

Technical Support Bulletin

Spectrum Scale File Truncation Bug Can Cause Silent Data Corruption



ALERT! An IBM Spectrum Scale file truncation bug on file open can cause silent data corruption.

Issue Summary

IBM has identified a problem in Spectrum Scale that may affect DDN GRIDScaler customers.

When certain versions of Spectrum Scale open a file with the O_TRUNC flag from a different node than that from which the file was created, the O_TRUNC flag fails to take effect and the file is not truncated as expected. Prior content in the file is not erased and file size does not return to zero.

Because of the missing truncation, the file may become larger than expected. Any append to the file may be done at an incorrect location. Subsequent writes may only partially overwrite data that should have been erased by the truncate operation, resulting in undetected data corruption.

For details, please refer to the IBM Support alert at https://www.ibm.com/support/pages/node/6558502?myns=s033&mynp=OCSTXKQY&mync=E&cm_sp=s033--OCSTXKQY--E.

ALERT! If you are running an affected version of IBM Spectrum Scale with DDN GRIDScaler, **please contact IBM immediately** to obtain an eFix.

Affected Products

This issue affects IBM Spectrum Scale versions 5.1.2.0 to 5.1.2.3 and 5.1.3.0.

The last version of Spectrum Scale shipped with GRIDScaler was 5.1.1-3, which is not affected by this issue. However, customers who have upgraded Spectrum Scale to an affected version may be at risk of silent data loss.

Resolution

Please contact IBM directly to obtain an eFix. Relevant APAR numbers are provided in the IBM Support alert above. If you need further assistance, contact DDN Support.

Contacting DDN Technical Support

Please contact DDN Technical Support at any time if you have questions or need assistance. Support can be reached on the web, by email, or by phone as listed below.

Web

DDN Community Support Portal <https://community.ddn.com/login>
Portal Assistance webportal.support@ddn.com

Email

Support Email support@ddn.com

Telephone

DDN Support Worldwide Directory <https://www.ddn.com/support/global-services-overview/>

Bulletins & Notices

Support Bulletins <http://www.ddn.com/support/technical-support-bulletins>
End-of-Life Notices <http://www.ddn.com/support/end-of-life-notices>
Release Notes <https://community.ddn.com/login>
TSB Subscription Requests support-tsb@ddn.com