

IBM System Storage - DS8880 Disk Storage 1 **Microcode Bundle 88.1.23.0 Release Note Information v1**

Release Date: April 13, 2016

VRMF Level Data Results:

VRMF level From:	88.1.22.0
VRMF Level To:	88.1.23.0
Report for:	All DS8880

Code Bundle Contents

This table includes code component reference information.

DS8880 Code Bundle Level	SEA or LMC Version:	DS CLI Client	STAT Tool	Heat Map Transfer Utility	Storage Manager
88.1.23.0	7.8.1.53	7.8.1.53	7.8.1.53	7.8.1.53	5.8.1.1025

Overview of new features and functions supported by this release on DS8884, 283x model 980, and DS8886, 283x model 981

At a glance:

- MES support
- Model conversion support, DS8870 to DS8880
- In-release microcode back-level
- Support for RAID 10 on Fibre-attached Solid-State Drive arrays
- Support for 1.8 TB 10K RPM 4K native 2.5" Self-Encrypting Drives
- Support for 6 TB 7.2K RPM 4K native 3.5" Self-Encrypting Drives
- Bug fixes

This new microcode release supports DS8880 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:

- 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

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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.

0x01B7 MLE

1. **Problem Description:** Microcode logic errors are being caused by Copy Services lock contention. Fixes improve CS lock processing.
 2. **Potential Impact of Problem:** ODD/Warmstart
 3. **Problem Severity:** Moderate
 4. **Pervasive Problem:** Yes
- ID#: 312748, 313453, 314654

Service: A recoverable error, Service improvements.

None.

Improvements: Improvements for better usability

None.

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