

# **Update deprecated EMS event mapping**ONTAP 9

NetApp May 12, 2022

This PDF was generated from https://docs.netapp.com/us-en/ontap/error-messages/ems-routing-notifications-models-concept.html on May 12, 2022. Always check docs.netapp.com for the latest.

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## **Update deprecated EMS event mapping**

### **EMS** event mapping models

Prior to ONTAP 9.0, EMS events could only be mapped to event destinations based on event name pattern matching. The ONTAP command sets (event destination, event route) that use this model continue to be available in the latest versions of ONTAP, but they have been deprecated starting with ONTAP 9.0.

Beginning with ONTAP 9.0, the best practice for ONTAP EMS event destination mapping is to use the more scalable event filter model in which pattern matching is done on multiple fields, using the event filter, event notification, and event notification destination command sets.

If your EMS mapping is configured using the deprecated commands, you should update your mapping to use the event filter, event notification, and event notification destination command sets.

There are two types of event destinations:

- 1. System-generated destinations: There are five system-generated event destinations (created by default)
  - ° allevents
  - ° asup
  - ° criticals
  - ° pager
  - ° traphost

Some of the system-generated destinations are for special purpose. For example, the asup destination routes callhome.\* events to the AutoSupport module in ONTAP to generate AutoSupport messages.

2. **User-created destinations**: These are manually created using the event destination create command.

| Name   | Mail Dest.  | SNMP Dest.                              | Syslog Dest.           |
|--|---|---|------------------------|
| Params   |   |   |                        |
|  |   |   |                        |
| allevents  | _   | _                                       | _                      |
| false  |   |   |                        |
| asup   | _   | _                                       | _                      |
| false  |   |   |                        |
| criticals  | _   | _                                       | _                      |
| false  |   |   |                        |
| pager  | _   | _                                       | _                      |
| false  |   |   |                        |
| traphost   | _   | _                                       | _                      |
| false  |   |   |                        |
| 5 entries wer  | re displayed.   |   |                        |
| +  | o dispingon.  |   |                        |
|  |   |   |                        |
| This command destination"  | and "event notifica   | the "event filter<br>ation" commands, i | ", "event notification |
| This command destination"<br>+<br>cluster-1::ev  | is deprecated. Use  | the "event filter<br>ation" commands, i | ", "event notification |
| This command destination" + cluster-1::ev + Hide   | is deprecated. Use and "event notificate rent*> destination s             | the "event filter ation" commands, i    | ", "event notification |
| This command destination" + cluster-1::ev + Hide Name  | is deprecated. Use and "event notificate rent*> destination s             | the "event filter<br>ation" commands, i | ", "event notification |
| This command destination" + cluster-1::ev + Hide Name  | is deprecated. Use and "event notificate rent*> destination s             | the "event filter ation" commands, i    | ", "event notification |
| This command destination" + cluster-1::ev + Hide Name  | is deprecated. Use and "event notificate rent*> destination s             | the "event filter ation" commands, i    | ", "event notification |
| This command destination" + cluster-1::ev + Hide Name Params   | is deprecated. Use and "event notificate rent*> destination s             | the "event filter ation" commands, i    | ", "event notification |
| This command destination" + cluster-1::ev + Hide Name Params allevents   | is deprecated. Use and "event notificate rent*> destination s             | the "event filter ation" commands, i    | ", "event notification |
| This command destination" + cluster-1::ev + Hide Name Params allevents false   | is deprecated. Use and "event notificate rent*> destination s             | the "event filter ation" commands, i    | ", "event notification |
| This command destination" + cluster-1::ev + Hide Name Params allevents false asup  | is deprecated. Use and "event notificate rent*> destination s             | the "event filter ation" commands, i    | ", "event notification |
| This command destination" + cluster-1::ev + Hide Name Params allevents false asup false                                  | is deprecated. Use and "event notificate rent*> destination s             | the "event filter ation" commands, i    | ", "event notification |
| This command destination" + cluster-1::ev + Hide Name Params allevents false asup false criticals                        | is deprecated. Use and "event notificate rent*> destination s             | the "event filter ation" commands, i    | ", "event notification |
| This command destination" + cluster-1::ev + Hide Name Params allevents false asup false criticals false                  | is deprecated. Use and "event notificate rent*> destination s             | the "event filter ation" commands, i    | ", "event notification |
| This command destination" + cluster-1::ev + Hide Name Params allevents false asup false criticals false pager            | is deprecated. Use and "event notificate rent*> destination s             | the "event filter ation" commands, i    | ", "event notification |
| This command destination" + cluster-1::ev + Hide Name Params allevents false asup false criticals false pager false      | is deprecated. Use and "event notificate rent*> destination so Mail Dest. | the "event filter ation" commands, i    | ", "event notification |
| This command destination" + cluster-1::ev + Hide Name Params allevents false asup false criticals false pager false test | is deprecated. Use and "event notificate rent*> destination s             | the "event filter ation" commands, i    | ", "event notification |
| This command destination"<br>+<br>cluster-1::ev  | is deprecated. Use and "event notificate rent*> destination so Mail Dest. | the "event filter ation" commands, i    | ", "event notification |

In the deprecated model, EMS events are individually mapped to a destination using the event route add-destinations command.

```
cluster-1::event*> route add-destinations -message-name raid.aggr.*
-destinations test
This command is deprecated. Use the "event filter", "event notification
destination" and "event notification" commands, instead.
4 entries were acted on.
cluster-1::event*> route show -message-name raid.aggr.*
                                                          Freq
Time
Message
                              Severity Destinations
                                                         Threshd
Threshd
raid.aggr.autoGrow.abort
                             NOTICE
                                           test
raid.aggr.autoGrow.success NOTICE test
raid.aggr.lock.conflict
                                                                 0
                             INFORMATIONAL test
                                                        0
                             DEBUG test
raid.aggr.log.CP.count
                                                          0
                                                                 0
4 entries were displayed.
```

The new, more scalable EMS event notifications mechanism is based on event filters and event notification destinations. Refer to the following KB article for detailed information on the new event notification mechanism:

Overview of Event Management System for ONTAP 9

#### Legacy routing based model



#### Event notification based model



## Update EMS event mapping from deprecated ONTAP commands

If your EMS event mapping is currently configured using the deprecated ONTAP command sets (event destination, event route), you should follow this procedure to update your mapping to use the event filter, event notification, and event notification destination command sets.

#### **Steps**

1. List all the event destinations in the system using the event destination show command.

| <pre>cluster-1::event*&gt; destination show</pre> |              |            |              |  |  |  |
|---|--------------|------------|--------------|--|--|--|
| Hide  |              |            |              |  |  |  |
| Name  | Mail Dest.   | SNMP Dest. | Syslog Dest. |  |  |  |
| Params  |              |            |              |  |  |  |
|   |              |            |              |  |  |  |
|   |              |            |              |  |  |  |
| allevents   | -            | -          | -            |  |  |  |
| false   |              |            |              |  |  |  |
| asup  | -            | -          | -            |  |  |  |
| false   |              |            |              |  |  |  |
| criticals   | -            | -          | -            |  |  |  |
| false   |              |            |              |  |  |  |
| pager   | -            | -          | -            |  |  |  |
| false   |              |            |              |  |  |  |
| test  | test@xyz.com | -          | -            |  |  |  |
| false   |              |            |              |  |  |  |
| traphost  | -            | -          | -            |  |  |  |
| false   |              |            |              |  |  |  |
| 6 entries wer                                     | e displayed. |            |              |  |  |  |

2. For each destination, list the events being mapped to it using the event route show -destinations <destination name> command.

| cluster-1::event*> route show - | -destinations tes | t            |         |   |
|---------------------------------|-------------------|--------------|---------|---|
|                                 | Freq              |              |         |   |
| Time                            |                   |              |         |   |
| Message                         | Severity          | Destinations | Thresho | Ĺ |
| Threshd                         |                   |              |         |   |
|                                 |                   |              |         | - |
|                                 |                   |              |         |   |
| raid.aggr.autoGrow.abort        | NOTICE            | test         | 0       | 0 |
| raid.aggr.autoGrow.success      | NOTICE            | test         | 0       | 0 |
| raid.aggr.lock.conflict         | INFORMATIONAL     | test         | 0       | 0 |
| raid.aggr.log.CP.count          | DEBUG             | test         | 0       | 0 |
| 4 entries were displayed.       |                   |              |         |   |
|                                 |                   |              |         |   |

3. Create a corresponding event filter which includes all these subsets of events. For example, if you want to include only the raid.aggr.\* events, use a wildcard for the message-name parameter when creating the filter. You can also create filters for single events.



You can create up to 50 event filters.

4. Create an event notification destination for each of the event destination endpoints (i.e., SMTP/SNMP/syslog)

5. Create an event notification by mapping the event filter to the event notification destination.

6. Repeat steps 1-5 for each event destination that has an event route mapping.



Events routed to SNMP destinations should be mapped to the <code>snmp-traphost</code> event notification destination. The SNMP traphost destination uses the system configured SNMP traphost.

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