IBM System Storage - DS8900F Disk Storage
Microcode Bundle 89.12.8.0 Release Note Information v1.1

Release Date: March 5, 2021

VRMF Level Data Results:

VRMF level From:	**89.11.33.0**
VRMF Level To:	**89.12.8.0**
Report for:	**DS8900F**

Code Bundle Contents

DS8900F Code Bundle Level	SEA or LMC Version:	DSCLI Client	Heat Map Transfer Utility	Storage Manager	Copy Services Manager
89.12.8.0	7.9.12.19	7.9.12.19	7.9.12.19	5.9.12.1006	6.2.10

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

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.

HIPER Potential DS8900F Data Loss during a system power outage
1. **Problem Description:** https://www.ibm.com/support/pages/node/6415607
2. **Potential Impact of Problem:** loss of data
3. **Problem Severity:** HIPER
4. **Pervasive Problem:** No
ID# 350299

HIPER Timeouts and drive failures on Flash Drives with low usage
1. **Problem Description:** Certain specific Flash Drive models are exposed to conditions that may lead to a permanent read error when accessing data.
   https://www.ibm.com/support/pages/node/6414097
2. **Potential Impact of Problem:** loss of data
3. **Problem Severity:** HIPER
4. **Pervasive Problem:** No
ID# 352345

Potential SGC volume corruption
1. **Problem Description:** A timing window exists in DS8900F running R9.1 code, where SafeGuarded Copy and z/OS Space Release, or open system Unmap, may both update a volume metadata track at the same time. This will cause the affected SafeGuarded Copy volume to be unusable.
2. **Potential Impact of Problem:** loss of data
3. **Problem Severity:** High Impact
4. **Pervasive Problem:** No
ID# 352850

SafeGuarded Copy volume stuck in Rolloff state
1. **Problem Description:** After an error recovery event during SGC Rolloff, SGC consistency group formation fails with "try later" sense.
2. **Potential Impact of Problem:** Loss of SafeGuarded Copy
3. **Problem Severity:** High Impact
4. **Pervasive Problem:** No
ID# 353027

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

Removing volumes from an active XRC session may cause both clusters to reboot.
1. **Problem Description:** https://www.ibm.com/support/pages/node/6439821
2. **Potential Impact of Problem:** loss of access
3. **Problem Severity:** High Impact
4. **Pervasive Problem:** No
ID# 350819

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MGM session would not start after site swap
1. **Problem Description:** Metro-Global-Mirror start H1-H2-H3 failed because of incorrect Out-of-Sync track bitmaps.
2. **Potential Impact of Problem:** Replication failure
3. **Problem Severity:** High Impact
4. **Pervasive Problem:** No
ID# 351900

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

Warmstart during code update
1. **Problem Description:** During FastPath CDA, LPAR quiesce collided with a background ODD dump process.
2. **Potential Impact of Problem:** Warmstart
3. **Problem Severity:** Moderate
4. **Pervasive Problem:** No
ID# 351157

DS GUI/DSCLI CMUN00018E failure accessing HMC
1. **Problem Description:** An ESSNI deadlock condition caused login token processing failures.
2. **Potential Impact of Problem:** HMC access failure
3. **Problem Severity:** Moderate
4. **Pervasive Problem:** No
ID# 351973

0x7F0E MLE
1. **Problem Description:** A status field in a Data Mover task control block was updated after the task control block had been freed.
2. **Potential Impact of Problem:** Warmstart
3. **Problem Severity:** Moderate
4. **Pervasive Problem:** No
ID# 352851

0x790E MLE when removing a SafeGuarded Copy volume
1. **Problem Description:** When removing a fenced SGC volume, code is trying to update tables that no longer exist.
2. **Potential Impact of Problem:** Warmstart
3. **Problem Severity:** Moderate
4. **Pervasive Problem:** No
ID# 352855

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Service: A recoverable error, Service improvements.

Code bundle activation hang
1. **Problem Description:** A locking exception caused the code update process to hang while backing up HMC critical data.
2. **Potential Impact of Problem:** Extended service action
3. **Problem Severity:** Service
4. **Pervasive Problem:** No
ID# 351993

Security Key Lifecycle Manager configuration failure
1. **Problem Description:** Key size error when adding a SKLM server that uses IBM Proprietary Protocol over TCP port 1441, or upgrading an existing IPP server to a version that uses port 1441.
2. **Potential Impact of Problem:** Unable to configure SKLM
3. **Problem Severity:** Service
4. **Pervasive Problem:** No
ID# 352152

Improvements: Improvements for better usability

None.

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