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Overview

This cumulative update (PTF) provides bug fixes and enhancements to the CA Plex r7.2.1 tool and runtimes. For a complete list of what is new in this PTF, please refer to the <u>enhancement & ix list</u> in this document. Note that in the remainder of this document the terms 'cumulative update' and 'PTF' are used interchangeably.

Note that existing applications do NOT need to be re-generated or re-compiled in order to be compatible with this update. However, certain fixes may require you to regenerate a subset of your functions in order to take advantage of a particular fix. Fixes that may require source code generation are indicated via the "Gen?" column in the fix list table.

Refresh Pack – As part of the continues delivery model, Refresh Pack delivers all new functionalities & does not contain any bug fixes. To distinguish between cumulative update (PTF) and Refresh Pack, Product's About screen reflects '**Refresh Pack**' at the end of Product's build version e.g. r7.2.1 (Build 24.004) Refresh Pack.

Installation (via Update.exe)

The main cumulative update is provided in a single file called **Update.exe**. This update can be run on a machine containing an existing CA Plex r7.2.1 installation. All CA Plex r7.2.1 components installed on that machine will be updated to the latest PTF version.

If you need to install a runtime PTF on machines that do not have the CA Plex r7.2.1 tool installed (for example, a production server), please refer to the section <u>Runtime Deployment</u>.

Installing the Cumulative PTF

This cumulative update can be installed over any existing CA Plex r7.2.1 installation, including an installation that has already been patched with an earlier PTF version. Simply execute **Update.exe** on the machine you wish to update using Administrator privileges and follow the update wizard steps. Note that on machines using Windows Vista or later, you must use the **Run as Administrator** command in order to run Update.exe and successfully install the PTF.

Uninstalling the Cumulative PTF

Please note that individual components of this CA Plex r7.2.1 cumulative update **cannot** be removed individually.

Also note that you **cannot** install a prior update once you have installed a later version. If you wish to remove the cumulative update from your machine, please follow these steps:

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- 1. Uninstall CA Plex r7.2.1 from Add/Remove Programs (Windows XP) or Programs and Features (Windows Vista/7). This will remove CA Plex r7.2.1 completely from your PC.
- 2. Re-install Plex r7.2.1 GA from your original install media.
- 3. You may now apply a prior version of the PTF using the Update.exe that came with that cumulative update.

Memo

1. The Update.exe installer will run only if CA Plex r7.2.1 GA is installed. If you run Update.exe on a machine where CA Plex r7.2.1 is not installed, you will see an error message similar to the following:

| F | 1628: Failed to complete installation. |
|---|--|
| | |
| | |
| | <u>O</u> K |

- 2. Each version of a PTF cumulatively includes all fixes from prior PTF updates, so there is no need to apply each PTF one by one; simply install the latest PTF in order to obtain all the fixes up to and including that PTF.
- 3. Note that there is no check to avoid running an older version of Update.exe in the event that a newer one is already installed. For example, imagine you have just installed PTF005. You then run the Update.exe for PTF003. Although the install appears to complete correctly, the final list of files installed on your PC will NOT be the same as for a clean install of PTF003 – only a subset of files will be installed to the expected PTF003 version - See item 4 for details.
- 4. The Update.exe installs files using two distinct methods, depending on the type of file being updated:
 - a. Files with embedded version numbers. This includes files such as *.dll or*. exe files. These files only updated if the installing version is <u>newer</u> than the version on the file system.
 - b. Files without embedded version numbers, such as *.txt, *. Lib or *.h files are always updated, irrespective of whether the version from the file system is newer.

Using the example from item 3 above, you would observe that the executable and other binaries associated with PTF005 would remain on the machine even after PTF003 had been installed. Only the library and other text files associated with the install would be changed to PTF003.

Runtime Deployment

Whilst the specific runtimes installed during a CA Plex tool installation can be updated via Update.exe, there might be times where you wish to apply a cumulative update onto a machine that does not have CA Plex installed on it. The most common example of this is when you need to update the CA Plex runtime binaries associated with an application that you have developed in CA Plex and deployed into a production environment. The CA Plex Cumulative Update also includes a zip file for each runtime that CA Plex supports, each of which contains only the updated runtime files associated with that platform.

The table of fixes indicates when a fix includes changes to one of the CA Plex runtime systems (WinC, WinNTC, Java, .NET or IBM i). In these cases, the updated runtime files must be deployed on users systems in order to implement the fixes concerned, along with any re-generated and built functions (note that not all fixes will require regeneration).

Windows C++ Client Runtime (WinC: CAPlexr721PTF_WINC.zip)

The runtime DLLs and related files from the Plex \Bin\ folder need to be installed to the target system. This Plex 7.2.1 runtime update is **not** compatible with 6.0, 6.1, 7.0, 7.1 and 7.2 generated C++ DLLs.

Windows C++ Server Runtime (WinNTC: CAPlexr721PTF_WINNTC.zip)

The runtime DLLs and related files from the Plex **AppServer\Bin** folder need to be installed to the target system. This Plex 7.2.1 runtime update is **not** compatible with 6.0, 6.1, 7.0, 7.1 and 7.2 generated C++ DLLs. The CA Plex NT Dispatch Service must be restarted on the server during the update using the following procedure:

- 1. Stop the CA Plex Dispatch Service 721 if it is running.
- 2. Updated the runtime files on the server.
- 3. Uninstall the Dispatch Service (ob721dp.exe) by entering the following at a command line prompt:

Ob721dp /u

4. Then re-install the Dispatch Service by entering the following at a command line prompt:

Ob721dp /i

Java Runtime (CAPlexr721PTF_JAVA.zip)

Unless otherwise noted only the updated Obrun.jar file needs to be deployed to the target systems. For server applications, the Java dispatcher or EJB Proxy must be restarted. Java runtime updates are compatible with Plex 5.0 and later. For additional information on deploying to earlier releases, please refer to the help topic "Java Runtime Backwards Compatibility" in the Plex online help.

.NET Runtime (CAPlexr721PTF_DOTNET.zip)

The updated runtime files must be deployed to the target system. The .NET runtime must be stopped and restarted. See the Plex 7.2.1 online help topic "Deploying a .NET Server" for more information.

IBM i Server Runtime (CAPlexr721PTF_IBMI.zip)

The IBM i server components are supplied in a save files (*SAVF) that needs to be restored to your IBM i server. The name of this save file is P721024nnn.SAVF, where 'nnn' denotes the PTF build number (e.g. P721024002.SAVF relates to PTF721.024.002). To apply the fixes contained in a particular PTF, please follow the steps below:

- 1. Download the file CAPlexr721PTF IBMI.zip file to a directory on your PC.
- 2. Unzip the file CAPlexr721PTF IBMI.zip to extract the P721024nnn.SAVF file contained within it.
- 3. FTP the P721024nnn.SAVF file to library QGPL on your IBM i server (see <u>Appendix 1: Using FTP to transfer a .SAVF file to your IBM i</u> server, for details).
- 4. Use the RSTLIB command to restore the library P710026nnn to your machine, as follows:

RSTLIB SAVLIB(P721024nnn) DEV(*SAVF) SAVF(QGPL/P721024nnn)

- 5. Add library P721024nnn to any library lists (including job description initial library lists) which contain PLEX721, so that P721024nnn is higher in the library list than PLEX721.
- 6. You can review the member QTXTSRC/PTFREADME for details on each individual fix contained in the PTF library.

For additional information on CA Plex components for the IBM I platform, and additional details on how to restore the save file to your system, please refer to the CA Plex r7.2.1 Getting Started Guide, Chapter IBM i Components under the section "Restore the Product Libraries from Save Files (*SAVF)".

Windows C++ Release with PDB Runtimes (CAPlexr721PTF_PDB_WINC.zip/CAPlexr721PTF_PDB_WINNTC.zip)

In addition to the standard WinC and WinNTC runtime PTF zips, there are two companion versions that allow you to obtain crash dump information from applications that are causing runtime exceptions to occur during execution. These versions can be installed in exactly the same way as their standard WinC and WinNTC counterparts, but contain additional Program Database (PDB) files for each of the binaries shipped as part of the Plex runtime. For further details on the Release with PDB versions of the C++ runtimes and information on obtaining crash dump information about your applications, please refer to the CA Support document 'Using Application Verifier with CA Plex Applications'.

Note: These WinC/WinNTC PDB runtimes are not being bundled as part of PTF build deliverable. These PDB runtimes can be requested from product support, if there is a need of collecting Plex built application's crash dump or other debugging information.

Enhancement & Fix List

In many cases additional documentation may be available by clicking the links below to the corresponding problem on CA Support Online (requires CA Support login).

| Problem / Issue Number | Description | Tool | WinC | Win NTC | Java | .NET | IBM i | Gen? |
|---------------------------|---|--------------|--------------|--------------|--------------|------|-------|--------------|
| (024.006) | Certifications, Bug Fixes | | | | | | | |
| Certifications | | | | | | | | |
| Windows Server | 2022 | | | | | | | |
| For more details | , refer to the <u>Plex compatibility matrix</u> . | | | | | | | |
| OpenJDK v8 sup | port. | | | | | | | |
| For more details | , refer to the <u>Plex online documentation space</u> . | | | | | | | |
| Addresses a bun | ch of vulnerability fixes identified by proactive scanning of the product. | | | | | | | |
| Bug Fixes | | | | | | | | |
| <u>12966</u> | Fix to avoid overwriting edit control data with paste operation in Java DB encrypt password utility. | | | | ✓ | | | |
| <u>12967</u> | Fix to handle Java Database password decryption. | | | | \checkmark | | | |
| <u>13179</u> | Fix to handle saved model configuration across multiple level version environment. | ✓ | | | | | | |
| <u>13477</u> | Fix to handle multiple Web Service method calls from C# Server function, in case of calling C# server function from same WinC client function. | | | | | ~ | | |
| <u>13674</u> | Fix to handle deselect row event for last row in selection with read-only grid. | | \checkmark | | | | | |
| <u>13743</u> | Fix to handle CheckBox modified event with spacebar control. | | | | \checkmark | | | |
| <u>13986</u> | Fix to handle to navigate back subroutine caller in case of partially expanded AD blocks. | ✓ | | | | | | |
| <u>14695</u> | Fix to handle code generation for unused fields in few circumstances. | \checkmark | | | | | | \checkmark |
| <u>15543</u> | Fix to avoid losing the mapping for source code and message objects in case mapping parameter deleted in higher-level version environment. | ✓ | | | | | | |
| <u>15640</u> | Fix to handle quite long scoped function's generation and build. | \checkmark | \checkmark | \checkmark | | | | |
| <u>16319</u> | Fix to handle 3 state CheckBox to return the literal value for third state. | | | | \checkmark | | | |

| Problem / Issue Number | Description | Tool | WinC | Win NTC | Java | .NET | IBM i | Gen? |
|---------------------------|--|--------------|------|------------|------|--------------|-------|--------------|
| <u>16320</u> | Fix to handle C# ComboBox append operation after ComboBox clear. | | | | | \checkmark | | |
| <u>16388</u> | Fix to handle C++ precompiled header rebuild without any change in project. | ~ | ~ | ✓ | | | | \checkmark |
| <u>17338</u> | Fix to provide an option to control unused subroutine in Action Diagram (AD). This is being controlled by Plex.INI option. | ~ | | | | | | |
| | [Options] Report AD Unused Subroutine=1 | | | | | | | |
| | Refer Problem record for more details. | | | | | | | |
| <u>18797</u> | Fix to handle WinC IfFocus in case of defined outside of meta for loop. This is being controlled by application INI option. | | ~ | | | | | |
| | [Settings] If Focus Without ForEach Loop=1 | | | | | | | |
| | Refer Problem record for more details. | | | | | | | |
| <u>18799</u> | Fix to handle to re-calculate field size on panel according to font size change. | ✓ | | | | | | |
| <u>18800</u> | Fix to warn user about unsaved AD changes while generating the respective object. The unsaved AD changes will not be generated. Refer Problem record for more details. | √ | | | | | | |
| <u>18835</u> | Fix to improve the generation time with unused Action Diagram fields. | \checkmark | | | | | | |
| <u>2515</u> | Fix to avoid losing local properties in inherited AD in multi-level version environment. | ✓ | | | | | | |
| <u>2533</u> | Fix to handle duplicate field's edit and level control on panel. | \checkmark | | | | | | |

| (024.005) | Features, Certifications, Deprecation, Bug Fixes | | | | | | | |
|---------------------------------------|--|--------------|--------------|--------------|--------------|--------------|--------------|--|
| Feature/Enhan | cement | | | | | | | |
| This functionality caller position. O | ious cursor position v extends the tool's ability to track the Action Diagram (AD) subroutine's nce user clicks on subroutine call statement in AD, which intern jumps to ition – now user can go back to subroutine call statement using 'CTRL+B'. | • | | | | | | |
| This functionality object browser's | t in Object Browser improves the object browser searching capability by directly typing keys in list items. Instead of locating object with single character, now quickly be searched e.g. E v/s EMP. | ~ | | | | | | |
| Save Local Mode This functionality | | ~ | | | | | | |
| Local Model Hou | | \checkmark | | | | | | |
| | ature, Subroutine, Fields within Action Diagram will be reported to user. n opt to not generate code for unused fields in Action Diagram. | | | | | | | |
| Certification | | | | | | | | |
| Oracle 19c | | | | | | | | |
| Windows Serve | r 2019 | | | | | | | |
| SQL Server 201 | 9 | | | | | | | |
| Deprecation | | | 1 | | | 1 | 1 | |
| Product License | e check removal | \checkmark | \checkmark | \checkmark | \checkmark | \checkmark | \checkmark | |
| Bug Fixes | | | | | | | | |
| <u>2495</u> | Fix to handle manual Grid sorting to refresh the current grid selection. | | \checkmark | | | | | |
| <u>2533</u> | Fix to handle duplicate field's edit and level control on panel. | \checkmark | | | | | | |

| <u>2556</u> | Fix to handle C++ build error 'msb3491'. | | \checkmark | \checkmark | | | |
|-------------|--|--------------|--------------|--------------|--------------|--------------|--------------|
| <u>2557</u> | Fix to avoid Plex IDE GPF while saving Action Diagram changes. | \checkmark | | | | | |
| <u>2558</u> | Fix to handle marking multiple comments & uncomments blocks in Action Diagram. | ✓ | | | | | |
| <u>2559</u> | Fix to handle oracle database error ORA-00920. | | | | \checkmark | | |
| <u>2561</u> | Fix to handle event sync in focus gain and focus lost events. | | | | ✓ | | |
| <u>2563</u> | Fix to handle C++ generator to avoid compilation error C4010. This occurs if there is a comment line ending with single '\' within source code object, which makes it continuation of comment line with generated C++ code. | ✓ | ~ | | ✓ | | ~ |
| <u>2564</u> | Fix to handle Meta Operation '++If Input Capable' for invisible checkbox. | | | | ✓ | | |
| <u>2565</u> | Fix to handle disabled button with image appearance correctly within inactive state. | | ✓ | | | | |
| <u>2566</u> | Fix to handle, Favorite object filter pattern while moving across multiple object types in Object Browser. Toggle favorite object button to show only favorite list or all list objects. | ~ | | | | | |
| <u>2567</u> | Fix to generate correct NULL values for "STE may be EQ VAL" triple. | \checkmark | | | | | \checkmark |
| <u>2568</u> | Fix to handle edit masks for Fixed decimal number to avoid keeping negative sign at the end of the number. | | ✓ | | | | |
| <u>2569</u> | Fix to remove 'calls FNC' triple only for selected function in model editor. | \checkmark | | | | | |
| <u>2570</u> | Fix to avoid nag license screen for VSFLEXGRID v8.0 ActiveX control. | | \checkmark | | | | |
| <u>2571</u> | Fix to handle field prompt processing correctly. | | | | | \checkmark | |
| <u>2572</u> | Fix to avoid garbled characters while deleting any character in edit control. This is specific to Japanese locale. | | ✓ | | | | |
| <u>2573</u> | Fix to handle Grid scrolling until the end of the grid. | | | | | \checkmark | |
| <u>2574</u> | Fix to handle Plex IDE control sizes when using DPI larger than 100%. | \checkmark | | | | | |
| <u>2575</u> | Fix to handle avoid marking inherited action diagram block (Function call & API call) changed without making any AD changes. | ✓ | | | | | |
| <u>2576</u> | Fix to avoid Plex IDE GPF while opening Inheritance Path. | \checkmark | | | | | |
| <u>2577</u> | Fix to avoid Java application while loading panel resources in few circumstances. | | | | ✓ | | |
| <u>2578</u> | Fix to delete 'calls FNC' triple in case of parent deleted in Action Diagram. | \checkmark | | | | | |

| 2579 | Fix to handle Java error 'java.sql.SQLException: Missing IN or OUT | | | \checkmark | | |
|-------------|--|--------------|--------------|--------------|--------------|--|
| | parameter at index:: #' while inserting database record with Blob field. | | | | | |
| <u>2580</u> | Fix to handle MFC Spin Control in case of setting Max/Min value. Refer | | \checkmark | | | |
| | problem record for more details. | | | | | |
| <u>2581</u> | Fix to handle WinWidget control processing for decimal point input. This | | \checkmark | | | |
| | occurs in few circumstances. | | | | | |
| <u>2582</u> | Fix to update the Object Browser search history across multiple object | \checkmark | | | | |
| | types, in case Object Browser has customized search filter string. | | | | | |
| <u>2583</u> | Fix to avoid logical event trigger on WPF grid's scrollbar double click. | | | | \checkmark | |
| <u>2584</u> | Fix to trigger update event on field's content deletion. This is specific to | | \checkmark | | | |
| | SingleLineEdit control with Winwidgets. | | | | | |
| <u>2585</u> | Fix to handle DPI issue with built application launched with Ob721RC.EXE. | \checkmark | \checkmark | | | |
| <u>2586</u> | Fix to load Image in Grid with long path (more than 128 characters). | | ✓ | | | |
| <u>2587</u> | Fix to handle 'If Focus' with Java structure field. | | | ✓ | | |
| 2589 | Fix to handle WPF edit control to allow decimal point. Refer problem | | | | \checkmark | |
| | record for more details. | | | | | |
| <u>2590</u> | Fix to handle single quote while preparing SQL statement in Java variant. | | | \checkmark | | |
| 2592 | Fix to handle event processing while launching multiple dialog windows | | ✓ | | | |
| | via Top Windows. | | | | | |
| <u>2593</u> | Fix to avoid Plex IDE GPF while saving Action Diagram. | \checkmark | | | | |
| <u>2594</u> | Fix to handle 'If Focus' within WinC Grid. | | ✓ | | | |
| <u>2595</u> | Fix to handle field prompt processing in few circumstances. | | ✓ | | | |
| <u>2596</u> | Enhancement to encrypt the database password in Java properties files. | ✓ | | ✓ | | |
| 2597 | Fix to avoid Plex Java generator GPF wherein EXTERNAL_NAME operator | \checkmark | | | | |
| | used without view variable. Plex reports warning in such scenarios. | | | | | |
| 2598 | Fix avoid Java dispatcher hang by spurious calls from unknown client like | 1 | | ✓ | | |
| | Telnet etc. | | | | | |
| <u>2599</u> | Fix to avoid launching multiple prompt functions for single prompt | | | | \checkmark | |
| | request in WPF. | | | | | |
| <u>2600</u> | Fix to handle duplicate row with misaligned data in WPF grid. | | | | \checkmark | |
| <u>2601</u> | Fix to show status bar information correctly in Java variant. | | | \checkmark | | |
| <u>2602</u> | Fix to handle Set State Grid and Append Grid statement to work correctly. | | | | \checkmark | |
| L | | 1 | | | | |

| <u>2603</u> | Fix to handle Selected Grid row with Refresh Grid processing. | | | | | \checkmark | | |
|--|--|-----------------------|--------------|--------------|--------------|--------------|--------------|--|
| <u>2604</u> | Fix to handle WCF exception 'System.Data.DuplicateNameException'. | | | | | \checkmark | | |
| <u>2605</u> | Enhancement to enable Java SSL client authentication. Refer problem record for more details. | | | | ✓ | | | |
| <u>2606</u> | Fix to handle long path values in application INI entry 'DLL directory path' & 'PNL directory path'. | | ✓ | | | | | |
| <u>2607</u> | License removed for all licensed components of CA Plex. | \checkmark | \checkmark | \checkmark | \checkmark | \checkmark | \checkmark | |
| <u>2609</u> | Fix to handle Tabbing focus for CheckBox in few circumstances. | | \checkmark | | | | | |
| <u>2610</u> | Fix to handle function call mapping in inherited functions in few circumstances. | ✓ | | | | | | |
| (024.004) | Refresh Pack | | | | | | | |
| after deleting the Now, automatica | y resolves the known limitation of removing the ' <i>calls FNC</i> ' triple manually e respective function call from Action Diagram. ally ' <u>calls FNC</u> ' triple gets removed for deleted call(s) as and when ion call gets deleted in Action Diagram. | ~ | | | | | | |
| This functionality 'CTRL+A' keycod | y extends the tool's ability to select entire text in source code editor with e. | ✓ | | | | | | |
| single Action Dia Now, tool extend | y resolves the known limitation of commenting & uncommenting only gram block in single operation. ds the functionality to comment & uncomment multiple selected blocks in n single operation. | ✓ | | | | | | |
| Provision to set o this is set to '*' t | Action Diagram in single operation. Provision to set customized search filter pattern for Object Browser search pattern. So far this is set to '*' that takes long time to list out all objects of selected object type while opening large models. | | | | | | | |
| - | x.INI option for customized search pattern. The search pattern string 4 characters length. | | | | | | | |
| [Object Browser] Object Browser I |] Default Search Pattern=* | | | | | | | |

| | rk required object(s) as your favorite object(s). This creates a list object type he name '< ModelUserName >_favList' having no expiry date. | ~ | | | | | |
|-------------------------------------|--|--------------|--------------|---|-----------------------|---|---|
| For quick acces user directly to | s, new icon 🙀 has been added in Object Browser window which takes favorite list. | | | | | | |
| - Object | rorites' option is available from, 's context menu t' tool menu. | | | | | | |
| (024.003) | | | | | | | |
| <u>2528</u> | Fix to handle Java generator to avoid generating unreachable code which leads into compilation error - "unreachable statement". | ~ | | | ✓ | | √ |
| <u>2529</u> | Fix to save Action Diagram (AD) statement permanently while deleting AD statement like Call/Comment within multi-level & version environment. | ✓ | | | | | |
| <u>2531</u> | Fix to handle WinC application error ' <i>The Parameter is incorrect</i> ' followed by application crash in case of using IBM-I profile name with length of 10. | | ✓ | | | | |
| <u>2533</u> | Fix to handle field's duplicate label and edit control in inherited function. | \checkmark | | | | | |
| <u>2534</u> | Fix to avoid Plex IDE crash while accessing ActiveX properties. | \checkmark | | | | | |
| <u>2535</u> | Fix to avoid memory build up while casting between fixed decimal & double. | | ~ | ~ | | | |
| <u>2536</u> | Fix to avoid IBM-I dispatcher error – 'spawn() failed.: Storage allocation request failed.'. | | | | | ~ | |
| <u>2537</u> | Fix to clear ComboBox with '++set empty' meta code, if ComboBox selected item gets re-selected. | | | | ~ | | |
| <u>2538</u> | Fix to handle data exchange properly within WinC runtime and ActiveX control. This is being controlled by application INI. For more details, please refer problem record <u>2538</u> . | | ~ | | | | |
| <u>2539</u> | Fix to invoke correct WinC selector function. | | \checkmark | | | | |
| <u>2540</u> | Fix to handle Java Grid's vertical/horizontal scrolling properly. | | | | ✓ | | |
| <u>2541</u> | Fix to handle tabbing within ActiveX control hosted on panel. | | \checkmark | | | | |
| <u>2542</u> | Fix to store correct value in database with SQL field as <i>Numeric</i> & <i>C Format Fixed_Decimal</i> . | | ~ | ~ | | | |
| <u>2543</u> | Fix to save Action Diagram parameter overriding in higher level/version. | \checkmark | | | | | |
| <u>2544</u> | Fix to avoid WinC application crash with Home, Delete or arrow keys. | | \checkmark | | | | |

| <u>2545</u> | Fix to handle Panel layout generation correctly irrespective of panel loading at design time before generation. This occurs in few circumstances. | ~ | √ | | | | ✓ |
|-------------|---|--------------|-----------------------|--------------|--------------|---|--------------|
| <u>2546</u> | Fix to refresh Java grid's header with respect to horizontal scroll. | | | \checkmark | | | |
| <u>2547</u> | Fix to show full text for static control on Java panel. In case of static text starting with letter 'W' having font 'MS Sans Serif' & size '8' – left side of character 'W' gets partially visible. | | | ✓ | | | |
| <u>2548</u> | Fix to launch WinC function from Plex IDE without creating EXE. | \checkmark | | | | | |
| <u>2549</u> | Fix to include Server function(s) within Server package while running packager tool. | ~ | | | | | |
| <u>2550</u> | Fix to keep backward compatibility for WinC application DPI awareness compared to earlier release of Plex. Plex r7.2 WinC application works fine with 150% DPI but Plex r7.2.1 built application fails. | ~ | ~ | | | | ~ |
| <u>2551</u> | Fix to handle RPG generator to generate compiler directives correctly defined as part of custom source code object. For more details, please refer problem record <u>2551</u> . | ~ | | | | ~ | ~ |
| <u>2552</u> | Fix to handle Java runtime exceptions correctly to avoid resource leaks. For more details, please refer problem record <u>2552</u> . | | | ✓ | | | |
| (024.002) | | | | | | | |
| <u>2476</u> | Fix to handle Grid save placement changes, when there is a change in grid design e.g. new column added to grid. | | | | \checkmark | | |
| <u>2479</u> | Fix to handle date input with MFC Native control. For more details, please refer problem record <u>2479</u> . | | ✓ | | | | |
| <u>2490</u> | Fix to handle Tabbing while moving focus to child panel. | | \checkmark | | | | |
| <u>2491</u> | Fix to handle programmatic sort with WinC editable grid. | | \checkmark | | | | |
| <u>2492</u> | Plex template Build file (PLEX.BLD) updated with an entry for EJB interface type selection. | ~ | | ✓ | | | |
| <u>2493</u> | Fix to avoid throwing exception in EJB within remove method. | \checkmark | | \checkmark | | | \checkmark |
| <u>2494</u> | Fix to improve performance with Code library wizard. | \checkmark | | | \checkmark | | |
| <u>2495</u> | Fix to raise record switch event with respect to manual grid sorting. | | \checkmark | | | | |
| <u>2496</u> | Fix to save WinC Build option - "Header Directories" under "Pre-Build C++ Libraries" section in model build file. | ~ | | | | | |
| <u>2497</u> | Enhance DDS generator to avoid generating field with <u>Exist</u> property set to No. | ✓ | | | | ✓ | \checkmark |

| <u>2499</u> | Enhancement to define higher precedence of triple FNC located on NME | \checkmark | | | | | \checkmark | \checkmark |
|-------------|---|--------------|--------------|--------------|--------------|---|--------------|--------------|
| | over PKG located on NME. For more details, please refer problem record 2499 . | | | | | | | |
| <u>2500</u> | Fix to handle WinC application GPF in Win Widget control with cursor keys. | | \checkmark | | | | | |
| <u>2501</u> | Fix to show correct field edit mask color for both single instance and grid region in Java. | | | | \checkmark | | | |
| <u>2502</u> | Fix to avoid compiler error "C2181: illegal else without matching if " in case of 'Generate for Action Diagram debugging' enabled. | ✓ | √ | | | | | ✓ |
| <u>2503</u> | Fix to handle tabbing within child panel. | | \checkmark | | | | | |
| <u>2504</u> | Enhance Java exception reporting for ObApplication.handleException method. | | | | ✓ | | | |
| <u>2505</u> | Fix to handle meta variable replacement correctly. | \checkmark | | | | | | |
| <u>2506</u> | Fix to report warning message when using numeric field with decimal places with Use statement. | ~ | | | | | | |
| <u>2507</u> | Fix to handle RPG generator crash while generating function with large call graph. | ~ | | | | | ~ | |
| <u>2508</u> | Fix to address the C++ COM connector build failure. | \checkmark | \checkmark | \checkmark | | | | |
| <u>2509</u> | Fix to handle tabbing issue with editable Grid combo box. | | \checkmark | | | | | |
| <u>2510</u> | Fix to handle Tabbing issue with FrameChild functions with property "Tab From Parent" is set to "Yes". | | ✓ | | | | | |
| <u>2511</u> | Fix to handle Plex Java generator GPF with a function which has moved to a new package structure. | ~ | | | ✓ | | | ✓ |
| <u>2512</u> | Fix to handle CheckedTimeISO field to insert user defined date in to database e.g. source code object. For more details, please refer problem record 2512. | | | | | ~ | | |
| <u>2513</u> | Fix to handle Fixed decimal parameter casting within WinNTC ExecSQL statement. For more details, please refer problem record 2513 . | | | ~ | | | | |
| <u>2514</u> | Fix to improve parameter mapping s for function Call, API CALL, Message etc. in multiple level/version environment. | ~ | | | | | | |
| <u>2515</u> | Fix to not loose field local property in multiple level/version environment while saving the changes. For more details, please refer problem record 2515 . | ~ | | | | | | |
| 2516 | Fix to resolve inherited attribute property correctly. | \checkmark | | | | | | |

| <u>2517</u> | Fix to handle scrolling properly to show located row in grid. | | | | \checkmark | | | |
|-------------|--|--------------|--------------|---|--------------|-----------------------|--------------|---|
| <u>2518</u> | Fix to validate the input before converting large scientific number into string. | | | | ✓ | | | |
| <u>2519</u> | Fix to process grid manual sorting to update grid's internal states properly. | | | | | ~ | | |
| <u>2520</u> | Fix to avoid application freezing in few circumstances while closing Dialog window with close button. | | | | | ~ | | |
| <u>2521</u> | Fix to show objects from main package as well when there is sub package. | \checkmark | | | | | | |
| <u>2522</u> | Fix to handle Long Double assignment to Fixed decimal in few circumstances. | | √ | ✓ | | | | |
| <u>2523</u> | Fix to handle Java Grid page down/up events to scroll grid rows properly. | | | | \checkmark | | | |
| <u>2524</u> | Fix to improve performance while trimming the space within string field. | | | | \checkmark | | | |
| <u>2525</u> | Fix to improve memory footprint within CodeJock ActiveX control usage. | | \checkmark | | | | | |
| <u>2526</u> | Fix to improve CodeJock active control handling within WinC runtime. | | \checkmark | | | | | |
| (024.001) | | | | | | | | |
| <u>2448</u> | Fix to highlight the MFC checkbox control on set focus. | | \checkmark | | | | | |
| <u>2463</u> | Fix to handle date field input validation. | | | | \checkmark | | | |
| <u>2464</u> | Fix to handle Plex GPF in model editor with space bar key. | \checkmark | | | | | | |
| <u>2465</u> | Fix to avoid Plex C++ generator crash in few circumstances with conditional block. | ~ | | | | | | |
| <u>2466</u> | Fix to avoid firing select event in case of Grid Reload. | | \checkmark | | | | | |
| <u>2467</u> | Fix to handle casting (numeric-char) correctly with different locale. | | | | | | \checkmark | |
| <u>2468</u> | Fix to suppress the import informational message XIE59844. | \checkmark | | | | | | |
| <u>2469</u> | Fix to terminate EJB properly after execution completes. | | | | \checkmark | | | |
| <u>2470</u> | Fix to C# runtime to avoid showing window in minimize state. | | | | | \checkmark | | |
| <u>2471</u> | Fix to provide <i>AllowDefaultWindowLoadOrder</i> C# configuration (<app>.exe.config) property to change the load order of windows to avoid application loading exceptions.</app> | | | | | ✓ | | |
| <u>2472</u> | Fix to save Panel element (fields) positions correctly in few circumstances. | \checkmark | | | | | | |
| <u>2473</u> | Fix to provide Plex.INI option to control EJB Local v/s Remote interface generation. For more details, please refer problem record 2473. | ✓ | | | √ | | | ~ |

| <u>2475</u> | Fix to avoid NullPointerExcetion exception while logging errors. | | | | \checkmark | | |
|-------------|---|--------------|--------------|--------------|--------------|--------------|-----------------------|
| <u>2477</u> | Fix to avoid WCF Service Generator import problem. For more details, please refer problem record 2477. | ✓ | | | | ✓ | \checkmark |
| <u>2478</u> | Fix to avoid Plex C++ generator GPF in few circumstances. | ✓ | | | | | ✓ |
| <u>2480</u> | Fix to avoid generating junk characters for C# function of type OBASE/Check status. | \checkmark | | | | | \checkmark |
| <u>2481</u> | Fix to generate Post build events correctly for C++ functions. | \checkmark | \checkmark | \checkmark | | | ✓ |
| <u>2482</u> | Fix to enable Trigraph support with C++ functions. By default, Trigraph support is no enabled with Visual Studio 2013. | \checkmark | √ | ~ | | | \checkmark |
| <u>2483</u> | Fix to assign date value via C# source code object. | | | | | \checkmark | |
| <u>2484</u> | Fix to avoid Panel freeze after returning immediately after selecting date from date picker. | | | | | ~ | |
| <u>2485</u> | Fix to avoid Plex IDE GPF while expanding C# package object. | \checkmark | | | | | |
| <u>2486</u> | Fix to improve group model extract/update performance. | \checkmark | | | | | |
| <u>2487</u> | Fix to improve performance of Action Diagram copy/paste, drag/drop operations. | ✓ | | | | | |
| <u>2488</u> | Fix to update 'FIELDS/WizardCaption' message object in Fields Pattern library to have similar message text across all language variants. | \checkmark | | | | | |
| <u>2489</u> | Fix to avoid Plex GPF in case of dragging Java function (having implementation name more than 30 characters) into Gen & Build window. | √ | | | | | |

Appendix 1: Using FTP to transfer a .SAVF file to your IBM i server

Open a command prompt and enter each of the following commands in turn, followed by Enter:

FTP <ibm-i>
<user-profile>
<password>
BIN
LCD C:\Temp
CD QGPL
QUOTE SITE NAMEFMT 1
PUT P721024nnn.SAVF P721024nnn.SAVF
QUIT

Where <ibm-i>, <user-profile> and <password> are replaced by the name or IP address of your IBM i, your IBM i user profile and your IBM i password, respectively; and 'nnn' denotes the PTF build number.