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WebSphere Product Center Release Notes for *Fix Pack 5.2.1 FP006* 

#### Note!

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

19 June 2007

This edition of this document applies to WebSphere Product Version, Version 5.2.1 FP006, and to all subsequent releases and modifications until otherwise indicated in new editions.

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### 1. Overview

This document addresses product fixes, installation and migration instructions, and other updated information for WebSphere Product Center Fix Pack 5.2.1 FP006 requirements.

### 1.1 Fix pack

Product Center 5.2.1 must be installed prior to the application of Fix Pack 5.2.1 FP006. If you are migrating from a maintenance release between version 5.2.1 and 5.2.1 FP006, ensure that you have applied all configuration changes (for example, common.properties updates and schema changes) as stated in the documentation provided with each maintenance release.

## 2. Product fixes in the current fix pack

This section describes the fixes in the current fix pack.

Tracking	APAR	PMR	Description
number			
WPC00031949	JR26688	86272	<ul> <li>Abstract: Realtime Search does not work when the display attribute is changed from one that is defined as a string to one that is defined as an integer.</li> <li>Problem: Initially if the display attribute for a Catalog is set as String attribute and then changed to Integer attribute at later stage, then while searching the items for a display attribute using realtime search from left pane, no results are retrieved.</li> <li>Cause: Integer type was not correctly converted to String to compare with the value.</li> <li>Solution: Conversion of the numeric to String is fixed.</li> <li>Impact to customer: No changes to the customer implementation are required.</li> </ul>
WPC00031955	JR26715	31749	Abstract: Memory leak in mount manager causing APPSVR service running out of memory. Problem: When MountManager is enabled by setting the common.properties parameter to "enable_mountmgr=true", then the memory usage observed in the memory.log increasing continuously without user activity and reaches the upper limit of the appsvr memory specified in init_ccd_vars.sh. This Out Of Memory condition is characterised by generation of java core files, heapdump, and WPC not responding till the server is restarted. Solution: A code fix for this problem is available in the current fix pack. Impact to customer: No changes to the customer implementation are required.
WPC00031895	JR25928	36633	<ul> <li>Abstract: CGTL - DataExportToCommerce skips Merch Assoc entries</li> <li>Problem: The Report to transfer data from WPC to WCS may skip some merchandising association records.</li> <li>Cause: This occurs when a product has multiple "Product" type merchandising associations, which contain multiple SKUs, creating a loop counter which may be reinitialized incorrectly. Therefore it may fail to export some of the associations.</li> <li>Solution: A code fix for this problem is available in the current fix pack. Impact to customer: No changes to the customer implementation are required.</li> </ul>
WPC00031907	JR26027	39691	Abstract: Cannot use commas in defining attribute Enum values. Problem: Do not use a comma character in the def_attributes/enum_values of a product in WCCatentrycatalog. This limitation exists because the WPC-WCS integration kit scripts use a comma as the default delimiter to separate the defining attributes. Solution: To solve this issue, key WC1_Delimiter is added to the WCConfigLKPTbl and the delimiter is made customizable. Impact to customer: WC1_Delimiter key should be assigned a character which will not be present in the defining attribute values

# 3. Product fix history

### 3.1 Fixes for 5.2.1.5

Tracking number	Description
JR24308	<b>Issue</b> : In a post save script, the customer is trying to update another archive
	catalog based on the save result. If the value returned is ADDED or
	MODIFIED, the script is able to update the archive catalog. For DELETED the
	script does not update the archive catalog.
	Solution: A new item can be created in another catalog from the post save
	script even if a deletion is performed on the main catalog item.
JR24690	Issue: Slow performance of rich search: When single or multiple attributes are
	searched using Rich Search, the results retrieval was slow.
	<b>Cause</b> : When single or multiple attributes were searched using Rich Search,
	results retrieval was very slow. <b>Solution</b> : A fix was implemented to take care of the single attribute case by
	removing redundant joins in the query. The case of multiple attribute searches
	has not been addressed by this fix since this has been already fixed in higher
	code version via the new search implementation.
	Impact: Single attribute searches will be faster, while multiple attribute
	searches will remain slow.
JR24827	<b>Issue</b> : The item search link for a relationship type attribute was not working.
	Clicking on the search result link in the popup was not populating the
	attribute field.
	<b>Solution</b> : This issue was resolved by the escaping of single/double quotes in the code.
	code.
JR25164	Issue: When the customer FTP server is hosted on a third party server, it was
	found the sendFTP and getFTP operations do not work in a WPC 5.2.1
	installation.
	Solution: Replaced FTPProtocol_2.01p.jar with FTPProtocol_2.01q.jar.
JR25190	Issue: The use of the WebSphere Portal Server Mass Edit Portlet in order to
	remove values from attributes does not work. <b>Solution</b> : The setting of empty values for date and text attributes using the
	WPS mass edit portlet is enabled.
JR25113	Issue: Workflow performance: implement workflow code changes to gain
-	increase in workflow performance.
	Cause: Getting the workflow step name from the step id is done repeatedly by
	accessing the database.
	Solution: Workflow step IDs to step names are cached the first time the steps
	are accessed, therefore reducing the need to access the database.
IP2511/	Issue: Alter session changes are annlied for an Oracle session every time a
JR25114	<b>Issue</b> : Alter session changes are applied for an Oracle session every time a connection is received from DbConnectionBroker.
	Solution: To improve workflow performance, the alter session changes were
	removed from the WPC code into the Oracle configuration file ora.ini. This
	was also a required change to comply with National Language Support.
JR25206	Issue: Pop-up screen for "macro" won't close automatically after upgrading to
	WPC v5.2.1.3. This issue could not be reproduced
	Solution: This issue was not reproducible.
IDOFOOR	Januar Dischlo "Ctoro Dogugoto / Ctoro Doglico" for Mich convision hu defeut
JR25226	Issue: Disable "Store Requests / Store Replies" for Web services by default.

	<b>Cause</b> : When "Store Requests" and "Store Replies" for a web service are enabled, WPC creates many DB loads by writing to the DAD table. Solution: By default the Store Requests & Store Responses options are enabled in the web service that comes with portal tool kit. The end user need to turn this off, if it is not required.
JR24742	Issue: Problem in Commerce Integration kit with Merchandising Associations has been fixed. Solution: This issue was not reproducible in this Fix Pack.
JR25360	Issue: The saveUser script operation still truncates the user name after 20 characters. Cause: The size used in saveUser script-operation was limited to 20. Solution: The size in the saveUser script operation has been increased to 400.
JR25449	Issue: Bad exception handling is causing empty Soap envelopes. Solution: Handled exception so that AxisFault is returned instead of an empty SOAP response.
JR25580	<ul> <li>Issue: Finalizer methods in EntryNode and AttrValue are causing Out of Memory errors.</li> <li>Cause: Finalized methods make the garbage collector postpone the cleanup of the unused objects and hence the memory accumulation on a multiple processor machine which runs out of memory.</li> <li>Solution: The finalize methods in the classes EntryNode and AttrValue were removed.</li> </ul>
65368	Issue: Static AustinContext was being used for webservice call. Solution: Code is modified to use AustinContext per session. This change resolved the issue.
JR25700	<b>Issue</b> : A change in lookup table image display mode affects usability. <b>Solution</b> : The image display behavior was reverted to what was used in version 5.2.1.3.
JR25779	<ul> <li>Issue: Out of the workflow step, an XML Message is generated and put on a queue using JMS. This is no longer working and is causing a classpath not found exception.</li> <li>Solution: The fix was to roll back the version 6.0 of com.im.mq.jar and com.ibm.mqjms.jar to the supported version 5.3.</li> </ul>
31459	<ul> <li>Issue: Script operation issue in assigning secondary spec to category node Solution: A change of behavior has been defined for both script parsing and caching layer.</li> <li>1) Any syntax error in any kind of scripts (validation error defined in spec nodes, trigger scripts etc), will result in exceptions.</li> <li>2) Any call to getScriptByPath("<path>") referring non-existence script will result in exceptions.</path></li> <li>For Example: var scriptLib = getScriptByPath("wrongpath"); Executing the above script snippet in the script sandbox will result in an exception as output, even though the script object was not referred to in the script</li> </ul>

### 3.2 Fixes for 5.2.1.4

Tracking number	Description
JR23487	Cannot read boolean cells from Excel sheets. WPC was throwing exception while
	retrieving value of particular cell having boolean (TRUE/FALSE) value. Now one
JR23561	can use getStringCellValue() script operation to read boolean value as well.
	Widget error occurs when clicking Edit-All in the search results when usingexact_date
JR23563	as the search criteria for a date type attribute.
	WC.utility.Lib.wpcs cannot handle 10+ occurrences. This script works on the
	multi-occurrence attributes in the WPC-WCS Commerce Integration Script. There
	was hard coding that forced the kit to break if there were more than 10
	occurrences of a defining / descriptive attribute.
	Removing the hard code and computing the occurrence ID based on the last
	occurrence of # resolved the issue. The Commerce Integration kit is now capable
	of handling as many multi-occurrences there are in WPC.
JR23968	Entering date and Saving it manually in date field when accessed from the reports
	console gives a javascript error.
JR23988	In the Rich Search Page, clicking the Edit icon of lookup table type "attribute" with
	an image value will show the entire attribute image. This causes usability issues if
	there are a large number of lookup table entries. It has been fixed by displaying a
	thumbnail image instead and clicking on the thumbnail will show the actual
	image.
JR24060	Passing an empty String as search query to an AdvancedSelection causes DB
	Exception deleteEntryNode() generates error results on import.
JR24075	
JR24134	WebSphere Commerce Delta Export produces unnecessary data.
	In the Commerce Integration, the category tree information for the master catalog
JR24247	gets emitted for each of the updated item. So even for a delta export that consists
	of few updated items the category information gets emitted multiple times and
JR24257	hence the size of the generated XML increases.
	This issue has been addressed by having the category information emitted only
	once per delta feed, thereby minimizing the size of the XML file.
	JR24247
	Customized fields are not translated properly in the generate XML. During
	Commerce Integration, the export script does not emit some of the customizable
	fields. To address this issue, a fix involved adding the customizable fields to the
	specs and emitting them in the XML.
1001015	JR24257 WPC-WCS eCommerce integration kit fails to import, throwing an exception
JR24345	In Commerce Integration, there is an incompatibility between WCS target field
	type ("available" of type integer) and source field type ("availabilitydate" of type
	date, WCCatentryPSpec). The fix involved Adding availabilitydate in the UI and
JR24455	emitting its value. Emitted static value "1" as value for attribute available.
JN24400	If the user deletes a "listprice" or "offerprice" occurrence from a CatEntry in
JR24507	WPC, this change is not propagated to Commerce. For example, no "delete XML" is generated for this change. Mass edit not working for text attributes having a
JIN24307	comma. This is a portal integration issue with no impact on core WPC function.
JR24596	Quotation mark in WPS wrong escaped in WPC.
01124030	Quotation mark in wro wiony escaped in Wro.
JR24623	When using a read-only view, a browse icon for the related item is not shown.
JR24624	Lookup Cache is not correctly used, causing an unneeded load on the
	database
JR24625	ThinPoolDBManager class has an extra wait() outside the sync block, that can
	lead to 'IllegalMonitorException' when connections in the pool are exhausted.
	This fix is transparent to the users. If the issue is present, the system may fail to
	obtain database connections for 'BLOCKING' type of threads and may throw
	'IllegalMonitorException' under high user load conditions.

JR24853	remains open even after clicking on "Run" WPC-WPS integration kit requires automatic cleanup of docstore files and better location within the docstore
JR25110	
	Performance degradation after migration from Trigo 4.2 to WPC 5.2.1 IF004. New Index creation needed.
JR24700	It is not possible to add localized attributes to a specification mapping of the type "Catalog to Destination Spec" and save the changes. A localized attribute can temporarily add to the mapping but after a click on the save button the mapping is empty and the changes are not saved.
JR24756	Oracle version of WPC Patch for GDS does not support case insensitive search Could not copy/paste on Preview window.
JR24778	

### 3.3 Fixes for 5.2.1.3

Tracking number	Description
JR23493	NullPointerEx in for getItemSetForSelection
JR23311	5210 System Status Page does not work properly
JR22967	Single and double quote in PK failed in RT search
JR23164	Calendar picker errors in entry macro
JR23259	WPC JDBC Connection transaction error
JR22929	View error using adv selection in left nav pane
JR22523	Date range filter for user audit log does not work even when a date range has been specified.
JR23591	Merge step does not proceed
JR23633	521x - WPC Problem (reserveEntryInStep())
JR23637	5211 Attribute Collection cannot be reordered.
JR23698	Items in wfl move to Error state on engine shutdown
JR21786 / JR22433	5210 Uniqueness failed in Multioccurences
JR23840	getLoginString() not working
JR23869	Empty PK in entry content screen
JR23415	Locale values of localized attributes get lost when an attribute is checked out to a collaboration area.
23632	Requesting the email field in WPC be increased in length to 100 characters
28898	Relationship attribute values for Categories cannot be exported
24474	Caching item specification
24476	Hyperlink items in Browse Catalog Portlet, Multi-Item Edit Portlet, Advanced Search
	Portlet.
24475	Use of Attribute Collections
JR23861	Escaping quotation mark

### 3.4 Fixes for 5.2.1.2

Tracking number	Description
JR22764/22900	Report cannot be launched in WPC
JR22580/22901	Characters incorrectly exported
JR22543/20789	Cannot download files when binary attribute is no
JR22502/22960	Import export utility not working
JR22979/22648	Ampersand in workflow step name prevents save
JR22575/22639	lookup entries throw validation error
JR23163/22098	Scripts, enabling script_check_vars fails create_company script
JR22946/22973	UI, MultiEdit copy down button inaccessible
JR22963/22647	UI, right pane scrollbar obscuring operations row
JR23201/22411	Reserving an item twice causes errors
JR23213/22114	Adding new item will loose unsaved item info
JR23212/22192	Unique validation on MOA
JR23283/22962	Clicking external page will loose unsaved data
JR23373/21116	moveEntriesToColArea() not working
JR23306/22331	Oracle error during kit import
JR23330 /22472	NullPointerEx in ActivityLogger.wpcs
JR23352/22429	Loader commands to return completion status
JR23332/22362	WPC WCS kit performance
22904	throwError script opertation does not throw message
JR23554	Character validation in numeric attribute
JR23512	Multi-Edit item retrieval must use "EQUALS" instead of "CONTAINS" search criteria
	to make the changes possible
JR23648	Trying to modify attributes of type integer within the mass update portlet with a null
	value (entering no value), will cause WPS sending a default value of "-
	2147483648" to WPC.
JR23649	By using the WPS mass edit portlet, when saving alphabetical value in a mono
	occurrence numerical fields with WPC 5.2.1.1 F004, there is no error message and
	WPC save a value coming from nowhere :"-2147483648"

### 3.5 Fixes for 5.2.1 IF004

Tracking number	Description
JR23099/21665	WPC lookup table value can't be seen if read only.
JR23089/21593	Exit value not recognized in OUT script
JR23086/21935	Excel parser does not correctly parse numbers entered as text
JR23045/21594	Modifying and saving an entry before checkout in a script gives entry lock error on checking out.
JR23044/21477	When running the migration shell script, errors occur. Customer cannot login to after the script finishes with errors.
JR23017/21393	Performance of Hierarchy mapping popup window is slow for large hierarchies.
JR22939/22046	Attribute search is case sensitive in item edit.
JR22938/22044	Multi edit errors with tab views.
JR22935/21478	The "realtime search" box on organizations doesn't work.
JR22792/20959	Workflow engine is holding up sessions and using up memory.
JR22496/20086	Add to Dictionary adding whole sentence.
JR23191/22047	Lookup table value is lost when opening from the mulit-edit screen.
22078	Wrong context in member variables when event created.
21905	Setting a workflow step exit value in an IN script for an automated step is not recognized.
21826	Performance improvement in Multi Item edits Portlet.
20751	Can not view the files named with localized language letters.

### 3.6 Fixes for 5.2.1.1

Tracking number	Description
JR22520	Organization Deletion Causes Organization Hierarchy Data Corruption
19738	Issue when changing WSDL in portal - Unacceptable Character ">"
	throws Exception.
JR21767	Scripts - getCategorySet() returns set with wrong size
JR21520	Uniqueness validation fails for multi-occurring attributes
JR22566	WPC produces incorrect XML for Commerce integration
JR22571	Custom Tool Does Not Render As Home Page
JR21932	WebServices: request fails validation when using xsd namespace
JR22020	Fetching an external url when invoking a web service not work
JR22209	Hierarchy pre processing script and the post processing script
JR21740	Running delta syndications causes 'Unexpected Version" in syn
JR21996	Realtime search fails when the search count is more than 100 (To be
	done by 5.2.0-IF006
	integration)
JR21985	isStringSingleByte() script operation returns true for a string
JR22517	Can not view the files named with localized language letters
JR21996	Realtime search fails when the search count is more than 100

## 4. Issues and limitations

This maintenance release contains the following known issues (which will be addressed in a future maintenance release):

Tracking	Description
Number	
21243	Edit page didn't appear after clicking on "Reserve & Edit" button in workflow. Note:Work around is provided in the Portal Enablement Installation Guide Provided with this release.
21267	Rendering of lookup table window fails if the selected option from the select contains the special character "#". There can be other situations where the rendering of the lookup table picker window may fail. However, this occurs only under rare circumstances. It is advisable to avoid using # in the lookup table key string.
21139	DB2 query size problem. If running large queries that return no records, it is necessary to adjust the STMTHEAP size for DB2.
	The following DB2 commands need to be run on the DB2 server as the DB2 instance owner to adjust the STMTHEAP size to an appropriate values to handle larger queries:
	db2 connect to <dbname> db2 update db cfg for <dbname> using STMTHEAP 10000</dbname></dbname>
31962	The "Type ID" and "ID" fields in Merchandising Associations should be mandatory, since massoc_id and massoctype_id are required in a wcs.dtd definition. If "TypeID" and "ID" fields are left empty, the report "DataToCommerce" will not work successfully. Therefor, these two fields must be set to "Required" in all WPC specs.
31956	The Product can not be previewed from WPC.
31985	The search function in the left pane does not work as expected. The Setup hierarchy with a display attribute is not a primary key attribute while the path attribute is a primary key attribute. If you have this problem, perform a realtime search on the display attribute and it will return a value when the input primary key value is a search string.
WPC00031900	In a Hierarchy for Catalog Inheritance if you are using Non-grouping multi-occurrence attributes then the values are not inherited from the category to items in GUI. <b>Workaround:</b> Instead of a Multi-Occurring attribute, create a multi-occurring group with a single attribute of the required type. Add this attribute to the inheritance attribute collection and define the inheritance rule. <b>Impact to customer</b> : Usage of non-grouping multi-occurrence attribute for inheritance is not supported in the product.

### 5. Installation

This section provides general guidelines to apply a maintenance release to WebSphere Product Center. Some information may differ depending on the methods used for previous installations. Contact your support representative for WebSphere Product Center with any installation issues.

### 5.1 Pre-requisite for 5.2.1 FP006

WebSphere Product Center 5.2.1 must be installed prior to the application of Fix Pack 5.2.1.6. If you are migrating from a maintenance release between version 5.2.1 and 5.2.1.6, ensure that you have applied all configuration changes (for example, common.properties updates and schema changes) as stated in the readme file provided with each maintenance release.

### 5.2 Bundle file for WPC Portal Enablement integration

The manual process of Portal build creation has been changed so that common WebSphere Product Center installation will take care of Portal build. Two zip files are bundled in reference to WPC Portal Enablement integration.

Binary WPC Portal build (wpsinteg\_wps.zip)

. Portal Source zip (portal\_source.zip)

These zip files are located in

\$TOP/integration/WebSpherePortalServer/WPS/portal\_source.zip essentially includes the source code of WPC Portal Enablement.

### 5.3 Migration

This section describes the pointers and pre-requisites of the 5.1.x -> 5.2.1 FP006 Migration enablement, which uses a SQL strategy. The script called migrateto5211.sh is used to migrate the database schema used by WPC prior to 5.2.1.1 to WPC 5.2.1.1.pts/oracle/alter\_wbs\_table.sql

#### 5.3.1 Database schema change requirement

If upgrading from 5.2.1-FP004 or 5.2.1-TF010 to 5.2.1-FP006, two database schema modifications are required.

1) There is one table introduced: tutl\_map\_shared\_map which is used by Script caching. To upgrade the schema run the SQL commands present in following SQL file.

For Oracle:

\$TOP/src/db/schema/dbscripts/oracle/map\_migration\_oracle.sql

For DB2:

TOP/src/db/schema/dbscripts/db2/alter\_wbs\_table.sql

2) There are also a couple of columns added in the twbs\_wbs\_webservice table. To upgrade the schema run the SQL commands present in following SQL file:

For Oracle

\$TOP/src/db/schema/dbscripts/oracle/alter\_wbs\_table.sql

For DB2:

\$TOP/src/db/schema/dbscripts/db2/alter\_wbs\_table.sql

To apply the database schema modifications, run any included SQL instructions for your database. Make sure to create a backup of your database before running the SQL update in order to have a version of the database to revert to in case of any problems.

#### 5.3.2 Supplemental patch installer required

ID JR25779: If upgrading from version 5.2.1-FP004 (5.2.1.4), a supplemental patch installer is required to be installed. This supplemental patch installer updates the required MQ jar files required with the use of version 5.2.1.5 or later. The name of the supplemental patch installer is MQJars\_WPC-5.2.1-FP005.tgz. Use the following instructions to install:

Download and unpack the regular platform-specific 5.2.1-FP006 patch installer If upgrading from an existing 5.2.1-FP004 version, then download and unpack the supplemental patch installer in the \$TOP directory. The supplemental patch (MQJars\_WPC-5.2.1-FP005.tgz) is located at <u>ftp://ftp.software.ibm.com/software/websphere/wpc/fixpacks/5.2.1-FP005</u>. **Note:** If upgrading from any other version of 5.2.1.x, this step is not required.

#### 5.4 Preparation

Before attempting to apply the latest Maintenance Release to WebSphere Product Center, the following preparation is recommended:

#### 5.4.1 Stopping the whole application on the local machine

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

1. Check the scheduler to make sure there are no critical jobs that need to be completed. If the queue is clear, kill the scheduler manually by running the following script:

\$TOP/bin/go/stop\_scheduler.sh

2. Abort the entire application by running the following script:

\$TOP/bin/go/abort\_local.sh

All services running on the local machine is aborted. The RMI registry is aborted.

**Note:** Check to make sure all processes have stopped using the 'ps' command.

Kill off any rogue "java" or "rmiregistry" processes that remain after shutting down the instance. Occasionally, it may take several attempts to kill off all java processes. Continue killing all java processes until they are all dead.

#### 5.4.2 Backup

- Create a full backup of the current WebSphere Product Center directories before applying the Fix Pack. The Fix Pack will overwrite files that have changed. If any issues occur, the backup will allow a rollback to a previous version
- It is recommended to apply the Fix Pack to a test system to identify any issues before applying the Fix Pack to a production system
- Perform a full backup of the database before applying the Fix Pack to a production system
   Note: Do not delete the old WebSphere Product Center version until performing thorough testing with the new installation.

#### 5.4.3 Delete Tomcat working directory

For configurations using Tomcat, delete the Tomcat working directory using the following command:

rm -rf \$TOP/etc/default/tomcat33/webapps/ccd

Once the working directory has been deleted, restart the application server and apply the Fix Pack.

### 5.5 Apply Fix Pack

To apply the Fix Pack to WebSphere Product Center, complete the following tasks:

- □ Unpack tar file
- □ Run WebSphere Application Server script
- □ Update configuration files
- Test installation

#### 5.5.1 Unpack tar file

Purpose: To extract and update any new installation files into the current working directory

Note: GNU tar is needed to untar the WebSphere Product Center files.

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

Example:

{HOME\_OF\_WPC}/tarballs

2. CD to \$TOP, the current working directory, and unpack the tar file:

#### Example:

Using GNU tar, the following command extracts and unzips the tar file using an absolute path:

```
tar zxvf
/home/WPC/tarballs/wpc_5001_03_fixpak_from_5000_15_was5_db2.tgz
```

#### 5.5.2 Run WebSphere Application Server script

After unpacking the tar file in the previous section, ensure that the default server (server1) is running and run the following WebSphere Application script:

\$TOP/bin/websphere/install\_war.sh

**Note:** Ensure that the default server (server1) is running, as it is required for the WebSphere Application Server script to work. If needed, start the WAS default server by issuing the following command as root:

\${WAS\_HOME}/bin/startServer.sh server1

#### 5.5.3 Verify configuration files

Verify all configuration files required by the new installation and make any updates as needed. Refer to the backup copy of the configuration files for the previous installation if needed.

- □ common.properties
- □ admin\_properties.xml
- □ init\_ccd\_vars.sh
- □ WebSphere Product Center license file

#### common.properties

On startup, the system will use this file 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

#### WebSphere Product Center License File

The license file contains the license keys needed to use the WebSphere Product Center application.

File location: \$TOP/etc/default

#### 5.5.4 Run analyze\_schema.sh

**Recommended:** It is recommended to run the analyze\_schema.sh script once a week or when there is a twenty percent or more increase/change of data in the database.

Location: \$TOP/src/db/schema/util/analyze\_schema.sh

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 may choose an inefficient access plan based on inaccurate default statistics.

Therefore, it is highly recommended that you 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 provides the optimizer with the most accurate information with which to determine the best access plan. On WPC databases it is recommended to 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 - <u>http://www-1.ibm.com/support/docview.wss?uid=swg21205939</u>

**To run analyze schema in Oracle**, refer to the WPC technote: Analyzing WebSphere Product Center schema and collecting statistics in Oracle - <u>http://www-</u> <u>1.ibm.com/support/docview.wss?uid=swg21206376</u>

### 5.6 Test Installation

#### 5.6.1 Start WebSphere Product Center

To start the WebSphere Product Center, execute the following script:

\$TOP/bin/go/start\_local.sh

The script starts all the services needed to run WebSphere Product Center.

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

#### 5.6.2 Check status

Run the **\$TOP/bin/go/rmi\_status.sh** script that was provided by WebSphere Product Center and verify the following services have started correctly.

- admin\_<machine name>
- appsvr\_<machine name>
- eventprocessor
- queuemanager
- scheduler
- workflow

YOU HAVE SUCCESSFULLY APPLIED THE LATEST MAINTENANCE RELEASE FOR WEBSPHERE PRODUCT CENTER!

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