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GemStone®

# *GemStone/S* *Release Notes*

Version 6.5.1

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GEMSTONE <sup>TM</sup>

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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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### **GemStone Systems, Inc.**

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# *GemStone/S 6.5.1*

## *Release Notes*

### **Overview**

GemStone/S 6.5.1 is a new version of the GemStone Smalltalk object server. This release provides fixes for several significant bugs. We recommend everyone using GemStone/S upgrade to version 6.5.1.

These release notes provide changes between the previous version of GemStone/S, version 6.5, and version 6.5.1. If you are upgrading from a version prior to 6.5, please also review the release notes for each intermediate release to see the full set of changes.

Note that changes to Character collation in version 6.2 affect GemStone indexes. Upgrades from 6.1.6 or earlier to 6.2 or later require index rebuild, if Characters beyond basic ASCII are involved.

No separate Installation Guide is provided with this release. For installation instructions, use the Installation Guide for version 6.5.

This release supports Solaris, Linux, AIX, and Windows.

### **Technical Support**

GemStone Technical Support has a new Help Request system. Customers with support agreements are invited to submit Help Requests to:

<http://techsupport.gemstone.com>

## Changes and New Features

### New method to force tranlog creation

A new method has been added to force the creation of a new tranlog, in the case where this would otherwise fail due to a long running checkpoint.

```
Repository >> forceStartNewLog
```

This method is similar to `Repository >> startNewLog`, but if a checkpoint is in progress, the session will block while the stone immediately completes the checkpoint, then creates the new log.

### Added Cache Statistics

The following statistics have been added:

**OopNumHighWaterMark** (Stone)

The highest number of object identifiers allocated by the system.

**CheckpointState** (Stone)

If if this statistic is 0, it means no checkpoint is active. Values of 1-20 indicate internal stages of a checkpoint.

## Bugs Fixed

The following bugs in GemStone/S 6.5 have been fixed in GemStone/S 6.5.1:

### Slow backup performance

Programmatic backup ran many times slower in version 6.5 than in previous versions. (#40015).

### Stone stop failures

*Windows only*

Shutting down a stone service via stone stop command or by using the services panel did not work correctly. (#39982)

### Error in RcIdentityBag >> deepCopy

Executing `deepCopy` on an instance of `RcIdentityBag` resulted in an error due to uninitialized internal components (#39957)

### Incorrect messages during upgrade

*Windows only*

The `upgradeImage` script used on windows was not updated correctly, and referred to 6.3 instead of 6.5. (#39984)