

# Release Notes

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## Cloudera JDBC Driver for Impala 2.6.23

Released 2021-02-26

These release notes provide details of enhancements, features, workflow changes, and known issues in Cloudera JDBC Driver for Impala 2.6.23, as well as the version history.

### Enhancements & New Features

#### [IMPJ-604] SSO authentication

You can now authenticate using single sign-on (SSO) via SAML 2.0 on supported servers. For more information, see the *Installation and Configuration Guide*.

## Workflow Changes

The following changes may disrupt established workflows for the driver.

### Version 2.6.23

#### [IMPJ-536] Removed support for JDBC 4.0 (Java 6)

Beginning with this release, the driver no longer supports JDBC 4.0 (Java 6). For a list of supported JDBC versions, see the *Installation and Configuration Guide*.

### Version 2.6.20

#### [IMPJ-612] Removed support for earlier versions of CDH

Beginning with this release, the driver no longer supports CDH versions 5.11 through 5.16. For a list of supported CDH versions, see the *Installation and Configuration Guide*.

### Version 2.6.19

#### [IMPJ-597] Removed support for Cloudera Altus

Beginning with this release, the driver no longer supports Cloudera Altus.

## Version 2.6.17

### [IMPJ-553] Removed support for earlier versions of Impala and CDH

Beginning with this release, the driver no longer supports Impala 2.7 and CDH 5.0 to 5.10. For a list of supported versions, see the *Installation and Configuration Guide*.

## Version 2.6.16

### [IMPJ-501] Removed support for Impala 1.0.1 to 2.6

Beginning with this release, the driver no longer supports Impala 1.0.1 to 2.6. For a list of supported Impala versions, see the *Installation and Configuration Guide*.

## Version 2.6.15

### New default port

Beginning with this release, if the port is not specified in the connection URL, the driver uses a default port depending on the specified transport mode:

- If the transport mode is specified as HTTP, the driver uses port 28000 as the default.
- If the transport mode is specified as SASL or binary, or is not specified, the driver uses port 21050 as the default.

Previously, the driver always used port 21050 as the default port.

## Version 2.6.1

### Removed support for JDBC 3 (Java 5)

Beginning with this release, the driver no longer supports JDBC 3 (Java 5). Only JDBC 4 (Java 6) and JDBC 4.1 (Java 7) are supported.

# Version History

## Version 2.6.22

Released 2021-01-22

### Enhancements & New Features

#### [00289968][IMPJ-627] Updated SSL support

The driver now supports BCFKS TrustStores files. To specify the TrustStore type, set the `SSLTrustStoreType` property to the preferred type. For more information, see the *Installation and Configuration Guide*.

## Version 2.6.21

Released 2020-12-31

### Resolved Issues

The following issue has been resolved in Cloudera JDBC Driver for Impala 2.6.21.

- [IMPJ-620] When using PreparedStatements, queries containing EXTRACT clauses fail.

## Version 2.6.20

Released 2020-12-18

### Enhancements & New Features

#### [IMPJ-601] Updated third-party libraries

The JDBC 4.1 driver has been updated to use the following libraries:

- log4j 2.2.1
- slf4j 1.7.30

#### [IMPJ-607] Updated CDP support

The driver now supports CDP 7.1. For a list of supported CDP versions, see the *Installation and Configuration Guide*.

## Resolved Issues

The following issues have been resolved in Cloudera JDBC Driver for Impala 2.6.23.

- [00265194][IMPJ-606] When the server returns 0 rows, the driver stops fetching results.
- [00276449][IMPJ-610] When executing consecutive statements, the driver does not update the parameter values.
- [00276906][IMPJ-611] The driver incorrectly classifies queries containing comments and whitespaces.

## Version 2.6.19

Released 2020-10-30

## Resolved Issues

The following issues have been resolved in Cloudera JDBC Driver for Impala 2.6.19.

- [00187435][IMPJ-555] If the API call fails, the driver does not retry idempotent API calls to the server when using the HTTP transport.
- [00143882][00147580][00194881][IMPJ-559][IMPJ-483][IMPJ-513] When connecting to CDH 6.3 or Impala 3.2 or later, the driver returns an incorrect row count of -1 for write-back statements.
- [00237489][IMPJ-591] When an HTTP exception is returned by Hive Server 2, the driver does not return the message body.

## Version 2.6.18

Released 2020-08-28

## Enhancements & New Features

### [IMPJ-561] Support for Java 11

The driver now supports Java 11.

### [IMPJ-566][IMPJ-580] Updated third-party libraries

The JDBC 4.2 driver has been updated to use the following libraries:

- log4j 2.13.3
- slf4j 1.7.30

The JDBC 4.0 and 4.1 versions of the driver continue to use the previous versions of these libraries..

### **[00221973] [IMPJ-569] Statement.setFetchSize API call support**

The driver now supports the values set via the Statement.setFetchSize API call.

## **Resolved Issues**

The following issues have been resolved in Cloudera JDBC Driver for Impala 2.6.18.

- [00195066][IMPJ-562] The driver converts UPSERT-SELECT to INSERT-SELECT.
- [00200861][IMPJ-568] When Impala analytic functions are used, the driver does not honor upper-case column aliases.
- [00206440][IMPJ-576][IMPJ-574] The driver logs incorrect socket timeout values.
- [00206060][IMPJ-578] When the `UseNativeQuery` property is set to 1 and there is a space between "comment" and "show partitions", the driver returns an error.

## **Version 2.6.17**

**Released 2020-02-12**

## **Enhancements & New Features**

### **[IMPJ-547] Updated CDH support**

The driver now supports CDH versions 5.11 through 5.16 and 6.0 through 6.3.

### **[IMPJ-565] Updated CDP support**

The driver now supports CDP version 7.0.

### **[IMPJ-493] Updated Jackson library**

The driver now uses version 2.10.1 of the Jackson library. Previously, the driver used Jackson version 2.9.9.

## Resolved Issues

The following issues have been resolved in Cloudera JDBC Driver for Impala 2.6.17.

- [00147825][IMPJ-516] The driver does not generate the correct syntax for character parameters in prepared statements if the length of the parameter value is greater than 510.
- [00147114][IMPJ-512] `getParameterMetaData()` returns VARCHAR for all parameters.
- [00147464][IMPJ-514] When you use the `com.cloudera.impala.jdbc.DataSource` class to connect with the JDBC 4.1 or 4.2 version of the driver, the driver returns a class cast exception.
- [IMPJ-520] The JDBC 4.1 version of the driver fails to connect to servers that require encryption using TLS 1.2.

This has been resolved. However, be aware that this issue still persists for the JDBC 4.0 version of the driver. For more information, see the "Known Issues" section.

## Version 2.6.16

Released 2019-09-06

## Enhancements & New Features

### [00143621] [IMPJ-484] Support for DATE data type

The driver now supports the DATE data type for Impala version 3.3.0 or later. For more information, see "Data Types" in the *Installation and Configuration Guide*.

### [IMPJ-493] Zookeeper updated

The driver now uses Zookeeper version 3.4.14.

### [MPJ-500] Jackson-databind updated

The driver now uses Jackson-databind version 2.9.9.3.

## Version 2.6.15

Released 2019-07-24

### Enhancements & New Features

#### [IMPJ-489] Default port

If a port is not specified in the connection URL, the driver now uses a default port depending on the specified transport mode:

- If the transport mode is specified as HTTP, the driver uses port 28000 as the default.
- If the transport mode is specified as SASL or binary, or is not specified, the driver uses port 21050 as the default.

#### [IMPJ-487] HTTP header host name

When the driver uses an HTTP header, the header now uses the host name instead of the resolved IP address.

### Resolved Issues

The following issue has been resolved in Cloudera JDBC Driver for Impala 2.6.15.

- [IMPJ-488] If `AuthMech` is set to 0 and `UID` and `PWD` are specified in the connection URL, the username and password are not sent.

This has been resolved. Now, if `UID` or `PWD` are specified in the connection URL, the driver always sends them to the server.

## Version 2.6.14

Released 2019-06-25

### Enhancements & New Features

#### [IMPJ-465] Updated Impala and CDH support

The driver now supports Impala versions 1.0.1 through 3.2, and CDH versions 5.0 through 5.16 and 6.0 through 6.2.

**[IMPJ-471] Support for JDBC 4.2**

The driver now supports JDBC 4.2.

**[00141942][IMPJ-463][IMPJ-479] Support for HTTP transport**

The driver now supports the use of the HTTP transport protocol. To use this transport protocol, set the new `TransportMode` configuration option to `http`, and then set the new `httpPath` configuration option to the partial URL corresponding to the Impala server. For more information, see the *Installation and Configuration Guide*.

**Note:** The `TransportMode` option replaces and supersedes the deprecated `UseSasl` option.

**[IMPJ-472] New JDBC class names**

The driver now supports the following class names for `Driver` and `DataSource` that are independent of the JDBC version used:

- `com.cloudera.impala.jdbc.Driver`
- `com.cloudera.impala.jdbc.DataSource`

The previous JDBC-version-specific class names for 4.0 and 4.1 are still supported.

**[IMPJ-477] Updated Jackson library**

The driver has been updated to use Jackson 2.9.9.

## Version 2.6.13

Released 2019-05-24

## Resolved Issues

The following issue has been resolved in Cloudera JDBC Driver for Impala 2.6.13.

- [00142091][IMPJ-461] The driver casts empty strings to `CHAR(0)`, causing issues on the server.

This issue is resolved. The driver now casts empty strings to `CHAR(1)`.

# Contact Us

If you are having difficulties using the driver, our [Community Forum](#) may have your solution. In addition to providing user to user support, our forums are a great place to share your questions, comments, and feature requests with us.

If you are a Subscription customer you may also use the [Cloudera Support Portal](#) to search the Knowledge Base or file a Case.

**Important:** To help us assist you, prior to contacting Cloudera Support please prepare a detailed summary of the client and server environment including operating system version, patch level, and configuration.