
GemStone®

GemBuilder for Java™ *Release Notes*

Version 2.3

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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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GemBuilder for Java

2.3 Release Notes

GemBuilder for Java (GBJ) version 2.3 is a new release of the GemBuilder for Java product, providing a fix for a critical bug.

This version of GemBuilder for Java supports all GemStone Smalltalk server product lines, including GemStone/S 6.x and GemStone/S 64 Bit versions 1.x and 2.1.

These release notes provide details of the changes in this release. Please take time to read through them before installing the product, to acquaint yourself with the changes. If you are upgrading from a version earlier than 2.2, please refer to the Release Notes for each intermediate release as well.

To install GemBuilder for Java version 2.3, follow the instructions in the GemBuilder for Java Installation Guide for 2.2, noting the change below.

Installation Guide Changes

The fix for bug #36357, “Sessions may have disconnected and deadlocked”, required a call to a Java entry point that was introduced in the Java Developer’s Kit (JDK) version 1.5. This release of GemBuilder for Java has the following change in System Requirements:

Java

- ▶ A Java development environment, 1.5 or later. This release is based on Java Developer’s Kit (JDK) version 1.5.0_08.

For complete System Requirements and full instructions on installing GemBuilder for Java, refer to the *GemBuilder for Java Installation Guide* for version 2.2.

Changes

The GbjSession following fields are no longer public fields; they must be accessed via the added accessor methods:

- the field `format` is replaced by `format()`
- the field `connected` is replaced by `connected()`
- the field `sessionId` is replaced by `sessionId()`

Bugs Fixed

The following bug has been fixed since GemBuilder for Java 2.2:

Sessions may have disconnected and deadlocked

A thread safety bug allowed the transport layer to lose track of a request, and shutdown as a result.

In addition, the shutdown logic had a risk of deadlocking. (#36357)