

IBM System Storage - DS8900F Disk Storage

Microcode Bundle 89.42.18.0 Release Note Information

Release Date: 20 November, 2024

VRMF Level Data Results:

VRMF level From:	89.41.25.0
VRMF Level To:	89.42.18.0
Report for:	DS8900F

Code Bundle Contents

DS8900F Code Bundle Level	SEA or LMC Version:	DSCSI Client	Heat Map Transfer Utility	Storage Manager	Copy Services Manager
89.42.18.0	7.9.42.46	7.9.42.46	7.9.42.46	5.9.42.1022	6.3.10

Overview of new features and functions supported by this release on DS8900F 533x and 5341 models 993/994/996/998

At a glance:

- Code fixes

This new microcode release supports DS8900F 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: Irrecoverable error with potential loss of data. - Serious: Irrecoverable error with potential loss of access to data, or critical function.
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.

Safeguarded Copy data loss

- 1 Problem Description:** If a reservation timer expires, the reservation will be deleted. A query to the Safeguarded source volume while code is expiring the checkin, may encounter lock contention, resulting in loss of the Safeguarded source volume.
- 1 Potential Impact of Problem:** Loss of Safeguarded Copy data
- 2 Environment:** Safeguarded Copy
- 3 Problem Severity:** High Impact
- 4 Pervasive Problem:** No

ID# 367826

Safeguarded Copy data loss

- 1 Problem Description:** Running Flashcopy onto Safeguarded source, if the Flashcopy volume runs out of space, code incorrectly releases space on the Safeguarded source.
- 2 Potential Impact of Problem:** Loss of Safeguarded Copy data
- 3 Environment:** Flashcopy onto Safeguarded source
- 4 Problem Severity:** High Impact
- 5 Pervasive Problem:** No

ID# 368216

Cascaded Flashcopy data loss

- 1 Problem Description:** With FB volumes in a cascaded Flashcopy relationship (A->B, B->C), when A->B is withdrawn, the code incorrectly releases space on volume B
- 2 Potential Impact of Problem:** Data loss
- 3 Environment:** FB cascaded Flashcopy on R9.3 and R9.4
- 4 Problem Severity:** High Impact
- 5 Pervasive Problem:** No

ID# 368784

Safeguarded Copy data loss after a power outage

- 1 Problem Description:** During IML, a microcode logic error caused Safeguarded Copy volumes to be marked as pinned, non-retrievable.
- 2 Potential Impact of Problem:** Loss of Safeguarded Copy data
- 3 Environment:** All using Safeguarded Copy
- 4 Problem Severity:** High Impact
- 5 Pervasive Problem:** No

ID# 368932

Safeguarded Copy recover action fails with IWNR1027E

- 1 Problem Description:** While rolling off a Safeguarded Copy backup, that is being used as a recovery point, an error handling event (e.g. warmstart) may render the backup unusable.
- 2 Potential Impact of Problem:** Loss of Safeguarded Copy data
- 3 Environment:** All using Safeguarded Copy
- 4 Problem Severity:** High Impact
- 5 Pervasive Problem:** No

ID# 369528

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Serious: An irrecoverable error with potential loss of access to data, or critical function.

Unplanned Hyperswap

- 1 Problem Description:** Customer was able to delete a volume that still had CS relations, even without the "Force" option on DS CLI.
- 2 Potential Impact of Problem:** PPRC suspend
- 3 Environment:** Copy Services
- 4 Problem Severity:** High Impact
- 5 Pervasive Problem:** No

ID# 364566

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

Disappearing Statistics in Storage Manager

- 1 Problem Description:** Customer is unable to use the Storage Manager statistics panel; it becomes blank after two days
- 2 Potential Impact of Problem:** Unable to monitor statistics
- 3 Environment:** All R9
- 4 Problem Severity:** Moderate
- 5 Pervasive Problem:** No

ID# 357431

Migration jobs fail with TCT10E or TCT10F errors

- 1 Problem Description:** When the network is facing issues, the available connections remain in an incomplete CLOSE state, so they cannot be reused.
- 2 Potential Impact of Problem:** TCT job failure
- 3 Environment:** Transparent Cloud Tiering
- 4 Problem Severity:** Moderate
- 5 Pervasive Problem:** No

ID# 364628

0x4143 CD MLE END OF CHAIN TASK TIMEOUT

- 1 Problem Description:** TCT recall jobs are not handling 'Try Later' error, when tracks to destage are in use by another component.
- 2 Potential Impact of Problem:** Degraded performance
- 3 Environment:** Transparent Cloud Tiering
- 4 Problem Severity:** Moderate
- 5 Pervasive Problem:** No

ID# 364923

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Export Performance Data columns mislabeled

- 1 Problem Description:** "IOPS (IOPS) Read IOPS (IOPS) Write IOPS (IOPS) Total" should be "IOPS (KIOPS) Read IOPS (KIOPS) Write IOPS (KIOPS) Total"
- 2 Potential Impact of Problem:** Misleading reports
- 3 Environment:** N/A
- 4 Problem Severity:** Moderate
- 5 Pervasive Problem:** No

ID# 365361

LDAP authentication fails with CMUN81413E

- 1 Problem Description:** User cannot login when the LDAP policy has groupmemberattr configured.
- 2 Potential Impact of Problem:** Unable to login to HMCs
- 3 Environment:** LDAP using groupmemberattr
- 4 Problem Severity:** Moderate
- 5 Pervasive Problem:** No

ID# 365547

Transparent Cloud Tiering tasks timing out

- 1 Problem Description:** When Copier receives an abort request for a job timeout, Copier cannot abort jobs that are in the Opening phase, leaving the tasks in an unexpected state.
- 2 Potential Impact of Problem:** TCT failure
- 3 Environment:** Transparent Cloud Tiering
- 4 Problem Severity:** Moderate
- 5 Pervasive Problem:** No

ID# 366131

Host Adapter DMA Timeout, MSI

- 1 Problem Description:** A zHPF write transfer > 64K bytes, was mis-handled, causing an invalid transfer count to be set.
- 2 Potential Impact of Problem:** Warmstart
- 3 Environment:** All zHPF
- 4 Problem Severity:** Moderate
- 5 Pervasive Problem:** No

ID# 368535

Performance graphs missing in DS GUI

- 1 Problem Description:** Undesired side effects in ESSNI database cleanup fix.
- 2 Potential Impact of Problem:** Missing performance graphs
- 3 Environment:** 89.41.23.0 – 89.41.25.0
- 4 Problem Severity:** Moderate
- 5 Pervasive Problem:** No

ID# 369362

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Single LPAR 0x2021 MLE and reboot

- 1 Problem Description:** A Safeguarded Copy recovery relation was removed while a lookup table was being constructed, leading to a null pointer exception, and DSI.
- 2 Potential Impact of Problem:** Degraded performance
- 3 Environment:** Safeguarded Copy on 89.33.35.0, and all R9.4
- 4 Problem Severity:** Moderate
- 5 Pervasive Problem:** No

ID# 369402

LDAP authentication fails with CMUN81413E

- 1 Problem Description:** User cannot login when the LDAP policy has GroupDN configured.
- 2 Potential Impact of Problem:** Unable to login to HMCs
- 3 Environment:** LDAP using GroupDN
- 4 Problem Severity:** Moderate
- 5 Pervasive Problem:** No

ID# 369936

Service: A recoverable error, Service improvements

None.

Improvements: Improvements for better usability

Increase LPAR JVM heap size

- 1 Problem Description:** Increase LPAR Java memory from 512m to 1g for ESSNI.
- 2 Potential Impact of Problem:** Warmstart
- 3 Environment:** All
- 4 Problem Severity:** Improvement
- 5 Pervasive Problem:** No

ID# 368490

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