

IBM System Storage - DS8900F Disk Storage **Microcode Bundle 89.22.18.0 Release Note Information**

Release Date: November 22, 2022

VRMF Level Data Results:

VRMF level From:	89.22.17.0
VRMF Level To:	89.22.18.0
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
89.22.18.0	7.9.22.51	7.9.22.48	7.9.22.48	5.9.22.1019	6.3.2

Overview of new features and functions supported by this release on DS8900F 533x 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.

None.

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

HIPER Temporary loss of access with an unusual workload pattern.

- 1 Problem Description:** Workloads with a small number of tracks in NVS, but very high update write activity to those same tracks, may lead to a destage stall condition.
- 2 Potential Impact of Problem:** Loss of access
- 3 Environment:** Systems running R9.2 SP2 - 89.22.17.0.
- 4 Problem Severity:** HIPER
- 5 Pervasive Problem:** Yes

ID# 358142

Multi-Target relations missing after a region swap-back

- 1 Problem Description:** Multi-Target relationships could not be created because there were no free primary relationship entries. Original Relation IDs still existed in the control structures, but were not reused.
- 2 Potential Impact of Problem:**
 - Unexpected full copy
 - Unable to create Multi-Target relations
- 3 Environment:** Copy services with Hyperswap
- 4 Problem Severity:** High Impact
- 5 Pervasive Problem:** No

ID# 358170

XRC session forward time creep

- 1 Problem Description:** In R9 systems, timekeeping based on processor ticks causes a forward time creep, which System Data Mover and XRC software do not handle well. Systems that have extended periods with no updates on any volume in a LCU / SSID may see message ANTX5001E with No Record Found, or Invalid Track Format, and ANTX5104E RC=0901 indicating incorrect data is written to the secondary volume
- 2 Potential Impact of Problem:** XRC failure
- 3 Environment:** XRC on R9 systems
- 4 Problem Severity:** High Impact
- 5 Pervasive Problem:** No

ID# 358622

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

Copy Services Manager PPRC query failed with reason 3800

1 Problem Description: ESSNI fails to get table entries from multiple kernel pipe requests, resulting in 0xF28 timeouts.

2 Potential Impact of Problem: Degraded CSM performance,

3 Environment: CSM-managed PPRC

4 Problem Severity: Moderate

5 Pervasive Problem: No

ID# 359691

Service: A recoverable error, Service improvements

None.

Improvements: Improvements for better usability

None.

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