

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

## **Microcode Bundle 87.51.5.0 Release Note Information v1**

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**Release Date: June 30, 2015**

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

<b>VRMF level From:</b>	<b>87.50.114.0</b>
<b>VRMF Level To:</b>	<b>87.51.5.0</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>87.51.5.0</b>	<b>7.7.51.18</b>	<b>7.7.51.18</b>	<b>7.7.51.18</b>	<b>7.7.51.18</b>	<b>7.7.51.18</b>	<b>5.7.51.1008</b>

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

### **At a glance:**

- Bug fixes

**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**

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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.**

### **HIPER Loop errors caused multiple DDM rejections**

1. **Problem Description:** Degraded loop led to array members being marked 'Security Degraded', which then caused them to be rejected from the array.
2. **Potential Impact of Problem:** loss of access
3. **Problem Severity:** HIPER
4. **Pervasive Problem:** Yes

ID#: 303528

### **Remote FlashCopy failure**

1. **Problem Description:** During CDA, existing PreserveMirror FlashCopy relationships failed with msg ADR935W. Problem affects incremental PMFLC relationships, when updating to r7.4 levels, from a pre-7.4 level.
2. **Potential Impact of Problem:** Flashcopy failure
3. **Problem Severity:** High Impact
4. **Pervasive Problem:** No

ID#: 307524

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

None

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

### **Option to disable 240-byte performance data**

1. **Problem Description:** Code levels that supply 240-byte performance data to zOS are problematic for Customers that are running versions of zOS older than 1.12, or z/VM without VM65248. This fix provides the option to revert to the older 192-byte device performance stats.
2. **Potential Impact of Problem:** Abends
3. **Problem Severity:** Service
4. **Pervasive Problem:** No

ID#: 305219

### **0x05E MLE during CDA**

1. **Problem Description:** During CDA failover to update the second LPAR, the Device Adapter failover code improperly handled the format of the message from the down-level LPAR, causing a Microcode Logic Error.
2. **Potential Impact of Problem:** Warmstart caused CDA to suspend
3. **Problem Severity:** Service
4. **Pervasive Problem:** No

ID#: 306939

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### **Map 4970 escape**

1. **Problem Description:** DDM replacement failed to unbypass the FC ports, and the resultant SRC BE340027 failure was not properly handled by the Map procedures.
  2. **Potential Impact of Problem:** Extended service action
  3. **Problem Severity:** Service
  4. **Pervasive Problem:** No
- ID#: 307028

### **DDM replacement failure**

1. **Problem Description:** Map 4970 enhancement for SRC BE340027 where DDM is bypassed by FCIC firmware.
  2. **Potential Impact of Problem:** none
  3. **Problem Severity:** Service
  4. **Pervasive Problem:** No
- ID#: 307067

### **DDM storage upgrade failure**

1. **Problem Description:** Incorrect attribute value was set on air baffle objects, which caused the installation failure of DDMs into those slots.
  2. **Potential Impact of Problem:** Extended service action
  3. **Problem Severity:** Service
  4. **Pervasive Problem:** No
- ID#: 307630

## **Improvements: Improvement for better usability**

**None**

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