



WebSphere Product Center, Version 5.3.2  
Release Notes for Interim Fix 7

Note!

Before using this information and the product it supports, read the information in “Notices” at the end of this document.

29 February 2008

This edition of this document applies to WebSphere Product Version, Version 5.3.2 Interim Fix 7, and to all subsequent releases and modifications until otherwise indicated in new editions.

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# Table of Contents

<b>1. About this release</b> .....	<b>2</b>
1.1 Product fixes in the current Interim Fix .....	2
<b>2. Product fix history</b> .....	<b>3</b>
2.1 Fixes from WPC Version 5.3.2, Fix Pack 7 .....	3
2.2 Fixes from WPC Version 5.3.2, Fix Pack 6 .....	9
2.3 Fixes from WPC Version 5.3.2, Fix Pack 5 .....	12
2.4 Fixes from WPC Version 5.3.2, Fix Pack 4 .....	19
2.5 Fixes from WPC Version 5.3.2, Fix Pack 3 .....	22
2.6 Fixes from WPC Version 5.3.2, Fix Pack 2 .....	25
2.7 Fixes from WPC Version 5.3.2, Fix Pack 1 .....	30
2.8 Fixes from WPC Version 5.3.2, Interim Fix 6 .....	53
2.9 Fixes from WPC Version 5.3.2, Interim Fix 5 .....	54
2.10 Fixes from WPC Version 5.3.2, Interim Fix 4 .....	54
2.11 Fixes from WPC Version 5.3.2, Interim Fix 3 .....	55
2.12 Fixes from WPC Version 5.3.2, Interim Fix 2 .....	55
2.13 Fixes from WPC Version 5.3.2, Interim Fix 1 .....	63
<b>3. Issues and limitations</b> .....	<b>64</b>
<b>4. Requirements</b> .....	<b>66</b>
4.1 Prerequisites .....	66
4.2 Database schema modifications .....	66
4.3 Property file changes .....	70
4.3.1 Changes to common.properties file .....	70
<b>5. Installing this fix pack</b> .....	<b>72</b>
5.1 Preparing to install this fix pack .....	72
5.1.1 Stopping the WPC application on the local server .....	72
5.1.2 Backing up your system .....	73
5.2 Applying the fix pack .....	73
5.2.1 Unpacking the tar file .....	73
5.2.2 Running the application server script .....	74
5.2.3 Running the analyze_schema.sh script .....	74
5.3 Verifying the installation .....	75
5.3.1 Starting WebSphere Product Center .....	75
5.3.2 Starting the WPC Services .....	76
5.3.3 Verifying the installation .....	76
5.3.4 Complete migration .....	77
<b>6. Notices</b> .....	<b>78</b>

# 1. About this release

This document addresses product fixes, documentation defects, installation, and migration instructions, and other updated information for WebSphere Product Center Version 5.3.2, Interim Fix 7.

## 1.1 Product fixes in the current Interim Fix

WebSphere Product Center Version 5.3.2, Interim Fix 7 includes the fixes listed in the following table. The synopsis of each defect includes the abstract, a problem description, and customer workarounds if applicable.

TRACKING NUMBER	APAR	PMR	SYNOPSIS
WPC00033342	JR28480	16979	<p><b>Abstract:</b> The buttons needed to work with multi-occurring attributes are not aligned in a row and are spread over several lines. This makes the item edit screen appear less user-friendly.</p> <p><b>Problem:</b> The buttons were placed in several lines due to which less attributes fit in a screen.</p> <p><b>Solution:</b> A code fix is provided to align the buttons in a horizontal line.</p> <p><b>Customer impact:</b> N/A</p>
WPC00033387	JR28521	17361	<p><b>Abstract:</b> Implement temp common.properties switch to disable fix for JR27548 in order to allow customer to adopt scripts to new behavior</p> <p><b>Problem:</b> The fix for APAR JR27548 fixed a bug in the behavior of the saveCtgItem script operation, namely, when applied to items in collaboration areas, the inconsistency of its behavior, compared to a Save click “in the GUI”, i.e. a Save click in the DataEntry screens on a workflow step in an item workflow.</p> <p><b>Solution:</b> A new boolean property is added to common.properties, called: tmp_suppress_86946</p> <p>with default value “false”. If it is set to true, then the entire fix is disabled, thereby restoring the old behavior</p> <p><b>Customer impact:</b> None, unless the customer chooses to use the new property in common.properties</p>
WPC00033281	JR28399	16327	<p><b>Abstract:</b> Deleting subspec nodes does not work from updates done via import.</p> <p><b>Problem:</b> All update imports of subspecs where nodes have been deleted would fail.</p> <p><b>Solution:</b> WPC now correctly handles deleting subspec nodes via import.</p> <p><b>Customer impact:</b> None</p>

## 2. Product fix history

This section includes several tables that contain the list of fixes for previous WPC maintenance releases.

### 2.1 Fixes from WPC Version 5.3.2, Fix Pack 7

TRACKING NUMBER	APAR	PMR	SYNOPSIS
WPC00033247	JR28381	40456	<p><b>Abstract:</b> UI crashes when displaying some items</p> <p><b>Problem:</b> Some items in the main catalog have corrupted the "save as draft" validation reminders. These were likely created in a previous release where "save as draft" was combined with a spec change and could cause these issues.</p> <p><b>Solution:</b> Program ignores the corrupted save as draft validation reminders.</p> <p><b>Customer impact:</b> N/A</p>
WPC00033215	JR28359	46654	<p><b>Abstract:</b> When returning enumeration values using the Java API, the values for the enumeration are returned in the wrong node.</p> <p><b>Problem:</b> When returning enumeration values using the Java API, the values for the enumeration are returned in the wrong node.</p> <p><b>Solution:</b> Issue is fixed and now returns the values under the correct node.</p> <p><b>Customer impact:</b> N/A</p>
WPC00033176	JR28338	20678	<p><b>Abstract:</b> Entry preview script popup window can not run do to JavaScript error.</p> <p><b>Problem:</b> When entry preview script popup window is brought up from the single item edit page, after the user enters input parameters and clicks the "run" button, an error message appears in the popup window status bar indicating JavaScript error.</p> <p><b>Solution:</b> Check if a preview script has parameters and don't use the "normal", slow renderer if this is the case so that all the required JavaScript is present.</p> <p><b>Customer impact:</b> The performance of preview scripts that have parameters will be similar to the performance of preview scripts in Fix Pack 5, before the changes were made to improve their performance.</p>
WPC00033121			<p><b>Abstract:</b> Editing a master spec, which has a sub-spec owned grouping node, can lead to an inconsistent state.</p> <p><b>Problem:</b> Prior to this WPC fix pack, it was possible, while editing a primary or secondary spec that have one or more attached sub-specs, to delete all the nodes that were subordinate to a sub-spec "owned" grouping node. The</p>

TRACKING NUMBER	APAR	PMR	SYNOPSIS
			<p>operation is not supported by WPC.</p> <p><b>Solution:</b> The “bin” symbol (located to the right of the node) will not be shown for the last node subordinate to a sub-spec “owned” grouping node when editing primary or secondary specs – preventing the unsupported action from being taken.</p> <p><b>Customer impact:</b> If you need to remove the last remaining node, as described above, remove the grouping node instead. If you put an alternative node to the one present below a grouping node, add the additional node before deleting the original node.</p>
WPC00033087			<p><b>Abstract:</b> Slow UI performance caused by loading too many JS files.</p> <p><b>Problem:</b> Unnecessary, JS libraries were being loaded.</p> <p><b>Solution:</b> Rendering code revised to skip unnecessary libraries.</p> <p><b>Customer Impact:</b> N/A</p>
WPC00033085	JR28248	65146	<p><b>Abstract:</b> Migration script CollAreaMigration_StepOne.sh results in a NullPointer exception.</p> <p><b>Problem:</b> One record was missing from the OAC table and thus the migration was failing.</p> <p><b>Solution:</b> The shell script CollAreaMigration_StepOne.sh is not used any more. Instead, the steps for migration are provided in the Migration section of the release notes.</p> <p><b>Customer Impact:</b> The customer should follow the provided steps for a successful migration.</p>
WPC00033084	JR28250	65146	<p><b>Abstract:</b> Migration script CollAreaMigration_StepOne.sh results in warnings that some messages IDs are missing.</p> <p><b>Problem:</b> Various message elements were removed during the FP development but were not changed in locale files.</p> <p><b>Solution:</b> Changed all the locale specific files so that no unnecessary warnings occur.</p> <p><b>Customer Impact:</b> The customer will not see any more warnings when the script is used in other locales.</p>
WPC00033077	JR28234	09928	<p><b>Abstract:</b> Setting of values for Lookup Table attribute within grouping nodes might fail in Multi-Edit screen.</p> <p><b>Problem:</b> In the Multi-Edit screen, if the user attempts to use the Set All Checked Entries feature for a Lookup Table attribute in a grouping node with a minimum occurrence of zero, and the first item or category shown does not have an occurrence of the grouping node, then the relevant cells will be populated with the internal numeric ID of the lookup row instead of the primary key. This will cause a validation error when the user attempts to save the entries.</p> <p><b>Solution:</b> A code fix has been provided to solve the issue.</p> <p><b>Customer impact:</b> N/A</p>
WPC00033069			<p><b>Abstract:</b> Import of Catalog Content and Hierarchy Content fails due to the presence of relationship attributes</p> <p><b>Problem: a)</b> Customer reported problem: It is not possible to</p>

TRACKING NUMBER	APAR	PMR	SYNOPSIS
			<p>import the content of Catalogs and Hierarchies if there are Relationship Attributes present in the spec.</p> <p><b>b) Actual problem:</b> Erroneous check for RELATIONSHIP attributes.</p> <p><b>Solution:</b> A code fix has been provided to solve the issue.</p> <p><b>Customer Impact:</b> Users have to run the following command to update the Catalog import script and Hierarchy import Script to the corrected version. Run this when the WPC instance is running for every existing company. This need not be run for any new companies that are created after installing this fix pack.</p> <pre>\$JAVA_RT com.ibm.ccd.docstore.util.DocLoader - companycode=&lt;company_code&gt; - xmlfile=\$TOP/src/db/scripts/common/migrate_common_scripts.xml</pre> <p>With the new scripts, the migration of both items and categories with relationship attributes requires a 2 step process:</p> <ol style="list-style-type: none"> <li>1. Use Import environment to import the zip file. (The relationship attributes are not populated but items/categories are imported.)</li> <li>2. To complete the import, run the following shell script: \$TOP/bin/importRelationshipsAsCompany.sh (The relationship attributes are now populated.)</li> </ol>
WPC00033053	JR28190	40454	<p><b>Abstract:</b> Primary key of type <i>sequence</i> in the item search returns an empty result set.</p> <p><b>Problem:</b> If a catalog has a primary key of type <i>sequence</i>, then an Item Search done from the Show On-Demand Search in the left nav pane returns an empty result set.</p> <p><b>Solution:</b> Make an additional check to know the exact type and generate the query accordingly for the specific type.</p> <p><b>Customer Impact:</b> On-Demand Search returns appropriate result when used with catalog that has primary key of type <i>sequence</i>.</p>
WPC00033042	JR28181	40430	<p><b>Abstract:</b> Viewable attribute value not being refreshed in UI when 'Save' is clicked.</p> <p><b>Problem:</b> When there is an item in the parallel step with a viewable attribute and a post processing script is associated with the corresponding catalog, then upon clicking a 'Save', the updated values are not reflected in the UI immediately.</p> <p><b>Solution:</b> A code fix has been provided to resolve this issue.</p> <p><b>Customer Impact:</b> Customer will be able to see the changed values of the viewable attribute after the post processing script runs.</p>
WPC00033033			<p><b>Abstract:</b> Extending a sub-spec leaf node to become a group node in a master spec either primary or secondary.</p> <p><b>Problem:</b> Though the operation is not supported by WPC, it was possible to make an attempt to extend a spec by converting a leaf node into a group node from within a primary or secondary spec, even though the group node is owned by a sub-spec.</p>

TRACKING NUMBER	APAR	PMR	SYNOPSIS
			<p><b>Solution:</b> When editing primary or secondary specs, the + symbol that is located to the right of the node, will not be shown for any sub-spec owned leaf nodes to prevent any unsupported actions from being attempted.</p> <p><b>Customer impact:</b> a) If you need to introduce an additional level of grouping to all the primary or secondary specs that have been attached to a sub-spec:</p> <ol style="list-style-type: none"> <li>1. Edit the sub-spec accordingly.</li> <li>2. Reattach the sub-spec to each attached master spec.</li> </ol> <p>b) If you need to introduce an additional level of grouping only in the current primary or secondary spec being edited, there are two choices.</p> <ol style="list-style-type: none"> <li>1. Add the level of grouping locally to the spec being edited.</li> <li>2. Add additional leaf nodes to grouping nodes that are already present in the primary or secondary spec</li> </ol>
WPC00033020	JR28161	44369	<p><b>Abstract:</b> The value of attributes of relationship type is not shown in the workflow item differences/ history popup screen.</p> <p><b>Problem:</b> This feature was not provided by WPC.</p> <p><b>Solution:</b> The solution is to enable the display of the related item's primary key in the workflow item differences/ history popup screen.</p> <p><b>Impact to customers:</b> The customer will now be able to view the name of the relationship type attribute along with the related item's primary key and catalog name.</p>
WPC00033009	JR28130	08970	<p><b>Abstract:</b> Item edit screen will not retain the picked values for attributes of type enumeration when switching tabs before saving item.</p> <p><b>Problem:</b> In the item edit screen, if a user switches between one of the multiple tabs without an interim save, any modified attribute values of String type enumeration will be reset back to the value of the last interim save.</p> <p><b>Solution:</b> A code fix has been provided to solve the issue.</p> <p><b>Customer impact:</b> When tabs are switched, any modified value is maintained for String enumeration Type.</p>
WPC00033006	JR28122	42220	<p><b>Abstract:</b> For each user defined log entry, the API generates script errors.</p> <p><b>Problem:</b> When using the script API <code>forEachUserDefinedLogEntry</code> in the scripting sandbox, an error is generated in the sandbox output if the <code>script_execution_mode</code> is set to either, <code>compiled_only</code> or <code>compiled_if_available</code>. This applies to both setting the <code>script_execution_mode</code> in <code>common.properties</code> file and adding it to the beginning of the script.</p> <p><b>Solution:</b> The generated java code corresponding to these script ops have been corrected.</p> <p><b>Customer Impact:</b> N/A</p>
WPC00033005	JR28120	44370	<p><b>Abstract:</b> How to restrict some of the attributes displayed in the workflow history popup?</p> <p><b>Problem:</b> There was no check made to determine if any access privilege has been defined on the catalog in the</p>



TRACKING NUMBER	APAR	PMR	SYNOPSIS
			collaboration area. <b>Solution:</b> A code fix has been provided to resolve this issue. <b>Customer impact:</b> N/A
WPC00032998	JR28105	16820	<b>Abstract:</b> The copy functionality in the left navigation pane is not available when the hierarchy option "items only on leaves" is enabled. <b>Problem:</b> The copy functionality in the left navigation pane is not available when the hierarchy option "Items only on leaves" is enabled. <b>Solution:</b> A code fix has been provided to solve the issue. <b>Customer impact:</b> N/A
WPC00032997	JR28104	16825	<b>Abstract:</b> A basic search with either the <i>AND</i> or the <i>OR</i> operator for date attributes returns invalid results. <b>Problem:</b> A basic query using either the <i>AND</i> or the <i>OR</i> operators to search for multiple date attributes provides incorrect results when the attribute that is being searched are non-indexed. <b>Solution:</b> A code fix has been provided to solve the issue. <b>Customer impact:</b> N/A
WPC00032996	JR28102	75322	<b>Abstract:</b> getCtgItemByAttributeValue() will not return correct result set when searching for attribute values containing the " " character. <b>Problem:</b> getCtgItemByAttributeValue() failed to return the result set when searching for attribute containing a single quote character. <b>Solution:</b> The code has been modified to enable the search. <b>Customer Impact:</b> They can use getCtgItemByAttributeValue() to get the correct result set.
WPC00032995	JR28099	36778	<b>Abstract:</b> Performance degradation when using the left nav in WPC. <b>Problem:</b> CPU utilization increases linearly depending on how many containers are open in the left nav. This high CPU load causes a reduction in performance speed in all page actions, including page actions like the right mouse click menu options in the left nav and the main menu selections. <b>Solution:</b> A code fix was provided to eliminate the reduced performance of the application UI due to the number of open containers in the left nav. <b>Customer impact:</b> N/A
WPC00032985	JR28089	65019	<b>Abstract:</b> Slow performance to display popup window for lookuptable attributes <b>Problem:</b> Performance is slow to display the popup window for users to modify lookuptable attribute values. <b>Solution:</b> Remove JavaScript code that was not required by this screen and was slowing it down. <b>Impact to customers:</b> Performance improvement should be noticed.
WPC00032939	JR28060	03115	<b>Abstract:</b> If a secondary spec is modified after already

TRACKING NUMBER	APAR	PMR	SYNOPSIS
			<p>associating it with a category, then any changes made in the workflow are not saved.</p> <p><b>Problem:</b> To recreate the error: Create a primary spec, secondary spec, workflow collaboration area, and catalog so that the workflow has some step scripts that can modify an item. Then create 2 items. Once able, add one more attribute to the secondary spec. Now, when another item is checked out another item, the error occurs.</p> <p><b>Solution:</b> We have max_spec_timeout parameter specified in the common properties. The parameter value is in minutes, and allows a fractional value that can be set to a lower value. The default value is 1.0 and can be set to 1.9, .01, .05, etc. based on how frequently the specs are changed in the customer environment.</p> <p><b>Customer impact:</b> N/A</p> <p><b>Known limitation:</b> Please see the <a href="#">Issues and limitations</a> section.</p>
WPC00032908	JR27995	08113	<p><b>Abstract:</b> Scripts for db dump export and db dump import will be prepared for customer support.</p> <p><b>Problem:</b> Scripts to export and import the db schema for db2 are needed for customers.</p> <p><b>Solution:</b> Created the db2 export and import scripts for use by customers.</p> <p><b>Customer impact:</b> Customers can use the scripts in \$TOP/src/db/scripts/backup to transfer the complete db to new db server / db user.</p>
WPC00032885	JR27974	85180	<p><b>Abstract:</b> In sandbox, the association of a build script to a Collaboration Area, breaks upon a refresh of either the Collaboration Area or workflow.</p> <p><b>Problem:</b> If the Collaboration Area is refreshed, or the workflow is either edited or used by the collaboration area, the Collaboration Area "forgets" that it has a build script.</p> <p><b>Solution:</b> A code fix has been provided to solve the issue.</p> <p><b>Customer impact:</b> Users will have to re-associate Collaboration Areas with Entry Build Scripts. Once the script to associate an EBS and Collaboration Area is ran, it will not be necessary to run an association script after refresh, re-login, nor workflow changes.</p>
WPC00032853	JR27939	43934	<p><b>Abstract:</b> create_schema.sh fails with ORA-01031: insufficient privileges when try ot to use user-defined tablespace names on Oracle.</p> <p><b>Problem:</b> Failure in the code that controls substitution of tablespace names when the option to use alternative tablespace names on the create_schema command is run. The results is that the WPC specific "dual" table is not created appropriately. Subsequent attempts to run create_schema verified the table "dual" cannot be dropped since it was not created and is the reason for the Oracle message: 3502:ORA-01031: insufficient privileges</p> <p>The Oracle system "dual" table was being used as the target of the drop command and the user will not have rights to drop</p>

TRACKING NUMBER	APAR	PMR	SYNOPSIS
			<p>that table.</p> <p><b>Solution:</b> Ensure that a table named “dual” is created appropriately.</p> <p><b>Customer impact</b> Running an Oracle system, if you have created a schema using an alternative tablespace name for the table “dual” and wish to recreate a WPC schema, before recreating the WPC schema, you must first create a table named “dual” in the tablespace in which you originally assigned the “dual” table to. Otherwise, there is no impact.</p>
WPC00032194	JR27271	82253	<p><b>Abstract:</b> Modifying the grouping name gives an error.</p> <p><b>Problem:</b> After being associated with a master spec, either primary or secondary, all attempts to modify the attributes of a sub-spec result in a NullPointerException being thrown.</p> <p><b>Solution:</b> A code fix has been provided to solve the issue.</p> <p><b>Customer impact:</b> Manipulation of sub-specs, specs that are attached to a master spec for actual use, can now be accomplished whether or not the sub-spec is attached to a master spec.</p> <p>Renaming leaf attribute nodes or group nodes will result in the change being replicated on any associated master specs. Sub-specs may be deleted once all associations with specs are severed, either by direct node manipulation of a master spec or via deletion of a master spec.</p> <p>Deleting a sub spec node will result in the corresponding node in any associated master specs being deleted also.</p>

## 2.2 Fixes from WPC Version 5.3.2, Fix Pack 6

TRACKING NUMBER	APAR	PMR	SYNOPSIS
WPC0033063	JR28219	86116	<p><b>Abstract:</b> Import does not complete when using import/export tool</p> <p><b>Problem:</b> Import unsuccessful when the primary key of the hierarchy spec is of type sequence and is imported out of sequence</p> <p><b>Solution:</b> A code fix has been provided.</p> <p><b>Customer Impact:</b> Imports can be run successfully.</p>
WPC0033062	JR28221	86577	<p><b>Abstract:</b> Hierarchy content import fails if one imported entry already exists in hierarchy</p> <p><b>Problem:</b> Import of non duplicated entries fails when an existing entry in the hierarchy content is imported.</p> <p><b>Solution:</b> A code fix has been provided.</p> <p><b>Customer Impact:</b> Can successfully import hierarchy content when an entry already exists in the hierarchy.</p>
WPC00032986	JR28090	65068	<p><b>Abstract:</b> Slow performance of entry preview scripts. it takes some seconds to display even simple content</p>

TRACKING NUMBER	APAR	PMR	SYNOPSIS
			<p><b>Problem:</b> The entry preview popup contained the full header and footer html of the application.</p> <p><b>Solution:</b> The entry preview popup was changed to only include bare bones html and the refresh of the source entry edit page was disabled by default. A new common.properties option has been added to allow a refresh of the source entry from the entry preview script. If a source entry attribute value is changed the scripter can refresh the source entry page. For backward compatibility entries are refreshed after the script runs unless the option is specified as false in common.properties. The new option is included in the common.properties by default as false. Details of the new common.properties option:</p> <p># Controls if the entry edit page is refreshed after an entry preview popup is closed  # true = will refresh entry edit page when the popup is closed  # false = do not refresh entry edit page  entrypreview_refresh_entries_post_run=false</p> <p><b>Customer Impact:</b> The customer must review their entry preview scripts to determine if any of them require the source entry edit page to be refreshed. Depending on the findings the feature can be activated or disabled.</p>
WPC00032971	JR28062		<p><b>Abstract:</b> Environment export of collaboration areas should be possible in "UPDATE" mode</p> <p><b>Problem:</b> It was not possible to export Collaboration Areas in UPDATE mode although the UPDATE mode was supported while importing.</p> <p><b>Solution:</b> UPDATE mode has been enabled for the export of Collaboration Areas.</p> <p><b>Customer Impact:</b> Users can export and import Collaboration Areas in UPDATE mode subject to the documented limitation that the UPDATE mode is applicable to Collaboration Areas only on the following fields: Description, Access Control Group, Administrators, Timeout, and Delete when empty The update of the Container and Workflow of the Collaboration Area is not supported.</p>
WPC00032938			<p><b>Abstract:</b> Environment Export: Rule for export of the collaboration area content.</p> <p><b>Problem:</b> When there were no items in the collaboration area, the export failed.</p> <p><b>Solution:</b> Documentation has been provided that export of collaboration area content fails when there are no items in it.</p> <p><b>Customer Impact:</b> None</p>
WPC00032819	JR27919	07588	<p><b>Abstract:</b> Multi-edit screen usability issue when there are lots of attributes to display</p> <p><b>Problem:</b> The presence of double scrollbars when there are lot of tabs to be displayed in the multi-edit page.</p> <p><b>Solution:</b> A code fix has been provided to solve this issue.</p> <p><b>Customer Impact:</b> Customer can now view the multi-edit screen as intended without facing any problem of double scrollbars.</p>
WPC00032818	JR27918	44470	<p><b>Abstract:</b> UDL messages retrieved with dumpUserDefinedLog contain extra carriage returns if message string is &gt; some 3000 characters</p>

TRACKING NUMBER	APAR	PMR	SYNOPSIS
			<p><b>Problem:</b> When storing large message strings in User defined logs (UDL) extra "carriage returns" might have been contained after each 3000 characters in the message string once the message was retrieved with the method dumpUserDefinedLog().</p> <p><b>Solution:</b> Extra carriage return has been removed.</p> <p><b>Customer Impact:</b> None</p>
WPC00032728	JR27876	03041	<p><b>Abstract:</b> Error when compiling/running script with date parameter when script_execution_mode=compiled_only in common.properties</p> <p><b>Problem:</b> Certain script operations that take date parameters, if used in conjunction with certain other script operations, will cause script compilation to fail.</p> <p><b>Solution:</b> A code fix has been provided to correct the problem.</p> <p><b>Customer Impact:</b> None</p>
WPC00032695			<p><b>Abstract:</b> User associated to Role and ACG with full permissions cannot access screens</p> <p><b>Problem:</b> If a user was associated only with roles that did not include the Default Access Control Group, they were unable to perform any actions.</p> <p><b>Solution:</b> A code fix has been provided to correct the problem.</p> <p><b>Customer Impact:</b> Roles need no longer contain the Default Access Control Group.</p> <p>Limitation: Please see the Issues and Limitations section</p>
WPC00032658	JR27839	33656	<p><b>Abstract:</b> Redo log generation should be reduced</p> <p><b>Problem:</b> LCK table creates large amount of redo logs, due to large amount of updates, the redo logs get filled up.</p> <p><b>Solution:</b> Removed duplicate columns in LCK indexes and reduced without impacting the index structure</p> <p><b>Customer Impact:</b> Customers can see reduced redo log generation because of this fix.</p> <p>Migration: Run the following SQL scripts to implement this fix after shutting down WPC and backing up the DB.</p> <p>For DB2 \$TOP/src/db/schema/dbscripts/db2/tutl_lck_lock_indexes.sql</p> <p>For Oracle \$TOP/src/db/schema/dbscripts/oracle/tutl_lck_lock_indexes.sql</p>
WPC00032645	JR27831	42680	<p><b>Abstract:</b> Privileges can not be revoked in the right way.</p> <p><b>Problem:</b> Privileges could not be revoked in the right way. The updating of OGM table was not handled properly.</p> <p><b>Solution:</b> A code fix has been provided to resolve this issue</p> <p><b>Customer Impact:</b> The customer will be able to view the ACG in the drop down appropriately.</p>
WPC00032644	JR27830	76458	<p><b>Abstract:</b> getOriginalEntry() returns the latest item in a pre/post processing script and a post save script after removeCtgItemFromCategory() gets called.</p> <p><b>Problem:</b> The original value in the db was getting set to the current value of the item resulting in the original value being</p>

TRACKING NUMBER	APAR	PMR	SYNOPSIS
			<p>the same as the latest value.</p> <p><b>Solution:</b> The original value in the db is set to the original value of the item and not the current value.</p> <p><b>Customer Impact:</b> getOriginalEntry() returns the original DB item as expected.</p>
WPC00032625	JR27813	44469	<p><b>Abstract:</b> Error after running Idx_Ctg_Catalog.sql</p> <p><b>Problem:</b> If you run the db2_delete_versions_by_date.sh, the idx_ctg_catalog.sql was called, and it resulted in an error being thrown.</p> <p>Cause: A function was used in creating an index in DB2. This is not allowed in DB2 and therefore the error.</p> <p><b>Solution:</b> This index creation has been removed for DB2 database.</p> <p><b>Customer Impact:</b> No impact.</p>
WPC00032624	JR27819	24720	<p><b>Abstract:</b> Item Differences feature throws error page</p> <p><b>Problem:</b> When an occurrence of a group containing certain types of attributes was added to an item within a workflow context, and the user then clicked Item Differences, they saw a page informing them that a server error has occurred.</p> <p><b>Solution:</b> A code fix has been provided to correct the problem</p> <p><b>Customer Impact:</b> None</p>
WPC00032555		68703	<p><b>Abstract:</b> 'For the initial display of grouped attributes' Setting requires re-login for changes to take place.</p> <p><b>Problem:</b> A few settings required re-login, which users assumed will not work</p> <p><b>Solution:</b> A Code fix has been provided to solve the problem</p> <p><b>Customer Impact:</b> "For the initial display of grouped attributes" will take effect after the reload of Trigo application. No re-login by users required.</p>
WPC00032513	JR27625	84225	<p><b>Abstract:</b> Multi edit checkout refresh performance problem</p> <p><b>Problem:</b> In the multi edit screen, when using the check out function on multiple products, the screen did not refresh or took a while to refresh. In parallel, in the collaboration area, the display and refresh in the left hand navigation, the items were checked out before the screen was refreshed. Clicking the "REFRESH" button was a workaround, but in some other cases, the Refresh button did not have any effect even after 15 minutes, if you had selected 20 items(a full page) or more.</p> <p><b>Solution:</b> In case of multi edit screen and using the checkout function, the list of items being checked out are set to the correct state as being processed and screen gets refreshed automatically.</p> <p><b>Customer Impact:</b> None</p>

### 2.3 Fixes from WPC Version 5.3.2, Fix Pack 5

TRACKING NUMBER	APAR	PMR	Synopsis
WPC00032806			<b>Abstract:</b> \$stop/bin/go/workflow_status.sh file is missing

TRACKING NUMBER	APAR	PMR	Synopsis
			from the product <b>Cause:</b> The file was not bundled with the product <b>Solution:</b> Added the file to the product bundle
WPC00032617	JR27802	48842	<b>Abstract</b> The script function getUserLocale() is picking up the locale in an entry preview script. <b>Problem:</b> Only the locale for item or category data display setting was being checked, and if it was set to -none-, the script operation would return null <b>Solution:</b> If the user setting Locale for Item and Category Data Display is set to -NONE-, the script operation will now fall back on the user setting Locale for user interface display.
WPC00032610		54612	<b>Abstract:</b> JSP response header missing max-age <b>Problem:</b> Missing header of max-age resulted in failure to cache unchanging JSPs <b>Solution:</b> HTML fixed <b>Customer Impact:</b> No changes are required for implementation by the customer <b>Limitation:</b> Please see limitation in the Issues and Known Limitation section
WPC00032736	JR27885	07849	<b>Abstract:</b> Environment imports will fail with SAXPARSEEXCEPTION if spec names contain consecutive "blanks" or "&" characters. <b>Problem:</b> Consecutive spaces and the ampersand(&) character were not escaped properly while writing the data to xml <b>Solution:</b> A code fix has been provided to solve this issue. <b>Customer impact:</b> Customer can now successfully import the spec having consecutive blanks or "&" characters in their names.
WPC00032602			<b>Abstract:</b> checkForCompileErrors.sh not showing errors when script_execution_mode=compiled_if_available <b>problem:</b> If the shell script \$top/bin/checkforcompileerror.sh is run with the script execution mode set to compiled_if_available, not all errors will be reported. <b>Solution:</b> A code fix has been provided to correct the problem. However, due to the internal logic, full details of some errors will only be available if the script execution mode is set to compiled_only. Also, if the script execution mode is set to not_compiled, then failure will be reported for all scripts. <b>Customer impact:</b> All scripts failing compilation will now be reported. The shell script should not be run with script execution mode set to not_compiled.
WPC00032594	JR27744	75863	<b>Abstract:</b> Timestamps showing one hour behind in WPC GUI. <b>Problem:</b> WPC not distinguishing "pacific time us" and "pacific time Mexico" time zones <b>Solution:</b> Two time zone options have been created in WPC: GMT-8 : Pacific Time (US and Canada) GMT-8 : Tijuana, Baja California  They replace the one currently offered WPC's available time

TRACKING NUMBER	APAR	PMR	Synopsis
			<p>zone: GMT-8 : Pacific Time (US &amp; Canada), Tijuana <b>Customer impact:</b> All WPC users who use a Pacific time zone setting should go to their My Settings page and check that they have the new value appropriate for them.</p>
WPC00032581	JR27723	05879	<p><b>Abstract:</b> The shell scripts to start and stop the application not working correctly in a clustered environment <b>Problem:</b> The scripts \$stop/bin/go/start_local.sh, \$stop/bin/go/stop_local.sh and \$stop/bin/go/abort_local.sh were assuming that only a single application server was in use <b>Solution:</b> the scripts start_local.sh, start_local_rmlogs.sh, stop_local.sh and abort_local.sh now take an extra parameter, --appservers=#, defaults to 1. For multiple application servers, a number will be appended to the name defined as WAS_APPSERVERNAME or CCD_WL_SERVER in init_ccd_vars.sh, and the application servers will have service names appsvr#, where # is a number starting from 1. For example, if the start_local.sh script is invoked on a host called wpcserver, whose defined value of WAS_APPSERVERNAME is wpc_server, as: \$STOP/bin/go/start_local.sh --appservers=2 It will then start an application server named wpc_server1, with rmi name appsvr1_WPCSERVER and an application server named wpc_server2, with rmi name appsvr2_WPCSERVER. This does not affect the admin service, event processor, queue manager, scheduler or workflow engine, which will continue to be called admin_WPCSERVER, etc.  If appservers is set to 1 or not specified, then the system will continue to start a single application server called appsvr_WPCSERVER, using the name specified in init_ccd_vars.sh. <b>Customer impact:</b> Customers will be able to easily start and stop multiple application servers. <b>Limitation:</b> Please see CR WPC0032913 in the Issues and Limitations section</p>
WPC00032577	JR27713		<p><b>Abstract:</b> Deprecated operation item.getCtgItemRelatedItemInfo() in WPC 521 <b>Problem:</b> The script operation item.getCtgItemRelatedItemInfo (used in WPC5.2.1) is deprecated, there is no description which script operation can be used instead in WPC532. <b>Solution:</b> The replaced script operation is entry::getEntryRelationshipAttrib(string attribpath) in WPC532. <b>Impact to customers:</b> Script operation entry::getEntryRelationshipAttrib(string attribpath) can be used instead of getCtgItemRelatedItemInfo () .</p>
WPC00032810	JR27909	08065	<p><b>Abstract:</b> Environment imports of workflows in create_or_update mode fail with error aus-45-684 when using non default exit</p>



TRACKING NUMBER	APAR	PMR	Synopsis
			<p><b>Problem:</b> The error was due to a problem in creating the step.</p> <p><b>Solution:</b> A Code fix has been provided to correct the problem.</p> <p><b>Customer Impact:</b> No impact</p>
WPC00032573	JR27710	74805	<p><b>Abstract:</b> Automatically generated scripts not always declaring variables using VAR keyword.</p> <p><b>Problem:</b> Error running the import when script_check_variables is set to true in common.properties.</p> <p><b>Solution:</b> All the variables used in the generated script are declared with the VAR keyword</p> <p><b>Customer Impact:</b> Customer can run the import successfully even with script_check_variables=true set in common.properties.</p>
WPC00032557			<p><b>Abstract:</b> Static query GEN_SEC_CMP_COMPANY_GETBYID gets executed too often by the Mount Manager.</p> <p><b>Cause:</b> The query was being executed multiple times per file which is unnecessary.</p> <p><b>Solution:</b> To compute the value of the query once and then sync the files that share this value.</p> <p><b>Customer Impact:</b> No customer Impact.</p>
WPC00032554			<p><b>Abstract:</b> Multi edit UI - large text areas makes the copy down arrows move under the text box</p> <p><b>Cause:</b> Disappearance of copy down arrows in multi edit column header when user types 3 and more than 3 rows in the column header.</p> <p><b>Solution:</b> A code fix has been provided to solve this issue.</p> <p><b>Customer impact:</b> Customer can now view the copy down arrows in multi edit column header as intended.</p>
WPC00032550			<p><b>Abstract :</b> Slow performance for lookup popup</p> <p><b>Cause:</b> Certain globalization objects were loaded that were not used. Profiling revealed that these objects took a long time to initialize.</p> <p><b>Solution:</b> Code has been modified to lazily load certain objects that were not being used.</p> <p><b>Customer impact:</b> No impact</p>
WPC00032547	JR27662	05896	<p><b>Abstract:</b> Non-availability of "spell check attributes" button in workflow step single edit screen</p> <p><b>Problem:</b> The "spell check attributes" button was not rendered in the workflow step single edit screen.</p> <p><b>Solution:</b> A code fix has been provided to provide the "spell check attributes" button in the workflow step single edit screen.</p> <p><b>Customer impact:</b> Customer can now use the "spell check attributes" button in the workflow step single edit screen as well.</p>
WPC00032546	JR27665	10055	<p><b>Abstract:</b> Message "you do not have privilege to access this page" displayed at collaboration area frame, right after logging in to WPC.</p> <p><b>Problem:</b> The dependency of collaboration area screen privilege depending on other privileges.</p> <p><b>Solution:</b> A code fix has been provided to solve this issue.</p>

TRACKING NUMBER	APAR	PMR	Synopsis
			<b>Customer impact:</b> Customer can now view the collaboration area screen console as soon as he logs into WPC if he has the privilege to access this screen.
WPC00032512	JR27628	10062	<p><b>Abstract:</b> Textfield size for lookup table attributes does not change no matter how big max length is set in prim spec</p> <p><b>Problem :</b> When there is a textfield for the lookup table type attribute, no matter how large the value set for this lookup table type attribute in the primary spec, the textfield size will not change. Only 16 characters will be displayed.</p> <p><b>Solution :</b> The size of the lookup table text box was set to 16 previously. Now the size of the lookup table text box is set to the max length specified in the spec.</p> <p>The behavior is now similar to the other attribute types.for example, when maximum length of a string type and of a lookuptable type are both defined same value (both are 20), then the size of their textfield is displayed according to their values.</p> <p><b>Customer impact :</b> The size of the textfield for lookup table changes based on the maxlength set in the primary spec</p>
WPC00032509	JR27623	72358	<p><b>Abstract:</b> The name of the workflow step is cut out in collaboration area console.</p> <p><b>Problem:</b> When the step name in workflow increases in length, the name is cut off in the collaboration area console.</p> <p><b>Solution:</b> Provided a code fix to solve the issue.</p> <p><b>Customer impact:</b> Add next steps screen width will be set to maximum length of the wfl step name.</p>
WPC00032506	JR27604	72356	<p><b>Abstract:</b> My profile - changing user name should be restricted</p> <p><b>Problem:</b> Users were able to easily change their own user names, giving system administrators very little control.</p> <p><b>Solution:</b> There is a new entity in common.properties, allow_users_to_modify_own_username. This can be true or false, and defaults to true.</p> <p>If set to true, users will be able to modify their own user names, and all other fields on their own profile, as they could previously.</p> <p>If set to false, only administrators and users whose roles allow them to modify users will be able to modify user names, but all users will still be able to modify all other fields on their profiles.</p> <p><b>Customer impact:</b> By adding the new entry to the common.properties file and setting it to false, the system administrator will have greater control over user names.</p>
WPC00032505	JR27603	54611	<p><b>Abstract</b> http analysis shows several http requests returning "404 not found" from the application server.</p> <p><b>Problem:</b> A WPC code base error which occurs in every environment where WPC is used and occurs in WINDOWS and AIX</p> <p><b>Cause:</b> many of the non-existing files were being referenced in the code, and some were wrongly referenced.</p> <p><b>Solution:</b> Using the HTTP page analyzer, captured all the errors occurring and corrected the wrongly referenced pages.</p> <p><b>Limitation:</b> Please see the Issues and Limitations section</p>

TRACKING NUMBER	APAR	PMR	Synopsis
WPC00032502	JR27588	10059,	<p><b>Abstract:</b> Inconsistent behavior with the search_ignorecase setting in the common.properties</p> <p><b>Cause:</b> The query generation for the left nav search did not consider the search_ignorecase setting in common.properties.</p> <p><b>Solution:</b> In the query generation for left nav search, a check is made in common.properties for the value of search_ignorecase setting to generate the correct query.</p> <p><b>Customer impact:</b> Customers will now be able to perform case-sensitive search in catalog explorer, spec explorer and organization explorer in the left nav catalog explorer and hierarchy mapping popup.</p>
WPC00032421	JR27501	12134	<p><b>Abstract:</b> Db2 related "db2_v53x_delete_versions" scripts are not bundled with WPC 5.3.x</p> <p><b>Problem:</b> Shell scripts to delete WPC old versions for db2 are not available with the product.</p> <p><b>Solution:</b> Added shell scripts to estimate and delete WPC old versions for Db2.</p> <p><b>Customer impact:</b> Db2 delete version scripts are now available with the product. Customers can use the scripts in \$stop/src/maintenance/bin directory to estimate number of old versions in WPC and then delete accordingly.</p>
WPC00032392			<p><b>Abstract:</b> User can not modify collaboration if the user doesn't have privilege "view 'new collaboration area' screen".</p> <p><b>Problem:</b> When the user is denied access to view new collaboration area screen then he automatically loses privilege to view the details of the existing collaboration screen.</p> <p><b>Solution:</b> The two actions are made to refer to two different jsp's. This creates another entry in the edit screens page called "view 'collaboration area details' screen". When the user has access to this page he will be able to view the collaboration area details even if he doesn't have access to create a new one.</p> <p><b>Customer impact:</b> the addition of the new jsp has migration effects. Follow the steps below for migration:  Step 1: Run the following script:  \$stop/bin/migration/collareamigration_stepone.sh  Step 2: Run the following script:  \$stop/bin/migration/collareamigration_steptwo.sh</p> <p><b>Note:</b>  1. Please do not run the scripts twice.  2. Do not run Step 2 if you get the following message after running Step 1:  Warning: the tables related to access control group (acg) seem to have been migrated before.  Warning: the current migration request is ignored.  3. If you do not have permission to execute the shell scripts collareamigration_stepone.sh and collareamigration_steptwo.sh, please change the file permission of these two files using 'chmod 555 &lt;filename&gt;' command.</p>

TRACKING NUMBER	APAR	PMR	Synopsis
WPC00032380	JR27446	32307	<p><b>Abstract:</b> max_inactive_interval does not get reset when actions are taken inside custom tools that have nested frames.</p> <p><b>Problem:</b> If the user has created a custom tool and from that tool another iframe is created then the inactive timer expires regardless of the user activity in that custom tool.</p> <p><b>Solution:</b> A code fix has been provided to solve this issue.</p> <p><b>Customer impact:</b> Customer can now use the custom tool with nested frames as intended.</p>
WPC00032379	JR27444	23564	<p><b>Abstract:</b> Internet Explorer "back" button duplicates categories in GUI</p> <p><b>Problem:</b> If the user clicks the browser's "back" button after expanding a category in the left pane, the sub-categories and items will appear twice.</p> <p><b>Solution:</b> A code fix has been provided to correct the problem</p> <p><b>Customer impact:</b> none</p>
WPC00032356	JR27397	08955	<p><b>Abstract:</b> Script generated dynamic selection for collaboration area creates widget error in single edit.</p> <p><b>Problem:</b> Selections are not supported on collaboration areas. The current fix disables selections on collaboration areas.</p> <p><b>Solution:</b> Check if container is a collaboration area. If so, throw an exception stating selections not supported on CA's</p> <p><b>Customer impact:</b> Customer will not be able to use selections in CA's.</p> <p><b>Limitation:</b> Please see the Known Issues and Limitations section</p>
WPC00032187	JR27262	34315	<p><b>Abstract:</b> Improve performance migration script performance (migrate5301to532.sh)</p> <p><b>Cause:</b> The sequence of execution of the SQLs was causing slow execution of the migration script.</p> <p><b>Solution:</b> The sequence of execution of the SQLs has been altered so that the script execution is faster.</p> <p><b>Customer impact:</b> There is no impact for the customer as this fix has not changed any functionality.</p>
WPC00032173	JR27233	00622	<p><b>Abstract:</b> Export screen appears disrupted when a lot of files are exported or the files contain accented characters.</p> <p><b>Cause:</b> When the export has accented characters or a large number of files, the status information returned by the export job is longer than 4000 characters and therefore it is truncated when inserted into the database.</p> <p><b>Solution:</b> The solution is to redirect the result to a file staged in the docstore. In the database, the column which currently maintains the summary string will now store the path of this file. While displaying the result of an export, we will read from the files stored in the doc store.</p> <p><b>Impact to customers:</b> The customer will be able to see the job details clearly and the file names will be in a sorted order.</p>
WPC00032560	JR27689	10054	<p><b>Abstract:</b> Description and documentation of Behavior of Save as Draft functionality.</p> <p><b>Problem:</b> Certain attribute values get persisted and certain</p>

TRACKING NUMBER	APAR	PMR	Synopsis
			<p>do not in the case of save as draft functionality in workflows.</p> <p><b>Cause:</b> Non-availability of the description of the behavior of different data types in different scenarios in workflows.</p> <p><b>Solution:</b> Providing the detailed behavior of different data types in different scenarios as part of the documentation. The documentation is included in the User Guide.</p> <p><b>Customer Impact:</b> Customer can now on refer to the User Guide to get a clear picture of the save as draft functionality.</p>

## 2.4 Fixes from WPC Version 5.3.2, Fix Pack 4

Tracking number	APAR	PMR	Synopsis
WPC00032371	JR27409	83105	<p><b>Abstract:</b> THE WPC SUB-SPEC DOES NOT CONTAIN THE OPTIONS TO DEFINE AN ATTRIBUTE AS EDITABLE, HIDDEN, INDEXED, OR NON-PERSISTENT</p> <p><b>Problem:</b> The WPC sub-spec does not contain the methods that allow the user interface to display each of these attributes as editable, hidden, indexed, or non-persistent in the WPC user interface.</p> <p><b>Customer impact:</b> You can now define an attribute to be editable, hidden, indexed, or non-persistent.</p>
WPC00032378	JR27487	32064	<p><b>Abstract:</b> The WPC menu bar tools display order is not sorted alphabetically</p> <p><b>Problem:</b> The custom tools display order is not alphabetically sorted in the WPC menu bar.</p> <p><b>Customer impact:</b> None</p>
WPC00032481	JR27548	62030	<p><b>Abstract:</b> WPC IS INCONSISTENT WHILE ENFORCING WORKFLOW STEP VALIDATION</p> <p><b>Problem:</b> WPC uses different rules between the user interface and scripting functions, which creates an inconsistency when enforcing workflow step validations. For example, if you use an import script to save a workflow step with entries, the retrieved validation errors are based on the catalog spec definition, not the workflow step definition. The opposite is true if you use the user interface, because through the user interface, the workflow step level validations are enforced.</p> <p><b>Customer impact:</b> With this fix, Workflow step specific validation rules are enforced for items in collaboration areas, regardless of whether the save is triggered in the user interface, or via the saveCtgItem script operation. In particular, saveCtgItem now has the same behavior on an item in a workflow step, as would saving that item by clicking the SAVE button in the step. Also, the Variables colArea and stepPath (in the workflow), will be set in catalog scripts, regardless of whether a save is triggered in</p>

Tracking number	APAR	PMR	Synopsis
			the user interface or via the saveCtgItem script operation. (Note: Currently, this fix is only operative when the item is only in one workflow step when the save is invoked.)
WPC00032333	N/A	N/A	<b>Abstract:</b> You cannot re-deploy WPC after re-starting the WebLogic application server <b>Problem:</b> Web Services need to be explicitly re-deployed on startup for WebLogic platforms. For WebLogic platforms, after starting up the WPC processes, the start_local.sh script will attempt to re-deploy all Web Services that are marked as deployed in the database. <b>Customer impact:</b> If you are using script-implemented Web Services you no longer need to save each Web Service from the user interface to re-deploy it. This applies to both script-implemented and Java™-based Web Services.
WPC00032503	JR27594	72359	<b>Abstract:</b> AN ATTRIBUTE THAT HAS A MINIMUM LENGTH SET, THROWS AN UNNECESSARY ERROR <b>Problem:</b> You get the following validation error after creating an item in a catalog with an editable field and deleting several characters for that attribute: AUS-00-001 Error: The following validation for attribute 'Item Name' failed: Length. This problem occurs because the system makes this attribute mandatory, but the attribute is not mandatory. <b>Customer impact:</b> None
WPC00032116	JR25870	75142	<b>Abstract:</b> THE DOCSTORE POPUP WINDOW DOESN'T CLOSE AFTER A USER ACTION <b>Problem:</b> When you try to download a binary file, for example a zip file from the document store, a new window opens followed by a dialog box that asks you if you want to open, save, or cancel the file download. This window should close automatically when an action is taken on the dialog box, but it remains open in the background. <b>Customer impact:</b> None
WPC00032275	JR27347	69482	<b>Abstract:</b> Items that are defined as sequence and then set not to be sorted by the primary key are still sorted by the primary key <b>Problem:</b> Even if the parameter, <b>Sort all items listed by the primary key</b> is set to no in <b>My settings</b> , items are sorted by the primary key even though they are defined as type Sequence. <b>Customer impact:</b> None
WPC00032439	JR27513	63396	<b>Abstract:</b> MANDATORY CHECK ICON SHOWS INCONSISTENT BEHAVIOR <b>Problem:</b> The following problems were apparent when working with items in the multi-tab view after validation errors occur across more than one tab: 1. If the user changes tabs after correcting a validation error, the status icon changes from the flashing red <b>Validation Failed</b> icon to the yellow <b>Dirty</b> icon. This problem also

Tracking number	APAR	PMR	Synopsis
			<p>happens if the user clicks anything that causes a server read/write.</p> <p>2. If the user navigates to another tab by clicking the <b>Validation Failed</b> icon and selecting a validation error, then back to the previous tab by clicking the tab header, the tab content does not change.</p> <p>3. If the user clicks the <b>Validation Failed</b> icon after correcting a validation error, the icon changes to the <b>Dirty</b> icon and the pop-up reports no validation errors, even if previously-reported errors remain uncorrected.</p> <p><b>Customer impact:</b> Customers will now be able to successfully navigate between validation errors as intended.</p>
WPC00032489	JR27564	10058	<p><b>Abstract:</b> AN ATTRIBUTE PROBLEM OCCURS WHEN THERE IS A LONG DISPLAY NAME</p> <p><b>Problem:</b> An attribute for a category or item with a long display name is truncated in the data entry screen when a medium size or large font is in use. In addition, for required fields, the symbol that indicates that this is a required field is not displayed.</p> <p><b>Customer impact:</b> Required attributes will be clearly indicated, regardless of how long the display is or the size of the font.</p>
WPC00032500		015156	<p><b>Abstract:</b> An error occurs when you install WPC Version 5.3.2, Fix Pack 2 with WebLogic Version 9.2.2</p> <p><b>Problem:</b> After a successful installation, an initialization error occurs when you start WebLogic.</p> <p><b>Customer impact:</b> None</p>
WPC00032514	JR27626	84877	<p><b>Abstract:</b> The INVOKESOAPSERVERFORDOCLIT(SURL, SSOAP) script does not send the request to the SOAP server when the SOAP message contains a ' ' symbol with an extended ASCII</p> <p><b>Problem:</b> When you use an extended ASCII character in the SOAP message, xmlRequestMessage, you get the following error: error:java.io.UTFDataFormatException: Invalid byte 1 of 1-byte UTF-8 sequence.</p> <p><b>Customer impact:</b> None</p>
WPC00032536	JR27655	54691	<p><b>Abstract:</b> SLOW POPUP WINDOW RESPONSE WITH A LARGE LOOKUP TABLE</p> <p><b>Problem:</b> If you have a lookup table that has 10,000 or more entries, it can take up to one minute to load. This issue occurs on WPC Version 5.3.2, Fix Pack 1 and later.</p> <p><b>Customer impact:</b> None</p>
WPC00032558	JR27701	74301	<p><b>Abstract:</b> Adding a secondary spec during a workflow causes an exception</p> <p><b>Problem:</b> When you add a secondary spec during the execution of a workflow, items fail to move to the next step.</p> <p><b>Customer impact:</b> None</p>

Tracking number	APAR	PMR	Synopsis
WPC00032553	JR27680	63376	<p><b>Abstract:</b> Workflow engine times out</p> <p><b>Problem:</b> The workflow engine causes a deadlock in certain use cases.</p> <p><b>Customer impact:</b> None</p>
WPC00032396	JR27481	66569	<p><b>Abstract:</b> WHEN NAVIGATING THE CATEGORY LIST, ITEMS MAPPED TO A CATEGORY ARE INCORRECTLY SHOWN</p> <p><b>Problem:</b> In the WPC user interface when you use the List view with the Item categorize popup helper, you can navigate to items but you cannot re-categorize them.</p> <p><b>Customer impact:</b> None</p>

## 2.5 Fixes from WPC Version 5.3.2, Fix Pack 3

Tracking number	APAR	PMR	Synopsis
WPC00032411	JR27490	49438	<p><b>Abstract:</b> COMPANY WORK LOAD MANAGER</p> <p><b>Problem:</b> The fixit step takes too much time to load. This performance issue occurs when the item in the fixit step has a large number of attributes to render. The problem occurred because the method that creates a union of all attributes used in a workflow step was being called unnecessarily for each attribute that was being rendered. This issue created significantly slowed performance when the number of attributes in the item was 200 and therefore, the same union was being created 200 times.</p> <p><b>Solution:</b> WPC is now calling the method that creates the union of the attributes only once and is saving it to a member variable which is used in subsequent checks instead of creating the union repeatedly.</p> <p><b>Customer impact:</b> The improvement in performance is notable with items that are loaded into a fixit step and is especially obvious for those items with many attributes to display. In addition, the increase in performance can be seen when the max_specs_in_cache operation located in the common.properties file is set to 1000 and the max_attrgroups_in_cache operation is set to 500.</p>
WPC00032393	N/A	N/A	<p><b>Abstract:</b> The export zip can not be unzipped</p> <p><b>Problem:</b> If an environment export is run, a zip file is uploaded to documentation store know as the "docstore". While trying to download the generated zip file, you get the error; "The archive is either in unknown format or damaged."</p> <p><b>Solution:</b> This problem was introduced by a previous fix. The zip file format was not recognized while downloading or opening the zip file and it caused this error. This problem was corrected by reverting to the original behavior of the file download.</p> <p><b>Customer impact:</b> No impact</p>



Tracking number	APAR	PMR	Synopsis
WPC00032381	JR27459	48843	<p><b>Abstract:</b> NESTED WORKFLOWS RETURN WITH FAILURE TO MAIN WORKFLOW</p> <p><b>Problem:</b> WPC nested workflows were returning failures and sending them to the outer workflow regardless of the actual return code.</p> <p><b>Solution:</b> A code fix is provided in this fix pack.</p> <p><b>Customer impact:</b> You are can nest workflows as intended.</p>
WPC00032338	JR27385	N/A	<p><b>Abstract:</b> THE DOC:GETDOCLENGTH() METHOD RETURNS AN INCORRECT SIZE IN KB FOR SMALL DOCS</p> <p><b>Problem:</b> The size of a document in kilobytes was being truncated instead of rounded.</p> <p><b>Solution:</b> A code fix is provided in this fix pack.</p> <p><b>Customer impact:</b> No impact</p>
WPC00032296	JR27362	31622	<p><b>Abstract:</b> PROBLEM WITH THE GETCOLAREABYNAME FUNCTION WHERE THE CALL RETRIEVES CACHED INFORMATION</p> <p><b>Problem:</b> When the function, getColAreaByName (String colAreaName), is invoked in the WPC scripting sandbox, it returns cached information about all the collaboration areas. The caching of this information causes inconsistency problems when the function disableContainerProcessingOptions iwas used in the WPC sandbox.</p> <p><b>Solution:</b> A code fix is provided in this fix pack.</p> <p><b>Customer impact:</b> No impact</p>
WPC00032295	JR27365	01964	<p><b>Abstract:</b> ORPHAN ITD RECORDS REMAINED IN ITD TABLE AFTER THE ITEM LEFT THE COLLABORATION AREA</p> <p><b>Problem:</b> The ITD record is not deleted when an item is checked back to the catalog from the collaboration area. The ITD record is not deleted even when the item is deleted from the catalog. This problem occurs with both Oracle and DB2.</p> <p><b>Solution:</b> When an item is checked in from the collaboration area to the catalog, the corresponding ITD record is deleted.</p> <p><b>Customer impact:</b> No impact</p>
WPC00032276	JR27349	00671	<p><b>Abstract:</b> THE TODOUBLE()FUNCTION DOES NOT PROVIDE THE CORRECT PRECISION FOR A STRING VALUE</p> <p><b>Problem:</b> While trying to save the value, 0.001, to a number attribute with the precision defined to 3, WPC generates an error instead of saving the number.</p> <p><b>Solution:</b> The solution that WPC implemented in this fix pack was to trim the last zero from the string representation of the number before saving it.</p> <p><b>Customer impact:</b> The numbers with precision exactly as defined can be saved now.</p>

Tracking number	APAR	PMR	Synopsis
WPC00032262	JR27329	32371	<p><b>Abstract:</b> ERRORS IN APPLICATION SERVER EXCEPTION LOG REGARDING PARSING STRING FOR LOOKUP TABLE RENDERER</p> <p><b>Problem:</b> If a lookup table has string values that can not be identified as either a number or a date then WPC logs exceptions in the exception log regarding not being able to convert the strings to either a date or a number.</p> <p><b>Solution:</b> WPC implemented a fix by removing the logging of exceptions if the values default to string.</p> <p><b>Customer impact:</b> No impact</p>
WPC00032249	N/A	N/A	<p><b>Abstract:</b> A HTTP ERROR OR UNEXPECTED EXCEPTION OCCURS WHEN THE FILE NAME IN THE DOCUMENTATION STORE OR THE STEP NAME OF THE WORKFLOW CONTAINS MORE THAN ONE BLANK IN SUCCESSION</p> <p><b>Problem:</b> When using the left pane to navigate through the Document Store or a Collaboration Area, if an entry is encountered containing 2 or more consecutive spaces, a pop-up dialog box reading, Error: Http failed, appears. This error is caused by an earlier internal code change which caused the second and subsequent space to be escaped in the XML HTTP response.</p> <p><b>Solution:</b> A code fix is provided in this fix pack.</p> <p><b>Customer impact:</b> Customers will be able to use the left pane as intended.</p>
WPC00032205	JR27291	82368	<p><b>Abstract:</b> WHEN OS TIME ZONE IS SET TO KST, THE DATE ATTRIBUTE VALUE RULE RES=TODAY() FAILS</p> <p><b>Problem:</b> The date object created using the today script operation has the short time zone in the date string which causes the parsing of this date string to fail because KST is not recognized as a time zone.</p> <p><b>Solution:</b> Make the GUI date and script operation consistent and remove the time zone from the date string created using today() script-op.</p> <p><b>Customer impact:</b> The date saved using the today() script operation would not have the time zone saved. The cases where the time zone is retrieved from the saved date in the database instead of the system time zone, will not work anymore (hopefully there are no such cases)</p>
WPC00032403	JR27494	54611	<p><b>Abstract:</b> The WPC user interface issues several 404 errors and does not exist HTTP requests.</p> <p><b>Problem:</b> There is Java script included in JSPs headers which does not exist in the code.</p> <p><b>Solution:</b> A code fix is provided in this fix pack.</p> <p><b>Customer impact:</b> No impact</p>

## 2.6 Fixes from WPC Version 5.3.2, Fix Pack 2

Tracking number	APAR	PMR	Synopsis
WPC00031883	JR26469	45476	<p><b>Abstract:</b> RECORDS/ROWS IN THE TEVT_QUE_QUEUE TABLE ARE NOT HANDLED EFFICIENTLY CAUSING A SLOW PERFORMANCE IN WPC.</p> <p><b>Problem:</b> The records and rows in the tevt_que_queue table are not handled efficiently causing slowed performance. When running a script that performs a large number of item add, item modify, and items deletes, these events or operations are logged in the table called tevt_que_queue. A problem occurred when the rows in this table did not get deleted quickly enough causing several rows or records to become large and thereby causing each select or delete operation to take longer than it normally would.</p> <p><b>Customer impact:</b> Use the indexed column que_id to get the first row instead of using ROWNUM pseudo column.</p>
WPC00032136	JR27182	14403	<p><b>Abstract:</b> PERFORMANCE ISSUE:CALENDAR.JSP LOADED TOO OFTEN</p> <p><b>Problem:</b> This problem is actually a performance issue. When you create a catalog and create an item for that catalog and click the item to access the main data entry screen on the Single item page, you see a message, "Calendar.jsp" is requested. This request results in a 37KB page download. The content that is downloaded looks fairly static (beyond localized string) and is exactly the same during a session. This request is unnecessary and should be removed.</p> <p><b>Customer impact</b> The performance improves.</p>
WPC00032161	JR27213	00608	<p><b>Abstract:</b> THE ENTRY BUILD IS DESIGNED FOR SETTING NON-PERSISTED ATTRIBUTES, AND NOT TO SET PERSISTED ATTRIBUTES.</p> <p><b>Problem:</b> The Entry Build script is loaded each time you set a persistent attribute. Thus, if persisted attributes are changed, the entries will seem to have modifications and need saving, even though the entry was not specifically edited. For categories, this causes concurrent modification errors to occur, and categories will not be savable.</p> <p><b>Solution:</b> WPC implemented a fix for this issue by <i>not</i> setting persisted attributes in the entry build script unless the entry is new. This can be checked with new script operation isEntryNew(). Otherwise, entries will get inadvertently modified anytime they are loaded.</p> <p><b>Customer impact:</b> You must not use the entry build trigger to change persisted attributes in non-new entries.</p>
WPC00032162	JR27214	N/A	<p><b>Abstract:</b> THE METHOD GETORIGINALENTRY() THROWS AN ERROR WHEN IT WILL BE USED IN THE ENTRY BUILD SCRIPT OF A HIERARCHY.</p> <p><b>Problem:</b> The getOriginalEntry script can not be used in the entry build trigger to determine if an entry is new, and only new entries can get attributes set in the entry build script.</p> <p><b>Solution:</b> Create a new script operation isEntryNew() to determine if an entry is new.</p>

Tracking number	APAR	PMR	Synopsis
			<p><b>Customer impact:</b> You can now use a script that modifies attributes in the entry build trigger.</p>
WPC00032114	JR27121	39921	<p><b>Abstract:</b> RUNNING A WQL BASED ON TWO CONDITIONAL CLAUSES AND AN "ORDER BY" RESULTS IN INCORRECT RESULTS.</p> <p><b>Problem:</b> The WQL query with two conditional clauses and an order by was generating incorrect result set. When you run a WQL query based on two conditional clauses and an order by, an incorrect SQL is being generated resulting in an incorrect output. This problem occurred because the generated SQL was not correct for the given WQL and resulted in the inclusion of duplicate rows for the same item in the result set.</p> <p><b>Solution:</b> The SQL generation algorithm was modified to eliminate duplicate rows that were being included in a result set. With this fix, only one row is returned per distinct item in the result set.</p> <p><b>Customer impact:</b> WQL can now support multiple OR operators. The performance, however might degrade as you increase the number of OR operators. OR operator can be used as follows:</p> <p>&lt;AF1&gt; OR &lt;AF2&gt; OR ... OR &lt;AFn&gt;, n&gt;= 1, where each AFi is an atomic formula</p>
WPC00032134	JR27175	89430	<p><b>Abstract:</b> RICH SEARCH FREEZES AND ITEM EDIT DISPLAY IS SLOW, WHEN A CATALOG HAS STATIC SELECTION RETURNING LARGE NUMBER OF ITEMS</p> <p><b>Problem:</b> When a static selection or selections on a catalog return more than 10000 items, then the following problems occur:</p> <ul style="list-style-type: none"> <li>- Opening an item in that catalog from left navigation pane, it takes about one minute to display.</li> <li>- Opening rich search page (where the static selections are created) takes more than 10-15 minutes to display.</li> </ul> <p>Therefore, this performance issue is directly proportional to the number of items returned by static selections on that catalog.</p>
WPC00032068	JR26996	80781	<p><b>Abstract:</b> FOR SOME JAPANESE MULTI-BYTE CHARACTERS THE ISSTRINGSSINGLEBYTE()RETURNS THE WRONG RESULT</p> <p><b>Problem:</b> The SHIFT_JIS encoding API of the Java giver fails for Kanji characters.</p>
WPC00032077	JR26961	88959	<p><b>Abstract:</b> SCRIPT COMPILATION IS GIVING ERROR</p> <p><b>Problem:</b> When performing the script compilation using the checkForCompileError.sh script, you receive an error similar to the following:</p> <pre>Wed Jun 27 05:33:23 PDT 2007 - Verifying Script 'scripts/triggers/firstScript' /tmp/WPCfirstScript11829476037140.java:73: can not resolve symbolsymbol : class EntryNode location: class WPCfirstScript11829476037140 GenThrowValidationErrorResponse.execute(hmContext ,</pre>

Tracking number	APAR	PMR	Synopsis
			<p>(EntryNode)en, (String) "VALIDATION_RULE", (String) result);</p> <p><b>Solution:</b> When the script, throwValidationError(), is used in compiled only mode, the compilation error is not imported to the generated Java file.</p>
WPC00032079	JR27021	41428	<p><b>Abstract:</b> SELECTION CAN NOT BE MAPPED TO AN ACCESS CONTROL GROUP (ACG).</p> <p><b>Problem:</b> It is not possible to map a selection (basic or dynamic selection) to an access control group (ACG). A dynamic selection object is mapped to a user created ACG but that is not reflected in the selection console, and there is no exception thrown.</p>
WPC00032109	JR27095	86613	<p><b>Abstract:</b> BEHAVIOR OF CARRIAGE RETURN AND LINE FEED CHARACTER IN WPC5.3.2 IS DIFFERENT FROM TPC4.2 WHEN EXECUTING THE SAME SCRIPT.</p> <p><b>Problem:</b> You export a catalog text file by using the Window based control keys CR+LF (\r\n), and receive an error.</p>
WPC00032111	JR27106	01963	<p><b>Abstract:</b> ITEM WILL BE CORRUPTED WHEN YOU TRY TO CREATE A NEW ITEM THROUGH WPC API, WITH SAME PRIMARY KEY AS AN EXISTING ITEM</p> <p><b>Problem:</b> This problem occurs when a script attempts to create a new item by using "new CtgItem()" API with an existing primary key.</p>
WPC00032112	JR27109	84841	<p><b>Abstract:</b> CALENDAR WIDGET INCORRECTLY SHADES SUNDAYS AND MONDAYS AS WEEKEND DAYS FOR A SET OF LOCALES</p> <p><b>Problem:</b> When the locale for the user interface display is configured as Spanish, the Sunday ("dom") and Monday ("lun") columns are shaded instead of the ones for Saturday and Sunday.</p>
WPC00032144	JR27185	81357	<p><b>Abstract:</b> UNIQUENESS ERROR WHEN ADDING NEW ITEM OR CATEGORY AFTER UPDATING TO WPC 5.3.2 IF002 OR LATER AND USING SEQUENCES AS PRIMARY KEY</p> <p><b>Problem:</b> If you migrate all data from a previous WPC version to 5.3.2 IF002, then all sequence objects defined in table sequence for attributes of type sequence will not conform to the new seq_name syntax.</p> <p>If the Product catalog contained items already from previous 5.3.2 IF002 installation, this will cause a unique constraint violation, as new IDs with lower, already existing values will be created.</p>
WPC00032145	JR27188	32995	<p><b>Abstract:</b> OVERWRITING DYNAMIC SELECTION CORRUPTS THE IMPORT JOB</p> <p><b>Problem:</b> You can save dynamic selections with the same name as a pre-existing selection and overwrite it (a way to edit dynamic selections using the rich search screen). Yet, if you use the same name as a pre-existing selection, it will prompt you with a</p>

Tracking number	APAR	PMR	Synopsis
			<p>warning similar to the following, A selection called <b>xxx</b> already exists. Do you want to overwrite it?</p> <p>If you overwrite the selection, you will corrupt export jobs. When you overwrite the selection, the old dynamic selection gets deleted with its associated export jobs, and a new selection is created.</p> <p><b>Solution:</b> In the rich search screen, when a dynamic selection is overwritten by saving it with the same name as an existing one, only the query of the selection is updated and not the id.</p> <p><b>Customer impact:</b> You can update dynamic selections without having any impact on exports.</p>
WPC00032165	JR27221	47850	<p><b>Abstract:</b> WQL QUERY IS YIELDING THE WRONG RESULT SET WHEN COMBINING AND, OR OPERATIONS</p> <p><b>Problem:</b> The SQL generated for the WQL with such combinations of 'And' and 'Or' were erroneous. For example:</p> <p style="padding-left: 40px;"><b>WQL:</b> Select item from catalog('catalog name') where A and (B or C)</p> <p style="padding-left: 40px;">would result as</p> <p style="padding-left: 40px;"><b>SQL:</b> Select ita1.ita_item_id from ita ita1 where (A or B) or C</p> <p>The method which was joining the predicates A, B and C was using wrong operators to join them. Also the way the predicates were combined was not correct. For example : Suppose the where clause already has some clauses X and Y, so that the SQL query looks like</p> <p style="padding-left: 40px;">Select * from table where X and Y</p> <p>When the compound predicate A and (B or C) is added to the above SQL, each atomic predicate is added to the existing where clause without combining the results of other atomic predicates in the compound predicate. So after generating SQL for A, it is added to where clause like</p> <p style="padding-left: 40px;">Select * from table where X and Y and A</p> <p>The end result is the wrong SQL query: Select * from table where X and Y and (A or B) or C.</p> <p><b>Solution:</b> Each generated SQL atomic predicate that is inside a compound predicate is now combined with each other. These include the original operator that joined them in WQL to form the compound SQL clause before joining it to the outer clauses. In the example given above, the original WQL contains the compound predicate A and (B or C). (B or C) is first converted to SQL then only combined with A. Once the equivalent of A and (B or C) is produced in SQL, it is joined with the main where clause giving the correct SQL.</p>

Tracking number	APAR	PMR	Synopsis
			<p style="text-align: center;">select * from table where X and Y and A and (B or C)</p> <p><b>Customer impact:</b> WQL queries can now have combinations of multiple “AND” and “OR” in any order to give correct output. For example</p> <p style="text-align: center;">(A and (B or C)) will now yield the same result as ((B or C) and A)</p> <p>Some other examples that are supported are:  (A or B or C or D )  ((A or B) and (C or D))  ((A and B) or (C and D))  ((A or B or C) and D)  .....</p>
WPC00032170	JR27231	06618	<p><b>Abstract:</b> REQUIRED ATTRIBUTES IN WORKFLOW STEP DIDN'T DISPLAY ERROR WHEN LEFT BLANK</p> <p><b>Problem:</b> If an attribute is defined with Minimum Occurrence 1 and in two attribute collections, one of which is defined as Required and the other as Editable in a workflow, then setting the attribute to blank and saving will not cause a validation error to appear. The entry will be allowed to reach Success, but will then be moved to Fixit because it is in fact invalid.</p> <p><b>Solution:</b> A code fix has been provided to correct the problem so that the validation error will now be displayed and the entry is not allowed to leave the step.</p> <p><b>Customer impact:</b> No impact</p>
WPC00032175	JR27239	41486	<p><b>Abstract:</b> PROPERTY DISPLAY ISSUE. ITEMS NOT SHOWN</p> <p><b>Problem:</b> The description of the [category_item _count_dsiabled] parameter in common.properties is not clear.</p> <p><b>Solution:</b> Added additional description of this property in common.properties to make it clear that after enabling this property the user will not be able to view items in the left navigation. However search and rich search will still work.</p>
WPC00032206	JR27272	86058	<p><b>Abstract:</b> AN HTTP ERROR OCCURS WHEN YOU HAVE AN ITEM WITH A DISPLAY NAME THAT CONTAINS MORE THAN ONE BLANK IN SUCCESSION.</p> <p><b>Problem:</b> An error occurs when you display a collaboration area in the left navigation pane and the display name of an item that is checked out to the collaboration area contains more than two blanks in succession. You will receive a popup window with a HTTP error.</p>
WPC00032238	JR27306	02393	<p><b>Abstract:</b> ITEM.SAVECTGITEM() DOES NOT SAVE NUMBER TYPE ATTRIBUTE WHEN THE PRECISION OF THE NUMBER TYPE IS SET TO 0</p> <p><b>Problem:</b> The case of 0 precision was not considered initially.</p> <p><b>Solution:</b> A check was added for a number when the precision is</p>

Tracking number	APAR	PMR	Synopsis
			set to zero resolves this issue. <b>Customer impact:</b> User is able to save numbers with zero precision.
WPC00032007	JR26870	20078	<b>Abstract:</b> GENOBJECTTYPEINFOTODB DOESN'T REPORT DATABASE ERRORS <b>Problem:</b> When the create_schema.sh script was running certain database errors were not being reported when adding the object type information into the database. <b>Solution:</b> A code fix for this problem has been provided. <b>Customer impact:</b> When running this script, errors will now be reported to you, rather than being ignored.

## 2.7 Fixes from WPC Version 5.3.2, Fix Pack 1

Tracking number	APAR	PMR	Synopsis
WPC00032048	JR26951		<b>Abstract:</b> ITEM::SAVECTGITEM() DOESN'T VALIDATE NUMBER PRECISION. <b>Problem:</b> When using a precision restriction on a spec attribute, it is possible to circumvent this restriction using scripting.  For example, if a number is restricted to 3 decimal numbers, do not exceed the number of digits in the UI.  However, the following is possible when scripting:  <pre>var item = ctg.getCtgItemByPrimarykey("test key"); item.setCtgItemAttrib("test spec/number", 1.23456); item.saveCtgItem();</pre> This script will set the number attribute with 5 digits. When working with an item in the UI, this can have the effect as described in APAR JR26950. <b>Customer impact:</b> If a script tries to set a number value as too precise, this will cause the script to fail.
WPC00032047	JR26950	68790	<b>Abstract:</b> ITEM STATE CHANGES TO "MODIFIED" EVEN THOUGH NO CHANGES HAVE BEEN APPLIED. <b>Problem:</b> In the Single Edit Screen, when switching to a different view, a different tab, or when trying to checkout an Item to a Collaboration Area, the item's state icon in the upper left corner of the single edit screen might change to the yellow "modified" icon.  This will have the effect that the user will be presented with a warning message "You have unsaved Items / Hierarchy Nodes or work in progress" when navigating away from the item or when performing the checkout.



Tracking number	APAR	PMR	Synopsis
			<p><b>Cause:</b></p> <ul style="list-style-type: none"> <li>- A String Enumeration attribute has a value which isn't part of the String Enumeration. This can occur, if the attribute has been changed from String to String Enumeration, or if the contents of the String Enumeration have been changed.</li> <li>- A String attribute contains line break characters inserted via scripting (for example, <code>item.setCtgItemAttrib("spec/test_attr", "test\ntest1");</code> )</li> <li>- If a stored number attribute has a different precision than the spec would allow.</li> </ul>
WPC00032035	JR26938	66557	<p><b>Abstract:</b> HTTP FAILED" ERROR IN CATEGORY PICKER WHEN DISPLAYING CATEGORY WHERE CATEGORY DISPLAY NAME CONTAINS 2 CONSECUTIVE SPACES</p> <p><b>Problem:</b> While navigating through the category picker (which is opened when Adding or Replacing Hierarchy Mappings) an error occurs, "Http failed". This error is encountered, when the next to be displayed category has a display name which contains 2 consecutive blanks.</p> <p><b>Cause:</b> Runs of spaces were being incorrectly escaped in the XML HTTP response.</p> <p><b>Solution:</b> The code has been updated to correct the problem.</p> <p><b>Customer impact:</b> Customer will be able to use the category picker as intended.</p>
WPC00032031	JR26914	32962	<p><b>Abstract:</b> WHEN A USER IS ASSIGNED TO TWO ROLES, IT SEEMS TO TAKE JUST ONE ROLE'S PRIVILEGES.</p> <p><b>Problem:</b> When a user is assigned to multiple roles, the catalog access privileges of the roles are not added up. So the user does not have the privileges of all the roles. This problem occurs when using Oracle or DB2. It occurs on a Windows or AIX platform.</p> <p><b>Solution:</b> The catalog access privileges are added up for multiple roles. The highest privilege (write) from the multiple roles is given to the user.</p> <p><b>Customer impact:</b> When a user with multiple roles logs into WPC, they have the highest (write) privilege.</p>
WPC00032009	JR26867	31520	<p><b>Abstract:</b> ISNODEINDEXED() THROWS ERROR ON IMMUTABLE SPECS</p> <p><b>Problem:</b> When Script Operation IsNodeIndexed() is called on nodes of immutable spec, ClassCastException is thrown.</p> <p><b>Solution:</b> Code fix provided to let the scriptOp IsNodeIndexed() to be called also on immutable nodes as it does not change any value.</p>
WPC00032008	JR26866	31361	<p><b>Abstract:</b> CONCURRENT MODIFICATION EXCEPTION</p> <p><b>Problem:</b> After the resultSet.next() is called the expected behavior is to have a set of data being retrieved. The problem arises when one of the selected items is deleted. The resultSet.next() throw an exception instead of returning null. This causes the whole process to fail.</p>
WPC00031961	N/A	N/A	<p><b>Abstract:</b> Re-enable 5.2.1 behavior to display workflow item</p>

Tracking number	APAR	PMR	Synopsis
			<p>differences in GUI and retrieval of this information via getColAreaHistoryEventAttribute("ENTRY_DIFFERENCES")</p> <p><b>Problem:</b> a) Customer reported problem: "Item Differences/ History Screen" in 5.3.x no longer shows the exit values for each step (Item step history section) and that this info is no longer available in db tables as compared to 5.2.1. Due to some architectural changes this functionality was not implemented in 5.3.x. The workflow history events were being logged but without the xml that described the changes made to the item in that event. This problem occurred on all platforms.</p> <p><b>Solution:</b> Since 5.3.2 also has location attributes and the scenario of additions and deletions of attributes was not being handled properly in 5.2.1, the solution for this problem is going to be delivered in two steps. In first step (in 5.3.2 FP001) only the 5.2.1 functionality will be restored to satisfy the customer needs. Later (beyond 5.3.2 FP001) the additional information will also be saved as a part of the XML document in the workflow history table. The solution in the second step will be delivered in a later fix pack. The format of the old XML document in 5.2.1 is as below</p> <pre data-bbox="683 934 1432 1207">&lt;EntryDifferencesXML&gt;   &lt;Node&gt;     &lt;Path&gt; abc/xyz &lt;/Path&gt;     &lt;OldValue&gt; some old value before saving&lt;/OldValue&gt;      &lt;NewValue&gt; the new value after saving&lt;/NewValue&gt;    &lt;/Node&gt; &lt;/EntryDifferencesXML&gt;</pre> <p>The new format of the XML document after the second step fix will be as below</p> <pre data-bbox="683 1291 1432 1906">&lt;EntryDifferencesXML&gt;   &lt;Node&gt;     &lt;Path&gt; abc/xyz &lt;/Path&gt;     &lt;OldValue&gt; some old value before saving&lt;/OldValue&gt;      &lt;NewValue&gt; the new value after saving&lt;/NewValue&gt;    &lt;/Node&gt;   &lt;AddedNode&gt;     &lt;Path&gt; abc/xyz &lt;/Path&gt;     &lt;OldValue&gt; some old value before saving&lt;/OldValue&gt;      &lt;NewValue&gt; the new value after saving&lt;/NewValue&gt;    &lt;/AddedNode&gt;   &lt;DeletedNode&gt;     &lt;Path&gt; abc/xyz &lt;/Path&gt;     &lt;OldValue&gt; some old value before saving&lt;/OldValue&gt;      &lt;NewValue&gt; the new value after saving&lt;/NewValue&gt;</pre>

Tracking number	APAR	PMR	Synopsis
			<pre> &lt;/DeletedNode&gt; &lt;Location&gt; &lt;CategoryTree&gt;CTName&lt;/CategoryTree&gt; &lt;CategoryPk&gt;CatPrimaryKey&lt;/CategoryPk&gt; &lt;LocationNode&gt;   &lt;Path&gt; abc/xyz &lt;/Path&gt;   &lt;OldValue&gt; some old value before saving&lt;/OldValue&gt;    &lt;NewValue&gt; the new value after saving&lt;/NewValue&gt;  &lt;/LocationNode&gt; &lt;AddedLocationNode&gt;   &lt;Path&gt; abc/xyz &lt;/Path&gt;   &lt;OldValue&gt; some old value before saving&lt;/OldValue&gt;    &lt;NewValue&gt; the new value after saving&lt;/NewValue&gt;  &lt;/AddedLocationNode&gt; &lt;DeletedLocationNode&gt;   &lt;Path&gt; abc/xyz &lt;/Path&gt;   &lt;OldValue&gt; some old value before saving&lt;/OldValue&gt;    &lt;NewValue&gt; the new value after saving&lt;/NewValue&gt;  &lt;/DeletedLocationNode&gt; &lt;/Location&gt; &lt;/EntryDifferencesXML&gt; </pre> <p><b>Impact to customers</b> Currently, there is no impact as the functionality from 5.2.1 is being restored. After delivering the second step (in a future fix pack) the customer may have to rewrite any WPC scripts that used to parse this XML information to take advantage of the new structure of the XML.</p>
WPC00031995	JR26845	68183	<p><b>Abstract:</b> RUNNING "NEW CTGITEM()" ON A LOOKUPTABLE WITH THE SAME ATTRIBUTEVALUES TWICE CAUSES ERROR "COULD NOT RELEASELOCKS FOR THREAD"</p> <p><b>Problem:</b> When inserting data into a look up table by using the function new CtgItem(), it fails with the error "Could not release Locks For Thread". This error occurs for scripts run from within the sand script box or as a hierarchy import script. If this function is used in the context of a catalog import script, it does not cause a problem.</p>
WPC00032039	JR26502	01506	<p><b>Abstract:</b> Can not create Group attribute in a spec</p> <p><b>Problem:</b> When a child node is added to a group node, an error occurs as "Invalid attempt to add child. Only groupings or localized can add children"</p>
WPC00031886	JR26502	01506	<p><b>Abstract:</b> ATTRIBUTE ORDER IN TAB VIEW AND NON-TABBED VIEW ARE DIFFERENT IN WPC 5.3.2</p>

Tracking number	APAR	PMR	Synopsis
			<p><b>Problem:</b> Working as designed.</p> <p><b>Customer impact:</b> This behavior in WPC 5.3.2 is working as designed even though it is different from earlier versions. Attribute collections are ordered group of attributes and are defined in WPC. The way they are ordered is as follows:</p> <ol style="list-style-type: none"> <li>1. <b>In tab view:</b> The order of attributes reflects the order of attributes in the underlying catalog specifications.</li> <li>2. <b>In non-tab view:</b> The order of attributes reflects the order of underlying "attribute collections".</li> </ol> <p>Please note: In WPC 5.3.1 and earlier versions, the tab-view as well as non-tab view ordering of attributes is same, which reflects the spec ordering.</p>
WPC00031839	JR26340	01290,	<p><b>Abstract:</b> IT IS NOT POSSIBLE TO UPLOAD LARGE FILES TO WPC – USING BROWSER UPLOAD OR IMPORT ENVIRONMENT.</p> <p><b>Problem:</b> Customers report during migration that they could not upload large files into WPC using the browser upload feature; neither through a normal import or through the import environment feature. The problem occurred because they were trying to upload an exported environment that was very large due to the size of the document store (DocStore). When they attempted to upload the file, they were confronted with a java.lang.OutOfMemoryError.</p> <p><b>Solution:</b> WPC implemented a change to reduce the amount of "copies" of the data held in memory, to free up more memory thus allowing larger files to be uploaded.</p> <p><b>Customer impact:</b> The customer can work around this issue by importing things in a number of smaller chunks, rather than all at once. This can be done by selectively choosing what to export in the first place. If the customer tries to upload a file that is too large, this issue *will* still occur.</p>
WPC00031917	JR26587	68671	<p><b>Abstract:</b> SCHEMA MIGRATION TO 5.3.2 MIGHT FAIL WITH "ORA-01555: SNAPSHOT TOO OLD" DUE TO LONG TRANSACTION</p> <p><b>Problem:</b> When migrating prior releases of WPC installations to 5.3.2, schema changes and database updates have to be applied by running migrate531to532.sh script. When the existing installation contains large volumes of data, the migration of some data might fail due to error:</p> <p style="text-align: center;">"ORA-01555: snapshot too old: rollback segment number 8 with name "_SYSSMU8\$" too small"</p>
WPC00031988	JR26776	00538	<p><b>Abstract:</b> EXCEPTION WHEN USING MULTI-OCCURRENCE NODES IN REPORT INPUT SPECS</p> <p><b>Problem:</b> When a multi-occurrence node is defined in the report input spec and the user goes to the screen to input the node values, customers were presented with a blank screen. In addition, when a grouping node was defined in the report input spec and the user attempted to the same screen, they were informed that a server error</p>

Tracking number	APAR	PMR	Synopsis
			had occurred and logged out of WPC.
WPC00032001	JR26857	60259	<p><b>Abstract:</b> JAVA RUNTIME EXCEPTION OCCURS WHEN CHECKING IN AN ITEM INTO A WORKFLOW: "HAD TO TRUNCATE STRING TO INSERT INTO DB VARCHAR2 "</p> <p><b>Problem:</b> When checking an Item into a workflow the customer receives the following exception in the workflow engine default logs:</p> <p style="padding-left: 40px;">2007-06-14 10:38:12,219 [WorkflowEventProcessorEventId3387] WARNcom.ibm.ccd.common.util.StringUtils - Had to truncate string to insert into db varchar2 of length: 300</p> <p style="padding-left: 40px;">Length of string:385</p> <p><b>Solution:</b> STATUS column in tctg_itm_item table will be kept empty instead of copying COLLAB_INFO data to the STATUS column</p>
WPC00031672	JR26033	01087	<p><b>Abstract:</b> GLOBALIZATION BUG: WHEN SYSTEM SET TO KOREAN TIMEZONE, ERROR SHOWING LOOKUPTABLES WITH DATE FIELDS.</p> <p><b>Problem:</b> The "Browse Lookup Table" function in the Item Edit Screen is not working.</p> <p><b>Cause:</b> While adding the date to Lookup Tables the date object was being converted to a date string which had a three-character time zone in it. This three-character time zone is not unique. For example CST is used for both china and central time zone for US. So while retrieving the date object back from the string the system was unable to parse the string correctly.</p> <p><b>Solution:</b> Changed the format of the date string before adding it to the lookup tables so that it has no time zone. To obtain the date object from the string the default system time zone will be used.</p>
WPC00031697 WPC00031922	JR26065	74813	<p><b>Abstract:</b> WHEN MIGRATING FROM 5.2.1.X TO 5.3.X, THERE IS A GENERAL LOSS OF MANY ADVANCED SELECTIONS FUNCTIONALITIES VS DYNAMIC SELECTION</p> <p><b>Problem:</b> When creating an export, customers do not see the dynamic selections in the drop down selections and the getSelectionByName() does not return DynamicSelection object when the selection is a dynamic selection. In addition, dynamic selections could not be exported or imported.</p> <p><b>Cause:</b> The drop-down of selections had been set to only display static selections. Import and export of dynamic selections was not implemented.</p> <p><b>Solution:</b> The drop-down of selections now displays all selections. Import and export of dynamic selections has been implemented.</p> <p><b>Impact to customers:</b> Customers are now able to import and export dynamic selections. The XML syntax is the same as for 5.2.1, except that the &lt;RuleString&gt;&lt;/RuleString&gt; tags should define a WQL query representing the dynamic selection, rather</p>

Tracking number	APAR	PMR	Synopsis
			than a WPC scriptlet.
WPC00031933	JR26609	73200	<p><b>Abstract:</b> ALTGR&gt;&gt;&lt;SPECIFIC LETTER&gt; KEY COMBINATIONS TRIGGER WPC SHORTCUTS, ALTHOUGH THESE ARE NEEDED TO ENTER LANGUAGE SPECIFIC CHARACTER</p> <p><b>Cause:</b> This is an issue with Microsoft Windows. The shortcuts were intended to be triggered by Ctrl+Alt, but this key combination was deliberately made equivalent to Alt Gr for the benefit of those whose keyboards do not have an Alt Gr key.</p> <p><b>Solution:</b> The modifier keys used to trigger shortcuts are now configurable by the System Administrator, in common.properties. There are three new parameters in this file as follows:</p> <ul style="list-style-type: none"> <li>- use_ctrl_in_shortcuts can be true or false, default is true. If true, shortcuts will be triggered if and only if Ctrl is pressed; if false, shortcuts will be triggered if and only if Ctrl is not pressed.</li> <li>- use_alt_in_shortcuts can be true or false, default is true. If true, shortcuts will be triggered if and only if Alt is pressed; if false, shortcuts will be triggered if and only if Alt is not pressed.</li> <li>- use_shift_in_shortcuts can be true or false, default is false. If true, shortcuts will be triggered if and only if Shift is pressed; if false, shortcuts will be triggered if and only if Shift is not pressed.</li> </ul> <p><b>Impact to customers:</b> The default settings will cause shortcuts to be triggered by Ctrl+Alt, the same key combination that was previously hard coded, for backwards compatibility.</p> <p>However, Microsoft Windows Ctrl+Alt is equivalent to Alt-Gr. If a language uses Alt-Gr for some characters (such as Polish, where it is used for several accented characters), then the default settings should be changed in order to avoid the shortcuts being triggered by typing these characters. In these cases, the recommended settings are either:</p> <pre>use_ctrl_in_shortcuts=true use_alt_in_shortcuts=false use_shift_in_shortcuts=true</pre> <p>which will use Ctrl+Shift to trigger the shortcuts, or:</p> <pre>use_ctrl_in_shortcuts=false use_alt_in_shortcuts=true use_shift_in_shortcuts=true</pre> <p>which will use Alt+Shift to trigger the shortcuts.</p> <p>It is strongly recommended that the System Administrator not set</p>

Tracking number	APAR	PMR	Synopsis
			<p>all three of these settings to false, since this will result in the shortcuts being triggered by normal typing. Also, using Shift only will cause the shortcuts to be triggered by typing an uppercase letter.</p> <p>The System Administrator should also note that these settings are also not recommended:</p> <ol style="list-style-type: none"> <li>1. Using Ctrl only will cause a conflict between the WPC shortcut for Checkout and the Windows shortcut for Copy (Ctrl+C)</li> <li>2. Using Alt only will cause a conflict between the WPC shortcut for Add and the Internet Explorer shortcut for the Favorites menu (Alt+A).</li> </ol> <p>Finally, if a language which uses Alt-Gr+Shift for some characters is in use, then all three settings should not be set to true, since Ctrl+Alt+Shift is equivalent to Alt-Gr+Shift.</p>
WPC00031746	JR26165	67165	<p><b>Abstract:</b> The script operation getSourceEntrySetForRelatedEntries() is not working as expected.</p> <p><b>Problem:</b> The script operation getSourceEntrySetForRelatedEntries() is used to get all entries which are related to the given entry. The Script operation is returning a non-empty entryset even when no entries are related to the given entry. This happens because the previous query used in the script operation was not properly checking the entry-entry map table for any existing relationships.</p> <p><b>Solution:</b> The solution is to make sure that the script operation getSourceEntrySetForRelatedEntries() returns non-empty entry set only if the given entry is related to at least one other entry. This is made possible by modifying the query used in the script operation so that entry-entry map table is checked for the given item.</p>
WPC00031780	JR26231	01222	<p><b>Abstract:</b> BINARY ATTRIBUTE HAVE A PROBLEM DOWNLOADING AND UPLOADING FILES THAT HAVE MORE THAN ONE SPACE OR "+" IN THE FILE NAME</p> <p><b>Problem:</b> If a customer uploads a file to a binary attribute, the file can't always be uploaded and downloaded correctly. The file name itself makes the behavior different. The following conditions dictate the behavior:</p> <ol style="list-style-type: none"> <li>1. If there are spaces in the file name, the spaces get replaced by a "+".</li> <li>2. If the files have 2 or more consecutive spaces, the files can not be downloaded</li> <li>3. If the files have a "+" character in the original name, the files can not be uploaded and saved.</li> </ol>
WPC00031792	JR26248	74878	<p><b>Abstract:</b> ERROR POPUP WINDOW DOESN'T NAVIGATE TO THE CORRECT ERROR OCCUREN</p>

Tracking number	APAR	PMR	Synopsis
			<b>Problem:</b> The error popup window doesn't navigate to the occurrence of the attribute within a group but instead always stays at the first page.
WPC00031816	JR24438	00351	<b>Abstract:</b> DEPENDING FROM WHERE YOU DECIDE TO EDIT LOOKUP TABLE ATTRIBUTS IN THE SECONDARY SPEC, THE DROP DOWN MENU OF LOOKUP TABLE LIST IS NOT CONSISTENT <b>Problem:</b> The problem was with the order in which the screens are called. If the detail view is selected first and then the customer uses Edit screen, the drop down menu of lookup table list is not consistent and it doesn't show the actual Lookup Table Name mapped to the lookup table attribute. <b>Customer impact:</b> The customer should note that this problem is in the Lookup Table dropdown detail view in the spec and edit screen thereafter. The customer wouldn't be able to see the lookup table which is mapped to the corresponding lookup table attribute.
WPC00031823	JR26337	01330	<b>Abstract:</b> UPDATE_SEQUENCE_BATCH_SIZE.SH - NEWBATCHSIZE=1" COMMAND DOESN'T WORK CORRECTLY FOR ORACLE DATABASE <b>Problem :</b> update_sequence_batch_size.sh -newbatchsize=1" command results in sequence to have "Last Value" as "-198" or other abnormal numbers in oracle. The command works fine in db2. <b>Solution:</b> Code fix done to drop and recreate the sequences rather than altering them.
WPC00031841	JR26341	65211	<b>Abstract:</b> MIGRATING DATASOURCES VIA ENV IMPORT AND ENV EXPORT FUNCTIONALITY FROM 5.3 TO 5.3.2 FAILS. <b>Problem:</b> When customers run the import job for migrating data sources in 5.3.2, they get the following error in the log:  [sch_worker_0] ERROR com.ibm.ccd.common.error.AustinException JOB_ID:202- Error finding node: Action, Exception: Error finding node  <b>Cause:</b> During the import in 5.3.2, WPC was looking for that ACTION element and is not finding it because the EXPORT job in 5.3.0 did not generate an XML with ACTION element for each DATASOURCE.
WPC00031865	JR26410	68006	<b>Abstract:</b> THE DEFAULT SCRIPTS WILL NOT BE IMPORTED DURING THE MIGRATION FROM 5.3.1 TO 5.3.2.  <b>Problem:</b> During the migration from 5.3.1 to 5.3.2, customers need to run the script migrate531to532.sh. But some default scripts will not be imported during the migration. You can recognize that the scripts are not available when you click on "Generate Report" located on the multi edit item page. The drop down box contains no scripts and usually customers can select the "Default Rich Search Results Report Script.



Tracking number	APAR	PMR	Synopsis
			<p><b>Cause:</b> The migration script migrate531to532.sh was not uploading the default rich search result report scripts. As a result, after the migration, when the 'generate report' was clicked on the multi-edit page in the 5.3.2 instance, the drop-down did not contain the "Default Rich Search Results Report Script".</p> <p><b>Solution:</b> The migrate531to532.sh script has been modified to enable the upload of the "Default Rich Search Results Report Script".</p> <p><b>Customer impact:</b> When the migrate5301to532.sh script is executed, we get an option of running the migrateRichSearch as a first option. But after this fix, this option is removed from the list since it has dependencies and hence cannot be run independently.</p>
WPC00031872	JR26427	46669	<p><b>Abstract:</b> WHEN YOU USE THE CUSTOM_PAGE.JSP TO RENDER A CUSTOM TOOL AND SETTHE LOCALE TO NULL IN THE URL, YOU CAN NOT LOG IN AGAIN.</p> <p><b>Customer impact:</b> It is possible to render a custom tool with the custom_page.jsp. Customers can add parameters to the URL of the page, and to the parameter locale (&amp;locale=?). To do this, set the locale to null and execute the custom tool which will allow updates to the database. The locale-value in the table must be set to the string null. Once these are set, log in with the user (which executed the custom tool) and then log out.</p>
WPC00031892	JR26538	68233	<p><b>Abstract:</b> BEFORE COPY DOWN ARROW NOT SHOWN IN MULTI-EDIT SCREEN IF "ROWS IN TEXTAREA" SETTING IS SET TOO HIGH</p> <p><b>Problem:</b> If "Rows in text area" in the "My Settings" console is set to a value &gt; 3, then the copy down arrow in the Multi Edit Screen will disappear.</p>
WPC00031894	JR26533	68087	<p><b>Abstract:</b> ARRAYINDEXOUTOFBOUNDSEXCEPTION: - 2147482648 THROWN WHEN VIEWING ITEMS IN MULTIEDIT SCREEN</p> <p><b>Problem:</b> An exception occurs when customers try to view items in the Multi Edit screen and results in an inability to create a Group attribute in a spec.</p>
WPC00031946	JR26660	68706	<p><b>Abstract:</b> JAVA EXCEPTION ON SINGLE EDIT PAGE WHEN USER SETTING LOCALE IS "FRENCH" AND LOCALE OF CATALOG SPEC IS "DUTCH" AND "ENGLISH"</p> <p><b>Problem:</b> A Java exception on single edit page occurs when the user setting locale is "French" and locale of catalog spec is "Dutch" and "English"</p> <p><b>Customer impact:</b> Check to see if the locale is null and then proceed with displaying the specific locale node. The customer should note that this problem occurs only when the current locale in the user settings is not included in the spec for the item.</p>
WPC00031948	JR26678	01797	<p><b>Abstract:</b> IF THE SAME FILENAMES ARE UPLOADED BY DIFFERENT USERS IN THE BINARY ATTRIBUTES, THE EARLIER FILE IS OVERWRITTEN BY NEW ONE</p>

Tracking number	APAR	PMR	Synopsis
			<p><b>Cause:</b> This was an oversight in the original design, and a flat file structure had been implemented, with all files stored in the same directory.</p> <p><b>Solution:</b> Add the option to store files in subdirectories whose names are based upon the time the file was uploaded.</p> <p><b>Customer impact:</b> There is a new entry in common.properties, called allow_multiple_files_with_same_name, which can take values of true or false.</p> <ul style="list-style-type: none"> <li>- If it is set to false, then files for Binary, Image and Thumbnail Image data types will be stored, as before, in the ctg_files subdirectory of the suppliers' base.</li> <li>- If a file is uploaded with the same name as an existing file, the existing file will be overwritten.</li> <li>- If the property is set to true, then files will be stored in subdirectories within ctg_files, whose names will be timestamps in milliseconds since January 1 1970.</li> <li>- The path relative to ctg_files where the file is stored will be visible in the field.</li> </ul> <p>If a category or item is versioned, and a new file with the same name as the old one is uploaded after a version is created, the old version will continue to point to the old file if this feature is being used. Also, in Rich Search, a search for Equal To (filename) will not return any results, as the fields will be (some timestamp)/(filename). Instead, the user should search for Ends With (filename).</p>
WPC00031957	JR23761	61166	<p><b>Abstract:</b> WORKFLOW CANNOT VIEW ITEM CATEGORY ATTRIBUTES</p> <p><b>Problem:</b> Secondary specs which were applied only to a specific catalog were not displayed in collaboration area when the item in that catalog was checked out.</p> <p><b>Solution:</b> When displaying the checked out item in the collaboration area, the secondary specs are now searched for the original item in the source catalog rather than in the collaboration area. The collaboration area and the cloned items in it did not have information on secondary specs for the source catalog.</p>
WPC00031981	JR26773	68295	<p><b>Abstract:</b> PROBLEM: VALUES NOT APPLIED IN MULTI EDIT CRITICAL</p> <p><b>Problem:</b> In Multi Edit screen when customers, for example, select display products 12 to 35, and then select all the lines of items and adds a value to the string attribute which populates all the selected lines from the top box and subsequently clicks Save, they lose some of the values on the top lines and then the screen is constantly refreshed.</p>
WPC00032069	JR26998	77912	<p><b>Abstract:</b> GENERATE REPORT EXCEPTION WIDGET ERROR WITH ATTRIBUTE GROUP OF MIN OCCURRENCE 1 (NONE 0) AND MAX OCCURRENCE 1.</p> <p><b>Problem:</b> Typical scenario: Customers create a catalog with a spec having a grouping type of an attribute with the Max and Min</p>

Tracking number	APAR	PMR	Synopsis
			Occurrence set to 1 and then adds some items to the catalog view in the Multi Edit screen. After clicking 'Generate Report' on the Multi Edit page a Java error occurs.
WPC00031958	JR26720	34307	<p><b>Abstract:</b> ITA_OCCURANCE_ID COLUMN POPULATED WITH -1 DURING MIGRATION TO 5.3.2, SHOULD BE UNIQUE FOR EACH MULTIOCCURRING ATTRIBUTE</p> <p><b>Problem:</b> During the migration process from 5.3.0 (or 5.3.1) to 5.3.1, column ita_occurrence_id will be added to table and will be populated with a value of -1. This column should identify each multi-occurring group or attribute with a unique value. When running WPC specific health checking tools, such multi-occurring attributes incorrectly might be detected as duplicate rows.</p> <p>See the section in these release notes, "Database schema modifications" for more information.</p>
WPC00031824	JR26317	22363	<p><b>Abstract:</b> TIMING ISSUE WHEN UPLOADING DOCUMENTS VIA A BINARY ATTRIBUTE TYPE.</p> <p><b>Problem:</b> The document store (DocStore) is not getting updated with the file that's been uploaded through the binary attribute field in a spec soon enough, to be used in a Validation rule for that attribute. And hence we get a Null pointer exception when the validation is done on that attribute.</p> <p><b>Solution:</b> An optional Boolean parameter forcesync has been added to the ScriptOP getDocByPath(), which will allow the file to be immediately available in the document store (DocStore) if the file exists in the file system.</p> <p><b>Customer impact:</b> Customer can continue with the usual implementation of the script operation getDocByPath. The forcesync Boolean should be set to true only when you need to have the file synced to the document store (DocStore) immediately.</p>
WPC00031561	N/A	N/A	<p><b>Abstract:</b> DynamicSelection.java initQueryObject method needs to be optimized. Performance optimization.</p> <p><b>Problem:</b> This method loads the whole Item object even though only Item Id (internal id used in DB) is sufficient. This problem occurs on all platforms.</p>
WPC00031060	JR25604	45105	<p><b>Abstract:</b> WPC business portlet loses attribute column order, when retrieving from the portlet parameters; the stored index is not taken into account.</p> <p><b>Problem:</b> In the business portlet for the item list, the attributes can be displayed and the sequence can be selected. This information is stored in the portlet parameters (for example, attr path and list index tuples). The selection is kept beyond the session life, the sequence gets lost, though, when the parameter is retrieved and processed (or there is more than one workflow and the workflow is switched).</p>
WPC00031522	JR25889	60082	<b>Abstract:</b> The date search couldn't work as expected

Tracking number	APAR	PMR	Synopsis
			<p><b>Problem:</b> Date rounding failed in at least one case for whole day rounding in GMT time zone (Windows seemed to think that BST was in effect). Also, some unit tests failed because they assumed they are run in PST time zone.</p> <p><b>CAUSE:</b> Incompatibility between Windows and Java date handling (using Date class).</p> <p><b>Solution:</b> Use a different (but less flexible) rounding method based on Calendar class.</p>
WPC00031611	N/A	N/A	<p><b>Abstract:</b> Remove obsolete option "max_number_items_for_realtime_search" from common.properties.default</p> <p><b>Problem:</b> We removed the obsolete option "max_number_items_for_realtime_search" from common.properties.default since it is no longer used by WPC Rich Search can cause confusion to user.</p>
WPC00031605	N/A	N/A	<p><b>Abstract:</b> LOOKUP("PORTAL_CONFIG", "PATHSEPERATOR") CACHE IS NOT USED</p> <p><b>Problem:</b> While calling lookup script operation with (lookup table name, lookup table entry key)/ lookup (string, string) script operation there were few SQL queries being executed. And since this lookup script is being invoked more frequently the queries executed at the backend becomes significant and causes performance issue.</p>
WPC00031617	JR25926	00774	<p><b>Abstract:</b> ADD DATE COLUMN TO PPI, PSI, PSD, PPR TABLES</p> <p><b>Problem:</b> Performance problems were being reported due to a large amount of data in some of the WPC tables (for example, ppi,psi,psd,ppr tables). These tables didn't contain the Date Column which can be used for removing old data from these tables.</p> <p><b>Customer impact:</b> The new date columns get added to the respective tables automatically when a new schema is created. For the existing schemas, the customer should run the migration scripts "add_date_column.sql#1" in Oracle and "add_date_column.sql#2" in DB2 as per their environments.</p>
WPC00031619	JR25928	36633	<p><b>Abstract:</b> CGTL - DataExportToCommerce skips Merch Assoc entries</p> <p><b>Problem:</b> The Report to transfer data from WPC to WCS may skip some merchandising association records. When a product has multiple Product type merchandising associations, which contain multiple SKUs, a loop counter variable may be reinitialized incorrectly, and therefore miss to export some of the associations. This occurs in all environments.</p> <p><b>Solution:</b> This is because the buildCatalogEntries() script uses a for-loop which doesn't re-declare its counter variable and therefore uses the existing variable "i" on the calling stack.</p> <p><b>Customer impact:</b> When a product has multiple "Product" type merchandising associations, which contain multiple SKUs, the export misses some of the associations.</p>

Tracking number	APAR	PMR	Synopsis
WPC00031621	JR25925	01034	<p><b>Abstract:</b> Mishandling of the error due to failure of InvokeSoapServerForDocLit()</p> <p><b>Problem:</b> If a user ID which is not valid is passed to InvokeSoapServerForDocLit() it throws a null instead of throwing a valid error message. Error message "No WPC user found for username 'Admi'" appears while invoking a Web Service. The invoked script using a user 'Admi' who does not exit.</p> <p><b>Customer impact:</b> If InvokeSoapServerForDocLit() is used with invalid username, then the error is displayed instead of a null.</p>
WPC00031625	N/A	N/A	<p><b>Abstract:</b> Splitter Web Service naming and other error</p> <p><b>Problem:</b> WPC introduced the splieeing Web Service in order to improve performance for Portal Integration. The name used for WPC script was not the same as what was expected on the Portal side and caused an error.</p>
WPC00031658	N/A	N/A	<p><b>Abstract:</b> Migration script from 531TF2 , 532 bigint version of DB to corresponding integer version of DB.</p> <p><b>Problem:</b> The migration path from 5.3.x to 5.3.2 is missing "bigint to integer version" in WPC Version 5.3.2.</p> <p><b>Solution:</b> Provided the migration paths and allowing the new paths for migration.</p>
WPC00031857	N/A	N/A	<p><b>Abstract:</b> Dynamic selection can not save the new query string which created by setDynamicSelectionQueryString().</p> <p><b>Problem:</b> The setDynamicSelectionQueryString() script operation modifies the query string of the dynamic selection, but does not initialize the dynamic selection query object. As a result, the items returned by execution of the modified query is the same as the items returned by the query before the modification. This exception occurs for both Oracle as well as DB2. The exception would occur on both Windows and AIX.</p> <p><b>Solution:</b> After setting a new query, the dynamic selection query object would be initialized. This will ensure that the subsequent calls to fetch items or item set for the dynamic selection object will retrieve the items with the modified query.</p> <p><b>Customer impact:</b> The dynamic selection object will be initialized after the query string is modified. So the script used to recreate the issue will run as expected.</p>
WPC00031944	N/A	N/A	<p><b>Abstract:</b> Create a hierarchy mapping from 'hierarchy 2' to 'hierarchy 1' after created 'hierarchy 1' to 'hierarchy 2', there is A Server Error Occurred.</p> <p><b>Problem:</b> If there already exists a mapping from hierarchy1 to hierarchy2, then while creating a hierarchy mapping from hierarchy2 to hierarchy1 in the hierarchy mapping console, the dropdown should not contain the hierarchy1. But it constrained hierarchy1 and if we select it, it gives the server error. This problem occurs for DB2 only. It works fine for Oracle where the hierarchy1 will not be displayed in the dropdown.</p> <p><b>Solution:</b> Whenever there exists a mapping from hierarchy1 to hierarchy2, creating a hierarchy mapping from hierarchy2 to</p>

Tracking number	APAR	PMR	Synopsis
			<p>hierarchy1 will not be possible. The dropdown will not contain the hierarchy1.</p> <p><b>Customer impact:</b> The Server error will not occur since hierarchy1 is not displayed in the dropdown.</p>
WPC00031964	N/A	N/A	<p><b>Abstract:</b> Can't create a product under a category in Master catalog.</p> <p><b>Problem:</b> When a new product is created under in the master catalog using the WCCatentryCtg script, it cannot be saved and results in the following validation error, "The following validation for attribute 'CatalogEntryType' failed: Validation Rule Error Message is: Type can't be changed.</p> <p><b>Solution:</b> The script WCCatentryCtg was using item.getOriginalItem() script operation which returned a null instead of valid object. This script operation is deprecated.</p> <p><b>Customer impact:</b> Customer can create Products &amp; SKUs without any errors.</p>
WPC00032080	N/A	N/A	<p><b>Abstract:</b> Can not create a Merchandising association for a product item.</p> <p><b>Problem:</b> Customers cannot create a Merchandising association since a deprecated script operation, getEntryRelatedItemInfo() was being used.</p> <p><b>Solution:</b> Replaced the deprecated script operation with getEntryRelationshipAttrib()</p>
WPC00031910	N/A	N/A	<p><b>Abstract:</b> The Message box Page cannot lock the Mouse to move and then all UI and WPC instances fail.</p> <p><b>Problem:</b> From "Selection" preview UI, select one or more items and click "Move items into category or multiple categories in the selected hierarchy..." button. In the following page of the UI, after you click Save and click outside of the page, WPC times out.</p> <p><b>Cause:</b> This appears to be a problem with Internet Explorer and not a bug in WPC. The dialog is displayed using the standard JavaScript confirm function. This produces a modal dialog box, and if called from the main window, does not permit the user to move focus back to the main browser window without clicking OK or Cancel. However, if called from a WPC popup dialog, this is not the case. It appears as though WPC is timed out because of the presence of a modal dialog which prevents the user from doing anything without first clearing the dialog.</p> <p><b>Customer impact:</b> Customers can continue using this Page UI but do not click outside of the page.</p>
WPC00032071	N/A	N/A	<p><b>Abstract:</b> The product can not be previewed from WPC.</p> <p><b>Problem:</b> Customers who want to view the commerce store pages receive the pop-up error message, "Generic Error, The store is currently experiencing problems. Try again later"</p>
WPC00031795	JR26216	01356	<p><b>Abstract:</b> ITEM RENDERING ERROR WITH MULTI OCCURRING GROUP TYPE</p> <p><b>Problem:</b> A rendering error occurs when a user attempts to add a lookup table to an attribute group when creating categories.</p>

Tracking number	APAR	PMR	Synopsis
			At first, when the "+" is clicked, it appears to do nothing, and when it's clicked again, a rendering error occurs. This only happens in a tabbed view, where any tab but the first has the multi-occurring group.
WPC00031845	JR26332	81443	<p><b>Abstract:</b> THE METHOD LOOKUP (STRING SLKP, STRING SKEY) DOES NOT RETURN THE VALUES ADDED TO THE LOOKUP TABLE.</p> <p><b>Problem:</b> When lookup (String lkp, String sKey) is called for first time, it loads from the database and on each concurrent load, it gets information from cache, so it does not contain currently added records. The method lookup (LookupTable lkp, String sKey) retrieves the lookup object only from the database on every call. Customer impact: Use lookup (LookupTable lkp,...) to get all the entries added in the current context as it fetches from the database on each call.</p>
WPC00031671	JR26027	39691	<p><b>Abstract:</b> CANNOT USE COMMAS IN DEFINING ATTRIBUTE ENUM VALUES</p> <p><b>Problem:</b> When customers create a product in the WCCatentryCtg and added enum values, containing the character ','(comma), to defining attributes, they do not get expected values at the SKU for the defining attributes. For example, suppose the user added "1", "2" and "3" as enum values for defining attributes to a product, then, SKUs corresponding to that product had values "1", "2" and "3" as options for defining attribute's value. However, if the user added "1,2", "3,4" and "5,67" as enum values, the SKU had the following values:"1", "2", "3", "4", "5" and "67" as options for defining attribute's value, the expected options being "1,2", "3,4" and "5,67".</p> <p><b>Solution:</b> Added a lookup key value pair to WCConfigLkpTbl lookup table, the key being "WC1_DELIMITER". The customer needs to provide a value to this key, such that the value is a character which will not be used in any of the enum values given to a defining attribute of a product. Internally, this value will be used to concatenate all the enum values given to a defining attribute, and to split the concatenated string.</p> <p><b>Customer impact:</b> The customer has to give a value to the key "WC1_DELIMITER" in WCConfigLkpTbl, such that the value is a character which will not be used in any of the enum values assigned to defining attributes of a product.</p>
WPC00031708	JR26091	80560	<p><b>Abstract:</b> CONNECTION HANDLES NOT CLOSED AT EXECUTEQUERY AND EXECUTEUPDATE</p> <p><b>Problem:</b> When executing executeUpdate() and executeQuery() within one connection multiple times, an exception will be thrown after a specific amount of iterations, depending on the database(oracle/db2) which is used in the background.</p>
WPC00031787	JR26237	47198	<p><b>Abstract:</b> INTERNAL CODES INSTEAD OF REAL VALUES FOR LOOKUP ATTRIBUTES. DISPLAYED.</p> <p><b>Problem:</b> From the Collaboration area console after you click the yellow button at the top of the screen, it shows only the internal</p>

Tracking number	APAR	PMR	Synopsis
			<p>code when the expected behavior is to display the real values for LKP attributes. In other words, the internal code is not converted to the real values of the LKP Attribute. This problem affects both Oracle and DB2 and all operating systems.</p> <p>The steps to reproduce this problem are as follows:</p> <ul style="list-style-type: none"> <li>- create a spec (with a LKP attribute), hierarchy and catalog</li> <li>- create a workflow with a step "modify"</li> <li>- create a collaboration area</li> <li>- go to collaboration area console, click step details "modify" and see the item view</li> <li>- click the yellow button at the top of the screen and view a Web Page Dialog which lists the internal codes instead of real values for LKP attribute.</li> </ul> <p><b>Customer impact:</b> The customer should note that this problem is in the display of the Web Page Dialog where the internal codes of Lookup Table Attribute is displayed instead of the real value.</p>
WPC00031874	JR26430	00523	<p><b>Abstract:</b> GETMODIFIEDATTRIBUTEPATHSNEWENTRY" DOES NOT RETURN ATTRIBUTE PATH.</p> <p><b>Problem:</b> When a new item is added to a catalog, the script operation getModifiedAttributePathsNewEntry() called on the EntryChangedData object does not return attribute paths. This script operation, however works when a new category is added.</p>
WPC00031880	JR26457	82781	<p><b>Abstract:</b> INSTALLATION PROBLEM DURING THE EXECUTION OF THE SCRIPT INSTALL_WAR.SH.</p> <p><b>Problem:</b> When customers migrate and then install the WPC application on the server using the script install_war.sh, they receive an error message similar to this one:</p> <p>WASX7017E: Exception received while running file "/opt/IBM/WPC53/bin/websphere/install_war.jacl"; exception information: com.ibm.ws.scripting.ScriptingException : WASX7279E: An application with name "ccd_server1" already exists. Select a different name.</p>
WPC00031893	JR26536	65519	<p><b>Abstract:</b> IMPORTED WORKFLOWS SHOW ALL ATTRIBUTES AS READ-ONLY.</p> <p><b>Problem:</b> During the import of workflow, the required and editable attributes were not installed properly and so they were displayed as viewable attributes only. This error was in the WPC code due to improper installation of attribute collections in the step of workflow during import. This occurs in both Oracle and DB2.</p> <p><b>Customer impact:</b> The customer should re-save all the steps of the workflow after importing the workflow. To do this, go to the Workflow Console, re-save the workflow step for the imported workflow, and the workflow itself.</p>
WPC00031911	JR26578	68235	<p><b>Abstract:</b> THE DISPLAYING OF THE WORKFLOW STEPS IN</p>



Tracking number	APAR	PMR	Synopsis
			<p>THE LEFT NAVIGATION HAS NO FILTER TO DISABLE INACCESSIBLE STEPS.</p> <p><b>Problem:</b> When customers create a workflow with some steps it is possible to define the users that have access to these steps. In the collaboration area console you have the possibility to configure a filter to disable the inaccessible steps.</p> <p>The steps can also be displayed in the left navigation pane, but there is no filter and all steps will be displayed. Therefore, customers have two different views for the same WPC artifact with different behavior.</p> <p><b>Customer impact:</b> A new right-click menu item is available to hide inaccessible steps. If selected, then steps will only be displayed if the currently logged-in user is a Performer for the step or an Administrator for the Collaboration Area.</p>
WPC00031918	JR26589	21064	<p><b>Abstract:</b> WHEN DELETING AN ITEM THE SCRIPT IS UNABLE TO UPDATE THE ARCHIVE CATALOG.</p> <p><b>Problem:</b> The typical scenario for this problem might be that a customer has 2 catalogs,"21064 Catalog" and "21064 Archive Catalog". Both catalogs use exactly similar, but different specs. "21064 Catalog" has a post save script attached to it. If an item is deleted or modified, the simple post save script updates the "21064 Archive catalog" by creating an item there with the same values of the original item's values. Customers should note that this problem occurs when there has to be an entry added in archive catalog on deletion of an item in the main catalog.</p>
WPC00031959	JR26719	00524	<p><b>Abstract:</b> GETCTGITEMCATEGORYPATHS() DOES NOT RETURN NEW PATH IF ITEMS ARE BEEING REMAPPED BETWEEN CATEGORIES IN LEFT NAV PANE.</p> <p><b>Problem:</b> This problem is on remapping an item in the left navigation pane between categories using cut and paste or copy and paste. When doing so, the GETCTGITEMCATEGORYPATHS() was not giving the right old path and new path of the item. Exact error which customer will receive is that the item's old category path and the new category path are the same on running the post save script mentioned.</p> <p>Customer impact: The customer should note that this change is for "Item Recategorization" in the left navigation pane. The post save script used should be the same as mentioned above if you are recategorizing from UI and if it has to be for a specific item you can use the script mentioned below:</p> <pre> var cat = getCtgByName("catalog_name"); var item = cat.getCtgItemByPrimaryKey("item_pk");  var catTree = getCategoryTreeByName("hierarchy_name"); var cat2 = catTree.getCategoryByPath("category2","/");  toCats = []; toCats[0] = cat2; item.moveCtgItemToCategories(toCats); </pre>

Tracking number	APAR	PMR	Synopsis
			<pre>var e = item.saveCtgItem();  var olditem = item.getOriginalEntry(); var oldpath = olditem.getCtgItemCategoryPaths("/"); var newpath = item.getCtgItemCategoryPaths("/"); out.writeln("newpaths : " + newpath); out.writeln("oldpaths : " + oldpath);</pre>
WPC00031960	JR26728	00578	<p><b>Abstract:</b> NO HYPERLINK FOR LOCATION ATTRIBUTES OF TYPE URL.</p> <p><b>Problem:</b> Customers create a location attribute of type URL and it fails to produce a hyperlink.</p>
WPC00031983	JR26738	N/A	<p><b>Abstract:</b> INCORRECT INDEX CREATION SYNTAX FOR INDEX ICTG_ITM_3 ON DB2.</p> <p><b>Problem:</b> When running migration scripts to migrate from 5.3.x to 5.3.2, creation of new index ictg_itm_3 fails with syntax error:  SQL0104N An unexpected token   "(" was found following "ctg_itm_item   ( upper".Expected tokens may include: ", ".  SQLSTATE=42601</p> <p>The index is not created after the migration scripts are run, and is hence not available in 5.3.2.</p> <p><b>Solution:</b> The migration script contained the SQL query to create the index. Yet the syntax used for the query was incorrect for DB2. DB2 does not support creation of functional indexes. This index creation is removed from the migration scripts since this index is not created originally for even a fresh 5.3.2 instance in DB2, and was never used for DB2.</p> <p>Customer impact: The index ictg_itm_3 will not be created during migration for DB2.</p>
WPC00031986	JR26774	N/A	<p><b>Abstract:</b> LOOKUP TABLE POPUP VALUES SHOULD BE SORTABLE ASCENDING OR DESCENDING ON ANY COLUMN.</p> <p><b>Problem:</b> In 5.2.1, the values located at the bottom of a displayed table in the lookup table popup, can be sorted with ascending or descending key order on any column. In Version 5.3.2, these same values can only be sorted in ascending key order.</p> <p><b>Solution:</b> The values can now be sorted using both ascending and descending key order on the column by clicking the column header. Click the header of the current sorting column to reverse the order of the sort.</p>
WPC00031987	JR26775	N/A	<p><b>Abstract:</b> LOOKUP TABLE POPUP (OPENED FROM LOOKUP ATTRIBUTES ON ITEM-EDIT PAGE)SIZE SHOULD BE LARGER OR MADE CONFIGURABLE BY USER.</p> <p><b>Problem:</b> The lookup table popup window is sized too small and customers can't see values that want to find.</p> <p><b>Cause:</b> The height and width values were hard coded.</p>
WPC00031953	JR26699	20581	<p><b>Abstract:</b> IN 5.3.2.X, WHEN THE SECONDARY SPEC OF A</p>

Tracking number	APAR	PMR	Synopsis
			<p>LOOKUP TABLE HAS A SPECIAL CHARACTER, IT'LL BREAK PORTAL RESPONSE AND ACTION.</p> <p><b>Problem:</b> Customers reported that in the secondary spec of a lookup table, there is a special character (" - double quotes). This caused WPC to disconnect the response of Portal when requesting information from the secondary spec, and therefore Portal was unable to SAVE.</p>
WPC00031519	N/A	N/A	<p><b>Abstract:</b> Problem with locks if already acquired by another thread in the same JVM.</p> <p><b>Problem:</b> Customers attempt to acquire a database lock that is already acquired by a different thread of the same JVM (for example, 2 concurrent users would result in the JVM for the Application Server having 2 threads, and both users attempt to change the same item). Therefore, the process for checking locks throws an exception instead of returning false and can result in unpredictable behavior, or changes being made despite another user having the lock.</p>
WPC00031924	N/A	N/A	<p><b>Abstract:</b> Add hierarchy mapping through 'Add' button in UI doesn't work successfully when add a new hierarchy</p> <p><b>Problem:</b> Customers have problems adding a hierarchy mapping to a new hierarchy.</p>
WPC00031843	N/A	N/A	<p><b>Abstract:</b> Error display in Distribution Group page</p> <p><b>Problem:</b> Distribution Group is not displayed properly because It contains some " " characters in the list.</p>
WPC00030218	N/A	N/A	<p><b>Abstract:</b> The getEntryRelatedInfo() script returns info of a non-related item</p> <p><b>Problem:</b> Customers are unable to get the related information for the expected item when using the getEntryRelatedInfo() script.</p>
WPC00030851	N/A	N/A	<p><b>Abstract:</b> isEntryReserved short-term caching needs to be put back.</p> <p><b>Problem:</b> A performance optimization was removed in 5.3.1 because it was causing incorrect behavior.</p> <p><b>Solution:</b> A code fix has been provided for the original problem, and the performance optimization has been re-enabled.</p> <p><b>Customer impact:</b> Customers may find performance improvements when working with categories and items in a workflow context.</p>
WPC00031367	JR22743	37154	<p><b>Abstract:</b> Item ordering behavior inconsistent between catalogs using display attributes versus those not using them.</p> <p><b>Problem:</b> In order to enable ordering for a catalog with no display attribute, the steps included checking the "use ordering" check box on the catalog attributes page and then actually changing the order of any item in the left pane by cutting and pasting it to a different location. For catalogs with a display attribute, there was an additional last step which was to refresh the category containing the reordered item.</p>

Tracking number	APAR	PMR	Synopsis
			<p><b>Solution:</b> The extra step of having to refresh the containing category was eliminated for catalogs with a display attribute.</p> <p><b>Customer impact:</b> Behavior of ordering functionality is now consistent across all catalogs, irrespective of whether the primary key or a display attribute is used in the left pane. This will ensure less confusion and reduce the risk of user error.</p>
WPC00031520	N/A	N/A	<p><b>Abstract:</b> Post-save script for catalog cannot be set to an all-catalog script using scripting.</p> <p><b>Problem:</b> The setContainerProperties script operation checks that the catalog ID of the script being created is the same as that of the catalog, and was failing to check for the case where the script is an all-catalog script.</p> <p><b>Solution:</b> Check for the case of an all-catalog script.</p> <p><b>Customer impact:</b> Customers can now create an all-catalog script using the scripting interface.</p>
WPC00031558	JR25935	65224	<p><b>Abstract:</b> WPC stores Web Services transactions, even if the "Store Requests" and "Store Replies" options are deactivated for the Web Service.</p> <p><b>Problem:</b> When "Store Requests" and "Store Replies" options are disabled for the Web Service, an empty record is inserted for Web Service transactions. This causes unnecessary data and load on the database, which will have a minor performance impact and requires maintenance effort to clean up WTR table.</p>
WPC00031600	N/A	N/A	<p><b>Abstract:</b> Pressing REMOVE on a nested FIXIT step causes Check in instead of Drop.</p> <p><b>Problem:</b> When customers attempt to drop an item from a workflow step it causes a check in instead of it being removed. This problem affects any workflow step transition especially in a nested workflow setups.</p> <p><b>Cause:</b> (i) Non-SUCCESS exit values were not honored when leaving nested workflow. (ii) Presence of FIXIT in inner workflow was not expected by WPC</p> <p><b>Solution:</b> If an item is sent to Fixit it will always go to the overall Fixit step no matter what level of the workflow it is at. Code fix added to honor Non-SUCCESS exits from inner workflows</p> <p><b>Customer impact:</b> Workflows can now be created with non-Success routes out of inner workflows that will be honored. It is recommended that customers do not nest workflows which are hard-wired to FIXIT. There should only ever be one Fixit in a workflow or nested workflow. However, if this is done, then items going to Fixit will now go straight to the main Fixit step</p>
WPC00031607	N/A	N/A	<p><b>Abstract:</b> The jmsGetMQConnectionFactory() script op throws "invalid security authentication supplied for MQQueueManager" error when used with MQ Versions 6.0.</p> <p><b>Problem:</b> Tighter security in MQ version 6 require a username that exists on the MQ system in the group mqm.</p> <p><b>Solution:</b> The jmsGetQueueConnectionFactory script operation now has 2 additional optional String parameters, a username and password to use to connect to the MQ server. The user that these relate to must</p>

Tracking number	APAR	PMR	Synopsis
			<p>be in the mqm group on the MQ system.</p> <p>There are also 2 additional properties in common.properties, mq_username and mq_password, which are used as the default. If the credentials are not passed using either method, then WPC will attempt to obtain a connection the old way, but this will still fail unless a user exists on the MQ system with the same username as the user running the WPC processes, and this user is in group mqm.</p> <p><b>Customer impact:</b> In order to successfully obtain an MQ connection in version 6, customers should either change calls to the jmsGetQueueConnection script operation to pass the username and password of a user on the MQ system in group mqm, or set these as the values of mq_username and mq_password in common.properties, or run the WPC processes as a user that exists on the MQ system in group mqm.</p>
WPC00031701	N/A	N/A	<p><b>Abstract:</b> Errors in db_export_localized.sh when running db_export.sh</p> <p><b>Problem:</b> The db2_export_localized.sh script and db2_importto532_localized.sh script have ### (3 #'s) in the shell scripts to represent comments. These (3#'s) are removed while packaging these shell scripts for enterprise build, which is WPC standard way of handling shell scripts for enterprise build. It occurs on all platforms.</p> <p><b>Solution:</b> Removed the usage of 3#'s from these shell scripts to have those lines treated as comments.</p>
WPC00031814	N/A	N/A	<p><b>Abstract:</b> Script ops getDestinationEntrySetForRelatedEntries/getSourceEntrySetForRelatedEntries methods can not work.</p> <p><b>Problem:</b> When customers execute the sample scripts "getDestinationEntrySetForRelatedEntries.script and "getSourceEntrySetForRelatedEntries" they receive unexpected errors and behavior.</p>
WPC00031851	N/A	N/A	<p><b>Abstract:</b> Utility portlets should display "This portlet does not work independently" on Util page.</p> <p><b>Problem:</b> Customers cannot view the utility portlets after installing WPC Version 5.3.2.</p>
WPC00031855	N/A	N/A	<p><b>Abstract:</b> Error occurs when clone item with the time zone type attribute.</p> <p><b>Problem:</b> Customers cannot clone an item when it has a time zone attribute associated with it.</p>
WPC00031935	N/A	N/A	<p><b>Abstract:</b> The search function in the hierarchy mapping popup window is not finding the main hierarchy.</p> <p><b>Problem:</b> The search query was modified in an earlier interim fix for WPC 532 to enable search by attributes other than primary key (for example a display attribute) for item recategorization in the hierarchy popup window which led to this problem.</p> <p>The recategorize popup or hierarchy popup window in the right pane for item and category edit screens allows the customer to</p>

Tracking number	APAR	PMR	Synopsis
			search a new category only by the primary key. Yet, the primary key is a meaningless sequence which is never displayed anywhere else in WPC. Therefore, searching a new category by the "display attribute" is a better option the searching with the primary key.
WPC00031966	N/A	N/A	<b>Abstract:</b> There is 'null' showing in UI when select a another location language in "Locale for Item and Category Data Display" in 'My Setting' <b>Problem:</b> The display attribute name was not handled properly for the locales which were not localized for the display attribute in the spec and therefore returning a "null" in the UI.
WPC00031969	N/A	N/A	<b>Abstract:</b> Generate Report error will occur if the item has a null currency node. <b>Problem:</b> Create a catalog with a spec having a currency type attribute. Add an item to the catalog, with the currency attribute value empty. When customers click 'Generate Report' in multi edit page they receive an error.
WPC00031943	N/A	N/A	<b>Abstract:</b> Add_new_indexes.sql script contains an unexpected token, "(" , which causes an SQL0104N error when running the MIGRATE5301TO532.SH script <b>Problem:</b> Customers who run the migrate5301to532.sh script for DB2 migration will receive an error.
WPC00014643	N/A	N/A	<b>Abstract:</b> The Lookup Table Import Spec spec is not returned by Spec Explorer Search. <b>Problem:</b> System defined specs (for example, "Lookup Table Import Spec","Catalog Summary Inputs","Sample String Replace Macro Script Input", "xCBL 3.0 Inputs") are not returned by Spec Explorer Search in the Left Pane. However, the "Default Hierarchy Primary Spec" is returned by the search. This occurs in all environments. <b>Solution:</b> Displayed the Specs and Attributes that are common for all companies as viewable when viewed from Left Pane. <b>Customer impact:</b> This impacts if the specs are viewed from Left Pane using Specs Explorer Search. As a workaround these specs can be viewed from Specs Console
WPC00031890	JR26512	66123	<b>Abstract:</b> IT IS NOT POSSIBLE TO CHANGE VALUE OF AN ATTRIBUTE WHEN IT HAS THE MAXIMUM NUMBER OF CHARACTERS. <b>Problem:</b> Customers reported that if a text field had a length-limit, and the text in that field reached to the limit (for example, 15 characters in a field that had a 15 character maximum) and they subsequently attempted to over write the text field with new input, they were presented with an error message that stated that the box was full. Normally, customers can over write text by first deleting the selected characters. Instead, despite attempting to "type over" the existing characters the error message persisted. <b>Cause:</b> This defect applied to all platforms. It was an issue with Java script that was counting the length of the field without taking into account the number of selected characters that would be

Tracking number	APAR	PMR	Synopsis
			replaced. <b>Solution:</b> WPC modified the Java script to include a check for selected characters to address this behavior. <b>Customer impact:</b> The workaround to this issue is to delete the characters before typing in the new ones.
WPC00031247	N/A	N/A	<b>Abstract:</b> The script, /src/db/schema/trigo/add_other_ccd_users.sh doesn't work. <b>Problem:</b> Customers who try to create a user with the /src/db/schema/trigo/add_other_ccd_users.sh script are unsuccessful and receive the error: DB21034E: The command was processed as an SQL statement because it was not a valid Command Line Processor command. During SQL processing it returned: SQL0408N A value is not compatible with the data type of its assignment target. Target name is "SCU_LDAP_SVR_URL". SQLSTATE=42821
WPC00032090	JR26502	01506	<b>Abstract:</b> lookup table popup window dose not work in the search portlet <b>Problem:</b> Customers are unable to use the lookup table popup window while in the search portlet. <b>Solution:</b> Before rendering the special characters the new fix corrects the value received from WPC by using escapeForHTML() and renders the correct value <b>Customer impact:</b> For customers using portal integration will be able to use special characters without any problems.

## 2.8 Fixes from WPC Version 5.3.2, Interim Fix 6

Tracking number	APAR	PMR	Synopsis
WPC00033342	JR28480	16979	<b>Abstract:</b> The buttons needed to work with multi-occurring attributes are not aligned in a row and are spread over several lines. This makes the item edit screen appear less user-friendly. <b>Problem:</b> The buttons were placed in several lines due to which less attributes fit in a screen. <b>Solution:</b> A code fix is provided to align the buttons in a horizontal line. <b>Customer impact:</b> None
WPC00033105	JR28307	88525	<b>Abstract:</b> Items get stuck in workflow step and error is reported in UI and logs. <b>Problem:</b> If the item spec is modified while items are in workflow steps, the items get stuck and error is displayed in the UI and exception is thrown. <b>Customer impact:</b> None
WPC00033282			<b>Abstract:</b> Migration from WPC FP004 to FP006

Tracking number	APAR	PMR	Synopsis
			affects security settings <b>Problem:</b> When a WPC FP004 schema is migrated to FP006, certain access control security settings are not migrated properly. <b>Customer impact:</b> Customers should follow instructions in Section 4.2 Database Schema Modifications of this release notes

## 2.9 Fixes from WPC Version 5.3.2, Interim Fix 5

Tracking number	APAR	PMR	Synopsis
WPC00032621	JR27810	76409	<b>Abstract:</b> Workflow engine times out <b>Problem:</b> The workflow engine causes a deadlock under certain conditions <b>Customer impact:</b> None
WPC00032616	JR27701	74301	<b>Abstract:</b> Removing a secondary spec causes a Save failure. <b>Problem:</b> The following conditions exemplify what precedes the error: <ul style="list-style-type: none"> <li>a. The log level must be set to debug for class com.ibm.ccd.element.common.EntryValidator in log.xml</li> <li>b. An item is mapped to a category with a secondary spec.</li> <li>c. An attribute of the secondary spec is edited.</li> <li>d. The secondary spec is removed from an item.</li> </ul> After these steps are complete, an exception occurs and is visible in exception.log. In addition, you cannot save the item. <b>Customer Impact:</b> None

## 2.10 Fixes from WPC Version 5.3.2, Interim Fix 4

Tracking number	APAR	PMR	Synopsis
WPC00032553	JR27680	63376	<b>Abstract:</b> Workflow engine times out <b>Problem:</b> The workflow engine causes a deadlock under certain rare use cases. <b>Customer impact:</b> None
WPC00032558	JR27701	74301	<b>Abstract:</b> Adding a secondary spec during a workflow causes an exception <b>Problem:</b> When you add a secondary spec during the execution of a workflow, items get stuck and fails to move to the next step. <b>Customer impact:</b> None



## 2.11 Fixes from WPC Version 5.3.2, Interim Fix 3

Tracking number	APAR	PMR	Synopsis
WPC00032439	JR27513	63396	<p><b>Abstract:</b> THE MANDATORY CHECK ICON SHOWS INCONSISTENT BEHAVIOR</p> <p><b>Problem:</b> The following problems were apparent when working with items in multi-tab views after validation errors occur across more than one tab:</p> <ol style="list-style-type: none"> <li>1. If you change tabs after correcting a validation error, the status icon changes from the flashing red Validation Failed icon to the yellow Dirty icon. This also happens if you click anything that causes a server read or write.</li> <li>2. If you navigate to another tab by clicking the Validation Failed icon and selecting a validation error, then back to the previous tab by clicking the tab header, the tab content does not change.</li> <li>3. If you click the Validation Failed icon after correcting a validation error, the icon changes to the Dirty icon and the pop-up reports that there are no validation errors. This occurs even if previously-reported errors remain uncorrected.</li> </ol> <p><b>Solution:</b> Code fixes have been provided to correct these problems.</p> <p><b>Customer impact:</b> No impact</p>

## 2.12 Fixes from WPC Version 5.3.2, Interim Fix 2

PMR	APAR	ID	Synopsis
01517	JR26379	WPC00031852	<p><b>Abstract:</b></p> <p>User interface: A previous fix for a rendering issue in the look-up tables introduced a new error causing a time-out that subsequently leads to an error message. Similarly to the previous error when the + sign for the group attribute is clicked it causes a time-out but this error also requires a Linked Attribute to be in the same spec.</p> <p><b>Problem:</b></p> <p>For an Item with a Linked Attribute as part of the spec; when the "+" sign for the group attribute is clicked there is a time-out and widget error.</p> <p><b>Solution:</b></p> <p>A fix for this problem is included in this interim fix.</p> <p><b>Customer impact:</b></p>

			This is a UI code fix and does not require any implementation change in a customer environment.
74813	JR26065	WPC00031697	<p><b>Abstract:</b> During the migration from Version 5.2.1.x to Version 5.3.x, several advanced selections functions are not available.</p> <p><b>Problem:</b> When creating an export you do not see the dynamic selections in the drop down. Only the basic selections and selections saved through searches were shown. Also, the <code>getSelectionByName()</code> script operation does not return a dynamic selection object when the selection is a dynamic selection.</p> <p><b>Solution:</b> In addition to basic selections and selections saved through searches, dynamic selections are also displayed in the drop down when creating exports. The script <code>getSelectionByName()</code> returns the appropriate selection type object.</p> <p><b>Customer impact:</b> No changes to the customer implementation are required.</p>
74813	JR26075	WPC00031702	<p><b>Abstract:</b> The script operation to set the dynamic selection rule string, <code>setDynamicSelectionQueryString (String query)</code>, is missing in the WPC Scripting API.</p> <p><b>Problem:</b> The <code>setDynamicSelectionQueryString()</code> script operation was not present in the WPC Version 5.3.2</p> <p><b>Solution:</b> The script operation is available in this interim fix.</p> <p><b>Customer impact:</b> Customers can now use this operation as intended.</p>
00387	JR26193	WPC00031753	<p><b>Abstract:</b> In the Scripts Console, the error message for the script exception for WPC Version 5.3.X is vague as compared with previous versions.</p> <p><b>Problem:</b> Script exception messages were unclear in the WPC versions 5.3.x, compared to the messages in WPC 5.2.1.</p> <p><b>Solution:</b></p>

			<p>Logging detail has been improved/corrected via code fixes</p> <p><b>Customer impact:</b> No customer implementation changes are needed to gain the improved error messages.</p>
82814	JR26580	WPC00031913	<p><b>Abstract:</b> For DB2: During WPC migration of the database schema using the migrate5301to532.sh script from Version 5.3.1 (or earlier) to Version 5.3.2, the user encounters an error while running the ALTER TABLE statement.</p> <p><b>Problem:</b> Incorrect syntax was used while adding a column with the ALTER TABLE statement in WorkflowCache.sql for DB2.</p> <p><b>Solution:</b> The migrate5301to532.sh script has been fixed to correct the problem.</p> <p><b>Customer impact:</b> No changes to the customer implementation are required.</p>
67020	JR26595	WPC00031929	<p><b>Abstract:</b> When using the same Script names in different companies, only one copy of the script will be cached and used in the script cache.</p> <p><b>Problem:</b> When using multiple companies on a single WPC instance, for example for testing, this might lead to unexpected behavior when the contents of a script are different between companies.</p> <p><b>Solution:</b> A code fix has been implemented to correct the defect.</p> <p><b>Customer impact:</b> No changes to the customer implementation are required.</p>
00554	JR26586	WPC00031919	<p><b>Abstract:</b> When creating an item in a catalog from a post save script of a hierarchy, from which a category is being deleted, this causes a locking problem and the item cannot be created.</p> <p><b>Problem:</b> It is not possible to create an item in a catalog from a post save script of another hierarchy, from which a category is being</p>

			<p>deleted.</p> <p><b>Solution:</b> The code has been implemented to correct this defect.</p> <p><b>Customer impact:</b> No changes to the customer implementation are required.</p>
66136	JR26557	WPC00031901	<p><b>Abstract:</b> Incorrect handling of sequence attributes may cause "Unique Constraint For Attribute Is Violated" errors.</p> <p><b>Problem:</b> The sequence cache does not deal properly with the company ID. This only applies under certain conditions: - working with multiple companies in parallel - using specs with primary key of type "sequence" - using the same names for specs and catalogs in different companies.</p> <p><b>Solution:</b> A code has been implemented to correct this defect.</p> <p><b>Customer impact:</b> No changes to the customer implementation are required.</p>
66566	JR26556	WPC00031898	<p><b>Abstract:</b> When customers try to delete an occurrence of an attribute in a workflow, an exception is thrown.</p> <p><b>Problem:</b> Problem occurs when deleting a multi-occurring group when the group contains a read-only lookup table attribute.</p> <p><b>Solution:</b> A code fix for this problem is included in this interim fix.</p> <p><b>Customer impact:</b> No changes to the customer implementation are required.</p>
65890	JR26511	WPC00031889	<p><b>Abstract:</b> The Add Hierarchy Mappings pop-up (in list view mode) displays an incorrect number of categories when more than 10 categories exist at the same hierarchy level.</p> <p><b>Problem:</b></p>

			<p>The number of categories to process was being subtracted by 1 because the Normal View needed one more to determine whether or not to display the "First n categories message", so in the List View (which this popup defaults to) only 9 were being displayed.</p> <p><b>Solution:</b> Only subtract 1 if this is the Normal View.</p> <p><b>Customer impact:</b> No changes to the customer implementation are required.</p>
67974	JR26507	WPC00031888	<p><b>Abstract:</b> The Item Differences and History Screen in WPC Version 5.3.x no longer display the exit values for each step.</p> <p><b>Problem:</b> The WPC database was not being populated with the exit values and transitions.</p> <p><b>Solution:</b> A code fix for this problem is included in the interim fix.</p> <p><b>Customer impact:</b> No changes to the customer implementation are required, however, due to the nature of the defect, exit values for steps from before this fix is applied will continue to be unavailable.</p>
N/A	N/A	WPC00031909	<p><b>Abstract:</b> The script jmsGetMQConnectionFactory operation fails for MQ Version 6</p> <p><b>Problem:</b> Tightened security in MQ Version 6 requires a username in group mqm, and there was no means of specifying a username. This meant that the script operation would only succeed if a user with the same username as the user running the WPC processes existed on the MQ system, and that user was in group mqm.</p> <p><b>Solution:</b> The jmsGetQueueConnection script operation now has 2 additional optional String parameters, a username and password to use to connect to the MQ server. There are also 2 additional properties in common.properties, mq_username and mq_password, which are used as the default. If no credentials are supplied using either of these methods, then the system will attempt to get a queue connection the old way.</p> <p><b>Customer impact:</b></p>

			<p>Customers can now use the <code>jmsGetMQConnectionFactory</code> script operation as intended. However, in order for it to succeed, a username and password for a user on the MQ system in group <code>mqm</code> must be either provided as parameters in the script operation or set in <code>common.properties</code> as <code>mq_username</code> and <code>mq_password</code>, for example:</p> <p><b>Instead of:</b></p> <pre>jmsQueueConnection = I jmsConnectionFactory.jmsGetQueueConnection();</pre> <p><b>Use:</b></p> <pre>jmsQueueConnection = jmsConnectionFactory.jmsGetQueueConnection("mquser","mqpasswd");</pre> <p>e <code>jmsConnectionFactory</code> is a <code>QueueConnectionFactory</code>, <code>mquser</code> is a username in the <code>mqm</code> group and <code>mqpasswd</code> is the password for this user</p> <p>If credentials are supplied both in <code>common.properties</code> and as parameters in the script operation, those passed as parameters take precedence. If no credentials are supplied, either as parameters in the script operation or in <code>common.properties</code>, then the script operation will continue to fail unless a user with the same username as the user running the WPC processes exists on the MQ system, and that user is in group <code>mqm</code>.</p>
68854	JR26633	WPC00031941	<p><b>Abstract:</b></p> <p>The <code>getItemSetForCatalog()</code> method results in java exceptions when using a loop with <code>forEachItemSetElement</code>. This exception also occurs for the <code>forEachCtgItem</code> method.</p> <p><b>Problem:</b></p> <p>Data corruption caused the incorrect behavior of the <code>getItemSetForCatalog()</code>.</p> <p><b>Solution:</b></p> <p>A cleanup mechanism has been provided to resolve the corruption, and product fixes have been implemented to prevent certain corruptions from occurring.</p> <p><b>Customer impact:</b></p> <p>No changes to the customer implementation are required.</p>

82814	JR26586	WPC00031919	<p><b>Abstract:</b> When customers create an item in a catalog from a post save script of a hierarchy from which a category is being deleted, a locking problem occurs and the item cannot be created.</p> <p><b>Problem:</b> The saveCtgItem() script operation is using an action from the script context, which is set to DELETE since that is the action performed on the category. The operation should be using INSERT, since it is creating new item.</p> <p><b>Solution:</b> A code fix for this problem is included in the interim fix.</p> <p><b>Customer impact:</b> No changes to the customer implementation are required.</p>
00257	JR26477	WPC00031884	<p><b>Abstract:</b> Scripting API: Customers receive incorrect results when using the OR search operator with the SEARCHQUERY API.</p> <p><b>Problem:</b> The current query requires that the item must have BOTH attributes in order to be matched. However, if the item only has one attribute that matches and doesn't have the other attribute, it will not match.</p> <p><b>Solution:</b> A code fix for this problem is included in the interim fix.</p> <p><b>Customer impact:</b> At the present time, WQL queries that contain an OR operator, must have a select part of the simple form "select item from catalog ...". More complex forms of the select part, for example, "select item, &lt;attribute&gt; from catalog ...", are not supported at the present time. Often, this type of more complex instances of a select part can be replaced by the simple "select item from catalog ..." form and then followed by the explicit extraction of additional desired item attributes by additional WPC script operation calls.</p>
65355	JR26352	WPC00031849	<p><b>Abstract:</b> Customers receive a JavaScript error when selecting the List View while attempting to add a hierarchy mapping to an item in the Item view.</p>

			<p><b>Problem:</b> The JavaScript variable GENERAL_INFO_LOADING_JS was not being properly initialized, causing the error to occur.</p> <p><b>Solution:</b> A code fix for this problem is included in the interim fix.</p> <p><b>Customer impact:</b> No changes to the customer implementation are required.</p>
01517	JR26379	WPC00031852	<p><b>Abstract:</b> User interface: A previous fix for a rendering issue in the look-up tables introduced a new error causing a time-out that subsequently leads to an error message. Similarly to the previous error when the + sign for the group attribute is clicked it causes a time-out but this error also requires a Linked Attribute to be in the same spec.</p> <p><b>Problem:</b> For an Item with a Linked Attribute as part of the spec; when the “+” sign for the group attribute is clicked there is a time-out and widget error.</p> <p><b>Solution:</b> A fix for this problem is included in this interim fix.</p> <p><b>Customer impact:</b> This is a UI code fix and does not require any implementation change in a customer environment.</p>
74813	JR26065	WPC00031697	<p><b>Abstract:</b> During the migration from Version 5.2.1.x to Version 5.3.x, several advanced selections functions are not available.</p> <p><b>Problem:</b> When creating an export you do not see the dynamic selections in the drop down. Only the basic selections and selections saved through searches were shown. Also, the getSelectionByName() script operation does not return a dynamic selection object when the selection is a dynamic selection.</p> <p><b>Solution:</b> In addition to basic selections and selections saved through searches, dynamic selections are also displayed in the drop down when creating exports. The script getSelectionByName() returns the appropriate selection type object.</p> <p><b>Customer impact:</b> No changes to the customer implementation are required.</p>



## 2.13 Fixes from WPC Version 5.3.2, Interim Fix 1

PMR	APAR	ID	Synopsis
01216	JR26254	WPC00031799	<p><b>Abstract:</b> Workflow memory leak.</p> <p><b>Problem:</b> The workflow engine has a memory leak which causes out of memory errors.</p> <p><b>Solution:</b> A code-fix has been made to explicitly clean-up and prevent the workflow engine from leaking memory.</p> <p><b>Customer impact:</b> No changes are needed to customer implementations, memory leaks in workflow should not occur after applying the interim fix.</p>
01356	JR26216	WPC00031797	<p><b>Abstract:</b> Item rendering error with multi occurring group type.</p> <p><b>Problem:</b> A rendering error occurs when a user attempts to add a lookup table to an attribute group when creating categories.</p> <p><b>Solution:</b> A code-fix has been made to eliminate the widget error from occurring.</p> <p><b>Customer impact:</b> No changes are needed for customer implementations, the rendering error no longer will occur after interim fix application.</p>
83302	JR26288	WPC00031815	<p><b>Abstract:</b> Migration from WPC Version 5.3.0 to Version 5.3.2 problem</p> <p><b>Problem:</b> The migration shell script was failing with multiple errors. This problem affects migration from WPC Version 5.3.1 to 5.3.2 as well.</p> <p><b>Solution:</b> The shell script has been corrected, and code-fixes have been completed for the migration.</p> <p><b>Customer impact:</b> Customer migrating from 5.3.0 or 5.3.1 can retry their migrations using the provided scripts. Such customers should use a copy of the database on which there has not been any migration attempts.</p>

### 3. Issues and limitations

This maintenance release contains the following known issues.

Tracking Number	Description
WPC0003262	The workflow engine times out under certain conditions. This issue affects customers using the Solaris operating system.
WPC00032939	To get rid of the error the parameter max_spec_timeout has to be set to a lower value. There will be a performance impact. Currently we depend on the polling mechanism and time-out for synching the specs cache across jvm. This will be enhanced to the notification mechanism in future releases.
WPC00028934	<p>The following incorrect handlings of strings containing special character strings (such as &amp;quot;) are permanent limitations:</p> <p>If a selection called &amp;quot; is created, it will be displayed in the Selections Console as " .</p> <p>If an import is assigned to an Access Control Group (ACG) called &amp;quot;, then the ACG name will be displayed in the Import Console as " in the case where the user has access to modify the ACG.</p> <p>If a collaboration area called &amp;quot; is created, it will be displayed in the Collaboration Area console as " .</p> <p>If an attribute collection called &amp;quot; is created, it will be displayed in the Attribute Collections console as " .</p> <p>If a lookup table is associated with a spec called &amp;quot;, it will be displayed in the Lookup Table console as " .</p> <p>In the Catalog Console:-</p> <ul style="list-style-type: none"> <li>If a catalog is associated with a spec called &amp;quot;, it will be displayed as "</li> <li>If the primary hierarchy for a catalog is called &amp;quot;, it will be displayed as " .</li> <li>If a secondary hierarchy for a catalog is called &amp;quot;, it will be displayed as " .</li> <li>If a catalog is assigned to an Access Control Group (ACG) called &amp;quot;, it will be displayed as " .</li> </ul> <p>In the job console, if a report called &amp;quot; is scheduled, it appears as Report " .</p> <p>When creating a Hierarchy Mapping, if a hierarchy contains a category called &amp;quot;, it will be displayed as " . Also, if the hierarchy itself is called &amp;quot;, it will be displayed as " in the tree.</p> <p>If an item or category has a value of &amp;quot; for one of its attributes, this will be displayed in the Multi-Edit page as " when the cell is not selected for editing. However, it will appear correctly if the cell is selected for editing.</p> <p>On WPC implementations using WebSphere Application Server (WAS), if you open a file with a semicolon (;) in the name from the Document Store, a WAS index out of bounds error page appears instead of the document. A workaround would be to avoid using semicolons in filenames.</p>

	<p>If the Parent path of a category contains a category called &amp;quot; (including a hierarchy name), this will be displayed in the Single Edit page as " .</p> <p>If the return value of a Scheduler job contains a reference to an entity called &amp;quot;, this will be displayed as " .</p>
--	--

## 4. Requirements

This section includes several requirements that you must have before you apply WPC Version 5.3.2, Interim Fix 7.

### 4.1 Prerequisites

WebSphere Product Center 5.3.2 or any WPC 5.3.2 Fix pack must be installed before you apply WPC Version 5.3.2, Interim Fix 7.

If you are upgrading from a maintenance release between WPC Version 5.3.2 and WPC Version 5.3.2, Interim Fix 7, ensure that you applied all configuration changes (for example, common.properties updates and schema changes) as stated the Requirements section (this section) of the release notes.

### 4.2 Database schema modifications

**Prerequisite: Make sure to create a backup copy of your database before proceeding with the steps in this section. This is needed in order to have a version of the database to revert to in case of any problems.**

Depending on the version of WPC that is currently in use you may have to run one or more SQL scripts to modify the database schema. These need to be run from the command prompt of the database from which SQL can be run.

There are seven migration steps. The following table indicates which steps need to be run when migrating from a specific version.

From WPC Version	Required schema change steps
5.3.2-FP007	None
5.3.2-FP006	1,5,6,7
5.3.2-FP005	1,5,6,7
5.3.2-FP004	1,5,6,7
5.3.2-IF006	1,5,6,7
5.3.2-IF005	1,5,6,7
5.3.2-IF004	1,5,6,7
5.3.2-IF003	1,5,6,7
5.3.2-FP003	1,5,6,7
5.3.2-FP002	1,5,6,7
5.3.2-FP001	1,4,5,6,7
5.3.2-IF002	1,3,4,5,6,7
5.3.2-IF001	1,3,4,5,6,7
Versions earlier to 5.3.2	1,2,3,4,5,6,7

- Step 1 should be run from the current (the version you are trying to upgrade by installing this Interim Fix) WPC version
- Steps 2 to 6 should be run after stopping the server and applying 5.3.2-IF007. (\$TOP pointed to 5.3.2-IF007 version).

- Step 7 to be run after bringing the instance after installation 5.3.2-IF007 is complete

## 1. Export ACG roles.

Steps in this section are required for all migrations

1.1 Login to the current (the version before applying this fixpack) WPC instance

1.2 From the script sandbox, run the WPC script:

<http://ftp.software.ibm.com/software/websphere/wpc/fixpacks/5.3.2-FP006/exportACGRolesScript.txt>

This script will create the file archives/Export.zip in the document store.

If your environment has more than one company, steps 1.1 and 1.2 above need to be performed for each of the companies after logging into each company. The exported file needs to be renamed each time so that it is not overwritten. As an example

- Log in to a company (for e.g:Company1)
- Perform Step 1.2 above
- Rename the file created under archives directory to Export-Company1.zip
- Logout
- Repeat the above steps for each of the company, renaming the file each time to avoid overwriting.

Stop WPC server

## 2. Schema modifications made in 5.3.2 Base Version

This step is required only if you are migrating from a WPC Version earlier than 5.3.2 (for example, 5.3 or 5.3.1). If you were able to migrate without exporting and importing data, then run the Index Regeneration Capability utility to facilitate the correct operation of an additional rich search option.

The Index Regeneration Capability is provided by a shell script named indexRegenerator.sh and is located in the \$TOP/bin directory. The shell script has the following usage:

For catalogs in a company:

**--catalog=** <<catalog name>> **--company=** <<company name>>

For hierarchies in a company:

**--hierarchy=** <<hierarchy name>> **--company=** <<company name>>

For items in a company:

**--items=** <<full path of the CSV file>> **--company=** <<company name>> [**--encoding=** <<encoding>>]

\$TOP/bin/indexRegenerator.sh

Usage:

**--catalog=** <<catalog name>> **--company=** <<company name>>

**--hierarchy=** <<hierarchy name>> **--company=** <<company name>>

**--items=** <<full path of the CSV file>> **--company=** <<company name>> [**--encoding=** <<encoding>>]

Parameters containing spaces and special characters must be enclosed in escaped quotes (\"). Also, special characters should be escaped with the use of a back slash (\).

Both the Index Regeneration Capability and the Rich Search for Co-Occurrence of Multi-Occurrence Value facilities are described in the WPC Information Center in the Release notes under New Features at [http://publib.boulder.ibm.com/infocenter/wpc/v5r3m2/topic/com.ibm.wpc.doc/rn/rn\\_2.0.html](http://publib.boulder.ibm.com/infocenter/wpc/v5r3m2/topic/com.ibm.wpc.doc/rn/rn_2.0.html).

## 3. Schema modifications made in 5.3.2-FP001.

Complete the steps in this section if you are migrating from a version earlier than 5.3.2-FP001

(a) Upgrade the schema by running the following SQL commands:

For Oracle:

[ftp://ftp.software.ibm.com/software/websphere/wpc/fixpacks/5.3.2-FP001/add\\_date\\_column-oracle.sql](ftp://ftp.software.ibm.com/software/websphere/wpc/fixpacks/5.3.2-FP001/add_date_column-oracle.sql)

For DB2:

[ftp://ftp.software.ibm.com/software/websphere/wpc/fixpacks/5.3.2-FP001/add\\_date\\_column-db2.sql](ftp://ftp.software.ibm.com/software/websphere/wpc/fixpacks/5.3.2-FP001/add_date_column-db2.sql)

The above sql adds one column each to the PPI, PST, PSD, and PDR table.

(b) For Oracle databases run the following SQL commands to upgrade the schema:

[ftp://ftp.software.ibm.com/software/websphere/wpc/fixpacks/5.3.2-FP001/alter\\_occurrence\\_id-oracle.sql](ftp://ftp.software.ibm.com/software/websphere/wpc/fixpacks/5.3.2-FP001/alter_occurrence_id-oracle.sql)

Occurrence\_id columns in the ITA (tctg\_ita\_item\_attributes) and CAB (tctg\_cab\_category\_attributes) tables should cater for 10 decimal digits.

4. Complete the steps in this section if you are migrating from a version earlier than 5.3.2-FP002. Please refer to the table above to see the versions for which this step is needed in the migration. Schema modifications made in 5.3.2-FP002

For Oracle:

[ftp://ftp.software.ibm.com/software/websphere/wpc/fixpacks/5.3.2-FP002/update\\_seq\\_table-oracle.sql](ftp://ftp.software.ibm.com/software/websphere/wpc/fixpacks/5.3.2-FP002/update_seq_table-oracle.sql)

For DB2:

[ftp://ftp.software.ibm.com/software/websphere/wpc/fixpacks/5.3.2-FP002/update\\_seq\\_table-db2.sql](ftp://ftp.software.ibm.com/software/websphere/wpc/fixpacks/5.3.2-FP002/update_seq_table-db2.sql)

5. Schema modifications made in 5.3.2-FP7

Run the SQL to recreate the OAC and OBT tables

For DB2 run:

[ftp://ftp.software.ibm.com/software/websphere/wpc/fixpacks/5.3.2-FP007/recreateOAC\\_OBT\\_DB2.sql](ftp://ftp.software.ibm.com/software/websphere/wpc/fixpacks/5.3.2-FP007/recreateOAC_OBT_DB2.sql)

For Oracle run:

[ftp://ftp.software.ibm.com/software/websphere/wpc/fixpacks/5.3.2-FP007/recreateOAC\\_OBT\\_Oracle.sql](ftp://ftp.software.ibm.com/software/websphere/wpc/fixpacks/5.3.2-FP007/recreateOAC_OBT_Oracle.sql)

6. Schema modifications made in 5.3.2-FP006  
Steps in this section are required for all migrations  
Upgrade the schema by running the following SQL commands:

For Oracle:

```
alter table tutl_lck_lock drop constraint lck_0_uk;
```

```
drop index lck_0_uk;
```

```
drop index iutl_lck_0;
```

```
create UNIQUE index iutl_lck_0
```

```
on tutl_lck_lock (  
    lck_jvm_id,  
    lck_thread_id,  
    lck_type,  
    lck_object_id,  
    lck_object_type  
)
```

```
    tablespace indx  
    nologging;
```

```
create index iutl_lck_2
```

```

on tutl_lck_lock (
lck_object_id,
lck_object_type
)
tablespace indx
nologging;

```

If you are using Oracle 9i, the second statement above "drop index lck\_0\_uk" will fail indicating the index does not exist. Please ignore the message.

All the above sqls will run successfully in Oracle 10g or later versions.

Verify that the index creation was successful by running the following SQL

```

select index_name, column_name, column_position from all_ind_columns where table_name=
'TUTL_LCK_LOCK' order by 1, 3;

```

When the index creation is successful the result will be as follows

INDEX_NAME	COLUMN_NAME	COLUMN_POSITION
IUTL_LCK_0	LCK_JVM_ID	1
IUTL_LCK_0	LCK_THREAD_ID	2
IUTL_LCK_0	LCK_TYPE	3
IUTL_LCK_0	LCK_OBJECT_ID	4
IUTL_LCK_0	LCK_OBJECT_TYPE	5
IUTL_LCK_1	LCK_TX_ID	1
IUTL_LCK_2	LCK_OBJECT_ID	1
IUTL_LCK_2	LCK_OBJECT_TYPE	2

For DB2:

\$TOP/src/db/schema/dbscripts/db2/tutl\_lck\_lock\_indexes.sql

Please use the following steps

1. Connect to DB2 using the following command

```
db2 connect to <dbname> user <dbuser> using <dbpassword>
```

You can get the <dbname>, <dbuser> and <dbpassword> information from \$TOP/etc/default/common.properties file

2. Execute the index creation SQLs in \$TOP/src/db/schema/dbscripts/db2/tutl\_lck\_lock\_indexes.sql file using the following command

```
db2 -tvf $TOP/src/db/schema/dbscripts/db2/tutl_lck_lock_indexes.sql |tee alter_lck.out
```

3. Verify that the index creation was successful by running the following command

```
db2 "select indname, colname, colseq from syscat.indexcoluse where indschema=
CURRENT SCHEMA and indname like '%LCK%'order by indname, colseq"
```

When the index creation is successful the result will be as follows

INDNAME	COLNAME	COLSEQ
IUTL_LCK_0	LCK_OBJECT_ID	1
IUTL_LCK_0	LCK_OBJECT_TYPE	2
IUTL_LCK_1	LCK_TX_ID	1
LCK_0_UK	LCK_JVM_ID	1
LCK_0_UK	LCK_THREAD_ID	2

LCK_0_UK	LCK_TYPE	3
LCK_0_UK	LCK_OBJECT_ID	4
LCK_0_UK	LCK_OBJECT_TYPE	5

This removes duplication of `jvm_id`, `thread_id` in indexes which are large columns, without reducing the LCK indexes.

7. This step should only be completed after the entire fixpack installation is successful and the required schema migration steps are complete.
  - a. Bring up the instance. Click on System Administrator -> Import Environment to import the Export.zip file created in the steps above.
  - b. If you have multiple companies in your environment each of the files created in Step 1 Export Access Control Group (ACG) roles need to be imported  
As an example
    - i. Log in to a company (for e.g:Company1)
    - ii. Import the corresponding export file Export-Company1.zip created for this company.
    - iii. Go to Collaboration Manager --> Document Store --> archives. Click on the Export.zip file and download it.
    - iv. Logout
    - v. Repeat the above steps for each of the companies in the environment

## 4.3 Property file changes

Review and verify that all configuration files are updated appropriately.

Refer to the backup copy of the configuration files for the previous installation if needed.

The configuration files that WPC uses are:

- `Common.properties`: During system startup, this file is used to read in all system level parameters. This file includes settings for the database layer (connection parameters), directory settings, default character sets, thread-pooling parameters, and other settings, which are documented in the file. File location: `$TOP/etc/default`.
- `Admin_properties.xml`: This file is used by the administrative utilities to configure clusters of the application. File location: `$TOP/etc/default`
- `Init_ccd_vars.sh`: The initialization file is the shell script that initializes the shell variables used by the system. File location: `$TOP/setup`.

### 4.3.1 Changes to common.properties file

Modify the `common.properties` file to ensure that you can successfully use some of the features provided in this maintenance release.

1. Remove the following property from `common.properties` file:

```
max_number_items_for_realtime_search=1000
```

2. Modify the following property in the `common.properties` file by changing

```
max_script_cache_timeout=60 to max_script_cache_timeout_in_seconds=60
```

3. Add the following properties and their values by copying and pasting the entire section below at the end of the WPC `common.properties` file:



Remove the following description for property "category\_item\_count\_disabled":  
# This count shows up in different pages of the UI such as left navigation, basic selection, link attribute  
# popup, and so on. Set to false to enable this count feature.

Add below description for the property instead:

# With this property enabled the categories would not be expandable to show child items. However search  
# and rich search will still work. This count shows up in different pages of the UI such as left nav,  
# basic selection, link attribute popup, and so on. Set to false to enable this count feature.

# This property decides whether the Web Services would be session enabled or not. A true  
# value will enable sessions for Web Services. A Web Service needs to be saved after changing  
# the value of this property.  
enable\_webservice\_session=true

# This property decides the session timeout period for the Web Services session. The value is in seconds.  
webservice\_session\_timeout=300

# The following are needed for MQ version 6.They can be overridden by specifying a username and  
password #when calling the jmsGetQueueConnection script operation  
mq\_username=  
mq\_password=

# Key combination to trigger shortcuts. If more than one is set to true, then all set to true will be  
# needed to trigger the shortcut. Default is CTRL-ALT, but if languages that use ALT GR for some  
characters, such as Polish, are in use then we advise that this #should be changed, e.g. to CTRL-SHIFT or  
ALT-SHIFT, since in Microsoft Windows, CTRL-ALT and ALT GR always have the same functionality (except  
#when used with DEL).We strongly advise against setting all of CTRL, ALT and SHIFT to false, since this  
would cause shortcuts to be triggered by normal #typing! It is recommended that at least two of these be  
set to true.  
use\_ctrl\_in\_shortcuts=true  
use\_alt\_in\_shortcuts=true  
use\_shift\_in\_shortcuts=false

# The width of the popup window for Lookup table entry input widget. This will be set to  
# default value which is 800 pixels if the width is either too high (greater than 1680)  
# or too low (less than 800). The allowed value can be any integer between 800 and 1680.  
lookup\_table\_entry\_input\_popup\_width=900

# The height of the popup window for Lookup table entry input widget. The allowed value  
# can be any integer between 400 to 1050. This will be set to default value which is 400  
# pixels if the height is either too high (greater than 1050) or too low (less than 400).  
lookup\_table\_entry\_input\_popup\_height=500

# Can multiple ctg files (for image/binary attributes) exist with the same name?  
# If false, will store files in ctg\_files within the supplier base  
# If true, will store files in subdirectories within ctg\_files with timestamps for names  
allow\_multiple\_files\_with\_same\_name=false

# Spec Cache flushing  
# =====  
# The standard behavior when saving a spec is to flush the entire spec cache. For installations  
# with a large number of pre-cached specs, this can cause a reduction in system performance.  
# Setting the the parameter below to true will prevent the cache being flushed.  
inhibit\_spec\_cache\_flush\_on\_save=false

# Can users modify their own usernames via the My Profile page? Default value is true.  
# If set to false, then Administrators and users whose roles allow them to modify other users  
# will be able to modify their own usernames anyway.

```
allow_users_to_modify_own_username=true

# Controls if the entry edit page is refreshed after an entry preview popup is closed
# true = will refresh entry edit page when the popup is closed
# false = do not refresh entry edit page
entrypreview_refresh_entries_post_run=false
```

## 5. Installing this fix pack

This section provides general guidelines to apply this fix pack to WebSphere Product Center. Some information might differ depending on the methods that you used for previous installations. Contact your support representative for WebSphere Product Center with any installation issues.

### 5.1 Preparing to install this fix pack

Before attempting to apply the latest fix pack to WebSphere Product Center, the following preparation is recommended:

#### 5.1.1 Stopping the WPC application on the local server

Complete the following steps to stop the WebSphere Product Center instance:

- a) Check the scheduler to make sure that there are no critical jobs that need to be completed.

If the queue is clear, stop the scheduler manually by running the following script:

```
$TOP/bin/go/stop/stop_scheduler.sh
```

- b) Check the workflow engine to make sure there are no critical workflow events in process that need to be completed by running the following script:

```
$TOP/bin/go/workflow_status.sh
```

If the queue is clear, shut down the workflow engine manually by running the following script:

```
$TOP/bin/go/stop/stop_workflowengine.sh
```

- c) For all applications deployed on a cluster environment, the script binding the appservernames parameter can be used to abort specified application servers.

```
$TOP/bin/go/abort_local.sh --appservernames= a comma-separated list of names for the Application Servers.
```

For example, if the abort\_local.sh script is invoked on a host called wpcserver, and the defined value of WAS\_APPSERVERNAME is wpc\_server, and if the following shell command is executed in WAS:

```
$TOP/bin/websphere/install_war.sh --svc_name=appsvr1_WPCSERVER --appservername=wpc_server1 --conf_appsvr_port=9188
```

```
$TOP/bin/websphere/install_war.sh --svc_name=appsvr2_WPCSERVER --  
appservername=wpc_server2 --conf_appsvr_port=9388
```

Then, execute:

```
$TOP/bin/go/abort_local.sh --appservernames=wpc_server1,wpc_server2
```

It will abort an application server named wpc\_server1, with rmi name appsvr1\_WPCSERVER and an application server named wpc\_server2, with rmi name appsvr2\_WPCSERVER.

This does not affect the admin service, event processor, queue manager, scheduler or workflow engine, which will continue to be called admin\_WPCSERVER, etc.

If appservernames is not specified, then the system will continue to abort a single application server, using the parameter `${WAS_APPSERVERNAME}` specified in `init_ccd_vars.sh`.

- d) Check to make sure that all processes have stopped using the 'ps' command.

Stop any rogue "java" or "rmiregistry" processes that remain after shutting down the instance. Occasionally, it might take several attempts to stop all Java processes. Continue stopping all java processes until they are all stopped.

## 5.1.2 Backing up your system

Perform the following backup steps before applying this fix pack:

- a) Create a full backup of the current Web Sphere Product Center directories.  
The fix pack will overwrite files that have changed. If any issues occur when installing this fix pack, this backup will allow you to rollback to a previous version.
- b) Perform a full backup of the database.

**Recommendation:** Apply the fix pack to a test system to identify any issues before applying it to a production system.

Do not delete the previous version of WebSphere Product Center until you perform thorough testing with the new installation.

## 5.2 Applying the fix pack

To apply this fix pack, you must perform the following steps:

1. Unpack the tar file.
2. Run the application server script.
3. Run the `analyze_schema.sh` script.

These steps are explained in the following sections below.

### 5.2.1 Unpacking the tar file

To extract and update any new installation files into the current working directory perform the following steps:

1. Copy the WebSphere Product Center tar file to the user or temporary directory.

For example: {HOME\_OF\_WPC}/tarballs

2. Change the directory to \$TOP (or the current working directory) and make sure that right permissions exist for unpacking the tar file, by running the following commands

```
cd $TOP
```

```
chmod -R 755 $TOP
```

3. Change the directory to \$TOP (or the current working directory), and unpack the tar file:

For example, with GNU tar, the following command extracts and unzips the tar file by using an absolute path:

```
tar zxvf $TOP/5.3.2-WS-WPC-WS6_ORA-FP003-08_update_from_5320-53.tgz
```

**Tip:** Use GNU tar to untar the WebSphere Product Center files.

## 5.2.2 Running the application server script

The application server script, `install_war.sh`, installs WPC into the WAS server.

**Prerequisite:** Ensure that the default WebSphere Application Server (server1) is installed, running, and that you can log into it. For more information about the default WebSphere Application Server, see the *WebSphere Administration Guide*.

**Procedure:** To run the application server script, from the command line run the following:

```
$TOP/bin/websphere/install_war.sh --appservername=#1 --svc_name=#2 --conf_appsvr_port=#3
```

#1. `--appservername=` for the App Server name (defaults to `$WAS_APPSERVERNAME` set in `init_ccd_vars.sh`)

#2. `--svc_name=` for the RMI Service name (defaults to `appsvr_HOSTNAME`), usage is `--svc_name=appsvr<n>_HOSTNAME`.

#3. `--conf_appsvr_port=` for the port on which the App Server will listen (defaults to the `appsvr_port` setting in `common.properties`)

These parameters are all optional, if not specified the previous behavior will be exhibited.

## 5.2.3 Running the `analyze_schema.sh` script

The optimizer uses the catalog tables from a database to obtain information about the database, the amount of data in it, and other characteristics. It then uses this information

to choose the best way to access the data. If current statistics are not available, the optimizer might choose an inefficient access plan based on inaccurate default statistics.

Therefore, you should use the `analyze_schema.sh` script to collect current statistics on tables and indexes, especially if significant update activity has occurred since the last time the `analyze_schema.sh` was executed. This script provides the optimizer with the most accurate information with which to determine the best access plan. On WPC databases, you should run the `analyze_schema` at least once a week.

**To run analyze schema in DB2**, refer to the WPC TechNote: Analyzing schema and collecting statistics in DB2 located at:

<http://www-1.ibm.com/support/docview.wss?uid=swg21205939>

**To run analyze schema in Oracle**, refer to the WPC TechNote: Analyzing WebSphere Product Center schema and collecting statistics in Oracle located at:

<http://www-1.ibm.com/support/docview.wss?uid=swg21206376>

**Recommended:** Run the `analyze_schema.sh` script once a week or when there is a twenty percent or more increase or change of data in the database.

## 5.3 Verifying the installation

### 5.3.1 Starting WebSphere Product Center

To start WebSphere Product Center after you have run the script, `install_war.sh`, for WAS platform, run:

```
$TOP/bin/go/start_local.sh --redeploy=yes
```

This script starts all the services that you need to run WebSphere Product Center. The parameter, `--redeploy=yes`, ensures that all Web Services are re-deployed properly.

Note: For WebLogic, you do not need to add the `--redeploy=yes` parameter.

The `start_local.sh` shell script also supports starting multiple application servers from an individual WebSphere Product Center instance.

For all applications deployed on a cluster environment, the script binding with the `appservernames` parameter can be used to start specified application servers

`$TOP/bin/go/start_local.sh --appservernames=` a comma-separated list of names for the Application Servers.

For example, if the `start_local.sh` script is invoked on a host called `wpcserver`, whose defined value of `WAS_APPSERVERNAME` is `wpc_server`, as:  
if the following shell command had been executed in WAS.

```
$TOP/bin/websphere/install_war.sh --svc_name=appsvr1_WPCSERVER --  
appservername=wpc_server1 --conf_appsvr_port=9188
```

```
$TOP/bin/websphere/install_war.sh --svc_name=appsvr2_WPCSERVER --  
appservername=wpc_server2 --conf_appsvr_port=9388
```

then execute:

```
$TOP/bin/go/start_local.sh --appservernames=wpc_server1,wpc_server2
```

It will then start an application server named `wpc_server1`, with rmi name `appsvr1_WPCSERVER` and an application server named `wpc_server2`, with rmi name `appsvr2_WPCSERVER`. This does not affect the admin service, event processor, queue manager, scheduler or workflow engine, which will continue to be called `admin_WPCSERVER`, etc.

If `appservernames` is not specified, then the system will continue to start a single application server, using the parameter `${WAS_APPSERVERNAME}` specified in `init_ccd_vars.sh`.

This process should take approximately 30-40 seconds, depending on the speed of the processor.

### 5.3.2 Starting the WPC Services

Run the `$TOP/bin/go/rmi_status.sh` script and verify that the following services have started correctly.

- `admin_<machine name>`
- `appsvr_<machine name>`
- `appsvr<n>_<machine name>`
- `eventprocessor_<machine name>`
- `queuemanager_<machine name>`
- `scheduler_<machine name>`
- `workflow_<machine name>`

### 5.3.3 Verifying the installation

You can verify the WPC installation by checking the installed version of WPC with one of the following methods:

1. Run the `get_ccd_version.sh` script located in the `$TOP/bin` directory. For example:

```
$TOP/bin> ./get_ccd_version.sh
```

```
5.3.2-IF07#2
```

2. Confirm the WPC installation through the WPC user interface. Go to **Help -> About Current PageID**.

**Note:** You should verify your WPC installation whenever you upgrade or refresh an existing installation.

### 5.3.4 Complete migration

Bring up the WPC instance. Complete the instructions in Step 7 of section [4.2 Database Schema Modifications](#).

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