

# Oracle® Healthcare Data Repository

## Release Notes



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ORACLE®

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# 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

## Oracle Healthcare Data Repository

This patch set contains new enhancement for Oracle Healthcare Data Repository FHIR module. Apply this patch set to Oracle Healthcare Data Repository release 8.2.0.2 to upgrade to Oracle Healthcare Data Repository release 8.2.0.3.

For details on installing Healthcare Data Repository release 8.2.0.3, see the [Installation](#) chapter.

- [What's Fixed](#)  
The Oracle Healthcare Data Repository FHIR server did not provide support for additional partitioning features. It now supports additional features as described in the following table.

### What's Fixed

The Oracle Healthcare Data Repository FHIR server did not provide support for additional partitioning features. It now supports additional features as described in the following table.

Table 1-1 Fixed in 8.2.0.3

Bug Number	Description
Enhancement 37379344	<p>The Healthcare Data Repository FHIR server supports the following additional partitioning features:</p> <ul style="list-style-type: none"> <li> <b>URL-Based Partitioning:</b> This feature is enabled by default when partitioning is active. Once URL-based partitioning is enabled, the endpoint URL must contain the partition name. Example Endpoint URL: &lt;BaseUrl&gt;/&lt;Partition_Name&gt;/Patient If you prefer an alternative partitioning approach, you can disable URL- based partitioning by setting the following property in the <code>hdr_fhir.yaml</code> property file: <b>allow_default_tenant_partition_interceptor = false</b> </li> <li> <b>Partitioning Based on Custom HTTP Headers:</b> The HDR FHIR server now also supports partitioning based on custom HTTP headers. To enable this, configure the following fully qualified class name in the “<b>custom- interceptor-classes</b>” property defined in the <code>hdr_fhir.yaml</code> property file.           <ul style="list-style-type: none"> <li> <b>Class</b>  <b>Name:</b> <code>com.oracle.hsgbu.hdr.fhir.partition.HeaderBasedPartitionInterceptor</code> To enable partitioning based on custom HTTP headers, perform the following:               <ol style="list-style-type: none"> <li> <b>Enable Partitioning and Disable Default URL-Based Partitioning:</b> Update the <code>hdr_fhir.yaml</code> file with the following configuration: partitioning:                   <ul style="list-style-type: none"> <li>allow_references_across_partitions: false</li> <li>partitioning_include_in_search_hashes: false</li> <li><b>allow_default_tenant_partition_interceptor: false</b></li> </ul> </li> <li> <b>Enable and Configure the custom-interceptor-classes Property:</b> Add/Uncomment the following line to the <code>hdr_fhir.yaml</code> file to configure the <code>HeaderBasedPartitionInterceptor</code> class:                   <b>custom-interceptor-classes:</b>  <code>com.oracle.hsgbu.hdr.fhir.partition.HeaderBasedPartitionInterceptor</code> </li> <li> <b>Specify Custom HTTP Header Names for Partitioning:</b> Use the following properties to define your own custom HTTP header names used as partition headers in the <code>HeaderBasedPartitionInterceptor</code> class. If these properties are not configured, the default values X- Partition-Name, X-Partition-Date, and yyyy-MM-dd will be used.                   <code>partition_name_key_http_header: X-Partition-Name</code>  <code>partition_date_key_http_header: X-Partition-Date</code>  <code>partition_date_format: yyyy-MM-dd</code> </li> </ol> </li> </ul> </li> <li> <b>Custom Partitioning:</b> In addition to URL-based and HTTP-header-based partitioning, users can implement their own partitioning logic. This can be done by creating a custom partitioning interceptor class with the desired logic and registering it with the HDR FHIR Server. Use the following property in the <code>hdr_fhir.yaml</code> file to configure the custom interceptor: <b>custom-interceptor-classes: &lt;Fully Qualified Custom interceptor class name&gt;</b> To enable custom partitioning defined by the user, perform the following:           <ol style="list-style-type: none"> <li> <b>Ensure Partitioning is Enabled and Disable Default URL-Based Partitioning:</b> In the <code>hdr_fhir.yaml</code> file, configure the following settings: partitioning:               <ul style="list-style-type: none"> <li>allow_references_across_partitions: false</li> <li>partitioning_include_in_search_hashes: false</li> <li><b>allow_default_tenant_partition_interceptor: false</b></li> </ul> </li> </ol> </li> </ul>

Table 1-1 (Cont.) Fixed in 8.2.0.3

Bug Number	Description
	<ol style="list-style-type: none"><li><b>2. Create a Custom Partition Interceptor Class:</b> Implement your own partitioning logic in a custom interceptor class and ensure the custom class is compiled and included in a JAR file.</li><li><b>3. Add the JAR to the HDR FHIR Application WAR Classpath:</b> Place the JAR file in the WEB-INF/lib directory of the HDR FHIR WAR application.</li><li><b>4. Enable the custom-interceptor-classes Property:</b> In the <code>hdr_fhir.yaml</code> file, configure the fully qualified name of the custom interceptor class to this property: <code>custom-interceptor-classes: &lt;Fully Qualified Custom Interceptor Class Name&gt;</code></li></ol>

# 2

## 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 Step](#)  
Perform the following step 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](https://support.oracle.com/signin).
2. Click the **Patches & Updates** tab. The Patches and Updates page appears and displays the Patch Search region.
3. In the **Patch Name** or **Number** field, enter the primary bug number fixed in this patch (**37379344**).
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 (**p37379344\_HDR\_8203\_Generic.zip**) to a temporary directory <hdr8203\_patch\_dir>. This extracts the following directories and files:

- **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.
- **ReadMe\_HDR\_8\_2\_0\_3.htm** - Contains the location of the most current user documentation and another copy of these 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 you apply the patch, take a backup of the HDR FHIR 8.2.0.2 war file (oracle-fhir-server.war), hdr\_fhir.yaml file and log4j2.properties file in case you want 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 p37379344\_HDR\_82030\_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 and pointing to the new HDR FHIR 8.2.0.2 database schema.
5. Stop HDR FHIR WebLogic managed server.
6. Copy the <hdr8203\_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 version's hdr\_fhir.yaml file are reflected in the new version of the hdr\_fhir.yaml file.
7. Copy the <hdr8203\_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 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).
  - a. -Dlogging.config=\$DOMAIN\_HOME\config\fhir\log4j2.properties
  - b. -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. Start the FHIR WebLogic managed server.
10. Deploy the new version of the Healthcare Data Repository FHIR war (oracle-fhir-server.war) module as follows:
  - a. Navigate to the WebLogic Web administration interface.
  - b. Select **Local packaged file or directory that is accessible from the Application Server**.

- c. Browse to the `<hdr8203_patch_dir>` directory where you extracted the patch file (`oracle-fhir-server.war`) to select and deploy the FHIR war file.

## Perform the Post-Installation Step

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

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

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

# 3

## 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 locations:

- My Oracle Support: [support.oracle.com/signin](https://support.oracle.com/signin)
- Oracle Help Center: Healthcare Data Repository 8.2 product page [Oracle Healthcare Data Repository product page](#) 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.