# GemStone/S 64 Bit<sup>TM</sup> Release Notes

Limited Distribution Special Release

**Version 3.5.1.2** 

July 2020



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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).

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Chapter

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# GemStone/S 64 Bit 3.5.1.2 Release Notes (Limited Distribution Special Release)

#### Overview

GemStone/S 64 Bit 3.5.1.2 is a new limited distribution special release version of the GemStone/S 64 Bit object server, fixing several critical issues.

These Release Notes provide changes between the previous version of GemStone/S 64 Bit, version 3.5.1.1, and version 3.5.1.2. If you are upgrading from a version prior to 3.5.1.1, review the release notes for each intermediate release to see the full set of changes.

## **Supported Server and Client Platforms**

This limited distribution release includes distributions for Linux and Windows client only.

#### **VSD Version**

The GemStone/S 64 Bit v3.5.1.2 distribution includes VSD v5.5. This version includes a number of new features and bug fixes. See the <u>Release Notes for VSD v5.5</u> for details.

# **Changes in this Release**

#### Memory leaks in NetLDI

There were several memory leaks that occurred on requests to the NetLDI.

When not running in guest mode, there was a 16 bytes per-request leak in v3.4.x and v3.5.x. In all NetLDI modes in v3.5.x, there was a 2k byte per-request leak. (#48875)

## Unnecessary LDAP calls from NetLDI in guest mode

When the NetLDI is in guest mode, it does not need to authenticate the host user that is connecting. However, it was making calls to perform the validation, which created unnecessary calls to LDAP. Now, this validation call is not performed by the NetLDI. (#48427)

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# **Timeouts during RPC GCI logins**

When logging in an RPC client, where the Gem and client are on separate hosts over a slower connection, the timeouts in some phases of the login process were not correct, resulting in occasional unnecessary login failures. (#48793)

# **GemStone revision numbering**

GemStone internal development has moved from SVN to Git. Build numbers within the GemStone product (such as log file headers) that previously showed the 5-digit revision, now include the Git SHA; for completeness the entire 40 characters are included.

For example:

3.5.1.2 COMMIT: 2020-07-10T00:03:54-07:00 b62e2edaa3fb9932096750d88cb408cb7a6e118f

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