RedPoint Data Management Release Notes Version 8.2.2

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Prerequisites and requirements

This release of RedPoint Data Management offers several features and improvements. Before installing it, you should be aware of some prerequisites and requirements:

- *You must have the Java Runtime Environment (JRE) Version 8 (64-bit) installed on your server machines to run RedPoint Data Management Version 8.* If you have an older version of the Java JRE installed, visit http://www.oracle.com/technetwork/java/javase/downloads/jre8-downloads-2133155.html to upgrade.
- If you are installing the Data Management client on a different machine than the Data Management services, you may need to open the firewall ports associated with those processes so that the client can access the services. Data Management Version 8 uses different port numbers than previous versions, so that you can continue to run multiple versions side-by-side.

Process	Default ports
Site Server	20410
Execution Server	20411-20416
Web Proxy Server	20417

  If any ports in the range 20410-20417 are already in use, you can change these defaults during installation:

  ➔ Click **Show advanced site server settings**, and specify an available **Base Port**. (To review a list of active connections, press the Windows logo key + R and then type `cmd`. Type `netstat -a -n` at the command line.)

- If you are upgrading from Data Management Version 7.x, you will be given the option to migrate the repository to Version 8. *Note that previously-defined connections to Hadoop clusters cannot be migrated, and must be defined again.*

- If you are upgrading from Data Management Version 7.x and choose to migrate the repository to Version 8, both versions will use the same folder for temporary disk space. This can cause problems if you run both versions at the same time. To prevent this, change the temp space path to a different folder:

  1. In the Data Management client, browse to **Repository** > **Settings** > **Site**, and click the **Resources** tab.
  2. Edit each entry under **Temp Spaces** to ensure that Version 8 of Data Management is using a different **Path** than Version 7.

3. Click **Commit**.
4. Restart the Data Management services.

End of support advance notice

To better serve our customers, RedPoint will be ending support of the following versions of platforms and operating systems:

Windows

- Data Management 8.2 will be the last version to include support for Windows 7.

MySQL

- Data Management 8.2 will be the last version to include support for MySQL 5.1 and MySQL 5.5.

Vertica

- Data Management 8.2 will be the last version to include support for Vertica 7.

We will continue to support these operating systems and database versions until the release of Data Management 8.3, scheduled for Fall 2018, after which we will no longer test or support them. For a list of supported platforms and databases, please see the "Data Management User Guide."

Features and improvements

This release of RedPoint Data Management offers the following enhancements and fixes:

- New **Avoid other canvas objects** User Setting lets you determine whether tool connectors route around annotations and other canvas objects (the default behavior) or pass through canvas objects. *This setting applies only to new projects.*
- Data Management's command-line processing utility `rpdm_shell.exe` now supports custom server timeout intervals to override the default timeout of 5 minutes. For example:

  ```
  rpdm_shell.exe -timeout=600
  ```

  results in all subsequent shell commands having a timeout of 10 minutes.
- Changes to the Reorder tool's properties are now automatically committed when the **Property commit** User Setting is configured as **Always**.
- Selecting all tools in a project that contains a very large number of tools no longer causes the execution server to exit abnormally.
- Annotation shape objects no longer unexpectedly change fill color when the line color is edited.
- SQL queries in RDBMS Input tools configured with a MySQL 5.7 JDBC data connection no longer cause timeouts in the Data Management client.

Known issues

Java classpath settings are deprecated

In previous versions of Data Management, you could influence the classpath of Data Management's embedded Java Virtual Machine (JVM) in one of two ways:

- Enable the **Use CLASSPATH environment variable** option.
- Add folders and JARs to the class path in /Settings/Site or /Settings/Machines/*machine*.

These settings were most commonly used to reference third-party JDBC drivers and custom tools created with the Data Management SDK. However, class-path collisions between the referenced JARs and other Java-based applications could occur, causing errors that could be difficult to resolve.

As of version 8.2.1, Data Management employs a modular class-loader strategy to avoid such errors. However, this requires that you manage your Java dependencies more carefully. Therefore, the two techniques described above are ***deprecated***. Any previously-defined configuration settings using this option will be removed during upgrade installations.

Installing JDBC drivers

If you previously accessed third-party JDBC drivers using one of the deprecated options, you should install those drivers in the Data Management installation folder instead.

To install JDBC drivers

1. Copy the JDBC driver JARs to the computers that host your Data Management Execution Servers, placing them in the `\jdbc_drivers` folder in the Data Management installation folder.
2. Close and re-open any projects or automations that use JDBC drivers, and restart any web services.

Installing Data Management SDK tools

If you previously accessed custom SDK tools using one of the deprecated options, you should install the custom JARs in the Data Management installation folder instead.

To install custom Data Management SDK tools

1. Close the Data Management clients.
2. Stop the Data Management Site and Execution services.
3. Copy the SDK tool JARs to the computer that hosts your Data Management Site Server, placing them in the `\java_plugins` folder in the Data Management installation folder.
4. Restart the Data Management Site and Execution services.
5. When you start the Data Management client, the SDK tools should appear on the Palette. If not, click the Palette menu ☰, and then click **Reset Palette**.

Data Management will find the new tools and assign each SDK tool JAR its own ClassLoader to prevent classpath dependency collisions. If your tool requires additional libraries, you must include those dependencies in your SDK tool JAR.

Data Management SDK tool development

If you are developing your own SDK tools that depend on third-party libraries, we no longer recommend that you add those third-party library JARs to the class path. Instead, you must include those dependencies in your SDK tool JAR using the Apache Maven Shade Plugin. Refer to the Data Management SDK Developer Guide for details and examples.

Previously-defined shared tool settings may be removed

If you have previously defined shared tool settings in the repository for Data Magement's MQ, Salesforce, or Kafka tools, these settings may be removed during upgrade, and you must re-enter them after installing version 8.3.1.

To define shared tool settings

1. Open the Tools folder under Settings in the repository.
2. Click the tab for the desired tool name, and then view the Properties pane.
3. Configure the default tool properties for your environment.

Hadoop secure mode and Linux Integrated Security cannot be used together

When you configure a Data Management Hadoop connection to use Kerberos, Data Management creates a Kerberos configuration file (`krb5.conf`) in a non-default location, and specifies the Java System Property `java.security.krb5.conf` to point to that location. On Linux, Kerberos is used with Integrated Active Directory Authentication (or *Integrated Security*) via a configuration file created by the System Administrator, and also uses the `java.security.krb5.conf` Java System Property. This conflict can cause data connection failures in Data Management.

Indexes created with Cosmos DB Execute tool assigned default names

Due to a bug in Cosmos DB, index names you define using the Cosmos DB Execute tool's CREATE command may be assigned default names.

Using built-in SQL functions with RDBMS tool configured for Oracle JDBC causes error

Due to an issue with Oracle's JDBC driver, SQL statements that include Prepared Statement parameter replacement may fail with an error, because the JDBC driver is unable to replace parameters used as arguments to a SQL function in a Prepared Statement. For example, this statement:

```
SELECT * FROM oracle_tablename WHERE DUMMYDATE = TO_DATE(?,'yyyy-mm-dd') ORDER BY
ID,DUMMYDATE
```

will get the following error:

```
Error creating field specification list: Unsupported feature: checkValidIndex
```

Workaround

Do not use Prepared Statement parameter replacement with Oracle/JDBC.