
GemStone®

GemBuilder® for Smalltalk Release Notes

Version 5.4.1

October 2012

vmware®

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PATENTS

GemStone software is covered by U.S. Patent Number 6,256,637 "Transactional virtual machine architecture", Patent Number 6,360,219 "Object queues with concurrent updating", Patent Number 6,567,905 "Generational garbage collector with persistent object cache", and Patent Number 6,681,226 "Selective pessimistic locking for a concurrently updateable database". GemStone software may also be covered by one or more pending United States patent applications.

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About This Documentation

These release notes describe the changes in the GemBuilder® for Smalltalk version 5.4 release. This documentation is also available on the GemStone Technical Support website.

For information on installing or upgrading to this version of GemBuilder for Smalltalk, please refer to the *GemBuilder for Smalltalk Installation Guide* for version 5.4.1.

Terminology Conventions

The term “GemStone” is used to refer to the server products GemStone/S 64 Bit and GemStone/S; and may also be used to refer to the company, previously GemStone Systems, Inc., now a division of VMware, Inc.

Technical Support

GemStone Website

<http://support.gemstone.com>

GemStone’s Technical Support website provides a variety of resources to help you use GemStone products:

- ▶ Documentation for released versions of all GemStone products, in PDF form.
- ▶ Downloads and Patches, including past and current versions of GemBuilder for Smalltalk.
- ▶ Bugnotes, identifying performance issues or error conditions you should be aware of.
- ▶ TechTips, providing information and instructions that are not otherwise included in the documentation.
- ▶ Compatibility matrices, listing supported platforms for GemStone product versions.

This material is updated regularly; we recommend checking this site on a regular basis.

Help Requests

You may need to contact Technical Support directly, if your questions are not answered in the documentation or by other material on the Technical Support site. Technical Support is available to customers with current support contracts.

Requests for technical support may be submitted online, or by email or by telephone. We recommend you use telephone contact only for serious requests that require immediate attention, such as a production system down. The support website is the preferred way to contact Technical Support.

Website: <http://techsupport.gemstone.com>

Email: techsupport@gemstone.com

Telephone: (800) 243-4772 or (503) 533-3503

If you are reporting an emergency by telephone, select the option to transfer your call to the Technical Support administrator, who will take down your customer information and immediately contact an engineer. Please also open a ticket on the website, and include error and log information. Non-emergency requests received by telephone will be placed in the normal support queue for evaluation and response.

When submitting a request, please include the following information:

- ▶ Your name, company name, and GemStone server license number.
- ▶ The versions of all related GemStone products, and of any other related products, such as client Smalltalk products.
- ▶ The operating system and version you are using.
- ▶ A description of the problem or request.
- ▶ Exact error message(s) received, if any, including log files if appropriate.

GemStone Technical Support is available from 8am to 5pm Pacific Time, Monday through Friday, excluding VMware/GemStone holidays.

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GemStone Technical Support offers, at an additional charge, 24x7 emergency technical support. This support entitles customers to contact us 24 hours a day, 7 days a week, 365 days a year, for issues impacting a production system. For more details, contact your GemStone account manager.

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Release Notes for GemBuilder for Smalltalk 5.4.1

GemBuilder for Smalltalk (GBS) version 5.4.1 is a new version of the GemBuilder for Smalltalk product, adding support for GemStone/S 64 Bit version 3.1.x and VA Smalltalk 8.5.2. Please take time to read through these release notes before installing or upgrading, to acquaint yourself with the changes.

These release notes provide changes between the previous version of GBS, version 5.4, and version 5.4.1. If you are upgrading from a version prior to 5.4, please also review the release notes for each intermediate release to see the full set of changes.

GemStone/S 64 Bit version 3.0 was a substantial redesign from 2.x server versions; GBS 5.4 includes many internal changes to support 3.0 and later. As a result, this release cannot be used with versions of GemStone/S 64 Bit before 3.0; nor can it be used with 32-bit GemStone/S. Support for these servers is provided in separate releases.

This release does not support VisualWorks; VisualWorks is supported by separate set of releases of the GBS product.

For details on supported client platforms, see 'Supported Platforms and Versions' below.

To install GemBuilder for Smalltalk 5.4.1, follow the instructions in the *GemBuilder for Smalltalk Installation Guide* for version 5.4.1.

Supported Platforms and Versions

The following tables describe the client Smalltalk versions and platforms supported by GBS 5.4.1, and the GemStone/S 64 Bit 3.x server product shared library versions that can be used with each.

GemBuilder for Smalltalk v5.4.1 supports GemStone/S 64 Bit 3.x only, and cannot be used with 32-bit GemStone/S or with GemStone/S 64 Bit v.2.x.

Only RPC logins are supported with VA Smalltalk.

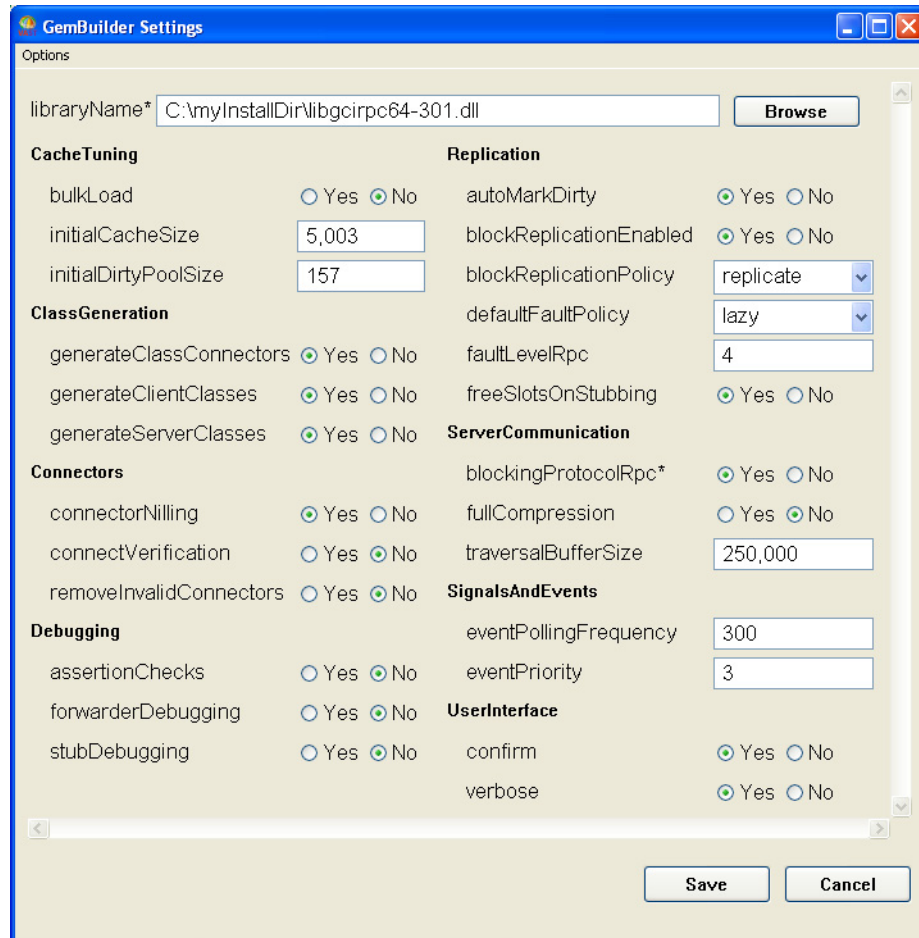
Table 1 Supported GemStone/S 64 Bit Server versions - RPC logins only

	VA Smalltalk 8.5.2	VA Smalltalk 8.5	VA Smalltalk 8.0.3
Windows Server 2008 (64-bit)	3.1.0.1	3.1.0.1	3.1.0.1
Windows 7 (64-bit)	3.1.0.1	3.1.0.1	3.1.0.1
Windows XP, SP 1 or later (32-bit)	3.1.0.1	3.1.0.1	3.1.0.1

Changes in this release

Simplified Settings Tool

The settings tool, used to view and update GBS configuration parameters, was outdated, complicated, and difficult to use. This has been radically simplified, to a single page containing all configuration parameters with easy visual cues for the current settings.



Some key features of this tool:

- ▶ Hover help is available for the individual configuration parameters.
- ▶ Settings that have been altered from the default are displayed with an asterisk (*).
- ▶ The options menu provides choices to revert to default and to open a text view on the configuration.

Shared library file selection

The new settings tool provides the option to Browse for the server shared library. This does not require that the shared library be on a directory in the %PATH%.

Improved format in class hierarchy view

The display for class hierarchy in the browsers has been made more readable and useful.

Bugs Fixed

Connectors that failed to connect on login caused problems

If a class connector failed to connect on login, it could result in problems. If the failed connector was a class connector and not removed after the connect failed, a subsequent Create in GS could create the class twice. Other problems could also exist, including in cases where the failed connector was removed. (#41722, #41717)

Versioning a class from template did not get migrate query

When a class is created that is a version of an existing class, it should bring up a dialog asking if the user wants to migrate instances. This occurred when editing an existing class in the browser, but not when editing the new class template. (#41727)

Invocations of deprecated server methods

As of v3.x, a number of GemStone/S 64 bit v3.x server methods have been deprecated. GBS code that interfaces to the server has been reviewed and calls, directly or indirectly, to these methods have been updated. (#42541)