Initiator API methods

Element Software

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Initiator API methods

Initiator methods enable you to add, remove, view, and modify iSCSI initiator objects, which handle communication between the storage system and external storage clients.

- CreateInitiators
- DeleteInitiators
- ListInitiators
- ModifyInitiators

Find more information

- SolidFire and Element Software Documentation
- Documentation for earlier versions of NetApp SolidFire and Element products

CreateInitiators

You can use `CreateInitiators` to create multiple new initiator IQNs or World Wide Port Names (WWPNs) and optionally assign them aliases and attributes. When you use `CreateInitiators` to create new initiators, you can also add them to volume access groups.

If the operation fails to create one of the initiators provided in the parameter, the method returns an error and does not create any initiators (no partial completion is possible).

Parameter

This method has the following input parameter:

Name	Description	Type	Default value	Required
initiators	A list of objects containing characteristics of each new initiator. Objects: • `alias`: (Optional) The friendly name to assign to this initiator. (string) • `attributes`: (Optional) A set of JSON attributes to assign to this initiator. (JSON object) • `chapUsername`: (Optional) The unique CHAP username for this initiator. Defaults to the initiator name (IQN) if not specified during creation and requireChap is true. (string) • `initiatorSecret`: (Optional) The CHAP secret used to authenticate the initiator. Defaults to a randomly generated secret if not specified during creation and requireChap is true. (string) • `name`: (Required) The name of the initiator (IQN or WWPN) to create. (string) • `requireChap`: (Optional) True if CHAP is required during session login for	JSON object array	None	Yes

Return value

This method has the following return value:

Name	Description	Type
initiators	List of objects describing the newly created initiators.	initiator array

Error

This method can return the following error:

Name	Description
xInitiatorExists	Returned if the initiator name you chose already exists.

Request example

Requests for this method are similar to the following example:

```
{
  "id": 3291,
  "method": "CreateInitiators",
  "params": {
    "initiators": [
      {
        "name": "iqn.1993-08.org.debian:01:288170452",
        "alias": "example1"
      },
      {
        "name": "iqn.1993-08.org.debian:01:297817012",
        "alias": "example2"
      }
    ]
  }
}
```

Response example

This method returns a response similar to the following example:

```
{
  "id": 3291,
  "result": {
    "initiators": [
      {
        "alias": "example1",
        "attributes": {},
        "initiatorID": 145,
        "initiatorName": "iqn.1993-08.org.debian:01:288170452",
        "volumeAccessGroups": []
      },
      {
        "alias": "example2",
        "attributes": {},
        "initiatorID": 146,
        "initiatorName": "iqn.1993-08.org.debian:01:297817012",
        "volumeAccessGroups": []
      }
    ]
  }
}
```


New since version

9.6

Find more information

ListInitiators

DeleteInitiators

You can use `DeleteInitiators` to delete one or more initiators from the system (and from any associated volumes or volume access groups).

If `DeleteInitiators` fails to delete one of the initiators provided in the parameter, the system returns an error and does not delete any initiators (no partial completion is possible).

Parameter

This method has the following input parameter:

Name	Description	Type	Default value	Required
initiators	An array of IDs of initiators to delete.	integer array	None	Yes

Return values

This method has no return values.

Error

This method can return the following error:

Name	Description
xInitiatorDoesNotExist	Returned if the initiator name you choose does not exist.

Request example

Requests for this method are similar to the following example:

```
{
  "id": 5101,
  "method": "DeleteInitiators",
  "params": {
    "initiators": [
      145,
      147
    ]
  }
}
```

Response example

This method returns a response similar to the following example:

```
{
  "id": 5101,
  "result": {}
}
```

New since version

9.6

ListInitiators

You can use the `ListInitiators` method to get the list of initiator IQNs or World Wide Port Names (WWPNs).

Parameters

This method has the following input parameters:

Name	Description	Type	Default value	Required
initiators	A list of initiator IDs to retrieve. You can supply this parameter or the startInitiatorID parameter, but not both.	integer array	None	No
startInitiatorID	The initiator ID at which to begin the listing. You can supply this parameter or the initiators parameter, but not both.	integer	0	No
limit	The maximum number of initiator objects to return.	integer	(unlimited)	No

Return value

This method has the following return value:

Name	Description	Type
initiators	List of the initiator information.	initiator array

Exceptions

This method can have the following exception:

Name	Description
xInvalidParameter	Thrown if you include both the startInitiatorID and the initiators parameters in the same method call.

Request example

Requests for this method are similar to the following example:

```
{
   "method": "ListInitiators",
   "params": {},
   "id" : 1
}
```

Response example

This method returns a response similar to the following example:

```
{
  "id": 1,
  "result": {
    "initiators": [
      {
        "alias": "",
        "attributes": {},
        "initiatorID": 2,
        "initiatorName": "iqn.1993-08.org.debian:01:c84ffd71216",
        "volumeAccessGroups": [
          1
        ]
      }
    ]
  }
}
```

New since version

9.6

ModifyInitiators

You can use the `ModifyInitiators` method to change the attributes of one or more existing initiators.

You cannot change the name of an existing initiator. If you need to change the name of an initiator, delete it first with the DeleteInitiators method and create a new one with the CreateInitiators method.

If ModifyInitiators fails to change one of the initiators provided in the parameter, the method returns an error and does not modify any initiators (no partial completion is possible).

Parameter

This method has the following input parameter:

Name	Description	Type	Default value	Required

initiators	A list of objects containing characteristics of each initiator to modify. Possible objects: • `alias`: (Optional) A new friendly name to assign to the initiator. (string) • `attributes`: (Optional) A new set of JSON attributes to assign to the initiator. (JSON object) • `chapUsername`: (Optional) A new unique CHAP username for this initiator. (string) • `forceDuringUpgrade`: Complete the initiator modification during an upgrade. • `initiatorID`: (Required) The ID of the initiator to modify. (integer) • `initiatorSecret`: (Optional) A new CHAP secret used to authenticate the initiator. (string) • `requireChap`: (Optional) True if CHAP is required for this initiator. (boolean) • `targetSecret`: (Optional) A new CHAP secret used to authenticate the	JSON object array	None	Yes

Return value

This method has the following return value:

Name	Description	Type
initiators	List of objects describing the newly modified initiators.	initiator array

Request example

Requests for this method are similar to the following example:

```
{
  "id": 6683,
  "method": "ModifyInitiators",
  "params": {
    "initiators": [
      {
        "initiatorID": 2,
        "alias": "alias1",
        "volumeAccessGroupID": null
      },
      {
        "initiatorID": 3,
        "alias": "alias2",
        "volumeAccessGroupID": 1
      }
    ]
  }
}
```

Response example

This method returns a response similar to the following example:

```
{
  "id": 6683,
  "result": {
    "initiators": [
      {
        "alias": "alias1",
        "attributes": {},
        "initiatorID": 2,
        "initiatorName": "iqn.1993-08.org.debian:01:395543635",
        "volumeAccessGroups": []
      },
      {
        "alias": "alias2",
        "attributes": {},
        "initiatorID": 3,
        "initiatorName": "iqn.1993-08.org.debian:01:935573135",
        "volumeAccessGroups": [
          1
        ]
      }
    ]
  }
}
```


New since version

9.6

Find more information

- CreateInitiators
- DeleteInitiators

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