

# **IBM System Storage - DS8870 Disk Storage**

## **Microcode Bundle 87.20.220.0 Release Note Information v1**

1

**Release Date: November 18 , 2013**

### **VRMF Level Data Results:**

<b>VRMF level From:</b>	<b>New Release – no previous releases</b>
<b>VRMF Level To:</b>	<b>87.20.220.0</b>
<b>Report for:</b>	<b>All DS8870</b>

## **Code Bundle Contents**

This table includes code component reference information.

<b>DS8870 Code Bundle Level</b>	<b>SEA or LMC Version:</b>	<b>DS CLI Client</b>	<b>Easy Tier Client</b>	<b>STAT Tool</b>	<b>Heat Map Transfer Utility</b>	<b>Storage Manager</b>
<b>87.20.220.0</b>	<b>7.7.20.582</b>	<b>7.7.20.582</b>	<b>7.7.20.582</b>	<b>7.7.20.582</b>	<b>7.7.20.582</b>	<b>5.7.20.124</b>

Overview of new features and functions supported by this release on DS8870, 242x model 961

### **At a glance:**

- Introduction of P7+ processors
- Flash Optimization for all SSD systems with P7+ processors
- Support for NIST SP 800-131a
- Enhanced Business Class configurations
- Support for 1.2 TB 10K and 4 TB 7.2K drives

**This is a new microcode release only supports the DS8870.**

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

**HIPER: High Impact problem that is Pervasive: 3 or more occurrences**

2

**IBM System Storage - DS8870 Disk Storage**  
**Microcode Bundle 87.20.220.0 Release Note Information v1**

**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.**

None

**Service: A recoverable error, Service improvements.**

None

**Improvements: Improvement for better usability**

None

# **IBM System Storage - DS8870 Disk Storage**

## **Microcode Bundle 87.20.220.0 Release Note Information v1**

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 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 System Storage - DS8870 Disk Storage**

## **Microcode Bundle 87.20.220.0 Release Note Information v1**

4

**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.