mode. If Passive is set to True, this parameter will cause a Passive FTP connection to be opened.	Communications
UWIN-2072	In previous versions, when you were painting a dialog box with the wIntegrate Editor, double-clicking a common control might not have picked up styles or events previously set on the control. This issue has been fixed in v6.3.7.	Other
UWIN-2077	In v6.3.7, the wIntegrate licensing mechanism can support up to 65,000 users. In previous releases, the limit was 9,999 users.	Licensing
UWIN-2092	In the Windows thin client, the Setup > SSL Communications dialog now optionally supports tracing. You can choose to trace Basic, Detailed, or All communications. Tracing should be used with caution as the trace files can grow to any size on disk. Note that the tracing option only remains enabled for the duration of the connection with a wIntegrate Server. The next time you show the thin client login dialog, the tracing options will be set to None.	Communications

U2 wIntegrate v6.3.6

Release Date: July 2014
These release notes provide information about enhancements and fixes in wIntegrate v6.3.6.

Enhancements and fixes in wIntegrate v6.3.6

The following issues were addressed in this release:

Issue Number	Description	Component
UWIN-665	Attributes that are defined as MDn (numeric) can be listed to a HOLD file where they are shown right-justified. Using the Report Wizard to import the HOLD file and the Report Viewer to view the data, these numeric fields remain right-justified. However if the output target is PDF, the numbers were left-justified like all other text. In v6.3.6, the numeric fields are right-justified.	File Transfers

Issue Number	Description	Component
UWIN-710	When a script error is encountered, the Script Monitor appears. This is quite technical and most users simply dismissed it, so all of the information was discarded and developers lost the opportunity to fix the error. In the v6.3.6 release, the program automatically writes an error log text file to the `Documents\wIntegrate` folder when a script error occurs. The file name is `wIntError_YYMMDD_R`, where *R* is a rolling number to give the file a unique name in the event of multiple errors on that day. The error dialog now displays text saying that the error log has been written to the folder. Developers can replace the last line of the displayed text with a custom message displaying specific instructions, such as contact information for the Support department. The optional custom message is stored in the Application folder, usually `C:\Program Files\wIntegrate`. The file name is `ScriptErrorMessage.txt`. The message can be up to four lines on the error dialog.	Scripting
UWIN-729	In v6.3.6, you can display the full headings of imported data regardless of the field width that is specified in the dictionary item. From the Query Builder or **Run > Import File**, you can click the **Advanced** button and select the **Show Complete Field Headings** check box to show the full field headings.	File Transfers
UWIN-825	A new example script, `PDFView.wis`, has been created that allows you to open a PDF file and display it in a resizable dialog. It is in the `Program Files(x86)\wIntegrate\Example\Script` folder when you select Developer Additions during installation. This script requires Adobe Reader as well as the availability of the Adobe component `AcroPDF.dll`, which is installed with Adobe Reader.	Scripting
UWIN-1145	Previously, if you opened several wIntegrate Editor sessions, the Editor opened in the same spot on your screen, which made it difficult to see that multiple sessions were opened. As of v6.3.6, when you open several Editor sessions, the Editor opens slightly offset to the previous session.	Other
UWIN-1319	As of v6.3.6, the Monitor allows you to filter and sort the connections that are being viewed. Wildcards (*) allow you to filter based on user names, and you can also specify login date/times to sort by.	Thin Client Deployment
UWIN-1326	The **Server** tab on the wIntegrate Administrator now has a **Disconnection Timeout** option. This option is used when the recoverability option is not enabled on the **Recoverability** tab. If the **Disconnection Timeout** check box is selected, you can specify how long to keep a host session active after a client has disconnected unexpectedly, for example due to a broken WiFi connection. After this timeout period, the wIntegrate Server will close the server connection, possibly leaving host files or items locked. The allowable range of seconds is 30-86,400 (24 hours).	Thin Client Deployment

Issue Number	Description	Component
UWIN-1449	When wIntegrate was opened by an HTML web page using Automation, and the menu bar was hidden using JavaScript, the menu bar would disappear, but the underlying command bar would remain. There is no change to the product to prevent this, but there is a way to prevent it using JavaScript in the HTML web page: ```\nvar wIntApp = new\nActiveXObject("wIntegrate.document");\n ...\n // This makes the menu bar completely disappear\nafter being turned off\n wIntApp.Resize(wIntApp.Width\n + 1, wIntApp.Height + 1);\n```	Scripting
UWIN-1450	When wIntegrate was opened by an HTML web page using Automation to perform required operations and then closed, a dialog box appeared asking the user whether they want to save changes to wIntegrate. This dialog box no longer appears. This dialog box is not the same as the standard wIntegrate Confirm Exit dialog box. To prevent the Confirm Exit dialog box from appearing as well, the following JavaScript can be used in the HTML web page: ```\nvar app = new ActiveXObject("wIntegrate.document");\n session = app.Session;\n ...\n session.SettingsDialog = "SetupApplication";\n session.Setting("ConfirmExit") = "0";\n``` This JavaScript will change the setting for all wIntegrate sessions.	Thin Client Deployment
UWIN-1723	The wIntegrate documentation has been updated in v6.3.6. The content from the Administration Manual has been moved to the *wIntegrate User Guide* and a new guide, *wIntegrate Installation and Configuration*. All content and screen shots have been updated to reflect v6.3.6.	Documentation
UWIN-1747	In previous versions, the objects on `dbcolors.wis` and `dbstyle.wis` example dialogs disappeared when the virtual keyboard was used. This issue has been fixed.	Scripting
UWIN-1812	The `IsApp` script command checks if an application is running. It can be run from the U2 host with the `WIN.APP` subroutine. wIntegrate is a 32-bit application. In this release, when wIntegrate is running on 64-bit systems, it can see both 32-bit and 64-bit applications.	Scripting
UWIN-1852	A memory leak of about 160 bytes occurred on the wIntegrate Server every time a user session was closed. This issue has been fixed.	Thin Client Deployment

Issue Number	Description	Component
UWIN-1857	The following commands now have a new optional parameter that returns a success or failure flag: ▪ Ftp Delete ▪ Ftp DeleteDir ▪ Ftp CreateDir The new variable is optional for backward-compatibility with existing scripts. If the parameter is specified and the command attempt was successful, it will be set to "". If the command attempt was not successful, the variable will be set to an error message. If the parameter is not specified, then the current behavior remains where the script error dialog is shown on failure.	File Transfers
UWIN-1858	The wIntegrate Administrator lets you specify that Thin Client connections should be secured by SSL. In v6.3.6, if the SSL check box is selected, then an SSL certificate must be entered. There is a button to browse for certificates.	Thin Client Deployment
UWIN-1865	The **Spool File** option has been removed from the **Run** menu in wIntegrate v6.3.6. The option can be added back by uncommenting around line 90 in the `NewSess.wis` file in the `C:\Program Files\wIntegrate\wIntSys\Script` folder.	File Transfers
UWIN-1869	When wIntegrate was launched from a web page, using the **File > Save As** option caused wIntegrate to crash. This issue has been fixed.	Terminal Emulation
UWIN-1884	In v6.3.6, you can create an installation log by using a command line option that shows what files were installed and how the Registry was updated. For example, you can create a log for `Setup.exe` in the `C:\Temp\wint_install.log` file by using the following command line: `Setup.exe /v"/l*v \"C:\Temp\wint_install.log\""` The `/v` command causes parameters to be passed to the embedded `.MSI` files.	Installation
UWIN-1904	It is now possible to automatically terminate a thin client user session after a specified time. The **Server** tab on the Administrator's **Options** dialog now has a **Disconnection Timeout** option that is used when the recoverability option is not enabled on the Recoverability tab. If the **Disconnection Timeout** check box is selected, you can specify how long to keep a host session active after a client has disconnected unexpectedly, for example due to a broken WiFi connection. After this timeout period, the wIntegrate Server will close the server connection, possibly leaving host files or items locked.	Thin Client Deployment

Issue Number	Description	Component
UWIN-1911	The wIntegrate Editor now works with the Aldon LM(e) source control system, which means that you can perform common source control operations from within the wIntegrate Editor rather than using separate Aldon LM(e) applications. The supported operations include: ▪ Check out ▪ Check in ▪ Cancel check out ▪ Get latest version ▪ Add to source control ▪ Mark for deletion in source control ▪ Open a file from source control ▪ Check in files by task For more information about the supported operations, see "Using the Editor with Aldon LM(e) source control" in *wIntegrate Client Scripting Reference*.	Other
UWIN-1912	Prior to v6.3.6, the Editor was performing Replace All functionality incorrectly by replacing the text multiple times. This issue has been fixed, and Replace All functionality works as expected.	Other
UWIN-1933	The grid allows the developer to delete columns using the `DeleteCols` function. There was a bug where this function did not always delete the specified columns. This has been fixed.	Scripting

U2 wIntegrate v6.3.5

Release Date: April 2014
These release notes provide information about enhancements and fixes in wIntegrate v6.3.5.

Enhancements and fixes in wIntegrate v6.3.5

The following issues were addressed in this release:

Issue Number	Description	Component
UWIN-840	A new option, **Prevent Session Exit While Port Open**, has been added to the **Setup > Preferences** dialog box, on the **Options** tab. If this option is set, the user cannot exit the wIntegrate application unless the host session is logged out, and the connection is closed. This works in a similar way to the script `StopExit.wis`, which was not on the menus and was therefore difficult to set up for non-technical users.	Terminal Emulation
UWIN-851	`WIN.LOOKUP` displays a dialog box where you can select a line in a list box. Your selection is then returned to the controlling Basic program. In this release, a new routine `WIN.LOOKUPM` allows more than one line to be selected. See the *Host Subroutines Reference Manual* for details.	Host Routines

Issue Number	Description	Component

UWIN-858	In this release, you can store an Excel formula in a field in the multi-valued database. When the field is imported into an Excel file along with regular data, the formula takes effect and performs its calculations. We have enhanced **Run > Import File** and **Run > Query Builder** to support the `FORMULA(<dict_item>)` qualifier. This works in the same way the `NUMBER(<dict_item>)` and `TEXT(<dict_item>)` qualifiers, which force fields to be treated as a number or text respectively. You can try this by setting up the following dictionary item. (In UniVerse, `@NI` returns the line count of the currently displayed item, so the definition in line 0002 below results in `C1*D1` for the first line of data, and `C2*D2` for the second line, and so on.
	
	`ED DICT ORDERS ORDER.TOTAL`
	`0001: I`
	`0002: "C":@NI:"*D":@NI`
	`0003:`
	`0004:`
	`0005: 6R`
	`0006: S`
	
	Then run the following query in **Run > Import File** or **Run > Query Builder** to get the data into Excel.
	
	`SORT ORDERS CUST.NAME UNIT.PRICE QUANTITY FORMULA(ORDER.TOTAL) COL.HDR.SUPP`
	
	The result in Excel:
	
	▪ Column A has the item ID
	
	▪ Column B has `CUST.NAME`
	
	▪ Column C has `UNIT.PRICE`
	
	▪ Column D has `QUANTITY`
	
	▪ Column E has the `ORDER.TOTAL` formula multiplying Column C on the same line (`UNIT.PRICE`) by Column D on the same line(`QUANTITY`).
		File Transfers

UWIN-1142	There is a **Help** button in the Editor's **Tools > Preferences** menu. Clicking this **Help** button resulted in the error "Failed to launch help." This has been fixed.	Other
UWIN-1294	A new grid method `ResetToDefaults` sets the styles and controls of the data in a grid to the default values for the column or the grid for styles not set on a column. It does not change the displayed data. Defaults being the current default settings, which are set with `SetColWidth`, `SetColBackColor`, and so on.	Scripting
UWIN-1314	The **Run > FTP** dialog box has list boxes showing the files that are available for transfer between the client and the remote machine. Timestamp and size information is now shown for each file. The list boxes have horizontal scroll bars that disappear when the dialog box is resized. See UWIN-1539.	Scripting

Issue Number	Description	Component
UWIN-1372	The **Run > FTP** dialog box has list boxes showing the files that are available for transfer between the client and the remote machine. You can select multiple files by clicking each one individually. In this release, you can also select multiple files by clicking one file, then pressing Shift and clicking another file in the list.	File Transfers

UWIN-1431	The **Edit > Record** menu option lets you capture incoming data in various formats. One format is **Two-way**, which records both incoming and outgoing data. In previous releases, the two-way recording looked like the following example, where the arrows show the outgoing (<) and incoming (>) data:
	
	`< W`
	`> W`
	`< H`
	`> H`
	`< O`
	`> O`
	`> 1952 UV From myserver\davidr`
	
	The same recording now shows the following, which is much more meaningful. Between the five columns are not spaces, but tabs, which cause the data to be automatically parsed into columns when the data is copied and pasted into Excel. Also, the dates and times are in formats that are automatically understood by Excel. The third column is milliseconds:
	
	`2014-02-23 12:54:56 752 < W`
	`2014-02-23 12:54:56 814 > W`
	`2014-02-23 12:54:56 939 < H`
	`2014-02-23 12:54:57 001 > H`
	`2014-02-23 12:54:57 189 < O`
	`2014-02-23 12:54:57 251 > O`
	`2014-02-23 12:54:57 750 <`
	`2014-02-23 12:54:57 813 >`
	`2014-02-23 12:54:58 062 > 1952 UV From`
		Communications

UWIN-1497	`WIN.MSGBOX` or `WIN.MSGBOX2` are used to display messages. Under some circumstances, it was possible for incorrect data to be passed back to the input. The `WIN.GETDATA` routine had some code to prevent this from happening. We have added this code to `WIN.MSGBOX` and `WIN.MSGBOX2`.	Host Routines
UWIN-1539	Some users of the FTP dialog box had files whose names were too long to be viewed in the list box. The dialog box can now be dragged bigger and the list boxes are resized.	Scripting

Issue Number	Description	Component
UWIN-1727	Enhancements have been added to the Editor. ▪ On the **File > Open From Host** dialog box, there are now buttons to let you browse the host for files and items. ▪ When editing a Basic program, you can right-click a keyword and select **Help on Basic keyword**. This shows the same help as entering, for example, "HELP BASIC CRT" at TCL. When connected to UniData, the first character of each line was missing. This has been fixed. ▪ When using **File > Open**, the Editor remembers the extension of the last file opened unless the last file opened was "All Files (.)" Then the next time it defaulted to `.WIS`. It now remembers all files in the same way as other file types. ▪ This point is relevant if you are using the U2 / Aldon LMe integration for source control and lifecycle management. If you are logged in to an LM server, the status bar now shows the LM server and working folder.	Other
UWIN-1732	The `wIntJavaApplet.jar` Java client file can work as both a plug-in on a browser page and as a stand-alone application with a similar look and feel as the regular Windows version. When run as a stand-alone application, the user can drag a border or corner to cause the window to be resized, and an appropriate smaller/larger font is automatically selected. This works the same way in the Java client as the Windows version. When resizing the window, the Java client did not always snap to size correctly. It sometimes left a small black border on the right side or bottom of the window. This has been fixed.	Thin Client Deployment
UWIN-1746	There is a bug on Microsoft touch screens where right-clicks are not recognized in applications built with Microsoft Visual Studio 2010. This can be seen on the Surface Pro. By default, the right-mouse button displays the **Copy** menu. However, when the right-click is invoked in wIntegrate on the Surface Pro, the **Copy** menu is not displayed. Instead, it causes a <CR> to be sent to the host, and sometimes the clipboard contents also. In previous versions, the workaround was to assign the script `CopyMenu.wis` (which display the Copy menu) to a different key combination, for example Alt + R. In this release, we have implemented some code from Microsoft to fix the issue.	Setup and Configuration
UWIN-1765	In this release, all functionality is supported on D3.	Host Routines
UWIN-1773	D3 Enterprise Licensing is supported. Enterprise Licensing allows a single desktop computer to have several connections to a D3 server but consume only one D3 license. To use Enterprise Licensing, you must go to the **Setup > Communications** dialog box for either SSH or Windows Sockets (Telnet), display the **Telnet** tab, and select the **D3 Enterprise Licensing** check box before connecting to your D3 server. D3 Enterprise licensing is not supported with SSL connections. The local version, Windows thin client, and Java thin client all support D3 Enterprise Licensing in the same way.	Communications

Issue Number	Description	Component
UWIN-1778	The program already supports type-ahead within a single dialog box, which is essential for rapid data entry. The issue here is type-ahead between dialog boxes. For example, when entering an order, the user will pop up a dialog box to search for the product, choose one, and then expect to enter data in the main dialog box before the popup has disappeared. In this release, type-ahead can be carried from one dialog box to another; however, some conditions must be met. Type-ahead between dialog boxes only occurs from a parent dialog box to a child dialog box and vice versa. Also, the child dialog box has to be shown using one of the navigation keys set up for the parent dialog box, and both dialog boxes must use the same field-to-field navigation keys (for example, Tab or CR).	Scripting
UWIN-1782	In this release, all functionality is supported on mvBase.	Host Routines
UWIN-1783 UWIN-1784	New keywords have been added to UniVerse Basic since the wIntegrate host programs were written. Some of these perform functions dramatically faster than the existing code. For example, a customer reported that it was taking 40 minutes to build 45,000 rows of data and display them in a grid. We have now created new versions of some host programs to use the Basic CHANGE command (which was introduced after the original code was written). With the customer's example, the time taken was reduced from 40 minutes to 30 seconds. Four new routines have been added that use different Basic commands to convert characters. Testing showed that these routines are only faster for large amounts of data due to an overhead in starting up. So the current routines have been left untouched as to not adversely affect users of the existing routines. The new routines are: 1. `WIN.DBSETPRPL` This routine sets a property in a Windows dialog box. The existing routine is `WIN.DBSETPRP`. Time comparisons for 45,000 records with 6 fields: `WIN.DBSETPRP`: 949 seconds `WIN.DBSETPRPL`: 26 seconds 2. `WIN.DBGETPRPL` This routine gets a property in a Windows dialog box. The existing routine is `WIN.DBGETPRP`. Time comparisons for 45,000 records with 6 fields: `WIN.DBGETPRP`: 1708 seconds `WIN.DBGETPRPL`: 755 seconds 3. `WIN.SETLISTL` This routine changes the AM and VM delimiters in a variable to CR and TAB. The existing routine is `WIN.SETLIST`. Time comparisons for a record with 1,000 attributes and 100 values: `WIN.SETLIST`: 191 seconds `WIN.SETLISTL`: 5 seconds 4. `WIN.GETLISTL` This routine changes the CR and TAB characters in a variable to AM and VM delimiters. The existing routine is `WIN.GETLIST`. Time comparisons for a record with 1,000 attributes and 100 values: `WIN.GETLIST`: 505 seconds `WIN.GETLISTL`: 292 seconds	Host Routines

Issue Number	Description	Component
UWIN-1785	In the past, we supported most of the multi-valued databases. As we have not had access to many of these machines for several years, we are no longer able to support them. So in this release, the supported host machine types have been changed. The supported types are: ▪ GENERIC: vanilla multi-value/Pick ▪ AP: D3 ▪ MV: mvBase ▪ UC: UniData (P mode) ▪ UD: UniData ▪ UP: UniVerse (Pick flavor) ▪ UV: UniVerse (Ideal and Prime flavors) Support for mvBase is new in this release. The host programs for the removed machine types are still installed to the server in case anybody still wants them, but they are not visible in the interface. We will remove these programs in a future release when we have not had adverse feedback from customers about removing the options from the interface. The removed options are: ▪ GA General Automation (R91) ▪ IN IN2 ▪ MD McDonnell Douglas ▪ ME ADDS Mentor ▪ PI PI/Open ▪ PR Prime Information (Primos ▪ SQ Sequoia ▪ UL Ultimate	Host Routines
UWIN-1787 UWIN-1809	The Report Wizard is supported on D3 and mvBase. The Report Wizard lets you see host print reports as thumbnail views, then select one and download it to the PC in popular formats such as Excel. Until this release, the Report Wizard was only supported on UniVerse and UniData. It is now also supported with D3. In order to get this to work, we had to create a new host subroutine and enhance the script command `GetFromHost RawData`. For details see UWIN-1821.	Host Routines
UWIN-1788	The SSH communications dialog box accepts an IPV6 address for connecting to an IPV6 host. The dialog box has not changed. Note that Teredo tunnelling is not supported, so all of the network infrastructure must support IPV6.	Communications

Issue Number	Description	Component
UWIN-1800	Query Builder supports NUMBER, TEXT, and FORMULA qualifiers. The **Run> Import File** menu option has long supported qualifiers that force the data to be treated in a specific way regardless of the data or dictionary item. So NUMBER(*<dict_item>*) and TEXT(*<dict_item>*) force values to be stored in Excel as numbers and text respectively. For example, some part numbers look like large numbers but should be treated as text: `SORT PARTS BY PARTNO TEXT(PARTNO) PARTNAME PARTTYPE` In this release, UWIN-858 adds the ability for an Excel formula to be stored in a U2 field and transferred to Excel where it will perform calculations. The modifier is FORMULA(*<dict_item>*). In previous releases, the Query Builder did not support these qualifiers in the same way as **Run> Import File**. In this release, they are supported consistently.	File Transfers
UWIN-1821	This release supports the Report Wizard on D3 per UWIN-1787. The Report Wizard uses the `GetFromHost RawData` script command to trap incoming data. As D3 sends CR/LF pairs followed by a CHAR(0), we had to add an option to this script command to allow CHAR(0) to be stripped out. Please see the *Client Scripting Reference* for details.	Scripting
UWIN-1822	A new constant `ThinClientUserName` has been added. This tells developers the user name entered when the thin client logs in to the wIntegrate Server. It means the client can be personalized for different users. The example script `Const.wis` shows all of the constants. It has been updated to show the new `ThinClientUserName` along with the other constants.	Scripting
UWIN-1829	The **Run > Import File** or **Export File** dialog boxes can translate characters during the import or export. This is often used to handle differences between the delimiters in multi-valued data and the file formats required on the PC. By default, translation is only applied when importing or exporting to or from the ASCII file format, though it can optionally be enabled or disabled for all file formats. You can customize the translation settings by clicking the **Translation** button. In this release, the **Translation** button is disabled if the current settings in the dialog box prevent translation. This will help prevent confusion on when translation will take place.	File Transfers
UWIN-1841	The **Run > Import File** menu option imports multi-valued data into various formats. One of these formats is **Comma Quoted**, which is a comma-separated text file with all of the values in quotations. This is different to the **Comma Separated** format, which only has text in quotation marks and numbers are not in quotation marks. When importing into **Comma Quoted** format, if the last field in the line was null, then the CR LF was omitted from the end of the line. This resulted in two lines being incorrectly concatenated. This has been fixed.	File Transfers

U2 wIntegrate v6.3.4

Release Date: November 2013

These release notes provide information about enhancements and fixes in wIntegrate v6.3.4.

Enhancements and fixes in wIntegrate v6.3.4

The following issues were addressed in this release:

Issue Number	Description	Component
UWIN-435	Some of the older file formats have been removed from **Run > Import File** or **Export File** and **Run > Query Builder**, as follows: **Run > Import File** or **Export File**: ▪ Cardfile ▪ Ami Pro ▪ dBase ▪ Lotus 1-2-3 WKS format **Run > Query Builder**: ▪ Ami Pro ▪ dBase ▪ Lotus 1-2-3 5.0	File Transfers
UWIN-540	The `Learn` script is used to capture your login process, and then save it so you can log in automatically. You run it from the **Run > Script** menu option. It is in the `Program Files\wIntegrate\wIntSys\Script` folder. In this release, the login information is stored more securely.	Scripting
UWIN-723	The object model supports setting individual cells in Excel. This can be slow for large amounts of data. In this release, the VarType function supports passing two-dimensional arrays to Automation Servers such as Excel. Excel has a Value2 property, which sets multiple cells faster that setting them individually. To set this property, we have implemented support for two-dimensional SafeArrays in wIntegrate scripting. They are specified using the VarType function with the suffix "Array2". For more details, see `VarType` in the *Client Scripting Reference*. The host program demo `WIN.OBDEMO` has been modified to demonstrate setting the Excel Value2 property, if the wIntegrate version is 6.3.4 or greater. The host subroutine `WIN.OBVTYPE` has been modified to work with multi-attributed values.	Scripting
UWIN-734	The Editor has a one-click option to transfer the program you are working to the U2 host, and compile it. Any errors are shown in the Editor. You can double-click an error to go directly to that line of code. An unlimited number of errors can now be displayed.	Other
UWIN-737	The Editor repositioned to the first page after **Save To Host**. This has been fixed.	Other
UWIN-739	In the Editor, **Save To Host** moved the cursor to end of document. This did not happen every time, but once it did happen, it happened every time. This has been fixed.	Other

Issue Number	Description	Component
UWIN-839	The **Options** tab on the **Setup > Preferences** dialog box has a check box option to trim trailing spaces when copying data from the screen to clipboard. This dialog box now has an option to trim trailing spaces when pasting data from the clipboard into the screen.	Terminal Emulation
UWIN-849	The options for binary file transfer have been removed from the **Run** menu. They were Kermit, Xmodem, Ymodem. and Zmodem. They have been superseded by newer file transfer formats and we believe they are no longer required. The functionality is still in the product so they can be re-instated by custom scripts if needed.	Setup and Configuration
UWIN-1317	The Windows thin client did not pass certain control characters to the U2 server. In our testing, they were Ctrl+C, Ctrl+X, Ctrl+Z, and Ctrl+U. These characters are now passed to U2. The local version and the Java thin client did not have this problem.	Thin Client Deployment
UWIN-1380	The thin client deployment is a 3-tier model where the desktop has a thin client acting as a screen-and-keyboard interface to the wIntegrate Server on a central server. The user has to log in to the thin client before seeing the U2 server. As a service, the wIntegrate Server has no interface of its own. The Administrator lets you set the various options. In this release, the Administrator's **Options** dialog box has a new **Client** tab. This tab lets you set and configure a new Timeout option (in minutes). After the defined period of inactivity, the user will have to log in to the wIntegrate Server again, regardless of the connection status between the wIntegrate Server and the U2 host.	Thin Client Deployment

Issue Number	Description	Component

UWIN-1427	The program already supported multi-level properties for ActiveX objects; now it also supports multi-level methods. This script statement illustrates the issue. The relevant line that should work is:
	
	`* x = Dialog_0.Explorer.Navigate`
	`("http://localhost/MyGateway/Somesource/Gateway"`
	
	`==============================`
	`/* Dialog box Dialog_0`
	
	`DialogBox Create Dialog_0 0,0,545,261`
	`Caption "Dialog_0"`
	`Style WS_CAPTION|WS_POPUP|WS_VISIBLE|WS_SYSMENU|DS_MODALFRAME`
	`AxControl Explorer, "Shell.Explorer",17,9,382,242`
	`Pushbutton "Set value",Button_2,409,31,99,31`
	`EditText Edit_4,410,12,91,12`
	`Pushbutton "Get Value",Button_5,409,85,107,35`
	`Pushbutton "Navigate",Button_6,425,158,83,52`
	`ControlCommand Button_6,"Library '":ScriptFile:"';OnNavigate"`
	`ControlCommand Button_5,"Library '":ScriptFile:"';OnGetValue"`
	`ControlCommand Button_2,"Library '":ScriptFile:"';OnSetValue"`
	
	`EndCreate`
	
	`DialogBox Show Dialog_0`
	`DialogBox Delete Dialog_0`
	`EndScript`
	
	`Sub OnNavigate()`
	`x = Dialog_0.Explorer.Navigate("http://localhost/MyGateway/Somesource/Gateway"`
	`EndSub`
	
	`Sub OnGetValue()`
	`v1 = "id"`
	`val = Dialog_0.Explorer.Document.getElementById("customer_firstName")`
	`Dialog_0.Edit_4.Text = val`
	`EndSub`
	
	`Sub OnSetValue()`
	`Dialog_0.Explorer.Document.getElementById("customer_firstName").setAttributeDi`
	`EndSub`
	`==============================`
		Scripting

UWIN-1453	We have simplified and rationalized the licensing code. This item is mentioned for information only; users should see no difference in usage. This was required to enable any future enhancements that might be required. The mechanism is unchanged.	Installation
UWIN-1474	In the Editor, if an item contains CHAR(255), any data after that point is not saved to the host. This is perfectly reasonable as CHAR(255) is the U2 Item Mark used to delimited items. It follows that an item cannot contain its own delimiter. In this release, if you try to save an item to U2 that contains CHAR(255), a message is displayed, the save is abandoned, and nothing is saved to U2.	File Transfers

Issue Number	Description	Component
UWIN-1478	Rocket's Aldon product family supports lifecycle management, source control, and automated live deployment to the rigorous standards required by today's auditing requirements. The Editor has been enhanced to support the Aldon LM(e) source control repository. Separately, TCL commands are also available for UniData and UniVerse. As v6.3.4 is released, this new feature is still under development. In a nutshell, the Editor continues to let you edit, compile, and run Basic programs. Now, if the appropriate LM(e) component is installed on your PC, it will synchronize the U2 host with the LM(e) repository. In addition to the classic default PROGram type of item, the Editor can optionally read/write/synchronize DATA and DICT items. These are supported so LM(e) can automatically deploy these items to production environments. A new **Source Control** tab on the **Tools > Preferences** dialog box lets you turn on this feature and set some options. This tab is only operative if the integration component has been installed. Many users of the Editor will not use Aldon LM(e), and for these users, the Editor's functionality will remain unchanged. For more information about the U2 / Aldon LM(e) integration, please email U2askus@rs.com.	Other
UWIN-1489	The Editor did not format all comments correctly. The Editor recognized * as beginning a comment line but not ** or ! This has been fixed.	Other
UWIN-1501	The Editor did not indent new lines. Since updating the editing component in the Editor, a bug was introduced where the cursor would always go to the beginning of the next line after pressing CR. It now respects the indenting of the previous line, and indents the new line to the same column position.	Other
UWIN-1504	The following problems have been fixed in the Editor. ▪ The Format command did not recognize the syntax `LOCATE(THIS, THAT, POS) THEN`. ▪ When two panes were shown, the Bookmark icons in the toolbar did not respect Bookmarks in the lower pane. ▪ When saving a file to the U2 server, if the `WIN.SERVER` failed to start for some reason, the Editor would wait until the user pressed **Cancel**. It now times out and displays an appropriate message. ▪ Users could see the classic message "An unnamed file contains an incorrect path." This would appear if you created a new item on the PC, then tried to overwrite an existing item in U2, and clicked **No** at the Overwrite question. ▪ When editing a Basic program, clicking the **Tools > Compile and Run** option caused a spurious "End" to be sent to the host. ▪ When pressing Ctrl+F to search for a string, the program assumed that the user wanted to search for the word where the cursor was positioned. It now reuses the previous search string unless some different text is selected.	Other

Issue Number	Description	Component
UWIN-1505	In the grid, when you click on a cell and start typing text, the grid sends StartEditing and EndEditing events so the host program can control the logic flow and receive entered data. However, when clicking on a cell and pasting text from the clipboard, these events were not sent. It was therefore not possible for the host program to know whether the data in the cell has changed. This was a regression in the new grid introduced in 6.2.0. It has been fixed.	
UWIN-1517	When data was imported from U2 into the `.XLSX` format, large numbers could be corrupted by rounding. This has been fixed.	File Transfers
UWIN-1519	The user settings for wIntegrate are stored in the `My Documents \wIntegrate` folder. The first time that you run the program, this folder is created if it does not already exist, and its content is populated from `My Documents\wIntegrate` folders. (This is subject to custom modifications specified in the `winteg.wip` file.) If the wIntegrate folder is deleted from My Documents for some reason, the program is now more resilient in re-creating it and its contents.	Other
UWIN-1520	The **Options** tab on **Setup > Preferences** has an **Exit On Port Close** check box. This check box is disabled by default. It causes the program to exit (as in **File > Exit**) when the connection to the host computer is closed. When **Exit On Port Close** was turned on, the program could crash if a dialog box was shown. This might happen if you displayed the **File > Open** dialog box without logging in. The host would eventually time out and close the connection so the program would close. However, the **File > Open** dialog box was not closed properly and caused the crash. This has been fixed.	Other
UWIN-1534	The Editor has a menu option to compile the current BASIC program on the U2 host. After compiling the BASIC program, the Editor could send an unnecessary END to the TCL/ECL command prompt. This has been fixed.	Other
UWIN-1537	When we copy multiple lines of text from the screen, we normally insert a CR/LF at the end of each line rather than copy it as a single long piece of text. However, there are times when you might want to copy text without the embedded new lines. The **Edit > Copy Special To** dialog box now has a **Text Only** radio button. When copying to the clipboard using this option, spaces are trimmed, and CR/LFs are removed so multiple lines are joined.	Terminal Emulation
UWIN-1545	The 6.3.2 release introduced support for data transfer to and from the Excel `.XLSX` format. This would crash if the Translate option was used to change CHAR(255), the Item Mark, to another character. This has been fixed.	File Transfers
UWIN-1554	The Editor could crash when pasting from the clipboard. The Editor crashed when the following text was pasted into an empty script document: "NýýýýýýýýýýýÝýýýýýýýýýÝýýýýýýýýýýýýýýÝNý2ýýýÝ" Where the ý represents CHAR(253). This has been fixed.	Other

Issue Number	Description	Component
UWIN-1557	UWIN-734 describes an issue where the Editor could not handle more than a screen of host compiler errors. That issue was fixed by capturing compiler errors instead of displaying them on screen. This required a new script command `CaptureExec`, which uses `WIN.SERVER` to execute one or more statements and capture the output as one or more variables. See the *Client Scripting Reference* for details and an example. There is a new set of host programs that accept a statement and pass back the output. They are `WIN.CEXEC.`*xx* where *xx* is the machine name, for example UV or UD. We have created the `WIN.CEXEC.`*xx* routine for all supported machine types using known syntax, but some of these have not been tested as we do not have access to all these machines.	Scripting
UWIN-1658	Until this release, the Java thin client was built with Java 1.5. In this release, the Java thin client is built with Java 7 (sometimes known as 1.7). Users will need the Java 7 runtime environment to be installed. As Java 7 was released in July 2011, we expect users will have installed this version by now.	Thin Client Deployment
UWIN-1693	If the user folder in My Documents was not set up properly, the following message could appear: "Failed to open session file Documents\wIntegrate\Session\Session1.wic". Subsequently, running the Session Wizard and selecting the **Save Settings** option crashed the program. This has been fixed.	Other
UWIN-1698	The file transfer in XML format would hang of the file length was a multiple of 256 characters. This has been fixed.	File Transfers
UWIN-1707	In the **Setup > Application** dialog box, on the **Languages** tab, you can select **Chinese** as the language. The language takes effect the next time you start the program. If you selected **Chinese** in the 6.3.3 release, the next time you started the program, a message was displayed in Chinese and the program would hang. This has been fixed.	Setup and Configuration

Issue Number	Description	Component
UWIN-1712	The terminal emulation has been enhanced to support the "destructive" backspace key on all versions of AIX. To enable the destructive backspace, go to the **Setup > Terminal** dialog box and set the following: ▪ Select the Extension: **destructive_bs** ▪ Select the Backspace as **Delete(127)** Terminal emulators display characters as instructed by the host. So when you press a key, the host echoes it back. For example, if you press "a," the letter does not appear immediately. Instead it is sent to the host, which chooses to send the "a" back down the line where it is received and displayed by the emulator. Typically an emulator has no intelligence. So the backspace is normally "non-destructive." This means that when you press the backspace key (which **Setup > Terminal** lets you define as CHAR(8) or CHAR(127)), the host sends back three characters: ▪ CursorLeft ▪ A single space character " " ▪ CursorLeft For the user, this has the end result of wiping out the previous character and moving the cursor back one. You can see all this with the **Edit > Record** menu option using the **Control codes** format. AIX works differently. It uses a "destructive" backspace where only the single backspace character is echoed back. The host expects the emulator to perform the three steps of moving the cursor left, displaying a space, then moving the cursor left again. In this release, the program supports the destructive backspace as required by AIX. In order to support the destructive backspace, we added two new emulation commands: `RemoveSequence` and `DestructiveBackspace`. `RemoveSequence` removes a sequence previously added to the emulation. In the **destructive_bs** extension, it is used to remove the non-destructive backspace setting, so the `DestructiveBackspace` instruction can be added in its place.	Terminal Emulation
UWIN-1714	WARNING: We strongly recommend that you avoid using `wBond32.dll` for new development. `wBond32.dll` allows interprocess communication. It was originally written as the 16-bit `wBond.dll` and converted to 32-bit for the 1998 release. Today, you would use OLE Automation, which is much more comprehensive. In v6.3.2, we removed this DLL from the installed files. A customer has asked that we put it back.	Installation

Issue Number	Description	Component
UWIN-1717	The `WIN.EDIT` program supports PI/Open command-line arguments. `WIN.EDIT` is one of the supplied U2 Basic programs. It lets you invoke the Editor from the U2 TCL prompt using the syntax: `WIN.EDIT filename itemname`, for example, `WIN.EDIT WIN.PROGS WIN.DDE` In prior releases, this command line syntax was not supported on PI/Open. We have now implemented support for PI/Open.	Host Routines
UWIN-1718	The CD menu, installer, splash screen, and **Help > About** dialog box use a new blue constellation graphic.	Setup and Configuration
UWIN-1722	All wIntegrate version 6.3.4 applications are certified to work with Windows 8 on the Microsoft Surface Pro. This includes the local install version in addition to the wIntegrate Server and thin clients.	Other
UWIN-1725	When installing the product, you can select the **Developer Additions** check box to install files of interest to developers. For years, we have supplied sample applications that are written in Visual Basic. In this release, we have rewritten the sample Orders application in C# using .NET. You will find this in `Program Files\wIntegrate\Example\CSharp\CSOrders`. The folder contains an explanatory document. The program uses sample files/data installed by running the script `inst_dem.wis` in the `Program Files\wIntegrate\Host` folder.	
UWIN-1732	The Java client .JAR file can be used both as a plug-in on a browser page, and as a stand-alone application with the same look and feel as the regular Windows version. When run as a stand-alone application, you can drag a border or corner to cause the window to be resized, and an appropriate smaller/larger font is automatically selected. This works the same way in the Java client as the regular version. When resizing the window, the Java client did not always snap to size correctly. It could leave a small black border on the right side or bottom of the window. This has been fixed.	Thin Client Deployment
UWIN-1733	All wIntegrate version 6.3.4 applications are certified to work with Windows 8.1 on the Microsoft Surface Pro. This includes the local install version in addition to the wIntegrate Server and thin clients.	Other
UWIN-1735	All wIntegrate version 6.3.4 applications are certified to work with Windows 8. This includes the local install version in addition to the wIntegrate Server and thin clients.	Other
UWIN-1743	There was an error in the way the emulation tried to set the function and edit keys or the qvt119 emulation. This has been fixed.	Terminal Emulation
UWIN-1745	On some implementations of Windows, in the **Run > FTP** dialog box, the two lower list boxes could overlap the buttons beneath them. This has been fixed.	File Transfers

Issue Number	Description	Component
UWIN-1751	You can now use the Editor to edit dictionary and data items in addition to programs. There are three new host programs to explicitly open host items in the Editor with the required type of DICT, DATA, or PROG. These new programs are: • `WIN.EDDICT` *filename itemname*: Open the item from the file dictionary • `WIN.EDDATA` *filename itemname*: Open the item as a data item • `WIN.EDPROG` *filename itemname*: Open the file as a program (same as `WIN.EDIT`) Examples: • `WIN.EDDICT CONTACTS NAME` • `WIN.EDDATA CONTACTS JOHN.SMITH` • `WIN.EDPROG MYPROGS CONTACT.MAINTENANCE` For backward compatibility, `WIN.EDIT` continues to be supported as before. Also, if you open a file from the Editor using the **File > Open From Host** dialog box, you will now see a drop-down menu letting you choose one of the three file types. The file type determines available menu options, etc. File types were introduced in the Editor as part of the integration with the Rocket Aldon LM(e) product. They determine how items are stored, deployed and possibly compiled/cataloged during deployment to the live environment. They are also useful to users of the Editor who do not use LM(e).	Other

U2 wIntegrate v6.3.3

Release Date: March 2013
These release notes provide information about enhancements and fixes in wIntegrate v6.3.3.

Enhancements and fixes in wIntegrate v6.3.3

The following issues were addressed in this release:

Issue Number	Description	Component
UWIN-165	A user requested that the Editor should support lines of 32k. The new editing component that is introduced in v6.3.2 does handle lines of 32k in length.	Other
UWIN-648	Some changes to the licensing have been made in this release: • If the number of licensed users has been exceeded, no further users will be allowed. • We have enhanced the UserStat program, which shows users on the network.	Other

Issue Number	Description	Component
UWIN-729	When host data is imported to an Excel file, a customer requested that the column heading should be shown in full regardless of the length that is specified in the dictionary item. There are two places where data can be imported into Excel files. They are **Run > Import File** and the Query Builder. The newer Excel 2007 format `.XLSX` was introduced in the 6.3.2 release. ▪ In **Run > Import File**, importing to the new `.XLSX` format in Normal mode expands the columns to accommodate the full headings regardless of the length that is specified in the dictionary item. This is different to the older `.XLS` format, which the customer would have seen, where importing in Normal mode truncates the heading to the length specified in the dictionary item. ▪ In the Query Builder, importing to both `.XLS` and `.XLSX` format in Normal mode results in the columns being expanded to accommodate the full heading regardless of the length that is specified in the dictionary item. In both cases, Normal mode is set in the Advanced dialog box.	File Transfers
UWIN-850	A user reported that the program would close immediately after starting up. This was caused by a combination of two factors: ▪ The user was starting a saved session whose host was not available. ▪ The **Options** tab in **Setup > Preferences** had the **Exit Session On Port Close** check box selected. After trying and failing to connect to the host, the program exited automatically. In this release, the OnPortClose function is only executed if a successful connection to the host has been made.	Communications Terminal Emulation
UWIN-1146	A customer reported what looked like an error with data transfer in UniVerse NLS mode. In fact this was not related to NLS or multi-byte data, but a bug in the regular **Run > Import File** code. The error happened when the data contained a CHAR(128), which was incorrectly converted during an import, but only in the RawData file transfer format. CHAR(128) is handled differently to other characters because it is used for the Euro symbol. The other file transfer formats convert CHAR(128) to the Euro, but RawData does not, and this led to the issue. This has been fixed.	File Transfers
UWIN-1306	This is mentioned for information only; users will see no difference in operation. Every build and release of the program is checked with regression tests. A recorded user session created with a working version of the program is played against a newly developed version. The regression test tool then checks that screen displays and file outputs are the same. The tool that we have used for many years is no longer supported. We are now using a new tool, and have re-created all of the tests in the new tool. Many of the tests we use were supplied by customers, particularly for terminal emulations, where it can be impossible for the eye to detect incorrect displays. We are happy to consider adding further tests from customers.	Other

Issue Number	Description	Component
UWIN-1329	When deploying thin clients, the wIntegrate Server runs as a service. The service can be started and stopped by regular Windows utilities. We also supply the Service Control Program, which performs the same function. The Service Control Program has a button to start the Administrator, which shows logged in users and sets options for the wIntegrate Server. The Administrator has an option to connect at startup. If this option was turned off, and you started the Administrator from the Service Control Program, the **Connect At Startup** option would be turned on and saved that way. In this release, starting the Administrator from the Service Control Program will not change the value of the **Connect At Startup** flag. This is achieved by a new /AutoConnect option as a command line parameter for the Administrator.	Thin Client Deployment
UWIN-1387	Object Model crashes with a null return dispatch pointer. This concerns calling methods on the Microsoft Web Browser Control document property. It was possible to crash the program because the null return dispatch pointer was not handled properly. Although this is a coding error in the developer's script, the program should not crash under these circumstances. It now shows the Script Monitor in the expected way when this error condition occurs.	Scripting
UWIN-1398	The End User License Agreement is always shown during an initial installation. In the future, it will be shown during an upgrade when its terms have changed.	Installation
UWIN-1406	The following files are no longer installed because they are no longer required. ▪ `wIntDlg.exe` - Dialog Designer, now incorporated into the Editor ▪ `wIntDlg.chm` - Dialog Designer Help ▪ `wIntDlg.CHS.dll` - Dialog Designer, Chinese interface ▪ `wIntegCHS.HLP` - Chinese Help file. `HLP` files are no longer supported ▪ `vc8-re2001.dll` - was used by an old version of the Editor ▪ `SQL folder` - an unused SQL Builder interface similar to Query Builder	Installation
UWIN-1409	Version 6.3.2 introduced support for importing and exporting data in the Excel 2007 `.XLSX` format. This version of Excel supports large files with up to 1,048,576 rows. To test v6.3.2, we imported data to create `.XLSX` files of 2 MB and performance was in line with data transfers to and from other formats. However, when we tried importing 200,000 items, each with 20 attributes to create an `.XLSX` file of 21 MB, the transfer slowed down during processing. In this release, performance is greatly improved when creating `.XLSX` files larger than 20 MB.	File Transfers

Issue Number	Description	Component
UWIN-1410	While testing the v6.3.2 release on an early "RTM" version of Windows 8, we saw that the Windows thin client did not display the terminal screen properly when using the standard IBSfont. Characters were either partly displayed, or "smeared" across the display. This did not affect the local version, which worked fine. We cannot reproduce this issue on the shipping version of Windows 8, so no work has been done. Please let us know if you see any irregularities. Our standard font (IBSfont) is an old 16-bit raster font. This type of font was superseded long ago by TrueType fonts. We understand that support for raster fonts will diminish in future versions of Microsoft Visual Studio. The Consolas font that is bundled with Windows is a reasonable substitute for IBSfont, especially if you want a full-screen display on today's larger monitors.	Terminal Emulation
UWIN-1418	In some dialog boxes, there is an **Open** button that lets you open saved settings. Examples are **Run > Import File**, the Query Builder, and **Setup > Keyboard**. We have enhanced these dialog boxes so that the corner can be dragged to show more files. Also, a **Show Columns** check box lets you see the files in a more detailed view with date and time saved. You can click the column heading to sort by name or time/date. Users of the Windows and Java thin clients will see that the choice of folder has also been updated. By default, settings for each thin client user are stored in a personal folder on the server, which is specified in the dialog boxes as an "!" (exclamation mark). Alternatively, the user can choose to store settings on the local machine. The choice between these two options was previously represented by radio buttons. These radio buttons took some depth on the dialog box. In this release, just the active folder is shown. The user can choose the alternative from a drop-down menu, or click a button to browse for a different folder.	Setup and Configuration
UWIN-1423	In the Editor, when using **Edit > Format All** to format a script, some object properties were not correctly indented. This has been fixed.	Other
UWIN-1424	One of the characters in the supplied font IBSfont was not displayed correctly. This could be reproduced by running the `ChrSet2.wis` script in the `Program Files\wIntegrate\Example\Script` folder. With all of the characters displayed on screen, if the corner of the screen was dragged to resize the window, character 149 left "droppings" on the screen. The similar script `ChrSet.wis` also displays characters, but displayed all the characters properly. This was a strange issue with the display of a single character. It has been fixed.	Terminal Emulation
UWIN-1426	When deploying thin clients, the wIntegrate Server runs as a service and has no interface of its own. The Administrator is the interface for the various options and also shows logged in users. In the Administrator's **Options**, **Security** tab, you can associate functionality with groups of users authenticated by Windows Active Directory. One of these groups is the **Monitor End Group**, who can end a user session from the wIntegrate Monitor. There was a bug where any changes to the **Monitor End Group** setting in the Administrator were not saved or recalled properly. This has been fixed.	Thin Client Deployment

Issue Number	Description	Component
UWIN-1439	This case affects only thin client deployment. If a script takes a long time to execute, perhaps because it is stuck in a loop due to a programming error, the thin client now responds to user input such as clicking the **Exit** button to close the session. This response happens after a timeout has been triggered. The default timeout value is 10 minutes (600,000 milliseconds). In the unlikely event that value this needs to be changed, it can be done with a new Script Loop Timeout setting. Please see the *wIntegrate Administration Guide* for more information.	Thin Client Deployment
UWIN-1445	All wIntegrate version 6.3.3 applications are certified to work with Windows Server 2012. This includes the local install version in addition to the wIntegrate Server and thin clients.	Installation
UWIN-1452	The program would crash when attempting to display a tooltip longer than 80 characters. This applied to tooltips on any regular control in the dialog box, such as buttons. text boxes, and check boxes. However, the crash happened before the tooltip was displayed so it seemed very random. This bug has always been present in the product. The workaround in v6.3.2 and earlier versions is to reduce the length of tooltips to 80 characters or less. This is now fixed in v6.3.3. Tooltips longer than 80 characters are now truncated to 80 characters. The issue did not occur in very early versions. Note that the crash was reported as happening in `comctl32.dll`, one of the components of the Microsoft Foundation Classes (MFC) that the product uses. Initially this led us to suspect, incorrectly, an issue with the MFC installation. In the past, we have seen issues with MFC "side-by-side assemblies," which were usually fixed by uninstalling and reinstalling the product, or by downloading and installing the appropriate Microsoft Visual C++ Redistributable Package. However, in this case, the MFC installation was not at fault.	Other

Issue Number	Description	Component
UWIN-1463	In the Java client, clicking a menu option twice showed the Script Monitor. This applies only to thin client deployment, where dialog boxes are stored on the wIntegrate Server and transferred to the thin client on request. Further, it only applies to the Java thin client. When the user clicks a menu option or a button to display a dialog box, it can take a little while for the dialog box to be transferred from the server and appear. This is especially true on slow networks, or if the dialog box has not been shown before and so has not been cached on the wIntegrate Server. If the user gets impatient while waiting for the dialog box to appear and clicks the menu option or button again, the server tried to show the same dialog box twice. This resulted in the script error "The dialog box has already been shown," which is disconcerting for users. The Windows thin client does not have this issue because it automatically pauses until it gets a response. We cannot do the same in the Java client because it works differently. Two things have been changed: ▪ If a menu option is being executed, the Java client will not run another menu option until the first one has finished. ▪ If the user clicks a button a dialog box to show another dialog box, for example, **File > Open** in the Query Builder, then the button is disabled until the script triggered by the first script has completed.	Thin Client Deployment
UWIN-1464	Small integers in the range -255 to -128, and possibly -65535 to -32768 did not get sent by the wIntegrate Server to the thin clients correctly. This applied to both the Windows and Java thin clients. This bug could apply to anything that tried to send an internal message to the client that included numbers in the given range. This has been fixed.	Thin Client Deployment
UWIN-1466	The `DialogBox Panel` command now supports a divider that splits the dialog box into different areas. It is used to automatically position controls when the dialog box resized by dragging the border. We introduced this new parameter to address UWIN-1418 to show more information in the **File > Open** dialog boxes. To see an example, click the **Open** button on the **Run > Import File** dialog box. For syntax, see the `DialogBox Panel` script command in the *Client Scripting Reference Manual*.	Scripting
UWIN-1472	In the grid, if you click a cell and type text, the grid sends StartEditing and EndEditing events so the host program can control the logic flow and receive entered data. However, when clicking a cell and pasting text from the clipboard, these events were not sent. It was therefore not possible for the host program to know whether the data in the cell has changed. This was a regression in the new grid that was introduced in 6.2.0. It has been fixed.	Scripting

U2 wIntegrate v6.3.2

Release Date: October 2012
These release notes provide information about enhancements and fixes in wIntegrate v6.3.2

Enhancements and fixes in wIntegrate v6.3.2

The following issues were addressed in this release:

Issue Number	Description	Component
UWIN-62	The Editor uses a third-party component for the main editing window. This handles the text entry, syntax coloring, and so on. In this release, the Editor has been changed to use the Scintilla component, which is supported with Visual Studio 2010. There may be minor, inconsequential differences from the previous version. We believe that all functionality has been reinstated, but please let us know whether you see any discrepancies.	Other
UWIN-182	The **Run > Import File** and **Run > Export File** menu options create Excel files directly. These options now support the `.XLSX` format native to Excel 2007 and later. Spreadsheets in the `.XLSX` format support 1,048,576 rows where Excel 2003 was limited to only 65,536 rows. eCase 9941 in version 6.1.3 covered the need to update the version of the files created from Excel 4 format to Excel 2003 format. The Excel 2003 `.XLS` format is still supported for backward-compatibility. This issue does not affect the Query Builder, which imports data to a text file then uses OLE to tell the user's installed version of Excel to save the file in its own native format.	File Transfers
UWIN-184	The Query Builder now supports the Excel 2007 `.XLSX` file format. It is described in the dialog box as **Excel 2007**. The earlier Excel `.XLS` format is still supported as a separate option. It is now described in the dialog box as **Excel 2003**. Two technical notes: ▪ The new Excel 2007 `.XLSX` format creates the file directly. The Excel 2003 `.XLS` option continues to create the file by importing the data as a text file in tab-separated format, which is opened and saved as `.XLS` by your installed version of Excel. ▪ In previous releases, there was a single **Excel** menu option, but this single word no longer exists as an option. If you have saved queries with the **Excel** format, they will be converted at run time to Excel 2003, which is the new equivalent.	File Transfers
UWIN-724	The host subroutine `WIN.DBSHOW` displays a dialog box on the PC. In this release, the number of messages that are exchanged between the host and PC has been reduced. This gives a performance improvement of at least 30% and more on slower networks.	Host Routines
UWIN-738	The Editor could stop saving changes to the host even though the changes appeared to be committed to the local copy. This was reported by a user, but we were never able to reproduce the issue in-house. We have made substantial changes to the Editor on 6.3.0 (integrating the Dialog Designer) and now in 6.3.2 we have changed the editor component. We believe this issue should be fixed by these changes.	Other
UWIN-838	The host programs are installed using the `inst_pgm.wis` script. It creates a file `WIN.PROGS`, transfers the wIntegrate programs into this file, and then compiles and catalogs them. If `WIN.PROGS` already existed and you ran `inst_pgm.wis`, a spurious file that is named `ED WIN.PROGS MACHINE.TYPE` was created. The programs were installed to `WIN.PROGS` correctly but this file was left in place. This has been fixed.	Host Routines

Issue Number	Description	Component
UWIN-863	Since the 6.3.0 release, we have signed the executable .EXE files as coming from Rocket Software (UWIN-801). Signing is increasingly used to help with security with Windows and virus checkers. In this release, we sign all executable .EXE, .OCX and .DLL files.	Other
UWIN-866	A new grid was introduced in the 6.2.0 release. In the old grid, when focus was set to a cell that was not visible, the grid would immediately scroll to the cell, and show the text cursor in that cell. However, the new grid did not scroll to a non-visible cell until the user began to enter data. This has been fixed. We have also implemented the same automatic scrolling when a column or row is made active and not currently visible.	Scripting
UWIN-873	This case is mentioned for information only; users should see no difference in operation. Before this release, the applications were compiled with Microsoft Visual Studio 2008. (eCase 38813 in version 6.1.3.) In this release, the compiler has been upgraded to Visual Studio 2010. Other third-party controls included with the product have been upgraded as necessary. Following usual good practice, we amended the code to remove any new warning messages. Developers and Support personnel should be aware that the application now uses Microsoft Foundation Classes (MFC) version 10.0. MFC provides the underlying functionality for the product. wIntegrate automatically installs into system folders any required MFC files that have not already been installed by other applications. Support personnel occasionally have issues when new versions of MFC are used. Some MFC issues with "side-by-side assemblies" might be fixed by downloading and installing the Microsoft Visual C++ 2010 Redistributable Package.	Other
UWIN-1307	The Editor would crash if the item being edited had a single line with the three characters "ARP". This was fixed by the other changes we made to the Editor in this release.	Other
UWIN-1316	The Grid Font property was not selecting the correct font for all sizes. It was setting the font one size smaller than specified for some font sizes. This was caused by a rounding difference. This is fixed.	Scripting
UWIN-1334	In the `WIN.DBSET` host program in `WIN.PROGS`, line 58 was: `  LEN.LEFT = LEN.LEFT - C;` The trailing semi-colon has been removed. The semi-colon is a valid statement delimiter, but on some platforms, the compiler objects if it is not followed by a statement.	Host Routines

Issue Number	Description	Component
UWIN-1350 UWIN-1363	The supplied host subroutine `WIN.FTTOASC` converts data from the 7-bit file transfer format to ASCII. In v6.3.0, a regression error was introduced where this routine could truncate the converted data. This error happened as a consequence of UWIN-818, where the host routines were modified to support unlimited amounts of data. The `WIN.FTTOASC` routine is called by several of the supplied programs. Any of these programs might result in errors. The programs are: ▪ `WIN.PCREAD` ▪ `WIN.FTPREAD` ▪ `WIN.GETDATA` ▪ `WIN.PCREADAL` This has been fixed.	Host Routines
UWIN-1353	On a fresh machine that has never had a wIntegrate license before, when the licensing dialog box first came up, it defaulted to describing the "10 day evaluation license" with a date 60 days from today. The date that is shown should be 10 days from today. In 6.2.0, we changed the evaluation period of the regular CD-based version from 60 days to 10 days. We forgot to change the calculation for this display-only field. The incorrect date was only shown the first time that the dialog box was displayed on a fresh machine. It was not used in any licensing calculations. It now shows the date as 10 days from today.	Installation
UWIN-1355	Links to relevant web sites are shown in two places: the More Information dialog box on the **Help** menu and the Web Sites page in the readme that is shipped with the product. Two changes were made to keep the links up-to-date: ▪ The link to Support is now www.rocketsoftware.com/support. It was the U2 TechConnect knowledgebase, which has now been merged into the Rocket Knowledgebase. ▪ In the More Information dialog box, the link to the manuals is now www.rocketsoftware.com/u2/resources/technical-resources.	Other
UWIN-1359	All wIntegrate version 6.3.2 applications are certified to work with Windows 8. This includes the local install version in addition to the wIntegrate Server and thin clients.	Other
UWIN-1371	When using the grid property TrackHeight, the grid could show the top left cell as highlighted/selected until another cell was selected. This was a regression in 6.2.x and onwards compared with earlier versions. It has been fixed.	Scripting
UWIN-1376	This is mentioned for information only; users will see no difference in operation. An old executable `wBond32.dll` no longer needs to be shipped with the product. It has been removed from the installation. `wBond32.dll` was created some years ago for backward-compatibility with a 16-bit DLL used by Visual Basic. All this was superseded long ago by developments in 32-bit Windows and Visual Basic.	Installation
UWIN-1401	A ComboBox in a cell was left active when the cell was disabled. This was a regression in 6.2.x and onwards compared with earlier versions. It has been fixed.	Scripting

Issue Number	Description	Component
UWIN-1402	In the grid, pressing the Esc key did not generate a Cancel event. The Esc key was not recognized in the grid. As a result, when using an application created for use with 4.2, pressing Esc could cause the application to hang. This was a regression in 6.2.x and onwards compared with earlier versions. It has been fixed.	Scripting
UWIN-1408	When dual monitors were used, and the grid was displayed on the left-hand monitor, a drop-down control would appear on the right-hand monitor. This has been fixed.	Scripting

U2 wIntegrate v6.3.1

Release Date: July 2012
These release notes provide information about enhancements and fixes in wIntegrate v6.3.1

Enhancements and fixes in wIntegrate v6.3.1

The following issues were addressed in this release:

Issue Number	Description	Component

UWIN-1325	A customer reported the following issues when using Japanese Katakana characters with a UniData server:
	
	• Screens could be distorted with terminal emulation sequences visible on the screen.
	This happened because some of the multi-byte characters were being treated as separate characters and not as a multi-byte pair. This confused the terminal emulation processing. The cause was a timing issue. Characters received as part of a multi-byte sequence were sometimes not joined up correctly when the constituent bytes were received in different network packets. Perhaps this issue in wIntegrate was exposed by the way UniData does its communications.
	
	• When entering Katakana characters, a window automatically appears to let the user choose the required characters from a displayed list of options. wIntegrate required two extra keystrokes to choose the required characters compared with other Windows programs.
	When the user moves up and down in the window to choose the required characters, the currently highlighted string is displayed on screen. However, when a short string of characters was displayed, the trailing end of long strings was left visible. Full-width and half-width characters were affected.
	
	These issues are now fixed. If you want to use Japanese Katakana characters on a non-Japanese Windows system, you must set the **Host Encoding** field in **Setup > Terminal** to 20932. The **Host Encoding** field cannot be edited manually, and must be set programmatically. You can set the **Host Encoding** field with the following script statement:
	
	`Set HostEncoding = 20932`
	
	Alternatively, you can set Host Encoding in a host BASIC program as follows:
	
	`PRINT CHAR(27) : CHAR(1) : "Set HostEncoding = 20932" : CHAR(13) :`
		Communications

U2 wIntegrate v6.3.0

Release Date: December 2011
These release notes provide information about enhancements and fixes in wIntegrate v6.3.0

Enhancements and fixes in wIntegrate v6.3.0

The following issues were addressed in this release:

Issue Number	Description	Component
UWIN-176	The application icons have been updated. To meet current Windows standards, each icon supports various color depths and sizes, up to 256 x2 56 in 32-bit color (the "Extra Large Icon" size).	Installation

Issue Number	Description	Component
UWIN-597	When the GUI is controlled by host Basic programs, supplied subroutines such as `WIN.DBGET` and `WIN.DBEDGET` accept input from the client. When the user enters data in a field and presses the Tab key, the host application will normally validate the entered data; then, if the validation is OK, it will set the focus to the next field, and set the default value. Although this is done very quickly, the messages can erase user input for the next field if the user is typing very quickly. Three new programs, `WIN.DBGET2`, `WIN.DBFETCH2`, and `WIN.DBPOST2`, handle faster user input. They are updated equivalents of the original programs. There is also `WIN.DBEDGET2`, an updated version of `WIN.DBEDGET`, which gets data from multi-value edit controls. (For backward-compatibility reasons, we cannot make significant changes to existing programs so we created new ones.) The above programs are installed by the regular host program installer when you select the **Host API** check box. A new demo program `WIN.CUSTMD3` shows how these programs are used. It is on the `WIN.DEMOMENU` menu. To install `WIN.CUSTMD3` and `WIN.DEMOMENU`, run the demo `inst_dem.wis` install script in the `Program Files\wIntegrate\Host` folder.	Host Routines
UWIN-707	The copyright statements in the host Basic programs have been updated.	Host Routines
UWIN-723	The **Setup > Colors** dialog box has an **Advanced** tab. Users will rarely need to use this option. The layout of the options under the **Advanced** button has been improved. The group box of controls with the Bold/Reverse/Flash settings has been moved up. It now has the caption **Selected Attribute**.	Scripting
UWIN-728	SSH communications could hang when a lot of data came down the line from the server. The screen would freeze. After a minute or more, the session would sometimes free up and become usable again. We were able to reproduce this and fix it.	Terminal Emulation
UWIN-759	A new grid control was introduced with the 6.2.0 release. The SortColOnDblClick function did not always work. This has been fixed.	Scripting
UWIN-761	Users who enter times and dates in dialog boxes can now use the Tab and Shift + Tab keys to move between the elements of the date or time (for example, the month, day, and year; hours, minutes, and seconds). Previously, you had to use the Right arrow and Left arrow keys to move between these elements. This was inconvenient because it meant switching between the Tab and Arrow keys.	Scripting
UWIN-775	The Copy menu appears when you right-click the terminal screen. It has always had numerous options to copy to different formats and destinations, but not to or from the clipboard as text. We have now added two new options to the Copy menu that support simple copy and paste of text.	Setup and Configuration

Issue Number	Description	Component
UWIN-776	The wIntegrate Administrator application `wIntAdm.exe` is installed with the wIntegrate Server as part of the thin client deployment. Symantec Norton Antivirus mistakenly found a "Suspicious DLoader" virus in versions 6.2.x of `wIntAdm.exe` and quarantined it. The wIntegrate Administrator is written entirely by Rocket Software developers. It is a relatively simple program with no external code or binaries. The code is essentially unchanged from the earlier releases in which Symantec did not find a virus. We are not aware of any other antivirus applications reporting a virus in `wIntAdm.exe`. We submitted this false positive to Symantec. They have removed this detection from their virus definitions. We acquired a copy of Norton Internet Security and were able to verify that their virus definitions now allow `wIntAdm.exe` to work properly. We had the same issue in early 2010, mentioned in the 6.2.0 release notes under eCase 41429 / UWIN-69. We reported that false positive to Symantec, who removed the detection at that time, also. However, in the 6.2.0 release, the publisher of `wIntAdm.exe` changed to Rocket Software so presumably the 2010 white-listing was no longer effective. See also UWIN-801 below.	Other
UWIN-779	In the **Setup > Terminal** dialog box, the **Smart Input Conversion** check box lets you specify that Unicode characters should be converted to equivalents that can be pasted into the emulation screen. The smart quotes " and " copied from Microsoft Word are converted to ". The conversions are performed according to a table in the `InputMap.txt` file in the `Program Files \wIntegrate` folder. In this release, the single quote characters ' and ' are converted to '.	Terminal Emulation
UWIN-786	A new grid control was introduced with the 6.2.0 release. In the previous grid, it was possible for the developer to change the background color of the cell while the user was in the process of entering data into the cell. In the new grid, changing the background color took effect only on entering or leaving the cell. In this release, changing the background color also takes effect while the user is entering data.	Scripting
UWIN-787	A new grid control was introduced in the 6.2.0 release. Setting properties in the new grid with data was noticeably slower than the previous grid when the grid had thousands of rows. A customer noticed this when using the `SetRangeFont` command. In this release, the time taken to set properties has been substantially reduced. With earlier versions of 6.2.x, there are two workarounds to improve performance when setting properties for a large numbers of rows: ▪ Set the property for the entire grid instead of a range. This was not possible with the old grid. It can be done before or after the grid is populated with data and is much faster than the `SetRange` command. ▪ Use the new capability introduced in v6.2.2 to set the properties for an entire column - see UWIN-752 in version 6.2.2 release notes. The property should be set before the cells are populated. The command also works after the cells are populated but will not be faster.	Scripting

Issue Number	Description	Component
UWIN-788	In a U2 Basic program, the PRINT @(0) statement positions the cursor at the beginning of the current line. The ADDS Viewpoint terminal emulation sends the sequence \016\128, which was not being interpreted properly as wIntegrate was expecting \016\000. This issue has always been present. To correct this, a new CursorCode "B" has been created and used in the ADDS Viewpoint emulation. This is the same as CursorCode "A" except that an X coordinate of CHAR(128) is treated as column 0. The wIntegrate terminal emulation definitions are text files with the `.WIT` extension so a workaround was possible. The following line would intercept the relevant escape sequence and move the cursor with a script statement: `    TerminalCommand = "\016\128", "Display MoveX 0"`	Terminal Emulation
UWIN-789	The **Run > Import File** menu option lets you import host data into Excel 2003 format. (We intentionally support older file formats because these can be used by the greatest number of users.) In Excel 2003, the `.XLS` file format supports a maximum of 65,536 rows. In previous releases, **Run > Import File** let you create `.XLS` files with more than 65,536 rows. However, Excel opened these files with an error, warned that data would be lost, and displayed only 65,536 rows. In this release, when importing data with the **Run > Import File** menu option, the transfer stops with an error message after 65,536 rows have been written to the `.XLS` file. The newly created file is unreadable, but it is left on the hard disk as this is consistent with other failure processes. If you have optionally chosen to SELECT items before the transfer starts, and the result is more than 65,536, then a warning message is displayed. However, the transfer is allowed to proceed because you might have Translation parameters in place that reduce the number of rows to fewer than the number of host items. This does not apply to the Query Builder imports to Excel. This creates a text file with the `.TSV` extension (Tab-Separated Values), and uses your installed copy of Excel to open the `.TSV` file and save it in the native Excel format. For most people, this will be the `.XLSX` format in Office 2007/2010, which supports 1,048,576 rows.	File Transfers
UWIN-790	Version 3 supported a single "icon bar" and a single "base bar" (under the 80x24 emulation screen). Version 4 and later use different scripting syntax and support multiple toolbars above and below the emulation screen. The difference in syntax meant that users could experience script errors when combining old and new toolbars due to the way a library was loaded. The toolbar scripts have been changed to load the library at a different point in the logic. This allows old and new icon/tool bars to work together without modification.	Setup and Configuration

Issue Number	Description	Component
UWIN-794	The General icon bar has buttons to increase and decrease the font size. If the **SnapToSize** check box in Setup Application is selected, the resulting resized window should be automatically resized according to the new font size, and trim off any borders. In the Windows thin client, clicking the **Font Larger** button resulted in a black border at the right and left of the terminal window. This did not affect the local version, which worked fine. The code that calculates the font size and resizes the window was different in the thin client and the local version. Something was overlooked when we went through the process of sharing code between the two versions. Resizing the windows in the Windows thin client now works the same as the local version.	Terminal Emulation
UWIN-795	The **Edit > Copy Special To** dialog box lets you choose a format and destination for the **Edit > Copy Special** menu option. For convenience, this dialog box also has a **Copy Now** button, which does the same as the **Edit > Copy Special** menu option. The **Copy Now** button was always grayed out and never available to the user. This has been fixed.	Setup and Configuration
UWIN-796	A new grid was introduced with the 6.2.0 release. It had a bug where a crash would occur if the number of rows in the grid was reduced. This has been fixed.	Scripting
UWIN-797	A new grid control was introduced with the 6.2.0 release. In the old grid, clicking a cell fired two events - the ButtonClick and the CellClick. In the new grid, clicking a cell fired only the ButtonClick event. The grid has been changed so that clicking a cell fires both events.	Scripting
UWIN-798	A new grid control was introduced with the 6.2.0 release. The SetCellValue method did not work the same way. In the old grid, when a cell had been updated by the user and still had focus, the SetCellValue method would update the cell. In the new grid, the SetCellValue method did not update the cell. The new grid has been changed so the SetCellValue method can update the cell while it still has focus.	Scripting
UWIN-799	The Editor and the Dialog Designer have a Help icon on the far right of the toolbar. It is a question mark with a pointing arrow. The user can click this icon, and then click a menu option such as **File > Open** to see the context-sensitive help for that menu option. This feature had stopped working in the Dialog Designer and Editor. Instead of launching the Help topic, it displayed a message "Failed to launch help." This has been fixed.	Setup and Configuration
UWIN-800	The **Setup > Terminal** dialog box has a **Smart Input Conversion** check box. When selected, any entered characters are converted according to the conversion table in the `inputmap.txt` file. For example, Word's smart quotes are converted to simple quotes. The **Smart Input Conversion** check box was not being saved properly in the thin clients. It was always shown as turned off. This has been fixed.	Setup and Configuration

Issue Number	Description	Component
UWIN-801	The wIntegrate Administrator is installed with the wIntegrate Server as part of the thin client deployment. It is the controlling interface for the wIntegrate Server, which has no native interface because it runs as a service. Symantec Norton Antivirus incorrectly reports the wIntegrate Administrator (`wIntAdm.exe`) as a Suspicious DLoader virus and quarantines it. This has created disproportionate problems for some customers. See UWIN-776 above. To reduce the risk of an anti-virus program detecting another virus, we now sign the executable `.EXE` files as coming from Rocket Software.	Other
UWIN-803	A new grid was introduced with the 6.2.0 release. The ScrollToCell method worked slightly differently. The scrolling in the new grid has now been changed. This means that if the cell is already displayed, then the grid does not scroll at all. if the grid has to scroll because the specified cell is not shown, then the grid will scroll vertically. If the vertical scrolling does enough to show the cell, then the grid will not scroll horizontally.	Scripting
UWIN-804	The syntax of the `PDF BeginDocument` command allows an optional error parameter that should return the occurrence of an error and its type: `PDF BeginDocument `*`filename`*`, [`*`err_var`*`]` The error parameter was not working. It did not trap errors if the file could not be created, so the script was unable to react to the error condition. This has been fixed.	Scripting
UWIN-806	Scripting supports the ability to copy from the terminal screen to clipboard. A new command, `DialogBox CopyTo`, copies dialog boxes and their data contents. The syntax is: `DialogBox CopyTo `*`dlg_name`*`, `*`destination`*`, [`*`file_name`*`], [`*`scale`*`]` Available destinations are Clipboard, Printer, and File (as a bitmap with a user-specified file name). When the destination is Printer, the bitmap can be scaled. See the *Client Scripting Reference* for details. When sending the bitmap to the printer, the orientation can be set to portrait/landscape by using the PrinterOrientation global variable, as seen in the **File > Printer Setup** dialog box. There are some limitations due to the way this works. On the local version and the Windows thin client, some third-party custom controls may not be shown. Also, some Windows themes may not show all controls On the Java thin client, none of the dialog box furniture is shown, such as **Close** buttons.	Scripting
UWIN-807	Attempting to export an Excel spreadsheet to the U2 server could give a fatal error "Unable to read file from host." The error message was misleading because the file had been read successfully. The problem was that wIntegrate could not decipher the data. The wIntegrate code was failing to take into account a change in encoding for a single string that spanned two of Excel's internal record blocks. This has been fixed.	File Transfers

Issue Number	Description	Component
UWIN-809	The technical icon bar has a new icon that prints the current screen along with the current time/date. You can turn on the technical toolbar by right-clicking the icon bar area and selecting **bar_tech**. This runs the `bar_tech.wis` script in the `Program Files\wIntegrate\wIntSys\IconBar` folder. This toolbar now has a new icon with the tooltip "Copy Screen to printer with customizable text." This script creates a temporary PDF file with the current character screen inside a border, adds some text showing the date and time the file was created, and sends the page to the printer.	Scripting
UWIN-810	This is a significant new feature, simplifying the creation of host Basic programs that drive dialog boxes. The Dialog Designer, which paints dialog boxes, has been integrated into the Editor. Previously, the Dialog Designer and Editor were separate applications and could be used to edit the same script at the same time, which was poor practice. In this release, the Editor shows the script and the Dialog simultaneously. As a change is made in one window, it is automatically reflected in the other. The dialog box view is not displayed automatically – you click the **Window > New Dialog View** menu option to display the dialog box. The Dialog Designer is still installed with this release, but it will be removed from future releases. A tutorial is supplied describing how to use this new feature. Please see the document `Editor_Tutorial.doc` in the `Program Files\wIntegrate\Host` folder.	Host Routines
UWIN-811	The host routine `WIN.DBSETPRP` sets properties of controls in dialog boxes, including grids. Previously, `WIN.DBSETPRP` was not able to set variables larger than around 100 K. This restriction has now been removed. The routine will now handle data of any size. Note that this issue was caused by the way the host program transferred the data to the PC. The grid itself did not have this restriction.	Host Routines
UWIN-813	The `PDF BeginDocument` command has an optional error variable. If the developer chooses to use this, then any error should be returned to the variable. If the error variable is not used, then the error will be shown in the Script Monitor. However, when the developer chose to use the error variable, it was not being set when an error occurred. All errors resulted in the Script Monitor and the error variable was ignored. This has been fixed.	Scripting
UWIN-814	The SetRowHeight method sets the height of rows in the grid. It failed to set the height of the last row. This has been fixed. It was a simple error in the code.	Scripting
UWIN-815	The `PDF TableFormat` command is used to set the font for the title row of the table. The height of the row must be set before it can set the font, otherwise the headings disappear. If the height has already been set with the `PDF TableSettings` command, then `PDF TableFormat` works fine. In any case, we have modified the `PDF TableFormat` command to calculate the row height if this has not already been done with `PDF TableSettings`.	Scripting

Issue Number	Description	Component
UWIN-816 UWIN-817	Scripting lets you created PDF files. A customer reported an issue when using the `PDF BeginHeader` command. Please note that the `PDF DocumentSettings` command should be used before the `PDF BeginDocument` command; otherwise some settings may not take effect. The `PDF DocumentSettings` command has to set the header height before the `PDF BeginDocument` starts the document, otherwise it is ignored. The document settings apply from then on, so once they have been set, all future documents will pick them up.	Scripting

Issue Number	Description	Component
UWIN-818	A separate issue, UWIN-811, concerns restrictions on the size of data supported by the `WIN.DBSETPRP` routine. Having fixed this issue, we examined other host routines that pass variables from the host to the desktop. We discovered that most routines could not transfer more than 100k of data in a single variable. We have now removed any limits from the following 35 subroutines: • `WIN.ASSIGN` • `WIN.DBEDGET` • `WIN.DBEDSET` • `WIN.DBGET` • `WIN.DBGET2` • `WIN.DBGETM` • `WIN.DBGETPRP` • `WIN.DBINIPRP` • `WIN.DBLSTGET` • `WIN.DBMETHOD` • `WIN.DBSET` • `WIN.EVAL` • `WIN.FSCRIPT` • `WIN.FTPWR.UN` • `WIN.FTPWRITE` • `WIN.FTTOA.UN` • `WIN.FTTOASC` • `WIN.GETLIST` • `WIN.GETVAL` • `WIN.MLADDR` • `WIN.MLDELETE` • `WIN.MLFIND` • `WIN.MLNEXT` • `WIN.MLREAD` • `WIN.MLSEND` • `WIN.OBGETPRP` • `WIN.OBMETHOD` • `WIN.OBSETPRP` • `WIN.PCRAL.UN` • `WIN.PCREADAL` • `WIN.PCWRI.UN` • `WIN.PCWRITE` • `WIN.RSEXEC` • `WIN.SETLIST` • `WIN.SETVAL`	Host Routines

Issue Number	Description	Component
UWIN-819	The existing VT220 emulation defines 8-bit characters (above character 127) as emulation commands. This is a correct optional setting in the VT emulation, but it can conflict with accented characters in non-English languages. **Setup > Terminal** now shows a new emulation option of VT220-7bit. This is identical to VT220 but without the 8-bit characters. Adding this new emulation was the most backward-compatible way to support the 7-bit VT220 emulation.	Terminal Emulation
UWIN-821	A new grid was introduced with the 6.2.0 release. The PushButton was handled differently. In the new grid, double-clicking the PushButton turned the cell into an edit-text box, and let the user change the text. This was incorrect and has been fixed.	Scripting
UWIN-822	A new grid was introduced with the 6.2.0 release. There was a random bug where the font might not be set correctly or might change, perhaps when using the Grid ClearRange method. This was caused by code that reused font memory after a font had been released. It has been fixed.	Scripting
UWIN-826	If you ran a subroutine that has been cached from a script library, and another script unloaded the cached library while the subroutine was running, the script monitor appeared with an error such as "invalid start of statement." Somehow it did not crash the program. It is now possible to unload a cached script while it is running, and this will not cause any problems. This has been fixed.	Scripting
UWIN-827	Strings and possibly other types that are passed to wIntegrate in COM variants can use a BY_REF copy of the value passed in VB.NET. This is a reference to the variable rather than the value. wIntegrate did not expect this, so in most cases, it either ignored the value passed or reported an error. We checked all of the automation methods. The following ones could have caused a problem in this area and had to be changed: ▪ Session (CSessionCtrl) ShowDialog ▪ Session (CSessionCtrl) InvokeDialog ▪ HotSpots (CHotSpots) Add ▪ DisplayArea (CDisplayArea) Text	Scripting

Issue Number	Description	Component
UWIN-829	The wIntegrate Administrator is the main interface to the wIntegrate Server. It shows user login events and allows control over options such as logging and security. The Monitor shows end-user screens with real-time updates. It can also allow users to enter data into end-user sessions, similar to the U2 TANDEM command. Under each user's logon credentials, there are individual flags to permit use of 1) the Administrator, 2) the Monitor, and 3) the Monitor's keystroke entry feature. The Administrator can be used by any authorized user on the network. However, this feature can be disabled by clearing the **Remote Administration** check box. When **Remote Administration** is turned off, the Administrator can only be used on the server where the wIntegrate Server is installed. The Administrator cannot be disabled on the server. The Administrator Options dialog box now has two similar new check boxes that globally enable or disable 1) the Monitor generally, and 2) the Monitor's keystroke entry facility. Note that these two new check boxes take effect on all computers, including the one on which the wIntegrate Server is installed.	Thin Client Deployment
UWIN-831	The `UserStat.exe` application is optionally installed with the local version. It shows all wIntegrate users on the network. UserStat is now also installed with the wIntegrate Server. It is not added to the **Start** menu. It can be run from the `Program Files\wIntServ` folder.	Thin Client Deployment
UWIN-834	The program would crash when using the DialogBox ResetControls (option 0) call. It was caused by a clash in initializing and resetting a control that had been subclassed. We believe this bug was introduced in v6.0.1 when we introduced support for coloring the foreground and background of combo-boxes. This has been fixed.	Scripting
UWIN-835	A Trial version of wIntegrate can be downloaded from the Rocket U2 web site. This installer has the same features as the regular installer, but the evaluation period is different. The Trial version installer did not install the following five files: ▪ `C:\Program Files\wIntegrate\Docs\WhatsNew621_Summary.htm` ▪ `C:\Program Files\wIntegrate\Docs\WhatsNew621_User.htm` ▪ `C:\Program Files\wIntegrate\Docs\WhatsNew621_Developer.htm` ▪ `C:\Program Files\wIntegrate\Docs\WhatsNew621_Issue.htm` ▪ `C:\Program Files\wIntegrate\wIntSys\Script\SystemMenu.wis` This has been fixed.	Installation

Issue Number	Description	Component
UWIN-836	The Editor imports files from the U2 host using wIntegrate's standard Import File and Export File functions. After a file has been transferred, parameters for the file transfer are intentionally left in the various fields for possible reuse. Every process that wants to transfer files must clear these earlier parameters when appropriate. If the user used **Run > Import File** to populate an Excel spreadsheet with host data, and set some of the **Advanced** options, these parameters were not subsequently reset by the Editor. So when the user started the Editor and imported a host program for editing, these old parameters could prevent the file transfer. This has been fixed. The Editor now resets all of the parameters.	File Transfers
UWIN-841	The File Transfer Monitor is displayed when using Query Builder, Import File and Export File to transfer files between the host and PC. The File Transfer Monitor has a **View** button that toggles a panel showing small samples of the transferred data. The data shown in the Viewer is being duplicated in the display. This has been fixed.	File Transfers

UWIN-843	A customer needed to determine whether a text field in a dialog box had been edited by the user, regardless of whether the value in the field had been changed. This is possible with the WIN.DBGET subroutine. The following workaround is sufficient for edit fields using type-ahead. The host basic program controls where the focus goes after each field. The steps are as follows:
	
	1. Before setting the focus to the new edit field (edit1 on dlg1), clear the Modified flag and set a global variable to say it needs to be returned.
	
	    `ALL WIN.COMSUB("dlg1.edit1.modified=0;Global has_modified= true")`
	
	2. If it is not an edit field, set the global variable to say it does not have a modified field.
	
	    `CALL WIN.COMSUB("Global has_modified = false")`
	
	3. The key press for the navigation keys is then created in script to pass back the flag for the current field. To do this, replace the standard call when creating the dialog box:
	
	    `CALL WIN.DBKEY(DBX, ...)`
	
	with:
	
	    `DBX<-1>="SetKey Tab,`\mIf has_modified Then; mp=currfield:'.modified'; Mod`
	
	Where *Tab* is a navigation key (you will need to repeat this for each key).
	4. If the field is modified or is not an edit field, then the call to WIN.DBEVENT2 will return with EVENT = "K", CTRL.NAME = key name, and ARGS = 1. Otherwise, if it was not modified, then ARGS = 0.
	5. WIN.DBGET can then be called if the field needs to be retrieved.
	
	Further refinements can be made to this technique, for example, sending the value down at the same time or using cached scripts for the key code.
		Host Routines

Issue Number	Description	Component
UWIN-844	The grid is used by the Report Viewer, which is one of the destination options in the Query Builder. It is also used extensively buy developers who created custom applications with wIntegrate. Double-clicking on the column headings of the grid now detects the type of data in the column, and automatically sorts as follows: ▪ Text: left-justified ▪ Numbers with/without decimal places: right-justified ▪ Numbers with a single currency symbol: right-justified ▪ Dates and times: common formats and delimiters Four currency symbols are currently supported: ▪ $ - dollar symbol used in USA, Australia, New Zealand, etc. ▪ £ - pound symbol used in the UK and countries in the Middle East ▪ € - Euro symbol ▪ ¥ - Japanese Yen, Chinese Yuan	Scripting
UWIN-845	The grid is used by the Report Viewer, which is one of the destination options in the Query Builder. It is also used extensively buy developers who created custom applications with wIntegrate. You can double-click the column heading in the grid to sort the data by the contents of that column. You will find that sorting data now takes less time than before. We tested this with 20,000 rows.	Scripting
UWIN-846	A new grid was introduced with the 6.2.0 release. The new grid did not support dragging columns left and right, or rows up and down. This feature has been reintroduced with this release.	Scripting
UWIN-847	In this release, you can click, Shift-click and Ctrl-click either rows or columns to select them with the mouse. Selecting a new row of column replaces any existing selections. Selected rows or columns can be copied to clipboard and other destinations.	Scripting
UWIN-848	A new grid control was introduced with the 6.2.0 release. This grid did not support the date/time control type, which had been supported in previous releases. The date/time control is reinstated in this release. We have reimplemented the Set/Get Cell/Range Attribute to allow setting of date/time attributes. Also Set/Get Column Attribute can set attributes for a whole column. Please see the *Client Scripting Reference* for syntax. A new example script, `GridDate.wis`, demonstrates the use of this control type. It is installed into the `Program Files\wIntegrate\,Example\Script` folder when you select **Developer Additions** during installation.	Scripting
UWIN-853	A new grid was introduced with version 6.2.0. It lets you set the justification for a cell or column to Right or Center. When you entered a value in the cell, and then moved the focus to a field outside the grid (such as an edit box or push button), the justification for that cell was not applied to the value entered. This has been fixed. It now applies formatting/justification when focus leaves the control.	Scripting
UWIN-854	A new grid was introduced with version 6.2.0. Setting properties with, for example, the Grid.Colwidths property did not work beyond 128 columns. This has been fixed. It now sets properties for up to 65 K columns.	Scripting

Issue Number	Description	Component
UWIN-856	There was a bug in the DateTime control when years were shown with two digits. Increment or decrementing the date with the arrow keys or the spinner made the internal date invalid as store internally. This has been fixed.	Scripting
UWIN-857	In the grid, the ResizeRowToFit method sets the depth of the row to accommodate the text in the cells. The ResizeRowToFit method did not work correctly when the row had floating cells, where text is displayed in a single line across adjacent cells instead of wrapping in a single cell. It set the row depth too deep as though all of the text were displayed in one cell. This has been fixed. The ResizeRowToFit method now takes floating cells into account.	Scripting
UWIN-861	A new grid was introduced with version 6.2.0 release. There was a cosmetic display issue with horizontal scrolling. Suppose a grid has too many columns to display in a single view and the left-most columns (for example columns 1-10) are fixed in position. The other columns to the right can be scrolled left and right. When scrolling columns to the right everything worked fine. But scrolling back to the left caused the first of the fixed columns to flicker. This has been fixed.	Scripting
UWIN-864	Dates and times are entered as separate elements of day/month/year and hours/minutes. In the previous release, the user had to use the Tab or Arrow keys to move to the next element, for example 12<tab>23<tab>11. In this release, the FastEntry property causes the date/time control to move automatically to the next element during user input, so the user can now enter simply 122311. The FastEntry property defaults to On.	Scripting
UWIN-865	Here are some issues discovered in the grid. ▪ Custom column and row headings were not always shown because the GridSetRowRange function did not work properly. ▪ Double-clicking a column to sort it left the column selected. ▪ The ClearRange grid method could crash if used to clear column headings. ▪ The grid click and right-click events did not generate events when you clicked a row or column heading. ▪ When the old ActiveX GUID was used, the dialog box failed to appear. The program now automatically creates a new style grid if the control statement specifies this old GUID. ▪ The (X, Y) coordinates returned for cell clicks were relative to the window. In pre-6.2.0 versions, they 6.1.3 they were relative to the grid. This has been changed for backward-compatibility. All these have been fixed.	Scripting

U2 wIntegrate v6.2.2

Release Date: February 2011
These release notes provide information about enhancements and fixes in wIntegrate v6.2.2

Enhancements and fixes in wIntegrate v6.2.2

The following issues were addressed in this release:

Issue Number	Description	Component
UWIN-22	The Query Builder is an easy way to transfer host data to the desktop. Settings can be saved for reuse later. When saving settings, a **Browse** button shows a dialog box that lets you choose the folder where the settings will be saved. This dialog box was expecting the user to enter the file name for the settings, and saved the file immediately. Then, back in the main dialog box, the file would be saved again. This was confusing. The **Browse** button now shows a dialog box that simply lets you select the folder. It no longer expects nor allows the file name to be entered.	File Transfers
UWIN-211	The **Edit > Copy Special To** dialog box now has a new **Border** check box in the **Bitmap Options** section. When the **Border** check box is selected, a one-pixel black border is added when copying from the host screen to clipboard as an image.	Terminal Emulation
UWIN-591	Most of the developer information on wIntegrate is common to the Windows and Java versions. However, there is a small but growing number of points on development that are specific to the Java client. Examples include supported parameters in HTML files, and the ability to have pop-up or embedded dialog boxes. Currently, this information is scattered in various places and it should be brought together. As there is not enough material to create a new manual, the *Client Scripting Reference* has a new appendix that describes the differences in the Java client. Also, every command and function that works differently in the Java client is now documented accordingly.	Scripting
UWIN-716	In the **Setup > Communications**, SSL dialog box, selecting the **KeepAlive** check box should cause a meaningless packet to be set to the host periodically. This prevents the host from closing the connection due to inactivity. A setting in the Registry determines how often the KeepAlive is sent. However, turning on the option in the Setup SSL Communications dialog box did not cause the packet to be sent. In v6.2.1, we fixed a bug where the KeepAlive did not work for Telnet after opening a session with the KeepAlive turned on. However, it did work when you went into the dialog box and turned the flag off, then went back in and turned it on again. See UWIN-219. In SSL, it did not work under any circumstances. This has now been fixed. See UWIN-717 for details of how to change the KeepAliveTime from the default of two hours.	

Issue Number	Description	Component
UWIN-717	The **Setup > Communications**, SSL setup dialog box has a **Telnet** tab where you can select the TCP/IP KeepAlive function. When KeepAlive is selected, a meaningless packet is sent periodically to the host to prevent it from closing the connection due to inactivity. Selecting the check box activates the KeepAlive functionality that is built into the TCP networking functions. The dialog box now has a **KeepAliveTime** text box, which lets you set the number of seconds of inactivity before the KeepAlive packet is sent. Previously, the KeepAlive was the system default of two hours but this was too long for many users. The KeepAlive status and the KeepAliveTime can be configured differently for different sessions. The values are stored only in the session `.WIC` files so the Registry is not used.	Communications
UWIN-726	OLE Automation returns Time-Date values as floating point numbers. An error in the processing of floating point numbers meant that the number was being truncated, affecting the value of the time returned. The Fractional part was handling only 6 digits. It now handles 20 digits. This is fixed.	Scripting
UWIN-727	Scripting supports the floating point functions FAdd, FSub, FMul, and FDiv. An error in the processing of floating point numbers meant that the number was being truncated, affecting the value returned. The fractional part was handling only 6 digits. It now handles 20 digits. This is fixed.	Scripting

Issue Number	Description	Component
UWIN-732	Terminal emulators support "attributes" on the character screen such as Dim, Reverse, Flash, and Secret. The Flash attribute causes the foreground color to blink by disappearing and reappearing. This is the correct functionality and has been in the product for many years. In very early versions of the product, flashing was achieved by switching to a different character attribute. For example, if text was displayed with the ReverseFlash attribute, the flashing was achieved by adding/removing the "Secret" attribute. So the user saw alternating ReverseFlash and ReverseFlashSecret. This gave a very strong flashing effect as the background was also flashed. This functionality is now available again as an option, as follows. The **Setup > Colors** dialog box has an **Advanced** button that causes an extra part of the dialog box to appear. The Advanced part of the dialog box has been improved slightly. It is arranged in three groups, and it made sense to rearrange these. So the middle group has been moved to the top and now has a group-box caption of "Selected Attribute". The group with the caption "Version 3 Compatibility" was at the top and has been moved to the middle. To address this enhancement, the "Version 3 Compatibility" group now has a new checkbox Effect Flashing. When this check box is on/off, the Secret attribute is always on/off for flashing attributes. This is the same functionality as versions up to 4.x. It gives some flexibility as follows: Two examples with the screen attribute as ReverseFlash: ▪ With Effect Flashing turned Off (default, existing functionality) Assuming the ReverseFlash attribute is set to black text on a red background, only the black text will flash on and off. The background will always be red. ▪ With Effect Flashing turned On Assuming ReverseFlash is again black on red, and the ReverseFlashSecret attribute has been customized to show white text on a black background, the black text on red background will flash alternately with white text on a black background. This is much more visible and can be used to make on-screen information unmissable, which might be important, for example, in a 911 dispatch system. The Secret attribute color combinations can be customized as required.	Terminal Emulation

Issue Number	Description	Component

UWIN-740	Automation, previously known as OLE Automation, is the interprocess communication mechanism that is used by Windows COM applications. Previously, the program did not support automation properties that had a Locale ID (lcid) as part of their definition. Support for this has now been added, which uses the current system lcid automatically for this type of property.
	
	Sample code:
	<pre>* XLWorkBook is a previously obtained Excel workbook object
	Object set bip = XLWorkBook.BuiltinDocumentProperties
	Object set authorProp = bip.Item('Author')
	authorProp.Value = 'davidr'
	Object Release authorProp
	Object Release bip</pre>
	Here is how to run the same instructions from the U2 host using the `WIN.COMSUB` host subroutine rather than the usual automation subroutines.
	<pre>CALL WIN.COMSUB("Object set bip = XLWorkBook.BuiltinDocumentProperties")
	CALL WIN.COMSUB("Object set authorProp = bip.Item('Author')")
	CALL WIN.COMSUB("authorProp.Value = 'davidr'")
	CALL WIN.COMSUB("Object Release authorProp")
	CALL WIN.COMSUB("Object Release bip")</pre>
		Scripting

UWIN-741	Version 6.2.1 had a new host subroutine `WIN.MSGBOX2`, which displays a MessageBox with a large amount of text. This routine had a bug under certain circumstances. It has been fixed. As a temporary workaround, the user could: 1. Delete subroutine 100 (though it will not stop it working if it is left there) 2. Change the line: `TVALUE = "MapChars(":txt:")"` to: `TVALUE = "MapChars(":TVALUE:")"`	Host Routines
UWIN-742	The Listbox styles LBS_DISABLENOSCROLL and CBS_DISABLENOSCROLL are documented in the *Client Scripting Reference*, but did not work because the constants were not defined in the code. This has been fixed.	Scripting

Issue Number	Description	Component
UWIN-743	A new script function, U2mark, returns the current U2 mark characters for the current host encoding. The **Setup > Terminal** dialog box lets the user choose the Host Encoding. This converts characters between the encoding method used on the host and the Unicode encoding used internally by wIntegrate. In this release, a new option, **UVUTF-8**, has been added to simplify support for UniVerse NLS. The U2 system delimiter characters are usually 251-255. However, when UVUTF-8 is used, we have to use different characters to avoid duplication with real Unicode characters. When Host Encoding is set to UVUTF-8, we use the following marks internally: ▪ 255 (IM) - U+F8FF ▪ 254 (AM) - U+F8FE (also known as FM) ▪ 253 (VM) - U+F8FD ▪ 252 (SVM) - U+F8FC ▪ 251 (TM) - U+F8FB The new U2mark function help the user parse strings containing these characters, by returning the correct delimiter characters according to the host encoding. With UVUTF-8 host encoding, asking for the Value Mark will return U+F8FD. Similarly with Latin I host encoding, the VM will return 253. See the *Client Scripting Reference* for more information and syntax.	Terminal Emulation

Issue Number	Description	Component
UWIN-743	The **Setup > Terminal** dialog box lets the user choose the Host Encoding. This converts characters between the encoding method used on the host and the Unicode encoding used internally by wIntegrate. A new option UVUTF-8 has been added to simplify support for UniVerse NLS. In version 6.1.0, we added support for UTF-8, which is the standard encoding method for Unicode characters. UTF-8 is generally used by web-based applications. It is how UniVerse NLS stores data. However, there are some issues when using UTF-8 with UniVerse NLS because of the characters 254 (AM), 253 (VM), 252 (SVM), and 251 (Text Mark). These have a special functions as delimiters within UniVerse. We could have added special coding to handle the 254, 254, 252, and 251 characters automatically behind the scenes when UTF-8 encoding is active, but this might affect non-U2 users. So we have added a new Host Encoding type of UVUTF-8 specifically for use with UniVerse NLS. It works as follows. A Value Mark (VM) is character 253. With Host Encoding set to ASCII, character 253 is shown as a ý character (a "y" with an acute accent as seen when running the wIntegrate script `chrset.wis` in `Program Files\wIntegrate\Example\Script`). However, with UVUTF-8, we cannot use the ý character as this represents a genuine Unicode character. We could translate it coming in, but then it would be ambiguous and we would not know when to translate it going back to UniVerse. So internally we use the following characters: 255 (IM) - U+F8FF 254 (AM) - U+F8FE (also known as FM) 253 (VM) - U+F8FD 252 (SVM) - U+F8FC 251 (TM) - U+F8FB There is no visual representation for these characters, so they show on the wIntegrate screen as squares. To help the user parse strings containing these characters, there is a new script command `U2mark` that returns the correct delimiter characters according to the host encoding. So with UVUTF-8 host encoding, asking for the Value Mark will return U+F8FD. Similarly with Latin I host encoding, the VM will return 253. See the *Client Scripting Reference* for more information.	Terminal Emulation

Issue Number	Description	Component
UWIN-744	In v6.2.0, we introduced a new grid. Some issues were fixed in v 6.2.1; see UWIN-693. V6.2.2 has fixed more issues as follows: • The Checkbox did not work properly. • Turning off the column heading turned off the row "heading" (the leftmost column). • A column heading that appeared on one line in v6.1.3 might break into 2 lines in v6.2.1. This happened when the available space in the cell was fully occupied, and the way the text is measured in the new grid meant it might be one or two pixels too wide, and so would wrap onto the next line. But the row was set to display only one line of text, not two, so the text was hidden. Now in v6.2.2, if the text does not fit or wrap into the width and height that is available, it is clipped. This is helpful because the user can see that part of a word is missing. • Resizing the column heading depth with `ResizeRowsToFit` did not work. The `ResizeRowsToFit` command was not taking into account the gap at edge of cells. • When scrolling through the grid using the mouse and scroll bar, the grid display only changed after the mouse button was released. This was fixed by changing a simple internal flag that had not been enabled. • The check boxes have been moved up 2 pixels so they do not overrun the base of the grid. • The font setting is retained when the underline style is added. Previously, the grid changed to the different, default font when the underline style was added. • Setting the Data property to "" caused a blank row to be inserted. It is now ignored as in the previous grid. • Setting the drop-down ComboBox for individual cells caused problems. • The drop-down ComboBox could occasionally contain spurious characters in the text.	Scripting
UWIN-748	This item is reported for reference only. Visual Studio 2008 has a code analysis too. It finds potential errors in the source code that are not reported by the compiler. We ran this tool on the wIntegrate source code. As expected it found some "errors" that we fixed. On examination, as far as we know, they never caused problems. Even so this has been a useful exercise.	Other

Issue Number	Description	Component
UWIN-749	FOR/NEXT loops are now implemented in scripting. Previously, looping was achieved by LOOP/WHILE/REPEAT syntax. FOR/NEXT loops require less code, and are faster to execute than LOOP/WHILE/REPEAT because there is only one variable to evaluate every time around the loop. Syntax: ``` FOR <var> = <first> TO <last> [STEP <step>]... ``` Example: ``` For j = 10 To 1 step -3 * j will be 10, 7, 4 and 1 in turn Display Text "The value of j is " : j : CHAR(13) : CHAR(10) Next j ``` Full details are in the *Client Scripting Reference*. Note that the new "Next" command means that the word "Next" can no longer be used as a subroutine name within a script. This will report a script error. However the use of "Next" as a variable name continues to work as before.	Scripting
UWIN-752	Previously, the grid had to be populated with data before the cell properties could be set, including the properties SetColFont, ReadOnly, BackColor, ForeColor and Control, List, Float. This was awkward to code, and meant the grid could flicker slightly because the font/colors were initially set to the default values before the required values are applied. Also, every time a new row was appended, the required properties had to be applied to each of the new cells. In this release, you can set default cell properties for the entire column in the Init event of DialogBox OnDialogEvent / DialogBox InitCommand. This simplifies setting up a grid and adding rows. Setting properties for the defined range continues to be supported.	Scripting
UWIN-753	Scripting supports display of images in several popular formats. In v6.2.0, we changed some internal functionality that prevented TIFF images from being displayed. In this release TIFF images are supported again.	Scripting

Issue Number	Description	Component
UWIN-754	When data is sent across networks, it is split into packets, which are automatically joined together on the receiving computer. Rarely, for no apparent reason, we see issues where data has been lost. This can happen when changes are made to networking infrastructure, or when either the host or client computer runs very slowly. In the Serial, TCP/IP, and U2 SSL communications, we have implemented **Transmit Delay** and **Transmit Block Size** to slow down the communications. Transmit Delay is a number of milliseconds to pause between blocks of characters transmitted to the host. The larger the value, the slower communications will be. The default value is 0. Transmit Block Size box is the number of characters in each block transmitted to the host computer. The default value of zero specifies the fastest possible transmission, with no restriction on the number of characters in each block. The smaller the number, the slower the communications as a larger number of smaller blocks will be sent. The larger the number, the faster the communications will be.	Communications

Issue Number	Description	Component
UWIN-756	The build process creates both .EXE and .MSI files for each of the applications. Either can be used to install the product. Some customers want .MSI files so they can create custom installers, which can be particularly important when making an installer with pre-determined settings for a large number of users. In the past, we distributed .MSI files to customers on an ad hoc basis. In this release, they are included on the product CD in the `wInt\MSI` folder. They are not referenced on the CD menu. The files supplied are: ▪ `wIntegrate.zip` ▪ `wIntegrate_Server.zip` ▪ `wIntegrate_Client.zip` ▪ `wIntegrate_Administrator.zip` ▪ `wIntegrate_Monitor.zip` We do not supply a .MSI file for the Manuals installer. Zip files are created because along with each .MSI file there is a set of much smaller (around 50 K) .MST files with installers in different languages. For example, wIntegrate.zip contains the following files: ▪ wIntegrate.msi ▪ 1028.mst - Chinese, Taiwan ▪ 1029.mst - Czech ▪ 1031.mst - German, Germany ▪ 1033.mst - English, United States (default embedded in the executable) ▪ 1034.mst - Spanish, (Spain (Traditional) ▪ 1036.mst - French, France ▪ 1040.mst - Italian, Italy ▪ 1041.mst - Japanese ▪ 1042.mst - Korean ▪ 1045.mst - Polish ▪ 1055.mst - Turkish ▪ 2052.mst - Chinese, China ▪ 2070.mst - Portuguese, Portugal Support for non-English languages is generated by InstallShield, which provides the foreign-language text. This was implemented some years ago. It is not required to meet Rocket standards, but it is easier to leave in than take out.	Installation
UWIN-757	When a URL is displayed on the character screen, you can click it to automatically display the page in a browser. This is done by a script `Click.wis` in folder `Program Files\wIntegrate\wIntSys\Script`. Previously the script recognized URLs beginning with the text http and www. It now also recognizes URLs beginning with https.	Other

Issue Number	Description	Component
UWIN-758	This is a trivial item mentioned for the record. Following the recent grid bug fixes, we added some new grid tests to the automatic regression tests. One of these uses a menu that highlighted a small difference in the way the local version and the Windows thin client handle a script "error" concerned with menus. If a script attempt runs Menu Detach to detach the submenu from an invalid position on the menu (for example specifying position 3 for a menu with 2 items), then the Windows thin client treats this as an error and displays the script monitor. However the local version does not report this as an error and just continues. We have made the Windows thin client work the same way as the local version, so an error is no longer reported. This works like U2 Basic where you can DELETE a non-existent value from a dynamic array without an error being generated.	Scripting
UWIN-770	On the US keyboard, the key on the top left hand corner next to the "1" key represents the backquote and tilde characters, ` and ~ respectively. This key is one of the National Characters, which vary from region to region. The National Character numbers and the characters they represent can be seen on the **Key Definition** tab in **Setup > Keyboard** as part of the Alphanumeric keys, and also in the **Keyboard Display** tab. For example, the backquote key is shown in the United Kingdom keyboard as National12(`). This setting is correct for the United Kingdom keyboard, but on the US keyboard the backquote key should use National7. wIntegrate was using National12 for the backquote key in error. The US keyboard does not have a key assigned to National12. The consequence was that any custom settings for this key were not respected. This bug has always been present in the program. This has been fixed.	Terminal Emulation
UWIN-771	In v6.2.0, we introduced a new grid. The grid is used by the Report Viewer (as an output option in Query Builder), and as a copying option when right-clicking on the terminal screen. In the previous version of the grid, it was possible to select all cells by clicking the blank cell in the top left corner (where the column headings and row headings intersect). This feature was not present in the new grid. In this release, this feature has been re-instated.	Scripting
UWIN-773	Clicking the icon in the top left hand corner of the window shows the System Menu. We added two options to this menu - **Always On Top** and **Restore Menu**. The **Restore Menu** option lets you turn on the application File/Edit menus when they are not shown. This is an essential recovery feature for many users; however, developers of certain types of application want to turn off the File/Edit menus and prevent users from redisplaying them. This was possible in version 3.x. In this release, the **Restore Menu** option on the System menu runs a script `SystemMenu.wis` in `Program Files\wIntegrate \wIntSys\Script`. As shipped, the script restores the application menu as per previous functionality. Developers can customize this script as required to restrict or enhance functionality. If the `SystemMenu.wis` script is not present, then the menu is restored as per previous functionality. Otherwise, a script error would occur for those developers who customize the installer but fail to include the new file.	Setup and Configuration

Issue Number	Description	Component
UWIN-774	The wIntegrate Administrator is a front-end interface for the wIntegrate Server. It controls application settings and shows connection events. The Recovery tab controls how a disconnected thin client will reconnect to the wIntegrate Server. The **Auto End Session** parameter specifies the number of minutes after which the session will be terminated if the user has failed to reconnect. In previous releases, the default value for Auto End Session was zero, meaning that the automatic timeout was disabled. This value is better set to 30 as there is a separate check box to enable/disable the function.	Other, Thin Client Deployment

U2 wIntegrate v6.2.1

Release Date: October 2010
These release notes provide information about enhancements and fixes in wIntegrate v6.2.1

Enhancements and fixes in wIntegrate v6.2.1

The following issues were addressed in this release:

Issue Number	Description	Component
UWIN-35	The new SSH Communications in version 6.2.0 had a bug where not all characters were read from the input buffer and processed. This was a relatively rare and random issue. It was usually obvious to the user as a block of typically one or two hundred contiguous characters was lost so the screen display was corrupted. This has been fixed.	Communications
UWIN-39	When the screen was set to 132 columns, the Linux vi command used only 80 columns. The full 132 columns were used for other Linux commands such as ls and cat. Also, formatted U2 screens were displayed correctly in 132 columns. There is a fundamental difference between Telnet and SSL (which are communication protocols) and SSH (which is a shell). So, unlike Telnet and SSL, the concept of a terminal screen is embodied within SSH. This requires a slightly different approach in wIntegrate. The menu option **Setup > Terminal** lets the user set the screen size in columns and rows. In the session `.WIC` file these variables are: ▪ Columns = 80 ▪ Lines = 24 When SSH is in use, it has its own settings for columns and rows. We do not provide a user interface to these values. In the session `.WIC` file these variables are: ▪ TerminalWidth = 80 ▪ TerminalHeight = 24 In the 6.2.0 release, the values for TerminalWidth and TerminalHeight were always 80 and 24, regardless of values set by the user in **Setup > Terminal**. The program has now been modified so that the values from **Setup > Terminal** are picked up and applied by the SSH communications, but only when the connection is first made.	Communications

Issue Number	Description	Component
UWIN-43	In previous releases, the Administrator always connected to the wIntegrate Server on TCP/IP port 55639. The port that is used is now configurable to improve flexibility, and possibly to avoid contention with other products that might use the same port. The Administrator has a text box where the TCP/IP port can be changed. The wIntegrate Administrator has a new tab that allows the TCP/IP port used by the wIntegrate Server to be configured for the various client applications, including the Administrator.	Thin Client Deployment
UWIN-52	In previous releases, the Windows and Java thin clients always connected to the wIntegrate Server on TCP/IP port 55638. The port used is now configurable to improve flexibility, and possibly to avoid contention with other products that might use the same port. The wIntegrate Administrator has a new tab that allows the TCP/IP ports used by the wIntegrate Server to be configured for the various client applications. The thin client applications (the Windows thin client and the Java client) have a new **Advanced** button on the initial login page, which lets the user configure the TCP/IP port used by the client. As with other parameters, the TCP/IP port can be set as a command-line option. For example, for the Windows thin client the syntax to set the port to 56789 would be: `C:\Program Files\wIntCli\wIntCli.exe` -TCPIPPort 56789	Thin Client Deployment
UWIN-55	In previous releases, the Monitor always connected to the wIntegrate Server on TCP/IP port 55640. The port used is now configurable to improve flexibility, and possibly to avoid contention with other products that might use the same port. The Monitor has a text box where the TCP/IP port can be changed. The wIntegrate Administrator has a new tab that allows the TCP/IP ports used by the wIntegrate Server to be configured for the various client applications, including the Monitor.	Thin Client Deployment
UWIN-164	The *Client Scripting Reference* has been updated with an additional parameter that was not previously mentioned. This is the fifth parameter, the window state, of the Get(Window) function. The fifth parameter controls the Minimize/Maximize/Hide/Show property of the window.	Documentation
UWIN-167	Version 6.1.0 implemented connection recovery between the thin client and wIntegrate Server. So if the client drops the connection, the wIntegrate Server keeps the U2 session active, pending the reconnection of the client. However if the client never came back, the U2 session would stay active indefinitely. The wIntegrate Administrator now lets you specify the recoverability timeout for disconnected clients. The value is entered in minutes.	Thin Client Deployment

Issue Number	Description	Component
UWIN-181	The Heading and Footing fields in the Query Builder allows parameters such as D and L to be resolved as Date and Linefeed in the resulting report. These parameters can now be used when the target is the Report Viewer - this built-in grid is a much better way to view reports than the character screen. The program has now been modified to resolve the following parameters when the destination is the Report Viewer: ▪ D = current date ▪ T = current time ▪ L = line feed ▪ P = page number (always 1 in the Report Viewer as there is no concept of pages) ▪ F = file name Any justification for options P and F is ignored. Other parameters cannot be processed and are stripped out.	Scripting
UWIN-185	`WIN.MSGBOX`, `WIN.INFOBOX`, and `WIN.DBMSGBOX` are different ways to display text up to 150 characters in a message box. In this release, three new routines have been added to allow more text to be displayed. We have left the original routines unchanged for backward-compatibility reasons. The new routines are: ▪ `WIN.MSGBOX2` - displays a message box with optional response buttons ▪ `WIN.INFOBOX2` - displays text in an information box ▪ `WIN.DBMSGBOX2` - displays a message box attached to a dialog box In each case, these are new versions of existing routines with the same syntax with the difference that they allow large amounts of text in the message. The message size is effectively unlimited as it depends on the operating system and will fill the screen many times over. We have to impose a maximum length on the text as we cannot predict how customers will use this new feature. These new routines are documented in the *Host Subroutines Reference*.	Host Routines
UWIN-197	The wIntegrate Editor can open text files on a server and save to that server. When using FTP, the **Determine from Host** option makes the Editor get the directory path from the server. However, it did not resolve Q-Pointers correctly. It failed because the program tried to get the path from the VOC file definition. When a file is defined in the same account, the file path can be read from the VOC file definition, but this does not work with Q-Pointers. The Editor now uses the path to the file retrieved from the host to save the file (instead of the account name). This means it handles Q-Pointers.	Other

Issue Number	Description	Component
UWIN-212	Some characters are valid in UNIX file names but not Windows. Windows does not allow the following characters in filenames: \ / : * ? " < > An invalid character would cause FTP to hang when transferring files from UNIX to Windows. The program now alerts the user with a message if the path or file name contain characters that prevent its use with Windows. The user has to correct this before continuing.	File Transfers
UWIN-219	The **Setup > Communications** dialog box for Windows Sockets (Telnet) has a check box to enable the KeepAlive. This causes a meaningless packet to be sent to the server to prevent it closing the connection due to inactivity. Selecting the check box simply activates the KeepAlive functionality build into the TCP networking functions. Although the KeepAlive function worked properly immediately after selecting or clearing the check box, it did not work when starting a session that had been saved with the check box selected. This has been fixed.	Communications
UWIN-670	**Setup > Colors** lets you specify an image to use as background for the character screen. If the specified image file was not present when the program started up, an error was reported, and the interface initialization was not completed. We have changed the sequence of events at startup. A missing or invalid background image no longer causes an error.	Other
UWIN-686	Version 6.2.0 included a PDF file and code samples showing how to convert a character application to GUI dialog boxes. This is installed when the Developer Additions are selected during installation. The PDF file was incomplete. This has been fixed.	Documentation
UWIN-687	The wIntegrate Editor's **Edit** menu already has the options **Make Uppercase** and **Make Lowercase**, which apply to selected text. The **Edit** menu now has a new option called **Toggle Case**. This reverses the case of selected characters between upper/lower case, and lower/upper case. The shortcut key is Ctrl T.	Other
UWIN-690	Version 6.2.0 used a new grid control. The default row height was deeper than in the previous grid. This meant that fewer rows are displayed in a given space than before. We have adjusted the default font so that it takes the less depth.	Scripting
UWIN-691	The wIntegrate Editor can upload/download files from the U2 server using FTP. It automatically distinguishes between Windows Sockets and SSL to establish the host name. It should also recognize when SSH is in use and derive the host name there when necessary. The Editor now recognizes and distinguishes between Windows Sockets, SSL and SSH to derive the host name for FTP file transfer.	Scripting

Issue Number	Description	Component

UWIN-692	The wIntegrate Editor can now open multiple programs from the U2 command line, or from a desktop shortcut. The items are opened as multiple windows in the same Editor session.
	
	From the host, the syntax is:
	
	`WIN.EDIT  Filename  Item1  Item2  Item3  etc...`
	
	On the PC, the syntax is:
	
	`winedit.exe  -session  mysession.wic  -file  WIN.PROG$  -item  MYPROG1  -item`
	
	So the user can create a desktop icon that opens multiple items. Note that the specified session must be at TCL in the correct account for the programs to be imported.
		Other

Issue Number	Description	Component
UWIN-693	In v6.2.0, we implemented a new grid control, replacing a grid that had been in use since wIntegrate 98. Due to differences between the two grids, the new grid lacks some functionality in the previous grid. This release fixes some bugs and adds some new features: ▪ Floating cells. Data overlaps into the next cell if the next cell is empty. ▪ Automatic wrap. Text in headings wraps onto more than one line ▪ Cell borders. You can now add a border to the grid to distinguish the headings. ▪ Radio buttons. Cells mow support radio buttons in addition to check boxes and push buttons. ▪ Setting the Row Height could cause a script error. This has been fixed. ▪ The ModifyCell event is supported. ▪ HideRows caused an error. It now allows the use of row 0 to hide row headers. ▪ HideCols caused an error. It now allows the use of column 0 to hide column headers. The following heading display issues were fixed. (Note that their grid does not have a real heading, it is just a group of cells painted to look like headings). ▪ The default row height has been changed. ▪ The column width is calculated differently (rounding errors). ▪ Floating cells (spanning cells) would not overwrite more than one column. ▪ Floating cells were being displayed a few pixels too low ▪ Justification was set for the whole column. ▪ Justification by cell has been reinstated. ▪ When two grids are positioned adjacent to each other, for example when one has a simulated heading, they now clip each other in a different way. Grid lines did not show as the lines of the grid were the same color as the cell background. The grid lines are now mid grey (128,128,128) so they are visible. ResizeRowToFit did not take into account wrapping in column headers. We also fixed this for normal cells, and made it so normal cells now always wrap text. Column headers did not take into account justification from ColWidths command.	Scripting

Issue Number	Description	Component
UWIN-694	A customer reported that some characters were not displayed properly when the `France.wit` Extension was selected in **Setup > Terminal**. The `France.wit` terminal extension has been changed as follows. Old settings: ▪ MapTable = "@", "\226", "[", "\176", "\\", "\231" ▪ MapTable = "]", "\167", "^", "\238", "`", "\244" ▪ MapTable = "{", "\233", "|", "\249", "}", "\232", "~", "\234"  New settings ▪ MapTable = "@", "\224", "[", "\226", "\\", "\231" ▪ MapTable = "]", "\234", "^", "\238", "`", "\244" ▪ MapTable = "{", "233", "|", "249", "}"}", "\232", "~", "\251"	Terminal Emulation
UWIN-695	**Setup > Communications** for Windows Sockets (Telnet) and SSL each have a **Telnet** tab. One of the options on this tab is the **Terminal Type**, which wIntegrate attempts to negotiate with the host when the connection is first made. The available terminals in this list are taken from a `terminals.txt` file in the `Program Files \wIntegrate` folder. When specified, this setting overrides the terminal type embodied in the current terminal emulation `.WIT` file. (Note that the emulation `.WIT` files can be edited with the wIntegrate Editor, installed when you turn on Developer Additions.) The `terminals.txt` file did not include tvi965 as an available type, though there is a tvi965 emulation. This has now been added to the `terminals.txt` file. Note that the `terminals.txt` file can be customized as required. It is important to have a dedicated list of terminal types for use in **Setup > Communications**, and also to allow users to customize the list. In theory, it would be possible to use the list of terminals shown in **Setup > Terminal**, but this could include terminal names that are not valid on the server, and the list could not be customized.	Terminal Emulation
UWIN-696	Vietnamese and Thai use non-spacing characters, meaning that multiple input characters are displayed in a single character cell. In Vietnamese, they are the diacritics (accents), which are added to the previous character cell by a second keystroke. There is a mismatch between the number of keystrokes and the number of character cells used to display the input. wIntegrate could crash when a language with these non-spacing characters was used, and the user switched between 80/132 columns. The code was not allocating enough memory internally for the non-spacing characters. This has been fixed.	Terminal Emulation
UWIN-697	The program could crash after switching from an SSH connection to Telnet (Windows Sockets). This was because an internal resource was not properly being destroyed when the user switched to another communications protocol. This has been fixed.	Communications

Issue Number	Description	Component
UWIN-698	When a script attempted to resize row 0, the header row returned an error "6295 Grid row is outside range of rows in Grid." This has been fixed. It is now possible to resize row 0.	Scripting
UWIN-701	Version 6.2.0 introduced support for SSH connections. In the **Setup** dialog box, there is an SSH tab with the option to set a Terminal Type. In this release, the terminal Type is automatically set to vt220 rather than be left blank. This means that $TERM on the host is always set. We decided not to set the Terminal Type according to the terminal selected in **Setup > Terminal**. For many people, this would work well, but for some, the terminal emulation in wIntegrate might not match a valid $TERM setting on the host, which could cause more confusion than benefit when a change in one dialog box affects another. On balance, we felt that the two fields are best kept unrelated.	Terminal Emulation
UWIN-703	Users should not be aware of this change. It is mentioned for the record only. Version 6.2.0 was rebranded as Rocket Software. Some additional internal files have had their names changed.	Other
UWIN-704	Support for ViewData emulation was removed from Version 6.2.0. The file `terminals.txt` in the `Program Files\wIntegrate` folder is used in the **Setup > Communications** dialog box. It shows a customizable list of available terminal types on the host. We have removed ViewData from this file.	

Issue Number	Description	Component
UWIN-705	The wIntegrate Editor is the easiest way to edit `.WIC` configuration files. It uses configuration `.INI` files to determine keyword coloring, and display settings for the different file types it supports. The `config.ini` file specifies the settings when editing session `.WIC` files, such as the default file `Session1.wic`. The `config.ini` file is in the `Program Files\wIntegrate \wIntEdit` folder. This file was not updated to take account of the new SSH settings added in version 6.2.0. It was lacking the following keywords relevant to SSH: - PortNumber = 22 - KeyFileName = "" - Protocol = "SSH2" - TerminalWidth = 80 - TerminalHeight = 24 - LogFileName = "" - LofFileMode = "Overwrite" - LogRawData = 0 - LogDataPackets = 0 - LogSSHEvents = 0 - LogSessionData = 0 The standard `config.ini` file installed with the program now specifies the new keywords. Note that this change applies only when editing session configuration files with the `.WIC` extension. Sessions can also be started by scripts with the `.WIS` extension where the color settings and display parameters are determined by the `script.ini` file, but the session configuration keywords have never been specified in this file.	Other
UWIN-708	**Setup > Communications** has three options - **Telnet (Windows Sockets)**, **SSL**, and now **SSH**. In previous versions, these dialog boxes expected the user to type in the host name each time it changes. In this release, the host names are remembered in a drop-down list. For easy manipulation, the host names are stored in text files in the `Program Files\wIntegrate` folder. The file names are: - Telnet: `HostsWindowsSockets.txt` - SSL: `HostsSSL.txt` - SSH: `HostsSSH.txt`	Setup and Configuration

Issue Number	Description	Component
UWIN-709	wIntegrate works internally with data in Unicode. When data is received from the U2 host, before it is displayed on screen, etc., it is converted to Unicode using the Host Encoding specified in **Setup > Terminal**. However, data sent to the printer using slave printing was not converted using Host Encoding. This means that multi-byte characters such as Vietnamese were not printed as the correct Vietnamese character but as the original bytes as stored on the host. The program now converts incoming data intended for slave printing, according to the Host Encoding selected in **Setup > Terminal**. Data is not converted if the **Print Direct** check box is selected in the **File > Setup Printer** menu option. The purpose of this option is to send data to the printer exactly as received so that the host can determine the exact characters sent to the printer.	Terminal Emulation
UWIN-712	The **Setup > Communications** dialog box for Windows Sockets (Telnet) has a check box to enable the KeepAlive. When KeepAlive is selected, a meaningless packet is sent periodically to the host to prevent it from closing the connection due to inactivity. Selecting the check box simply activates the KeepAlive functionality built into the TCP networking functions. The dialog box now has a KeepAliveTime text box that lets you set the number of seconds of inactivity before the KeepAlive packet is sent. Previously, the KeepAlive was the system default of two hours, but this was too long for many users. The KeepAlive status and the KeepAliveTime can be configured differently for different sessions. The values are stored only in the session `.WIC` files, so the Registry is not used.	
UWIN-714	Version 6.2.0 uses a new grid. While working on 6.2.1 to fix issues in the new grid, we realized that developers would appreciate the ability to set some default values. None of these are supported in the Java client. ▪ Default font for the entire grid. The Font setting for the grid now sets the font for all cells in the grid. ▪ Default font for column and row headers Two new script commands `RowHeadersFont` and `ColHeadersFont` set the default font for Row 0 and Column 0. Note that the grid does not have real column and row headers; they are just Row 0 and Column 0 of the grid. ▪ Default row height The new script command `DefaultRowHeight` sets the default row height for all rows in the grid. These new routines are documented in the *Client Scripting Reference*. We have decided not to implement setting the default column width at this time.	Scripting

Issue Number	Description	Component
UWIN-715	The Script Monitor appears when a script error is encountered.	
	If a script had multiple errors, and you pressed the **Ignore** button, the Script Monitor disappeared for the first error but did not return for subsequent errors.	
	For example, this script statement has three errors: PRANT "a"; PRBNT "b"; PRCNT "c"; PRINT "d"	
	It shows the Script Monitor because PRANT "a" is not a valid script command. After clicking **Ignore**, the script then stops at PRBNT "b" as this is also an error, but the script error dialog box was not shown.	
	A valid statement between two errors was executed, but the error dialog box was still not shown for a subsequent error.	
	For example, this script also has three errors: PRANT "a"; PRINT "hi"; PRBNT "b"; PRCNT "c"; PRINT "d"	
	After clicking Ignore at the PRANT "a" error, the PRINT "hi" statement would be executed correctly but the error dialog box was not shown for the error PRBNT "b". This has been fixed.	

U2 wIntegrate v6.2.0

Release Date: June 2010
These release notes provide information about enhancements and fixes in wIntegrate v6.2.0

Enhancements and fixes in wIntegrate v6.2.0

The following issues were addressed in this release:

Issue Number	Description
eCase 11626	When user does not have the correct permissions to create a directory, for example, under `C:\Program Files`, the *status_var* flag is supposed to be set to reflect the error. This did not happen – the value of *status_var* does not change when the directory was not created. This has been fixed.
eCase 12102	The wIntegrate Editor would crash if the user attempted to use the Sample code block on the Code menu. This was caused by the way Unicode is handled internally. It has been fixed.
eCase 12446	When pasting text from the clipboard into the character screen, spurious ? characters could appear at random embedded in the text. If the text was pasted again, the ? characters might or might not appear in the same place. The ? characters were not in the data on clipboard. This only happened on some machines. We were able to reproduce this consistently and then fix it. We changed the part of the code that removes control characters from the Unicode data about to be pasted. We believe users should not experience this again.
eCase 12607	Developers wanting to display tooltips for objects in a GroupBox should be aware of the required naming convention. Tooltips will only show for objects in a GroupBox if the GroupBox name is set to "None." This is due to the way the underlying MFC functionality works. This means the group box is a static Windows control, and developers cannot set properties.

Issue Number	Description
eCase 12734	When attempting to export a third party `.XLS` file, the export could fail with the error "Unable to read local disk drive." This happened because the program was not properly handing large internal string tables introduced with a recent version of Excel. This has been fixed.
eCase 12854	The sample VB application `vSession.net` shows how the wIntegrate session control `wSession.ocx` can be used with a .NET application. This is installed when you select Developer Additions during installation. It is in the `C:\Program Files \wIntegrate\Example\VB` folder. The sample has been updated to work with Visual Studio 2008.
eCase 35798	The internal handling of the grid control has been changed. The appearance is slightly different and some obsolete functionality has been removed. The *Client Scripting Reference* manual has been updated accordingly.
eCase 35799	The date/time control has been rewritten to use the standard Windows control. The *Client Scripting Reference* manual has been updated accordingly. The new date/time control is now shown on the dialog box that is created by the host program `WIN.DBDEMO3`. This is option 17 on the `WIN.DEMO` menu showing developer samples.
eCase 35800	The calculator control has been rewritten using standard Windows controls.

Issue Number	Description
eCase 37404	A new option U2 SSH is available in **Setup > Communications**. The setup is similar to Telnet and U2 SSL. General tab: ▪ **Host**: Specify the host name. In the **Host** field, enter the name or IP address of the host computer with which you want to communicate. To fix the login for a particular user, you can include the user name in the format myloginname@myservername.com ▪ **Port**: Specify the port. In the **Port** field, port number 22 is selected by default because this is the standard port number for SSH. If your server uses a different port for SSH, enter the port number. SSH tab: ▪ **Protocol**: Select **SSH1** or **SSH2** ▪ **Terminal type**: Select a terminal type. The terminal type is set by default to be the same as the terminal emulation selected in **Setup > Terminal**. If the host does not support this terminal type, click the scroll arrow to select the one you want. If you change the terminal emulation in **Setup > Terminal** after you have selected a different terminal type, wIntegrate resets the terminal type to be the same as the terminal emulation. ▪ **Client Authentication Key Filename**: By default, the host accepts a user name and password to authenticate a user. SSH supports an alternative method where an Authentication Key file can be used to authenticate the user. We do not supply a utility to create Client Authentication Key File. Third-party utilities are available to create this file. Logging tab: ▪ **Log Filename**: Enter the name of the file that will store logging information when Log flags are turned on. ▪ **Log File Mode**: Select **Append** to add log data to an existing file, or **Overwrite** to clear the log file every time a connection is made. ▪ **Log Raw Data**: Records the sent (unencrypted) and received (decrypted) binary data. ▪ **Log Data Packets**: Records the details of each SSH data packet. ▪ **Log SSH Events**: Records a summary of each SSH authentication event. ▪ **Log Session Data**: Records the user data, including keyboard input and what appears on screen. To make your backspace key work properly, you might need to change the Backspace setting in **Setup > Terminal** from the default value of Normal(8) to Delete(127). The Setup SSH dialog box has a **Default** button that changes the viewed settings to those stored in the `DefU2SSH.wis` file. For the local version, this file is stored in the *username*`\wIntegrate\Default` folder. For thin client users, it is in the `ProgramData\Rocket Software\wIntegrate Server\Users\`*username*`\Default` folder. Note that the files in the Default folders are copied automatically from the `Program Files\wInt...\wIntSys\Default` to the user's folder, but only when *username* first uses the relevant program. So if *username* already has an earlier version of the program installed, the Default folder will already exist for that user, so any new Default files will not be copied to the user folder.

Issue Number	Description
eCase 38503	Converting character-based applications to true GUI has been a long-standing objective of many developers. A new Tech Note with sample programs/data shows how this can be achieved. In this example, a screen-driver program reads parameters from a file to control each screen. The parameters are used to create a dialog box, and the screen-driver is adapted to control this dialog box. Instructions are in the PDF titled *How to convert Character-based to GUI*. All files mentioned here are in the `Program Files\wIntegrate\Host` folder. The following programs are included in the `bp_demo.txt` file: • `WIN.DEMOSD` - initial application allows choice of character or GUI • `WIN.CHARSD` - runs the character version • `WIN.GUISD` - runs the GUI version The data files containing a data record and screen parameters are contained in file `demodata.txt`: • `WIN.SCREEND` • `WIN.PERSON` • `DICT WIN.PERSON` These host files and programs are installed to the U2 host (along with other sample programs and files) by running the `inst_dem.wis` script.
eCase 39051	This change is mentioned for the record only. Users should see no changes in operation. Previous releases of the program were installed using InstallShield 10.5. Version 6.2.0 uses InstallShield 2009 SP2.
eCase 39428	When the wIntegrate Editor is started, it has no document open, and the user must select **File > New**, then a format to use. A new Preferences dialog box on the **Tools** menu lets the user choose the default document or action when the program starts. The options are: • None • Ask • Script • Terminal emulation • Host basic program • Text • Configuration session file The default format is Text.
eCase 40539	The splash screen and **Help > About** dialog box in the Simplified Chinese version were out of date. They have been updated to the new Rocket branding. See also eCase 41635.
eCase 40592	A code-signing certificate is embedded into the Java client (`wIntJavaApplet.jar` file). This certificate verifies the creator of the application. The v6.2.0 release contains a new 3-year certificate that will expire on March 28, 2013. Previously, a 1-year certificate was used. This was first included with v6.1.3 (eCase 37415). Its expiration date is July 28, 2010. An expired certificate does not prevent the executable from running, but it shows a warning message.

Issue Number	Description
eCase 40593	ViewData is an unusual emulation using a 40x24 screen instead of the usual 80x24. It was used in some countries to provide text-based news services over analog television broadcasts. In the United Kingdom, it was a popular interface for travel agency systems. The ViewData emulation has been removed from the product. The code was quite complex and complicated the rest of the internal emulation processing. As it is no longer used, it has been removed.
eCase 40618	There was an error in outward conversion of masked decimals, where OCONV(999.9, "MD2") returned 9.99 but it should return 10.00. This has been fixed.
eCase 40619	In **Setup > Application**, the **Folders** tab had a **V4.0 Compatible** button. This was introduced in Version 5.x to make life easy for users who preferred not to use the new My Documents folders, but to continue to store settings files in `Program Files \wIntegrate`. Today, it is no longer feasible to store settings in the `Program Files` folder as Vista prevents users from saving files there. This option is no longer useful and has been removed.
eCase 40627	In the editor, the Folder Options dialog boxes let you specify the folders that are used for code blocks, and for programs that are downloaded from the host. By default, these locations are in the `Program Files\wIntegrate` folder. This is not considered good practice and is discouraged by Microsoft. These user files are now stored in the `My Documents\wIntegrate` folder.
eCase 40630	The inward conversion of "1000" is supposed to work in the same way as "10:00." This was not working. Similarly, times such as "100" and "900" should be converted to 1:00 and 9:00 respectively. Generally, on multi-valued systems, this type of inward conversion is not supported. However, wIntegrate has always been coded for this to work, but it did not work properly. The inward conversion of 1000 is now treated correctly as 10:00. Also, the ICONV of times now recognizes the following values as the respective times: ▪ 25 = 00:25 ▪ 59 = 00:59 ▪ 61 = invalid ▪ 100 = 01:00 ▪ 959 = 09:59 ▪ 961 = invalid ▪ 1000 = 10:00
eCase 40644	The `ChangeUserSession` script command lets developers control the thin client login process with a script. It allows every user to log in automatically to the wIntegrate server with the same temporary user name. A scripted dialog box lets the user enter their real name and password once only. The session is then assigned to the real user name and the session's `.WIC` file is copied to the real user's own folder. We discovered that this process had a bug, as follows: When Jim logs in, the user session is changed from the common user name to "Jim" using the `ChangeUserSession` command. The program expects all of the files to be in Jim's folders, but when Jim logged in, the original session file was created in the general purpose folder that is used by all users initially. This discrepancy prevented the original session file from being removed. So it is likely that these session files could build up. It now moves the original session file to the user's folder as part of `ChangeUserSession`, so it can be deleted later.

Issue Number	Description
eCase 40680	When data is sent across networks, it is split into packets that are automatically joined together on the receiving computer. Rarely, for no apparent reason, we see issues where data has been lost. This can happen when changes are made to networking infrastructure, or when either the host or client computer is runs very slowly. In the serial and TCP/IP communications, we implemented Transmit Delay and Transmit Block Size to slow down the communications. Transmit Delay is a number of milliseconds to pause between blocks of characters that are transmitted to the host. The larger the value, the slower communications will be. The default value is 0. Transmit Block Size box is the number of characters in each block that is transmitted to the host computer. The default value of zero specifies the fastest possible transmission, with no restriction on the number of characters in each block. The smaller the number, the slower the communications as a larger number of smaller blocks will be sent. The larger the number, the faster the communications will be.
eCase 40797	The **File > Save As** dialog box lets you save the settings for the current session as either a `.WIC` file (the default setting) or a `.WIS` script. In the dialog box, if you choose **Scripts (.WIS)** in the **Save As Type** drop-down menu, the program would hang. This has been fixed.
eCase 40813	The `ScriptVersion` command returns the version that is contained in a script. If the specified script did not exist, the program crashed with an Access Violation. You could verify this bug by running `WC.WIS` in `Program Files\wIntegrate \Example\Script`, and running the following script statement: `MessageBox ScriptVersion(UserDir : "nonexistentscript.wis")` This has been fixed. As a workaround, you could check whether the script exists using the `FileExist` command before getting the version.
eCase 40819	This item is of interest to Support personnel responsible for running the wIntegrate Server. The wIntegrate Server now catches exceptions (execution errors) specifically when reading the incoming communications. A new CONTACT SUPPORT message is displayed showing the text "ReadComms" in the message if the exception occurs around the internal readcomms call.

Issue Number	Description
eCase 40820	The wIntegrate Administrator now has a new **Client Debug Logging** check box. When selected, log files are written showing the activity that is sent from the client to the server with the time/date by user session. The folders that are used are as follows: ▪ Vista: `ProgramData\Rocket Software\wIntServ\Logs` ▪ XP: `Documents and Settings\All Users\Application Data\Rocket Software\wIntServ\Logs` Log files are created with IDs in the following format: `cl20091030_142333_103_drtest_127_0_0_1-10_0_0_16`.txt ▪ cl = Client Log (to differentiate from other types of logs) ▪ Date file created, YYYYMMDD ▪ Time file created, in seconds ▪ unique rolling number to ensure ID is unique. Starts at 1 every time wIntegrate Server is started ▪ IP addresses - PC running wIntegrate Server _ PC running wIntegrate client Sample contents of file: ``` TIME DATE COMMAND 14:23:52 10/30/09 KC 14:23:54 10/30/09 KC 14:23:58 10/30/09 WI 14:23:58 10/30/09 GI 14:23:58 10/30/09 GI 14:23:58 10/30/09 WE 14:24:00 10/30/09 WE 14:24:00 10/30/09 RP 14:24:00 10/30/09 RP ``` The command mnemonics are for internal use for analysis by Level 3 support.
eCase 40831	In late 2009, the U2 database and tools business became part of Rocket Software, Inc. This has meant changes to the branding and file locations. On the surface, version 6.2.0 has different company branding with splash screens, and copyright statements, etc. Internally, it uses different locations in the directory structure and registry where the company name is used. Administrators should be aware that wherever files were previously stored under "IBM," they are generally now stored under "Rocket Software." Here are the folders with their old and new equivalents on Windows 7 and Vista: License file: License.wil. The old folder was `C:\ProgramData\IBM\wIntegrate License`. The new folder is `C:\ProgramData\Rocket Software\wIntegrate License`. wIntegrate Server thing client users*. The older folder was `C:\ProgramData\IBM\wIntServ`. The new folder is `C:\ProgramData\Rocket Software\wIntegrate Server`. * Note the renaming of this folder to the full product name. The installer automatically moves files from the IBM location to the new Rocket Software folders, so the IBM folder disappears. However, if the equivalent Rocket Software folder already exists, then no files are changed, copied, moved, or deleted. Following the same principle, entries in the Registry are also moved unless, for example, "wIntegrate" or "wIntegrate Server" already exist in the Registry under Rocket Software.

Issue Number	Description
eCase 40852	The `ChangeUserSession` script command lets developers control the thin client login process with a script. It allows every user to log in automatically to the wIntegrate server with the same temporary user name. A scripted dialog box lets the user enter their real name and password once only. The session is then assigned to the real user name and the session's `.WIC` file is copied to the real user's own folder. We discovered that this process had a bug, as follows: The `ChangeUserSession` command could cause a crash due to a conflict in the multi-threading. If two people logged in at the same moment, one user could release the details of the other user. We believe this crash was very unlikely as the `ChangeUserSession` process happens very quickly. This has been fixed. The handling of the multi-threading has been changed to prevent user sessions from conflicting with each other.
eCase 40853	The `ChangeUserSession` script command lets developers control the thin client login process with a script. It allows every user to log in automatically to the wIntegrate server with the same temporary user name. A scripted dialog box lets the user enter their real name and password once only. The session is then assigned to the real user name and the session's `.WIC` file is copied to the real user's own folder. We discovered that this process had a bug, as follows: During the initial login, a session `.WIC` file is created for each user. When the session was reassigned to another user name, the `.WIC` file was correctly copied to that user's folder. However, the session `.WIC` file was not deleted from user folder belonging to the initial user name. This has been fixed.
eCase 40979	The licensing system has been changed. A 6.2.0 license cannot be used with earlier versions, and a pre-6.2.0 license cannot be used with v6.2.0. Similarly, the licensing check in 6.2.0 that counts simultaneous users does not "see" earlier versions, and pre-6.2.0 versions do not "see" v6.2.0 users. The UserStat program shows current users on the network. This now sees only v6.2.0 users. The evaluation procedure is different. In v6.2.0 it works like this: ▪ The regular versions of all the wIntegrate products are available from U2BC and on the product CD. If these versions are not authorized they will run for ten days, during which a countdown warning message is displayed. The licensing dialog box is shown during installation and on the menus. So at any time you can enter an evaluation license of a full license from U2BC. ▪ New for v6.2.0 is a Trial version available as a download from the U2 web site. The licensing dialog box is not shown during installation or on the menus. The trial version is automatically authorized for 60 days. During the last ten days, a countdown warning is displayed.
eCase 41009	The Java client supports searching in the grid. However, the search text was only found if the whole cell matched the given text. It is supposed to find the search text even if it is only part of the text in the cell. This has been fixed.
eCase 41024	eCase 8493 in version 6.1.1 introduced the ability to paste Unicode characters into the emulation screen by automatically converting them to equivalents that can be handled by the U2 host. For example, Word's smart quotes are converted to simple double quotes. The characters to be converted can be customized in the file `InputMap.txt` in the `Program Files\wIntegrate` folder. There was an issue where, if a character was set to be converted to null, a memory leak occurred. This has been fixed.
eCase 41025	All wIntegrate version 6.1.3 and 6.2.0 applications are certified to work with Windows 7 64-bit. This includes the local install-version in addition to the wIntegrate Server and thin clients.

Issue Number	Description
eCase 41026	All wIntegrate version 6.1.3 and 6.2.0 applications are certified to work with Windows Server R2. This includes the local install-version in addition to the wIntegrate Server and thin clients.
eCase 41059	The Authorization Key is entered with the Serial Number during installation. It consists of twelve letters and numbers followed by the number of users it supports, for example, Q1WE-AS2D-ZXC3-1. Optionally, an evaluation license of, say, 30 days would also have "-E30" appended. The Authorization Key contains information about the license, including the Serial Number and the highest version of the product it supports. In the 6.2.0 release, the Authorization key is generated in a different way. This is not apparent to users from looking at the Key, but it means that a Key that works with version 6.2.0 and later cannot work with releases before 6.2.0. All aspects of the product affected by licensing have been changed accordingly. When the program starts, it broadcasts a message to other instances of the program running on the same network. (Please see the *Administration Guide* for more information.) In previous releases, the broadcast was made on TCP/IP port 5005. In 6.2.0, the port that is used is 55005. The UserStat program is affected by the change of port. This is a stand-alone application that lets you click a button and see a list of all wIntegrate users, according to who responded to its broadcast. In 6.2.0, it broadcasts on the new TCP/IP port 55005, and so cannot show users of earlier versions as these would not "see" the broadcast.
eCase 41188	Before the 6.2.0 release, wIntegrate shipped with version 3.1.0.0 of the U2 Device Licensing DLL `u2licn.dll`. eCase 11054 describes an issue with version 3.1.0.0, where Device Licensing failed when connecting with Citrix or Terminal Services over a WAN or different subnets. Device licensing was not able to get the host name when Citrix or Terminal Services environments were being used, and the server was accessed by the client over a WAN, or when the client and server were on different subnets. This was fixed in version 3.2.1.0 of `u2Licn.dll`, which is shipped with wIntegrate 6.2.0.
eCase 41326	The licensing dialog box lets you enter the Serial Number and Authorization Key. It is shown during installation, and is also available on the **Start** menu under wIntegrate. The Key contains information about the license. In this release, when you have entered the Key and tabbed away from the field, the dialog box shows the number of users supported and the highest version of the product it supports. It shows the same information when you show the dialog box, and a Key has been entered previously.
eCase 41413	It has always been possible to drop text between other applications, such as a word processor and the wIntegrate screen. It is now possible to drag and drop files and folders from, for example, the File Manager, on to controls in scripted dialog boxes. The receiving control must support the Drop event.
eCase 41429	The wIntegrate Administrator is installed with the wIntegrate Server as part of the thin client deployment. During development of v6.2.0, Symantec Anti-Virus mistakenly reported a "Suspicious DLoader" virus in this application's executable `wIntAdm.exe`. The wIntegrate Administrator is written entirely by Rocket Software developers. It is a relatively simple program with no external code or binaries. The code is essentially unchanged from the 6.1.3 release (Aug 2009) in which Symantec did not find a virus when this version was released. The "Suspicious DLoader" virus check was first introduced by Symantec on December 16, 2009. Their web page says its damage level is low and it is easily removed. It also says legitimate files can be misidentified and quarantined. We submitted this false positive to Symantec. They responded that they will remove this detection from a future release of the product.

Issue Number	Description
eCase 41544	The program supports custom images in the splash screen and **Help > About** dialog boxes. If VARs put images named `OEM_ST.bmp` and `OEM.AB.bmp` into the `Program Files\wIntegrate\Images` file, then these images are used for the splash screen and **Help > About** respectively. These dialog boxes normally display license text in a black font. However, for past reasons of backward-compatibility, when OEM images are used, the license text was shown as yellow. In this release, the license text is always black, even if OEM images are used.
eCase 41603	When exporting data from a spreadsheet to the U2 host, each column in Excel should normally go into a different attribute in the U2 data record. However, when exporting data from an `.XLS` spreadsheet created by Excel 2003/2007, it was possible for two cells in the spreadsheet to be concatenated together in the same U2 field. This could happen because Excel has a recently introduced alternate way of storing column numbers internally. The program did not always handle this correctly. This has been fixed.
eCase 41617	wIntegrate 6.2.0 is certified to work with Microsoft Office 2010. Users of Dynamic Data Exchange (DDE) should be aware that Microsoft Excel has an option in **File > Options > Advanced** to **Ignore other applications that use Dynamic Data Exchange**. DDE is a 16-bit technology. If you are still using it, you might want to consider replacing it with Automation, the 32-bit equivalent.
eCase 41635	You can run the local version of the product with menus, dialog boxes, and messages in Simplified Chinese. This is achieved by going into **Setup > Application**, **Language**, and selecting **Chinese** in the drop-down list. You need to restart the program for this change to take effect. Similarly, the CD menu and installer for the local version can optionally be run in Simplified Chinese. If you are running a Simplified Chinese version of Windows, everything appears in this language by default. In this version, the resources (dialog boxes, menus, and messages) have been updated to match internal changes to the code. Recently added text is still in English.
eCase 41677	This is for the record only. Users should see no difference in usage. The technical manuals such as the *Client Scripting Reference* and the *Object Model Reference* are generated programmatically. This program has remained unchanged for many years. It was rewritten for this release. Users should see no difference when using the manuals.
eCase 41938	Controls in wIntegrate can be set to accept drag and drop text. When a file from Windows Explorer was dragged and dropped onto a control, Windows Explorer could crash. The was very rare and only happened under a specific set of circumstances. It would happen if a file was dragged to a control when no other control in the session had set the DragTarget property, and also other conditions were true. The crash happened because wIntegrate was checking the data dragged to see whether it was in wIntegrate's internal drag format, which is only registered if a DragTarget has been set on any control. The program now checks whether the internal drag format has been registered before using it. This has been fixed. We also noticed that drag and drop events did not have access to the DialogBox Event library. This is only required if developers choose to use routines in the library. We changed the code so that drag and drop can access this library by default.

Issue Number	Description
eCase 42014	The Editor is installed when you select Developer Additions during installation. It supports syntax coloring for scripts, host basic programs, and session `.WIC` files. The Editor has been enhanced as follows: ▪ The "!" character is now recognized as beginning a comment, in the same way as "*" ▪ Formatting of IF / END ELSE / END statements is improved when some lines have comments appended The Dialog Designer now supports double quotation marks in the Caption property of those controls that have captions.
eCase 42037	Since the beginning of June 2010, we have seen a new crash in wIntegrate. We believe that this is happening as a result of a Windows update. It happens when wIntegrate is active, and the user shuts down Windows in the normal way. The user sees a message "RPC Server not available," followed by a "software exception" dialog box reporting a crash in `wInteg.exe`. It happens because Windows is now closing the Session Manager `wIntegSM.exe` at an earlier stage of the Windows shutdown process. However, wIntegrate expects it to still be available. This causes the crash. We have modified the program to catch the exception, which means that the user does not see that the crash has happened. However, if the user subsequently chooses to stop the shutdown of Windows, wIntegrate will be left active but it will not work because it needs the Session Manager, which has already stopped.

Notices

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