



Avere OS 4.8.7.2 Release Notes

2018-07-25

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New in Avere OS 4.8.7.2

Resolved Issues

Filesystem

- 23895 This resolves an issue where client calls to fetch SMB ACLs were causing recursive forwarding between FXT nodes due to an internal file-operation-routing loop.
- 24506 Resolved an issue where client read-ahead requests would be received out of order and the FXT read calls were not being sent to the core filer.

New in Avere OS 4.8.7.1

New Features and Enhancements

Dashboard Throughput Chart Shows 30 Minutes by Default

The default period setting for the statistics chart on the Avere Control Panel Dashboard has been changed from five minutes to thirty minutes. If you have not customized the time period, the Dashboard graph will show cluster throughput over the most recent 30 minutes. Also, the "Cluster Wide" option to show comparison data on the chart been removed.

Resolved Issues

Cloud Object Store

- 25673 Updated logic in a check for ensuring metadata quality – before this change, the metadata check could return incorrect values if a file create attempt was made on an existing file.
- 25688 Improved cold read performance for small files on a cloud core filer.
- 25708 Updated the system that deletes old snapshots to properly handle a snapshot that has been deleted from a subset of the cluster's nodes.
- 25759 Fixed a database compatibility issue that could cause a problem while upgrading from Avere OS version 4.6 or earlier to version 4.8.
- 25823 Added resource usage bounds to prevent a deadlock when removing large files. Before this fix, it was possible for the system to stop responding under heavy remove loads, requiring a restart.
- 25932 Fixed a system restart that sometimes occurred when new directory entries were added to a very large directory.

Filesystem

- 25451 Restricted the wait time during shutdown while waiting for transactions to flush from the system. If transactions have not cleared in a reasonable amount of time (currently five minutes), the system now forcefully restarts and records debugging information in case it is needed.
- 25499 Corrected the method for repopulating a migrated subdirectory in the filesystem. This change prevents the use of a stale junction after a data migration and junction refresh.
- 25702 This change ensures that any items placed on the "out of sync" list during a FlashMove or FlashMirror job are correctly recorded on both the primary node and the mirror node.
- 25842 Fixed a bug that could cause problems flushing metadata when the associated directory is marked to be checked due to possible inconsistency.
- 25880 Improved cloud read-ahead efficiency when non-default manual settings are used for aggressive read-ahead ("rollingRAworkers" setting) or cloud first segment ("firstSegmentBytes" setting).
- 25924 Replaced the process used to repair inconsistencies in the cloud object version database. Before this change, minor inconsistencies could cause a reboot loop because the repair process failed.

General

- 25521 Replaced a missing label on the snapshot policy selector in the Avere Control Panel Core Filer Details page.
- 25569 Fixed a syntax error related to custom settings and support uploads.

Management

- 25697 Changed code to prevent excessive logging of recoverable errors for internal management protocols.

NFS

- 23167 This change allows NFS client access to cloud filesystems containing SMB ACLs in the case where the files and directories contain only Windows SID identity (and not POSIX UID/GID identity).

This situation typically occurs when files and directories are created by SMB clients and RFC2307 attributes are not available at create time.

Windows-only SID identity is persisted in the following cases:

- A file or directory is created and the user creating the object does not have a POSIX UID assigned.
- A file or directory is created and the primary group of the user creating the object does not have a POSIX GID assigned.
- A file or directory Access Control List (ACL) is set and an ACE (Access Control Entry) contains a SID that does not have a POSIX UID or GID assigned.
- A file or directory is created and an inherited ACE from the parent directory does not have a POSIX UID or GID assigned.

This new behavior is enabled by default for clusters created using Avere OS 4.8.7.1 or later. Preexisting clusters can enable the behavior by using a custom setting. Contact Avere Global Services for assistance.

AD nested group membership is not evaluated for NFS client access. See 25632 below.

SMB/CIFS

- 24797 This change prevents a filesystem service restart and associated core file when SMB/CIFS ACL subdirectory junctions are created or modified and the target does not already exist.
- 25632 This change enables AD nested group membership evaluation for NFS clients when enabled for cloud CIFS ACL junctions. It also permits AD nested group membership evaluation for POSIX mode bit junctions when the “extended groups” feature is enabled.
- 25731 This update addresses a defect where SMB previous versions of files or directories are reported with invalid timestamps. The defect is most easily observed when a client has a long-lived SMB TCP connection to the Avere cluster while new snapshots are generated.

A potential workaround exists for builds without this change, but it cannot be used in all types of core filers:

- The workaround applies to Avere cloud core filers and NetApp core filers.
- The workaround does not apply to Isilon or Oracle ZFS core filers.

The workaround involves a custom setting. Contact Avere Global Services for assistance applying the setting.

Previous Avere OS Updates

For information about previous Avere OS changes in version 4.8, consult these earlier release notes:

- [Avere OS 4.8.6.1 Release Notes](#)
- [Avere OS 4.8.4.3 Release Notes](#)

Release notes for Avere OS versions before version 4.8 are available from the Avere Systems documentation home page, http://library.averesystems.com/#release_notes.

Contact Support - Avere Global Services

Support can be reached by web, phone, or email.

By web: <http://www.averesystems.com/support>

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