



Simba Amazon Athena JDBC Data Connector

Migration Guide

Version 2.2

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About This Guide

This document lists differences between the connectors that may disrupt workflows when you migrate from the 1.x connector to the 2.x connector, and provides recommendations on how to recreate those workflows for a successful migration. The guide is intended for end users of the Simba Amazon Athena JDBC Connector.

Document Conventions

The following conventions are used throughout this guide to emphasize important concepts:

Italics are used when referring to book and document titles.

Bold is used in procedures for graphical user interface elements that a user clicks and text that a user types.

Monospace font indicates commands, source code or contents of text files.



Note: A text box with a blue exclamation mark indicates a short note appended to a paragraph.



Important: A text box with a yellow exclamation mark indicates an important comment related to the preceding paragraph.

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Upgrading From 1.x to 2.0.x

JDBC Connector Class Name

The connectors use different class names.

Version 1.x	Version 2.x
<code>com.simba.athena.amazonaws.athena.jdbc.AthenaDriver</code>	<code>com.simba.athena.jdbc.Driver</code>

If you are using the following line in your code to explicitly load the connector class in your source code:

```
Class.forName("com.simba.athena.amazonaws.athena.jdbc.AthenaDriver");  
then you will need to change it to:  
Class.forName("com.simba.athena.jdbc.Driver");
```

Connection URL

Specifying the Host and Port

The 2.x version provides an alternative way to specify the AWS region.

1.x Version	2.x Version
<pre>jdbc:awsathena://athena. {REGION}.amazonaws.com:443</pre> <p>Where {REGION} is a region identifier, such as <code>us-west-2</code></p>	<pre>jdbc:awsathena://athena. {REGION}.amazonaws.com:443 Or jdbc:awsathena://AwsRegion={REGION}</pre> <p>Where {REGION} is a region identifier, such as <code>us-west-2</code>. If {REGION} is specified using both endpoint URL and <code>AwsRegion</code>, the value specified in <code>AwsRegion</code> takes precedence.</p>

Changes are not required in this case, but be aware the 2.x version provides an alternative way to specify the AWS region in the connection URL.

Connection String Attributes Separator

The connectors use different attribute separators in their connection URLs.

1.x Version	2.x Version
& and ?	;

The following is an example connection URL using the 1.x version syntax:

```
jdbc:awsathena://athena.us-west-1.amazonaws.com:443?s3_staging_dir=s3://query-
resultsbucket/folder/&query_results_encryption_option=SSE_S3
```

The following shows the equivalent URL constructed using the 2.x version syntax:

```
jdbc:awsathena://athena.us-west-1.amazonaws.com:443;s3_staging_dir=s3://query-
resultsbucket/folder/;query_results_encryption_option=SSE_S3
```

Connector Configuration Options

There are some differences in the supported connection properties for the connectors.

Version 1.x Option	Version 2.x Option	Possible Values	
log_path	LogPath	No difference.	
log_level	LogLevel	1.x	2.x
		OFF	0
		FATAL	1
		ERROR	2
		WARNING	3
		INFO	4
		DEBUG	5
		TRACE	6
retry_base_delay	Not configurable.		
retry_max_backoff_time	Not configurable.		

Following is an example connection URL for enabling logging using the syntax for version 1.x:

```
jdbc:awsathena://athena.us-west-1.amazonaws.com:443?s3_staging_dir=s3://query-  
resultsbucket/folder/&log_level=TRACE&log_path=/tmp
```

The following is the equivalent connection URL using the syntax for version 2.x:

```
jdbc:awsathena://athena.us-west-1.amazonaws.com:443;s3_staging_dir=s3://query-  
resultsbucket/folder/;LogLevel=6;LogPath=/tmp
```

ResultSetMetaData Differences for API Calls

The connectors return different metadata for the following API calls.

getCatalogs

Column Name	Version 1.x		Version 2.x	
TABLE_CAT	Metadata	Value	Metadata	Value
	Type Name	varchar	Type Name	VARCHAR
	Type ID	-16	Type ID	12
	Display Size	1073741824	Display Size	128
	Precision	1073741824	Precision	128
	Scale	0	Scale	0

getColumns

Column Name	Version 1.x		Version 2.x	
TABLE_CAT	Metadata	Value	Metadata	Value
TABLE_SCHEM	Type Name	varchar	Type Name	VARCHAR
TABLE_NAME	Type ID	-16	Type ID	12
COLUMN_NAME	Display Size	1073741824	Display Size	128
TYPE_NAME	Precision	1073741824	Precision	128
IS_AUTOINCREMENT	Scale	0	Scale	0
IS_GENERATEDCOLUMN	Metadata	Value	Metadata	Value
REMARKS	Type Name	varchar	Type Name	VARCHAR
COLUMN_DEF	Type ID	-16	Type ID	12
IS_NULLABLE	Display Size	1073741824	Display Size	254
SCOPE_CATALOG	Precision	1073741824	Precision	254
SCOPE_SCHEMA	Scale	0	Scale	0
SCOPE_TABLE				

Column Name	Version 1.x		Version 2.x	
SOURCE_DATA_TYPE	Metadata	Value	Metadata	Value
	Type Name	smallint	Type Name	INTEGER
	Type ID	5	Type ID	4
	Display Size	6	Display Size	11
	Precision	5	Precision	10
	Scale	0	Scale	0

getSchemas

Column Name	Version 1.x		Version 2.x	
TABLE_SCHEM TABLE_CATALOG	Metadata	Value	Metadata	Value
	Type Name	varchar	Type Name	VARCHAR
	Type ID	-16	Type ID	12
	Display Size	1073741824	Display Size	128
	Precision	1073741824	Precision	128
	Scale	0	Scale	0

getTables

Column Name	Version 1.x		Version 2.x	
TABLE_CAT TABLE_SCHEM TABLE_NAME TABLE_TYPE TYPE_CAT TYPE_SCHEM TYPE_NAME SELF_REFERENCING_COL_NAME REF_GENERATION	Metadata	Value	Metadata	Value
	Type Name	varchar	Type Name	VARCHAR
	Type ID	-16	Type ID	12
	Display Size	1073741824	Display Size	128
	Precision	1073741824	Precision	128
	Scale	0	Scale	0

Column Name	Version 1.x		Version 2.x	
REMARKS	Metadata	Value	Metadata	Value
	Type Name	varchar	Type Name	VARCHAR
	Type ID	-16	Type ID	12
	Display Size	1073741824	Display Size	254
	Precision	1073741824	Precision	254
	Scale	0	Scale	0

Data Type for TIME Literal in Query Result

For a query such as `SELECT TIME '12:00:00'`, the connectors use different data types in the query result set for the TIME literal column.

Version 1.x	Version 2.x
TIME	VARCHAR

Upgrading from 2.0.2 to 2.0.5 or later

Result Set Streaming Support

Starting with version 2.0.5, the connector uses the result set streaming API to improve the performance in fetching query results. To take advantage of this feature, you must do the following:

- Include and allow the `athena:GetQueryResultsStream` action in your IAM policy statement. For details on managing Athena IAM policies, see <https://docs.aws.amazon.com/athena/latest/ug/access.html>.
- If you are connecting to Athena through a proxy server, make sure that the proxy server does not block port 444. The result set streaming API uses port 444 on the Athena server for outbound communications.