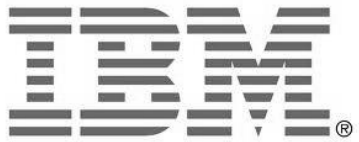IBM OpenPages with Watson
Version 8.2.0.4.7

Interim Fix ReadMe

IBM

NOTE

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

Product Information

This document applies to IBM® OpenPages® with Watson™ 8.2.0.4 and may also apply to subsequent releases.

Documentation Release Information

Last Modified: 9/2/2022

Contents

Introduction

This Interim Fix updates the IBM® OpenPages® with Watson™ environment from version 8.2.0.4 or previous 8.2.0.4.x interim Fix to 8.2.0.4 IF7 on Red Hat Enterprise Linux® (RHEL) or Microsoft™ Windows™

Defect Fixes, Enhancements, and Known Issues

Defect Fixes

The following defect fixes are included in this release. The Authorized Problem Analysis Report (APAR) ID, if available, is shown in parentheses after a description. For example: (PM12345).

OpenPages 8.2.0.4 IF7
- Security updates
- FastMap export setting 'exportActorDisplayName' does not work on system fields (PH25450)
- Error "OP-03384 'field_BA' does not contain a valid value" is thrown, when trying to save the calculated base amount of the currency field for certain exchange rate and amount (PH33817).
- In the TaskFocused UI, it is possible to change multi-select enumerated fields to single-select fields, which break the reporting schema (PH44054)
- In the Task Focused UI, current field dependency rules are enforced on the legacy data (PH47559)
- Need a role template permission for Mapping and Taxonomy suggestions (PH48294)

  Note: This adds the ability to enable a non-administrator user/group to administer Watson Taxonomy and Mapping Suggestions (Classifiers) in the Task Focused UI. A new role permission, **Watson Mapping and Taxonomy Suggestions**, has been added. An administrator can enable this new role permission in the user's or group's role template as required. Additionally, the non-administrator user/group must have Access Control [Read, Write, Manage] to the System Files > End User Applications Config > classifier folder. This role permission is not applicable to the Standard UI.
- Classifier field in Reporting Framework is not returning data (PH48295)
- Ascent data is missing for Mandates and Submandates when a new regulator is added to a profile (PH48813)
- Added support for Ascent API for regulatory text versions

  Note: If you are using the Ascent Connector, contact IBM® OpenPages Support for more information.
- OpenPages 8.2.0.4.6 database upgrades can fail due to cleanup associated with the fix for PH46924

OpenPages 8.2.0.4 IF6
- Embedded Cognos reports may not display properly within OpenPages when using Chrome (PH43378)
- Users are not able to receive reminder email as per workflow stage properties setting definition (PH44597)
- Ascent API call not delivering all content (PH45997)

  Note: If you are using the Ascent Connector, this fix requires creating a new field in OpenPages using the following instructions.

  1. Open Administration Menu -> Enable System Admin Mode -> Enable
  2. Open Administration Menu -> Object Types
  3. Search for and open the Sub-Mandate Object Type
  4. Under Field Groups, select the RCM-Ascent-Shared field group
  5. Click New Field

6. Under Name, type Modified_at
7. Under Label, type Modified Date
8. Under Data Type, select Date
9. Under Object Profiles, select the Profiles to apply the new field to
10. Click Create
11. Search for and open the Requirement Object Type
12. Under Field Groups, select the RCM-Ascent-Shared field group
13. Click New Field
14. Under Name, type Modified_at
15. Under Label, type Modified Date
16. Under Data Type, select Date
17. Under Object Profiles, select the Profiles to apply the new field to
18. Click Create
19. Open Administration Menu -> Disable System Admin Mode -> Disable
20. Open Administration Menu -> Scheduler, run the Ascent Job and verify data

- SecurityScorecard Connector throws exception when updating Currency Field (PH46115)
- DB2 only - User receives only 1 workflow reminder email even when the "Send reminders every x day(s)" is set for overdue tasks and there are overdue tasks that meet the date criteria (PH46136)
- Recalculation determinations are not optimized by applicability rules (PH46651)
- Hierarchical Copied child objects are auto named with no file extension (PH46924)
- Opening objects with a Watson classifier field can result in a permission denied error for non-admin users (PH46942)
- When logging into OpenPages, the end users may not see all the proper menus (PH47076)
- Oracle only - Explicitly prevent histograms on FULL_PATH column when adding a new object type after reporting schema generation
  Note: This is related to APAR -PH46027 fixed in 8.2.0.4.5

OpenPages 8.2.0.4 IF5
- Security updates
- Inefficient performance of calculation cleanup processes (PH45101)
- Intermittent session expired errors for users logging in to the Standard UI directly (PH45407)
- Concurrent editing with asynchronous calculations results in inconsistent behaviors (PH45744)
- Slow performance related to workflow and calculation interactions (PH45965)
- Active object query optimization is incorrectly cached (PH45973)
  Note: This is related to APAR -PH42179 fixed in 8.2.0.4.3
- UI hangs if the calc engine is unable to process the 'asyncFields' request in a timely manner (PH45998)
- Oracle Reporting Schema generation should explicitly prevent histograms on FULL_PATH column (PH46027)
- Database performance improvements for calc engine processing (PH46030)
- Bad error handling in custom trigger blocks calc engine to process queue items until server restart (PH46039)
- Workflow definition cache ignores registry setting for the cache size after the server restart (PH46434)

OpenPages 8.2.0.4 IF4
- In the Task Focused UI, parent Business entity associations do not enforce limits on numbers (PH41951)
- Recalculations includes too many objects during a hierarchical move or copy operation (PH45233)
- Out of memory error due to calculations during a copy or move operation, when large number of objects exist at the target object (PH45234)
- Bulk calculations do not always process all records (PH45314)

- Watson Natural Language Understanding integration needs to support a configurable URL to allow for proxies and other configurations (PH45090)
  Note: If you want to add an alternate URL for IAM authentication for use in a proxy, then you need to define a setting manually.
  If the setting is not present, the URL will default to https://iam.cloud.ibm.com/identity/token

  A user with OpenPages administrative privileges can add the new URL as follows:
  1. From the gear menu at the top right corner, go to `System Configuration>Settings`
  2. Set `Applications/Common/Configuration/Allow Create and Delete Settings` to **true**
  3. Go to `Common/Security` and click `New Folder`.
  4. Add a folder named **iam** and click `Create`
  5. Select `iam` and click `New Setting`
  6. Set the `Name` field to **Authentication URL** and set the `Value` to be the alternate URL and click `Create`

OpenPages 8.2.0.4 IF3

- Security updates
- Active Object query performs an expensive unnecessary join (PH42179)
- Performance degrades due to overly high volume of database interactions (PH42105)
- In the Task Focused UI, the user is unable to download a file from the previous reporting period if that file has been deleted from the current reporting period (PH40848)
- Upload file fails when file resource's last modified date does not match its latest version (PH41971)
- RCM Configuration Tool and Theme Deployer not working for one server in Load-Balanced environment (PH43019)
- OpenPages 8.2.0.4 install fails during Cognos restart when Cognos version 11.1.7 IF7 (or later) is installed (PH43855)
- OpenPages 8.2 Solutions reports fail to import when Cognos version 11.1.7 IF7 (or later) is installed (PH43879)
- Wolters Kluwer (WK) feed importer is enhanced to import changes to existing events (PH44008)
  Note: If you are using the Wolters Kluwer connector, contact IBM® OpenPages Support for more information.
- If using Watson services on IBM Cloud Pak for Data (CPD) from an OpenPages server that is not within the same CPD cluster, then you may not be able to connect to these services after installing interim fix 3. Error logs will contain
  ```
  Caused by: javax.net.ssl.SSLPeerUnverifiedException: Hostname <CP4D host name> not verified
  ```
  To resolve this, create a certificate on the CPD system that includes the externally visible host name, and then import it into the OpenPages keystore and CA store.

OpenPages 8.2.0.4 IF2

- Security updates

OpenPages 8.2.0.4 IF1

- Security updates

Before You Begin

Prerequisite Software

Prior to installing IBM® OpenPages® with Watson™ 8.2.0.4 IF7, OpenPages 8.2.0.4 or previous 8.2.0.4.x interim Fix must be installed. To install IBM® OpenPages® with Watson™ 8.2.0.4 IF7, use the OpenPages 8.2.0.4.3 Installer.

General Information

For information regarding the installation and setup of the OpenPages installer server and installer agents, please see "*OpenPages installation server and app*" topic in the IBM OpenPages with Watson 8.2.0 Installation and Deployment Guide at
https://www.ibm.com/docs/en/opw/8.2.0?topic=only-openpages-installation-server-app

Backup the current databases

Oracle database

For details, see the "Using IBM OpenPages with Watson utilities with Oracle databases" chapter in the IBM® OpenPages® with Watson™ Administrator's Guide.

Db2 database

For details, see the "Using IBM OpenPages with Watson utilities with Db2 databases" chapter in the IBM® OpenPages® with Watson™ Administrator's Guide.

Folder Substitutions

The following table contains the folder substitutions used in this document:

Substitution	Platform	Default Folder or value
<InstallerHome>	Linux	/opt/IBM/OP-Installer
	Windows	C:\IBM\OP-Installer
<InstallerMaintenance>	Linux	*<InstallerHome>*/src/assets/maintenance
	Windows	*<InstallerHome>*\src\assets\maintenance
<OP_Home>	Linux	/opt/IBM/OpenPages
	Windows	C:\IBM\OpenPages
<OP_APP_Home>	Linux	/opt/IBM/OpenPages/wlp-usr/shared/apps/op-apps.ear
	Windows	C:\IBM\OpenPages\wlp-usr\shared\apps\op-apps.ear
<OPBackup8204>	Linux	<OP_Home>/installer/maintenance/interim-fix-8.2.0.4.7/backups_from_8.2.0.4**[.*X*]** where ***X*** is the most recently installed interim fix version, if any
	Windows	<OP_Home>\installer\maintenance\interim-fix-8.2.0.4.7\backups_from_8.2.0.4**[.*X*]** where ***X*** is the most recently installed interim fix version, if any
<CC_Home>	Linux	/opt/IBM/CommandCenter
	Windows	C:\IBM\CommandCenter
<CCBackup8204>	Linux	<CC_Home>/installer/maintenance/interim-fix-8.2.0.4.7/backups_from_8.2.0.4**[.*X*]** where ***X*** is the most recently installed interim fix version, if any
	Windows	<CC_Home>\installer\maintenance\interim-fix-8.2.0.4.7\backups_from_8.2.0.4**[.*X*]** where ***X*** is the most recently installed interim fix version, if any
<OPSearch_Home>	Linux	/opt/IBM/OpenPages/Search
	Windows	C:\IBM\OpenPages\Search
<OPSearchBackup8204>	Linux	<OPSearch_Home>/installer/maintenance/interim-fix-8.2.0.4.7/backups_from_8.2.0.4**[.*X*]** where ***X*** is the most recently installed interim fix version, if any
	Windows	<OPSearch_Home>\installeraintenance\interim-fix-8.2.0.4.7\backups_from_8.2.0.4**[.*X*]** where ***X*** is the most recently installed interim fix version, if any

Installation Tasks

To install IBM® OpenPages® with Watson™ 8.2.0.4 IF7, perform the following tasks.

Decide whether to update the OpenPages database manually

When installing this interim fix, you can choose to update the database by running scripts. Use this option if you do not want to enter DBA credentials in the installation app. It is not mandatory to update the database server manually. You can use the OpenPages® installation app to update the database automatically if you prefer.

If you decide to update the database manually, please see the following topic in the "IBM OpenPages GRC Platform 8.2.0 Installation and Deployment Guide" at

Db2: Update the OpenPages database manually (DB2®)
https://www.ibm.com/docs/en/opw/8.2.0?topic=packs-update-openpages-database-manually-db2

Oracle: Update the OpenPages database manually (Oracle)
https://www.ibm.com/docs/en/opw/8.2.0?topic=packs-update-openpages-database-manually-oracle

Note: The steps to be performed for this interim fix are the same as those performed for the OpenPages 8.2.0.x fix packs, but the
`<fix_pack_kit>/OP_<version>_Main/OP_<version>_Configuration/Database /<database_type>/PATCH_SCRIPTS` directory mentioned in the steps should be replaced with the IBM OpenPages with Watson 8.2.0.4.x media location of:
`<interim_fix_kit>/Database/<database_type>/PATCH_SCRIPTS`

Task 1: Stop OpenPages Installation server

Note: For details, see the "Stopping the installation server" topic in "OpenPages installation server and app" chapter in the *IBM® OpenPages® with Watson™* Installation and Deployment Guide.

Task 2: Apply Installation Server Updates

Update the Installation server by replacing the current files with the updated files located in the interim fix kit, performing the following steps as the user that setup the Installation server.

> 2.1 Navigate to the directory <InstallerHome>/src/assets/maintenance and copy
> **openpages_installer_8-2-0-4-3.zip** from the kit

> 2.2 Navigate to the <InstallerHome> directory and run the command "**npm run upgrade**" from a command or shell window.

Task 3: Start OpenPages Installation server

Note: For details, see the "Starting the installation server" topic in the *IBM® OpenPages® with Watson™* Installation and Deployment Guide

Task 4: Patching Install Agents

Login to the installation server, select the deployment and click Validate from the deployment

Task 5: Ensure that all OpenPages servers and services are running except the Global Search server

Note: For details, see the "Starting and stopping servers" chapter in the *IBM® OpenPages® with Watson™ Administrator's Guide*

Task 6: Apply the OpenPages 8.2.0.4 IF7

Use the 8.2.0.4.3 OpenPages installer to apply the 8.2.0.4.7 Interim fix. Perform the following steps as the user that setup the Installation Server.

Using the installation app, do the following:

2.1 Ensure that the OpenPages 8.2.0.4.3 installation server is running and that the OpenPages 8.2.0.4.3 installer agents on the remote servers in the deployment (if applicable) are also running.

2.2 Copy the **openpages_interimFix_8-2-0-4-7.zip** file from the interim fix kit into the `<InstallerMaintenance>` directory on the installation server.

2.3 Open the existing 8.2.0.4 deployment and press the browser's **Refresh** button to refresh the installation app.

2.4 Click the `Deployment Task` drop-down and select `Interim Fix` and select `8.2.0.4.7` in the *Version* drop-down.

2.5 On each Report Server Card, make sure "`Java Home Directory`" is set to Cognos JRE

Note: If "`Java Home Directory`" is NOT set to the Cognos JRE on the Report Server Card
   - Set the "`Java Home Directory`" to the Cognos JRE on Report Server Card
   - On the Cognos Server set the `JAVA_HOME` environment variable to the Cognos JRE
   - Restart Install agent on the Cognos Server
   - If SSL is enabled for OpenPages, you will need to import the certificate for IBM OpenPages® with Watson™ into the Java™ JRE environment on each reporting server. For more information see the OpenPages documentation topic
   Importing the CA certificate for the Java Runtime Environment of Cognos Analytics
   - If SSL protocol is enabled for communications between IBM® Cognos® Analytics and IBM Db2, see the Cognos documentation topic for "Enabling SSL for communications with Db2"

2.6 Perform the **Validate**, **Install**, and **Configure** actions to apply the interim fix updates to the OpenPages 8.2.0.4.x deployment.

Note: Each file in the OpenPages deployment that is replaced by the interim fix content is automatically backed up into the `<OPBackup8204>`, `<CCBackup8204>`, or `<OPSearchBackup8204>` folder, as applicable.

Task 7: Stop and Restart all OpenPages servers and services

Note: For details, see the "Starting and stopping servers" chapter in the *IBM® OpenPages® with Watson™ Administrator's Guide.*

- When restarting the OpenPages application servers, use the --clean option

  For example
  ./startAllServer.sh --clean

- When restarting the IBMOpenPagesFrameworkModelGenerator service, use the --clean option.

  For example
  ./server start IBMOpenPagesFrameworkModelGenerator --clean

Uninstalling this Patch

Uninstalling 8.2.0.4 IF7 will revert the system to the previous patch level.

To uninstall IBM® OpenPages® with Watson™ 8.2.0.4 IF7, perform the following tasks as the user that setup the Installation server.

Task 1: Stop all OpenPages servers and services

Note: For details, see the "Starting and stopping servers" chapter in the *IBM® OpenPages® with Watson™ Administrator's Guide.*

Task 2: Manually restore the previous patch version from the backups

Manually restore the previous OpenPages patch level from the `<OPBackup8204>`, `<CCBackup8204>`, or `<OPSearchBackup8204>` directories created during the 8.2.0.4.7 interim fix installation, as applicable.

Note: Make sure to use the backup directory that reflects the previously installed OpenPages patch level. Restoring to a patch level that is not the previously installed patch level is not supported.

Application Servers

On each Application Server, do the following

2.1 Navigate to the `<OP_Home>/applications` directory.

2.2 Copy the following file from the `<OPBackup8204>/applications` directory:
   - `op-apps.ear`

2.3 Navigate to the `<OP_APP_Home>` directory.

2.4 Copy the following files from the `<OPBackup8204>/wlp-usr/shared/apps/op-apps.ear` directory:
   - `aurora.jar`
   - `aurora-tools.jar`
   - `opappsosaupdate.jar`
   - `opappbase.jar`
   - `opfastmap.jar`
   - `reporting.jar`
   - `com.ibm.openpages.app.jar`
   - `com.ibm.openpages.api.jar`
   - `com.ibm.openpages.env.comparison.jar`
   - `com.ibm.openpages.integration.feedimport.jar`
   - `com.ibm.openpages.integration.rca.jar`

2.5 Navigate to the `<OP_APP_Home>/sosa.war/` directory and delete the `react` subdirectory.

2.6 Copy the directory and its contents from the `<OPBackup8204>/wlp-usr/shared/apps/op-apps.ear/sosa.war/react` directory.

2.7 Navigate to the `<OP_APP_Home>/sosa.war/` directory and delete the `ckeditor` subdirectory.

2.8 Copy the directory and its contents from the `<OPBackup8204>/wlp-usr/shared/apps/op-apps.ear/sosa.war/ckeditor` directory.

2.9 Navigate to the `<OP_APP_Home>/sosa.war/WEB-INF/lib` directory

2.10 Copy the following file from the `<OPBackup8204>/wlp-usr/shared/apps/op-apps.ear/sosa.war/WEB-INF/lib` directory.
- `opappcommon.jar`

2.11 Navigate to the `<OP_APP_Home>/sosa.war/META-INF` directory

2.12 Copy the following file from the `<OPBackup8204>/wlp-usr/shared/apps/op-apps.ear/sosa.war/META-INF` directory.
- `MANIFEST.MF`

2.13 Navigate to the `<OP_APP_Home>/publishweb.war/WEB-INF/lib` directory

2.14 Copy the following file from the `<OPBackup8204>/wlp-usr/shared/apps/op-apps.ear/publishweb.war/WEB-INF/lib` directory.
- `opappcommon.jar`

2.15 Navigate to the `<OP_APP_Home>/publishweb.war/META-INF` directory

2.16 Copy the following file from the `<OPBackup8204>/wlp-usr/shared/apps/op-apps.ear/publishweb.war/META-INF` directory.
- `MANIFEST.MF`

2.17 Navigate to the `<OP_APP_Home>/taskui.war/` directory and delete the `react` subdirectory.

2.18 Copy the directory and its contents from the `<OPBackup8204>/wlp-usr/shared/apps/op-apps.ear/taskui.war/react` directory.

2.19 Navigate to the `<OP_APP_Home>/taskui.war/` directory and delete the `ckeditor` subdirectory.

2.20 Copy the directory and its contents from the `<OPBackup8204>/wlp-usr/shared/apps/op-apps.ear/taskui.war/ckeditor` directory.

2.21 Navigate to the `<OP_APP_Home>/taskui.war/META-INF` directory

2.22 Copy the following file from the `<OPBackup8204>/wlp-usr/shared/apps/op-apps.ear/taskui.war/META-INF` directory.
- `MANIFEST.MF`

2.23 Navigate to the `<OP_APP_Home>/com.ibm.openpages.api.rest.war /META-INF` directory

2.24 Copy the following file from the `<OPBackup8204>/wlp-usr/shared/apps/op-apps.ear/ com.ibm.openpages.api.rest.war /META-INF` directory.
- `MANIFEST.MF`

2.25 Navigate to the `<OP_APP_Home>/META-INF` directory

2.26 Copy the following file from the `<OPBackup8204>/wlp-usr/shared/apps/op-apps.ear/META-INF` directory.
- `MANIFEST.MF`

2.27 Navigate to the `<OP_APP_Home>` directory

2.28 Delete the following files
- `gson-2.8.9.jar`
- `sdk-core-9.15.0.jar`
- `common-9.3.1.jar`
- `language-translator-9.3.1.jar`
- `natural-language-classifier-9.3.1.jar`
- `natural-language-understanding-9.3.1.jar`
- `discovery-9.3.1.jar`
- `log4j-api-2.17.1.jar`
- `log4j-core-2.17.1.jar`
- `log4j-jcl-2.17.1.jar`
- `log4j-jul-2.17.1.jar`
- `log4j-slf4j-impl-2.17.1.jar`
- `spring-aop-5.2.22.RELEASE.jar`
- `spring-aspects-5.2.22.RELEASE.jar`
- `spring-beans-5.2.22.RELEASE.jar`
- `spring-context-5.2.22.RELEASE.jar`
- `spring-core-5.2.22.RELEASE.jar`
- `spring-expression-5.2.22.RELEASE.jar`
- `spring-oxm-5.2.22.RELEASE.jar`
- `spring-test-5.2.22.RELEASE.jar`
- `spring-web-5.2.22.RELEASE.jar`
- `spring-webmvc-5.2.22.RELEASE.jar`

2.29 Copy all the `log4j` and `spring` files and the following files from the `<OPBackup8204>/wlp-usr/shared/apps/op-apps.ear` directory.
- `gson-2.8.5.jar`
- `sdk-core-9.5.4.jar`
- `common-9.2.0.jar`
- `language-translator-9.2.0.jar`
- `natural-language-classifier-9.2.0.jar`
- `natural-language-understanding-9.2.0.jar`
- `discovery-9.2.0.jar`

2.30 Navigate to the `<OP_Home>/bin` directory.

2.31 Copy the following file from the `<OPBackup8204>/bin` directory:
- `QuestionnaireUtility.cmd`
- `QuestionnaireUtility.sh`
- `RpsRpf.cmd`
- `RpsRpf.sh`
- `NotificationManager.sh`
- `NotificationManager.cmd`
- `ObjectManager.cmd`
- `ObjectManager.sh`
- `chng-sys-password.cmd`
- `chng-sys-password.sh`
- `UpdatePasswordEncryptionAlgorithm.cmd`
- `UpdatePasswordEncryptionAlgorithm.sh`

2.32 Navigate to the `<OP_Home>/lib` directory

2.33 Delete the following files

- log4j-api-2.17.1.jar
- log4j-core-2.17.1.jar
- log4j-slf4j-impl-2.17.1.jar
- spring-beans-5.2.22.RELEASE.jar
- spring-core-5.2.22.RELEASE.jar
- spring-jcl-5.2.22.RELEASE.jar
- spring-web-5.2.22.RELEASE.jar

2.34 Copy all the `log4j` and `spring` files from the `<OPBackup8204>/lib` directory

2.35 Navigate to the `<OP_Home>/aurora/bin/compare_environments` directory

2.36 Delete the following files
- log4j-api-2.17.1.jar
- log4j-core-2.17.1.jar
- log4j-slf4j-impl-2.17.1.jar

2.37 Copy all the `log4j` files and the following file from the `<OPBackup8204>/aurora/bin/compare_environments` directory
- com.ibm.openpages.env.comparison.jar

2.38 Navigate to the `<OP_Home>/aurora/op-ext-lib` directory

2.39 Delete the following file
- log4j-1.2-api-2.17.1.jar

2.40 Copy the `log4j` file and the following file from the `<OPBackup8204>/aurora/op-ext-lib` directory
- openpages-solutions.jar

2.41 Navigate to the `<OP_Home>/aurora/conf` directory

2.42 Copy the following file from the `<OPBackup8204>/aurora/conf` directory:
- versioninfo.txt

2.43 Navigate to the `<OP_Home>/Notices` directory.

2.44 Copy the following file from the `<OPBackup8204>/Notices` directory:
- Notices.doc

2.45 Navigate to the `<OP_Home>/license` directory.

2.46 Copy the following file from the `<OPBackup8204>/license` directory:
- notices

2.47 Navigate to the `<OP_Home>` directory.

2.48 Copy the following file from the `<OPBackup8204>` directory:
- openpagesregistry.xml

Reporting Servers

On each Reporting Server, do the following

2.1 Navigate to the
`<CC_Home>/wlp/usr/servers/IBMOpenPagesFrameworkModelGenerator/apps/crf-refresher.war/WEB-INF/lib/` directory.

2.2 Delete the following files
- `log4j-api-2.17.1.jar`
- `log4j-core-2.17.1.jar`
- `log4j-jcl-2.17.1.jar`
- `log4j-jul-2.17.1.jar`

2.3 Copy all the `log4j` files as well as the following files from the
`<CCBackup8204>/wlp/usr/servers/IBMOpenPagesFrameworkModelGenerator/apps/crf-refresher.war/WEB-INF/lib/` directory.

- `aurora-tools.jar`
- `reporting.jar`

2.4 Navigate to the `<CC_Home>/temp/p2pd` directory

2.5 Copy the following file from the `<CCBackup8204>/temp/p2pd` directory
- `aurora-tools.jar`

2.6 Navigate to the `<cognos_home>/webapps/p2pd/WEB-INF/lib` directory

2.7 Copy the following file from the `<CCBackup8204>/COGNOS/webapps/p2pd/WEB-INF/lib`
directory
- `aurora-tools.jar`

2.8 Navigate to the `<CC_Home>/license` directory.

2.9 Copy the following file from the `<CCBackup8204>/license` directory:
- `notices`

2.10 Navigate to the `<CC_Home>` directory.

2.11 Copy the following file from the `<CCBackup8204>` directory:
- `openpagesregistry.xml`

Global Search Server

On the Global Search Server, do the following

2.1 Navigate to the `<OPSearch_Home>/solr/server/lib/ext` directory.

2.2 Copy the following file from the `<OPSearchBackup8102>/solr/server/lib/ext` directory:
- `log4j-1.2.17.jar`

2.3 Navigate to the `<OPSearch_Home>/opsearchtools` directory.

2.4 Copy the following file from the `<OPSearchBackup8204>/opsearchtools` directory:

- `opsearchtool.jar`

2.5 Navigate to the `<OPSearch_Home>` `/Notices` directory.

2.6 Copy the following file from the `<OPSearchBackup8204>/Notices` directory:
- `Notices.doc`

2.7 Navigate to the `<OPSearch_Home>` directory.

2.8 Copy the following file from the `<OPSearchBackup8204>` directory:
- `openpagesregistry.xml`

Task 3: Restore Databases

Oracle database

For details, see the "Using IBM OpenPages with Watson utilities with Oracle databases" chapter in the IBM® OpenPages® with Watson™ Administrator's Guide.

Db2 database

For details, see the "Using IBM OpenPages with Watson utilities with Db2 databases" chapter in the IBM® OpenPages® with Watson™ Administrator's Guide

Task 4: Start all OpenPages servers and services

Note: For details, see the "Starting and stopping servers" chapter in the IBM® OpenPages® with Watson™ Administrator's Guide.

When restarting the OpenPages application servers, use the --clean option.

For example
./startAllServer.sh --clean

Documentation Updates

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