Liant v12 WS1 (v12.05) Supplement

This document describes, for each component of the Liant product set, the changes made in the v12 Web Sync 1 (WS1 or v12.05) release of the product. In most cases, the changes were the result of a reported product incident (RPI) and in those cases the RPI number is provided for reference.

Windows 7 Support

Version 12 WS1 (v12.05) has been successfully tested on Windows 7.

BIS+WOW Thin Client Accept/Display

RPIs:

1069650 —Version 12 WS1 (v12.05) BIS+WOW has removed several dlls from the sample cabinets due to problems with missing Microsoft "c" libraries used by those dlls, which implement Thin Client Accept/Display. The BISplus_HOWTO.doc/pdf contains details of this change.

InstantSQL for RM/COBOL

RPIs:

1069429 —Fixed a defect in InstantSQL, when using a MySQL database on Linux, that caused "glibc detected free(): invalid pointer: 0x08086f2e". There was a conflict between external symbol names in the RM/COBOL runtime executable and the myodbc shared object. The problem has been resolved by changing the conflicting symbols in the RM/COBOL runtime to be local (static) symbols.

1069445 — Added the InstantSQL documentation, a ZIP file containing the HTML help, to the RM/COBOL development system InstantSQL directory. The file can be unzipped and then browsed by double clicking the `index.htm` file in the directory where the zip file is expanded. (NB: The zip file is also available at, and can be downloaded from, the following URL: http://downloads.microfocus.com/liant/download/isqlhelp.zip).

1072711 — Fixed an InstantSQL defect that caused a runtime crash when using bound columns or parameters. The InstantSQL defect used the wrong CodeBridge conversion buffer pointer for conversion of bound columns and parameters. The defect was masked by the v11 and earlier implementations of CodeBridge, but was revealed by v12 changes to the CodeBridge implementation to fix memory leaks caused by CodeBridge.

Relativity Data Client

RPIs:

559654 — (not fixed yet; Relativity Data Client segmentation fault when called from InstantSQL on HP-UX PA-RISC systems. On systems other than HP-UX PA-RISC, RPI **1066803** fixed problems with using the Relativity Data Client from InstantSQL).

559679 — Fixed the installation of the Relativity Data Client on Windows to have digitally signed executables.

559727 — Fixed a problem with the server configuration control panel applet on Windows Vista and later versions of Windows that caused the "Program Compatibility Assistant" to ask "Did this control panel work correctly?" The question is no longer asked because a manifest has been added to the control panel applet.

559728 — Created a 64-bit version of the server configuration control panel applet for 64-bit versions of Windows. A 64-bit version is necessary to create the correct registry entries for the 64-bit Data Client introduced in this release.

1066803 — Fixed `SQLDriverConnect` in the Relativity Data Client on some UNIX and Linux platforms to not return "success" without doing any work unless `SQL_DRIVER_NOPROMPT` is specified. The data client would crash when a later operation tried to use the uninitialized connection. (NB: SQLConnect worked in the data client, but InstantSQL uses `SQLDriverConnect` with a default of `SQL_DRIVER_COMPLETE` and thus demonstrated the data client failure on the platforms where the problem existed.)

1066963 — Created a 64-bit version of the Relativity Data Client for Windows, which can then be used with 64-bit versions of other database software, such as 64-bit SQLServer, on 64-bit versions of Windows. (The Relativity Data Server remains a 32-bit application and thus no additional database capacity is gained by using the 64-bit client to talk to the server.)

1072464 — Fixed a license certificate issue with UNIX Data Server licenses. The issue incorrectly prevented using LiantInstall to install the Relativity Data Client on Windows. The fix has been available in licenses issued since January 5, 2010, when the certificate on the license server was corrected. For UNIX licenses issued prior to January, 5, 2010, the Relativity Data Client could be installed on Windows simply by opening the MSI for the data client.

Relativity Data Manager

RPIs:

559675 — Fixed the installation of the Relativity Data Manager on Windows to have digitally signed executables.

559726 — Fixed a problem with the global configuration control panel applet on Windows Vista and later versions of Windows that caused the "Program Compatibility Assistant" to ask "Did this control panel work correctly?" The question is no longer asked because a manifest has been added to the control panel applet.

559729 — The Relativity control panel icon for the DBMS configuration control panel applet is hidden on 64-bit versions of Windows XP, Windows Vista and Windows Server 2008 in a 32-bit Control Panel. On 64-bit XP, the 32-bit Control Panel is opened from the 64-bit Control Panel with the "View x86 Control Panel Icons" icon. On 64-bit Vista and Windows Server 2008, the 32-bit Control Panel is opened from the 64-bit Control Panel with the "View 32-bit Control Panel Items" icon. This release has no 64-bit Data Manager and thus no 64-bit DBMS configuration control panel applet. (NB: See Relativity Data Client in this document for information about the 64-bit Data Client and 64-bit Server Administrator control panel applet.) On 64-bit versions of Windows 7, the 32-bit control panel items are no longer hidden and are shown in the Control Panel with the designation "(32-bit)" appended to the name.

1067065 — Fixed a defect from both v11 and v12 where repeating a certain query multiple times could crash the data manager (or the data server).

1067089 — Fixed a defect with the implementation of the SQL statement `SELECT … GROUP BY` when applied to a Relativity table based upon multiple COBOL files where an incorrect, and sometimes infinite, result set was returned for the query.

1070016 — Fixed a defect in installation of the data manager that caused the installation to fail when the Micro Focus file manager library (DLL) and its default version could not be found. The error is now simply logged and the installation continues. If the user then attempts to enable Micro Focus file support during installation, the user can locate the library manually with the browse capability on the enablement page.

Relativity Data Server

RPIs:

559039 — Fixed the installation to create registry value named `SvcConfigDir` instead of the misspelled registry value `SvnConfigDir`.

559676 — Fixed the installation of the Relativity Data Server on Windows to have digitally signed executables.

559726 — See discussion regarding this RPI under Relativity Data Manager.

567488 — Fixed server administrator to accept a network name containing a hyphen.

1067065 — Fixed a defect from both v11 and v12 where repeating a query multiple times could crash the data server (or the data manager).

1067089 — Fixed a defect with the implementation of the SQL statement SELECT … GROUP BY when applied to a Relativity table based upon multiple COBOL files where an incorrect, and sometimes infinite, result set was returned for the query.

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Relativity DBA

RPIs:

559677 — Fixed the installation of the Relativity DBA on Windows to have digitally signed executables.

Relativity Designer

RPIs:

559678 — Fixed the installation of the Relativity Designer on Windows to have digitally signed executables.

Relativity JDBC Client

RPIs:

3288 (Tracker) — Fixed a problem in the Relativity JDBC Client where the PreparedStatement.setObject method would generate the error "Dynamic parameter #1 type mismatch".

RMNet

RPIs:

1066670 — Added a programatic way to configure proxy server settings for RMNet. See the description of the NetSetProxyServer function in the rmnet.pdf documentation for further information. Also added a function to disable (and enable) SSL peer certificate verification. See the description of the NetSSLVerifyPeer function in the rmnet.pdf documentation for further information.

1069427 — Included the RMNet documentation in the product as rmnet.pdf. Previously, the documentation was only available on the Micro Focus web site.

RM/COBOL

RPIs:

568496 — Fixed a problem in the implementation of the RUN-FILES-ATTR configuration record USE-PROCEDURE-RECORD-LOCK-TIMEOUT keyword that could cause a file manager hang when a non-zero value is specified for the value of the keyword.

1065891 — Fixed a CodeWatch defect in the Workspace Properties dialog. When an Overriding or Supplemental Configuration file option specified a file path with a space in the name, CodeWatch could not find the specified configuration file.

1066104 — Fixed a CodeWatch defect that caused an unhandled exception crash when Print Preview was used.

1066606 — Fixed a CodeWatch defect introduced in version 12 where a workspace with more than 511 file entries could not be opened.

1066611 — Fixed a COBOL runtime assertion failure when a LIKE relation condition specified the `CASE-INSENSITIVE` option and the regular expression contained a counted character match, that is, an *{m,n}* quantifier on a character match.

1066705 — Fixed a Linux installation defect where cpio returns "Premature end of file." on some Linux distributions.

1066788 — Fixed a `LicVerifyAll` failure when merging a runtime license into a development system installed license vault on HP/UX Itanium systems. Prior to the fix, the message *LicVerifyAll: License install of 'RM/COBOL Runtime System' failed 0xc1000011: The serial number in the license does not match the serial number of the original license.* could be

incorrectly returned.

1066808 — Fixed a COBOL runtime defect when detecting **SIZE ERROR** condition on binary data items where the **PICTURE** character-string specified more digits than supported by the allocation specified by the **USAGE**, as in **COMP-1** data items or other binary data items with a USAGE that specified an allocation override. The **SIZE ERROR** condition could be raised when it did not apply or not raised when it did apply for arithmetic results stored in such binary data items. This defect has existed since v7.

1066815 — Fixed a defect on UNIX and Linux systems that prevented loading the termcap version of the COBOL runtime because of a spelling error in the function name RM_TCSETATTRNOW.

1066909 — Fixed a COBOL compiler problem in the **REPLACE** statement and the **REPLACING** phrase of the **COPY** statement when replacing a single character (for example, an equal sign) that could cause incorrect replacement actions, including replacing that character at the end of a comment line. This also fixed a problem with multiple replacements on the same line, where a latter replacement on the line might not be done when it should, and a problem with incorrect handling of a period following **END-COPY** or **END-REPLACE** (the period is not part of the **COPY** or **REPLACE** statement when the **END-COPY** or **END-REPLACE** phrase is specified, but rather is a period following the statement; v12.02 incorrectly treated the period as part of the statement).

1066914 — Fixed a defect in the administrative install for RM/COBOL to allow installation from a Windows client onto a mapped network drive.

1072048 — Fixed a compiler defect that produced an incorrect warning (0029: W DATA RECORDS data-name not defined for file: <file-name>) about the record-name specified in the DATA RECORDS clause of a file description entry. The problem was evident when the file is properly described in two or more nested programs (for example, by using COPY statements to copy the same file control and file description entries into the two or more nested programs). There was a compiler error in resolving the file-name that implicitly qualifies the data record-name when the file-name exists in two or more nested programs. The error caused the incorrect compilation warning for all but the first file with the same DATA-RECORDS clause.

RM/InfoExpress Server

RPIs:

1066624 — Fixed a problem with I/O errors 30,21 and 90,07 being returned inappropriately when using two InfoExpress servers on the same local area network.

WOW Extensions for RM/COBOL

RPIs:

1065933 — Fixed `WowGetFocus` to allow the user to obtain the handle of an ActiveX child control.

1066530 — Fixed the WOW runtime to work on Windows 2000 systems.

1066812 — Fixed a WOW runtime defect where the scroll bars and `BackColor` on controls were not redrawn for a WOW application when the whole screen was minimized and restored.

1067022 — Fixed a WOW designer defect introduced in version 12. The CONTROL key could cause selected controls to grow larger and repeated use could cause the designer to crash.

1067027 — Fixed a WOW runtime defect with modal forms created with the click event for an edit box or static label not being modal.

1067053 — Fixed a WOW designer defect in the editor that prevented `CTRL+L` and `CTRL+D` from working in version 12 when they previously worked in version 11.

Documentation Correction — The GetTextMetrics documentation states that the TEXT-METRIC structure is defined in windows.cpy. This is inaccurate, it is defined in txtmetric.cpy.

XML Extensions for RM/COBOL

XML Extensions on UNIX or Linux writes temporary files to the temporary directory defined by the `TMPDIR` environment variable and must have file creation, write and delete permissions for this directory. If the `TMPDIR` environment variable is not defined, the temporary directory defaults to `\tmp` or `\var\tmp` depending on the system. Note that XML Extensions is used by Xcentrisity Business Information Server (BIS). Thus problems with BIS may result from permissions issues with the temporary directory.

XML Extensions statements `XML GET TEXT` and `XML PUT TEXT` were fixed to allow binary data on Windows. Previously, binary data could possibly be truncated, for example, at a 0x1a character in the "text"). UNIX and Linux systems already allowed binary data without problems.

RPIs:

1067093 —Fixed a problem with XML EXPORT attempting to allocate more than 2 GB of memory and crashing the runtime. The data structures in XML Extensions were revised to significantly reduce the amount of memory allocated when large occurrence tables (arrays) in the COBOL program are exported.

1069607 — Fixed output of arrays to suppress empty occurrences when attributes are enabled and all occurrences are not enabled. Version 11 suppressed empty occurrences correctly, but version 12 incorrectly output all occurrences whenever attributes were enabled.

1069720 – Fixed problems with algorithms and data structures that caused excessive memory use and slow execution for both XML EXPORT and XML IMPORT when large occurrence COBOL tables (arrays) were exported or imported. The problem was particullarly evident when nested tables (tables containing tables) were used in the COBOL program.

Xcentrisity Business Information Server (BIS)

Xcentrisity Business Information Server (BIS) makes extensive use of XML Extensions for RM/COBOL. Error messages produced when running BIS applications are frequently from XML Extensions and are documented in the XML Extensions User's Guide rather than the Xcentrisity Business Information Server User's Guide. Also, some problems with BIS are actually problems with XML Extensions use of temporary files, as explained in the XML Extensions for RM/COBOL topic of this document.

RPIs (also see RPIs for XML Extensions):

559705 — Fixed a request handler crash that occurred if the **IUSR** security principal is selected to serve anonymous requests, but does not have access to the directory containing the service engine programs. The crash is fixed, and the **IUSR** identity is now granted access to the service engine programs during installation and registration. In addition, other enhancements have been made to clearly explain when the **IUSR** identity should and should not be selected during installation or registration.

559768 — Fixed an installation problem on 64-bit systems running IIS 7 that prevented the application pool from being usable after the installation of BIS on those systems. IIS 7 required the application pool to be marked as allowing 32-bit applications on 64-bit systems. The installation now marks the application pool appropriately when necessary.

567867 — Fixed a problem that caused BIS to hang if a malformed IP is specified in the {{Trace}} tag of an SRF file.

1066093 — Fixed an intermittent problem where after a few days the UNIX or Linux BIS request handler would refuse incoming connections and a restart was required to allow new incoming connections to be processed.

1066143 — Fixed an "access denied" issue when executing BIS applications on non-English Windows systems such as Windows Vista and Windows Server 2003 where the "**AUTHENTICATED USERS**" security ID is translated to the locale of the system (BIS installation incorrectly used the untranslated name "**AUTHENTICATED USERS**").

1066570 — Fixed the Windows utility **BISMKDIR** to support IIS web site identifiers with a value outside the range 1 – 99. This was a prior restriction, but this release allows site ID values in the range 1 – 2,147,483,647 (= (2 ** 31) – 1).

1066938 — Fixed the BIS Windows installer to create the **XBIS12-Application-Pool** as a 32-bit application pool on 64-bit versions of Windows Vista and Windows Server 2008/2008R2 systems, which allows BIS to run successfully on these systems. The Microsoft KB article http://support.microsoft.com/?id=895976 has additional information about the issue resolved by this fix.

1067102 — Fixed the Windows utility **BISMKDIR** to properly create virtual directories for a 32-bit compatible application on 64-bit Windows systems that run IIS version 7.

1071467 — Modified xbisctl utility to provide information for BIS error 29 on a LAN (too many IP address blocks). The extra information reflects the kind of license (LAN versus WAN) and, for LAN licenses, the IP address range for the server to aid administrators in diagnosing the error 29.

1072047 —Modified the b*is/samples/common/soap_request_to_cobol.xs*l stylesheet to correctly support web service array input for Java and PHP. Previously, the stylesheet supported only the Microsoft ASP method of array input for web services as demonstrated in Sample4 of the BIS samples.