IBM System Storage - DS8880 Disk Storage
Microcode Bundle 88.0.153.0 Release Note Information v1

Release Date: December 6, 2015

VRMF Level Data Results:

<table>
<thead>
<tr>
<th>VRMF level From:</th>
<th>New version - no previous releases</th>
</tr>
</thead>
<tbody>
<tr>
<td>VRMF Level To:</td>
<td>88.0.153.0</td>
</tr>
<tr>
<td>Report for:</td>
<td>DS8884 Business Class</td>
</tr>
</tbody>
</table>

Code Bundle Contents

<table>
<thead>
<tr>
<th>DS8880 Code Bundle Level</th>
<th>SEA or LMC Version:</th>
<th>DS CLI Client</th>
<th>STAT Tool</th>
<th>Heat Map Transfer Utility</th>
<th>Storage Manager</th>
</tr>
</thead>
<tbody>
<tr>
<td>88.0.153.0</td>
<td>7.8.0.424</td>
<td>7.8.0.424</td>
<td>7.8.0.424</td>
<td>7.8.0.424</td>
<td>5.8.0.1304</td>
</tr>
</tbody>
</table>

Overview of new features and functions supported by this release on DS8884 283x model 980

At a glance:

- DS8884 Model 980 and Model 98B Expansion Unit
- IBM POWER8-based processors
- Scalable system memory and process cores in the controllers
- Repackage rack power system
- Improved I/O enclosure pairs
- Reduced 19-inch rack footprint
- Small form factor hardware management console (HMC)

This new microcode release supports DS8884 systems only.

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:

<table>
<thead>
<tr>
<th></th>
<th>High Impact</th>
<th>Moderate</th>
<th>Service</th>
<th>Improvements</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>- Acute: An irrecoverable error with potential loss of data.</td>
<td>- A function not operational and/or performance might be degraded.</td>
<td>- A recoverable error (no impact) and service improvements.</td>
<td>- Improvement changes for better Usability and Serviceability.</td>
</tr>
<tr>
<td>2</td>
<td>- Serious: An irrecoverable error with potential loss of access to data.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

HIPER: High Impact problem that is Pervasive: 3 or more occurrences
IBM System Storage - DS8880 Disk Storage
Microcode Bundle 88.0.153.0 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/or performance may be degraded.
None.

**Service:** A recoverable error, Service improvements.
None.

**Improvements:** Improvements for better usability
None.
IBM System Storage - DS8880 Disk Storage
Microcode Bundle 88.0.153.0 Release Note Information v1

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.
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.