

MEDIAScaler™

Silent Data Corruption Issue with Small Files in Heavy Threaded Workloads

ALERT! MEDIAScaler customers are advised to upgrade to version 2.3.3 (Samba version 4.6.11) at their earliest convenience to prevent data risk.

Issue Summary

Certain Samba versions packaged with MEDIAScaler introduced a bug that can cause silent data corruption in heavy threaded workloads. Such workloads are typically encountered when a very large number of small files is transferred in a batch from a client to the DDN storage. Only a subset of the transferred files are affected. A hexadecimal dump of the affected files will show corruption in the first 8 or 16 bytes.

This bug has been traced to a race condition in the threaded event (**tevent**) code of the main Samba daemon (**smbd**).

Affected Products

Samba versions 4.6.0 through 4.6.8 and version 4.7.0 are affected by this bug.

Resolution

This data corruption issue is resolved in Samba version 4.6.11. Although earlier versions of Samba also address the data corruption issue, only version 4.6.11 is supported by MEDIAScaler because it

addresses two important security vulnerabilities as well: CVE-2017-14746 (heap pointer use-after-free) and CVE-2017-15275 (server heap memory information leak).

Samba version 4.6.11 is bundled with MEDIAScaler 2.3.3. DDN advises MEDIAScaler customers to upgrade at their earliest convenience.

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

Telephone

DDN Support Worldwide Directory

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

Email

Support Email

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