ClustrixDB Version and MySQL Version Compatibility

ClustrixDB provides general compatibility with MySQL and MariaDB functionality, but does not guarantee compatibility with any particular version. For the purposes of third party tools, you can configure ClustrixDB to display a specific version.

The value for the version variable will is a concatenation of mysql_version and clustrix_version. The value for mysql_version should be set according to your compatibility needs and the clustrix_version global variable is updated automatically on database upgrade.

```
sql> select @@version;

+-------------------------------+
| @@version
| +-------------------------------+
| 5.0.45-clustrix-9.1
| +-------------------------------+
1 row in set (0.00 sec)
```

Changing the value of mysql_version may cause your application's behavior to change.

Global Variables

These are the global variables related to version.

Name	Description	Default Value
clustrix_version	Clustrix software version	<auto populated>
mysql_version	The reported MySQL server version	5.0.45
format_version	A version string indicating the version of the software when the cluster was initial created.	<auto populated>
version	The reported server version	<auto populated>

Caveats to Version Compatibility

Replication from ClustrixDB (Master) to MySQL (Slave)

ClustrixDB can replicate **to** the following versions of MySQL with the using the specified values set for mysql_version on the ClustrixDB master. See Using ClustrixDB as a Replication Master for instructions on configuration.

ClustrixDB mysql_version (master)	MySQL version (slave)			
	5.0.*	5.5	5.6	5.7
5.0	✅	✅	✅	✅
5.5	✅	✅	✅	✅
5.6	❌	✅	❌	❌
5.7	❌	❌	❌	❌

Replication from ClustrixDB to ClustrixDB is not affected by the value for mysql_version.

JDBC compatibility

Changing the MySQL value contained in version can have an impact on JDBC behavior, as JDBC will read the version and attempt to use features accordingly. ClustrixDB does not support the tx_read_only variable, which is used by JDBC when some specific MySQL values are set in version. The following chart outlines compatibility of Clustrix with different values for version and versions of JDBC:

JDBC	version 5.0.45	version 5.6.38	version 5.6.4	version 5.6.45	version 5.6.5
5.1.32	✅	Not Supported	✅	Not Supported	Not Supported
5.1.36	✅	Not Supported	✅	Not Supported	Not Supported
5.1.37	✅	✅	✅	✅	✅
5.1.40	✅	✅	✅	✅	✅

5.1.41	✅	✅	✅	✅	✅
5.1.43	✅	✅	✅	✅	✅
5.4.44	✅	✅	✅	✅	✅