Oracle® Healthcare Data Repository
Release Notes

8.2.0.5

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Oracle Healthcare Data Repository Release Notes, 8.2.0.5

G37304-01

Contents

Preface

This preface contains the following sections:

- [Documentation accessibility](#)
- [Diversity and Inclusion](#)

Documentation accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc.

Diversity and Inclusion

Oracle is fully committed to diversity and inclusion. Oracle respects and values having a diverse workforce that increases thought leadership and innovation. As part of our initiative to build a more inclusive culture that positively impacts our employees, customers, and partners, we are working to remove insensitive terms from our products and documentation. We are also mindful of the necessity to maintain compatibility with our customers' existing technologies and the need to ensure continuity of service as Oracle's offerings and industry standards evolve. Because of these technical constraints, our effort to remove insensitive terms is ongoing and will take time and external cooperation.

1
Introduction

This patch set contains new enhancement for Oracle Healthcare Data Repository Fast Healthcare Interoperability Resources (FHIR) module.

Apply this patch set to Oracle Healthcare Data Repository FHIR release 8.2.0.2 or 8.2.0.3 to upgrade to Oracle Healthcare Data Repository FHIR release 8.2.0.5. See Installation for complete instructions.

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What's Fixed

The following Healthcare Data Repository (HDR) Fast Healthcare Interoperability Resources (FHIR) bugs/enhancements are fixed in this release:

Table 2-1   Fixed in 8.2.0.5

Bug Number	Description
Enhancement 38064577	The HDR FHIR server did not perform a soft delete when invoking the $expunge operation via a POST request at the instance level. As a result, permanently deleting a resource required a two-step process: **1. Soft delete using the DELETE operation.** **2. Hard delete using the $expunge operation.** Now, the HDR FHIR server supports performing both soft delete and hard delete in a single step using the $expunge POST operation at the instance level. This behavior can be controlled through the following option: **Using an HTTP Request Header** Set the following http header in the request: **X-Force-Delete-Expunge: true** If this header is present and set to true, the server will perform both soft delete and hard delete in a single step via the $expunge POST operation at instance level. If this header is not present, or if it is set to false or any value other than true, the server will default to the original two-step process.

Table 2-1   (Cont.) Fixed in 8.2.0.5

Bug Number	Description
Enhancement 38103866	The HDR FHIR server could not be configured to disable caching of FHIR search query strings and their associated results. As a result, for every FHIR search query invocation, entries were inserted into the HFJ_SEARCH, HFJ_SEARCH_INCLUDE and HFJ_SEARCH_RESULT tables. This led to enq: TX - index contention issues in the database due to frequent insert operations.
	Now, the HDR FHIR server can be configured to disable FHIR search queries and the associated result caching in the database using the following configuration property:
	search_query_result_cache_enabled: false
	• If this property is set to false, the server will skip caching entries in the HFJ_SEARCH, HFJ_SEARCH_INCLUDE, and HFJ_SEARCH_RESULT tables during each FHIR search query execution.
	• If this property is not present, or if it is set to true, the server will cache search queries and their results in the respective tables by default.

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Installation

To install the Healthcare Data Repository patch, you need to download and install it. You then need to perform some post-installation steps.

See the following topics for details.

- [Download the Patch](#)
  Oracle distributes the patch set in a zip file.

- [Install the Patch](#)
  To install the patch, you must first extract the contents of the patch set file and then install it on the middle tier.

- [Perform the Post-Installation Steps](#)
  Perform the following steps after you install the patch on the middle tier.

Download the Patch

Oracle distributes the patch set in a zip file.

To locate and download the patch set:

1. Log in to My Oracle Support at support.oracle.com/signin.

2. Select the **Patches & Updates** tab. The Patches and Updates page opens and shows the Patch Search region.

3. In the **Patch Name** or **Number** field, enter the primary bug number fixed in this patch (**38064577**).

4. Select **Search** to open the Patch Search page to the patch you entered.

5. Select the patch number. You can review details about the patch. You can also review the Readme file before downloading the patch.

6. Select **Download** to open the File Download dialog box.

7. Browse to a temporary directory where you want to download the file. Select **Continue**.

8. Select **Save**.

9. Transfer the patch .zip file to the necessary servers.

Install the Patch

To install the patch, you must first extract the contents of the patch set file and then install it on the middle tier.

Extract the contents of the patch set file (**p38064577_82050_Generic.zip**) to a temporary directory <hdr8205_patch_dir>. The following directories and files are extracted:

- **server** - contains the following artifacts for middle tier:

  – Updated oracle-fhir-server.war file to be deployed on the WebLogic server.

  – Updated hdr_fhir.yaml file to be used for Healthcare Data Repository FHIR application.

– Updated log4j2.properties file to be used for Healthcare Data Repository FHIR application.

- **hdrfhircli** - contains the following updated zip file to be used for the FHIR CLI module. Extract the zip file and use the features of the FHIR CLI module.

  – hdr-fhir-cli-app.zip

- **ReadMe_HDR_8_2_0_5.htm** - contains the location of the most current user documentation and release notes.

You can then install the patch on the middle tier as described in the following topic.

- [Install the Patch on the Middle Tier](#)
  After you extract the contents of the patch set file, you can install the patch on the middle tier.

Install the Patch on the Middle Tier

After you extract the contents of the patch set file, you can install the patch on the middle tier.

To install the patch on the middle tier:

1. Before applying the patch, back up the existing HDR FHIR WAR file — either the 8.2.0.2 or 8.2.0.3 version of oracle-fhir-server.war, depending on which one you are currently using — along with the corresponding hdr_fhir.yaml and log4j2.properties files, in case you need to revert.

2. Navigate to the WebLogic Web administration interface and undeploy the HDR FHIR WAR module to remove it.

3. Extract the contents of **p38064577_82050_Generic.zip** to a directory on the middle tier.

4. Ensure that **HDR FHIR DataSource (FhirDataSource)** with corresponding jndi name (**jdbc/FhirDataSource**) is already created.

5. Stop HDR FHIR WebLogic managed server.

6. Copy the <hdr8205_patch_dir>/server/hdr_fhir.yaml to <fhir_domain>/config/fhir. Ensure that any properties configured as per your requirement or environment in the previous HDR 8.2.0.2/8.2.0.3 version's hdr_fhir.yaml file are reflected in the new version of the hdr_fhir.yaml file.

7. Copy the <hdr8205_patch_dir>/server/log4j2.properties to <fhir_domain>/config/fhir. Ensure that any properties configured as per your requirement or environment in the previous HDR 8.2.0.2/8.2.0.3 version's log4j2.properties file are reflected in the new version of the log4j2.properties file.

8. Ensure that the following JVM argument under JAVA_OPTIONS are properly configured in the startManagedWebLogic.sh file (for example: $WL_HOME/user_projects/domains/fhir_domain/bin/startManagedWebLogic.sh).

   - -Dlogging.config=$DOMAIN_HOME\config\fhir\log4j2.properties

   - -Dhdr_fhir_config_location=$DOMAIN_HOME\config\fhir\hdr_fhir.yaml

   Example

   JAVA_OPTIONS="-Dhdr_fhir_config_location=$DOMAIN_HOME/config/fhir/hdr_fhir.yaml -Dlogging.config=$DOMAIN_HOME/config/fhir/log4j2.properties ${JAVA_OPTIONS}" && export JAVA_OPTIONS

9. Ensure that the following properties in $DOMAIN_HOME/config/fhir/hdr_fhir.yaml file is set to true or false based on your requirement.

- search_query_result_cache_enabled: true/false

10. Start the FHIR WebLogic managed server.

11. Deploy the new version of the HDR FHIR war (**oracle-fhir-server.war**) module as follows:

    - Navigate to the WebLogic Web administration interface.

    - Select **Local packaged file or directory that is accessible from the Application Server**.

    - Browse to the <**hdr8205_patch_dir**> directory where you extracted the patch file (**oracle-fhir-server.war**) to select and deploy the FHIR war file.

You can now perform the post-installation steps.

Perform the Post-Installation Steps

Perform the following steps after you install the patch on the middle tier.

After you install the patch on the middle tier, you need to:

1. Stop and start the WebLogic Admin server and the HDR FHIR Managed server.

2. When the FHIR server is configured to disable caching of FHIR search query strings and their associated results in the database using the configuration property search_query_result_cache_enabled, the server stops the automatic clean-up of stale search data. As a result, data may persist in the following tables:

   HFJ_SEARCH,HFJ_SEARCH_RESULT,HFJ_SEARCH_INCLUDE

   If caching is disabled, run the following SQL statements on the HDR_FHIR schema to manually clean up the stale search data:

   DELETE FROM HFJ_SEARCH_INCLUDE;
   DELETE FROM HFJ_SEARCH_RESULT;
   DELETE FROM HFJ_SEARCH;

3. Extract the updated HDR FHIR CLI module zip file on the middle tier and you can use the features of this module:

   <hdr8205_patch_dir>/hdrfhircli/hdr-fhir-cli-app.zip

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Product Documentation

Oracle Healthcare Data Repository comes with a full documentation set for 8.2 or later.

You can find the product documentation in the following location:

- **Oracle Help Center**
  Oracle Healthcare Data Repository product page:

  docs.oracle.com/en/industries/health-sciences/healthcare-data-repository/index.html

  Oracle may not update all documents for every release. Therefore, you may see a release with guides that include different versions. For example, Release Notes can show the latest patch version number and the User Guide shows the full release number.

Glossary

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