GemStone®

GemBuilder for Smalltalk Release Notes

Version 7.3.1

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GemStone™

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PATENTS

GemStone is covered by U.S. Patent Number 6,256,637 “Transactional virtual machine architecture”, Patent Number 6,360,219 “Object queues with concurrent updating”, and Patent Number 6,567,905 “Generational Garbage Collector”. GemStone may also be covered by one or more pending United States patent applications.

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Chapter 1

Release Notes for GemBuilder for Smalltalk 7.3.1

GemBuilder for Smalltalk (GBS) version 7.3.1 is a new version of the GemBuilder for Smalltalk product, providing a key bug fix required for running with the latest version of GemStone/S 64 Bit.

These release notes provide changes between the previous version of GBS, version 7.3, and version 7.3.1. If you are upgrading from a version prior to 7.3, please also review the release notes for each intermediate release to see the full set of changes.

This release supports VisualWorks 7.x. It does not support VisualWorks 5i or VA Smalltalk; support for these is provided in separate releases. This release supports both the GemStone/S 64 Bit 2.x product, using the Single-trip interface, and 32-bit GemStone/S, using the Multi-trip interface. It is not usable with versions of GemStone/S 64 Bit earlier than 2.2.5. For details on supported client platforms, see 'Supported Platforms and Versions' below.

To install GemBuilder for Smalltalk 7.3.1, follow the instructions in the *GemBuilder for Smalltalk Installation Guide* for version 7.3.1.

Supported Platforms and Versions

The following tables describe the client Smalltalk versions and platforms supported by GBS 7.3.1, and the GemStone server product shared library versions that can be used with each.

GemBuilder for Smalltalk version 7.3.1 supports both GemStone/S, the original 32-bit GemStone object server, and GemStone/S 64 Bit, the 64-bit GemStone/S-based object server. The following tables list the supported client operating system, client Smalltalk, and GemStone server version configurations for both GemStone server products.

Table 1 Supported 32-bit GemStone/S Server versions

	VW 7.7 32-bit with 7.7 OE	VW 7.6 32-bit with 7.6c OE
32-bit Windows 7; 32-bit Windows Vista	6.5.7	
32-bit Windows Server 2003 Std Edition, SP1 or later; 32-bit Windows XP, SP 1 or later	6.5.7	6.5.7
Red Hat Linux ES 5.0	6.5.7	6.5.7
Solaris 10 on Sparc; Solaris 9 on Sparc	6.5.7	6.5.7

Table 2 Supported GemStone/S 64 Bit Server versions - RPC logins only

	VW 7.7 32-bit with 7.7 OE	VW 7.6 32-bit with 7.6c OE
64-bit Windows 7	2.4.4	
32-bit Windows 7	2.4.4, 2.3.1.6	
32-bit Windows Vista; 32-bit Windows Server 2003 Std Edition, SP1 or later; 32-bit Windows XP, SP 1 or later	2.4.4, 2.3.1.6	2.4.4, 2.3.1.6
SUSE Linux ES 10; Red Hat Linux ES 5.0	2.4.4, 2.3.1.6	2.4.4, 2.3.1.6
Solaris 10 on Sparc; Solaris 9 on Sparc	2.4.4	2.4.4
HPUX 11.11 on HP9000	2.4.4, 2.3.1.6	2.4.4, 2.3.1.6

Table 3 Supported GemStone/S 64 Bit Server versions - Linked or RPC logins
Linked logins require 64-Bit VisualWorks Smalltalk clients

	VW 7.7 64-bit with 64-bit 7.7 OE
SUSE Linux ES 10; Red Hat Linux ES 5.0	2.4.4
Solaris 10 on Sparc	2.4.4

Bugs Fixed

The following bug has been fixed since GemBuilder for Smalltalk version 7.3:

Incorrect handing of stubbed objects with unconnected classes

GemStone/S 64 Bit version 2.4.4 or later only

In some cases with unconnected classes, attempting to unstub a stubbed object may have resulted in the error "Message not understood - instancesAreForwarders". (#40751)

This bug is in the handling of Singletrip traversal results, and only occurs with GemStone/S 64 Bit version 2.4.4 or later. This bug was exposed by the fix in GemStone/S 64 Bit version 2.4.4 for server bug 40703 - Possible hot hang in Singletrip traversal from GBS.