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Altibase Shard Manager Release Notes

(Jan. 10, 2020)

1. Abstract

1.1 System Requirements

Minimum Hardware

- Computer processor: 800MHz Pentium III or better
- Computer memory: 512 MB or more
- Computer disk : 120MB or more free space
- Screen resolution : 1024 * 768 pixels or higher

1.2 Supported Operating Systems and Platforms

OS	CPU	Windows System	Bit (Client)	JRE
LINUX	x86_64	GTK	64bit	Java 6 or higher
WINDOW	x86	Win32	32bit	Java 6 or higher

2. Release Information

2.1 Altibase Shard Manager

Shard Manager is a graphical tool which enables users to manage multiple databases and shard objects for Altibase Sharding. Typically, the task of manually administrating them are complicated, time-consuming, and prone to human error. In order to relieve such burden, Shard Manager can be utilized providing qualified help for users to efficiently perform their work with only a few mouse clicks while visualizing all of them on the same screen.

2.1.1 New Features

- Supports shard table resharding
- Provides report file: shard node configuration, shard object schema and shard table record count
- Provides Command Line Interface (CLI) including Graphical User Interface (GUI)

2.1.2 Bug-Fixes

PK	SYNOPSIS
BUG-47116	In order to enhance count query performance, need to use shard view
BUG-47114	Need to check that the same DB is not already registered when registering a new node
BUG-47138	Need to provide a way to input replication address separately from DB address
BUG-47146	Add new node continues to fail due to previous add node fail
BUG-47153	Need to provide a way to set the Sync parallel option to enhance resharding performance
BUG-47147	Resharding must be parallel
BUG-47156	"Test" button is not be activated even if the input values are filled in the specific order on the Add Node screen
BUG-47179	Rplp is applied incorrectly when configuring Shard Manager by reading ShardDatabase.xml
BUG-47181	Need to remove alternate DB from node when alternate DB shutdown unexpectedly
BUG-47189	Clone table resharding should be managed by Shard Manager instead of shard procedure
BUG-47191	NEXT button may not be activated after shard database creation
BUG-47184	Shard manager needs logic to avoid distributed deadlock
BUG-47185	Need to make sure database has the properties for sharding when connecting to it
BUG-47103	Incorrect local_meta_info_ is allocated when adding a new node.
BUG-47304	To improve usability, need to remove the dependency on external procedures such as utl_shard_online_rebuild.sql
BUG-47317	Need to provide wizard for "Create Hash Table"
BUG-47417	When adding a new node or Alternate DB, need to copy shard object schema from old node
BUG-47418	Need to check the shard database has the dmbs_meta package when connecting to it
BUG-47353	Need to provide a report on the shard object and its configuration

PK	SYNOPSIS
BUG-47157	Need to test alternate DB connection if required
BUG-47440	Need to unset multiple shard objects at once
BUG-47444	[CLI] When resharding, need to enter partition name only instead of partition name and partition max
BUG-47462	[CLI] Requires resharding functionality for Clone, Solo table
BUG-47463	[CLI] Requires provide Add/remove node functionality
BUG-47464	[CLI] Requires Set / unset shard object functionality
BUG-47465	[CLI] Requires shard report functionality
BUG-47467	[CLI] Requires Create/Load/Remove ShardDb functionality
BUG-47610	When removing a shard database, need to drop the DB object registered as a shard object

2.2 Changes

Listed below are added/updated/deleted functions and their explanations for Shard Manager.

2.2.1 Version Updates

Shard Manager Version

Altibase Shard Manager Version
3.0

2.2.2 Database Compatibility

Altibase Compatibility

- Altibase database: Altibase 7.1.0.2.3 (Altibase Sharding 3.0)

2.2.3 Properties

NONE

2.2.4 Error Messages

NONE

2.3 Open Source Libraries /Royalty-Free Images Used

Shard Manager is based on the following Open Source Libraries and Royalty-Free Images. The licenses are distributed in a text file format along with Shard Manager.

Library	Open Source License
Eclipse	Homepage: http://www.eclipse.org License: Eclipse Public License (http://www.eclipse.org/legal/epl-v10.html)
Apache Commons Codec	Homepage: http://commons.apache.org/codec/ License: Apache License 2.0 (http://www.apache.org/licenses/LICENSE-2.0.txt)
Apache Commons Lang	Homepage: http://commons.apache.org/proper/commons-lang/ License: Apache License 2.0 (http://www.apache.org/licenses/LICENSE-2.0.txt)
Apache Commons IO	Homepage: http://commons.apache.org/proper/commons-io/ License: Apache License 2.0 (http://www.apache.org/licenses/LICENSE-2.0.txt)
Apache Commons CLI	Homepage: https://commons.apache.org/proper/commons-cli/ License: Apache License 2.0 (http://www.apache.org/licenses/LICENSE-2.0.txt)
Log4j	Homepage: http://logging.apache.org/index.html License: Apache License 2.0 (http://www.apache.org/licenses/LICENSE-2.0.txt)
JDOM	Homepage: http://www.jdom.org/ License: Apache-style Open Source License (http://www.jdom.org/docs/faq.html#a0030)

Library	Royalty-Free Images
16x16 Free Application Icons	Homepage: http://www.aha-soft.com
asp.net_commercial_free2	Homepage: www.asp.net
Eclipse	Homepage: www.eclipse.org
www.famfamfam.com	Homepage: www.famfamfam.com
fatcow-hosting-icons-2400	Homepage: http://www.fatcow.com/free-icons
fugue-icons-3.2.3-src	Homepage: http://code.google.com/p/fugue-icons-src/
SqlExplorer	Homepage: http://eclipsesql.sourceforge.net/

2.4 Packages

OS	CPU	Archive Name
Linux	x86_64	ShardManager-linux.gtk.x86_64.zip
Windows	x86	ShardManager-win32.win32.x86.zip

2.5 Downloads

2.5.1 Packages

<http://support.altibase.com/kr/product>

2.5.2 Manual

[https://github.com/ALTIBASE/Documents/blob/master/Manuals/Altibase 7.1/kor/ShardManager.md](https://github.com/ALTIBASE/Documents/blob/master/Manuals/Altibase%207.1/kor/ShardManager.md)

2.5.3 Installation

Please refer to the Altibase Sharding Manual.