
MySQL Connector/Node.js Release Notes

Abstract

This document contains release notes for the changes in each release of MySQL Connector/Node.js.

For additional Connector/Node.js documentation, see <http://dev.mysql.com/>.

Updates to these notes occur as new product features are added, so that everybody can follow the development process. If a recent version is listed here that you cannot find on the download page (<http://dev.mysql.com/downloads/>), the version has not yet been released.

The documentation included in source and binary distributions may not be fully up to date with respect to release note entries because integration of the documentation occurs at release build time. For the most up-to-date release notes, please refer to the online documentation instead.

For legal information, see the [Legal Notices](#).

For help with using MySQL, please visit either the [MySQL Forums](#) or [MySQL Mailing Lists](#), where you can discuss your issues with other MySQL users.

For additional documentation on MySQL products, including translations of the documentation into other languages, and downloadable versions in variety of formats, including HTML and PDF formats, see the [MySQL Documentation Library](#).

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Preface and Legal Notices

This document contains release notes for the changes in each release of MySQL Connector/Node.js.

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Changes in MySQL Connector/Node.js 8.0

Changes in MySQL Connector/Node.js 8.0.11 (Not yet released)

Version 8.0.11 has no changelog entries, or they have not been published because the product version has not been released.

Changes in MySQL Connector/Node.js 8.0.10 (Skipped version number)

There are no release notes for this skipped version number.

Changes in MySQL Connector/Node.js 8.0.9 (2018-01-30, Release Candidate)

- [Functionality Added or Changed](#)
- [Bugs Fixed](#)

Functionality Added or Changed

- Improved the UUID generation algorithm to implement the design improvements suggested in RFC 4122. Before the chance of duplicated values during a small time frame was too high. (Bug #26120588)
- *X DevAPI*: In the process of refining the definition of the X DevAPI to cover the most relevant usage scenarios, the following API components have been removed from the X DevAPI implementation for Connector/Node.js:
 - API components that support session configurations, such as the `SessionConfig` and `SessionConfigManager` classes.
 - The `mysqlx.config` namespace and all methods of the namespace, `save()`, `get()`, `list()`, `delete()`, and more.
 - The `createTable()`, `foreignKey()`, `dropTable()`, `createView()`, `dropView()`, and `alterView()` methods from the `Schema` class.
- The following methods were added:
 - `Session.setSavePoint`: accepts a name or generates one of the form `connector-nodejs-{uuid}`, and returns a Promise.
 - `Session.releaseSavePoint`: releases a specific savepoint.

- `Session.rollbackTo`: rolls back to a specified savepoint.
- The `createIndex()` method was added to the Collection API.

Bugs Fixed

- The expression parser used by the CRUD API was replaced with a new implementation written in pure JavaScript. This fixes several grammar related bugs.

(Bug #26729768, Bug #26636956, Bug #25036336, Bug #23148246)

- The `CollectionFind.fields()` method was updated to support flexible parameters to follow standard X DevAPI conventions. (Bug #22084545)

Changes in MySQL Connector/Node.js 8.0.8 (2017-09-28, Development Milestone)

- [Functionality Added or Changed](#)
- [Bugs Fixed](#)

Functionality Added or Changed

- The following Collection methods were added: `replaceOne()`, `addOrReplaceOne()`, `findOne()`, `removeOne()`. For details, see [Tutorial: Working with Documents](#).
- Added row locking support by adding the `lockExclusive()` and `lockShared()` methods to the `CollectionFind` and `TableSelect` classes. For additional information, see [Tutorial: Row Locking](#).
- Extended Authentication support, including SHA-256. For additional information, see [Tutorial: Secure Sessions](#).
- Added "contains" operator support for objects and arrays. This allows additional types of expressions such as `IN [x, y, z]` and `IN { "x": "foo", "y": "bar" }`, and also referencing field names that map to arrays and objects, such as `someArray IN $.field` and `someObject IN $.field`.

Bugs Fixed

- Added support for the parentheses-based `IN` syntax, such as `IN (x, y, z, ...)`, as defined in the X DevAPI. (Bug #26666817)

Changes in MySQL Connector/Node.js 8.0.7 (2017-07-10, Development Milestone)

MySQL Connectors and other MySQL client tools and applications now synchronize the first digit of their version number with the (highest) MySQL server version they support. This change makes it easy and intuitive to decide which client version to use for which server version.

Connector/Node.js 8.0.7 is the first release to use the new numbering. It is the successor to Connector/Node.js 1.0.6.

- [Functionality Added or Changed](#)
- [Bugs Fixed](#)

Functionality Added or Changed

- It is no longer permitted to pass an empty search condition, such as the NULL value or an empty string, to the `Collection.modify()` and `Collection.remove()` methods.
- A number of changes have been implemented for the “drop” methods:
 - The “drop” methods are now made available at the same level as the corresponding “create” methods. For example, the `dropCollection()` and `dropTable()` methods have been removed from the `XSession` class (which has now been consolidated into the `Session` class) and moved under the `Schema` class; under the same principle, the `drop()` method has been removed from the `Collection` and `Table` classes.
 - The “drop” methods now succeed even if the objects to be dropped do not exist.
 - `dropView()` is now asynchronous and behaves exactly like `dropTable()` and `dropCollection()` by implicitly executing the operation and returning a promise that will hold the result of the drop operation.
- A configuration handler interface, `mysqlx.config`, has been created for managing persisted session configurations. See [MySQL Connector/Node.js with X DevAPI](#) for details.
- There are a few changes with regard to encrypted connections to MySQL servers:
 - Connections are now encrypted by default.
 - The connection option `ssl-enable` has been replaced by the `ssl-mode` option, which has `DISABLED`, `REQUIRED` (default), and `VERIFY_CA` as its permitted values.
 - Using the `ssl-crl` option requires the use of the `ssl-ca` option and that `ssl-mode=VERIFY_CA`; this is due to an internal requirement of the Node.js core platform.
- Consolidated the `BaseSession`, `NodeSession`, and `XSession` into a single `Session` class. The following related changes were also made:
 - The `mysqlx.getNodeSession()` method is renamed to `getSession` and returns a `Session` object.
 - The `DatabaseObject.getSession()` now returns a `Session` object.
- A new client-side failover feature has been implemented: when creating a new connection, multiple hosts now can be specified in the connection string, and Connector/Node.js tries each host until a successful connection is established or until all hosts have been tried. See [Tutorial: Getting Started](#) for details
- Connector/Node.js now supports connecting to a local server using Unix sockets. See [Tutorial: Getting Started](#) for details.
- The format of the document ID value generated when adding a document to a collection has changed. It is still a string of 32 hexadecimal digits based on a UUID, but the order of digits has been changed to match the requirement of a stable ID prefix.

Bugs Fixed

- It was not possible to create a new session for a user with a SHA256 password via the PLAIN authentication mechanism. (Bug #26117627)
- The handling of large JSON arrays was problematic, and would cause an exception to be thrown. (Bug #26084604)

- Attempting to use `bind` when removing a document from a collection would not succeed, and an exception would be thrown. (Bug #26029551)
- The `Table.update()` implementation did not require a `SearchConditionStr` parameter, and not using this parameter could result in updating all the rows of a given table. A client-side exception is now thrown if the `SearchConditionStr` parameter is undefined or empty. (Bug #25993174)
- The `Table.delete()` implementation did not require a `SearchConditionStr` parameter, and not using this parameter could result in deleting all the rows of a given table. A client-side exception is now thrown if the `SearchConditionStr` parameter is undefined or empty. (Bug #25992969)

Changes in MySQL Connector/Node.js 1.0

Changes in MySQL Connector/Node.js 1.0.6 (2017-03-07, Development Milestone)

- [Functionality Added or Changed](#)
- [Bugs Fixed](#)

Functionality Added or Changed

- Added support for validating the server certificate with a given CA and/or CRL.
- Expanded support for creating TLS sessions with a URI or connection string.
- Added support for creating IPv6 sessions with a URI or connection string.
- Added support for single array or multiple argument function calls on the public API.

Bugs Fixed

- Fixed issues with `collection.bind()`. (Bug #23236379)
- Expanded support to create sessions based on unified connection strings. This also fixed parsing issues on URI and connection string corner-cases.
- Updated behavior of `collection.add([])` to avoid confusing exceptions.

Providing an empty array as an argument should always succeed, even without an active connection to the server.

Changes in MySQL Connector/Node.js 1.0.5 (2016-11-14, Development Milestone)

Functionality Added or Changed

- Added APIs for Transaction handling, which includes the `session.startTransaction()`, `session.commit()` and `session.rollback()` functions.
- Added a Table creation API.

Changes in MySQL Connector/Node.js 1.0.4 (2016-10-10, Development Milestone)

- [Functionality Added or Changed](#)

- [Bugs Fixed](#)

Functionality Added or Changed

- Changed package name from 'mysqlx' to '@mysql/xdevapi'.
- The connector can be installed into your project using Node.js's [npm](#) tool. Install from the download file by issuing:

```
npm install mysql-connector-nodejs-1.0.4.tar.gz
```

Or install directly from the npm repository by issuing:

```
npm install @mysql/xdevapi
```

For more information on [npm](#) see <http://npmjs.com>.

Bugs Fixed

- The Connector/Node.JS version number can now be retrieved from the API. For example, `"ver=require('@mysql/mysqlx/package').version,"`. (Bug #24571220)
- Added the `Schema.getCollectionAsTable()` method.
- Added the `Collection.count()` and `Table.count()` methods.
- Added support for the Common URI format.
- Added **View DDL** support.

Changes in MySQL Connector/Node.js 1.0.3 (2016-06-21, Development Milestone)

Bugs Fixed

- Connector/Node.JS was unable to create a session when SSL was enabled. (Bug #23118665)

Changes in MySQL Connector/Node.js 1.0.2 (2016-04-11, Development Milestone)

MySQL Connector/Node.js is a new Node.js driver for use with the X DevAPI. This release, v1.0.2 M1, is the first development release of the MySQL Connector/Node.js 1.0 series.

The X DevAPI enables application developers to write code that combines the strengths of the relational and document models using a modern, NoSQL-like syntax that does not assume previous experience writing traditional SQL.

To learn more about how to write applications using the X DevAPI, see [X DevAPI User Guide](#). For more information about how X DevAPI is implemented in MySQL Connector/Node.js, and its usage, see <http://dev.mysql.com/doc/dev/connector-nodejs/>.

Please note that the X DevAPI requires at least MySQL Server version 5.7.12 or higher with the X Plugin enabled. For general documentation about how to get started using MySQL as a document database, see [Using MySQL as a Document Store](#).

Functionality Added or Changed

- Internal bug fixes, and released as the first developmental milestone preview release.

Changes in MySQL Connector/Node.js 1.0.1 (Not released, Internal)

Version 1.0.1 has no changelog entries, or they have not been published because the product version has not been released.

Changes in MySQL Connector/Node.js 1.0.0 (Not released, Internal)

Version 1.0.0 has no changelog entries, or they have not been published because the product version has not been released.