



**EMC Unity™ Family**  
**EMC Unity™ All Flash,**  
**EMC Unity™ Hybrid,**  
**EMC UnityVSA™**

**Troubleshooting Checklist**

Part number 302-002-576  
Rev 01

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## **EMC Unity Family**

### **Troubleshooting Checklist**

Part number 302-002-576



## About this Document

### Purpose

This troubleshooting checklist provides EMC customers with the necessary information to identify and resolve issues successfully with the EMC® Unity Family.

### Audience

This document is for EMC customers.

### Related documents

The following documents on the EMC Online Support website, provide additional, relevant information. Your login credentials determine access to the documents. If you do not have access, contact your EMC representative:

*Unisphere for Unity Family Online Help*  
*Unity Family Release Notes*

### Additional resources

As part of an effort to improve its product lines, EMC periodically releases revisions of its software and hardware. Therefore, some functions described in this document might not be supported by all versions of the software or hardware currently in use. The product release notes provide the most up-to-date information on product features. Contact your EMC technical support professional if a product does not function properly or does not function as described in this document.

### Where to get help

Support, product, and licensing information can be obtained as follows:

#### Product information

For product and feature documentation or release notes, go to Unity Technical Documentation at: [www.emc.com/en-us/documentation/unity-family/index.htm](http://www.emc.com/en-us/documentation/unity-family/index.htm). You can also access this page from the Unity product family page at: [www.emc.com/en-us/storage/unity.htm](http://www.emc.com/en-us/storage/unity.htm). In the **Why Unity** section, click **Unity Product Resources**.

#### Troubleshooting

For information about EMC products, software updates, licensing, and service, go to EMC Online Support (registration required) at: <https://Support.EMC.com>. After logging in, locate the appropriate **Support by Product** page.

#### Technical support

For technical support and service requests, go to EMC Online Support at: <https://Support.EMC.com>. After logging in, locate Create a service request. To open a service request, you must have a valid support agreement. Contact your EMC Sales Representative for details about obtaining a valid support agreement or to answer any questions about your account.

# Chapter 1 EMC Unity Family

This chapter presents the following topics:

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## Introduction

This chapter provides general troubleshooting steps to resolve any errors encountered on a Unity Family platform.

## Troubleshooting sequence

To resolve an error, complete the following steps:

1. Note the details of the error including the date and time of the error, the activity that may have caused the error, and any other related activities that are in progress in the environment.  
**Note:** For example, if the error is related to the deletion of a snapshot and if a third-party snapshot software is managing snapshots on the platform, note all the relevant information.
2. To run **Collect Service Information** from the Unisphere Dashboard:
  - a. Under the **System** heading, select **Service**. The **Overview** page appears.
  - b. Select **Service Tasks**.
  - c. Select **Collect Service Information**.
  - d. Click **Execute**.
  - e. Click **+** to create a service data collection file.
  - f. Download to save the file.
3. Check the support website for FAQs, Release Notes, and known issues.
4. Close any open windows of the Unisphere GUI (clear browser cache/history, if required) and reopen the browser.
5. Log in to Unisphere again.
6. To check the system health:
  - a. From the dashboard view, select **System Health > Hardware**.
  - b. Check for any detected hardware faults or other issues. If there are any issues, refer to the related Unisphere online help topic or the onscreen instructions to resolve them.
  - c. Under the **Events** heading, select **Alerts**. The **Alerts** page appears.
  - d. Check for any alerts that indicate a problem. Check the errors in the log files.
    - i. Under the **System** heading, select **Service**. The **Overview** page appears.
    - ii. Select **Logs**.
  - e. To check if any SPs are in Service mode:
    - i. Under the **System** heading, select **Service**. The **Overview** page appears.
    - ii. Select **Service Tasks**.

- iii. In the **Storage Processor** pane, check the **Mode** field for any SPs in Service mode. If any SPs are in Service mode, address the reason. When the SP in Service mode is selected, the **Status** field shows the reason for the Service mode and **Recommended Action** field shows the recommended action.
- 7. To restart the Management Software through the **Service System** page in Unisphere:
  - Note:** Restarting the management software does not interrupt any system processes or I/O of the storage.
  - a. Under the **System** heading, select **Service**. The **Overview** page appears.
  - b. Select **Service Tasks**.
  - c. In the **Storage System** pane, select **Restart Management Software**.
  - d. Click **Execute** to restart the management software.
  - e. Wait for 4-6 minutes while the management software restarts.
- 8. To reboot each SP through the **Service Tasks** page in Unisphere:
  - Note:** In a single SP system, when the SP reboots, all I/O services stop and the hosts lose access to the system. In a dual SP system, when an SP reboots, that SP is unavailable to the system and hosts. If the other SP in the dual system is healthy, all storage servers fail over to it without disrupting the host operations. There may be a performance impact while the SP is rebooting.
  - a. Under the **System** heading, select **Service**. The **Overview** page appears.
  - b. Select **Service Tasks**.
  - c. In the **Storage Processor** pane, select **Reboot** and click **Execute**.
  - d. Type the service password and click **OK**.
  - e. Wait for 10 minutes while the SP restarts. If a second SP is present, do not reboot this SP until the first SP is back online and displays “Mode: Normal.”

If you have tried all the troubleshooting steps and the problem persists, go to the EMC Support page for the Unity Family product for further support options.

If you must submit a Service Request, be sure to attach the data collected in [step 2](#) to any open Service Requests.

## Unisphere error codes

The following is a list of all the potential Unisphere error codes that you can encounter while managing the Unity Family products. They are listed for context and search purposes.

```

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## EMC Unity Family

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