



## **ffm events**

### ONTAP EMS reference

NetApp  
November 22, 2024

# Table of Contents

- ffm events ..... 1
- ffm.aggr events ..... 1
- ffm.attach events ..... 2
- ffm.dataip events ..... 3
- ffm.detach events ..... 5
- ffm.init events ..... 6
- ffm.restart events ..... 6

# ffm events

## ffm.aggr events

### ffm.aggr.attach.done

#### Severity

NOTICE

#### Description

This message occurs when an aggregate attach operation is complete. The event displays the service ID of the attached Firefly Service and the generation number, which is the number of times this aggr has been unattached.

#### Corrective Action

(None).

#### Syslog Message

Aggregate ID: %u has been attached to a Firefly service ID: %u, the current attach generation of the aggregate is %u.

#### Parameters

**aggrID** (INT): Unique identifier of the aggregate.

**fireflyID** (INT): Unique identifier of the Firefly Service the aggregate is attached to.

**attachGeneration** (INT): Current attach generation of the aggregate.

### ffm.aggr.attach.started

#### Severity

NOTICE

#### Description

This message occurs when an aggregate attach operation is started. The event displays the service ID of the attached Firefly Service and the generation number, which is the number of times this aggr has been unattached.

#### Corrective Action

(None).

#### Syslog Message

Attachment of an aggregate ID: %u to a Firefly service ID: %u has been started, the current attach generation of the aggregate is %u.

#### Parameters

**aggrID** (INT): Unique identifier of the aggregate.

**fireflyID** (INT): Unique identifier of the Firefly Service the aggregate is being attached to.

**attachGeneration** (INT): Current attach generation of the aggregate.

## ffm.aggr.detach.done

### Severity

NOTICE

### Description

This message occurs when an aggregate detach operation is completed. The event displays the service ID of the attached Firefly Service and the generation number, which is the number of times this aggr has been unattached.

### Corrective Action

(None).

### Syslog Message

Aggregate ID: %u has been detached from a Firefly service ID: %u, the current attach generation of the aggregate is %u.

### Parameters

**aggrID** (INT): Unique identifier of the aggregate.

**fireflyID** (INT): Unique identifier of the Firefly Service the aggregate is detached from.

**attachGeneration** (INT): Current attach generation count of the aggregate.

## ffm.aggr.detach.started

### Severity

NOTICE

### Description

This message occurs when an aggregate detach operation is started. The event displays the service ID of the attached Firefly Service and the generation number, which is the number of times this aggr has been unattached.

### Corrective Action

(None).

### Syslog Message

Detachment of an aggregate ID: %u from a Firefly service ID: %u has been started, the current attach generation of the aggregate is %u.

### Parameters

**aggrID** (INT): Unique identifier of the aggregate.

**fireflyID** (INT): Unique identifier of the Firefly Service the aggregate is being detached from.

**attachGeneration** (INT): Current attach generation of the aggregate.

## ffm.attach events

### ffm.attach.outage.end

### Severity

NOTICE

## Description

This message occurs when volumes on an aggregate become available to the protocol clients near the end of the attach phase of volume relocation.

## Corrective Action

(None).

## Syslog Message

Protocol outage for volumes on aggregate "%s" has ended at %llu, %llu ms after the attach callback (including %llu ms for replay).

## Parameters

**aggr\_name** (STRING): Name of the aggregate.

**sk\_msecs** (LONGINT): Timestamp of this event.

**attach\_protocol\_outage\_duration** (LONGINT): Duration in milliseconds from the moment of the attach callback to this event.

**attach\_replay\_duration** (LONGINT): Duration of the nvlog replay before the protocol outage ends.

## ffm.attach.outage.summary

### Severity

NOTICE

### Description

This message occurs when the attach phase of graceful or ungraceful volume relocation finishes.

### Corrective Action

(None).

### Syslog Message

Attach of volumes on aggregate "%s" has started at %llu and ended at %llu. Total attach time: %llu ms.

### Parameters

**aggr\_name** (STRING): Name of the aggregate.

**attach\_start\_sk\_msecs** (LONGINT): Timestamp when the attach starts.

**attach\_end\_sk\_msecs** (LONGINT): Timestamp of this event.

**attach\_op\_total** (LONGINT): Duration in milliseconds from the moment of the attach callback to this event.

## ffm.dataip events

### ffm.dataip.failedToHost

#### Severity

NOTICE

#### Description

This message occurs when a data IP address was failed to host on the node. Data access through this IP address is not available.

### Corrective Action

(None).

### Syslog Message

Data IP address %s was failed to host by the NFS protocol service on the node %s (ID: %u).

### Parameters

**dataip** (STRING): The IP address that was failed to host.

**nodename** (STRING): Name of the node on which the data IP was failed to host.

**nodeid** (INT): Unique identifier of the node on which the data IP was failed to host.

## ffm.dataip.notUnhosted

### Severity

NOTICE

### Description

This message occurs when a data IP address is not unhosted on the node.

### Corrective Action

(None).

### Syslog Message

The NFS protocol service could not unhost data IP address "%s" on node "%s" (ID: %u).

### Parameters

**dataip** (STRING): IP address that could not be unhosted.

**nodename** (STRING): Name of the node on which the data IP could not be unhosted.

**nodeid** (INT): Unique identifier of the node on which the data IP could not be unhosted.

## ffm.dataip.successfullyHosted

### Severity

NOTICE

### Description

This message occurs when a data IP address was successfully hosted on the node. Data access through this IP address is now available.

### Corrective Action

(None).

### Syslog Message

Data IP address %s was hosted by the NFS protocol service on the node %s (ID: %u).

### Parameters

**dataip** (STRING): The IP address that was hosted.

**nodename** (STRING): Name of the node on which the data IP was hosted.

**nodeid** (INT): Unique identifier of the node on which the data IP was hosted.

## ffm.dataip.unhostSuccess

### Severity

NOTICE

### Description

This message occurs when a data IP address is successfully unhosted from the node. Data access through this IP address is not available.

### Corrective Action

(None).

### Syslog Message

The NFS protocol service unhosted data IP address "%s" on node "%s" (ID: %u).

### Parameters

**dataip** (STRING): IP address that was unhosted.

**nodename** (STRING): Name of the node on which the data IP was unhosted.

**nodeid** (INT): Unique identifier of the node on which the data IP was unhosted.

## ffm.detach events

### ffm.detach.outage.start

#### Severity

NOTICE

#### Description

This message occurs when a volume becomes unavailable to protocol traffic during a graceful volume relocation.

#### Corrective Action

(None).

#### Syslog Message

Protocol outage of volume "%s" on aggregate "%s" has started. Timestamp: %llu, %llu ms after the detach callback.

#### Parameters

**volume\_name** (STRING): Name of the volume.

**aggr\_name** (STRING): Name of the aggregate.

**sk\_msecs** (LONGINT): Timestamp of this event.

**detach\_lead\_time** (LONGINT): Duration in milliseconds from the moment of the detach callback to this event.

### ffm.detach.outage.summary

#### Severity

NOTICE

## Description

This message occurs when the detach phase of graceful volume relocation finishes.

## Corrective Action

(None).

## Syslog Message

Detach protocol outage has completed for volumes on aggregate %s. Timestamp: %llu, estimated protocol outage duration: %llu ms, total detach duration: %llu ms.

## Parameters

**aggr\_name** (STRING): Name of the aggregate.

**detach\_end\_sk\_msecs** (LONGINT): Timestamp of this event.

**est\_detach\_protocol\_outage\_duration** (LONGINT): Estimated duration in milliseconds from the start to the end of the protocol outage for the detach operation.

**detach\_op\_total** (LONGINT): Duration in milliseconds from the moment of the detach callback to this event.

# ffm.init events

## ffm.init.firefly

### Severity

NOTICE

### Description

This message occurs when the Firefly manager is initiated during Firefly boot.

### Corrective Action

(None).

### Syslog Message

Firefly manager initiated.

### Parameters

(None).

# ffm.restart events

## ffm.restart.firefly

### Severity

NOTICE

### Description

This message occurs when the Firefly manager restarts Firefly after detecting abnormal behavior. This restart avoids a core dump, which would not help address the abnormal behavior. When Firefly comes back up, aggregates will be re-attached.



**Corrective Action**

(None).

**Syslog Message**

Firefly manager restart: %s

**Parameters**

**reason** (STRING): Reason to restart.

## Copyright information

Copyright © 2024 NetApp, Inc. All Rights Reserved. Printed in the U.S. No part of this document covered by copyright may be reproduced in any form or by any means—graphic, electronic, or mechanical, including photocopying, recording, taping, or storage in an electronic retrieval system—without prior written permission of the copyright owner.

Software derived from copyrighted NetApp material is subject to the following license and disclaimer:

THIS SOFTWARE IS PROVIDED BY NETAPP “AS IS” AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WHICH ARE HEREBY DISCLAIMED. IN NO EVENT SHALL NETAPP BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

NetApp reserves the right to change any products described herein at any time, and without notice. NetApp assumes no responsibility or liability arising from the use of products described herein, except as expressly agreed to in writing by NetApp. The use or purchase of this product does not convey a license under any patent rights, trademark rights, or any other intellectual property rights of NetApp.

The product described in this manual may be protected by one or more U.S. patents, foreign patents, or pending applications.

LIMITED RIGHTS LEGEND: Use, duplication, or disclosure by the government is subject to restrictions as set forth in subparagraph (b)(3) of the Rights in Technical Data -Noncommercial Items at DFARS 252.227-7013 (FEB 2014) and FAR 52.227-19 (DEC 2007).

Data contained herein pertains to a commercial product and/or commercial service (as defined in FAR 2.101) and is proprietary to NetApp, Inc. All NetApp technical data and computer software provided under this Agreement is commercial in nature and developed solely at private expense. The U.S. Government has a non-exclusive, non-transferrable, nonsublicensable, worldwide, limited irrevocable license to use the Data only in connection with and in support of the U.S. Government contract under which the Data was delivered. Except as provided herein, the Data may not be used, disclosed, reproduced, modified, performed, or displayed without the prior written approval of NetApp, Inc. United States Government license rights for the Department of Defense are limited to those rights identified in DFARS clause 252.227-7015(b) (FEB 2014).

## Trademark information

NETAPP, the NETAPP logo, and the marks listed at <http://www.netapp.com/TM> are trademarks of NetApp, Inc. Other company and product names may be trademarks of their respective owners.