Release Notes

Schooner Appliance for MySQL Enterprise™

Version 2.0

SCHOONER
INFORMATION TECHNOLOGY

Technical Support

Go to the IBM support Web site at http://www.ibm.com/systems/support/to check for technical information, hints, and tips.

Documentation ID: I-I-v2.0-10120_619-RN-002

Schooner Appliance for MySQL Enterprise™ - Release Notes

Issued November 2009.

Schooner Information Technology
501 Macara Ave., Suite 101
Sunnyvale, CA 94085, USA
Tel: (408) 773-7500 (Main)
(877) 888-5064 (Sales and Support)
Fax: (408) 736-4212

Contents

Chapter 1. Introduction

What's New in This Release

This is the first beta release of the Schooner Appliance for MySQL Enterprise™.

Register to Get Support

Go to the IBM support Web site at http://www.ibm.com/systems/support/to check for technical information, hints, and tips.

System Requirements

Network Requirements

High-speed networking. This release assumes that you have a 1Gb Ethernet network to handle application traffic

Administration System Requirements

Windows or 32-bit Linux. Graphical displays in the Schooner Administrator™ control console use Adobe Flash. In this release, the displays work well with Flash plug-ins in Windows and 32-bit Linux, but not in 64-bit Linux.

As a workaround, you may manually install the 32-bit Flash plug-in on a 64-bit Linux system, but this is not recommended. If possible, monitor and administer your Schooner system using a Windows or 32-bit Linux system.

Note: This restriction does not affect MySQL client applications, only systems that run Schooner Administrator to manage the Schooner system.

Your browser must have cookies enabled in order to run the Schooner Administrator.

Chapter 2. Known Bugs

This chapter documents known bugs and problems you may encounter, along with workarounds if available. The number in parentheses, like (#798), refers to Schooner's internal tracking number, if any.

Please note that bug fixes are not guaranteed in any specific release.

System Variables Settings (#904)

Several system variable tests failed either because they did not match the default settings or they were improperly dynamically changed:

- System variable innodb_sync_spin_loops default value does not match with the stock version.
- System variable key_buffer_size "min_key_buffer_size" value does not match with the stock version.
- System variable rpl_recovery_rank variable's valid value is larger than the stock version.
- System variable sort_buffer_size variable's valid value is larger than the stock version.
- System variable innodb_file_per_table is not a dynamic variable; attempts to set should have failed with errno 1238.
- System variable innodb_lock_wait_timeout is not a dynamic variable; attempts to set should have failed with errno 1238.

Workaround: None.

Auto-Inc and Zip Tests Fail (#907)

The following failures occurred:

- query 'INSERT INTO t1 VALUES (NULL),(NULL),(NULL),(NULL),(NULL),(NULL),(NULL)' failed: 2013: Lost connection to MySQL server during query
- query 'drop table t1, t2' failed: 2013: Lost connection to MySQL server during query

Workaround: None.

Tests failing due to small page-size

MySQL and InnoDB operate on 16kB page size and the MySQL test suite assumes this fixed page size. The Schooner implementation allows page size to be declared as a database instance tunable, allowing many workloads to leverage this optimization. The fixed nature of the page size in MySQL test suite causes failure in the execution of a few tests when using 4kB page size in Schooner. This is not due to bugs in Schooner implementation, but due to incompatibility of these tests with smaller page size. The following tests pass when Schooner page size is 16kB, but fail at 4kB:

- binlog.binlog_tbl_metadata, main.innodb, main.innodb-zip, main.innodb_bug36172, main.innodb-index
- *main.innodb_ignore_builtin*: Always fails if there are extra options provided to InnoDB while running test.
- *main.innodb_mysql:* Fails because the row number does not match in an explain query.
- *main.index_merge_innodb*: Execution plan differs.
- Main.partition_innodb: failed because row numbers and row length do not match in show table status query.
- *main.partition_tx_weight*: Deadlock us hit when trying to get lock.

Workaround: None.

Tests that fail in legacy MySQL and InnoDB

The following MySQL test-suite tests fail in legacy (MySQL v5.1.37 and InnoDB v1.0.3)

- *main.read_many_rows_innodb: Failure due to 1205 lock timeout instead of 1213 deadlock.*

Workaround: None.

Chapter 3. Planned Enhancements

The following features are not implemented in the current release, but are planned for the future. The number in parentheses, like (#550), refers to Schooner's internal tracking number, if any.

Some of these features are described in the product documentation. Please note that this documentation is preliminary, and implementation is not guaranteed when currently planned.

MySQL Master-Master Setup

The Schooner Administrator includes configuration of files for Master-Master setup. A future release will make it simpler to setup, administer and use.

Workaround: Manually set up MMM. For more information, go to http://mysql-mmm.org/.

Planned Disposition: Future Release.

MySQL Replication Reset

Current functionality changes a MySQL instance to start participating in binary log replication as a master or a slave. However the functionality to move from a master or a slave back to a stand-alone MySQL instance is not available.

Workaround: Manual update of MySQL configuration as described in MySQL manuals for binary log replication.

Planned Disposition: Future Release

Online Help

A future release will implement an online, context-sensitive help system, accessed from the right-hand panel of Schooner Administrator.

Workaround: Use the included documentation instead.

Planned Implementation: Future Release

Additional Groups

A future release will implement support for more than one Schooner Appliance group in the Schooner Administrator.

Workaround: None.

Planned Implementation: Future Release