


GemStone/S 64 BitTM

Release Notes

Special Patch Release

Version 3.2.8.2

April 2026



INTELLECTUAL PROPERTY OWNERSHIP

This documentation is furnished for informational use only and is subject to change without notice. GemTalk Systems LLC assumes no responsibility or liability for any errors or inaccuracies that may appear in this documentation.

Warning: This computer program and its documentation are protected by copyright law and international treaties. Any unauthorized copying or distribution of this program, its documentation, or any portion of it, may result in severe civil and criminal penalties, and will be prosecuted under the maximum extent possible under the law.

The software installed in accordance with this documentation is copyrighted and licensed by GemTalk Systems under separate license agreement. This software may only be used pursuant to the terms and conditions of such license agreement. Any other use may be a violation of law.

Use, duplication, or disclosure by the Government is subject to restrictions set forth in the Commercial Software - Restricted Rights clause at 52.227-19 of the Federal Acquisitions Regulations (48 CFR 52.227-19) except that the government agency shall not have the right to disclose this software to support service contractors or their subcontractors without the prior written consent of GemTalk Systems.

This software is provided by GemTalk Systems LLC and contributors "as is" and any expressed or implied warranties, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose are disclaimed. In no event shall GemTalk Systems LLC or any contributors be liable for any direct, indirect, incidental, special, exemplary, or consequential damages (including, but not limited to, procurement of substitute goods or services; loss of use, data, or profits; or business interruption) however caused and on any theory of liability, whether in contract, strict liability, or tort (including negligence or otherwise) arising in any way out of the use of this software, even if advised of the possibility of such damage.

COPYRIGHTS

This software product, its documentation, and its user interface © 1986-2026 GemTalk Systems LLC. All rights reserved by GemTalk Systems.

PATENTS

GemStone software is or has been covered by U.S. Patent Number 6,256,637 "Transactional virtual machine architecture" (1998-2018), Patent Number 6,360,219 "Object queues with concurrent updating" (1998-2018), Patent Number 6,567,905 "Generational garbage collector with persistent object cache" (2001-2021), and Patent Number 6,681,226 "Selective pessimistic locking for a concurrently updateable database" (2001-2021).

TRADEMARKS

GemTalk, **GemStone**, **GemBuilder**, **GemConnect**, and the GemStone and GemTalk logos are trademarks or registered trademarks of GemTalk Systems LLC, or of VMware, Inc., previously of GemStone Systems, Inc.

UNIX is a registered trademark of The Open Group.

Intel is a registered trademarks of Intel Corporation.

Microsoft, **Windows**, **Windows Server**, and **Azure** are registered trademarks of Microsoft Corporation.

Linux is a registered trademark of Linus Torvalds and others.

Red Hat, **Red Hat Enterprise Linux**, **RHEL**, and **CentOS** are trademarks or registered trademarks of Red Hat, Inc.

Rocky Linux is a trademark or registered trademark of Rocky Enterprise Software Foundation.

Ubuntu is a registered trademark of Canonical Ltd., Inc.

Other company or product names mentioned herein may be trademarks or registered trademarks of their respective owners. Trademark specifications are subject to change without notice. GemTalk Systems cannot attest to the accuracy of all trademark information. Use of a term in this documentation should not be regarded as affecting the validity of any trademark or service mark.

GemTalk Systems LLC
15220 NW Greenbrier Parkway
Suite 240
Beaverton, OR 97006

Release Notes for 3.2.8.2

GemStone/S 64 Bit™ 3.2.8.2 is a patch release version of the GemStone/S 64 Bit object server, fixing a critical bug in a legacy product line.

These Release Notes include changes between the previous version of GemStone/S 64 Bit, v3.2.8.1, and v3.2.8.2.

Upgrade

GemStone/S 64 Bit v3.2.8.2 contains a minor image change, in `GciLibrary class >> initializeFunctions`. While running `upgradeImage` is generally recommended, it is not strictly required when upgrading from 3.2.8.1.

When upgrading directly from v3.2.8.1 to v3.2.8.2, you may restart GemStone with the new executables without running `upgradeImage`, provided that you:

- Login as SystemUser and execute:

```
SystemRepository _setVersion
```

- Create a symlink in the 3.2.8.6 distribution for the shared library referenced by the image change.

```
chmod u+w $GEMSTONE/lib  
ln -s $GEMSTONE/lib/libgcirpc-3.2.8.2-64.so  
$GEMSTONE/lib/libgcirpc-3.2.8-64.so  
chmod u-w $GEMSTONE/lib
```

Alternatively, you can login as SystemUser and edit the method `GciLibrary class >> initializeFunctions` to use the correct path. This method is required when using `GsExternalSessions`.

Changes in this Release

Repository sweep operations may hang with oop high water mark exceeding 4 billion.

When the repository's oop number high water mark exceeded 4 billion, a number of operations that scan the entire repository, including backup, restore, MFC and write set union sweep, as well as multithreaded scan operations, could hang. (#46252).

Specifically the write set union sweep hung, preventing the garbage collection process from completing to allow space to be reclaimed. In addition, the stuck write set union sweep thread did not commit or abort, and so created a commit record backlog. (#51884)