



DataStax drivers

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DataStax drivers

Important: DataStax [strongly recommends](#) using the DataStax drivers for DataStax Enterprise.

The [Connecting to DSE clusters using DSE drivers \(page \)](#) documentation provides information to get you started using DataStax drivers.

DataStax drivers for DataStax Enterprise Version compatibility (page 6)		
C/C++ DSE driver (page)	Node.js DSE driver (page) / DSE Graph Extension (page)	Ruby DSE driver (page) (Maintenance mode)
C# DSE driver (page) / DSE Graph Extension (page)	PHP DSE driver (page) (Maintenance mode)	
Java DSE driver (page) (DSE Graph Extension included)	Python DSE driver (page) / DSE Graph Extension (page)	
DataStax drivers for Apache Cassandra Version compatibility (page 6)		
C/C++ OSS driver (page)	Node.js OSS driver (page)	Ruby OSS driver (page) (Maintenance mode)
C# OSS driver (page)	PHP OSS driver (page) (Maintenance mode)	
Java OSS driver (page)	Python OSS driver (page)	
ODBC/JDBC Drivers		
<i>Administrator Guide</i> Simba ODBC Driver for Spark (Linux) (page) / (Windows) (page)	<i>Developer Guide</i> Simba ODBC Driver for Spark (Linux) (page) / (Windows) (page)	DataStax ODBC Driver for Apache Cassandra and DataStax Enterprise with CQL connector

<i>Administrator Guide</i> Simba JDBC Driver for Spark (page)	<i>Developer Guide</i> Simba JDBC Driver for Spark (page)	
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Version compatibility

The DataStax drivers work exclusively with the Cassandra Query Language version 3 ([CQL3 \(page \)](#)) for transactional workloads and support both Fluent and String APIs for DSE Graph workloads. Use these drivers in production applications to pass CQL or DSE Graph statements from the client to a cluster and to retrieve, manipulate, or remove data. The C/C++, C#, Java, Node.js, PHP, Python, and Ruby drivers support Cassandra's binary protocol.

Get any driver from [DataStax Academy downloads](#).

DataStax Enterprise 5.1 compatibility: You can use any DataStax driver that supports Apache Cassandra™ 3.1. However, to use functionality for DSE 5.1 and later, such as DSE Graph, you must use the DataStax Enterprise specific drivers.

C/C++ drivers

DataStax Enterprise C/C++ Driver

Icon legend

Driver version	DataStax Enterprise version			
Version	6.7	6.0	5.1	5.0
1.7 (page)	#	#	#	#
1.6 (page)	#	#	#	#
1.5 (page)	#	#	#	#
1.4 (page)	# ² (page 6)	# ² (page 6)	#	#
1.3 (page)	# ² (page 6)	# ² (page 6)	#	#
1.2 (page)	# ² (page 6)	# ² (page 6)	#	#
1.1 (page)	# ¹ (page 6)	# ¹ (page 6)	# ¹ (page 6)	#
1.0 (page)	# ¹ (page 6)	# ¹ (page 6)	# ¹ (page 6)	#

¹Limited to DSE 5.0 API.

²Limited to DSE 5.1 API.

DataStax C/C++ Driver for Apache Cassandra™

Icon legend

Driver version	Apache Cassandra version			DataStax Enterprise version			
	3.0+	2.2	2.1	6.7	6.0	5.1	5.0
2.11 (page 8)	#	#	#	#1 (page 8)	#1 (page 8)	#1 (page 8)	#1 (page 8)
2.10 (page 8)	#	#	#	#1 (page 8)	#1 (page 8)	#1 (page 8)	#1 (page 8)
2.9 (page 8)	#	#	#	#1 (page 8)	#1 (page 8)	#1 (page 8)	#1 (page 8)
2.8 (page 8)	#	#	#	#1 (page 8)	#1 (page 8)	#1 (page 8)	#1 (page 8)
2.7 (page 8)	#	#	#	#1 (page 8)	#1 (page 8)	#1 (page 8)	#1 (page 8)
2.6 (page 8)	#	#	#	#1 (page 8)	#1 (page 8)	#1 (page 8)	#1 (page 8)
2.5 (page 8)	#	#	#	#1 (page 8)	#1 (page 8)	#1 (page 8)	#1 (page 8)
2.4 (page 8)	#	#	#	#1 (page 8)	#1 (page 8)	#1 (page 8)	#1 (page 8)
2.3 (page 8)	#	#	#	#1 (page 8)	#1 (page 8)	#1 (page 8)	#1 (page 8)
2.2.2+ (page 8)	#3 (page 8)	#	#	#2 (page 8)	#2 (page 8)	#2 (page 8)	#2 (page 8)
2.2.1	#	#	#	#	#	#	#
2.2.0	#	#	#	#	#	#	#
2.1 (page 8)	#	#	#	#	#	#	#

Driver version	Apache Cassandra version			DataStax Enterprise version			
2.0 (page)	#	#	# ³ (page 8)	#	#	#	#
1.0 (page)	#	#	# ³ (page 8)	#	#	#	#

¹While the OSS drivers are able to connect to DSE clusters, DataStax strongly recommends upgrading to the DSE drivers in order to take full advantage of all DSE features.

²Driver is incompatible with Cassandra 3.0. Although it can execute requests, metadata is broken.

³Limited to the Cassandra 2.0 API.

Table 1: Matrix table icons legend

Icon	Description
#	Latest stable version actively maintained
#	Fully compatible.
#	Partially compatible.
#	Incompatible

New features and bug fixes are developed on the latest minor version of the driver, and users are encouraged to stay current with those minor releases. APIs are maintained stable according to *semantic versioning* conventions, and upgrades should be trivial.

C# drivers

DataStax Enterprise C# Driver

Icon legend

Driver version	DataStax Enterprise version			
Version	6.7	6.0	5.1	5.0
2.4 (page)	#	#	#	#
2.3 (page)	#	#	#	#
2.2 (page)	#	#	#	#

Driver version	DataStax Enterprise version			
2.1 (page)	# ² (page 9)	# ² (page 9)	#	#
2.0 (page)	# ² (page 9)	# ² (page 9)	#	#
1.1 (page)	# ¹ (page 9)	# ¹ (page 9)	# ¹ (page 9)	#
1.0 (page)	# ¹ (page 9)	# ¹ (page 9)	# ¹ (page 9)	#

¹Limited to DSE 5.0 API.

²Limited to DSE 5.1 API

DataStax C# Driver for Apache Cassandra™

Icon legend

Driver version	Apache Cassandra version			DataStax Enterprise version			
	3.0+	2.2	2.1	6.7	6.0	5.1	5.0
3.7 (page)	#	#	#	# ¹ (page 10)	# ¹ (page 10)	# ¹ (page 10)	# ¹ (page 10)
3.6 (page)	#	#	#	# ¹ (page 10)	# ¹ (page 10)	# ¹ (page 10)	# ¹ (page 10)
3.5 (page)	#	#	#	# ¹ (page 10)	# ¹ (page 10)	# ¹ (page 10)	# ¹ (page 10)
3.4 (page)	#	#	#	# ¹ (page 10)	# ¹ (page 10)	# ¹ (page 10)	# ¹ (page 10)
3.3 (page)	#	#	#	# ¹ (page 10)	# ¹ (page 10)	# ¹ (page 10)	# ¹ (page 10)
3.2 (page)	#	#	#	# ¹ (page 10)	# ¹ (page 10)	# ¹ (page 10)	# ¹ (page 10)
3.1 (page)	#	#	#	# ¹ (page 10)	# ¹ (page 10)	# ¹ (page 10)	# ¹ (page 10)

Driver version	Apache Cassandra version			DataStax Enterprise version			
3.0 (page)	#	#	#	# ¹ (page 10)	# ¹ (page 10)	# ¹ (page 10)	# ¹ (page 10)
2.7	#	#	#	#	#	#	#
2.6	#	#	#	#	#	#	#
2.5	#	# ² (page 10)	#	#	#	#	#

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²Limited to the Cassandra 2.1 API

Table 2: Matrix table icons legend

Icon	Description
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Java drivers

DataStax Enterprise Java Driver

Icon legend

Driver version	DataStax Enterprise version			
Version	6.7	6.0	5.1	5.0
1.7 (page)	#	#	#	#
1.6 (page)	#	#	#	#
1.5 (page)	# ² (page 11)	# ² (page 11)	#	#

Driver version	DataStax Enterprise version			
1.4 (page)	# ² (page 11)	# ² (page 11)	#	#
1.3 (page)	# ² (page 11)	# ² (page 11)	#	#
1.2 (page)	# ² (page 11)	# ² (page 11)	#	#
1.1 (page)	# ¹ (page 11)	# ¹ (page 11)	# ¹ (page 11)	#

¹Limited to DSE 5.0 API.

²Limited to DSE 5.1 API.

DataStax Java Driver for Apache Cassandra™

Icon legend

Driver version	Apache Cassandra version			DataStax Enterprise version			
	3.0	2.2	2.1	6.7	6.0	5.1	5.0
3.7 (page)	#	#	#	# ¹ (page 12)	# ¹ (page 12)	# ¹ (page 12)	# ¹ (page 12)
3.6 (page)	#	#	#	# ¹ (page 12)	# ¹ (page 12)	# ¹ (page 12)	# ¹ (page 12)
3.5 (page)	#	#	#	# ¹ (page 12)	# ¹ (page 12)	# ¹ (page 12)	# ¹ (page 12)
3.4 (page)	#	#	#	# ¹ (page 12)	# ¹ (page 12)	# ¹ (page 12)	# ¹ (page 12)
3.3 (page)	#	#	#	# ¹ (page 12)	# ¹ (page 12)	# ¹ (page 12)	# ¹ (page 12)
3.2 (page)	#	#	#	# ¹ (page 12)	# ¹ (page 12)	# ¹ (page 12)	# ¹ (page 12)
3.1 (page)	#	#	#	# ¹ (page 12)	# ¹ (page 12)	# ¹ (page 12)	# ¹ (page 12)

Driver version	Apache Cassandra version			DataStax Enterprise version			
3.0 (page)	#	#	#	# ¹ (page 12)	# ¹ (page 12)	# ¹ (page 12)	# ¹ (page 12)
2.1 (page)	# ² (page 12)	# ³ (page 12)	# ³ (page 12)	# ² (page 12)	# ² (page 12)	# ² (page 12)	# ² (page 12)

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Table 3: Matrix table icons legend

Icon	Description
#	Latest stable version actively maintained
#	Fully compatible.
#	Partially compatible.
#	Incompatible

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Node.js drivers

DataStax Enterprise Node.js Driver

Icon legend

Driver version	DataStax Enterprise version			
Version	6.7	6.0	5.1	5.0
1.7 (page)	#	#	#	#
1.6 (page)	#	#	#	#

Driver version	DataStax Enterprise version			
1.5 (page)	# ² (page 13)	# ² (page 13)	#	#
1.4 (page)	# ² (page 13)	# ² (page 13)	#	#
1.3 (page)	# ² (page 13)	# ² (page 13)	#	#
1.2	# ¹ (page 13)	# ¹ (page 13)	# ¹ (page 13)	#
1.1	# ¹ (page 13)	# ¹ (page 13)	# ¹ (page 13)	#
1.0	# ¹ (page 13)	# ¹ (page 13)	# ¹ (page 13)	#

¹Limited to DSE 5.0 API.

²Limited to DSE 5.1 API.

DataStax Node.js Driver for Apache Cassandra™

Icon legend

Driver version	Apache Cassandra version			DataStax Enterprise version			
Version	3.0+	2.2	2.1	6.7	6.0	5.1	5.0
3.6 (page)	#	#	#	# ¹ (page 14)	# ¹ (page 14)	# ¹ (page 14)	# ¹ (page 14)
3.5 (page)	#	#	#	# ¹ (page 14)	# ¹ (page 14)	# ¹ (page 14)	# ¹ (page 14)
3.4 (page)	#	#	#	# ¹ (page 14)	# ¹ (page 14)	# ¹ (page 14)	# ¹ (page 14)
3.3 (page)	#	#	#	# ¹ (page 14)	# ¹ (page 14)	# ¹ (page 14)	# ¹ (page 14)
3.2 (page)	#	#	#	# ¹ (page 14)	# ¹ (page 14)	# ¹ (page 14)	# ¹ (page 14)

Driver version	Apache Cassandra version			DataStax Enterprise version			
3.1 (page)	#	#	#	# ¹ (page 14)	# ¹ (page 14)	# ¹ (page 14)	# ¹ (page 14)
3.0 (page)	#	#	#	# ¹ (page 14)	# ¹ (page 14)	# ¹ (page 14)	# ¹ (page 14)

¹While the OSS drivers are able to connect to DSE clusters, DataStax strongly recommends upgrading to the DSE drivers in order to take full advantage of all DSE features.

Table 4: Matrix table icons legend

Icon	Description
#	Latest stable version actively maintained
#	Fully compatible.
#	Partially compatible.
#	Incompatible

New features and bug fixes are developed on the latest minor version of the driver, and users are encouraged to stay current with those minor releases. APIs are maintained stable according to *semantic versioning* conventions, and upgrades should be trivial.

PHP drivers

DataStax Enterprise PHP Driver

Icon legend

Driver version	DataStax Enterprise version		
Version	5.1	5.0	4.8
1.1 (page)	#	#	#
1.0 (page)	# ¹ (page 14)	#	#

¹Limited to DSE 5.0 API.

DataStax PHP Driver for Apache Cassandra™

Icon legend

Driver version	Apache Cassandra version			DataStax Enterprise version		
Version	3.0	2.2	2.1	5.1	5.0	4.8
1.3 (page 15)	#	#	#	#¹ (page 15)	#¹ (page 15)	#
1.2 (page 15)	#	#	#	#¹ (page 15)	#¹ (page 15)	#
1.1 (page 15)	#² (page 15)	#² (page 15)	#	#² (page 15)	#² (page 15)	#
1.0 (page 15)	#	#	#³ (page 15)	#	#	#³ (page 15)

¹While the OSS drivers are able to connect to DSE clusters, DataStax strongly recommends upgrading to the DSE drivers in order to take full advantage of all DSE features.

²Limited to the Cassandra 2.1 API

³Limited to the Cassandra 2.0 API.

Table 5: Matrix table icons legend

Icon	Description
#	Latest stable version actively maintained
#	Fully compatible.
#	Partially compatible.
#	Incompatible

New features and bug fixes are developed on the latest minor version of the driver, and users are encouraged to stay current with those minor releases. APIs are maintained stable according to *semantic versioning* conventions, and upgrades should be trivial.

Python drivers

DataStax Enterprise Python Driver

Icon legend

Driver version	DataStax Enterprise version			
Version	6.7	6.0	5.1	5.0
2.7 (page)	#	#	#	#
2.6 (page)	#	#	#	#
2.5 (page)	#	#	#	#
2.4 (page)	# ² (page 16)	# ² (page 16)	#	#
2.3 (page)	# ² (page 16)	# ² (page 16)	#	#
2.2 (page)	# ² (page 16)	# ² (page 16)	#	#
2.1 (page)	# ² (page 16)	# ² (page 16)	#	#
2.0 (page)	# ² (page 16)	# ² (page 16)	#	#
1.1 (page)	# ¹ (page 16)	# ¹ (page 16)	# ¹ (page 16)	#
1.0 (page)	# ¹ (page 16)	# ¹ (page 16)	# ¹ (page 16)	#

¹Limited to DSE 5.0 API.

²Limited to DSE 5.1 API.

DataStax Python Driver for Apache Cassandra™

Icon legend

Driver version	Apache Cassandra version			DataStax Enterprise version			
Version	3.0+	2.2	2.1	6.7	6.0	5.1	5.0
3.16 (page)	#	#	#	# ¹ (page 18)	# ¹ (page 18)	# ¹ (page 18)	# ¹ (page 18)
3.15 (page)	#	#	#	# ¹ (page 18)	# ¹ (page 18)	# ¹ (page 18)	# ¹ (page 18)
3.14 (page)	#	#	#	# ¹ (page 18)	# ¹ (page 18)	# ¹ (page 18)	# ¹ (page 18)

Driver version	Apache Cassandra version			DataStax Enterprise version			
3.13 (page)	#	#	#	# ¹ (page 18)	# ¹ (page 18)	# ¹ (page 18)	# ¹ (page 18)
3.12 (page)	#	#	#	# ¹ (page 18)	# ¹ (page 18)	# ¹ (page 18)	# ¹ (page 18)
3.11 (page)	#	#	#	# ¹ (page 18)	# ¹ (page 18)	# ¹ (page 18)	# ¹ (page 18)
3.10 (page)	#	#	#	# ¹ (page 18)	# ¹ (page 18)	# ¹ (page 18)	# ¹ (page 18)
3.9 (page)	#	#	#	# ¹ (page 18)	# ¹ (page 18)	# ¹ (page 18)	# ¹ (page 18)
3.8 (page)	#	#	#	# ¹ (page 18)	# ¹ (page 18)	# ¹ (page 18)	# ¹ (page 18)
3.7 (page)	#	#	#	# ¹ (page 18)	# ¹ (page 18)	# ¹ (page 18)	# ¹ (page 18)
3.6 (page)	#	#	#	# ¹ (page 18)	# ¹ (page 18)	# ¹ (page 18)	# ¹ (page 18)
3.5 (page)	#	#	#	# ¹ (page 18)	# ¹ (page 18)	# ¹ (page 18)	# ¹ (page 18)
3.4	#	#	#	# ³ (page 18)	# ³ (page 18)	# ³ (page 18)	# ³ (page 18)
3.3	#	#	#	# ¹ (page 18)	# ¹ (page 18)	# ¹ (page 18)	# ¹ (page 18)
3.2	#	#	#	# ¹ (page 18)	# ¹ (page 18)	# ¹ (page 18)	# ¹ (page 18)

Driver version	Apache Cassandra version			DataStax Enterprise version			
3.1	#	#	#	# ¹ (page 18)	# ¹ (page 18)	# ¹ (page 18)	# ¹ (page 18)
3.0	#	#	#	# ¹ (page 18)	# ¹ (page 18)	# ¹ (page 18)	# ¹ (page 18)
2.7	#	#	#	#	#	#	#
2.6	#	#	#	#	#	#	#
2.5	#	# ² (page 18)	#	#	#	#	#
2.4	#	# ² (page 18)	#	#	#	#	#
2.3	#	# ² (page 18)	#	#	#	#	#
2.2	#	# ² (page 18)	#	#	#	#	#
2.1	#	# ² (page 18)	#	#	#	#	#

¹While the OSS drivers are able to connect to DSE clusters, DataStax strongly recommends upgrading to the DSE drivers in order to take full advantage of all DSE features.

²Limited to the Cassandra 2.1 API.

Table 6: Matrix table icons legend

Icon	Description
#	Latest stable version actively maintained
#	Fully compatible.
#	Partially compatible.
#	Incompatible

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Ruby drivers

DataStax Enterprise Ruby Driver

Icon legend

Driver version	DataStax Enterprise version			
Version	6.7	6.0	5.1	5.0
2.1 (page)	# ¹ (page 19)	# ¹ (page 19)	# ¹ (page 19)	#
2.0 (page)	# ¹ (page 19)	# ¹ (page 19)	# ¹ (page 19)	#
1.0 (page)	# ¹ (page 19)	# ¹ (page 19)	# ¹ (page 19)	#

¹Limited to the DSE 5.0 API.

DataStax Ruby Driver for Apache Cassandra™

Icon legend

Driver version	Apache Cassandra version			DataStax Enterprise version			
Version	3.0	2.2	2.1	6.7	6.0	5.1	5.0
3.2 (page)	#	#	#	# ² (page 20)	# ² (page 20)	# ² (page 20)	# ² (page 20)
3.1 (page)	#	#	#	# ² (page 20)	# ² (page 20)	# ² (page 20)	# ² (page 20)
3.0 (page)	#	#	#	# ² (page 20)	# ² (page 20)	# ² (page 20)	# ² (page 20)
2.1 (page)	#	#	#	# ¹ (page 20)	# ¹ (page 20)	# ¹ (page 20)	# ¹ (page 20)
2.0 (page)	#	#	# ¹ (page 20)	# ¹ (page 20)	# ¹ (page 20)	# ¹ (page 20)	# ¹ (page 20)

Driver version	Apache Cassandra version			DataStax Enterprise version			
1.2 (page)	#	#	#¹ (page 20)	#¹ (page 20)	#¹ (page 20)	#¹ (page 20)	#¹ (page 20)
1.1 (page)	#	#	#¹ (page 20)	#¹ (page 20)	#¹ (page 20)	#¹ (page 20)	#¹ (page 20)
1.0 (page)	#	#	#¹ (page 20)	#¹ (page 20)	#¹ (page 20)	#¹ (page 20)	#¹ (page 20)

¹Limited to the Cassandra 2.0 API.

²While the OSS drivers are able to connect to DSE clusters, we strongly recommend upgrading to the DSE drivers in order to take full advantage of all DSE features.

Table 7: Matrix table icons legend

Icon	Description
#	Latest stable version actively maintained
#	Fully compatible.
#	Partially compatible.
#	Incompatible

New features and bug fixes are developed on the latest minor version of the driver, and users are encouraged to stay current with those minor releases. APIs are maintained stable according to *semantic versioning* conventions, and upgrades should be trivial.