



# Create or retrieve filter rules

## ONTAP 9.13.1 REST API reference

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# 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 properties in a rule.

### Examples

Retrieving the collection of rules connected to a filter

```
# The API:
GET /api/support/ems/filters/{name}/rules

# The call:
curl -X GET "https://<mgmt-ip>/api/support/ems/filters/no-info-debug-
events/rules" -H "accept: application/hal+json"

# The 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.

```

# The API:
POST /api/support/ems/filters/{name}/rules

# The call:
curl -X POST "https://<mgmt-ip>/api/support/ems/filters/test-filter/rules"
-H "accept: application/hal+json" -H "Content-Type: application/json" -d
"@test_ems_filter_rules_post.txt"
test_ems_filter_rules_post.txt(body):

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

# The response:
201 Created

```

## Retrieve event filter rules

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

**Introduced In:** 9.6

Retrieves event filter rules.

### Related ONTAP commands

- `event filter show`

### Parameters

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

Name	Type	In	Required	Description
message_criteria.snmp_trap_types	string	query	False	Filter by message_criteria.snmp_trap_types
message_criteria.severities	string	query	False	Filter by message_criteria.severities
index	integer	query	False	Filter by index
parameter_criteria.name_pattern	string	query	False	Filter by parameter_criteria.name_pattern  • Introduced in: 9.13
parameter_criteria.value_pattern	string	query	False	Filter by parameter_criteria.value_pattern  • Introduced in: 9.13
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.  • Default value: 1

Name	Type	In	Required	Description
return_timeout	integer	query	False	<p>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.</p> <ul style="list-style-type: none"> <li>• Default value: 1</li> <li>• Max value: 120</li> <li>• Min value: 0</li> </ul>
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": 1,
  "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"
      },
      "parameter_criteria": [
        {
          "name_pattern": "vol",
          "value_pattern": "cloud*"
        }
      ],
      "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.

parameter\_criteria

Criterion used for parameter based filtering

Name	Type	Description
name_pattern	string	Parameter name pattern. Wildcard character '*' is supported.
value_pattern	string	Parameter value pattern. Wildcard character '*' is supported.

records

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.
message_criteria	<a href="#">message_criteria</a>	Matching message definitions for the filter. A property must be specified.
parameter_criteria	array[ <a href="#">parameter_criteria</a> ]	Parameter criteria used to match against events' parameters. Each parameter consists of a name and a value. When multiple parameter criteria are provided in a rule, all must match for the rule to be considered matched. A pattern can include one or more wildcard '*' characters.
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

**Introduced In:** 9.6

Creates an event filter rule.

### Required properties

- `type` - Enumeration indicating whether the rule is for include or exclude.
- `message_criteria` - Message criteria used by a rule to match an event.
- `parameter_criteria` - Parameter criteria used by a rule to match an event. Note: At least one pattern needs to be provided for `message_criteria` and / or `parameter_criteria`.

### Recommended optional properties

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

### Related ONTAP commands

- `event filter rule add`

### Parameters

Name	Type	In	Required	Description
name	string	path	True	Filter name
return_records	boolean	query	False	The default is false. If set to true, the records are returned. <ul style="list-style-type: none"> <li>• Default value:</li> </ul>

## Request Body

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.
parameter_criteria	array[ <a href="#">parameter_criteria</a> ]	Parameter criteria used to match against events' parameters. Each parameter consists of a name and a value. When multiple parameter criteria are provided in a rule, all must match for the rule to be considered matched. A pattern can include one or more wildcard '*' characters.
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"
  },
  "parameter_criteria": [
    {
      "name_pattern": "vol",
      "value_pattern": "cloud*"
    }
  ],
  "type": "include"
}
```

## Response

Status: 201, Created

Name	Type	Description
<a href="#">_links</a>	<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": 1,
  "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"
      },
      "parameter_criteria": [
        {
          "name_pattern": "vol",
          "value_pattern": "cloud*"
        }
      ],
      "type": "include"
    }
  ]
}
```

## Headers

Name	Description	Type
Location	Useful for tracking the resource location	string

## 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, snmp_trap_types, or parameter pattern 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 severities provided are not supported
983155	The provided severities property does not match that of the name_pattern
983156	The provided snmp_trap_types property does not match that of the name_pattern
983157	The provided severities and snmp_trap_types properties do not match those of the name_pattern
983158	The name_pattern provided does not exist
983195	Empty field in parameter_criteria. Both name and value patterns must be specified
983196	name_pattern and value_pattern fields in parameter_criteria are empty
983211	Parameter criteria based filtering is not supported in this version of ONTAP

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.

parameter\_criteria

Criterion used for parameter based filtering

Name	Type	Description
name_pattern	string	Parameter name pattern. Wildcard character '*' is supported.
value_pattern	string	Parameter value pattern. Wildcard character '*' is supported.

## ems\_filter\_rule

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.
parameter_criteria	array[ <a href="#">parameter_criteria</a> ]	Parameter criteria used to match against events' parameters. Each parameter consists of a name and a value. When multiple parameter criteria are provided in a rule, all must match for the rule to be considered matched. A pattern can include one or more wildcard '*' characters.
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.

Name	Type	Description
message_criteria	<a href="#">message_criteria</a>	Matching message definitions for the filter. A property must be specified.
parameter_criteria	array[ <a href="#">parameter_criteria</a> ]	Parameter criteria used to match against events' parameters. Each parameter consists of a name and a value. When multiple parameter criteria are provided in a rule, all must match for the rule to be considered matched. A pattern can include one or more wildcard '*' characters.
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.

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