

# **IBM System Storage - DS8900F Disk Storage** **Microcode Bundle 89.1.24.0 Release Note Information**

Release Date: December 17, 2019

## **VRMF Level Data Results:**

<b>VRMF level From:</b>	<b>89.1.23.0</b>
<b>VRMF Level To:</b>	<b>89.1.24.0</b>
<b>Report for:</b>	<b>DS8900F</b>

## **Code Bundle Contents**

<b>DS8900F Code Bundle Level</b>	<b>SEA or LMC Version:</b>	<b>DSCLI Client</b>	<b>Heat Map Transfer Utility</b>	<b>Storage Manager</b>	<b>Copy Services Manager</b>
<b>89.1.24.0</b>	<b>7.9.1.36</b>	<b>7.9.1.36</b>	<b>7.9.1.36</b>	<b>5.9.1.1016</b>	<b>6.2.6</b>

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:**

<b>1</b>	<b>High Impact</b>	- Acute: Irrecoverable error with potential loss of data. - Serious: Irrecoverable error with potential loss of access to data, or critical function.
<b>2</b>	<b>Moderate</b>	- A function not operational and/or performance might be degraded.
<b>3</b>	<b>Service</b>	- A recoverable error (no impact) and service improvements.
<b>4</b>	<b>Improvements</b>	- 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.**

### **Data Loss exposure with high write activity**

- 1. Problem Description:** A timing exposure exists in systems with high write activity. After freeing an NVS track buffer for reuse, a track may be allowed to use the buffer before PHYP has finished cleanup operations. Data loss may then occur during a power loss or Cluster failover event.
- 2. Potential Impact of Problem:** loss of data
- 3. Problem Severity:** High Impact
- 4. Pervasive Problem:** No

ID# 347200

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

None.

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

None.

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

None.

**Improvements: Improvements for better usability**

None.

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