



## Support

### ONTAP 9.6 REST API reference

NetApp  
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# Support

## Support overview

### Overview

You can use ONTAP support APIs to manage configuration backups, autosupport settings, and event handling.

### Configuration backups

Configuration backups are copies of node and cluster settings saved to an external server. Single-node clusters must have configuration backups as protection against corruption of the configuration database. Multi-node clusters back up the configuration automatically between the nodes in the cluster.

## Manage AutoSupport configuration

### Support AutoSupport endpoint overview

#### Overview

AutoSupport is NetApp's *call home* mechanism. AutoSupport sends configuration details, status details, and error reporting details to NetApp.

This endpoint supports both GET and PATCH calls. GET is used to retrieve AutoSupport configuration details for the cluster and PATCH is used to modify the AutoSupport configuration of the cluster. GET calls can also be used to check AutoSupport connectivity.

---

### Examples

#### Configuring 'to' addresses

The following example configures AutoSupport to send emails to 'to' addresses.

```
# The API:
PATCH /support/autosupport

# The call:
curl -X PATCH "https://<mgmt-ip>/api/support/autosupport" -H "accept:
application/hal+json" -H "Content-Type: application/json" -d "{ \"to\": [
\"abc@netapp.com\", \"xyz@netapp.com\" ]}"

# The response:
200 OK
{ }
```

## Configuring 'SMTP' transport

The following example configures AutoSupport to use 'SMTP' transport. The default transport is 'HTTPS'.

```
# The API:
PATCH /support/autosupport

# The call:
curl -X PATCH "https://<mgmt-ip>/api/support/autosupport" -H "accept:
application/hal+json" -H "Content-Type: application/json" -d "{
\"transport\": \"smtp\"}"

# The response:
200 OK
{}
```

---

## Retrieving the AutoSupport configuration

The following example retrieves AutoSupport configuration for the cluster.

```

# The API:
GET /support/autosupport

# The call:
curl -X GET "https://<mgmt-ip>/api/support/autosupport" -H "accept:
application/hal+json" OR
curl -X GET "https://<mgmt-ip>/api/support/autosupport?fields=*" -H
"accept: application/hal+json"

# The response:
200 OK
{
  "enabled": true,
  "mail_hosts": [
    "mailhost"
  ],
  "from": "Postmaster",
  "to": [
    "abc@netapp.com",
    "xyz@netapp.com"
  ],
  "contact_support": true,
  "transport": "smtp",
  "proxy_url": "",
  "is_minimal": false,
  "_links": {
    "self": {
      "href": "/api/support/autosupport"
    }
  }
}

```

### Retrieving AutoSupport connectivity issues

The following example retrieves AutoSupport connectivity issues for the cluster. The `fields=issues` parameter must be specified, for the response to return any connectivity issues. The `corrective_action` section might contain commands which needs to be executed on the ONTAP CLI.

Note that the connectivity check can take up to 10 seconds to complete.

```

# The API:
GET /support/autosupport

# The call:

```

```

curl -X GET "https://<mgmt-ip>/api/support/autosupport?fields=issues" -H
"accept: application/hal+json"

# The response:
200 OK
{
  "issues": [
    {
      "node": {
        "name": "node3",
        "uuid": "0ecfd0a6-f1b3-11e8-9d9f-005056bbaadc",
        "_links": {
          "self": {
            "href": "/api/cluster/nodes/0ecfd0a6-f1b3-11e8-9d9f-
005056bbaadc"
          }
        }
      },
      "issue": {
        "message": "SMTP connectivity check failed for destination:
mailhost. Error: Could not resolve host - 'mailhost'",
        "code": "53149746"
      },
      "corrective_action": {
        "message": "Check the hostname of the SMTP server",
        "code": "53149746"
      }
    },
    {
      "node": {
        "name": "node3",
        "uuid": "0ecfd0a6-f1b3-11e8-9d9f-005056bbaadc",
        "_links": {
          "self": {
            "href": "/api/cluster/nodes/0ecfd0a6-f1b3-11e8-9d9f-
005056bbaadc"
          }
        }
      },
      "issue": {
        "message": "AutoSupport OnDemand is disabled when \"-transport\" is
not set to \"https\".",
        "code": "53149740"
      },
      "corrective_action": {
        "message": "Run \"system node autosupport modify -transport https

```

```

-node <node name>\\" to set \\"-transport\\" to \\"https\\".",
  "code": "53149740"
}
}
],
"_links": {
  "self": {
    "href": "/api/support/autosupport"
  }
}
}
}

```

### Retrieving AutoSupport configuration and connectivity issues

The following example retrieves AutoSupport configuration and connectivity issues on the cluster. Use `fields=*`, `issues` parameter to return both configuration and connectivity issues.

```

# The API:
GET /support/autosupport

# The call:
curl -X GET "https://<mgmt-ip>/api/support/autosupport?fields=%2Cissues"
-H "accept: application/hal+json"

# The response:
200 OK
{
  "enabled": true,
  "mail_hosts": [
    "mailhost"
  ],
  "from": "Postmaster",
  "to": [
    "abc@netapp.com",
    "xyz@netapp.com"
  ],
  "contact_support": true,
  "transport": "smtp",
  "proxy_url": "",
  "is_minimal": false,
  "issues": [
    {
      "node": {
        "name": "node3",

```

```

    "uuid": "0ecfd0a6-f1b3-11e8-9d9f-005056bbaadc",
    "_links": {
      "self": {
        "href": "/api/cluster/nodes/0ecfd0a6-f1b3-11e8-9d9f-005056bbaadc"
      }
    }
  },
  "issue": {
    "message": "SMTP connectivity check failed for destination: mailhost. Error: Could not resolve host - 'mailhost'",
    "code": "53149746"
  },
  "corrective_action": {
    "message": "Check the hostname of the SMTP server",
    "code": "53149746"
  }
},
{
  "node": {
    "name": "node3",
    "uuid": "0ecfd0a6-f1b3-11e8-9d9f-005056bbaadc",
    "_links": {
      "self": {
        "href": "/api/cluster/nodes/0ecfd0a6-f1b3-11e8-9d9f-005056bbaadc"
      }
    }
  },
  "issue": {
    "message": "AutoSupport OnDemand is disabled when \"-transport\" is not set to \"https\".",
    "code": "53149740"
  },
  "corrective_action": {
    "message": "Run \"system node autosupport modify -transport https -node <node name>\" to set \"-transport\" to \"https\".",
    "code": "53149740"
  }
}
],
"_links": {
  "self": {
    "href": "/api/support/autosupport"
  }
}
}

```



```
}
```

## Retrieve the AutoSupport configuration

GET `/support/autosupport`

Retrieves the AutoSupport configuration of the cluster and if requested, returns any connectivity issues with the AutoSupport configuration.

Important note:

- The **issues** field consists of a list of objects containing details of the node that has a connectivity issue, the issue description, and corrective action you can take to address the issue. When not empty, this indicates a connection issue to the **HTTP/S**, **SMTP**, or **AutoSupport On Demand** server.

### Expensive properties

There is an added cost to retrieving values for these properties. They are not included by default in GET results and must be explicitly requested using the `fields` query parameter. See [DOC Requesting specific fields](#) to learn more.

- `issues`

### Related ONTAP commands

- `system node autosupport show -instance`
- `system node autosupport check show-details`

### Learn more

- [DOC /support/autosupport](#)

### Parameters

Name	Type	In	Required	Description
<code>fields</code>	<code>array[string]</code>	<code>query</code>	False	Specify the fields to return.

### Response

```
Status: 200, Ok
```

Name	Type	Description
contact_support	boolean	Specifies whether to send the AutoSupport messages to vendor support.
enabled	boolean	Specifies whether the AutoSupport daemon is enabled. When this setting is disabled, delivery of all AutoSupport messages is turned off.
from	string	The e-mail address from which the AutoSupport messages are sent. To generate node-specific 'from' addresses, enable '-node-specific-from' parameter via ONTAP CLI. <ul style="list-style-type: none"> <li>example: <a href="mailto:postmaster@example.com">postmaster@example.com</a></li> <li>format: email</li> </ul>
is_minimal	boolean	Specifies whether the system information is collected in compliant form, to remove private data or in complete form, to enhance diagnostics.
issues	array[ <a href="#">autosupport_issues</a> ]	A list of nodes in the cluster with connectivity issues to HTTP/SMTP/AOD AutoSupport destinations along with the corresponding error descriptions and corrective actions.
mail_hosts	array[string]	The names of the mail servers used to deliver AutoSupport messages via SMTP.
partner_addresses	array[string]	The list of partner addresses.
proxy_url	string	Proxy server for AutoSupport message delivery via HTTP/S. Optionally specify a username/password for authentication with the proxy server.
to	array[string]	The e-mail addresses to which the AutoSupport messages are sent.

<b>Name</b>	<b>Type</b>	<b>Description</b>
transport	string	The name of the transport protocol used to deliver AutoSupport messages.

## Example response

```
{
  "contact_support": 1,
  "enabled": 1,
  "from": "<a href="
mailto:postmaster@example.com">postmaster@example.com</a>",
  "is_minimal": 1,
  "issues": [
    {
      "corrective_action": {
        "code": "53149746",
        "message": "Check the hostname of the SMTP server"
      },
      "issue": {
        "code": "53149746",
        "message": "SMTP connectivity check failed for destination:
mailhost. Error: Could not resolve host - 'mailhost'"
      },
      "node": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "name": "node1",
        "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
      }
    }
  ],
  "mail_hosts": [
    "mailhost1.example.com",
    "mailhost2.example.com"
  ],
  "partner_addresses": [
    "<a href="mailto:user1@partner.com">user1@partner.com</a>",
    "<a href="mailto:user2@partner.com">user2@partner.com</a>"
  ],
  "proxy_url": "https://proxy.company.com",
  "to": [
    "<a href="mailto:user1@example.com">user1@example.com</a>",
    "<a href="mailto:user2@example.com">user2@example.com</a>"
  ],
  "transport": "smtp"
}
```

## Error

Status: Default, Error

Name	Type	Description
error	error	

## Example error

```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

## Definitions

## See Definitions

autosupport\_connectivity\_corrective\_action

Name	Type	Description
code	string	Corrective action code
message	string	Corrective action message. The corrective action might contain commands which needs to be executed on the ONTAP CLI. <ul style="list-style-type: none"><li>• example: Check the hostname of the SMTP server</li><li>• readOnly: 1</li></ul>

autosupport\_connectivity\_issue

Name	Type	Description
code	string	Error code
message	string	Error message

href

Name	Type	Description
href	string	

\_links

Name	Type	Description
self	<a href="#">href</a>	

node

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	
uuid	string	

autosupport\_issues

Name	Type	Description
corrective_action	<a href="#">autosupport_connectivity_corrective_action</a>	
issue	<a href="#">autosupport_connectivity_issue</a>	
node	<a href="#">node</a>	

error\_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

error

Name	Type	Description
arguments	array[ <a href="#">error_arguments</a> ]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

## Update AutoSupport configuration for an entire cluster

PATCH `/support/autosupport`

Updates the AutoSupport configuration for the entire cluster.

### Related ONTAP commands

- `system node autosupport modify`

### Learn more

- [DOC /support/autosupport](#)

### Request Body

Name	Type	Description
contact_support	boolean	Specifies whether to send the AutoSupport messages to vendor support.
enabled	boolean	Specifies whether the AutoSupport daemon is enabled. When this setting is disabled, delivery of all AutoSupport messages is turned off.
from	string	The e-mail address from which the AutoSupport messages are sent. To generate node-specific 'from' addresses, enable '-node-specific-from' parameter via ONTAP CLI. <ul style="list-style-type: none"> <li>example: <a href="mailto:postmaster@example.com">postmaster@example.com</a></li> <li>format: email</li> </ul>
is_minimal	boolean	Specifies whether the system information is collected in compliant form, to remove private data or in complete form, to enhance diagnostics.
issues	array[ <a href="#">autosupport_issues</a> ]	A list of nodes in the cluster with connectivity issues to HTTP/SMTP/AOD AutoSupport destinations along with the corresponding error descriptions and corrective actions.
mail_hosts	array[string]	The names of the mail servers used to deliver AutoSupport messages via SMTP.
partner_addresses	array[string]	The list of partner addresses.
proxy_url	string	Proxy server for AutoSupport message delivery via HTTP/S. Optionally specify a username/password for authentication with the proxy server.
to	array[string]	The e-mail addresses to which the AutoSupport messages are sent.



<b>Name</b>	<b>Type</b>	<b>Description</b>
transport	string	The name of the transport protocol used to deliver AutoSupport messages.

## Example request

```
{
  "contact_support": 1,
  "enabled": 1,
  "from": "<a href="
mailto:postmaster@example.com">postmaster@example.com</a>",
  "is_minimal": 1,
  "issues": [
    {
      "corrective_action": {
        "code": "53149746",
        "message": "Check the hostname of the SMTP server"
      },
      "issue": {
        "code": "53149746",
        "message": "SMTP connectivity check failed for destination:
mailhost. Error: Could not resolve host - 'mailhost'"
      },
      "node": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "name": "node1",
        "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
      }
    }
  ],
  "mail_hosts": [
    "mailhost1.example.com",
    "mailhost2.example.com"
  ],
  "partner_addresses": [
    "<a href="mailto:user1@partner.com">user1@partner.com</a>",
    "<a href="mailto:user2@partner.com">user2@partner.com</a>"
  ],
  "proxy_url": "https://proxy.company.com",
  "to": [
    "<a href="mailto:user1@example.com">user1@example.com</a>",
    "<a href="mailto:user2@example.com">user2@example.com</a>"
  ],
  "transport": "smtp"
}
```

## Response

Status: 200, Ok

## Error

Status: Default

## ONTAP Error Response Codes

Error Code	Description
8650862	The SMTP mail host provided cannot be empty
8650863	A maximum of 5 SMTP mail hosts can be provided
8650864	A maximum of 5 email addresses can be provided
8650865	A maximum of 5 partner email addresses can be provided
53149727	The proxy URI provided is invalid
53149728	The mailhost URI provided is invalid

Name	Type	Description
error	error	

## Example error

```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

**Definitions**

## See Definitions

autosupport\_connectivity\_corrective\_action

Name	Type	Description
code	string	Corrective action code
message	string	Corrective action message. The corrective action might contain commands which needs to be executed on the ONTAP CLI. <ul style="list-style-type: none"><li>• example: Check the hostname of the SMTP server</li><li>• readOnly: 1</li></ul>

autosupport\_connectivity\_issue

Name	Type	Description
code	string	Error code
message	string	Error message

href

Name	Type	Description
href	string	

\_links

Name	Type	Description
self	<a href="#">href</a>	

node

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	
uuid	string	

autosupport\_issues

Name	Type	Description
corrective_action	<a href="#">autosupport_connectivity_corrective_action</a>	
issue	<a href="#">autosupport_connectivity_issue</a>	
node	<a href="#">node</a>	

#### autosupport

Name	Type	Description
contact_support	boolean	Specifies whether to send the AutoSupport messages to vendor support.
enabled	boolean	Specifies whether the AutoSupport daemon is enabled. When this setting is disabled, delivery of all AutoSupport messages is turned off.
from	string	The e-mail address from which the AutoSupport messages are sent. To generate node-specific 'from' addresses, enable '-node-specific-from' parameter via ONTAP CLI. <ul style="list-style-type: none"> <li>example: <a href="mailto:postmaster@example.com">postmaster@example.com</a></li> <li>format: email</li> </ul>
is_minimal	boolean	Specifies whether the system information is collected in compliant form, to remove private data or in complete form, to enhance diagnostics.
issues	array[ <a href="#">autosupport_issues</a> ]	A list of nodes in the cluster with connectivity issues to HTTP/SMTP/AOD AutoSupport destinations along with the corresponding error descriptions and corrective actions.
mail_hosts	array[string]	The names of the mail servers used to deliver AutoSupport messages via SMTP.

Name	Type	Description
partner_addresses	array[string]	The list of partner addresses.
proxy_url	string	Proxy server for AutoSupport message delivery via HTTP/S. Optionally specify a username/password for authentication with the proxy server.
to	array[string]	The e-mail addresses to which the AutoSupport messages are sent.
transport	string	The name of the transport protocol used to deliver AutoSupport messages.

#### error\_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

#### error

Name	Type	Description
arguments	array[ <a href="#">error_arguments</a> ]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

## Manage AutoSupport messages

### Support AutoSupport messages endpoint overview

#### Overview

This API is used to invoke and retrieve AutoSupport messages from the nodes in the cluster.

This API supports POST and GET calls. A POST call is used to invoke AutoSupport and a GET call is used to retrieve AutoSupport messages.

## Examples

### Invoking an AutoSupport on all nodes in the cluster

The following example invokes an AutoSupport on every node in the cluster. Note that AutoSupport is invoked on all nodes in the cluster if the `node` param is omitted. Also, note that the `subject` line is the same when invoking on all nodes.

By default, the response is an empty object. If `return_records=true` is passed in the request, the response includes information about the node and the index of the invoked AutoSupport message.

```
# The API:
POST /support/autosupport/messages

# The call:
curl -X POST "https://<mgmt-
ip>/api/support/autosupport/messages?return_records=true" -H "accept:
application/hal+json" -H "Content-Type: application/json" -d "{
\"message\": \"test_msg\", \"type\": \"all\"}"

# The response:
201 CREATED
{
  "num_records": 2,
  "records": [
    {
      "index": 4,
      "node": {
        "name": "node1",
        "uuid": "092e0298-f250-11e8-9a05-005056bb6666",
        "_links": {
          "self": {
            "href": "/api/cluster/nodes/092e0298-f250-11e8-9a05-
005056bb6666"
          }
        }
      },
      "_links": {
        "self": {
          "href": "/api/support/autosupport/messages/092e0298-f250-11e8-
9a05-005056bb6666/4"
        }
      }
    }
  ]
}
```



```

},
{
  "index": 2,
  "node": {
    "name": "node2",
    "uuid": "e47d2630-f250-11e8-b186-005056bb5cab",
    "_links": {
      "self": {
        "href": "/api/cluster/nodes/e47d2630-f250-11e8-b186-005056bb5cab"
      }
    }
  },
  "_links": {
    "self": {
      "href": "/api/support/autosupport/messages/e47d2630-f250-11e8-b186-005056bb5cab/2"
    }
  }
}
],
"_links": {
  "self": {
    "href": "/api/support/autosupport/messages/"
  }
}
}
}

```

### Invoking an AutoSupport on a single node

The following examples invoke an AutoSupport on a single node in the cluster. Note that AutoSupport is invoked on all nodes in the cluster if the `node` param is omitted. You can specify the node-name with either `node` or `node.name` parameter. You can also specify UUID of the node with the `node.uuid` parameter.

By default, the response is an empty object. If `return_records=true` is passed in the request, the response includes information about the node and the index of the invoked AutoSupport message.

```

# The API:
POST /support/autosupport/messages

# The call:
curl -X POST "https://<mgmt-ip>/api/support/autosupport/messages?return_records=true" -H "accept: application/hal+json" -H "Content-Type: application/json" -d "{
  \"message\": \"test_msg\", \"type\": \"test\", \"node\": \"node1\"}"

```

```

# The response:
201 CREATED
{
  "num_records": 1,
  "records": [
    {
      "index": 8,
      "node": {
        "name": "node1",
        "uuid": "092e0298-f250-11e8-9a05-005056bb6666",
        "_links": {
          "self": {
            "href": "/api/cluster/nodes/092e0298-f250-11e8-9a05-005056bb6666"
          }
        }
      },
      "_links": {
        "self": {
          "href": "/api/support/autosupport/messages/092e0298-f250-11e8-9a05-005056bb6666/8"
        }
      }
    }
  ],
  "_links": {
    "self": {
      "href": "/api/support/autosupport/messages/"
    }
  }
}

# The call:
curl -X POST "https://<mgmt-ip>/api/support/autosupport/messages?return_records=true" -H "accept: application/hal+json" -H "Content-Type: application/json" -d '{"message": "test_msg", "type": "test", "node.name": "node2"}'

# The response:
201 CREATED
{
  "num_records": 1,
  "records": [
    {
      "index": 4,

```

```

    "node": {
      "name": "node2",
      "uuid": "e47d2630-f250-11e8-b186-005056bb5cab",
      "_links": {
        "self": {
          "href": "/api/cluster/nodes/e47d2630-f250-11e8-b186-005056bb5cab"
        }
      }
    },
    "_links": {
      "self": {
        "href": "/api/support/autosupport/messages/e47d2630-f250-11e8-b186-005056bb5cab/4"
      }
    }
  ],
  "_links": {
    "self": {
      "href": "/api/support/autosupport/messages/"
    }
  }
}

# The call:
curl -X POST "https://<mgmt-ip>/api/support/autosupport/messages?return_records=true" -H "accept: application/hal+json" -H "Content-Type: application/json" -d '{"message": "test_msg", "type": "test", "node.uuid": "092e0298-f250-11e8-9a05-005056bb6666"}'

# The response:
201 CREATED
{
  "num_records": 1,
  "records": [
    {
      "index": 5,
      "node": {
        "name": "node1",
        "uuid": "092e0298-f250-11e8-9a05-005056bb6666",
        "_links": {
          "self": {
            "href": "/api/cluster/nodes/092e0298-f250-11e8-9a05-005056bb6666"
          }
        }
      }
    }
  ]
}

```

```

    }
  }
},
"_links": {
  "self": {
    "href": "/api/support/autosupport/messages/092e0298-f250-11e8-9a05-005056bb6666/5"
  }
}
}
],
"_links": {
  "self": {
    "href": "/api/support/autosupport/messages/"
  }
}
}
}

```

### Retrieving AutoSupport messages from all nodes in the cluster

The following example retrieves AutoSupport messages from every node in the cluster. Note that if the *fields=\** parameter is not specified, only node, index, and destination fields are returned. Filters can be added on the fields to limit the results.

```

# The API:
GET /support/autosupport/messages

# The call:
curl -X GET "https://<mgmt-
ip>/api/support/autosupport/messages?fields=*&return_timeout=15" -H
"accept: application/hal+json"

# The response:
200 OK
{
  "records": [
    {
      "node": {
        "uuid": "092e0298-f250-11e8-9a05-005056bb6666",
        "name": "node1",
        "_links": {
          "self": {
            "href": "/api/cluster/nodes/092e0298-f250-11e8-9a05-005056bb6666"
          }
        }
      }
    }
  ]
}

```

```

    }
  },
  "index": 1,
  "destination": "smtp",
  "subject": "USER_TRIGGERED (TEST:test_msg)",
  "state": "ignore",
  "generated_on": "2019-03-28T10:18:04-04:00",
  "_links": {
    "self": {
      "href": "/api/support/autosupport/messages/092e0298-f250-11e8-9a05-005056bb6666/1/smtp"
    }
  }
},
{
  "node": {
    "uuid": "092e0298-f250-11e8-9a05-005056bb6666",
    "name": "node1",
    "_links": {
      "self": {
        "href": "/api/cluster/nodes/092e0298-f250-11e8-9a05-005056bb6666"
      }
    }
  },
  "index": 1,
  "destination": "http",
  "subject": "USER_TRIGGERED (TEST:test_msg)",
  "state": "sent_successful",
  "generated_on": "2019-03-28T10:18:04-04:00",
  "_links": {
    "self": {
      "href": "/api/support/autosupport/messages/092e0298-f250-11e8-9a05-005056bb6666/1/http"
    }
  }
},
{
  "node": {
    "uuid": "092e0298-f250-11e8-9a05-005056bb6666",
    "name": "node1",
    "_links": {
      "self": {
        "href": "/api/cluster/nodes/092e0298-f250-11e8-9a05-005056bb6666"
      }
    }
  }
}

```

```

    }
  },
  "index": 1,
  "destination": "noteto",
  "subject": "USER_TRIGGERED (TEST:test_msg)",
  "state": "ignore",
  "generated_on": "2019-03-28T10:18:04-04:00",
  "_links": {
    "self": {
      "href": "/api/support/autosupport/messages/092e0298-f250-11e8-9a05-005056bb6666/1/noteto"
    }
  }
},
{
  "node": {
    "uuid": "e47d2630-f250-11e8-b186-005056bb5cab",
    "name": "node2",
    "_links": {
      "self": {
        "href": "/api/cluster/nodes/e47d2630-f250-11e8-b186-005056bb5cab"
      }
    }
  },
  "index": 1,
  "destination": "smtp",
  "subject": "USER_TRIGGERED (TEST:test_msg)",
  "state": "ignore",
  "generated_on": "2019-03-28T10:18:06-04:00",
  "_links": {
    "self": {
      "href": "/api/support/autosupport/messages/e47d2630-f250-11e8-b186-005056bb5cab/1/smtp"
    }
  }
},
{
  "node": {
    "uuid": "e47d2630-f250-11e8-b186-005056bb5cab",
    "name": "node2",
    "_links": {
      "self": {
        "href": "/api/cluster/nodes/e47d2630-f250-11e8-b186-005056bb5cab"
      }
    }
  }
}

```

```

    }
  },
  "index": 1,
  "destination": "http",
  "subject": "USER_TRIGGERED (TEST:test_msg)",
  "state": "sent_successful",
  "generated_on": "2019-03-28T10:18:06-04:00",
  "_links": {
    "self": {
      "href": "/api/support/autosupport/messages/e47d2630-f250-11e8-
b186-005056bb5cab/1/http"
    }
  },
  {
    "node": {
      "uuid": "e47d2630-f250-11e8-b186-005056bb5cab",
      "name": "node2",
      "_links": {
        "self": {
          "href": "/api/cluster/nodes/e47d2630-f250-11e8-b186-
005056bb5cab"
        }
      }
    },
    "index": 1,
    "destination": "noteto",
    "subject": "USER_TRIGGERED (TEST:test_msg)",
    "state": "ignore",
    "generated_on": "2019-03-28T10:18:06-04:00",
    "_links": {
      "self": {
        "href": "/api/support/autosupport/messages/e47d2630-f250-11e8-
b186-005056bb5cab/1/noteto"
      }
    }
  },
  ],
  "num_records": 6,
  "_links": {
    "self": {
      "href": "/api/support/autosupport/messages?fields=*&return_timeout=15"
    }
  }
}

```

---

## Retrieving AutoSupport messages from a specific node and has 'sent\_sucesful' state

The following example retrieves AutoSupport messages from a specific node in the cluster. Note that if the `fields=*` parameter is not specified, only `node`, `index`, and `destination` fields are returned. This example uses a filter on the `node.name` and `state` fields. Similar to this, filters can be added to any fields in the response.



```

# The API:
GET /support/autosupport/messages

# The call:
curl -X GET "https://<mgmt-
ip>/api/support/autosupport/messages?node.name=node1&state=sent_successful
&fields=*&return_timeout=15" -H "accept: application/hal+json"

# The response:
200 OK
{
"records": [
  {
    "node": {
      "uuid": "092e0298-f250-11e8-9a05-005056bb6666",
      "name": "node1",
      "_links": {
        "self": {
          "href": "/api/cluster/nodes/092e0298-f250-11e8-9a05-
005056bb6666"
        }
      }
    },
    "index": 1,
    "destination": "http",
    "subject": "USER_TRIGGERED (TEST:test_msg)",
    "state": "sent_successful",
    "generated_on": "2019-03-28T10:18:04-04:00",
    "_links": {
      "self": {
        "href": "/api/support/autosupport/messages/092e0298-f250-11e8-
9a05-005056bb6666/1/http"
      }
    }
  }
],
"num_records": 1,
"_links": {
  "self": {
    "href":
"/api/support/autosupport/messages?node.name=node1&state=sent_successful&f
ields=*&return_timeout=15"
  }
}
}

```

## Retrieve AutoSupport message history

GET /support/autosupport/messages

Retrieves AutoSupport message history from all nodes in the cluster.

There can be a short delay on invoked AutoSupport messages showing in history, dependent on processing of other AutoSupports in the queue.

### Related ONTAP commands

- `system node autosupport history show`

### Learn more

- [DOC /support/autosupport/messages](#)

### Parameters

Name	Type	In	Required	Description
node.uuid	string	query	False	Filter by node.uuid
node.name	string	query	False	Filter by node.name
destination	string	query	False	Filter by destination
state	string	query	False	Filter by state
generated_on	string	query	False	Filter by generated_on
index	integer	query	False	Filter by index
subject	string	query	False	Filter by subject
error.message	string	query	False	Filter by error.message
error.code	integer	query	False	Filter by error.code
fields	array[string]	query	False	Specify the fields to return.
max_records	integer	query	False	Limit the number of records returned.

Name	Type	In	Required	Description
return_timeout	integer	query	False	The number of seconds to allow the call to execute before returning. When iterating over a collection, the default is 15 seconds. ONTAP returns earlier if either max records or the end of the collection is reached.

## Response

Status: 200, Ok

Name	Type	Description
_links	<a href="#">_links</a>	
num_records	integer	Number of records
records	array[ <a href="#">autosupport_message</a> ]	List of messages invoked on the node

## Example response

```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "num_records": 3,
  "records": [
    {
      "destination": "http",
      "error": {
        "code": "53149746",
        "message": "Could not resolve host: test.com"
      },
      "generated_on": "2019-03-25 17:30:04 -0400",
      "index": 9,
      "message": "invoked_test_autosupport_rest",
      "node": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "name": "node1",
        "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
      },
      "state": "sent_successful",
      "subject": "WEEKLY_LOG",
      "type": "test",
      "uri": "http://1.2.3.4/delivery_uri"
    }
  ]
}
```

## Error

Status: Default, Error

Name	Type	Description
error	error	

### Example error

```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

### Definitions

## See Definitions

href

Name	Type	Description
href	string	

\_links

Name	Type	Description
next	<a href="#">href</a>	
self	<a href="#">href</a>	

error

Last error during delivery attempt. Empty if "status=sent-successful".

Name	Type	Description
code	integer	Error code
message	string	Error message

\_links

Name	Type	Description
self	<a href="#">href</a>	

node

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	
uuid	string	

autosupport\_message

Name	Type	Description
destination	string	Destination for the AutoSupport
error	<a href="#">error</a>	Last error during delivery attempt. Empty if "status=sent-successful".

Name	Type	Description
generated_on	string	Date and Time of AutoSupport generation in ISO-8601 format
index	integer	Sequence number of the AutoSupport
message	string	Message included in the AutoSupport subject
node	<a href="#">node</a>	
state	string	State of AutoSupport delivery
subject	string	Subject line for the AutoSupport
type	string	Type of AutoSupport collection to issue
uri	string	Alternate destination for the AutoSupport

#### error\_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

#### error

Name	Type	Description
arguments	array[ <a href="#">error_arguments</a> ]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

## Create and send an AutoSupport message

POST /support/autosupport/messages

Generates and sends an AutoSupport message with the provided input parameters.

Important note:

- By default, the response is an empty object. If `return_records=true` is passed in the request, the response includes information about the node and the index of the invoked AutoSupport message.

### Recommended optional properties

- `message` - Message included in the AutoSupport subject. Use to identify the generated AutoSupport message.

### Default property values

If not specified in POST, the following default property values are assigned:

- `type` - *all*
- `node.name` or `node.uuid` - Not specifying any of these properties invokes the AutoSupport on all nodes in the cluster.

### Related ONTAP commands

- `system node autosupport invoke`

### Learn more

- [DOC /support/autosupport/messages](#)

### Parameters

Name	Type	In	Required	Description
<code>return_records</code>	boolean	query	False	The default is false. If set to true, the records are returned.

### Request Body

Name	Type	Description
<code>destination</code>	string	Destination for the AutoSupport
<code>error</code>	<a href="#">error</a>	Last error during delivery attempt. Empty if "status=sent-successful".
<code>generated_on</code>	string	Date and Time of AutoSupport generation in ISO-8601 format



Name	Type	Description
index	integer	Sequence number of the AutoSupport
message	string	Message included in the AutoSupport subject
node	<a href="#">node</a>	
state	string	State of AutoSupport delivery
subject	string	Subject line for the AutoSupport
type	string	Type of AutoSupport collection to issue
uri	string	Alternate destination for the AutoSupport

### Example request

```
{
  "destination": "http",
  "error": {
    "code": "53149746",
    "message": "Could not resolve host: test.com"
  },
  "generated_on": "2019-03-25 17:30:04 -0400",
  "index": 9,
  "message": "invoked_test_autosupport_rest",
  "node": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "node1",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  },
  "state": "sent_successful",
  "subject": "WEEKLY_LOG",
  "type": "test",
  "uri": "http://1.2.3.4/delivery_uri"
}
```

## Response

Status: 201, Created

Name	Type	Description
_links	<a href="#">_links</a>	
num_records	integer	Number of records
records	array[ <a href="#">records</a> ]	

## Example response

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "num_records": 3,
  "records": [
    {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "index": 9,
      "node": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "name": "node1",
        "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
      }
    }
  ]
}
```

## Error

Status: Default

## ONTAP Error Response Codes

Error Code	Description
53149748	The destination URI provided for the invoked AutoSupport is invalid
655294464	The message parameter is not supported with performance AutoSupports

Name	Type	Description
error	<a href="#">error</a>	

## Example error

```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

## Definitions

## See Definitions

error

Last error during delivery attempt. Empty if "status=sent-successful".

Name	Type	Description
code	integer	Error code
message	string	Error message

href

Name	Type	Description
href	string	

\_links

Name	Type	Description
self	<a href="#">href</a>	

node

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	
uuid	string	

autosupport\_message

Name	Type	Description
destination	string	Destination for the AutoSupport
error	<a href="#">error</a>	Last error during delivery attempt. Empty if "status=sent-successful".
generated_on	string	Date and Time of AutoSupport generation in ISO-8601 format
index	integer	Sequence number of the AutoSupport
message	string	Message included in the AutoSupport subject

Name	Type	Description
node	<a href="#">node</a>	
state	string	State of AutoSupport delivery
subject	string	Subject line for the AutoSupport
type	string	Type of AutoSupport collection to issue
uri	string	Alternate destination for the AutoSupport

#### records

Name	Type	Description
<a href="#">_links</a>	<a href="#">_links</a>	
index	integer	Sequence number of the generated AutoSupport
node	<a href="#">node</a>	

#### error\_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

#### error

Name	Type	Description
arguments	array[ <a href="#">error_arguments</a> ]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

# Manage cluster configuration backup information

## Support configuration-backup endpoint overview

### Overview

This API retrieves the current settings for the configuration and updates configuration backup settings. The GET operation retrieves the current settings for the configuration and the PATCH operation updates the configuration backup settings.

### Examples

These examples show how to retrieve and update the configuration backup settings.

#### Retrieving the configuration backup settings

---

```
# The API:
/api/support/configuration-backup

# The call:
curl -X GET "https://<mgmt-ip>/api/support/configuration-backup" -H
"accept: application/hal+json"

# The response:
{
  "url": "http://10.224.65.198/backups",
  "username": "me",
  "_links": {
    "self": {
      "href": "/api/support/configuration-backup"
    }
  }
}
```

#### Updating the configuration backup settings

---

```
# The API:
/api/support/configuration-backup

# The call:
curl -X PATCH "https://<mgmt-ip>/api/support/configuration-backup" -H
"accept: application/hal+json"

# The body:
{
  "url": "http://10.224.65.198/new_backups",
  "username": "new_me",
  "password": "new_pass"
}

# The response header:
HTTP/1.1 200 OK
Date: Tue, 05 Jun 2018 18:17:48 GMT
Server: libzapid-httpd
Cache-Control: no-cache,no-store,must-revalidate
Content-Length: 3
Content-Type: application/hal+json
```

## Retrieve cluster configuration backup information

GET /support/configuration-backup

Retrieves the cluster configuration backup information.

### Learn more

- [DOC /support/configuration-backup](#)

### Parameters

Name	Type	In	Required	Description
fields	array[string]	query	False	Specify the fields to return.

### Response

Status: 200, Ok

Name	Type	Description
password	string	
url	string	An external backup location for the cluster configuration. This is mostly required for single node clusters where node and cluster configuration backups cannot be copied to other nodes in the cluster.
username	string	

### Example response

```
{
  "password": "yourpassword",
  "url": "http://10.224.65.198/backups",
  "username": "me"
}
```

### Error

Status: Default, Error

Name	Type	Description
error	error	



## Example error

```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

## Definitions

### See Definitions

#### error\_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

#### error

Name	Type	Description
arguments	array[ <a href="#">error_arguments</a> ]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

## Update cluster configuration backup information

PATCH /support/configuration-backup

Updates the cluster configuration backup information.

### Learn more

- [DOC /support/configuration-backup](#)

### Request Body

Name	Type	Description
password	string	
url	string	An external backup location for the cluster configuration. This is mostly required for single node clusters where node and cluster configuration backups cannot be copied to other nodes in the cluster.
username	string	

### Example request

```
{
  "password": "yourpassword",
  "url": "http://10.224.65.198/backups",
  "username": "me"
}
```

### Response

Status: 200, Ok

### Error

Status: Default

### ONTAP Error Response Codes

Error Code	Description
39387137	Invalid URL
39387138	Invalid URL Scheme

Name	Type	Description
error	error	

### Example error

```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

### Definitions

## See Definitions

### configuration\_backup

Name	Type	Description
password	string	
url	string	An external backup location for the cluster configuration. This is mostly required for single node clusters where node and cluster configuration backups cannot be copied to other nodes in the cluster.
username	string	

### error\_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

### error

Name	Type	Description
arguments	array[ <a href="#">error_arguments</a> ]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

## Manage EMS configuration

### Support EMS endpoint overview

#### Overview

The Event Management System (EMS) collects and processes events, and sends notification of the events through various reporting mechanisms. The following endpoints defined under '/support/ems', allow you to query a list of observed events, and configure which events you handle and how you are notified:

- /support/ems
- /support/ems/events
- /support/ems/messages
- /support/ems/filters
- /support/ems/filters/{name}/rules
- /support/ems/filters/{name}/rules/{index}
- /support/ems/destinations
- /support/ems/destinations/{name}

## Examples

### Configuring an e-mail destination

The following example configures EMS to send a support e-mail when a WAFL event is observed with an error severity.

### Configure the system-wide email parameters

```
# API
PATCH /support/ems

# JSON Body
{
  "mail_from": "administrator@mycompany.com",
  "mail_server": "smtp@mycompany.com"
}

# Response
200 OK
```

### Configuring a filter with an enclosed rule

```
# API
POST /support/ems/filters

# JSON Body
{
  "name": "critical-wafl",
  "rules": [
    {
      "index": 1,
      "type": "include",
      "message_criteria": {
        "name_pattern": "wafl.*",
        "severities": "emergency,error,alert"
      }
    }
  ]
}

# Response
201 Created
```

### Setting up an email destination

```
# API
POST /support/ems/destinations

# JSON Body
{
  "name": "Technician_Email",
  "type": "email",
  "destination": "technician@mycompany.com",
  "filters": [
    { "name" : "critical-wafl" }
  ]
}

# Response
201 Created
```

### Retrieve EMS configuration

GET /support/ems

Retrieves the EMS configuration.

## Related ONTAP commands

- `event config show`

## Learn more

- [DOC /support/ems](#)

## Parameters

Name	Type	In	Required	Description
fields	array[string]	query	False	Specify the fields to return.

## Response

Status: 200, Ok

Name	Type	Description
_links	<a href="#">_links</a>	
mail_from	string	Mail from
mail_server	string	Mail server (SMTP)
proxy_password	string	Password for HTTP/HTTPS proxy
proxy_url	string	HTTP/HTTPS proxy URL
proxy_user	string	User name for HTTP/HTTPS proxy

## Example response

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "mail_from": "<a href="
mailto:administrator@mycompany.com">administrator@mycompany.com</a>",
  "mail_server": "<a href="
mailto:mail@mycompany.com">mail@mycompany.com</a>",
  "proxy_password": "password",
  "proxy_url": "https://proxyserver.mycompany.com",
  "proxy_user": "proxy_user"
}
```

## Error

Status: Default, Error

Name	Type	Description
error	error	

## Example error

```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```



## Definitions

### See Definitions

href

Name	Type	Description
href	string	

\_links

Name	Type	Description
self	<a href="#">href</a>	

error\_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

error

Name	Type	Description
arguments	array[ <a href="#">error_arguments</a> ]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

## Update EMS configuration

PATCH /support/ems

Updates the EMS configuration.

### Related ONTAP commands

- `event config modify`

## Learn more

- [DOC /support/ems](#)

## Request Body

Name	Type	Description
_links	<a href="#">_links</a>	
mail_from	string	Mail from
mail_server	string	Mail server (SMTP)
proxy_password	string	Password for HTTP/HTTPS proxy
proxy_url	string	HTTP/HTTPS proxy URL
proxy_user	string	User name for HTTP/HTTPS proxy

## Example request

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "mail_from": "<a href="
mailto:administrator@mycompany.com">administrator@mycompany.com</a>",
  "mail_server": "<a href="
mailto:mail@mycompany.com">mail@mycompany.com</a>",
  "proxy_password": "password",
  "proxy_url": "https://proxyserver.mycompany.com",
  "proxy_user": "proxy_user"
}
```

## Response

Status: 200, Ok

## Error

Status: Default

## ONTAP Error Response Codes

Error Code	Description
983123	The validation of the mail server provided failed
983136	The proxy URL cannot contain a username or password
983137	The proxy URL provided is invalid
983139	The IPv6 proxy URL provided is invalid
983140	The proxy URL provided contains an invalid scheme. Supported schemes are 'http' or 'https'

Name	Type	Description
error	<a href="#">error</a>	

## Example error

```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

## Definitions

## See Definitions

href

Name	Type	Description
href	string	

\_links

Name	Type	Description
self	<a href="#">href</a>	

ems\_config

Name	Type	Description
_links	<a href="#">_links</a>	
mail_from	string	Mail from
mail_server	string	Mail server (SMTP)
proxy_password	string	Password for HTTP/HTTPS proxy
proxy_url	string	HTTP/HTTPS proxy URL
proxy_user	string	User name for HTTP/HTTPS proxy

error\_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

error

Name	Type	Description
arguments	array[ <a href="#">error_arguments</a> ]	Message arguments
code	string	Error code
message	string	Error message

Name	Type	Description
target	string	The target parameter that caused the error.

## Manage event destinations

### Support EMS destinations endpoint overview

#### Overview

Manages the list of destinations. A destination is defined by a type and a place to which an event's information is transmitted.

#### Destination Types

An EMS destination is defined by a single type, which is one of the following:

- email
- syslog
- rest\_api
- snmp

#### E-mail

The 'email' type allows you to define a mail box where information about an observed event is sent via SMTP. The address should be populated in the destination field and be a valid format. For example:

[administrator@mycompany.com](mailto:administrator@mycompany.com)

#### Syslog

The 'syslog' type allows you to specify a remote syslog server that can receive information about an observed event. The hostname or IP address should be populated in the destination field. For example:

syslog.mycompany.com, 192.168.1.1

#### Rest API

The 'rest\_api' type allows you to define a URL where information about an observed event is sent using the REST protocol. The URL should be populated in the destination field. The URL must contain a valid transmission schema which can be one of the following:

- http
- https Using the 'https' schema, you can configure a client-side certificate if mutual authentication is desired. For example: <http://rest.mycompany.com>, <https://192.168.1.1>

#### SNMP

The 'snmp' type describes addresses where information about an observed event is sent using SNMP traps. The system defines a default instance of this type and it is restricted to read-only. This type has the following limitations:

- Cannot create new destinations of type 'snmp'
- Cannot modify the default 'snmp' destination

SNMP trap host details need to be configured through one of the following:

Type	Command / API
CLI	'system snmp traphost'
ZAPI	'snmp-traphost-add' / 'snmp-traphost-delete'

## Examples

### Retrieving the list of active destinations

```
# API
GET /api/support/ems/destinations

# Response
200 OK

# JSON Body
{
  "records": [
    {
      "name": "snmp-traphost",
      "_links": {
        "self": {
          "href": "/api/support/ems/destinations/snmp-traphost"
        }
      }
    }
  ],
  "num_records": 1,
  "_links": {
    "self": {
      "href": "/api/support/ems/destinations"
    }
  }
}
```

### Creating a new 'email' destination

```

# API
POST /support/ems/destinations

# JSON Body
{
  "name": "Technician_Email",
  "type": "email",
  "destination": "technician@mycompany.com",
  "filters": [
    { "name" : "critical-wafl" }
  ]
}

# Response
201 Created

```

## Retrieve a collection of event destinations

GET /support/ems/destinations

Retrieves a collection of event destinations.

### Related ONTAP commands

- `event notification destination show`
- `event notification show`

### Learn more

- [DOC /support/ems/destinations](#)

### Parameters

Name	Type	In	Required	Description
certificate.serial_number	string	query	False	Filter by certificate.serial_number
certificate.ca	string	query	False	Filter by certificate.ca
destination	string	query	False	Filter by destination
filters.name	string	query	False	Filter by filters.name

Name	Type	In	Required	Description
name	string	query	False	Filter by name
type	string	query	False	Filter by type
fields	array[string]	query	False	Specify the fields to return.
max_records	integer	query	False	Limit the number of records returned.
return_timeout	integer	query	False	The number of seconds to allow the call to execute before returning. When iterating over a collection, the default is 15 seconds. ONTAP returns earlier if either max records or the end of the collection is reached.
return_records	boolean	query	False	The default is true for GET calls. When set to false, only the number of records is returned.
order_by	array[string]	query	False	Order results by specified fields and optional [asc

## Response

Status: 200, Ok

Name	Type	Description
_links	<a href="#">_links</a>	
num_records	integer	Number of records
records	array[ <a href="#">records</a> ]	



## Example response

```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "num_records": 3,
  "records": [
    {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "certificate": {
        "ca": "VeriSign",
        "serial_number": 1234567890
      },
      "destination": "<a href="
mailto:administrator@mycompany.com">administrator@mycompany.com</a>",
      "filters": [
        {
          "_links": {
            "self": {
              "href": "/api/resourcelink"
            }
          },
          "name": "important-events"
        }
      ],
      "name": "Admin_Email",
      "type": "email"
    }
  ]
}
```

## Error

Status: Default, Error

Name	Type	Description
error	error	

### Example error

```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

### Definitions

## See Definitions

href

Name	Type	Description
href	string	

\_links

Name	Type	Description
next	<a href="#">href</a>	
self	<a href="#">href</a>	

\_links

Name	Type	Description
self	<a href="#">href</a>	

certificate

Certificate information is valid for the "rest\_api" type.

Name	Type	Description
ca	string	Client certificate issuing CA
serial_number	string	Client certificate serial number

filters

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	

records

Name	Type	Description
_links	<a href="#">_links</a>	
certificate	<a href="#">certificate</a>	Certificate information is valid for the "rest_api" type.
destination	string	Event destination
filters	array[ <a href="#">filters</a> ]	

Name	Type	Description
name	string	Destination name. Valid in POST.
type	string	Type of destination. Valid in POST.

#### error\_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

#### error

Name	Type	Description
arguments	array[ <a href="#">error_arguments</a> ]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

## Create an event destination

POST /support/ems/destinations

Creates an event destination.

### Required properties

- `name` - String that uniquely identifies the destination.
- `type` - Type of destination that is to be created.
- `destination` - String that identifies the destination. The contents of this field changes depending on type.

### Recommended optional properties

- `filters.name` - List of filter names that should direct to this destination.
- `certificate` - When specifying a rest api destination, a client certificate can be provided.

## Related ONTAP commands

- `event notification destination create`
- `event notification create`

## Learn more

- [DOC /support/ems/destinations](#)

## Request Body

Name	Type	Description
<code>_links</code>	<code><a href="#">_links</a></code>	
<code>certificate</code>	<code><a href="#">certificate</a></code>	Certificate information is valid for the "rest_api" type.
<code>destination</code>	string	Event destination
<code>filters</code>	array[ <code><a href="#">filters</a></code> ]	
<code>name</code>	string	Destination name. Valid in POST.
<code>type</code>	string	Type of destination. Valid in POST.

## Example request

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "certificate": {
    "ca": "VeriSign",
    "serial_number": 1234567890
  },
  "destination": "<a href="
mailto:administrator@mycompany.com">administrator@mycompany.com</a>",
  "filters": [
    {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "important-events"
    }
  ],
  "name": "Admin_Email",
  "type": "email"
}
```

## Response

Status: 201, Created

Name	Type	Description
_links	<a href="#">_links</a>	
num_records	integer	Number of records
records	array[ <a href="#">records</a> ]	

## Example response

```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "num_records": 3,
  "records": [
    {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "certificate": {
        "ca": "VeriSign",
        "serial_number": 1234567890
      },
      "destination": "<a href="
mailto:administrator@mycompany.com">administrator@mycompany.com</a>",
      "filters": [
        {
          "_links": {
            "self": {
              "href": "/api/resourcelink"
            }
          },
          "name": "important-events"
        }
      ],
      "name": "Admin_Email",
      "type": "email"
    }
  ]
}
```

## Error

Status: Default

## ONTAP Error Response Codes

Error Code	Description
983088	The destination name provided cannot be empty
983089	The destination name provided cannot contain spaces
983094	The destination name provided is invalid. The destination name must contain between 2 and 64 characters and start and end with an alphanumeric symbol or _(underscore). The allowed special characters are _(underscore) and -(hyphen)
983104	The syslog destination provided is invalid
983116	The number of notifications has reached maximum capacity
983117	The number of destinations has reached maximum capacity
983129	The rest-api destination provided must contain a valid scheme, such as http// or https//
983130	The rest-api destination provided contains an invalid URL
983131	The rest-api destination provided contains an invalid IPv6 URL
983144	The security certificate information provided is incomplete. Provide the certificate and serial number
983145	The rest-api destination provided has an 'http://' scheme. It is invalid to provide certificate information
983149	New SNMP destinations cannot be created
983151	A property provided cannot be configured on the requested destination type
983152	Default destinations cannot be modified or removed
983153	The security certificate provided does not exist
983154	The necessary private key is not installed on the system

Name	Type	Description
error	error	



## Example error

```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

## Definitions

## See Definitions

href

Name	Type	Description
href	string	

\_links

Name	Type	Description
self	<a href="#">href</a>	

certificate

Certificate information is valid for the "rest\_api" type.

Name	Type	Description
ca	string	Client certificate issuing CA
serial_number	string	Client certificate serial number

filters

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	

ems\_destination

Name	Type	Description
_links	<a href="#">_links</a>	
certificate	<a href="#">certificate</a>	Certificate information is valid for the "rest_api" type.
destination	string	Event destination
filters	array[ <a href="#">filters</a> ]	
name	string	Destination name. Valid in POST.
type	string	Type of destination. Valid in POST.

\_links

Name	Type	Description
next	<a href="#">href</a>	
self	<a href="#">href</a>	

records

Name	Type	Description
_links	<a href="#">_links</a>	
certificate	<a href="#">certificate</a>	Certificate information is valid for the "rest_api" type.
destination	string	Event destination
filters	array[ <a href="#">filters</a> ]	
name	string	Destination name. Valid in POST.
type	string	Type of destination. Valid in POST.

error\_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

error

Name	Type	Description
arguments	array[ <a href="#">error_arguments</a> ]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

## Manage an event destination instance

## Support EMS destinations name endpoint overview

### Overview

Manages a specific instance of a destination. There are limits to the information that can be modified once a destination is created. For example, a destination's type cannot be changed but the underlying details of the type can be modified. See the documentation for [/support/ems/destinations](#) for details on the various fields in a destination.

### Examples

#### Retrieving a specific destination instance

```
# API
GET /api/support/ems/destinations/snmp-traphost

# Response
200 OK

# JSON Body
{
  "name": "snmp-traphost",
  "type": "snmp",
  "destination": "",
  "filters": [
    {
      "name": "default-trap-events",
      "_links": {
        "self": {
          "href": "/api/support/ems/filters/default-trap-events"
        }
      }
    }
  ],
  "_links": {
    "self": {
      "href": "/api/support/ems/destinations/snmp-traphost"
    }
  }
}
```

#### Updating an existing destination (change of e-mail address)

```
# API
PATCH /api/support/ems/destinations/test-destination

# JSON Body
{
  "destination": "support@mycompany.com"
}

# Response
200 OK
```

### Deleting an existing destination

```
# API
DELETE /api/support/ems/destinations/test-destination

# Response
200 OK
```

## Delete an event destination

DELETE /support/ems/destinations/{name}

Deletes an event destination.

### Related ONTAP commands

- event notification destination delete
- event notification delete

### Learn more

- [DOC /support/ems/destinations/{name}](#)

### Parameters

Name	Type	In	Required	Description
name	string	path	True	

### Response

```
Status: 200, Ok
```

## Error

Status: Default

### ONTAP Error Response Codes

Error Code	Description
983152	Default destinations cannot be modified or removed

Name	Type	Description
error	error	

### Example error

```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

## Definitions

## See Definitions

### error\_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

### error

Name	Type	Description
arguments	array[ <a href="#">error_arguments</a> ]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

## Retrieve an event destination

GET /support/ems/destinations/{name}

Retrieves event destinations.

### Related ONTAP commands

- `event notification destination show`
- `event notification show`

### Learn more

- [DOC /support/ems/destinations/{name}](#)

### Parameters

Name	Type	In	Required	Description
name	string	path	True	Destination name
fields	array[string]	query	False	Specify the fields to return.

## Response

Status: 200, Ok

Name	Type	Description
_links	<a href="#">_links</a>	
certificate	<a href="#">certificate</a>	Certificate information is valid for the "rest_api" type.
destination	string	Event destination
filters	array[ <a href="#">filters</a> ]	
name	string	Destination name. Valid in POST.
type	string	Type of destination. Valid in POST.



## Example response

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "certificate": {
    "ca": "VeriSign",
    "serial_number": 1234567890
  },
  "destination": "<a href="
mailto:administrator@mycompany.com">administrator@mycompany.com</a>",
  "filters": [
    {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "important-events"
    }
  ],
  "name": "Admin_Email",
  "type": "email"
}
```

## Error

Status: Default, Error

Name	Type	Description
error	error	

## Example error

```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

## Definitions

## See Definitions

href

Name	Type	Description
href	string	

\_links

Name	Type	Description
self	<a href="#">href</a>	

certificate

Certificate information is valid for the "rest\_api" type.

Name	Type	Description
ca	string	Client certificate issuing CA
serial_number	string	Client certificate serial number

filters

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	

error\_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

error

Name	Type	Description
arguments	array[ <a href="#">error_arguments</a> ]	Message arguments
code	string	Error code
message	string	Error message

Name	Type	Description
target	string	The target parameter that caused the error.

## Update an event destination

PATCH /support/ems/destinations/{name}

Updates an event destination.

### Recommended optional properties

- `filters.name` - New list of filters that should direct to this destination. The existing list is discarded.
- `certificate` - New certificate parameters when the destination type is `rest api`.

### Related ONTAP commands

- `event notification destination modify`
- `event notification modify`

### Learn more

- [DOC /support/ems/destinations/{name}](#)

### Parameters

Name	Type	In	Required	Description
name	string	path	True	Destination name

### Request Body

Name	Type	Description
<code>_links</code>	<code>_links</code>	
<code>certificate</code>	<code>certificate</code>	Certificate information is valid for the "rest_api" type.
<code>destination</code>	string	Event destination
<code>filters</code>	array[ <code>filters</code> ]	
<code>name</code>	string	Destination name. Valid in POST.
<code>type</code>	string	Type of destination. Valid in POST.

## Example request

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "certificate": {
    "ca": "VeriSign",
    "serial_number": 1234567890
  },
  "destination": "<a href="
mailto:administrator@mycompany.com">administrator@mycompany.com</a>",
  "filters": [
    {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "important-events"
    }
  ],
  "name": "Admin_Email",
  "type": "email"
}
```

## Response

Status: 200, Ok

Name	Type	Description
_links	<a href="#">_links</a>	
certificate	<a href="#">certificate</a>	Certificate information is valid for the "rest_api" type.
destination	string	Event destination
filters	array[ <a href="#">filters</a> ]	
name	string	Destination name. Valid in POST.

Name	Type	Description
type	string	Type of destination. Valid in POST.

### Example response

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "certificate": {
    "ca": "VeriSign",
    "serial_number": 1234567890
  },
  "destination": "<a href="
mailto:administrator@mycompany.com">administrator@mycompany.com</a>",
  "filters": [
    {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "important-events"
    }
  ],
  "name": "Admin_Email",
  "type": "email"
}
```

### Error

Status: Default

### ONTAP Error Response Codes

Error Code	Description
983088	The destination name provided cannot be empty
983089	The destination name provided cannot contain spaces

Error Code	Description
983094	The destination name provided is invalid. The destination name must contain between 2 and 64 characters and start and end with an alphanumeric symbol or _(underscore). The allowed special characters are _(underscore) and -(hyphen)
983104	The syslog destination provided is invalid
983116	The number of notifications has reached maximum capacity
983117	The number of destinations has reached maximum capacity
983129	The rest-api destination must contain a valid scheme, such as http// or https//
983130	The rest-api destination provided contains an invalid URL
983131	The rest-api destination provided contains an invalid IPv6 URL
983142	The security certificate provided does not exist
983143	The private security key provided does not exist
983144	The security certificate information provided is incomplete. Provide the certificate and serial number
983145	The rest-api destination provided has an 'http://' scheme. It is invalid to provide certificate information
983150	The type of an existing destination cannot be changed
983151	A property provided cannot be configured on the requested destination type
983152	Default destinations cannot be modified or removed

Name	Type	Description
error	<a href="#">error</a>	

## Example error

```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

## Definitions



## See Definitions

href

Name	Type	Description
href	string	

\_links

Name	Type	Description
self	<a href="#">href</a>	

certificate

Certificate information is valid for the "rest\_api" type.

Name	Type	Description
ca	string	Client certificate issuing CA
serial_number	string	Client certificate serial number

filters

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	

ems\_destination

Name	Type	Description
_links	<a href="#">_links</a>	
certificate	<a href="#">certificate</a>	Certificate information is valid for the "rest_api" type.
destination	string	Event destination
filters	array[ <a href="#">filters</a> ]	
name	string	Destination name. Valid in POST.
type	string	Type of destination. Valid in POST.

error\_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

error

Name	Type	Description
arguments	array[ <a href="#">error_arguments</a> ]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

## Retrieve events

### Support EMS events endpoint overview

#### Overview

Queries a live collection of observed events on the system.

#### Example

Querying for the latest event received by EMS

```

# API
GET /api/support/ems/events?fields=message.name&max_records=1

# Response
200 OK

# JSON Body
{
  "records": [
    {
      "node": {
        "name": "node1",
        "uuid": "f087b8e3-99ac-11e8-b5a5-005056bb4ec7",
        "_links": {
          "self": {
            "href": "/api/cluster/nodes/f087b8e3-99ac-11e8-b5a5-005056bb4ec7"
          }
        }
      },
      "index": 661,
      "message": {
        "name": "raid.aggr.log.CP.count"
      },
      "_links": {
        "self": {
          "href": "/api/support/ems/events/node1/661"
        }
      }
    }
  ],
  "num_records": 1,
  "_links": {
    "self": {
      "href": "/api/support/ems/events?fields=message.name&max_records=1"
    }
  }
}

```

## Retrieve observed events

GET /support/ems/events

Retrieves a collection of observed events.

## Related ONTAP commands

- `event log show`

## Learn more

- [DOC /support/ems/events](#)

## Parameters

Name	Type	In	Required	Description
source	string	query	False	Filter by source
log_message	string	query	False	Filter by log_message
message.name	string	query	False	Filter by message.name
message.severity	string	query	False	Filter by message.severity
index	integer	query	False	Filter by index
time	string	query	False	Filter by time
parameters.name	string	query	False	Filter by parameters.name
parameters.value	string	query	False	Filter by parameters.value
node.name	string	query	False	Filter by node.name
node.uuid	string	query	False	Filter by node.uuid
fields	array[string]	query	False	Specify the fields to return.
max_records	integer	query	False	Limit the number of records returned.
return_records	boolean	query	False	The default is true for GET calls. When set to false, only the number of records is returned.

Name	Type	In	Required	Description
return_timeout	integer	query	False	The number of seconds to allow the call to execute before returning. When iterating over a collection, the default is 15 seconds. ONTAP returns earlier if either max records or the end of the collection is reached.
order_by	array[string]	query	False	Order results by specified fields and optional [asc

## Response

Status: 200, Ok

Name	Type	Description
_links	<a href="#">_links</a>	
num_records	integer	Number of records
records	array[ <a href="#">records</a> ]	

## Example response

```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "num_records": 3,
  "records": [
    {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "index": 1,
      "log_message": "string",
      "message": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "name": "callhome.spares.low",
        "severity": "emergency"
      },
      "node": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "name": "node1",
        "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
      },
      "parameters": [
        {
          "name": "numOps",
          "value": 123
        }
      ],
      "source": "string",

```

```
    "time": "string"
  }
]
}
```

## Error

Status: Default, Error

Name	Type	Description
error	error	

## Example error

```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

## Definitions

## See Definitions

href

Name	Type	Description
href	string	

\_links

Name	Type	Description
next	<a href="#">href</a>	
self	<a href="#">href</a>	

\_links

Name	Type	Description
self	<a href="#">href</a>	

message

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	Message name of the event. Returned by default.
severity	string	Severity of the event. Returned by default.

node

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	
uuid	string	

parameters

Name	Type	Description
name	string	Name of parameter
value	string	Value of parameter

records



Name	Type	Description
<a href="#">_links</a>	<a href="#">_links</a>	
index	integer	Index of the event. Returned by default.
log_message	string	A formatted text string populated with parameter details. Returned by default.
message	<a href="#">message</a>	
node	<a href="#">node</a>	
parameters	array[ <a href="#">parameters</a> ]	A list of parameters provided with the EMS event.
source	string	Source
time	string	Timestamp of the event. Returned by default.

#### error\_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

#### error

Name	Type	Description
arguments	array[ <a href="#">error_arguments</a> ]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

## Create or retrieve event filters

# Support EMS filters endpoint overview

## Overview

Manages the list of available filters. A filter is a named collection of rules that enable the system to identify events that require additional handling. A filter is linked with a destination to which the system sends specific events.

When an event is processed by EMS, each filter is evaluated for a match. More than one filter can handle a single event.

## Filter rule position

A filter's rules are evaluated sequentially, according to their position index. When a rule is added or modified, the position can be set to customize the filter's logic. If no position is specified, a new rule is appended to the end of the list.

## Filter rule types

A filter rule can be one of two types: 'include' or 'exclude'. If an event matches the criteria of the rule, the type dictates whether it should be forwarded to the destination or ignored.

## Filter rule matching criteria

A valid filter rule must contain at least one set of criteria.

## Name pattern

A name pattern is matched against an event's name. Multiple characters can be matched using the wildcard character '\*'.

## Severity

The severity pattern is matched against an event's severity. Multiple severities can be specified in a comma separated list. A single wildcard '\*' will match all severities. Valid values are:

- emergency
- alert
- error
- notice
- informational
- debug

## SNMP trap type

The SNMP trap type pattern is matched against an event's trap type. Multiple trap types can be specified in a comma separated list. A single wildcard '\*' matches all trap types. Valid values are:

- standard
- built\_in
- severity\_based

## Examples

### Retrieving a list of filters whose names contain a hyphen

```
# API
GET /api/support/ems/filters?name=*-*

# Response
200 OK

# JSON Body
{
  "records": [
    {
      "name": "default-trap-events",
      "_links": {
        "self": {
          "href": "/api/support/ems/filters/default-trap-events"
        }
      }
    },
    {
      "name": "important-events",
      "_links": {
        "self": {
          "href": "/api/support/ems/filters/important-events"
        }
      }
    },
    {
      "name": "no-info-debug-events",
      "_links": {
        "self": {
          "href": "/api/support/ems/filters/no-info-debug-events"
        }
      }
    }
  ],
  "num_records": 3,
  "_links": {
    "self": {
      "href": "/api/support/ems/filters?name=*-*"
    }
  }
}
```

## Creating a new filter using various matching criteria

```
# API
POST /api/support/ems/filters

# JSON Body
{
  "name": "test-filter",
  "rules": [
    {
      "index": 1,
      "type": "include",
      "message_criteria": {
        "name_pattern": "LUN.*",
        "severities": "alert,error",
        "snmp_trap_types": "severity_based"
      }
    }
  ]
}

# Response
201 Created
```

## Retrieve event filters

GET /support/ems/filters

Retrieves a collection of event filters.

## Related ONTAP commands

- `event filter show`

## Learn more

- [DOC /support/ems/filters](#)

## Parameters

Name	Type	In	Required	Description
name	string	query	False	Filter by name
rules.message_criteria.severities	string	query	False	Filter by rules.message_criteria.severities

Name	Type	In	Required	Description
rules.message_criteria.name_pattern	string	query	False	Filter by rules.message_criteria.name_pattern
rules.message_criteria.snmp_trap_types	string	query	False	Filter by rules.message_criteria.snmp_trap_types
rules.type	string	query	False	Filter by rules.type
rules.index	integer	query	False	Filter by rules.index
fields	array[string]	query	False	Specify the fields to return.
max_records	integer	query	False	Limit the number of records returned.
return_records	boolean	query	False	The default is true for GET calls. When set to false, only the number of records is returned.
return_timeout	integer	query	False	The number of seconds to allow the call to execute before returning. When iterating over a collection, the default is 15 seconds. ONTAP returns earlier if either max records or the end of the collection is reached.
order_by	array[string]	query	False	Order results by specified fields and optional [asc

## Response

Status: 200, Ok

Name	Type	Description
_links	<a href="#">_links</a>	
num_records	integer	Number of records
records	array[ <a href="#">records</a> ]	

## Example response

```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "num_records": 3,
  "records": [
    {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "snmp-traphost",
      "rules": [
        {
          "_links": {
            "self": {
              "href": "/api/resourcelink"
            }
          },
          "index": 1,
          "message_criteria": {
            "_links": {
              "related": {
                "href": "/api/resourcelink"
              }
            },
            "name_pattern": "callhome.*",
            "severities": "error,informational",
            "snmp_trap_types": "standard|built_in"
          },
          "type": "include"
        }
      ]
    }
  ]
}
```

## Error

Status: Default, Error

Name	Type	Description
error	<a href="#">error</a>	

## Example error

```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

## Definitions



## See Definitions

href

Name	Type	Description
href	string	

\_links

Name	Type	Description
next	<a href="#">href</a>	
self	<a href="#">href</a>	

\_links

Name	Type	Description
self	<a href="#">href</a>	

\_links

Name	Type	Description
related	<a href="#">href</a>	

message\_criteria

Matching message definitions for the filter. A property must be specified.

Name	Type	Description
_links	<a href="#">_links</a>	
name_pattern	string	Message name filter on which to match. Supports wildcards. Defaults to * if not specified.
severities	string	A comma-separated list of severities or a wildcard.
snmp_trap_types	string	A comma separated list of snmp_trap_types or a wildcard.

rules

Rule for an event filter

Name	Type	Description
_links	<a href="#">_links</a>	

Name	Type	Description
index	integer	Rule index. Rules are evaluated in ascending order. If a rule's index order is not specified during creation, the rule is appended to the end of the list.
message_criteria	<a href="#">message_criteria</a>	Matching message definitions for the filter. A property must be specified.
type	string	Rule type

#### records

Name	Type	Description
<a href="#">_links</a>	<a href="#">_links</a>	
name	string	Filter name
rules	array[ <a href="#">rules</a> ]	Array of event filter rules on which to match.

#### error\_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

#### error

Name	Type	Description
arguments	array[ <a href="#">error_arguments</a> ]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

## Create an event filter

POST /support/ems/filters

Creates an event filter.

### Required properties

- `name` - String that uniquely identifies the filter.

### Recommended optional properties

- `rules` - List of criteria which is used to match a filter with an event.

### Related ONTAP commands

- `event filter create`

### Learn more

- [DOC /support/ems/filters](#)

### Request Body

Name	Type	Description
<code>_links</code>	<a href="#">_links</a>	
<code>name</code>	string	Filter name
<code>rules</code>	array[ <a href="#">rules</a> ]	Array of event filter rules on which to match.

## Example request

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "name": "snmp-traphost",
  "rules": [
    {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "index": 1,
      "message_criteria": {
        "_links": {
          "related": {
            "href": "/api/resourcelink"
          }
        },
        "name_pattern": "callhome.*",
        "severities": "error,informational",
        "snmp_trap_types": "standard|built_in"
      },
      "type": "include"
    }
  ]
}
```

## Response

Status: 201, Created

Name	Type	Description
_links	<a href="#">_links</a>	
num_records	integer	Number of records
records	array[ <a href="#">records</a> ]	

## Example response

```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "num_records": 3,
  "records": [
    {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "snmp-traphost",
      "rules": [
        {
          "_links": {
            "self": {
              "href": "/api/resourcelink"
            }
          },
          "index": 1,
          "message_criteria": {
            "_links": {
              "related": {
                "href": "/api/resourcelink"
              }
            },
            "name_pattern": "callhome.*",
            "severities": "error,informational",
            "snmp_trap_types": "standard|built_in"
          },
          "type": "include"
        }
      ]
    }
  ]
}
```

## Error

Status: Default

### ONTAP Error Response Codes

Error Code	Description
983088	The filter name provided is empty
983089	The filter name provided cannot contain spaces
983092	The index of the rule provided is outside the allowed range for the filter provided
983094	The filter name provided is invalid. The filter name must contain between 2 and 64 characters and start and end with an alphanumeric symbol or (underscore). The allowed special characters are (underscore) and -(hyphen)
983095	The rule index provided is invalid for the filter provided
983101	No event is matched by the rule provided
983113	Default filters cannot be modified or removed
983114	The maximum number of filters is reached
983115	The maximum number of filter rules is reached
983126	A rule requires at least one name_pattern, severities, or snmp_trap_types to be defined
983127	A property cannot contain a combination of the wildcard character and other values
983128	An invalid value is provided for the property 'snmp_trap_types'
983146	An invalid value is provided for the property 'severities'
983147	The severity provided are not supported

Name	Type	Description
error	<a href="#">error</a>	

## Example error

```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

## Definitions

## See Definitions

href

Name	Type	Description
href	string	

\_links

Name	Type	Description
self	<a href="#">href</a>	

\_links

Name	Type	Description
related	<a href="#">href</a>	

message\_criteria

Matching message definitions for the filter. A property must be specified.

Name	Type	Description
_links	<a href="#">_links</a>	
name_pattern	string	Message name filter on which to match. Supports wildcards. Defaults to * if not specified.
severities	string	A comma-separated list of severities or a wildcard.
snmp_trap_types	string	A comma separated list of snmp_trap_types or a wildcard.

rules

Rule for an event filter

Name	Type	Description
_links	<a href="#">_links</a>	
index	integer	Rule index. Rules are evaluated in ascending order. If a rule's index order is not specified during creation, the rule is appended to the end of the list.



Name	Type	Description
message_criteria	<a href="#">message_criteria</a>	Matching message definitions for the filter. A property must be specified.
type	string	Rule type

#### ems\_filter

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	Filter name
rules	array[ <a href="#">rules</a> ]	Array of event filter rules on which to match.

#### \_links

Name	Type	Description
next	<a href="#">href</a>	
self	<a href="#">href</a>	

#### records

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	Filter name
rules	array[ <a href="#">rules</a> ]	Array of event filter rules on which to match.

#### error\_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

#### error

Name	Type	Description
arguments	array[ <a href="#">error_arguments</a> ]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

## Manage event filters

### Support EMS filters name endpoint overview

#### Overview

Manages a specific filter instance. See the documentation for </support/ems/filters> for details on the various fields.

#### Examples

##### Retrieving a specific filter instance

```
# API
GET /api/support/ems/filters/no-info-debug-events

# Response
200 OK

# JSON Body
{
  "name": "no-info-debug-events",
  "rules": [
    {
      "index": 1,
      "type": "include",
      "message_criteria": {
        "name_pattern": "*",
        "severities": "emergency,alert,error,notice",
        "snmp_trap_types": "*",
        "_links": {
          "related": {
            "href":
"/api/support/ems/messages?name=*&severity=emergency,alert,error,notice&snmp_trap_type=*"

```

```

    }
  },
  "_links": {
    "self": {
      "href": "/api/support/ems/filters/no-info-debug-events/rules/1"
    }
  },
  {
    "index": 2,
    "type": "exclude",
    "message_criteria": {
      "name_pattern": "*",
      "severities": "*",
      "snmp_trap_types": "*",
      "_links": {
        "related": {
          "href":
"/api/support/ems/messages?name=*&severity=*&snmp_trap_type="
        }
      }
    },
    "_links": {
      "self": {
        "href": "/api/support/ems/filters/no-info-debug-events/rules/2"
      }
    }
  }
],
"_links": {
  "self": {
    "href": "/api/support/ems/filters/no-info-debug-events"
  }
}
}

```

**Updating an existing filter with a new rule**

```

# API
PATCH /api/support/ems/filters/test-filter

# JSON Body
{
  "rules": [
    {
      "type": "include",
      "message_criteria": {
        "name_pattern": "waf1.*",
        "severities": "error"
      }
    }
  ]
}

# Response
200 OK

```

### Deleting an existing filter

```

# API
DELETE /api/support/ems/filters/test-filter

# Response
200 OK

```

## Delete an event filter

```
DELETE /support/ems/filters/{name}
```

Deletes an event filter.

### Related ONTAP commands

- `event filter delete`

### Learn more

- [DOC /support/ems/filters/{name}](#)

### Parameters

Name	Type	In	Required	Description
name	string	path	True	

## Response

Status: 200, Ok

## Error

Status: Default

## ONTAP Error Response Codes

Error Code	Description
983113	Default filters cannot be modified or removed

Name	Type	Description
error	error	

## Example error

```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

## Definitions

## See Definitions

### error\_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

### error

Name	Type	Description
arguments	array[ <a href="#">error_arguments</a> ]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

## Retrieve an event filter

GET /support/ems/filters/{name}

Retrieves an event filter.

### Related ONTAP commands

- `event filter show`

### Learn more

- [DOC /support/ems/filters/{name}](#)

### Parameters

Name	Type	In	Required	Description
name	string	path	True	Filter name
fields	array[string]	query	False	Specify the fields to return.

## Response

Status: 200, Ok

Name	Type	Description
<code>_links</code>	<code>_links</code>	
<code>name</code>	string	Filter name
<code>rules</code>	array[ <code>rules</code> ]	Array of event filter rules on which to match.

## Example response

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "name": "snmp-traphost",
  "rules": [
    {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "index": 1,
      "message_criteria": {
        "_links": {
          "related": {
            "href": "/api/resourcelink"
          }
        },
        "name_pattern": "callhome.*",
        "severities": "error,informational",
        "snmp_trap_types": "standard|built_in"
      },
      "type": "include"
    }
  ]
}
```

## Error

Status: Default, Error

Name	Type	Description
error	<a href="#">error</a>	

## Example error

```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

## Definitions



## See Definitions

href

Name	Type	Description
href	string	

\_links

Name	Type	Description
self	<a href="#">href</a>	

\_links

Name	Type	Description
related	<a href="#">href</a>	

message\_criteria

Matching message definitions for the filter. A property must be specified.

Name	Type	Description
_links	<a href="#">_links</a>	
name_pattern	string	Message name filter on which to match. Supports wildcards. Defaults to * if not specified.
severities	string	A comma-separated list of severities or a wildcard.
snmp_trap_types	string	A comma separated list of snmp_trap_types or a wildcard.

rules

Rule for an event filter

Name	Type	Description
_links	<a href="#">_links</a>	
index	integer	Rule index. Rules are evaluated in ascending order. If a rule's index order is not specified during creation, the rule is appended to the end of the list.

Name	Type	Description
message_criteria	<a href="#">message_criteria</a>	Matching message definitions for the filter. A property must be specified.
type	string	Rule type

#### error\_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

#### error

Name	Type	Description
arguments	array[ <a href="#">error_arguments</a> ]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

## Update an event filter

PATCH /support/ems/filters/{name}

Updates an event filter.

### Recommended optional properties

- `new_name` - New string that uniquely identifies a filter.
- `rules` - New list of criteria used to match the filter with an event. The existing list is discarded.

### Related ONTAP commands

- `event filter create`
- `event filter delete`
- `event filter rename`
- `event filter rule add`

- event filter rule delete
- event filter rule reorder

## Learn more

- [DOC /support/ems/filters/{name}](#)

## Parameters

Name	Type	In	Required	Description
name	string	path	True	Filter name
new_name	string	query	False	New filter name for renames. Valid in PATCH.

## Request Body

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	Filter name
rules	array[ <a href="#">rules</a> ]	Array of event filter rules on which to match.

## Example request

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "name": "snmp-traphost",
  "rules": [
    {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "index": 1,
      "message_criteria": {
        "_links": {
          "related": {
            "href": "/api/resourcelink"
          }
        },
        "name_pattern": "callhome.*",
        "severities": "error,informational",
        "snmp_trap_types": "standard|built_in"
      },
      "type": "include"
    }
  ]
}
```

## Response

Status: 200, Ok

## Error

Status: Default

## ONTAP Error Response Codes

Error Code	Description
983088	The filter name provided is empty
983089	The filter name provided cannot contain spaces
983092	The index of the rule provided is outside the allowed range for the filter provided
983094	The filter name provided is invalid. The filter name must contain between 2 and 64 characters and start and end with an alphanumeric symbol or (underscore). The allowed special characters are (underscore) and -(hyphen)
983095	The rule index provided is invalid for the filter provided
983101	No event is matched by the rule provided
983113	Default filters cannot be modified or removed
983114	The maximum number of filters is reached
983115	The maximum number of filter rules is reached
983126	A rule requires at least one of name_pattern, severities or snmp-trap-types to be defined
983127	A property cannot contain a combination of the wildcard characters and other values
983128	An invalid value is provided for the property 'snmp_trap_types'
983146	An invalid value is provided for the property 'severities'
983147	The severity levels provided are not supported

Name	Type	Description
error	error	

## Example error

```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

## Definitions

## See Definitions

href

Name	Type	Description
href	string	

\_links

Name	Type	Description
self	<a href="#">href</a>	

\_links

Name	Type	Description
related	<a href="#">href</a>	

message\_criteria

Matching message definitions for the filter. A property must be specified.

Name	Type	Description
_links	<a href="#">_links</a>	
name_pattern	string	Message name filter on which to match. Supports wildcards. Defaults to * if not specified.
severities	string	A comma-separated list of severities or a wildcard.
snmp_trap_types	string	A comma separated list of snmp_trap_types or a wildcard.

rules

Rule for an event filter

Name	Type	Description
_links	<a href="#">_links</a>	
index	integer	Rule index. Rules are evaluated in ascending order. If a rule's index order is not specified during creation, the rule is appended to the end of the list.

Name	Type	Description
message_criteria	<a href="#">message_criteria</a>	Matching message definitions for the filter. A property must be specified.
type	string	Rule type

#### ems\_filter

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	Filter name
rules	array[ <a href="#">rules</a> ]	Array of event filter rules on which to match.

#### error\_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

#### error

Name	Type	Description
arguments	array[ <a href="#">error_arguments</a> ]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

## Create or retrieve filter rules

### Support EMS filters name rules endpoint overview



## Overview

Manages the list of rules associated with a specific filter. A filter contains a list of rules that are evaluated to determine whether an event matches the filter. When a rule matches an event, the filter is considered a match. See the documentation for </support/ems/filters> for details on the various fields in a rule.

## Examples

### Retrieving the collection of rules connected to a filter

```
# API
GET /api/support/ems/filters/no-info-debug-events/rules

# Response
200 OK

# JSON Body
{
  "records": [
    {
      "index": 1,
      "_links": {
        "self": {
          "href": "/api/support/ems/filters/no-info-debug-events/rules/1"
        }
      }
    },
    {
      "index": 2,
      "_links": {
        "self": {
          "href": "/api/support/ems/filters/no-info-debug-events/rules/2"
        }
      }
    }
  ],
  "num_records": 2,
  "_links": {
    "self": {
      "href": "/api/support/ems/filters/no-info-debug-events/rules"
    }
  }
}
```

### Creating a new rule under an existing filter



The absence of a position index appends the rule to the end of the list.

```

# API
POST /api/support/ems/filters/test-filter/rules

# JSON Body
{
  "type": "include",
  "message_criteria": {
    "name_pattern": "wafl.*",
    "severities": "error,informational"
  }
}

# Response
201 Created

```

## Retrieve event filter rules

GET /support/ems/filters/{name}/rules

Retrieves event filter rules.

### Related ONTAP commands

- `event filter show`

### Learn more

- [DOC /support/ems/filters/{name}/rules](#)

### Parameters

Name	Type	In	Required	Description
name	string	path	True	Filter Name
message_criteria.severities	string	query	False	Filter by message_criteria.severities
message_criteria.name_pattern	string	query	False	Filter by message_criteria.name_pattern
message_criteria.snmp_trap_types	string	query	False	Filter by message_criteria.snmp_trap_types

Name	Type	In	Required	Description
type	string	query	False	Filter by type
index	integer	query	False	Filter by index
fields	array[string]	query	False	Specify the fields to return.
max_records	integer	query	False	Limit the number of records returned.
return_records	boolean	query	False	The default is true for GET calls. When set to false, only the number of records is returned.
return_timeout	integer	query	False	The number of seconds to allow the call to execute before returning. When iterating over a collection, the default is 15 seconds. ONTAP returns earlier if either max records or the end of the collection is reached.
order_by	array[string]	query	False	Order results by specified fields and optional [asc

## Response

Status: 200, Ok

Name	Type	Description
_links	<a href="#">_links</a>	
num_records	integer	Number of records
records	array[ <a href="#">records</a> ]	

## Example response

```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "num_records": 3,
  "records": [
    {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "index": 1,
      "message_criteria": {
        "_links": {
          "related": {
            "href": "/api/resourcelink"
          }
        },
        "name_pattern": "callhome.*",
        "severities": "error,informational",
        "snmp_trap_types": "standard|built_in"
      },
      "type": "include"
    }
  ]
}
```

## Error

Status: Default, Error

Name	Type	Description
error	error	

## Example error

```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

## Definitions

## See Definitions

href

Name	Type	Description
href	string	

\_links

Name	Type	Description
next	<a href="#">href</a>	
self	<a href="#">href</a>	

\_links

Name	Type	Description
self	<a href="#">href</a>	

\_links

Name	Type	Description
related	<a href="#">href</a>	

message\_criteria

Matching message definitions for the filter. A property must be specified.

Name	Type	Description
_links	<a href="#">_links</a>	
name_pattern	string	Message name filter on which to match. Supports wildcards. Defaults to * if not specified.
severities	string	A comma-separated list of severities or a wildcard.
snmp_trap_types	string	A comma separated list of snmp_trap_types or a wildcard.

records

Rule for an event filter

Name	Type	Description
_links	<a href="#">_links</a>	

Name	Type	Description
index	integer	Rule index. Rules are evaluated in ascending order. If a rule's index order is not specified during creation, the rule is appended to the end of the list.
message_criteria	<a href="#">message_criteria</a>	Matching message definitions for the filter. A property must be specified.
type	string	Rule type

#### error\_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

#### error

Name	Type	Description
arguments	array[ <a href="#">error_arguments</a> ]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

## Create an event filter rule

POST /support/ems/filters/{name}/rules

Creates an event filter rule.

### Required properties

- `message_criteria` - Criteria on which a rule is to match an event.

## Recommended optional properties

- `index` - One-based position index of the new rule.

## Related ONTAP commands

- `event filter rule add`

## Learn more

- [DOC /support/ems/filters/{name}/rules](#)

## Parameters

Name	Type	In	Required	Description
name	string	path	True	Filter name

## Request Body

Name	Type	Description
<code>_links</code>	<a href="#">_links</a>	
index	integer	Rule index. Rules are evaluated in ascending order. If a rule's index order is not specified during creation, the rule is appended to the end of the list.
message_criteria	<a href="#">message_criteria</a>	Matching message definitions for the filter. A property must be specified.
type	string	Rule type



## Example request

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "index": 1,
  "message_criteria": {
    "_links": {
      "related": {
        "href": "/api/resourcelink"
      }
    },
    "name_pattern": "callhome.*",
    "severities": "error,informational",
    "snmp_trap_types": "standard|built_in"
  },
  "type": "include"
}
```

## Response

Status: 201, Created

Name	Type	Description
_links	<a href="#">_links</a>	
num_records	integer	Number of records
records	array[ <a href="#">records</a> ]	

## Example response

```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "num_records": 3,
  "records": [
    {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "index": 1,
      "message_criteria": {
        "_links": {
          "related": {
            "href": "/api/resourcelink"
          }
        },
        "name_pattern": "callhome.*",
        "severities": "error,informational",
        "snmp_trap_types": "standard|built_in"
      },
      "type": "include"
    }
  ]
}
```

## Error

Status: Default

## ONTAP Error Response Codes

Error Code	Description
983092	The index of the rule provided is outside the allowed range for the filter provided
983095	The rule index provided is invalid for the filter provided
983113	Default filters cannot be modified or removed
983115	The maximum number of filter rules is reached
983126	A rule requires at least one name_pattern, severities, or snmp_trap_types to be defined
983127	A property cannot contain a combination of the wildcard characters and other values
983128	An invalid value is provided for the property 'snmp_trap_types'
983146	An invalid value is provided for the property 'severities'
983147	The severity levels provided are not supported

Name	Type	Description
error	error	

### Example error

```

{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}

```

### Definitions

## See Definitions

href

Name	Type	Description
href	string	

\_links

Name	Type	Description
self	<a href="#">href</a>	

\_links

Name	Type	Description
related	<a href="#">href</a>	

message\_criteria

Matching message definitions for the filter. A property must be specified.

Name	Type	Description
_links	<a href="#">_links</a>	
name_pattern	string	Message name filter on which to match. Supports wildcards. Defaults to * if not specified.
severities	string	A comma-separated list of severities or a wildcard.
snmp_trap_types	string	A comma separated list of snmp_trap_types or a wildcard.

ems\_filter\_rule

Rule for an event filter

Name	Type	Description
_links	<a href="#">_links</a>	
index	integer	Rule index. Rules are evaluated in ascending order. If a rule's index order is not specified during creation, the rule is appended to the end of the list.

Name	Type	Description
message_criteria	<a href="#">message_criteria</a>	Matching message definitions for the filter. A property must be specified.
type	string	Rule type

[\\_links](#)

Name	Type	Description
next	<a href="#">href</a>	
self	<a href="#">href</a>	

records

Rule for an event filter

Name	Type	Description
<a href="#">_links</a>	<a href="#">_links</a>	
index	integer	Rule index. Rules are evaluated in ascending order. If a rule's index order is not specified during creation, the rule is appended to the end of the list.
message_criteria	<a href="#">message_criteria</a>	Matching message definitions for the filter. A property must be specified.
type	string	Rule type

[error\\_arguments](#)

Name	Type	Description
code	string	Argument code
message	string	Message argument

error

Name	Type	Description
arguments	array[ <a href="#">error_arguments</a> ]	Message arguments

Name	Type	Description
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

## Manage event filter rules

### Support EMS filters name rules index endpoint overview

#### Overview

Manages a specific instance of a rule within a filter. See the documentation for </support/ems/filters> for details on the various fields in a rule.

#### Examples

##### Retrieving a single instance of a rule

```

# API
GET /api/support/ems/filters/no-info-debug-events/rules/1

# Response
200 OK

# JSON Body
{
  "name": "no-info-debug-events",
  "index": 1,
  "type": "include",
  "message_criteria": {
    "name_pattern": "*",
    "severities": "emergency,alert,error,notice",
    "snmp_trap_types": "*",
    "_links": {
      "self": {
        "href":
"/api/support/ems/messages?name=&severity=emergency,alert,error,notice&sn
mp_trap_type="
      }
    }
  },
  "_links": {
    "self": {
      "href": "/api/support/ems/filters/no-info-debug-events/rules/1"
    }
  }
}

```

### Updating an existing rule to use severity emergency

```

# API
PATCH /api/support/ems/filters/test-filter/rules/1

# JSON Body
{
  "message_criteria": {
    "severities": "emergency"
  }
}

# Response
200 OK

```

## Deleting a rule from an existing filter

```
# API
DELETE /api/support/ems/filters/test-filter/rules/1

# Response
200 OK
```

## Delete an event filter rule

```
DELETE /support/ems/filters/{name}/rules/{index}
```

Deletes an event filter rule.

### Related ONTAP commands

- `event filter rule delete`

### Learn more

- [DOC /support/ems/filters/{name}/rules/{index}](#)

### Parameters

Name	Type	In	Required	Description
name	string	path	True	
index	string	path	True	

### Response

```
Status: 200, Ok
```

### Error

```
Status: Default
```

### ONTAP Error Response Codes

Error Code	Description
983091	A default rule cannot be removed
983092	The index of the rule provided is outside the allowed range for the filter provided
983095	The rule index provided is invalid for the filter provided



Error Code	Description
983110	There are no user defined rules in the filter provided
983113	Default filters cannot be modified or removed

Name	Type	Description
error	error	

### Example error

```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

### Definitions

## See Definitions

### error\_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

### error

Name	Type	Description
arguments	array[ <a href="#">error_arguments</a> ]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

## Retrieve an event filter rule

GET /support/ems/filters/{name}/rules/{index}

Retrieves an event filter rule.

### Related ONTAP commands

- `event filter show`

### Learn more

- [DOC /support/ems/filters/{name}/rules/{index}](#)

### Parameters

Name	Type	In	Required	Description
name	string	path	True	Filter name
index	string	path	True	Filter index
fields	array[string]	query	False	Specify the fields to return.

## Response

Status: 200, Ok

Name	Type	Description
<a href="#">_links</a>	<a href="#">_links</a>	
index	integer	Rule index. Rules are evaluated in ascending order. If a rule's index order is not specified during creation, the rule is appended to the end of the list.
message_criteria	<a href="#">message_criteria</a>	Matching message definitions for the filter. A property must be specified.
type	string	Rule type

## Example response

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "index": 1,
  "message_criteria": {
    "_links": {
      "related": {
        "href": "/api/resourcelink"
      }
    },
    "name_pattern": "callhome.*",
    "severities": "error,informational",
    "snmp_trap_types": "standard|built_in"
  },
  "type": "include"
}
```

## Error

Status: Default, Error

Name	Type	Description
error	error	

### Example error

```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

### Definitions

## See Definitions

href

Name	Type	Description
href	string	

\_links

Name	Type	Description
self	<a href="#">href</a>	

\_links

Name	Type	Description
related	<a href="#">href</a>	

message\_criteria

Matching message definitions for the filter. A property must be specified.

Name	Type	Description
_links	<a href="#">_links</a>	
name_pattern	string	Message name filter on which to match. Supports wildcards. Defaults to * if not specified.
severities	string	A comma-separated list of severities or a wildcard.
snmp_trap_types	string	A comma separated list of snmp_trap_types or a wildcard.

error\_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

error

Name	Type	Description
arguments	array[ <a href="#">error_arguments</a> ]	Message arguments

Name	Type	Description
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

## Update an event filter rule

PATCH /support/ems/filters/{name}/rules/{index}

Updates an event filter rule.

### Recommended optional properties

- `message_criteria` - New criteria on which a rule is to match an event.

### Related ONTAP commands

- `event filter rule add`
- `event filter rule delete`

### Learn more

- [DOC /support/ems/filters/{name}/rules/{index}](#)

### Parameters

Name	Type	In	Required	Description
name	string	path	True	Filter name
index	string	path	True	Filter index
new_index	integer	query	False	New position for the filter rule index

### Request Body

Name	Type	Description
<code>_links</code>	<a href="#">_links</a>	

Name	Type	Description
index	integer	Rule index. Rules are evaluated in ascending order. If a rule's index order is not specified during creation, the rule is appended to the end of the list.
message_criteria	<a href="#">message_criteria</a>	Matching message definitions for the filter. A property must be specified.
type	string	Rule type

### Example request

```

{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "index": 1,
  "message_criteria": {
    "_links": {
      "related": {
        "href": "/api/resourcelink"
      }
    },
    "name_pattern": "callhome.*",
    "severities": "error,informational",
    "snmp_trap_types": "standard|built_in"
  },
  "type": "include"
}

```

### Response

```
Status: 200, Ok
```

### Error

```
Status: Default
```

## ONTAP Error Response Codes

Error Code	Description
983092	The index of the rule provided is outside the allowed range for the filter provided
983095	The rule index provided is invalid for the filter provided
983113	Default filters cannot be modified or removed
983126	A rule requires at least one name_pattern, severities, or snmp_trap_types to be defined
983127	A property cannot contain a combination of the wildcard characters and other values.
983128	An invalid value is provided for the property 'snmp_trap_types'
983146	An invalid value is provided for the property 'severities'
983147	The severity levels provided are not supported

Name	Type	Description
error	error	

### Example error

```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

### Definitions



## See Definitions

href

Name	Type	Description
href	string	

\_links

Name	Type	Description
self	<a href="#">href</a>	

\_links

Name	Type	Description
related	<a href="#">href</a>	

message\_criteria

Matching message definitions for the filter. A property must be specified.

Name	Type	Description
_links	<a href="#">_links</a>	
name_pattern	string	Message name filter on which to match. Supports wildcards. Defaults to * if not specified.
severities	string	A comma-separated list of severities or a wildcard.
snmp_trap_types	string	A comma separated list of snmp_trap_types or a wildcard.

ems\_filter\_rule

Rule for an event filter

Name	Type	Description
_links	<a href="#">_links</a>	
index	integer	Rule index. Rules are evaluated in ascending order. If a rule's index order is not specified during creation, the rule is appended to the end of the list.

Name	Type	Description
message_criteria	<a href="#">message_criteria</a>	Matching message definitions for the filter. A property must be specified.
type	string	Rule type

#### error\_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

#### error

Name	Type	Description
arguments	array[ <a href="#">error_arguments</a> ]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

## Manage the EMS event catalog

### Support EMS messages endpoint overview

#### Overview

Allows access to the EMS event catalog. The catalog contains a list of all events supported by the system and their corresponding descriptions, the reason for an event occurrence, and how to correct issues related to the event.

#### Example

Querying for the first event that has a message name beginning with 'C'

```

# API
GET /api/support/ems/messages?fields=name&max_records=1&name=C*

# Response
200 OK

# JSON Body
{
  "records": [
    {
      "name": "CR.Data.File.Inaccessible",
      "_links": {
        "self": {
          "href": "/api/support/ems/messages/CR.Data.File.Inaccessible"
        }
      }
    }
  ],
  "num_records": 1,
  "_links": {
    "self": {
      "href": "/api/support/ems/messages?fields=name&max_records=1&name=C*"
    }
  }
}

```

## Retrieve event catalog definitions

GET /support/ems/messages

Retrieves the event catalog definitions.

### Related ONTAP commands

- [event catalog show](#)

### Learn more

- [DOC /support/ems/messages](#)

### Parameters

Name	Type	In	Required	Description
description	string	query	False	Filter by description

Name	Type	In	Required	Description
snmp_trap_type	string	query	False	Filter by snmp_trap_type
deprecated	boolean	query	False	Filter by deprecated
corrective_action	string	query	False	Filter by corrective_action
severity	string	query	False	Filter by severity
name	string	query	False	Filter by name
fields	array[string]	query	False	Specify the fields to return.
max_records	integer	query	False	Limit the number of records returned.
return_records	boolean	query	False	The default is true for GET calls. When set to false, only the number of records is returned.
return_timeout	integer	query	False	The number of seconds to allow the call to execute before returning. When iterating over a collection, the default is 15 seconds. ONTAP returns earlier if either max records or the end of the collection is reached.
order_by	array[string]	query	False	Order results by specified fields and optional [asc

## Response

Status: 200, Ok

Name	Type	Description
_links	<a href="#">_links</a>	
num_records	integer	Number of records
records	array[ <a href="#">records</a> ]	

### Example response

```

{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "num_records": 3,
  "records": [
    {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "corrective_action": "string",
      "deprecated": 1,
      "description": "string",
      "name": "callhome.spares.low",
      "severity": "error",
      "snmp_trap_type": "standard"
    }
  ]
}

```

### Error

Status: Default, Error

Name	Type	Description
error	<a href="#">error</a>	

## Example error

```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

## Definitions

## See Definitions

href

Name	Type	Description
href	string	

\_links

Name	Type	Description
next	<a href="#">href</a>	
self	<a href="#">href</a>	

\_links

Name	Type	Description
self	<a href="#">href</a>	

records

Name	Type	Description
_links	<a href="#">_links</a>	
corrective_action	string	Corrective action
deprecated	boolean	Is deprecated?
description	string	Description
name	string	Name of the event.
severity	string	Severity
snmp_trap_type	string	SNMP trap type

error\_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

error

<b>Name</b>	<b>Type</b>	<b>Description</b>
arguments	array[ <a href="#">error_arguments</a> ]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.



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