Manage an event destination instance

REST API reference

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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 you can modify after a destination is created. For example, you cannot change a destination's type, but you can modify the underlying details of the type.

> The system defines default destinations that cannot be removed or modified. These destinations are specified by setting the "system_defined" field to "true".

See the documentation for /support/ems/destinations for details on the various properties in a destination.

Connectivity Test

Optionally, you can request the connectivity object by specifically requesting the object in the fields query. This will perform an additional test to determine the state of the destination. The state response can include one of the following values:

- success
- fail
- not_supported

success

If the connectivity object indicates a state of 'success', then the destination check passed.

> Currently, only the 'rest_api' destination type is supported. A successful result indicates that the server received the event.

fail

If the connectivity object indicates a state of 'fail', then the destination check has not passed. The object will contain a 'error' object with additional information regarding the failure.

not_supported

If the connectivity object indicates a state of 'not_supported', then the destination check is not available for the indicated destination type. This is not considered a failure condition.

> Currently, only the 'rest_api' destination type is supported for connectivity testing.

Examples

Retrieving a specific destination instance

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

# The call:
curl -X GET "https://<mgmt-ip>/api/support/ems/destinations/snmp-traphost"
-H "accept: application/hal+json"

# The 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"
  }
}
}
```

Check whether a destination passes connectivity tests

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

# The call:
curl -X GET "https://<mgmt-ip>/api/support/ems/destinations/rest-api-
destination?fields=name,connectivity.*" -H "accept: application/hal+json"

# The response:
200 OK

# JSON Body
{
"name": "rest-api-destination",
"connectivity": {
  "state": "fail",
  "errors": [
    {
      "message": {
        "message": "Cannot reach host mail@mail.com.",
        "code": "4",
        "arguments": [
          {
            "code": "5",
            "message": "mail@mail.com"
          }
        ],
      },
      "node": {
        "name": "node1",
        "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
      }
    }
  ]
},
"_links": {
  "self": {
    "href": "/api/support/ems/destinations/rest-api-
destination?fields=name,connectivity.*"
  }
}
}
```

Updating an existing destination (change of email address)

```
# The API:
PATCH /api/support/ems/destinations/{name}

# The call:
curl -X POST "https://<mgmt-ip>/api/support/ems/destinations/test-
destination" -H "accept: application/hal+json" -H "Content-Type:
application/json" -d "@test_ems_destinations_patch.txt"
test_ems_destinations_patch.txt(body):
{
"destination": "support@mycompany.com"
}

# The response:
200 OK
```

Deleting an existing destination

```
# The API:
DELETE /api/support/ems/destinations/{name}

# The call:
curl -X DELETE "https://<mgmt-ip>/api/support/ems/destinations/test-
destination" -H "accept: application/hal+json"

# The response:
200 OK
```

Delete an event destination

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

Introduced In: 9.6

Deletes an event destination.

Related ONTAP commands

- `event notification destination delete`
- `event notification delete`

Parameters

Name	Type	In	Required	Description
name	string	path	True	Destination name

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[error_arguments]	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}`

Introduced In: 9.6

Retrieves event destinations.

Expensive properties

There is an added computational 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.

- `connectivity.*`

Related ONTAP commands

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

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	_links	
access_control_role	access_control_role	Indicates the access control role that created the event destination and is used to control access to the destination based on role-based access control (RBAC) rules. If created by the 'admin' user, the field is unset.
certificate	certificate	Specifies the client-side certificate used by the ONTAP system when mutual authentication is required. This object is only applicable for **rest_api** type destinations. Both the `ca` and `serial_number` fields must be specified when configuring a certificate in a PATCH or POST request. The `name` field is read-only and cannot be used to configure a client-side certificate. • Introduced in: 9.6
connectivity	connectivity	
destination	string	Event destination
filters	array[filters]	
name	string	Destination name. Valid in POST.
syslog	syslog	
system_defined	boolean	Flag indicating system-defined destinations.

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

Example response


```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "access_control_role": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "admin"
  },
  "certificate": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "ca": "VeriSign",
    "name": "cert1",
    "serial_number": 1234567890
  },
  "connectivity": {
    "errors": [
      {
        "message": {
          "arguments": [
            {
              "code": "string",
              "message": "string"
            }
          ],
          "code": "4",
          "message": "entry doesn't exist"
        },
        "node": {
          "_links": {
            "self": {
              "href": "/api/resourcelink"
            }
          },
          "name": "node1",
```

```
          "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
        }
      }
    ],
    "state": "fail"
  },
  "destination": "<a href="
mailto:administrator@mycompany.com">administrator@mycompany.com</a>",
  "filters": [
    {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "important-events"
    }
  ],
  "name": "Admin_Email",
  "syslog": {
    "format": {
      "hostname_override": "string",
      "message": "string",
      "timestamp_override": "string"
    },
    "port": 514,
    "transport": "string"
  },
  "system_defined": 1,
  "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	href	

access_control_role

Indicates the access control role that created the event destination and is used to control access to the destination based on role-based access control (RBAC) rules. If created by the 'admin' user, the field is unset.

Name	Type	Description
_links	_links	
name	string	Role name

certificate

Specifies the client-side certificate used by the ONTAP system when mutual authentication is required. This object is only applicable for **rest_api** type destinations. Both the `ca` and `serial_number` fields must be specified when configuring a certificate in a PATCH or POST request. The `name` field is read-only and cannot be used to configure a client-side certificate.

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

arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

message

Name	Type	Description
arguments	array[arguments]	Message arguments
code	string	Unique message code.
message	string	User message.

node

Name	Type	Description
_links	_links	
name	string	
uuid	string	

errors

Error object included in the event of connectivity failure.

Name	Type	Description
message	message	
node	node	

connectivity

Name	Type	Description
errors	array[errors]	A list of errors encountered during connectivity checks.
state	string	Current connectivity state.

filters

Name	Type	Description
_links	_links	
name	string	

format

Name	Type	Description
hostname_override	string	Syslog Hostname Format Override. The supported hostname formats are no_override (hostname format based on the syslog.format.message property i.e. fqdn if syslog.format.message is rfc_5424, hostname_only if syslog.format.message is legacy_netapp), fqdn (Fully Qualified Domain Name) and hostname_only.
message	string	Syslog Message Format. The supported message formats are legacy_netapp (format: <PRIVAL>TIMESTAMP [HOSTNAME:Event-name:Event-severity]: MSG) and rfc_5424 (format: <PRIVAL>VERSION TIMESTAMP HOSTNAME Event-source - Event-name - MSG).
timestamp_override	string	Syslog Timestamp Format Override. The supported timestamp formats are no_override (timestamp format based on the syslog.format.message property i.e. rfc_3164 if syslog.format.message is legacy_netapp, iso_8601_local_time if syslog.format.message is rfc_5424), rfc_3164 (format: Mmm dd hh:mm:ss), iso_8601_local_time (format: YYYY-MM-DDThh:mm:ss+/-hh:mm) and iso_8601_utc (format: YYYY-MM-DDThh:mm:ssZ).

syslog

Name	Type	Description
format	format	
port	integer	Syslog Port.

Name	Type	Description
transport	string	Syslog Transport Protocol.

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

Update an event destination

PATCH `/support/ems/destinations/{name}`

Introduced In: 9.6

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`

Parameters

Name	Type	In	Required	Description
name	string	path	True	Destination name

Request Body

Name	Type	Description
certificate	certificate	Specifies the client-side certificate used by the ONTAP system when mutual authentication is required. This object is only applicable for **rest_api** type destinations. Both the `ca` and `serial_number` fields must be specified when configuring a certificate in a PATCH or POST request. The `name` field is read-only and cannot be used to configure a client-side certificate. • Introduced in: 9.6
connectivity	connectivity	
destination	string	Event destination
filters	array[filters]	
syslog	syslog	
system_defined	boolean	Flag indicating system-defined destinations.

Example request

```
{
  "certificate": {
    "ca": "VeriSign",
    "name": "cert1",
    "serial_number": 1234567890
  },
  "connectivity": {
    "errors": [
      {
        "message": {
          "arguments": [
            {
              "code": "string",
              "message": "string"
            }
          ],
          "code": "4",
          "message": "entry doesn't exist"
        },
        "node": {
          "name": "node1",
          "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
        }
      }
    ],
    "state": "fail"
  },
  "destination": "<a href="
mailto:administrator@mycompany.com">administrator@mycompany.com</a>",
  "filters": [
    {
      "name": "important-events"
    }
  ],
  "syslog": {
    "format": {
      "hostname_override": "string",
      "message": "string",
      "timestamp_override": "string"
    },
    "port": 514,
    "transport": "string"
  },
  "system_defined": 1
}
```

Response

```
Status: 200, Ok
```

Name	Type	Description
certificate	certificate	Specifies the client-side certificate used by the ONTAP system when mutual authentication is required. This object is only applicable for **rest_api** type destinations. Both the `ca` and `serial_number` fields must be specified when configuring a certificate in a PATCH or POST request. The `name` field is read-only and cannot be used to configure a client-side certificate. • Introduced in: 9.6
connectivity	connectivity	
destination	string	Event destination
filters	array[filters]	
syslog	syslog	
system_defined	boolean	Flag indicating system-defined destinations.

Example response

```
{
  "certificate": {
    "ca": "VeriSign",
    "name": "cert1",
    "serial_number": 1234567890
  },
  "connectivity": {
    "errors": [
      {
        "message": {
          "arguments": [
            {
              "code": "string",
              "message": "string"
            }
          ],
          "code": "4",
          "message": "entry doesn't exist"
        },
        "node": {
          "name": "node1",
          "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
        }
      }
    ],
    "state": "fail"
  },
  "destination": "<a href="
mailto:administrator@mycompany.com">administrator@mycompany.com</a>",
  "filters": [
    {
      "name": "important-events"
    }
  ],
  "syslog": {
    "format": {
      "hostname_override": "string",
      "message": "string",
      "timestamp_override": "string"
    },
    "port": 514,
    "transport": "string"
  },
  "system_defined": 1
}
```

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
983107	A provided filter does not exist
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
983152	Default destinations cannot be modified or removed
983184	A provided property cannot be configured on the requested destination type
983200	Access control role compatibility issue with provided filters

Definitions

See Definitions

href

Name	Type	Description
href	string	

_links

access_control_role

Indicates the access control role that created the event destination and is used to control access to the destination based on role-based access control (RBAC) rules. If created by the 'admin' user, the field is unset.

Name	Type	Description
_links	_links	
name	string	Role name

certificate

Specifies the client-side certificate used by the ONTAP system when mutual authentication is required. This object is only applicable for **rest_api** type destinations. Both the `ca` and `serial_number` fields must be specified when configuring a certificate in a PATCH or POST request. The `name` field is read-only and cannot be used to configure a client-side certificate.

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

arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

message

Name	Type	Description
arguments	array[arguments]	Message arguments
code	string	Unique message code.
message	string	User message.

node

Name	Type	Description
name	string	
uuid	string	

errors

Error object included in the event of connectivity failure.

Name	Type	Description
message	message	
node	node	

connectivity

Name	Type	Description
errors	array[errors]	A list of errors encountered during connectivity checks.
state	string	Current connectivity state.

filters

Name	Type	Description
name	string	

format

Name	Type	Description
hostname_override	string	Syslog Hostname Format Override. The supported hostname formats are no_override (hostname format based on the syslog.format.message property i.e. fqdn if syslog.format.message is rfc_5424, hostname_only if syslog.format.message is legacy_netapp), fqdn (Fully Qualified Domain Name) and hostname_only.
message	string	Syslog Message Format. The supported message formats are legacy_netapp (format: <PRIVAL>TIMESTAMP [HOSTNAME:Event-name:Event-severity]: MSG) and rfc_5424 (format: <PRIVAL>VERSION TIMESTAMP HOSTNAME Event-source - Event-name - MSG).
timestamp_override	string	Syslog Timestamp Format Override. The supported timestamp formats are no_override (timestamp format based on the syslog.format.message property i.e. rfc_3164 if syslog.format.message is legacy_netapp, iso_8601_local_time if syslog.format.message is rfc_5424), rfc_3164 (format: Mmm dd hh:mm:ss), iso_8601_local_time (format: YYYY-MM-DDThh:mm:ss+/-hh:mm) and iso_8601_utc (format: YYYY-MM-DDThh:mm:ssZ).

syslog

Name	Type	Description
format	format	
port	integer	Syslog Port.

Name	Type	Description
transport	string	Syslog Transport Protocol.

ems_destination

Name	Type	Description
certificate	certificate	Specifies the client-side certificate used by the ONTAP system when mutual authentication is required. This object is only applicable for **rest_api** type destinations. Both the `ca` and `serial_number` fields must be specified when configuring a certificate in a PATCH or POST request. The `name` field is read-only and cannot be used to configure a client-side certificate. • Introduced in: 9.6
connectivity	connectivity	
destination	string	Event destination
filters	array[filters]	
syslog	syslog	
system_defined	boolean	Flag indicating system-defined destinations.

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code

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

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