

# GRIDScaler<sup>™</sup>

## Data Integrity Fixes in Spectrum Scale 4.2.3.5 PTF

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**ALERT!** Spectrum Scale 4.2.3.5 is a recommended upgrade for customers who have installed GRIDScaler versions 3.2.4 or 4.2.0.

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### Recommended Upgrade

IBM recently released Spectrum Scale 4.2.3.5, which addresses several important issues in Spectrum Scale 4.2.3.x, including multiple data integrity issues. This is a cumulative release that includes fixes from Spectrum Scale 4.2.3.1, 4.2.3.2, 4.2.3.3, and 4.2.3.4 as well as 4.2.3.5. These issues affect unpatched installations of GRIDScaler 3.2.4 (which integrates Spectrum Scale 4.2.3.2) and GRIDScaler 4.2.0 (which integrates Spectrum Scale 4.2.3.0).

A PTF that will upgrade your GRIDScaler system to Spectrum Scale 4.2.3.5 is available from DDN for customers who have installed DDN GRIDScaler versions 3.2.4 or 4.2.0.

DDN recommends that all GRIDScaler 3.2.4 and 4.2.0 customers apply the PTF.

### Resolved Data Integrity Issues

The 4.2.3.5 PTF resolves the following GRIDScaler data integrity issues previously reported in DDN Support bulletins. These issues affect unpatched versions of both GRIDScaler 3.2.4 and 4.2.0.

- **An error in the file system metadata scanning function** could result in silent file system data corruption or metadata corruption in GRIDScaler 3.2.4 or 4.2.0. This issue was corrected in Spectrum Scale 4.2.3.4, and the PTF for that release was made **MANDATORY** for users of

GRIDScaler 3.2.4 or 4.2.0. That fix is included in Spectrum Scale 4.2.3.5. If you did not apply the PTF for 4.2.3.4, you should apply PTF 4.2.3.5 now instead. This will satisfy the mandatory upgrade requirement.

- **The AFM (active file management) feature** of GPFS and Spectrum Scale may not completely transfer writes from the AFM cache to the home location of a file, thereby corrupting data in the home location. This issue is resolved in PTF 4.2.3.5. (Note that this issue does not affect users who have not implemented AFM.)

Also resolved are the following data integrity issues affecting both GRIDScaler 3.2.4 and 4.2.0:

- **A memory corruption issue could occur during or after a reconnect.**
- **Offline `mmfsck` did not repair all indirect block replicas** in reserved files. This could lead to more corruptions during filesystem use.
- **In AFM, incorrect entries in the prefetch list file caused directory block corruption** because AFM permitted invalid filenames such as '.' and '..' to be created without validation of the input. (This issue does not affect users who have not implemented AFM.)

## Other Resolved Issues

Various issues with asserts, long waiters, stale NSD information, remote procedure calls (RPCs), multi-threading deadlocks and other deadlocks, race conditions, segmentation faults, kernel crash conditions, a memory leak, performance degradation, several AFM issues, and multiple snapshot issues that affect both GRIDScaler 3.2.4 and GRIDScaler 4.2.0 are also resolved in this PTF. Please refer to the [IBM Spectrum Scale 4.2.3.5 Release Notes](#) for details.

Upgrade planning assistance is available to DDN Support customers at no extra charge. Please contact DDN Support to request upgrade planning.

## Contacting DDN Technical Support

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

### Web

DDN Community Support Portal  
Portal Assistance

<https://community.ddn.com/login>  
[webportal.support@ddn.com](mailto:webportal.support@ddn.com)

### Telephone

DDN Support Worldwide Directory

<http://www.ddn.com/support/contact-support>

### Email

Support Email

[support@ddn.com](mailto:support@ddn.com)

**Bulletins**

*Support Bulletins*

*End-of-Life Notices*

*Bulletin Subscription Requests*

<http://www.ddn.com/support/technical-support-bulletins>

<http://www.ddn.com/support/end-of-life-notices>

[support-tsb@ddn.com](mailto:support-tsb@ddn.com)