



**Western Digital**

# Release Notes

Resource Manager Data Center Edition

Software Version 1.0.0  
Document D018-000757-000  
Revision 01  
September 2023

# Table of Contents

---

Revision History.....	ii
Notices.....	iii
Points of Contact.....	iv
<b>Chapter 1. Release Notes.....</b>	<b>1</b>
About the Release.....	2
Restrictions and Limitations.....	3
Known Issues.....	5
Compatibility Information.....	7

## Revision History

---

Document Date	Document Revision	Software Version	Comments
September 2023	01	1.0.0	Initial release

## Notices

---

Western Digital Technologies, Inc. or its affiliates' (collectively "Western Digital") general policy does not recommend the use of its products in life support applications wherein a failure or malfunction of the product may directly threaten life or injury. Per Western Digital Terms and Conditions of Sale, the user of Western Digital products in life support applications assumes all risk of such use and indemnifies Western Digital against all damages.

This document is for information use only and is subject to change without prior notice. Western Digital assumes no responsibility for any errors that may appear in this document, nor for incidental or consequential damages resulting from the furnishing, performance or use of this material.

Absent a written agreement signed by Western Digital or its authorized representative to the contrary, Western Digital explicitly disclaims any express and implied warranties and indemnities of any kind that may, or could, be associated with this document and related material, and any user of this document or related material agrees to such disclaimer as a precondition to receipt and usage hereof.

Each user of this document or any product referred to herein expressly waives all guaranties and warranties of any kind associated with this document any related materials or such product, whether expressed or implied, including without limitation, any implied warranty of merchantability or fitness for a particular purpose or non-infringement. Each user of this document or any product referred to herein also expressly agrees Western Digital shall not be liable for any incidental, punitive, indirect, special, or consequential damages, including without limitation physical injury or death, property damage, lost data, loss of profits or costs of procurement of substitute goods, technology, or services, arising out of or related to this document, any related materials or any product referred to herein, regardless of whether such damages are based on tort, warranty, contract, or any other legal theory, even if advised of the possibility of such damages.

This document and its contents, including diagrams, schematics, methodology, work product, and intellectual property rights described in, associated with, or implied by this document, are the sole and exclusive property of Western Digital. No intellectual property license, express or implied, is granted by Western Digital associated with the document recipient's receipt, access and/or use of this document or the products referred to herein; Western Digital retains all rights hereto.

Western Digital, the Western Digital design, the Western Digital logo, and Ultrastar are registered trademarks or trademarks of Western Digital Corporation or its affiliates in the US and/or other countries. Ansible, CentOS, and Red Hat Enterprise Linux are trademarks or registered trademarks of Red Hat, Inc. or its subsidiaries in the United States and other countries. Ubuntu is a registered trademark of Canonical Ltd. Debian is a trademark owned by Software in the Public Interest, Inc. Microsoft, Microsoft Edge, and Windows Server are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries. Chrome is a trademark of Google LLC. Firefox is a trademark of the Mozilla Foundation in the U.S. and other countries. Elasticsearch is a trademark of Elasticsearch BV, registered in the U.S. and in other countries. Linux® is the registered trademark of Linus Torvalds in the U.S. and other countries. "Python" is a trademark or registered trademark of the Python Software Foundation. All other marks are the property of their respective owners.

Not all products are available in all regions of the world. Pictures shown may vary from actual products. Product specifications subject to change without notice.

Western Digital  
5601 Great Oaks Parkway  
San Jose, CA 95119

**© 2023 Western Digital Corporation or its affiliates. All Rights Reserved.**

## Points of Contact

---

For further assistance with a Western Digital product, contact Western Digital Datacenter Platforms technical support. Please be prepared to provide the following information, as applicable: part number (P/N), serial number (S/N), product name and/or model number, software version, and a brief description of the issue.

**Email:**

[support@hgst.com](mailto:support@hgst.com)

**Website:**

<https://portal.wdc.com/s/>

### UK Import Representation Contact

**Western Digital UK Limited**

PO Box 471  
Leatherhead KT22 2LU  
UK

**Telephone:** +44 1372 366000

### EU Import Representation Contact

**Western Digital EU Limited**

PO Box 13379  
Swords, Co  
Dublin, Ireland



---

# Release Notes

## In This Chapter:

- About the Release.....	2
- Restrictions and Limitations.....	3
- Known Issues.....	5
- Compatibility Information.....	7

## 1.1 About the Release

The following table provides summary details for the current release of the Resource Manager Data Center Edition application.

*Table 1: Release Summary*

Category	Value
Applicable Hardware Platforms	Ultrastar® Data60
	Ultrastar Data102
	OpenFlex® Data24
	OpenFlex Data24 3200
Previous Release	N/A
Current Software Version	1.0.0

## 1.2 Restrictions and Limitations

This section provides information about behaviors of the Resource Manager Data Center Edition that the user may interpret as bugs. However, these behaviors are functioning as designed.

- Internet Explorer and Safari browsers are not supported in this release.
- The policy engine and notifications will only work with Advanced installations of Resource Manager Data Center Edition.
- Orchestration features are not available in Basic or Windows Advanced installations of the Resource Manager Data Center Edition (RMDC-381). For orchestration features, use either the Linux Advanced installation or the Docker installation for your applicable operating system. See the *Installation Options & Features* section in the Resource Manager Data Center Edition User Guide for more information.
- Group (Bulk) Operations:
  - The **FW Update** option cannot be selected for a group that contains both OpenFlex and Ultrastar platforms, as the firmware for these platforms is not interchangeable.
  - For Ultrastar platforms, the remote **FW Update** operation will not occur if the enclosure is already running the same version of OOBM firmware. However, you may still perform a firmware update from the enclosure dashboard via the **DeviceOS** tab.
  - If an enclosure is missing one of its IOMs, the remote **FW Update** operation will fail with HTTP Error 500 **Internal Server Error** (RMDC-619). However, you may still perform a firmware update from the enclosure dashboard via the DeviceOS tab.
  - Able to access the group "Power On" option when enclosures in the group are already in a "power on" state (RMDC-474). Also able to access the group "Locate LED" option when enclosures in the group are in sleep mode (RMDC-475). This occurs because the current status of all operation types across all group devices is not tracked. Group operation requests will simply be ignored by devices that cannot comply with the request or devices that are already in the given state.
- Under **Settings > Discovery**, when the user selects a new netmask, the Default Global netmask is automatically deselected, and vice versa (RMDC-467). This occurs because the Default Global netmask is designed to be enabled when no other netmasks have been defined and enabled for discovery. This behavior is not directly modifiable by the user.
- When using self-signed certificates, launching a remote device (server or enclosure) may throw a CORS error in HTTPS mode (RMDC-489). This is expected browser behavior when connecting to an unsecure HTTPS device. Ensure that all device endpoints have certificates built for their specific environment and installed into the local certificate store.
- The management server's dashboard will not launch with after modifying its port settings, and display of the modified IP address takes longer than expected (RMDC-523, 524). This occurs because port number changes are not supported in the current release.
- When a resource's login credentials don't match those of the Resource Manager Data Center Edition on the management server:
  - The resource's status will appear as **Unauthorized** and a **Lock** icon will be displayed (RMDC-556, 574). Clicking the **Lock** icon will bring up a dialog box, allowing the user to provide login credentials for that resource.
  - A new account can be created on the resource, but that new account cannot be used to manage the resource until the Resource Manager Data Center Edition database is updated with the new credentials of the remote target resource via the process described in the bullet above (RMDC-335).
- On the management server's **Assets** tab, only storage devices are listed. Compute devices are not supported assets in this release.



- The Docker installation of Resource Manager Data Center Edition is supported on Windows Server® 2022 but not Windows Server 2019.
- In dual IOM enclosures, using one IOM's connection to change the other IOM's port settings may result in a 400 Bad Request or 404 Not Found error (RMDC-374).

## 1.3 Known Issues

The following table provides a summary of known issues with the current release of the Resource Manager Data Center Edition application.

Table 2: Known Software Issues

Ref. ID	Description	Workaround / Notes
<b>RMDC-327</b>	IOM LED locate operation taking longer than expected	<p>This issue only occurs with Ultrastar platforms that use Redfish-based management. Redfish translation to OCAPI requires the completion of many Redfish calls before the GUI can present the information.</p> <p><b>Workaround:</b> None</p>
<b>RMDC-358</b>	Enclosure firmware version listed as "Unkonwn"	<p>On the <b>Network Dashboard</b>, under the <b>Resources</b> section, the firmware version of some enclosures is listed as "Unknown". This issue only occurs with Ultrastar platforms that use Redfish-based management. When the Redfish call to the enclosure returns "&lt;nil&gt;" or times out (due to the enclosure rebooting, updating firmware, etc.), the enclosure firmware version is not returned and is therefore labeled as "Unknown".</p> <p><b>Workaround:</b> Use extended Discovery Timeout and Query Timeout values</p>
<b>RMDC-414</b>	Incomplete information displayed when launching enclosure dashboard	<p>This issue only occurs with Ultrastar platforms that use Redfish-based management. Redfish translation to OCAPI requires the completion of many Redfish calls before the GUI can present the information. If some of those Redfish calls do not complete successfully, the associated data will not be displayed.</p> <p><b>Workaround:</b> None</p>
<b>RMDC-488</b>	<b>Data Manager Log</b> shows date/timestamp as "1970-01-01 00:00:26,809175"	<p>This issue only occurs with Ultrastar platforms that don't contain hardware system clocks. The date/timestamp is epoch time and is also present on Messages.</p> <p><b>Workaround:</b> None</p>
<b>RMDC-469</b>	<b>Update Port</b> dialog box taking longer than expected to appear	<p>This issue only occurs with Ultrastar platforms that use Redfish-based management. Redfish translation to OCAPI requires the completion of many Redfish calls before the GUI can present the information.</p> <p><b>Workaround:</b> None</p>

Ref. ID	Description	Workaround / Notes
<b>RMDC-463</b>	Individual SMTP notifications are sent for each element	Consolidation of SMTP notifications (by enclosure, by element type, etc.) is not supported in this release. <b>Workaround:</b> None
<b>RMDC-641</b>	Timestamps in <code>rmdc.log</code> file don't match the host time	The <code>rmdc.log</code> file uses Coordinated Universal Time (UTC), which may not match the management server's time setting. <b>Workaround:</b> None
<b>RMDC-645</b>	LDAP authentication error	The combination of valid and invalid groups in LDAP causes authentication failure for valid group credentials. <b>Workaround:</b> None
<b>RMDC-674</b>	LDAP settings not cleared after factory reset	LDAP settings under the server's <b>Administration</b> tab are not cleared after performing a factory reset of the Resource Manager Data Center Edition software. This issue only occurs with supported Windows Server versions and is caused by <code>rmdc.exe</code> not being restarted properly during factory reset. <b>Workaround:</b> Restart <code>rmdc.exe</code> manually
<b>RMDC-688</b>	SMTP alert emails not being received	Some SMTP alert emails are not being received. This is due to the policy name containing spaces, which is not currently restricted in the GUI. <b>Workaround:</b> Ensure that all policy names (under the management server's <b>Policies</b> tab) do not contain spaces.
<b>RMDC-697</b>	Unable to access JSON view of storage enclosure	On the management server's <b>Assets</b> tab, unable to access the JSON view of a storage enclosure. This occurs when the browser's IP address does not have access to the subnet containing the resources. <b>Workaround:</b> None

## 1.4 Compatibility Information

The following sections provide compatibility and requirements information for the current release of the Resource Manager Data Center Edition application.

### Supported Platforms

- Ultrastar Data60
- Ultrastar Data102
- OpenFlex Data24
- OpenFlex Data24 3200



**Note:** For supported hardware components, please refer to your platform's *Compatibility Matrix*. The Resource Manager Data Center Edition is compatible with each platform's supported components; any exceptions are noted in the [Restrictions and Limitations \(page 3\)](#) section of these *Release Notes*.

### Required Platform Firmware

Product Family	Product Name	Firmware
Ultrastar	Data60	4008-020 (SEP) & 4.0.31 (OOBM)
	Data102	
OpenFlex	Data24	5.0.0 and later
	Data24 3200	1.0.0

### Compatible Operating Systems

Operating System	Version
CentOS	8.5
Red Hat® Enterprise Linux® (RHEL)	8.5, 8.6, 9.0
Ubuntu	18.04, 20.04, 22.04
Debian	10.9, 11, 11.2
Windows Server®	2019, 2022

### Compatible Browsers

Browser	Version
Google Chrome	113.0.5672.93 and later
Mozilla Firefox	102.11.0esr and later
Microsoft Edge	113.0.1774.42 and later

## Required Software

Table 3: Third-Party Software

Installation Type	Linux	Windows
<b>Basic</b>	N/A	N/A
<b>Advanced &amp; Docker</b>	Elasticsearch (8.5.3) Ansible-Core (2.13.7) Ansible® (6.7.0) Python (3.8)	Elasticsearch (8.5.3)