

# IBM TotalStorage® DS8700 Disk Storage

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## Microcode Bundle 76.20.98.0 v1 Release Note Information

Release Date: June 28, 2012

### VRMF Level Data Results:

VRMF level From:	76.20.94.0
VRMF Level To:	76.20.98.0
Report for:	Model 941

## Code Bundle Contents

DS800 Code Bundle Level	SEA or LMC Version: Used with dscli ver command.	CLI Client Level	Storage Manager Code Level
76.20.98.0	6.6.20300	5.6.20.300	5.6.20.1143

## Overview of new features and functions supported by Microcode Release 76.20.98.0 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**

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**Acute: An irrecoverable error with potential loss of data.**

**Change smart rebuild abort error handling**

1. **Problem Description:** When smart rebuild is forced to abort due to too many errors on the source drive a full raid rebuild will be performed.
2. **Potential Impact of Problem:** loss of data
3. **Problem Severity:** HIPER
4. **Pervasive Problem:** Yes

ID#: 269509

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

**Control unit ports have test initialization hung preventing re-login**

1. **Problem Description:** Control unit ports are hung (TIN) test initialization and are unable to re-login to the switch due to a microcode logic error. This will cause MIH errors leading to loss of access on all paths.
2. **Potential Impact of Problem:** loss of access
3. **Problem Severity:** High Impact
4. **Pervasive Problem:** No

ID#: 269518

**Single bit memory error causes DA adapter reset**

1. **Problem Description:** Single bit memory error causes DA error and adapter reset, multiple errors are possible. This can result in a fenced DA adapter or loss of access
2. **Potential Impact of Problem:** loss of access
3. **Problem Severity:** HIPER
4. **Pervasive Problem:** Yes

ID#: 263990

**DA adapter ports enabled during cluster failover**

1. **Problem Description:** During cluster failover or quiesce the DA adapter leave the ports enabled. Partner DA adapters are unable to communicate to the DA adapters because the processor is disabled.
2. **Potential Impact of Problem:** loss of access
3. **Problem Severity:** HIPER
4. **Pervasive Problem:** Yes

ID#: 265801

**Reset of host adapter leaves link light active**

1. **Problem Description:** When a reset of a host adapter is delayed the link light is left active causing the host to retry the path until the 30 second timer on the turns the link light off
2. **Potential Impact of Problem:** loss of access
3. **Problem Severity:** HIPER
4. **Pervasive Problem:** Yes

ID#: 263194

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### **Fencing an I/O enclosure leaves HA ports with light on**

1. **Problem Description:** When an I/O Enclosure is fenced the host adapters light on the host adapter ports, which are also fenced
2. **Potential Impact of Problem:** loss of access
3. **Problem Severity:** High Impact
4. **Pervasive Problem:** No

ID#: 262907

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

#### **PPRC suspend due to track format mismatch**

1. **Problem Description:** PPRC pair suspends when a track format data mismatch is detected due to a microcode logic error.
2. **Potential Impact of Problem:** PPRC suspend
3. **Problem Severity:** Moderate
4. **Pervasive Problem:** No

ID#: 269263

#### **Internal I/O fabric error caused by time-out**

1. **Problem Description:** A time-out of a host adapter read from cache causes an internal I/O fabric error. All adapters in the I/O Enclosure will fenced, stand-in timer may expire in high speed transaction environments.
2. **Potential Impact of Problem:** performance degraded
3. **Problem Severity:** Moderate
4. **Pervasive Problem:** Yes

ID#: 249981

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

#### **Failure deleting PAV alias volumes**

1. **Problem Description:** Deleting PAV alias volumes in parallel will fail and a warmstart will occur due to a microcode logic error.
2. **Potential Impact of Problem:** Unable to delete PAV alias volumes
3. **Problem Severity:** Service
4. **Pervasive Problem:** No

ID#: 269207

#### **Secure Data Overwrite does not generate BE610030 when complete**

1. **Problem Description:** Secure Data Overwrite did not generate serviceable event BE610030 when SDO completed successfully if the HMC rebooted during the process.
2. **Potential Impact of Problem:** No notification that SDO completed
3. **Problem Severity:** Service
4. **Pervasive Problem:** No

ID#: 264617

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**Improvements: Improvement for better usability**

**None**

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