

IBM TotalStorage® DS8700 Disk Storage 1 Microcode Bundle 76.20.109.0 v1 Release Note Information

Release Date: October 26, 2012

VRMF Level Data Results:

VRMF level From:	76.20.107.0
VRMF Level To:	76.20.109.0
Report for:	Model 941

Code Bundle Contents

DS800 Code Bundle Level	SEA or LMC Version: Used with dscli <i>ver</i> command.	CLI Client Level	Storage Manager Code Level
76.20.107.0	6.6.20.400	5.6.20.390	5.6.20.1159

Overview of new features and functions supported by Microcode Release 76.20.107.0 for DS8700 , 242x model 941.

At a glance:

none

This is a new microcode release only supports the DS8800.

Select Modifications Included in this Release Note:

This is a list of some modifications contained across one or more LIC (License Internal Code) or microcode release(s). The potential impact is variable. Specific environments may aggravate or degrade the potential impact. Problem(s) fixed and reported in this release note may not be in higher levels of code bundles.

Definition of Problem Severity:

- 1 HIPER - Acute: An irrecoverable error with potential loss of data.
- 2 High Impact - Serious: An irrecoverable error with potential loss of access to data.
- 3 Moderate - A function not operational and/or performance might be degraded.
- 4 Service - A recoverable error (no impact) and service improvements.
- 5 Improvements - Improvement changes for better Usability and Serviceability.

Pervasive: Problems with 3 or more occurrences

IBM TotalStorage® DS8700 Disk Storage 2

Microcode Bundle 76.20.109.0 v1 Release Note Information

Acute: An irrecoverable error with potential loss of data.

None

Serious: An irrecoverable error with potential loss of access to data.

None

Moderate: A system path is not operational and performance might be degraded.

Global mirror fatal error is possible with FlashCopy revertible pairs

- 1. Problem Description:** When there are network issues and FlashCopy was established revertible option then Global Mirror can experience a fatal error due to a microcode error
- 2. Potential Impact of Problem:** Global Mirror suspend
- 3. Problem Severity:** Moderate
- 4. Pervasive Problem:** No

ID#: 274483

PPRC suspend caused when microcode logic error detects no buffers

- 1. Problem Description:** A microcode logic error incorrectly indicates zero buffers are available on the host adapter. This can occur on direct attached PPRC paths.
- 2. Potential Impact of Problem:** PPRC suspend, PPRC path failures
- 3. Problem Severity:** Moderate
- 4. Pervasive Problem:** Yes

ID#: 273044

Service: A recoverable error, Service improvements.

PPRC command reject can result in a warmstart

- 1. Problem Description:** On a highly utilized PPRC link a command reject result in a warmstart due to a microcode logic error
- 2. Potential Impact of Problem:** warmstart
- 3. Problem Severity:** Service
- 4. Pervasive Problem:** No

ID#: 275799

Destage of cache data can encounter a microcode logic error

- 1. Problem Description:** Due to a microcode logic error a warmstart can occur during cache destage. This error will result in a warmstart
- 2. Potential Impact of Problem:** warmstart
- 3. Problem Severity:** Service
- 4. Pervasive Problem:** Yes

ID#: 273131

Improvements: Improvement for better usability

None

IBM TotalStorage® DS8700 Disk Storage

Microcode Bundle 76.20.109.0 v1 Release Note Information

3

Trademarks

The following terms are trademarks of the International Business Machines Corporation in the United States, other countries, or both.

- > AIX
- > Enterprise Storage Server
- > ESCON
- > FICON
- > i5/OS
- > iSeries
- > IBM
- > pSeries
- > S/390
- > System Storage
- > TotalStorage
- > z/OS
- > zSeries

IBM, the IBM logo, and [ibm.com](http://www.ibm.com) are trademarks or registered trademarks of International Business Machines Corp., registered in many jurisdictions worldwide. Other product and service names might be trademarks of IBM or other companies. A current list of IBM trademarks is available on the web at Copyright and trademark information at <http://www.ibm.com/legal/us/en/copytrade.shtml>.

Adobe, the Adobe logo, PostScript, and the PostScript logo are either registered trademarks or trademarks of Adobe Systems Incorporated in the United States, and/or other countries.

Java and all Java-based trademarks and logos are trademarks or registered trademarks of Oracle and/or its affiliates.

Linux is a trademark of Linus Torvalds in the United States, other countries, or both.

Microsoft, Windows, and Windows NT are trademarks of Microsoft Corporation in the United States, other countries, or both.

© Copyright IBM Corp. 2004, 2011

Notices

This information was developed for products and services offered in the U.S.A. IBM may not offer the products, services, or features discussed in this document in other countries. Consult your local IBM representative for information on the products and services currently available in your area. Any reference to an IBM product, program, or service is not intended to state or imply that only that IBM product, program, or service may be used. Any functionally equivalent product, program, or service that does not infringe any IBM intellectual property right may be used instead. However, it is the user's responsibility to evaluate and verify the operation of any non-IBM product, program, or service.

IBM may have patents or pending patent applications covering subject matter described in this document. The furnishing of this document does not give you any license to these patents. You can send license inquiries, in writing, to:

IBM Director of Licensing
IBM Corporation
North Castle Drive
Armonk, NY 10504-1785
U.S.A.

IBM TotalStorage® DS8700 Disk Storage 4

Microcode Bundle 76.20.109.0 v1 Release Note Information

The following paragraph does not apply to the United Kingdom or any other country where such provisions are inconsistent with local law:

INTERNATIONAL BUSINESS MACHINES CORPORATION PROVIDES THIS PUBLICATIONS "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Some states do not allow disclaimer of express or implied warranties in certain transactions, therefore, this statement may not apply to you.

This information could include technical inaccuracies or typographical errors. Changes are periodically made to the information herein; these changes will be incorporated in new editions of the publication. IBM may make improvements and/or changes in the product(s) and/or the program(s) described in this publication at any time without notice.