

VPLEX REST API

Release 6.2
Version 2

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Chapter 1. Overview

A definition for the next-gen VPLEX API

1.1. Version information

Version : 2

1.2. Tags

- aggregate
- amp
- bulk
- certificates
- cluster_witness
- clusters
- consistency_group
- data_migration
- devices
- director
- distributed_storage
- engine
- exports
- extent
- hardware_ports
- health
- jobs
- licenses
- logger
- logging_volume
- logical_units
- maps
- meta_volume
- monitors
- permissions
- recoverpoint

- storage_array
- storage_group
- storage_pool
- storage_volume
- system_config
- token
- version
- virtual_volume

Chapter 2. Security

2.1. basicAuth

Type : basic

2.2. jwtAuth

Type : apiKey

Name : Authorization

In : HEADER

Chapter 3. Resources

3.1. Aggregate

3.1.1. Groups the resources at the given URI by the values of the provided fields and returns aggregated computations for each group

```
GET /aggregates
```

Parameters

Type	Name	Description	Schema
Query	group_by <i>required</i>	Comma-separated list of fields to aggregate on	string
Query	uri <i>required</i>	URI of collection to aggregate	string

Responses

HTTP Code	Description	Schema
200	A JSON array of aggregates	Aggregates

3.2. Amp

3.2.1. Register a new `ArrayManagementProvider`

```
POST /clusters/{cluster_name}/array_management_providers
```

Parameters

Type	Name	Description	Schema
Path	cluster_name <i>required</i>	The name of the cluster	string
Body	amp_payload <i>required</i>		amp_payload

Responses

HTTP Code	Description	Schema
201	Successfully registered the ArrayManagementProvider Headers : Location (string) : URI of registered AMP.	ArrayManagementProvider
400	Bad request, for incorrect IP address	Error
401	Unauthorized error, in case of invalid username or password	Error

Example HTTP response

Response 201

```
{
  "provider_type" : "SMI-S",
  "connectivity" : "connected",
  "port" : "port",
  "user_name" : "user_name",
  "use_ssl" : true,
  "name" : "name",
  "ip_address" : "ip_address",
  "managed_arrays" : [ "managed_arrays", "managed_arrays" ]
}
```

3.2.2. Returns a list of registered AMPs

```
GET /clusters/{cluster_name}/array_management_providers
```

Parameters

Type	Name	Description	Schema
Path	cluster_name <i>required</i>	The name of the cluster	string
Query	connectivity_status <i>optional</i>	Filter results by connectivity_status. See LexicalQueryExpression for details.	string (LexicalQueryExpression)
Query	fields <i>optional</i>	Select which fields are included in the response. 'name' is always included. See FieldSelectionExpression for details.	string (FieldSelectionExpression)
Query	limit <i>optional</i>	<p>Maximum number of elements to include in paginated results. 'offset' must also be specified.</p>	integer (int32)
Query	offset <i>optional</i>	Index of the first element to include in paginated results. 'limit' must also be specified.</p>	integer (int32)

Type	Name	Description	Schema
Query	sort_by <i>optional</i>	Specify the field priority order and direction for sorting. See <code>SortingOrderExpression</code> for details.	string (<code>SortingOrderExpression</code>)

Responses

HTTP Code	Description	Schema
200	A JSON array of registered AMPs Headers : X-Total-Count (integer) : The total number of entities in the result set after filtering.	< ArrayManagementProvider > array
500	Internal server error	Error

3.2.3. Returns the details of an AMP

```
GET /clusters/{cluster_name}/array_management_providers/{name}
```

Parameters

Type	Name	Description	Schema
Path	cluster_name <i>required</i>	The name of the cluster	string
Path	name <i>required</i>	The name of a specific instance of the resource	string
Query	fields <i>optional</i>	Select which fields are included in the response. 'name' is always included. See <code>FieldSelectionExpression</code> for details.	string (<code>FieldSelectionExpression</code>)

Responses

HTTP Code	Description	Schema
200	A single AMP	ArrayManagementProvider

Example HTTP response

Response 200

```
{
  "provider_type" : "SMI-S",
  "connectivity" : "connected",
  "port" : "port",
  "user_name" : "user_name",
  "use_ssl" : true,
  "name" : "name",
  "ip_address" : "ip_address",
  "managed_arrays" : [ "managed_arrays", "managed_arrays" ]
}
```

3.2.4. Unregisters an AMP

```
DELETE /clusters/{cluster_name}/array_management_providers/{name}
```

Parameters

Type	Name	Description	Schema
Path	cluster_name <i>required</i>	The name of the cluster	string
Path	name <i>required</i>	The name of a specific instance of the resource	string

Responses

HTTP Code	Description	Schema
204	Successfully unregistered the ArrayManagementProvider	No Content

3.3. Bulk

3.3.1. Make a bulk request

```
POST /bulk/
```

Parameters

Type	Name	Schema
Body	request <i>required</i>	< string, object > map

Responses

HTTP Code	Description	Schema
200	A summary of the results of the request. This response indicates that the request was successfully processed, not necessarily that every task succeeded. The caller should inspect the content of the response to see which tasks failed.	BulkResponse
400	One of the specified objects requested was invalid. As a result, none of the tasks were attempted.	No Content

Example HTTP response

Response 200

```
{
  "status" : "ok",
  "tasks" : [ {
    "status" : "ok",
    "object" : "/clusters/cluster-
2/storage_volumes/VPD83T3:600014400000001001f6383efd6c62c9"
  }, {
    "status" : "error",
    "object" : "/clusters/cluster-
2/storage_volumes/VPD83T3:600014400000001001f6383efd6c62cb",
    "reason" : {
      "code" : "7",
      "cmd" : "amf rename amf",
      "params" : {
        "newname" : "bulk_claim_2"
      }
    }
  }
]
}
```

3.4. Certificates

3.4.1. Add the certificate to the keystore.

```
POST /external_certificates/trusted/{external_certificate}
```

Parameters

Type	Name	Description	Schema
Path	external_certificate <i>required</i>	The IP:PORT of system associated with this certificate.	string
Body	certificate_payload <i>required</i>		certificate_payload

Responses

HTTP Code	Description	Schema
201	Added the certificate to the keystore.	Certificate
500	Unable to add the certificate	Error

Consumes

- [application/json](#)

Produces

- [application/json](#)

Example HTTP response

Response 201

```
{
  "ip_address" : "10.228.69.183",
  "issued_to" : "CN=dsvef103.lss.emc.com",
  "issued_by" : "CN=dsvef103.lss.emc.com-3KWZ7Q XMS Root CA",
  "issued_on" : "Mon Sep 18 07:09:29 UTC 2017",
  "expires_on" : "Fri Sep 18 07:09:29 UTC 2020",
  "SHA1" : "0d e0 ad 22 f2 de 35 25 9c dd 4d 6f 2d e2 25 e0 62 db 70 f6",
  "MD5" : "2d e3 a0 b8 54 77 6c",
  "encoded_certificate" : "Mkjhsdhna1ka76e87dbnw8nk=="
}
```

3.4.2. Fetch the certificate from the keystore.

```
GET /external_certificates/trusted/{external_certificate}
```

Parameters

Type	Name	Description	Schema
Path	external_certificate <i>required</i>	The IP:PORT of system associated with this certificate.	string

Responses

HTTP Code	Description	Schema
200	Added the certificate to the keystore.	Certificate

Produces

- `application/json`

Example HTTP response

Response 200

```
{
  "ip_address" : "10.228.69.183",
  "issued_to" : "CN=dsvef103.lss.emc.com",
  "issued_by" : "CN=dsvef103.lss.emc.com-3KWZ7Q XMS Root CA",
  "issued_on" : "Mon Sep 18 07:09:29 UTC 2017",
  "expires_on" : "Fri Sep 18 07:09:29 UTC 2020",
  "SHA1" : "0d e0 ad 22 f2 de 35 25 9c dd 4d 6f 2d e2 25 e0 62 db 70 f6",
  "MD5" : "2d e3 a0 b8 54 77 6c",
  "encoded_certificate" : "Mkjhsdhna1ka76e87dbnw8nk=="
}
```

3.4.3. Remove the certificate from the keystore.

```
DELETE /external_certificates/trusted/{external_certificate}
```

Parameters

Type	Name	Description	Schema
Path	external_certificate <i>required</i>	The IP:PORT of system associated with this certificate.	string

Responses

HTTP Code	Description	Schema
204	Deleted the certificate from the keystore.	No Content

3.4.4. Fetches the SSL Certificate of an external system

```
GET /external_certificates/untrusted/{external_certificate}
```

Parameters

Type	Name	Description	Schema
Path	external_certificate <i>required</i>	The IP:PORT of system associated with this certificate.	string

Responses

HTTP Code	Description	Schema
200	A JSON Object with all the certificate details	Certificate

Produces

- `application/json`

Example HTTP response

Response 200

```
{
  "ip_address" : "10.228.69.183",
  "issued_to" : "CN=dsvef103.lss.emc.com",
  "issued_by" : "CN=dsvef103.lss.emc.com-3KWZ7Q XMS Root CA",
  "issued_on" : "Mon Sep 18 07:09:29 UTC 2017",
  "expires_on" : "Fri Sep 18 07:09:29 UTC 2020",
  "SHA1" : "0d e0 ad 22 f2 de 35 25 9c dd 4d 6f 2d e2 25 e0 62 db 70 f6",
  "MD5" : "2d e3 a0 b8 54 77 6c",
  "encoded_certificate" : "Mkjhsdhna1ka76e87dbnw8nk=="
}
```

3.5. Cluster_witness

3.5.1. Return the cluster witness wired to the system

```
GET /cluster_witness
```

Responses

HTTP Code	Description	Schema
200	The cluster witness	ClusterWitness
404	When no cluster witness is found	Error

Example HTTP response

Response 200

```
{
  "admin_state" : "enabled",
  "private_ip_address" : "128.221.254.3",
  "public_ip_address" : "10.226.27.3"
}
```

3.6. Clusters

3.6.1. Returns a list of the available clusters

```
GET /clusters/
```

Parameters

Type	Name	Description	Schema
Query	fields <i>optional</i>	Select which fields are included in the response. 'name' is always included. See FieldSelectionExpression for details.	string (FieldSelectionExpression)
Query	limit <i>optional</i>	<p>Maximum number of elements to include in paginated results. 'offset' must also be specified.</p>	integer (int32)
Query	offset <i>optional</i>	Index of the first element to include in paginated results. 'limit' must also be specified.</p>	integer (int32)
Query	sort_by <i>optional</i>	Specify the field priority order and direction for sorting. See SortingOrderExpression for details.	string (SortingOrderExpression)

Responses

HTTP Code	Description	Schema
200	A JSON array of clusters Headers : X-Total-Count (integer) : The total number of entities in the result set after filtering.	< Cluster > array

3.6.2. Return a Cluster matching the provided name

```
GET /clusters/{cluster_name}
```

Parameters

Type	Name	Description	Schema
Path	cluster_name <i>required</i>	The name of the cluster	string
Query	fields <i>optional</i>	Select which fields are included in the response. 'name' is always included. See FieldSelectionExpression for details.	string (FieldSelectionExpression)

Responses

HTTP Code	Description	Schema
200	A single Cluster	Cluster

Example HTTP response

Response 200

```
{
  "name" : "cluster-1",
  "cluster_id" : 1,
  "island_id" : 1,
  "allow_auto_join" : true,
  "connected" : true,
  "top_level_assembly" : "FNM00123456789",
  "operational_status" : "ok",
  "transition_indications" : [ ],
  "transition_progress" : [ ],
  "health_state" : "ok",
  "health_indications" : [ ],
  "system_time" : "Mon Nov 19 22:59:37 UTC 2018",
  "ip_address" : "10.6.209.205",
  "is_local" : true
}
```

3.6.3. Update attributes of a cluster

```
PATCH /clusters/{cluster_name}
```

Description

Settable attributes are 'name' and 'allow_auto_join'

Parameters

Type	Name	Description	Schema
Path	cluster_name <i>required</i>	The name of the cluster	string
Body	cluster_patch_payload <i>required</i>		< JsonPatchOp > array

Responses

HTTP Code	Description	Schema
200	The updated Cluster	Cluster

Example HTTP response

Response 200

```
{
  "name" : "cluster-1",
  "cluster_id" : 1,
  "island_id" : 1,
  "allow_auto_join" : true,
  "connected" : true,
  "top_level_assembly" : "FNM00123456789",
  "operational_status" : "ok",
  "transition_indications" : [ ],
  "transition_progress" : [ ],
  "health_state" : "ok",
  "health_indications" : [ ],
  "system_time" : "Mon Nov 19 22:59:37 UTC 2018",
  "ip_address" : "10.6.209.205",
  "is_local" : true
}
```

3.7. Consistency_group

3.7.1. Create a new ConsistencyGroup

```
POST /clusters/{cluster_name}/consistency_groups
```

Parameters

Type	Name	Description	Schema
Header	X-Include-Object <i>optional</i>	When passed as part of a POST request, controls whether the representation of the newly created object is included in the response. Defaults to 'true' which will include the object in the response. This header is useful because refreshing the newly created object is usually the slowest part of a POST operation.	string
Path	cluster_name <i>required</i>	The name of the cluster	string
Body	consistency_group_payload <i>required</i>		consistency_group_payload

Responses

HTTP Code	Description	Schema
201	Created Headers : Location (string) : URI of created ConsistencyGroup.	ConsistencyGroup
204	Created Headers : Location (string) : URI of created ConsistencyGroup.	No Content

Example HTTP response

Response 201

```

{
  "name" : "Test_CG",
  "operational_status" : [ {
    "cluster" : "/vplex/v2/clusters/cluster-1",
    "summary" : "ok",
    "details" : [ ]
  } ],
  "read_only" : false,
  "virtual_volumes" : [ "/vplex/v2/clusters/virtual_volumes/vvol1",
"/vplex/v2/clusters/virtual_volumes/vvol2" ]
}

```

3.7.2. Returns a list of ConsistencyGroups

GET /clusters/{cluster_name}/consistency_groups

Parameters

Type	Name	Description	Schema
Path	cluster_name <i>required</i>	The name of the cluster	string
Query	fields <i>optional</i>	Select which fields are included in the response. 'name' is always included. See FieldSelectionExpression for details.	string (FieldSelectionExpression)
Query	limit <i>optional</i>	<p>Maximum number of elements to include in paginated results. 'offset' must also be specified.</p>	integer (int32)
Query	name <i>optional</i>	Filter results by name. See LexicalQueryExpression for details.	string (LexicalQueryExpression)
Query	offset <i>optional</i>	Index of the first element to include in paginated results. 'limit' must also be specified.</p>	integer (int32)
Query	operational_status <i>optional</i>	Filter results by operational_status. See LexicalQueryExpression for details.	string (LexicalQueryExpression)
Query	sort_by <i>optional</i>	Specify the field priority order and direction for sorting. See SortingOrderExpression for details.	string (SortingOrderExpression)

Responses

HTTP Code	Description	Schema
200	A JSON array of consistency groups Headers : X-Total-Count (integer) : The total number of entities in the result set after filtering.	< ConsistencyGroup > array

Produces

- `application/json`

3.7.3. Returns a single ConsistencyGroup object

```
GET /clusters/{cluster_name}/consistency_groups/{name}
```

Parameters

Type	Name	Description	Schema
Path	cluster_name <i>required</i>	The name of the cluster	string
Path	name <i>required</i>	The name of a specific instance of the resource	string
Query	fields <i>optional</i>	Select which fields are included in the response. 'name' is always included. See FieldSelectionExpression for details.	string (FieldSelectionExpression)

Responses

HTTP Code	Description	Schema
200	A single ConsistencyGroup	ConsistencyGroup

Example HTTP response

Response 200

```
{
  "name" : "Test_CG",
  "operational_status" : [ {
    "cluster" : "/vplex/v2/clusters/cluster-1",
    "summary" : "ok",
    "details" : [ ]
  } ],
  "read_only" : false,
  "virtual_volumes" : [ "/vplex/v2/clusters/virtual_volumes/vvol1",
"/vplex/v2/clusters/virtual_volumes/vvol2" ]
}
```

3.7.4. Deletes a single ConsistencyGroup

```
DELETE /clusters/{cluster_name}/consistency_groups/{name}
```

Parameters

Type	Name	Description	Schema
Path	cluster_name <i>required</i>	The name of the cluster	string
Path	name <i>required</i>	The name of a specific instance of the resource	string

Responses

HTTP Code	Description	Schema
204	Deleted	No Content

3.7.5. Update attributes on a ConsistencyGroup

```
PATCH /clusters/{cluster_name}/consistency_groups/{name}
```

Description

Patchable attributes:

- * detach_rule (replace)
- * {"type": "winner", "cluster": <cluster_uri>, "delay": <delay_in_seconds>}
- * {"type": "no_automatic_winner"}
- * name (replace)
- * recoverpoint_enabled (replace)
- * storage_at_clusters (add/remove)
- * virtual_volumes (add/remove)

* visibility (add/remove)

Parameters

Type	Name	Description	Schema
Path	cluster_name <i>required</i>	The name of the cluster	string
Path	name <i>required</i>	The name of a specific instance of the resource	string
Body	consistency_group_patch_payload <i>required</i>		< JsonPatchOp > array

Responses

HTTP Code	Description	Schema
200	The updated ConsistencyGroup	ConsistencyGroup

Example HTTP response

Response 200

```
{
  "name" : "Test_CG",
  "operational_status" : [ {
    "cluster" : "/vplex/v2/clusters/cluster-1",
    "summary" : "ok",
    "details" : [ ]
  } ],
  "read_only" : false,
  "virtual_volumes" : [ "/vplex/v2/clusters/virtual_volumes/vvol1",
"/vplex/v2/clusters/virtual_volumes/vvol2" ]
}
```

3.8. Data_migration

3.8.1. Create a new DeviceMigration

```
POST /data_migrations/device_migrations
```

Parameters

Type	Name	Schema
Body	device_migration_payload <i>required</i>	device_migration_payload

Responses

HTTP Code	Description	Schema
201	Created Headers : Location (string) : URI of created DeviceMigration.	DeviceMigration

Example HTTP response

Response 201

```
{
  "name" : "D_dev_1_dev_2",
  "from_cluster" : "/vplex/v2/clusters/cluster-1",
  "percentage_done" : 3,
  "source" : "/vplex/v2/clusters/cluster-1/devices/dev_1",
  "start_time" : "Thu Oct 25 22:03:46 UTC 2018",
  "status" : "in-progress",
  "target" : "/vplex/v2/clusters/cluster-1/devices/dev_2",
  "to_cluster" : "/vplex/v2/clusters/cluster-1",
  "transfer_size" : 131072,
  "type" : "full",
  "source_exported" : false,
  "target_exported" : false
}
```

3.8.2. Returns a list of device migrations

```
GET /data_migrations/device_migrations
```

Parameters

Type	Name	Description	Schema
Query	fields <i>optional</i>	Select which fields are included in the response. 'name' is always included. See FieldSelectionExpression for details.	string (FieldSelectionExpression)
Query	from_cluster <i>optional</i>	Filter results by from_cluster. See LexicalQueryExpression for details.	string (LexicalQueryExpression)

Type	Name	Description	Schema
Query	limit <i>optional</i>	<p>Maximum number of elements to include in paginated results. 'offset' must also be specified.</p>	integer (int32)
Query	name <i>optional</i>	Filter results by name. See LexicalQueryExpression for details.	string (LexicalQueryExpression)
Query	offset <i>optional</i>	Index of the first element to include in paginated results. 'limit' must also be specified.</p>	integer (int32)
Query	sort_by <i>optional</i>	Specify the field priority order and direction for sorting. See SortingOrderExpression for details.	string (SortingOrderExpression)
Query	to_cluster <i>optional</i>	Filter results by to_cluster. See LexicalQueryExpression for details.	string (LexicalQueryExpression)

Responses

HTTP Code	Description	Schema
200	A JSON array of device migrations Headers : X-Total-Count (integer) : The total number of entities in the result set after filtering.	< DeviceMigration > array

3.8.3. Returns a single DeviceMigration object

```
GET /data_migrations/device_migrations/{name}
```

Parameters

Type	Name	Description	Schema
Path	name <i>required</i>	The name of a specific instance of the resource	string
Query	fields <i>optional</i>	Select which fields are included in the response. 'name' is always included. See FieldSelectionExpression for details.	string (FieldSelectionExpression)

Responses

HTTP Code	Description	Schema
200	A single DeviceMigration object	DeviceMigration

Example HTTP response

Response 200

```
{
  "name" : "D_dev_1_dev_2",
  "from_cluster" : "/vplex/v2/clusters/cluster-1",
  "percentage_done" : 3,
  "source" : "/vplex/v2/clusters/cluster-1/devices/dev_1",
  "start_time" : "Thu Oct 25 22:03:46 UTC 2018",
  "status" : "in-progress",
  "target" : "/vplex/v2/clusters/cluster-1/devices/dev_2",
  "to_cluster" : "/vplex/v2/clusters/cluster-1",
  "transfer_size" : 131072,
  "type" : "full",
  "source_exported" : false,
  "target_exported" : false
}
```

3.8.4. Deletes a single canceled or committed DeviceMigration

```
DELETE /data_migrations/device_migrations/{name}
```

Parameters

Type	Name	Description	Schema
Path	name <i>required</i>	The name of a specific instance of the resource	string

Responses

HTTP Code	Description	Schema
204	Deleted	No Content

3.8.5. Update attributes on a DeviceMigration

```
PATCH /data_migrations/device_migrations/{name}
```

Description

Settable attributes: 'name', 'transfer_size' and 'status'(replace)

Parameters

Type	Name	Description	Schema
Path	name <i>required</i>	The name of a specific instance of the resource	string
Body	device_migration_payload <i>required</i>		< JsonPatchOp > array

Responses

HTTP Code	Description	Schema
200	The updated DeviceMigration	DeviceMigration

Example HTTP response

Response 200

```
{
  "name" : "D_dev_1_dev_2",
  "from_cluster" : "/vplex/v2/clusters/cluster-1",
  "percentage_done" : 3,
  "source" : "/vplex/v2/clusters/cluster-1/devices/dev_1",
  "start_time" : "Thu Oct 25 22:03:46 UTC 2018",
  "status" : "in-progress",
  "target" : "/vplex/v2/clusters/cluster-1/devices/dev_2",
  "to_cluster" : "/vplex/v2/clusters/cluster-1",
  "transfer_size" : 131072,
  "type" : "full",
  "source_exported" : false,
  "target_exported" : false
}
```

3.8.6. Create a new ExtentMigration

```
POST /data_migrations/extent_migrations
```

Parameters

Type	Name	Schema
Body	extent_migration_payload <i>required</i>	extent_migration_payload

Responses

HTTP Code	Description	Schema
201	Created Headers : Location (string) : URI of created DeviceMigration.	ExtentMigration

Example HTTP response

Response 201

```
{
  "name" : "E_6bb8a76_1_6bb8a6a_1",
  "from_cluster" : "/vplex/v2/clusters/cluster-1",
  "percentage_done" : 15,
  "source" : "/vplex/v2/clusters/cluster-1/extents/extent_VPD83T3_60001440000001001d1794456bb8a76_1",
  "start_time" : "Mon Jan 21 23:25:35 UTC 2019",
  "status" : "in-progress",
  "target" : "/vplex/v2/clusters/cluster-1/extents/extent_VPD83T3_60001440000001001d1794456bb8a6a_1",
  "to_cluster" : "/vplex/v2/clusters/cluster-1",
  "transfer_size" : 131072,
  "type" : "full"
}
```

3.8.7. Returns a list of extent migrations

```
GET /data_migrations/extent_migrations
```

Parameters

Type	Name	Description	Schema
Query	fields <i>optional</i>	Select which fields are included in the response. 'name' is always included. See FieldSelectionExpression for details.	string (FieldSelectionExpression)
Query	from_cluster <i>optional</i>	Filter results by from_cluster. See LexicalQueryExpression for details.	string (LexicalQueryExpression)
Query	limit <i>optional</i>	<p>Maximum number of elements to include in paginated results. 'offset' must also be specified.</p>	integer (int32)
Query	name <i>optional</i>	Filter results by name. See LexicalQueryExpression for details.	string (LexicalQueryExpression)

Type	Name	Description	Schema
Query	offset <i>optional</i>	Index of the first element to include in paginated results. 'limit' must also be specified.	integer (int32)
Query	sort_by <i>optional</i>	Specify the field priority order and direction for sorting. See SortingOrderExpression for details.	string (SortingOrderExpression)
Query	to_cluster <i>optional</i>	Filter results by to_cluster. See LexicalQueryExpression for details.	string (LexicalQueryExpression)

Responses

HTTP Code	Description	Schema
200	A JSON array of extent migrations Headers : X-Total-Count (integer) : The total number of entities in the result set after filtering.	< ExtentMigration > array

3.8.8. Returns a single ExtentMigration object

```
GET /data_migrations/extent_migrations/{name}
```

Parameters

Type	Name	Description	Schema
Path	name <i>required</i>	The name of a specific instance of the resource	string
Query	fields <i>optional</i>	Select which fields are included in the response. 'name' is always included. See FieldSelectionExpression for details.	string (FieldSelectionExpression)

Responses

HTTP Code	Description	Schema
200	A single ExtentMigration object	ExtentMigration

Example HTTP response

Response 200

```
{
  "name" : "E_6bb8a76_1_6bb8a6a_1",
  "from_cluster" : "/vplex/v2/clusters/cluster-1",
  "percentage_done" : 15,
  "source" : "/vplex/v2/clusters/cluster-1/extends/extent_VPD83T3_60001440000001001d1794456bb8a76_1",
  "start_time" : "Mon Jan 21 23:25:35 UTC 2019",
  "status" : "in-progress",
  "target" : "/vplex/v2/clusters/cluster-1/extends/extent_VPD83T3_60001440000001001d1794456bb8a6a_1",
  "to_cluster" : "/vplex/v2/clusters/cluster-1",
  "transfer_size" : 131072,
  "type" : "full"
}
```

3.8.9. Deletes a single canceled or committed ExtentMigration

```
DELETE /data_migrations/extent_migrations/{name}
```

Parameters

Type	Name	Description	Schema
Path	name <i>required</i>	The name of a specific instance of the resource	string

Responses

HTTP Code	Description	Schema
204	Deleted	No Content

3.8.10. Update attributes on a ExtentMigration

```
PATCH /data_migrations/extent_migrations/{name}
```

Description

Settable attributes: 'name', 'transfer_size' and 'status'(replace)

Parameters

Type	Name	Description	Schema
Path	name <i>required</i>	The name of a specific instance of the resource	string

Type	Name	Description	Schema
Body	extent_migration_patch_payload <i>required</i>		< JsonPatchOp > array

Responses

HTTP Code	Description	Schema
200	The updated ExtentMigration	ExtentMigration

Example HTTP response

Response 200

```
{
  "name" : "E_6bb8a76_1_6bb8a6a_1",
  "from_cluster" : "/vplex/v2/clusters/cluster-1",
  "percentage_done" : 15,
  "source" : "/vplex/v2/clusters/cluster-1/
  extents/extent_VPD83T3_600014400000001001d1794456bb8a76_1",
  "start_time" : "Mon Jan 21 23:25:35 UTC 2019",
  "status" : "in-progress",
  "target" : "/vplex/v2/clusters/cluster-1/
  extents/extent_VPD83T3_600014400000001001d1794456bb8a6a_1",
  "to_cluster" : "/vplex/v2/clusters/cluster-1",
  "transfer_size" : 131072,
  "type" : "full"
}
```

3.9. Devices

3.9.1. Create a new Device

```
POST /clusters/{cluster_name}/devices
```

Parameters

Type	Name	Description	Schema
Header	X-Include-Object <i>optional</i>	When passed as part of a POST request, controls whether the representation of the newly created object is included in the response. Defaults to 'true' which will include the object in the response. This header is useful because refreshing the newly created object is usually the slowest part of a POST operation.	string
Path	cluster_name <i>required</i>	The name of the cluster	string
Body	device_payload <i>required</i>		device_payload

Responses

HTTP Code	Description	Schema
201	Created Headers : Location (string) : URI of created LocalDevice.	Device
204	Created Headers : Location (string) : URI of created LocalDevice.	No Content

Example HTTP response

Response 201

```

{
  "rebuild_progress" : "rebuild_progress",
  "operational_status" : "operational_status",
  "virtual_volume" : "virtual_volume",
  "top_level" : true,
  "stripe_depth" : "stripe_depth",
  "capacity" : 1.4658129805029452,
  "application_consistent" : true,
  "rebuild_type" : "rebuild_type",
  "rebuild_allowed" : true,
  "block_count" : 0.8008281904610115,
  "block_size" : 6.027456183070403,
  "transfer_size" : 5.962133916683182,
  "health_state" : "health_state",
  "thin_capable" : true,
  "visibility" : "visibility",
  "system_id" : "system_id",
  "auto_resume" : true,
  "locality" : "locality",
  "health_indications" : [ "health_indications", "health_indications" ],
  "storage_array_family" : "storage_array_family",
  "name" : "name",
  "service_status" : "service_status",
  "geometry" : "geometry",
  "rebuild_eta" : "rebuild_eta",
  "rebuild_status" : "rebuild_status"
}

```

3.9.2. Returns a list of Device objects

```
GET /clusters/{cluster_name}/devices
```

Parameters

Type	Name	Description	Schema
Path	cluster_name <i>required</i>	The name of the cluster	string
Query	capacity <i>optional</i>	Filter results by capacity. See NumericQueryExpression for details.	string (NumericQueryExpression)
Query	fields <i>optional</i>	Select which fields are included in the response. 'name' is always included. See FieldSelectionExpression for details.	string (FieldSelectionExpression)
Query	health_state <i>optional</i>	Filter results by health_state. See LexicalQueryExpression for details.	string (LexicalQueryExpression)

Type	Name	Description	Schema
Query	limit <i>optional</i>	<p>Maximum number of elements to include in paginated results. 'offset' must also be specified.	integer (int32)
Query	name <i>optional</i>	Filter results by name. See LexicalQueryExpression for details.	string (LexicalQueryExpression)
Query	offset <i>optional</i>	Index of the first element to include in paginated results. 'limit' must also be specified.	integer (int32)
Query	operational_status <i>optional</i>	Filter results by operational_status. See LexicalQueryExpression for details.	string (LexicalQueryExpression)
Query	sort_by <i>optional</i>	Specify the field priority order and direction for sorting. See SortingOrderExpression for details.	string (SortingOrderExpression)
Query	thin_capable <i>optional</i>	Filter results by thin_capable. See LexicalQueryExpression for details.	string (LexicalQueryExpression)
Query	top_level <i>optional</i>	Filter results by top_level.	boolean
Query	virtual_volume <i>optional</i>	Filter results by virtual_volume. See LexicalQueryExpression for details.	string (LexicalQueryExpression)
Query	visibility <i>optional</i>	Filter results by visibility. See LexicalQueryExpression for details.	string (LexicalQueryExpression)

Responses

HTTP Code	Description	Schema
200	A list of Device objects Headers : X-Total-Count (integer) : The total number of entities in the result set after filtering.	< Device > array

3.9.3. Returns a single Device object

```
GET /clusters/{cluster_name}/devices/{name}
```

Parameters

Type	Name	Description	Schema
Path	cluster_name <i>required</i>	The name of the cluster	string
Path	name <i>required</i>	The name of a specific instance of the resource	string
Query	fields <i>optional</i>	Select which fields are included in the response. 'name' is always included. See FieldSelectionExpression for details.	string (FieldSelectionExpression)

Responses

HTTP Code	Description	Schema
200	A single Device object	Device

Example HTTP response

Response 200

```
{
  "rebuild_progress" : "rebuild_progress",
  "operational_status" : "operational_status",
  "virtual_volume" : "virtual_volume",
  "top_level" : true,
  "stripe_depth" : "stripe_depth",
  "capacity" : 1.4658129805029452,
  "application_consistent" : true,
  "rebuild_type" : "rebuild_type",
  "rebuild_allowed" : true,
  "block_count" : 0.8008281904610115,
  "block_size" : 6.027456183070403,
  "transfer_size" : 5.962133916683182,
  "health_state" : "health_state",
  "thin_capable" : true,
  "visibility" : "visibility",
  "system_id" : "system_id",
  "auto_resume" : true,
  "locality" : "locality",
  "health_indications" : [ "health_indications", "health_indications" ],
  "storage_array_family" : "storage_array_family",
  "name" : "name",
  "service_status" : "service_status",
  "geometry" : "geometry",
  "rebuild_eta" : "rebuild_eta",
  "rebuild_status" : "rebuild_status"
}
```

3.9.4. Deletes a single Device

```
DELETE /clusters/{cluster_name}/devices/{name}
```

Parameters

Type	Name	Description	Schema
Path	cluster_name <i>required</i>	The name of the cluster	string
Path	name <i>required</i>	The name of a specific instance of the resource	string

Responses

HTTP Code	Description	Schema
204	Deleted	No Content

3.9.5. Update attributes of a local device

```
PATCH /clusters/{cluster_name}/devices/{name}
```

Description

Patchable operations:

- * name
- * transfer_size
- * attach_operation_payload
- * {"op": "add", "path": "/legs", "value": <device_uri>}
- * {"op": "add", "path": "/legs", "value": <extent_uri>}
- * detach_operation_payload
- * {"op": "remove", "path": "/legs", "value": <device_uri>}
- * {"op": "remove", "path": "/legs", "value": <extent_uri>}

Parameters

Type	Name	Description	Schema
Path	cluster_name <i>required</i>	The name of the cluster	string
Path	name <i>required</i>		string
Body	local_device_patch_payload <i>required</i>		< JsonPatchOp > array

Responses

HTTP Code	Description	Schema
200	The updated local device	Device

Example HTTP response

Response 200

```
{
  "rebuild_progress" : "rebuild_progress",
  "operational_status" : "operational_status",
  "virtual_volume" : "virtual_volume",
  "top_level" : true,
  "stripe_depth" : "stripe_depth",
  "capacity" : 1.4658129805029452,
  "application_consistent" : true,
  "rebuild_type" : "rebuild_type",
  "rebuild_allowed" : true,
  "block_count" : 0.8008281904610115,
  "block_size" : 6.027456183070403,
  "transfer_size" : 5.962133916683182,
  "health_state" : "health_state",
  "thin_capable" : true,
  "visibility" : "visibility",
  "system_id" : "system_id",
  "auto_resume" : true,
  "locality" : "locality",
  "health_indications" : [ "health_indications", "health_indications" ],
  "storage_array_family" : "storage_array_family",
  "name" : "name",
  "service_status" : "service_status",
  "geometry" : "geometry",
  "rebuild_eta" : "rebuild_eta",
  "rebuild_status" : "rebuild_status"
}
```

3.10. Director

3.10.1. Returns a list of the available directors

```
GET /directors
```

Parameters

Type	Name	Description	Schema
Query	fields <i>optional</i>	Select which fields are included in the response. 'name' is always included. See FieldSelectionExpression for details.	string (FieldSelectionExpression)
Query	health_state <i>optional</i>	Filter results by health_state. See LexicalQueryExpression for details.	string (LexicalQueryExpression)
Query	limit <i>optional</i>	<p>Maximum number of elements to include in paginated results. 'offset' must also be specified.	integer (int32)
Query	offset <i>optional</i>	Index of the first element to include in paginated results. 'limit' must also be specified.	integer (int32)
Query	operational_status <i>optional</i>	Filter results by operational_status. See LexicalQueryExpression for details.	string (LexicalQueryExpression)
Query	sort_by <i>optional</i>	Specify the field priority order and direction for sorting. See SortingOrderExpression for details.	string (SortingOrderExpression)

Responses

HTTP Code	Description	Schema
200	A JSON array of directors Headers : X-Total-Count (integer) : The total number of entities in the result set after filtering.	< Director > array

3.10.2. Return a Director matching the provided name

```
GET /directors/{name}
```

Parameters

Type	Name	Description	Schema
Path	name <i>required</i>	The name of a specific instance of the resource	string
Query	fields <i>optional</i>	Select which fields are included in the response. 'name' is always included. See FieldSelectionExpression for details.	string (FieldSelectionExpression)

Responses

HTTP Code	Description	Schema
200	A single Director	Director

Example HTTP response

Response 200

```
{
  "auto_boot" : true,
  "auto_restart" : true,
  "cluster_id" : 1,
  "communication_status" : "ok",
  "director_count" : 2,
  "director_id" : 16857344,
  "director_type" : "Vplex",
  "engine_id" : "1-1",
  "firmware_uptime" : 1220711,
  "health_indications" : [ ],
  "health_state" : "ok",
  "hostname" : "128.221.252.35",
  "name" : "director-1-1-A",
  "operational_status" : "ok",
  "os_uptime" : 1487715,
  "port" : 5988,
  "serial_number" : "CF2HW150600003",
  "system_time" : "Mon Nov 19 22:59:37 UTC 2018",
  "temperature_threshold_exceeded" : false,
  "voltage_threshold_exceeded" : false,
  "vplex_kdriver_status" : "ok"
}
```

3.11. Distributed_storage

3.11.1. Create a new distributed ConsistencyGroup

```
POST /distributed_storage/distributed_consistency_groups
```

Parameters

Type	Name	Description	Schema
Header	X-Include-Object <i>optional</i>	When passed as part of a POST request, controls whether the representation of the newly created object is included in the response. Defaults to 'true' which will include the object in the response. This header is useful because refreshing the newly created object is usually the slowest part of a POST operation.	string
Body	distributed_consistency_group_payload <i>required</i>		distributed_consistency_group_payload

Responses

HTTP Code	Description	Schema
201	Created Headers : Location (string) : URI of created distributed ConsistencyGroup.	ConsistencyGroup
204	Created Headers : Location (string) : URI of created distributed ConsistencyGroup.	No Content

Example HTTP response

Response 201

```
{
  "name" : "Test_CG",
  "operational_status" : [ {
    "cluster" : "/vplex/v2/clusters/cluster-1",
    "summary" : "ok",
    "details" : [ ]
  } ],
  "read_only" : false,
  "virtual_volumes" : [ "/vplex/v2/clusters/virtual_volumes/vvol1",
"/vplex/v2/clusters/virtual_volumes/vvol2" ]
}
```

3.11.2. Returns a list of distributed ConsistencyGroups

```
GET /distributed_storage/distributed_consistency_groups
```

Parameters

Type	Name	Description	Schema
Query	fields <i>optional</i>	Select which fields are included in the response. 'name' is always included. See FieldSelectionExpression for details.	string (FieldSelectionExpression)
Query	limit <i>optional</i>	<p>Maximum number of elements to include in paginated results. 'offset' must also be specified.</p>	integer (int32)
Query	name <i>optional</i>	Filter results by name. See LexicalQueryExpression for details.	string (LexicalQueryExpression)
Query	offset <i>optional</i>	Index of the first element to include in paginated results. 'limit' must also be specified.</p>	integer (int32)
Query	operational_status <i>optional</i>	Filter results by operational_status. See LexicalQueryExpression for details.	string (LexicalQueryExpression)
Query	sort_by <i>optional</i>	Specify the field priority order and direction for sorting. See SortingOrderExpression for details.	string (SortingOrderExpression)

Responses

HTTP Code	Description	Schema
200	A JSON array of distributed consistency groups	< ConsistencyGroup > array

3.11.3. Returns a single distributed ConsistencyGroup object

```
GET /distributed_storage/distributed_consistency_groups/{name}
```

Parameters

Type	Name	Description	Schema
Path	name <i>required</i>	The name of a specific instance of the resource	string

Responses

HTTP Code	Description	Schema
200	A single distributed ConsistencyGroup	ConsistencyGroup

Example HTTP response

Response 200

```
{
  "name" : "Test_CG",
  "operational_status" : [ {
    "cluster" : "/vplex/v2/clusters/cluster-1",
    "summary" : "ok",
    "details" : [ ]
  } ],
  "read_only" : false,
  "virtual_volumes" : [ "/vplex/v2/clusters/virtual_volumes/vvol1",
"/vplex/v2/clusters/virtual_volumes/vvol2" ]
}
```

3.11.4. Deletes a single distributed ConsistencyGroup

```
DELETE /distributed_storage/distributed_consistency_groups/{name}
```

Parameters

Type	Name	Description	Schema
Path	name <i>required</i>	The name of a specific instance of the resource	string

Responses

HTTP Code	Description	Schema
204	Deleted	No Content

3.11.5. Update attributes on a distributed ConsistencyGroup

```
PATCH /distributed_storage/distributed_consistency_groups/{name}
```

Description

Patchable attributes are 'storage_at_clusters' (add/remove), 'virtual_volumes' (add/remove), 'visibility' (add/remove), 'name', 'recoverpoint_enabled', 'auto_resume_at_loser' and 'detach_rule'

Parameters

Type	Name	Description	Schema
Path	name <i>required</i>	The name of a specific instance of the resource	string
Body	distributed_consistency_group_patch_payload <i>required</i>		< JsonPatchOp > array

Responses

HTTP Code	Description	Schema
200	The updated distributed ConsistencyGroup	ConsistencyGroup

Example HTTP response

Response 200

```
{
  "name" : "Test_CG",
  "operational_status" : [ {
    "cluster" : "/vplex/v2/clusters/cluster-1",
    "summary" : "ok",
    "details" : [ ]
  } ],
  "read_only" : false,
  "virtual_volumes" : [ "/vplex/v2/clusters/virtual_volumes/vvol1",
"/vplex/v2/clusters/virtual_volumes/vvol2" ]
}
```

3.11.6. Manually resume I/O to the virtual-volumes in a distributed consistency group. In a cluster-partition scenario where the ruleset does not indicate an automatic winner, this endpoint will select the winning cluster where I/O should continue. After a cluster-partition is resolved, in the case that auto-resume-at-loser is set to false, this endpoint will resume I/O on the losing cluster.

```
POST /distributed_storage/distributed_consistency_groups/{name}/resume
```

Parameters

Type	Name	Description	Schema
Path	name <i>required</i>	The name of a specific instance of the resource	string

Type	Name	Description	Schema
Body	cg_resume_payload <i>required</i>		cg_resume_payload

Responses

HTTP Code	Description	Schema
200	A JSON array of distributed consistency groups	ConsistencyGroup

Produces

- `application/json`

Example HTTP response

Response 200

```
{
  "name" : "Test_CG",
  "operational_status" : [ {
    "cluster" : "/vplex/v2/clusters/cluster-1",
    "summary" : "ok",
    "details" : [ ]
  } ],
  "read_only" : false,
  "virtual_volumes" : [ "/vplex/v2/clusters/virtual_volumes/vvol1",
"/vplex/v2/clusters/virtual_volumes/vvol2" ]
}
```

3.11.7. Create a new DistributedDevice

```
POST /distributed_storage/distributed_devices
```

Parameters

Type	Name	Description	Schema
Header	X-Include-Object <i>optional</i>	When passed as part of a POST request, controls whether the representation of the newly created object is included in the response. Defaults to 'true' which will include the object in the response. This header is useful because refreshing the newly created object is usually the slowest part of a POST operation.	string

Type	Name	Description	Schema
Body	distributed_device_payload <i>required</i>		distributed_device_payload

Responses

HTTP Code	Description	Schema
201	Created Headers : Location (string) : URI of created DistributedDevice.	DistributedDevice
204	Created Headers : Location (string) : URI of created DistributedDevice.	No Content

Example HTTP response

Response 201

```
{
  "rebuild_progress" : 1,
  "health_state" : "health_state",
  "operational_status" : "operational_status",
  "thin_capable" : true,
  "virtual_volume" : "virtual_volume",
  "rule_set_name" : "rule_set_name",
  "health_indications" : [ "health_indications", "health_indications" ],
  "capacity" : 0,
  "rebuild_type" : "rebuild_type",
  "storage_array_family" : { },
  "rebuild_allowed" : true,
  "name" : "name",
  "service_status" : "service_status",
  "geometry" : "geometry",
  "rebuild_eta" : 6,
  "rebuild_status" : "rebuild_status"
}
```

3.11.8. Returns a list of DistributedDevices

```
GET /distributed_storage/distributed_devices
```

Parameters

Type	Name	Description	Schema
Query	capacity <i>optional</i>	Filter results by capacity. See NumericQueryExpression for details.	string (NumericQueryExpression)
Query	fields <i>optional</i>	Select which fields are included in the response. 'name' is always included. See FieldSelectionExpression for details.	string (FieldSelectionExpression)
Query	health_state <i>optional</i>	Filter results by health_state. See LexicalQueryExpression for details.	string (LexicalQueryExpression)
Query	limit <i>optional</i>	<p>Maximum number of elements to include in paginated results. 'offset' must also be specified.</p>	integer (int32)
Query	name <i>optional</i>	Filter results by name. See LexicalQueryExpression for details.	string (LexicalQueryExpression)
Query	offset <i>optional</i>	Index of the first element to include in paginated results. 'limit' must also be specified.</p>	integer (int32)
Query	operational_status <i>optional</i>	Filter results by operational_status. See LexicalQueryExpression for details.	string (LexicalQueryExpression)
Query	sort_by <i>optional</i>	Specify the field priority order and direction for sorting. See SortingOrderExpression for details.	string (SortingOrderExpression)
Query	thin_capable <i>optional</i>	Filter results by thin_capable. See LexicalQueryExpression for details.	string (LexicalQueryExpression)

Responses

HTTP Code	Description	Schema
200	A JSON array of distributed devices Headers : X-Total-Count (integer) : The total number of entities in the result set after filtering.	< DistributedDevice > array

Produces

- `application/json`

3.11.9. Returns a single DistributedDevice object

```
GET /distributed_storage/distributed_devices/{name}
```

Parameters

Type	Name	Description	Schema
Path	name <i>required</i>	The name of a specific instance of the resource	string
Query	fields <i>optional</i>	Select which fields are included in the response. 'name' is always included. See FieldSelectionExpression for details.	string (FieldSelectionExpression)

Responses

HTTP Code	Description	Schema
200	A single DistributedDevice	DistributedDevice

Example HTTP response

Response 200

```
{
  "rebuild_progress" : 1,
  "health_state" : "health_state",
  "operational_status" : "operational_status",
  "thin_capable" : true,
  "virtual_volume" : "virtual_volume",
  "rule_set_name" : "rule_set_name",
  "health_indications" : [ "health_indications", "health_indications" ],
  "capacity" : 0,
  "rebuild_type" : "rebuild_type",
  "storage_array_family" : { },
  "rebuild_allowed" : true,
  "name" : "name",
  "service_status" : "service_status",
  "geometry" : "geometry",
  "rebuild_eta" : 6,
  "rebuild_status" : "rebuild_status"
}
```

3.11.10. Deletes a single DistributedDevice

```
DELETE /distributed_storage/distributed_devices/{name}
```

Parameters

Type	Name	Description	Schema
Path	name <i>required</i>	The name of a specific instance of the resource	string

Responses

HTTP Code	Description	Schema
204	Deleted	No Content

3.11.11. Update attributes on a DistributedDevice

```
PATCH /distributed_storage/distributed_devices/{name}
```

Description

Settable attributes: 'name', 'legs', 'transfer_size', 'rule_set_name'

Parameters

Type	Name	Description	Schema
Path	name <i>required</i>	The name of a specific instance of the resource	string
Body	distributed_device_patch_payload <i>required</i>		< JsonPatchOp > array

Responses

HTTP Code	Description	Schema
200	The updated DistributedDevice	DistributedDevice

Example HTTP response

Response 200

```

{
  "rebuild_progress" : 1,
  "health_state" : "health_state",
  "operational_status" : "operational_status",
  "thin_capable" : true,
  "virtual_volume" : "virtual_volume",
  "rule_set_name" : "rule_set_name",
  "health_indications" : [ "health_indications", "health_indications" ],
  "capacity" : 0,
  "rebuild_type" : "rebuild_type",
  "storage_array_family" : { },
  "rebuild_allowed" : true,
  "name" : "name",
  "service_status" : "service_status",
  "geometry" : "geometry",
  "rebuild_eta" : 6,
  "rebuild_status" : "rebuild_status"
}

```

3.11.12. Manually resume I/O to a distributed device that supports a distributed virtual-volume.

POST /distributed_storage/distributed_devices/{name}/resume

Parameters

Type	Name	Description	Schema
Path	name <i>required</i>	The name of a specific instance of the resource	string

Responses

HTTP Code	Description	Schema
200	A distributed device object	DistributedDevice

Produces

- `application/json`

Example HTTP response

Response 200

```

{
  "rebuild_progress" : 1,
  "health_state" : "health_state",
  "operational_status" : "operational_status",
  "thin_capable" : true,
  "virtual_volume" : "virtual_volume",
  "rule_set_name" : "rule_set_name",
  "health_indications" : [ "health_indications", "health_indications" ],
  "capacity" : 0,
  "rebuild_type" : "rebuild_type",
  "storage_array_family" : { },
  "rebuild_allowed" : true,
  "name" : "name",
  "service_status" : "service_status",
  "geometry" : "geometry",
  "rebuild_eta" : 6,
  "rebuild_status" : "rebuild_status"
}

```

3.11.13. Create a new distributed VirtualVolume

POST /distributed_storage/distributed_virtual_volumes

Parameters

Type	Name	Description	Schema
Header	X-Include-Object <i>optional</i>	When passed as part of a POST request, controls whether the representation of the newly created object is included in the response. Defaults to 'true' which will include the object in the response. This header is useful because refreshing the newly created object is usually the slowest part of a POST operation.	string
Body	distributed_virtual_volume_payload <i>required</i>		distributed_virtual_volume_payload

Responses

HTTP Code	Description	Schema
201	Created Headers : Location (string) : URI of created distributed VirtualVolume.	VirtualVolume

HTTP Code	Description	Schema
204	Created Headers : Location (string) : URI of created distributed VirtualVolume.	No Content

Example HTTP response

Response 201

```
{
  "name" : "TEST_vvol",
  "operational_status" : "ok",
  "health_state" : "ok",
  "service_status" : "running",
  "block_count" : 524288,
  "block_size" : 4096,
  "capacity" : 2147483648,
  "locality" : "local",
  "expandable" : true,
  "vpd_id" : "VPD83T3:6000144000000010016d5f9474ade8e0",
  "thin_enabled" : "disabled",
  "storage_array_family" : "unknown",
  "supporting_device" : "TEST",
  "visibility" : "local"
}
```

3.11.14. Returns a list of distributed VirtualVolumes

```
GET /distributed_storage/distributed_virtual_volumes
```

Parameters

Type	Name	Description	Schema
Query	capacity <i>optional</i>	Filter results by capacity. See NumericQueryExpression for details.	string (NumericQueryExpression)
Query	consistency_group <i>optional</i>	Filter results by consistency_group. See LexicalQueryExpression for details.	string (LexicalQueryExpression)
Query	fields <i>optional</i>	Select which fields are included in the response. 'name' is always included. See FieldSelectionExpression for details.	string (FieldSelectionExpression)
Query	health_state <i>optional</i>	Filter results by health_state. See LexicalQueryExpression for details.	string (LexicalQueryExpression)

Type	Name	Description	Schema
Query	limit <i>optional</i>	<p>Maximum number of elements to include in paginated results. 'offset' must also be specified.</p>	integer (int32)
Query	name <i>optional</i>	Filter results by name. See LexicalQueryExpression for details.	string (LexicalQueryExpression)
Query	offset <i>optional</i>	Index of the first element to include in paginated results. 'limit' must also be specified.</p>	integer (int32)
Query	operational_status <i>optional</i>	Filter results by operational_status. See LexicalQueryExpression for details.	string (LexicalQueryExpression)
Query	service_status <i>optional</i>	Filter results by service_status. See LexicalQueryExpression for details.	string (LexicalQueryExpression)
Query	sort_by <i>optional</i>	Specify the field priority order and direction for sorting. See SortingOrderExpression for details.	string (SortingOrderExpression)
Query	thin_enabled <i>optional</i>	Filter results by thin_enabled. See LexicalQueryExpression for details.	string (LexicalQueryExpression)

Responses

HTTP Code	Description	Schema
200	A JSON array of distributed virtual volumes	< VirtualVolume > array

3.11.15. Returns a single distributed VirtualVolume object

```
GET /distributed_storage/distributed_virtual_volumes/{name}
```

Parameters

Type	Name	Description	Schema
Path	name <i>required</i>	The name of a specific instance of the resource	string

Responses

HTTP Code	Description	Schema
200	A single distributed VirtualVolume	VirtualVolume

Example HTTP response

Response 200

```
{
  "name" : "TEST_vvol",
  "operational_status" : "ok",
  "health_state" : "ok",
  "service_status" : "running",
  "block_count" : 524288,
  "block_size" : 4096,
  "capacity" : 2147483648,
  "locality" : "local",
  "expandable" : true,
  "vpd_id" : "VPD83T3:6000144000000010016d5f9474ade8e0",
  "thin_enabled" : "disabled",
  "storage_array_family" : "unknown",
  "supporting_device" : "TEST",
  "visibility" : "local"
}
```

3.11.16. Deletes a single distributed VirtualVolume

```
DELETE /distributed_storage/distributed_virtual_volumes/{name}
```

Parameters

Type	Name	Description	Schema
Path	name <i>required</i>	The name of a specific instance of the resource	string

Responses

HTTP Code	Description	Schema
204	Deleted	No Content

3.11.17. Update attributes on a distributed VirtualVolume

```
PATCH /distributed_storage/distributed_virtual_volumes/{name}
```

Description

Settable attributes: 'name'

Parameters

Type	Name	Description	Schema
Path	name <i>required</i>	The name of a specific instance of the resource	string
Body	distributed_virtual_volume_patch_payload <i>required</i>		< JsonPatchOp > array

Responses

HTTP Code	Description	Schema
200	The updated distributed VirtualVolume	VirtualVolume

Example HTTP response

Response 200

```
{
  "name" : "TEST_vvol",
  "operational_status" : "ok",
  "health_state" : "ok",
  "service_status" : "running",
  "block_count" : 524288,
  "block_size" : 4096,
  "capacity" : 2147483648,
  "locality" : "local",
  "expandable" : true,
  "vpd_id" : "VPD83T3:6000144000000010016d5f9474ade8e0",
  "thin_enabled" : "disabled",
  "storage_array_family" : "unknown",
  "supporting_device" : "TEST",
  "visibility" : "local"
}
```

3.11.18. Expand the capacity of a distributed VirtualVolume

```
POST /distributed_storage/distributed_virtual_volumes/{name}/expand
```

Parameters

Type	Name	Description	Schema
Path	name <i>required</i>	The name of a specific instance of the resource	string

Type	Name	Description	Schema
Body	distributed_virtual_volume_expand_payload <i>required</i>		distributed_virtual_volume_expand_payload

Responses

HTTP Code	Description	Schema
200	Updated distributed VirtualVolume	VirtualVolume

Example HTTP response

Response 200

```
{
  "name" : "TEST_vvol",
  "operational_status" : "ok",
  "health_state" : "ok",
  "service_status" : "running",
  "block_count" : 524288,
  "block_size" : 4096,
  "capacity" : 2147483648,
  "locality" : "local",
  "expandable" : true,
  "vpd_id" : "VPD83T3:6000144000000010016d5f9474ade8e0",
  "thin_enabled" : "disabled",
  "storage_array_family" : "unknown",
  "supporting_device" : "TEST",
  "visibility" : "local"
}
```

3.11.19. Returns a list of RuleSets

```
GET /distributed_storage/rule_sets
```

Parameters

Type	Name	Description	Schema
Query	limit <i>optional</i>	<p>Maximum number of elements to include in paginated results. 'offset' must also be specified.	integer (int32)

Type	Name	Description	Schema
Query	name <i>optional</i>	Filter results by name. See LexicalQueryExpression for details.	string (LexicalQueryExpression)
Query	offset <i>optional</i>	Index of the first element to include in paginated results. 'limit' must also be specified.	integer (int32)

Responses

HTTP Code	Description	Schema
200	A JSON array of rule sets	< RuleSet > array

Produces

- `application/json`

3.11.20. Returns a single RuleSet object

```
GET /distributed_storage/rule_sets/{name}
```

Parameters

Type	Name	Description	Schema
Path	name <i>required</i>	The name of a specific instance of the resource	string

Responses

HTTP Code	Description	Schema
200	A single RuleSet	RuleSet

Example HTTP response

Response 200

```
{
  "name" : "name"
}
```

3.12. Engine

3.12.1. Returns a list of the available engines

```
GET /engines/
```

Parameters

Type	Name	Description	Schema
Query	fields <i>optional</i>	Select which fields are included in the response. 'name' is always included. See FieldSelectionExpression for details.	string (FieldSelectionExpression)
Query	health_state <i>optional</i>	Filter results by health_state. See LexicalQueryExpression for details.	string (LexicalQueryExpression)
Query	limit <i>optional</i>	<p>Maximum number of elements to include in paginated results. 'offset' must also be specified.</p>	integer (int32)
Query	offset <i>optional</i>	Index of the first element to include in paginated results. 'limit' must also be specified.</p>	integer (int32)
Query	operational_status <i>optional</i>	Filter results by operational_status. See LexicalQueryExpression for details.	string (LexicalQueryExpression)
Query	sort_by <i>optional</i>	Specify the field priority order and direction for sorting. See SortingOrderExpression for details.	string (SortingOrderExpression)

Responses

HTTP Code	Description	Schema
200	A JSON array of engines Headers : X-Total-Count (integer) : The total number of entities in the result set after filtering.	< Engine > array

3.12.2. Return a Engine matching the provided name

```
GET /engines/{name}
```

Parameters

Type	Name	Description	Schema
Path	name <i>required</i>	The name of a specific instance of the resource	string

Type	Name	Description	Schema
Query	fields <i>optional</i>	Select which fields are included in the response. 'name' is always included. See FieldSelectionExpression for details.	string (FieldSelectionExpression)

Responses

HTTP Code	Description	Schema
200	A single Engine	Engine

Example HTTP response

Response 200

```
{
  "cluster_ip_seed" : 1,
  "enclosure_id" : 1,
  "engine_id" : "1-1",
  "engine_family" : "VPL",
  "health_indications" : [ ],
  "health_state" : "major-failure",
  "marker_led" : false,
  "operational_status" : "online",
  "part_number" : "303-094-001B",
  "revision_number" : "B01",
  "serial_number" : "CF2G6110200066",
  "top_level_assembly" : "FNM00111600426",
  "wwn_seed" : "46e03e04",
  "name" : "engine-1-1"
}
```

3.13. Exports

3.13.1. Registers an InitiatorPort

```
POST /clusters/{cluster_name}/exports/initiator_ports
```

Parameters

Type	Name	Description	Schema
Path	cluster_name <i>required</i>	The name of the cluster	string

Type	Name	Description	Schema
Body	register_payload <i>required</i>		register_payload

Responses

HTTP Code	Description	Schema
201	The registration was successful, return registered InitiatorPort	InitiatorPort

Example HTTP response

Response 201

```
{
  "iscsi_name" : "iscsi_name",
  "node_wwn" : "node_wwn",
  "name" : "name",
  "type" : "type",
  "target_ports" : [ "target_ports", "target_ports" ],
  "iops_limit" : 0,
  "bandwidth_limit" : "bandwidth_limit",
  "port_wwn" : "port_wwn"
}
```

3.13.2. Returns a list of InitiatorPort objects

```
GET /clusters/{cluster_name}/exports/initiator_ports
```

Parameters

Type	Name	Description	Schema
Path	cluster_name <i>required</i>	The name of the cluster	string
Query	fields <i>optional</i>	Select which fields are included in the response. 'name' is always included. See FieldSelectionExpression for details.	string (FieldSelectionExpression)
Query	limit <i>optional</i>	<p>Maximum number of elements to include in paginated results. 'offset' must also be specified.	integer (int32)
Query	name <i>optional</i>	Filter results by name. See LexicalQueryExpression for details.	string (LexicalQueryExpression)

Type	Name	Description	Schema
Query	offset <i>optional</i>	Index of the first element to include in paginated results. 'limit' must also be specified.	integer (int32)
Query	sort_by <i>optional</i>	Specify the field priority order and direction for sorting. See SortingOrderExpression for details.	string (SortingOrderExpression)
Query	type <i>optional</i>	Filter results by type. See LexicalQueryExpression for details.	string (LexicalQueryExpression)

Responses

HTTP Code	Description	Schema
200	A list of InitiatorPort objects Headers : X-Total-Count (integer) : The total number of entities in the result set after filtering.	< InitiatorPort > array

3.13.3. Rediscover initiator ports

```
POST /clusters/{cluster_name}/exports/initiator_ports/rediscover
```

Parameters

Type	Name	Description	Schema
Path	cluster_name <i>required</i>	The name of the cluster	string
Body	rediscover_payload <i>optional</i>		rediscover_payload

Responses

HTTP Code	Description	Schema
200	A list of InitiatorPort objects	< InitiatorPort > array

3.13.4. Returns a single InitiatorPort object

```
GET /clusters/{cluster_name}/exports/initiator_ports/{name}
```


Parameters

Type	Name	Description	Schema
Path	cluster_name <i>required</i>	The name of the cluster	string
Path	name <i>required</i>	The name of a specific instance of the resource	string
Query	fields <i>optional</i>	Select which fields are included in the response. 'name' is always included. See FieldSelectionExpression for details.	string (FieldSelectionExpression)

Responses

HTTP Code	Description	Schema
200	A single InitiatorPort	InitiatorPort

Example HTTP response

Response 200

```
{
  "iscsi_name" : "iscsi_name",
  "node_wwn" : "node_wwn",
  "name" : "name",
  "type" : "type",
  "target_ports" : [ "target_ports", "target_ports" ],
  "iops_limit" : 0,
  "bandwidth_limit" : "bandwidth_limit",
  "port_wwn" : "port_wwn"
}
```

3.13.5. Unregister an InitiatorPort

```
DELETE /clusters/{cluster_name}/exports/initiator_ports/{name}
```

Parameters

Type	Name	Description	Schema
Path	cluster_name <i>required</i>	The name of the cluster	string
Path	name <i>required</i>	The name of a specific instance of the resource	string

Responses

HTTP Code	Description	Schema
204	The un-registration was successful	No Content

3.13.6. Update attributes on an InitiatorPort

```
PATCH /clusters/{cluster_name}/exports/initiator_ports/{name}
```

Description

Settable attributes: 'name','iops_limit','bandwidth_limit'

Parameters

Type	Name	Description	Schema
Path	cluster_name <i>required</i>	The name of the cluster	string
Path	name <i>required</i>	The name of a specific instance of the resource	string
Body	initiator_port_patch_payload <i>required</i>		< JsonPatchOp > array

Responses

HTTP Code	Description	Schema
200	The updated InitiatorPort	InitiatorPort

Example HTTP response

Response 200

```
{
  "iscsi_name" : "iscsi_name",
  "node_wwn" : "node_wwn",
  "name" : "name",
  "type" : "type",
  "target_ports" : [ "target_ports", "target_ports" ],
  "iops_limit" : 0,
  "bandwidth_limit" : "bandwidth_limit",
  "port_wwn" : "port_wwn"
}
```

3.13.7. Returns a list of Port objects

```
GET /clusters/{cluster_name}/exports/ports
```

Parameters

Type	Name	Description	Schema
Path	cluster_name <i>required</i>	The name of the cluster	string
Query	fields <i>optional</i>	Select which fields are included in the response. 'name' is always included. See FieldSelectionExpression for details.	string (FieldSelectionExpression)
Query	limit <i>optional</i>	<p>Maximum number of elements to include in paginated results. 'offset' must also be specified.</p>	integer (int32)
Query	name <i>optional</i>	Filter results by name. See LexicalQueryExpression for details.	string (LexicalQueryExpression)
Query	offset <i>optional</i>	Index of the first element to include in paginated results. 'limit' must also be specified.</p>	integer (int32)
Query	sort_by <i>optional</i>	Specify the field priority order and direction for sorting. See SortingOrderExpression for details.	string (SortingOrderExpression)

Responses

HTTP Code	Description	Schema
200	A list of Port objects	< Port > array

3.13.8. Returns a single Port object

```
GET /clusters/{cluster_name}/exports/ports/{name}
```

Parameters

Type	Name	Description	Schema
Path	cluster_name <i>required</i>	The name of the cluster	string
Path	name <i>required</i>	The name of a specific instance of the resource	string

Responses

HTTP Code	Description	Schema
200	A single Port	Port

Example HTTP response

Response 200

```
{
  "export_status" : "export_status",
  "iscsi_name" : "iscsi_name",
  "node_wwn" : "node_wwn",
  "director" : "director",
  "exports" : [ {
    "volume" : "volume",
    "view" : "view",
    "lun" : "lun",
    "status" : "status"
  }, {
    "volume" : "volume",
    "view" : "view",
    "lun" : "lun",
    "status" : "status"
  } ],
  "name" : "name",
  "discovered_initiators" : [ "discovered_initiators", "discovered_initiators" ],
  "enabled" : true,
  "port_wwn" : "port_wwn",
  "director_id" : "director_id"
}
```

3.13.9. Update attributes on a Port

```
PATCH /clusters/{cluster_name}/exports/ports/{name}
```

Description

Settable attributes are 'name' and 'enabled'

Parameters

Type	Name	Description	Schema
Path	cluster_name <i>required</i>	The name of the cluster	string

Type	Name	Description	Schema
Path	name <i>required</i>	The name of a specific instance of the resource	string
Body	port_patch_payload <i>required</i>		< JsonPatchOp > array

Responses

HTTP Code	Description	Schema
200	The updated Port	Port

Example HTTP response

Response 200

```
{
  "export_status" : "export_status",
  "iscsi_name" : "iscsi_name",
  "node_wwn" : "node_wwn",
  "director" : "director",
  "exports" : [ {
    "volume" : "volume",
    "view" : "view",
    "lun" : "lun",
    "status" : "status"
  }, {
    "volume" : "volume",
    "view" : "view",
    "lun" : "lun",
    "status" : "status"
  } ],
  "name" : "name",
  "discovered_initiators" : [ "discovered_initiators", "discovered_initiators" ],
  "enabled" : true,
  "port_wwn" : "port_wwn",
  "director_id" : "director_id"
}
```

3.13.10. Create a new StorageView

```
POST /clusters/{cluster_name}/exports/storage_views
```

Parameters

Type	Name	Description	Schema
Header	X-Include-Object <i>optional</i>	When passed as part of a POST request, controls whether the representation of the newly created object is included in the response. Defaults to 'true' which will include the object in the response. This header is useful because refreshing the newly created object is usually the slowest part of a POST operation.	string
Path	cluster_name <i>required</i>	The name of the cluster	string
Body	storage_view_payload <i>required</i>		storage_view_payload

Responses

HTTP Code	Description	Schema
201	Created Headers : Location (string) : URI of created StorageView.	StorageView
204	Created Headers : Location (string) : URI of created StorageView.	No Content

Example HTTP response

Response 201

```
{
  "operational_status" : "operational_status",
  "name" : "name",
  "virtual_volumes" : [ {
    "lun" : 6,
    "vpd_id" : "vpd_id",
    "uri" : "uri",
    "capacity" : 0
  }, {
    "lun" : 6,
    "vpd_id" : "vpd_id",
    "uri" : "uri",
    "capacity" : 0
  } ],
  "initiators" : [ "initiators", "initiators" ],
  "ports" : [ "ports", "ports" ]
}
```

3.13.11. Returns a list of StorageView objects

```
GET /clusters/{cluster_name}/exports/storage_views
```

Parameters

Type	Name	Description	Schema
Path	cluster_name <i>required</i>	The name of the cluster	string
Query	fields <i>optional</i>	Select which fields are included in the response. 'name' is always included. See FieldSelectionExpression for details.	string (FieldSelectionExpression)
Query	limit <i>optional</i>	<p>Maximum number of elements to include in paginated results. 'offset' must also be specified.</p>	integer (int32)
Query	name <i>optional</i>	Filter results by name. See LexicalQueryExpression for details.	string (LexicalQueryExpression)
Query	offset <i>optional</i>	Index of the first element to include in paginated results. 'limit' must also be specified.</p>	integer (int32)
Query	operational_status <i>optional</i>	Filter results by operational_status. See LexicalQueryExpression for details.	string (LexicalQueryExpression)
Query	sort_by <i>optional</i>	Specify the field priority order and direction for sorting. See SortingOrderExpression for details.	string (SortingOrderExpression)

Responses

HTTP Code	Description	Schema
200	A list of StorageView objects	< StorageView > array

3.13.12. Returns a single StorageView

```
GET /clusters/{cluster_name}/exports/storage_views/{name}
```

Parameters

Type	Name	Description	Schema
Path	cluster_name <i>required</i>	The name of the cluster	string

Type	Name	Description	Schema
Path	name <i>required</i>	The name of a specific instance of the resource	string

Responses

HTTP Code	Description	Schema
200	A single StorageView	StorageView

Example HTTP response

Response 200

```
{
  "operational_status" : "operational_status",
  "name" : "name",
  "virtual_volumes" : [ {
    "lun" : 6,
    "vpd_id" : "vpd_id",
    "uri" : "uri",
    "capacity" : 0
  }, {
    "lun" : 6,
    "vpd_id" : "vpd_id",
    "uri" : "uri",
    "capacity" : 0
  } ],
  "initiators" : [ "initiators", "initiators" ],
  "ports" : [ "ports", "ports" ]
}
```

3.13.13. Deletes a single StorageView

```
DELETE /clusters/{cluster_name}/exports/storage_views/{name}
```

Parameters

Type	Name	Description	Schema
Path	cluster_name <i>required</i>	The name of the cluster	string
Path	name <i>required</i>		string

Responses

HTTP Code	Description	Schema
204	Deleted	No Content

3.13.14. Update attributes on a StorageView

```
PATCH /clusters/{cluster_name}/exports/storage_views/{name}
```

Description

Settable attributes: 'name', 'initiators'(add/remove), 'virtual_volumes'(add/remove), 'ports'(add/remove)

Parameters

Type	Name	Description	Schema
Header	allow_multi_fail <i>optional</i>		boolean
Path	cluster_name <i>required</i>	The name of the cluster	string
Path	name <i>required</i>	The name of a specific instance of the resource	string
Body	storage_view_patch_payload <i>required</i>		< JsonPatchOp > array

Responses

HTTP Code	Description	Schema
200	The updated StorageView	StorageView

Example HTTP response

Response 200

```

{
  "operational_status" : "operational_status",
  "name" : "name",
  "virtual_volumes" : [ {
    "lun" : 6,
    "vpd_id" : "vpd_id",
    "uri" : "uri",
    "capacity" : 0
  }, {
    "lun" : 6,
    "vpd_id" : "vpd_id",
    "uri" : "uri",
    "capacity" : 0
  } ],
  "initiators" : [ "initiators", "initiators" ],
  "ports" : [ "ports", "ports" ]
}

```

3.14. Extent

3.14.1. Create a new Extent

```
POST /clusters/{cluster_name}/extents
```

Parameters

Type	Name	Description	Schema
Header	X-Include-Object <i>optional</i>	When passed as part of a POST request, controls whether the representation of the newly created object is included in the response. Defaults to 'true' which will include the object in the response. This header is useful because refreshing the newly created object is usually the slowest part of a POST operation.	string
Path	cluster_name <i>required</i>	The name of the cluster	string
Body	extent_payload <i>required</i>		extent_payload

Responses

HTTP Code	Description	Schema
201	Created Headers : Location (string) : URI of created Extent.	Extent
204	Created Headers : Location (string) : URI of created Extent.	No Content

Example HTTP response

Response 201

```
{
  "application-consistent" : false,
  "block-count" : 38656,
  "block-offset" : 0,
  "block-size" : "4K",
  "capacity" : "151M",
  "health-indications" : [ ],
  "health-state" : "ok",
  "io-status" : "alive",
  "itls" : [ "0x500014426012c510/0x5006016447e002c5/0x01a7",
"0x500014426012c510/0x5006016547e002c5/0x01a7",
"0x500014426012c511/0x5006016447e002c5/0x01a7",
"0x500014426012c511/0x5006016547e002c5/0x01a7" ],
  "locality" : "test_local",
  "operational-status" : "ok",
  "storage-array-family" : "xtremio",
  "storage-volume" : "VPD83T3:514f0c5e61803e72",
  "storage-volumetype" : "normal",
  "system-id" : "SLICE:e025d86e8d44bdb0",
  "thin-capable" : true,
  "underlying-storage-block-size" : 512,
  "use" : "used",
  "used-by" : [ "device_thin_attri_20180818154928680985_c1" ],
  "vendor-specific-name" : "XtremIO"
}
```

3.14.2. Returns a list of Extent objects

```
GET /clusters/{cluster_name}/extents
```

Parameters

Type	Name	Description	Schema
Path	cluster_name <i>required</i>	The name of the cluster	string
Query	capacity <i>optional</i>	Filter results by capacity. See NumericQueryExpression for details.	string (NumericQueryExpression)
Query	fields <i>optional</i>	Select which fields are included in the response. 'name' is always included. See FieldSelectionExpression for details.	string (FieldSelectionExpression)
Query	limit <i>optional</i>	<p>Maximum number of elements to include in paginated results. 'offset' must also be specified.</p>	integer (int32)
Query	name <i>optional</i>	Filter results by name. See LexicalQueryExpression for details.	string (LexicalQueryExpression)
Query	offset <i>optional</i>	Index of the first element to include in paginated results. 'limit' must also be specified.</p>	integer (int32)
Query	sort_by <i>optional</i>	Specify the field priority order and direction for sorting. See SortingOrderExpression for details.	string (SortingOrderExpression)
Query	use <i>optional</i>	Filter results by use. See LexicalQueryExpression for details.	string (LexicalQueryExpression)

Responses

HTTP Code	Description	Schema
200	A list of Extent objects Headers : X-Total-Count (integer) : The total number of entities in the result set after filtering.	< Extent > array

3.14.3. Returns a single Extent object

```
GET /clusters/{cluster_name}/extents/{name}
```

Parameters

Type	Name	Description	Schema
Path	cluster_name <i>required</i>	The name of the cluster	string
Path	name <i>required</i>	The name of a specific instance of the resource	string

Type	Name	Description	Schema
Query	fields <i>optional</i>	Select which fields are included in the response. 'name' is always included. See FieldSelectionExpression for details.	string (FieldSelectionExpression)

Responses

HTTP Code	Description	Schema
200	A single Extent object	Extent

Example HTTP response

Response 200

```
{
  "application-consistent" : false,
  "block-count" : 38656,
  "block-offset" : 0,
  "block-size" : "4K",
  "capacity" : "151M",
  "health-indications" : [ ],
  "health-state" : "ok",
  "io-status" : "alive",
  "itls" : [ "0x500014426012c510/0x5006016447e002c5/0x01a7",
"0x500014426012c510/0x5006016547e002c5/0x01a7",
"0x500014426012c511/0x5006016447e002c5/0x01a7",
"0x500014426012c511/0x5006016547e002c5/0x01a7" ],
  "locality" : "test_local",
  "operational-status" : "ok",
  "storage-array-family" : "xtremio",
  "storage-volume" : "VPD83T3:514f0c5e61803e72",
  "storage-volumetype" : "normal",
  "system-id" : "SLICE:e025d86e8d44bdb0",
  "thin-capable" : true,
  "underlying-storage-block-size" : 512,
  "use" : "used",
  "used-by" : [ "device_thin_attri_20180818154928680985_c1" ],
  "vendor-specific-name" : "XtremIO"
}
```

3.14.4. Deletes a single Extent object

```
DELETE /clusters/{cluster_name}/extents/{name}
```

Parameters

Type	Name	Description	Schema
Path	cluster_name <i>required</i>	The name of the cluster	string
Path	name <i>required</i>	The name of a specific instance of the resource	string

Responses

HTTP Code	Description	Schema
204	Deleted	No Content

3.14.5. Update attributes on a Extent

```
PATCH /clusters/{cluster_name}/extents/{name}
```

Description

Settable attributes: 'name'

Parameters

Type	Name	Description	Schema
Path	cluster_name <i>required</i>	The name of the cluster	string
Path	name <i>required</i>	The name of a specific instance of the resource	string
Body	extent_patch_payload <i>required</i>		< JsonPatchOp > array

Responses

HTTP Code	Description	Schema
200	The updated Extent	Extent

Example HTTP response

Response 200

```

{
  "application-consistent" : false,
  "block-count" : 38656,
  "block-offset" : 0,
  "block-size" : "4K",
  "capacity" : "151M",
  "health-indications" : [ ],
  "health-state" : "ok",
  "io-status" : "alive",
  "itls" : [ "0x500014426012c510/0x5006016447e002c5/0x01a7",
"0x500014426012c510/0x5006016547e002c5/0x01a7",
"0x500014426012c511/0x5006016447e002c5/0x01a7",
"0x500014426012c511/0x5006016547e002c5/0x01a7" ],
  "locality" : "test_local",
  "operational-status" : "ok",
  "storage-array-family" : "xtremio",
  "storage-volume" : "VPD83T3:514f0c5e61803e72",
  "storage-volumetype" : "normal",
  "system-id" : "SLICE:e025d86e8d44bdb0",
  "thin-capable" : true,
  "underlying-storage-block-size" : 512,
  "use" : "used",
  "used-by" : [ "device_thin_attri_20180818154928680985_c1" ],
  "vendor-specific-name" : "XtremIO"
}

```

3.15. Hardware_ports

3.15.1. Returns a list of hardware ports

GET /hardware/ports

Parameters

Type	Name	Description	Schema
Query	director <i>optional</i>	Filter results by director. See LexicalQueryExpression for details.	string (LexicalQueryExpression)
Query	fields <i>optional</i>	Select which fields are included in the response. 'name' is always included. See FieldSelectionExpression for details.	string (FieldSelectionExpression)
Query	limit <i>optional</i>	<p>Maximum number of elements to include in paginated results. 'offset' must also be specified.	integer (int32)

Type	Name	Description	Schema
Query	name <i>optional</i>	Filter results by name. See LexicalQueryExpression for details.	string (LexicalQueryExpression)
Query	offset <i>optional</i>	Index of the first element to include in paginated results. 'limit' must also be specified.	integer (int32)
Query	role <i>optional</i>	Filter results by role. See LexicalQueryExpression for details.	string (LexicalQueryExpression)
Query	sort_by <i>optional</i>	Specify the field priority order and direction for sorting. See SortingOrderExpression for details.	string (SortingOrderExpression)
Query	status <i>optional</i>	Filter results by status. See LexicalQueryExpression for details.	string (LexicalQueryExpression)

Responses

HTTP Code	Description	Schema
200	A JSON array of hardware ports Headers : X-Total-Count (integer) : The total number of entities in the result set after filtering.	HardwarePorts
500	Failed to get hardware ports	Error

3.16. Health

3.16.1. Return local-COM health information

```
GET /clusters/{cluster_name}/health/local_com
```

Parameters

Type	Name	Description	Schema
Path	cluster_name <i>required</i>	The name of the cluster	string

Responses

HTTP Code	Description	Schema
200	The local-COM health object	LocalComHealth

HTTP Code	Description	Schema
500	When health information cannot be obtained	Error

Example HTTP response

Response 200

```
{
  "status" : "full,",
  "details" : [ "ip-port-group-0 - OK - All expected connectivity is present.", "ip-
port-group-1 - OK - All expected connectivity is present." ]
}
```

3.16.2. Return WAN-COM health information

```
GET /health/wan_com
```

Responses

HTTP Code	Description	Schema
200	The WAN-COM health object	WanComHealth
500	When health information cannot be obtained	Error

Example HTTP response

Response 200

```
{
  "status" : "full,",
  "details" : [ "ip-port-group-0 - OK - All expected connectivity is present.", "ip-
port-group-1 - OK - All expected connectivity is present." ]
}
```

3.17. Jobs

3.17.1. Create a VIAS provisioning job

```
POST /jobs
```

Parameters

Type	Name	Schema
Body	vias_payload <i>required</i>	vias_payload

Responses

HTTP Code	Description	Schema
201	VIAS provisioning job created Headers : Location (string) : The uri of the created job.	ViasJob

Example HTTP response

Response 201

```
{
  "base_name" : "base_name",
  "last_updated" : "last_updated",
  "number_of_volumes" : 6,
  "storage_pools" : [ {
    "array" : "array",
    "pool" : "pool",
    "group" : "group"
  }, {
    "array" : "array",
    "pool" : "pool",
    "group" : "group"
  } ],
  "date_created" : "date_created",
  "target_cluster" : "target_cluster",
  "description" : "description",
  "storage_views" : [ "storage_views", "storage_views" ],
  "capacity" : 0,
  "thin" : true,
  "consistency_group" : "consistency_group",
  "name" : "name",
  "status_details" : "status_details",
  "status" : "status"
}
```

3.17.2. Get all the current VIAS provisioning jobs

```
GET /jobs
```

Parameters

Type	Name	Description	Schema
Query	fields <i>optional</i>	Select which fields are included in the response. 'name' is always included. See FieldSelectionExpression for details.	string (FieldSelectionExpression)
Query	limit <i>optional</i>	<p>Maximum number of elements to include in paginated results. 'offset' must also be specified.</p>	integer (int32)
Query	name <i>optional</i>	Filter results by name. See LexicalQueryExpression for details.	string (LexicalQueryExpression)
Query	offset <i>optional</i>	Index of the first element to include in paginated results. 'limit' must also be specified.</p>	integer (int32)
Query	sort_by <i>optional</i>	Specify the field priority order and direction for sorting. See SortingOrderExpression for details.	string (SortingOrderExpression)
Query	status <i>optional</i>	Filter results by status. See LexicalQueryExpression for details.	string (LexicalQueryExpression)

Responses

HTTP Code	Description	Schema
200	A JSON array of VIAS jobs Headers : X-Total-Count (integer) : The total number of entities in the result set after filtering.	< ViasJob > array

3.17.3. Get the status of a VIAS provisioning job

```
GET /jobs/{name}
```

Parameters

Type	Name	Description	Schema
Path	name <i>required</i>	The name of a specific instance of the resource	string
Query	fields <i>optional</i>	Select which fields are included in the response. 'name' is always included. See FieldSelectionExpression for details.	string (FieldSelectionExpression)

Responses

HTTP Code	Description	Schema
200	The current status information of the job.	ViasJob

Example HTTP response

Response 200

```
{
  "base_name" : "base_name",
  "last_updated" : "last_updated",
  "number_of_volumes" : 6,
  "storage_pools" : [ {
    "array" : "array",
    "pool" : "pool",
    "group" : "group"
  }, {
    "array" : "array",
    "pool" : "pool",
    "group" : "group"
  } ],
  "date_created" : "date_created",
  "target_cluster" : "target_cluster",
  "description" : "description",
  "storage_views" : [ "storage_views", "storage_views" ],
  "capacity" : 0,
  "thin" : true,
  "consistency_group" : "consistency_group",
  "name" : "name",
  "status_details" : "status_details",
  "status" : "status"
}
```

3.17.4. Delete a VIAS provisioning jobs

```
DELETE /jobs/{name}
```

Parameters

Type	Name	Description	Schema
Path	name <i>required</i>	The name of a specific instance of the resource	string

Responses

HTTP Code	Description	Schema
204	Successfully deleted.	No Content

3.17.5. Cancel a vias provisioning job

```
POST /jobs/{name}/cancel
```

Parameters

Type	Name	Description	Schema
Path	name <i>required</i>	The name of a specific instance of the resource	string

Responses

HTTP Code	Description	Schema
200	VIAS job was cancelled successfully, return updated ViasJob	ViasJob

Example HTTP response

Response 200

```

{
  "base_name" : "base_name",
  "last_updated" : "last_updated",
  "number_of_volumes" : 6,
  "storage_pools" : [ {
    "array" : "array",
    "pool" : "pool",
    "group" : "group"
  }, {
    "array" : "array",
    "pool" : "pool",
    "group" : "group"
  } ],
  "date_created" : "date_created",
  "target_cluster" : "target_cluster",
  "description" : "description",
  "storage_views" : [ "storage_views", "storage_views" ],
  "capacity" : 0,
  "thin" : true,
  "consistency_group" : "consistency_group",
  "name" : "name",
  "status_details" : "status_details",
  "status" : "status"
}

```

3.17.6. Resubmit a vias provisioning job

POST /jobs/{name}/resubmit

Parameters

Type	Name	Description	Schema
Path	name <i>required</i>	The name of a specific instance of the resource	string

Responses

HTTP Code	Description	Schema
200	VIAS job was resubmitted successfully, return updated ViasJob	ViasJob

Example HTTP response

Response 200

```

{
  "base_name" : "base_name",
  "last_updated" : "last_updated",
  "number_of_volumes" : 6,
  "storage_pools" : [ {
    "array" : "array",
    "pool" : "pool",
    "group" : "group"
  }, {
    "array" : "array",
    "pool" : "pool",
    "group" : "group"
  } ],
  "date_created" : "date_created",
  "target_cluster" : "target_cluster",
  "description" : "description",
  "storage_views" : [ "storage_views", "storage_views" ],
  "capacity" : 0,
  "thin" : true,
  "consistency_group" : "consistency_group",
  "name" : "name",
  "status_details" : "status_details",
  "status" : "status"
}

```

3.18. Licenses

3.18.1. Install a new license file

```
POST /clusters/{cluster_name}/licenses
```

Parameters

Type	Name	Description	Schema
Path	cluster_name <i>required</i>	The name of the cluster	string
Query	validate <i>optional</i>		boolean
Body	license_payload <i>required</i>		license_payload

Responses

HTTP Code	Description	Schema
201	Created	No Content
500	Invalid license file	Error

Consumes

- `application/json`

3.18.2. Returns a list of installed licenses on the setup

```
GET /clusters/{cluster_name}/licenses
```

Parameters

Type	Name	Description	Schema
Path	cluster_name <i>required</i>	The name of the cluster	string
Query	fields <i>optional</i>	Select which fields are included in the response. 'name' is always included. See FieldSelectionExpression for details.	string (FieldSelectionExpression)
Query	limit <i>optional</i>	<p>Maximum number of elements to include in paginated results. 'offset' must also be specified.	integer (int32)
Query	offset <i>optional</i>	Index of the first element to include in paginated results. 'limit' must also be specified.	integer (int32)
Query	sort_by <i>optional</i>	Specify the field priority order and direction for sorting. See SortingOrderExpression for details.	string (SortingOrderExpression)

Responses

HTTP Code	Description	Schema
200	A JSON array of licenses Headers : X-Total-Count (integer) : The total number of entities in the result set after filtering.	LicenseArray
500	License file could not be retrieved from lockbox	Error

3.18.3. Deletes the licenses

```
DELETE /clusters/{cluster_name}/licenses
```


Parameters

Type	Name	Description	Schema
Path	cluster_name <i>required</i>	The name of the cluster	string

Responses

HTTP Code	Description	Schema
202	Deletion of license completed	No Content
404	The specified resource was not found	Error

3.18.4. Validate a license file

```
POST /clusters/{cluster_name}/licenses/validate
```

Parameters

Type	Name	Description	Schema
Path	cluster_name <i>required</i>	The name of the cluster	string
Body	validate_payload <i>required</i>		validate_payload

Responses

HTTP Code	Description	Schema
200	The validation was successful, return license features.	No Content
500	Invalid license file.	No Content

3.19. Logger

3.19.1. Log information on the server. This endpoint is intended for internal system use only.

```
POST /logger/
```

Parameters

Type	Name	Schema
Body	request <i>required</i>	< string, object > map

Responses

HTTP Code	Description	Schema
204	The information was successfully logged	No Content
400	The request format is not recognized by the server. Currently, only JSNLog requests are supported.	No Content

3.20. Logging_volume

3.20.1. Returns a list of LoggingVolume objects. Supports paging

```
GET /clusters/{cluster_name}/logging_volumes
```

Parameters

Type	Name	Description	Schema
Path	cluster_name <i>required</i>	The name of the cluster	string
Query	fields <i>optional</i>	Select which fields are included in the response. 'name' is always included. See FieldSelectionExpression for details.	string (FieldSelectionExpression)
Query	health_state <i>optional</i>	Filter results by health_state. See LexicalQueryExpression for details.	string (LexicalQueryExpression)
Query	limit <i>optional</i>	<p>Maximum number of elements to include in paginated results. 'offset' must also be specified.</p>	integer (int32)
Query	name <i>optional</i>	Filter results by name. See LexicalQueryExpression for details.	string (LexicalQueryExpression)
Query	offset <i>optional</i>	Index of the first element to include in paginated results. 'limit' must also be specified.</p>	integer (int32)
Query	operational_status <i>optional</i>	Filter results by operational_status. See LexicalQueryExpression for details.	string (LexicalQueryExpression)
Query	sort_by <i>optional</i>	Specify the field priority order and direction for sorting. See SortingOrderExpression for details.	string (SortingOrderExpression)

Responses

HTTP Code	Description	Schema
200	A list of LoggingVolume objects Headers : X-Total-Count (integer) : The total number of entities in the result set after filtering.	< LoggingVolume > array

3.20.2. Returns a single LoggingVolume by name

```
GET /clusters/{cluster_name}/logging_volumes/{name}
```

Parameters

Type	Name	Description	Schema
Path	cluster_name <i>required</i>	The name of the cluster	string
Path	name <i>required</i>	The name of a specific instance of the resource	string
Query	fields <i>optional</i>	Select which fields are included in the response. 'name' is always included. See FieldSelectionExpression for details.	string (FieldSelectionExpression)

Responses

HTTP Code	Description	Schema
200	A single LoggingVolume	LoggingVolume

Example HTTP response

Response 200

```
{
  "application_consistent" : false,
  "block_count" : 5242880,
  "block_size" : 4096,
  "capacity" : 21474574336,
  "health_indications" : [ ],
  "health_state" : "ok",
  "name" : "logging_c1",
  "operational_status" : "ok",
  "storage_array_family" : "unknown",
  "system_id" : "logging_c1"
}
```

3.21. Logical_units

3.21.1. Returns a list of LogicalUnits

```
GET /clusters/{cluster_name}/storage_arrays/{storagearray_name}/logical_units
```

Parameters

Type	Name	Description	Schema
Path	cluster_name <i>required</i>	The name of the cluster	string
Path	storagearray_name <i>required</i>	The name of the storage array	string
Query	fields <i>optional</i>	Select which fields are included in the response. 'name' is always included. See FieldSelectionExpression for details.	string (FieldSelectionExpression)
Query	limit <i>optional</i>	<p>Maximum number of elements to include in paginated results. 'offset' must also be specified.</p>	integer (int32)
Query	name <i>optional</i>	Filter results by name. See LexicalQueryExpression for details.	string (LexicalQueryExpression)
Query	offset <i>optional</i>	Index of the first element to include in paginated results. 'limit' must also be specified.</p>	integer (int32)
Query	sort_by <i>optional</i>	Specify the field priority order and direction for sorting. See SortingOrderExpression for details.	string (SortingOrderExpression)
Query	storage_volume <i>optional</i>	Filter results by storage_volume. See LexicalQueryExpression for details.	string (LexicalQueryExpression)

Responses

HTTP Code	Description	Schema
200	A JSON array of logical units Headers : X-Total-Count (integer) : The total number of entities in the result set after filtering.	< LogicalUnit > array

3.21.2. Forgets logicalUnits in an array

```
DELETE /clusters/{cluster_name}/storage_arrays/{storagearray_name}/logical_units
```

Parameters

Type	Name	Description	Schema
Path	cluster_name <i>required</i>	The name of the cluster	string
Path	storagearray_name <i>required</i>	The name of the storage array	string

Responses

HTTP Code	Description	Schema
204	LogicalUnits are forgotten	No Content

3.21.3. Returns a single LogicalUnit by name

```
GET /clusters/{cluster_name}/storage_arrays/{storagearray_name}/logical_units/{name}
```

Parameters

Type	Name	Description	Schema
Path	cluster_name <i>required</i>	The name of the cluster	string
Path	name <i>required</i>	The name of a specific instance of the resource	string
Path	storagearray_name <i>required</i>	The name of the storage array	string
Query	fields <i>optional</i>	Select which fields are included in the response. 'name' is always included. See FieldSelectionExpression for details.	string (FieldSelectionExpression)

Responses

HTTP Code	Description	Schema
200	A single LogicalUnit	LogicalUnit

Example HTTP response

Response 200

```
{
  "storage_volume" : "storage_volume",
  "connectivity_status" : { },
  "visibility" : "active",
  "name" : "name",
  "active_aao_controller" : [ "active_aao_controller", "active_aao_controller" ],
  "passive_aan_controller" : [ "passive_aan_controller", "passive_aan_controller" ],
  "passive_aan_visibility" : [ "passive_aan_visibility", "passive_aan_visibility" ],
  "luns" : [ "luns", "luns" ],
  "alua_support" : "implicit",
  "active_aao_visibility" : [ "active_aao_visibility", "active_aao_visibility" ]
}
```

3.22. Maps

3.22.1. Get the parents and children for the passed element

GET /map

Parameters

Type	Name	Schema
Query	uri <i>required</i>	string

Responses

HTTP Code	Description	Schema
200	A description of the parents and children of the given element. To get the complete hierarchy, make subsequent requests for the parent and children elements. This ensures that large volumes of unwanted data aren't fetched from the server, for example when viewing a large storage view, we don't want to get the complete hierarchy of every virtual volume in that view.	StorageMap

Example HTTP response

Response 200

```
{
  "uri" : "/vplex/v2/clusters/cluster-1/devices/device_0",
  "parents" : [ "/vplex/v2/clusters/cluster-1/virtual_volumes/virtual_volume_0" ],
  "children" : [ "/vplex/v2/clusters/cluster-1/extents/extent_00",
"/vplex/v2/clusters/cluster-1/extents/extent_01" ]
}
```

3.23. Meta_volume

3.23.1. Returns a list of MetaVolume objects. Supports paging

```
GET /clusters/{cluster_name}/meta_volumes
```

Parameters

Type	Name	Description	Schema
Path	cluster_name <i>required</i>	The name of the cluster	string
Query	fields <i>optional</i>	Select which fields are included in the response. 'name' is always included. See FieldSelectionExpression for details.	string (FieldSelectionExpression)
Query	health_state <i>optional</i>	Filter results by health_state. See LexicalQueryExpression for details.	string (LexicalQueryExpression)
Query	limit <i>optional</i>	<p>Maximum number of elements to include in paginated results. 'offset' must also be specified.</p>	integer (int32)
Query	name <i>optional</i>	Filter results by name. See LexicalQueryExpression for details.	string (LexicalQueryExpression)
Query	offset <i>optional</i>	Index of the first element to include in paginated results. 'limit' must also be specified.</p>	integer (int32)
Query	operational_status <i>optional</i>	Filter results by operational_status. See LexicalQueryExpression for details.	string (LexicalQueryExpression)
Query	sort_by <i>optional</i>	Specify the field priority order and direction for sorting. See SortingOrderExpression for details.	string (SortingOrderExpression)

Responses

HTTP Code	Description	Schema
200	A list of MetaVolume objects Headers : X-Total-Count (integer) : The total number of entities in the result set after filtering.	< MetaVolume > array

3.23.2. Returns a single MetaVolume by name

```
GET /clusters/{cluster_name}/meta_volumes/{name}
```

Parameters

Type	Name	Description	Schema
Path	cluster_name <i>required</i>	The name of the cluster	string
Path	name <i>required</i>	The name of a specific instance of the resource	string
Query	fields <i>optional</i>	Select which fields are included in the response. 'name' is always included. See FieldSelectionExpression for details.	string (FieldSelectionExpression)

Responses

HTTP Code	Description	Schema
200	A single MetaVolume	MetaVolume

Example HTTP response

Response 200

```
{
  "active" : true,
  "application_consistent" : false,
  "block_count" : 20971264,
  "block_size" : 4096,
  "capacity" : 85898297344,
  "health_indications" : [ ],
  "health_state" : "ok",
  "name" : "meta_c1",
  "operational_status" : "ok",
  "storage_array_family" : "unknown",
  "system_id" : "meta_c1"
}
```


3.24. Monitors

3.24.1. Return the list of names of active performance monitors

```
GET /clusters/{cluster_name}/system_monitors
```

Parameters

Type	Name	Description	Schema
Path	cluster_name <i>required</i>	The name of the cluster	string
Query	fields <i>optional</i>	Select which fields are included in the response. 'name' is always included. See FieldSelectionExpression for details.	string (FieldSelectionExpression)
Query	limit <i>optional</i>	<p>Maximum number of elements to include in paginated results. 'offset' must also be specified.</p>	integer (int32)
Query	offset <i>optional</i>	Index of the first element to include in paginated results. 'limit' must also be specified.</p>	integer (int32)
Query	sort_by <i>optional</i>	Specify the field priority order and direction for sorting. See SortingOrderExpression for details.	string (SortingOrderExpression)

Responses

HTTP Code	Description	Schema
200	The list of names of all active monitors Headers : X-Total-Count (integer) : The total number of entities in the result set after filtering.	< string > array

Example HTTP response

Response 200

```
[ "director-1-1-A_PERPETUAL_vplex_sys_perf_mon_v31", "director-1-1-B_PERPETUAL_vplex_sys_perf_mon_v31" ]
```

3.24.2. Return performance stats for the given perf monitor.

```
GET /clusters/{cluster_name}/system_monitors/{name}
```

Parameters

Type	Name	Description	Schema
Path	cluster_name <i>required</i>	The name of the cluster	string
Path	name <i>required</i>	The name of a specific instance of the resource	string
Query	fields <i>optional</i>	Select which fields are included in the response. 'name' is always included. See FieldSelectionExpression for details.	string (FieldSelectionExpression)

Responses

HTTP Code	Description	Schema
200	The stats for the given monitor	Monitors

Example HTTP response

Response 200

```
{
  "average_period" : 6.027456183070403,
  "bucket_min" : 5.962133916683182,
  "period" : 0.8008281904610115,
  "firmware_id" : 9.301444243932576,
  "collecting_data" : true,
  "targets" : [ "targets", "targets" ],
  "version" : "version",
  "idle_for" : 1.4658129805029452,
  "bucket_count" : 7.061401241503109,
  "bucket_max" : 5.637376656633329,
  "ownership" : true,
  "name" : "name",
  "bucket_width" : 2.3021358869347655,
  "statistics" : "{}",
  "timestamp" : "timestamp"
}
```

3.24.3. Return the list of names of active vvol monitors

```
GET /clusters/{cluster_name}/vvol_monitors
```

Parameters

Type	Name	Description	Schema
Path	cluster_name <i>required</i>	The name of the cluster	string

Responses

HTTP Code	Description	Schema
200	The list of names of all active vvol monitors	< string > array

Example HTTP response

Response 200

```
[ "director-1-1-A_VIRTUAL_VOLUMES_PERPETUAL_MONITOR", "director-1-1-B_VIRTUAL_VOLUMES_PERPETUAL_MONITOR" ]
```

3.24.4. Return performance stats for the given vvol monitor.

```
GET /clusters/{cluster_name}/vvol_monitors/{name}
```

Parameters

Type	Name	Description	Schema
Path	cluster_name <i>required</i>	The name of the cluster	string
Path	name <i>required</i>	The name of a specific instance of the resource	string

Responses

HTTP Code	Description	Schema
200	The stats for the given vvol monitor	Monitors

Example HTTP response

Response 200

```

{
  "average_period" : 6.027456183070403,
  "bucket_min" : 5.962133916683182,
  "period" : 0.8008281904610115,
  "firmware_id" : 9.301444243932576,
  "collecting_data" : true,
  "targets" : [ "targets", "targets" ],
  "version" : "version",
  "idle_for" : 1.4658129805029452,
  "bucket_count" : 7.061401241503109,
  "bucket_max" : 5.637376656633329,
  "ownership" : true,
  "name" : "name",
  "bucket_width" : 2.3021358869347655,
  "statistics" : "{}",
  "timestamp" : "timestamp"
}

```

3.25. Permissions

3.25.1. Returns the Role-Based Authentication configuration

GET /permissions/

Parameters

Type	Name	Description	Schema
Query	fields <i>optional</i>	Select which fields are included in the response. 'name' is always included. See FieldSelectionExpression for details.	string (FieldSelectionExpression)
Query	limit <i>optional</i>	<p>Maximum number of elements to include in paginated results. 'offset' must also be specified.</p>	integer (int32)
Query	offset <i>optional</i>	Index of the first element to include in paginated results. 'limit' must also be specified.</p>	integer (int32)
Query	sort_by <i>optional</i>	Specify the field priority order and direction for sorting. See SortingOrderExpression for details.	string (SortingOrderExpression)

Responses

HTTP Code	Description	Schema
200	A JSON array of permission records Headers : X-Total-Count (integer) : The total number of entities in the result set after filtering.	< Permission > array

3.25.2. Return the Role-Based Authentication configuration for one role

```
GET /permissions/{rbac_role}
```

Parameters

Type	Name	Description	Schema
Path	rbac_role <i>required</i>	The name of the role	string
Query	fields <i>optional</i>	Select which fields are included in the response. 'name' is always included. See FieldSelectionExpression for details.	string (FieldSelectionExpression)

Responses

HTTP Code	Description	Schema
200	The Role-Based Authentication configuration for one role	Permission

Example HTTP response

Response 200

```
{
  "/a/path/to/endpoint1" : [ "GET" ],
  "/a/path/to/endpoint2" : [ "PATCH", "POST" ],
  ".*" : [ "GET", "POST", "PATCH", "DELETE" ]
}
```

3.25.3. Modify the Role-Based Authentication configuration for this role

```
PATCH /permissions/{rbac_role}
```

Description

To add/remove a path pattern rule, use an add/remove patch with path "/" and value "/path/pattern". A new path pattern rule is created with all verbs forbidden. To permit/forbid a verb

at an existing path pattern, use an add/remove patch with path `"/path/pattern"` and value `"verb"`.

Parameters

Type	Name	Description	Schema
Path	rbac_role <i>required</i>	The name of the role	string
Body	permission_patch_payload <i>required</i>		< JsonPatchOp > array

Responses

HTTP Code	Description	Schema
200	The updated permissions	Permission

Example HTTP response

Response 200

```
{
  "/a/path/to/endpoint1" : [ "GET" ],
  "/a/path/to/endpoint2" : [ "PATCH", "POST" ],
  ".*" : [ "GET", "POST", "PATCH", "DELETE" ]
}
```

3.26. Recoverpoint

3.26.1. Returns a list of RPACluster objects. Supports paging

```
GET /rpa_clusters/
```

Parameters

Type	Name	Description	Schema
Query	fields <i>optional</i>	Select which fields are included in the response. 'name' is always included. See FieldSelectionExpression for details.	string (FieldSelectionExpression)
Query	limit <i>optional</i>	<p>Maximum number of elements to include in paginated results. 'offset' must also be specified.	integer (int32)
Query	name <i>optional</i>	Filter results by name. See LexicalQueryExpression for details.	string (LexicalQueryExpression)

Type	Name	Description	Schema
Query	offset <i>optional</i>	Index of the first element to include in paginated results. 'limit' must also be specified.	integer (int32)
Query	sort_by <i>optional</i>	Specify the field priority order and direction for sorting. See SortingOrderExpression for details.	string (SortingOrderExpression)

Responses

HTTP Code	Description	Schema
200	A list of RPACluster objects Headers : X-Total-Count (integer) : The total number of entities in the result set after filtering.	< RPACluster > array

3.26.2. Returns a single [RPACluster](#) by name

```
GET /rpa_clusters/{rpa_cluster_name}
```

Parameters

Type	Name	Description	Schema
Path	rpa_cluster_name <i>required</i>	The name of the RPA cluster	string
Query	fields <i>optional</i>	Select which fields are included in the response. 'name' is always included. See FieldSelectionExpression for details.	string (FieldSelectionExpression)

Responses

HTTP Code	Description	Schema
200	A single RPACluster	RPACluster

Example HTTP response

Response 200

```
{
  "name" : "rpa_c1",
  "rp_health_indications" : [ ],
  "rp_health_status" : "ok"
}
```

3.27. Storage_array

3.27.1. Returns a list of StorageArrays

```
GET /clusters/{cluster_name}/storage_arrays
```

Parameters

Type	Name	Description	Schema
Path	cluster_name <i>required</i>	The name of the cluster	string
Query	connectivity_status <i>optional</i>	Filter results by connectivity_status. See LexicalQueryExpression for details.	string (LexicalQueryExpression)
Query	fields <i>optional</i>	Select which fields are included in the response. 'name' is always included. See FieldSelectionExpression for details.	string (FieldSelectionExpression)
Query	limit <i>optional</i>	<p>Maximum number of elements to include in paginated results. 'offset' must also be specified.</p>	integer (int32)
Query	logical_unit_count <i>optional</i>	Filter results by logical_unit_count. See NumericQueryExpression for details.	string (NumericQueryExpression)
Query	name <i>optional</i>	Filter results by name. See LexicalQueryExpression for details.	string (LexicalQueryExpression)
Query	offset <i>optional</i>	Index of the first element to include in paginated results. 'limit' must also be specified.</p>	integer (int32)
Query	sort_by <i>optional</i>	Specify the field priority order and direction for sorting. See SortingOrderExpression for details.	string (SortingOrderExpression)

Responses

HTTP Code	Description	Schema
200	A JSON array of storage arrays Headers : X-Total-Count (integer) : The total number of entities in the result set after filtering.	< StorageArray > array

3.27.2. Returns a single StorageArray by name

```
GET /clusters/{cluster_name}/storage_arrays/{name}
```

Parameters

Type	Name	Description	Schema
Path	cluster_name <i>required</i>	The name of the cluster	string
Path	name <i>required</i>	The name of a specific instance of the resource	string
Query	fields <i>optional</i>	Select which fields are included in the response. 'name' is always included. See FieldSelectionExpression for details.	string (FieldSelectionExpression)

Responses

HTTP Code	Description	Schema
200	A single StorageArray	StorageArray

Example HTTP response

Response 200

```
{
  "name" : "EMC-SYMMETRIX-196801161",
  "controllers" : [ 196801161 ],
  "connectivity_status" : "ok",
  "ports" : [ 5764617914037707864, 5764617914037707868 ],
  "logical_unit_count" : 502
}
```

3.27.3. Get the default name mapping for claimable volumes on this array

```
GET /clusters/{cluster_name}/storage_arrays/{name}/name_mapping
```

Parameters

Type	Name	Description	Schema
Path	cluster_name <i>required</i>	The name of the cluster	string
Path	name <i>required</i>	The name of a specific instance of the resource	string

Responses

HTTP Code	Description	Schema
200	Returns the list of unclaimed storage volumes and their default names	inline_response_200

Example HTTP response

Response 200

```
{
  "claimable_storage_volumes" : [ {
    "storage_volume_name" : "storage_volume_name",
    "storage_volume_path" : "storage_volume_path"
  }, {
    "storage_volume_name" : "storage_volume_name",
    "storage_volume_path" : "storage_volume_path"
  } ],
  "storage_array" : "storage_array",
  "unclaimed_storage_volumes" : 0
}
```

3.27.4. Rediscover LUNs on the array

```
POST /clusters/{cluster_name}/storage_arrays/{name}/rediscover
```

Parameters

Type	Name	Description	Schema
Path	cluster_name <i>required</i>	The name of the cluster	string
Path	name <i>required</i>	The name of a specific instance of the resource	string

Responses

HTTP Code	Description	Schema
200	The array rediscover was successful, return updated StorageArray	StorageArray
204	The array rediscover was successful, no response content	No Content

Example HTTP response

Response 200

```
{
  "name" : "EMC-SYMMETRIX-196801161",
  "controllers" : [ 196801161 ],
  "connectivity_status" : "ok",
  "ports" : [ 5764617914037707864, 5764617914037707868 ],
  "logical_unit_count" : 502
}
```

3.28. Storage_group

3.28.1. Return the list storage groups

```
GET /clusters/{cluster_name}/storage_arrays/{storagearray_name}/storage_groups
```

Parameters

Type	Name	Description	Schema
Path	cluster_name <i>required</i>	The name of the cluster	string
Path	storagearray_name <i>required</i>	The name of the storage array	string
Query	SRP <i>optional</i>	Filter storage groups based on storage pools they belong to. See LexicalQueryExpression for details.	string (LexicalQueryExpression)
Query	fields <i>optional</i>	Select which fields are included in the response. 'name' is always included. See FieldSelectionExpression for details.	string (FieldSelectionExpression)
Query	limit <i>optional</i>	<p>Maximum number of elements to include in paginated results. 'offset' must also be specified.	integer (int32)
Query	name <i>optional</i>	Filter results by name. See LexicalQueryExpression for details.	string (LexicalQueryExpression)

Type	Name	Description	Schema
Query	offset <i>optional</i>	Index of the first element to include in paginated results. 'limit' must also be specified.	integer (int32)
Query	policy <i>optional</i>	Filter storage groups by policy. See LexicalQueryExpression for details.	string (LexicalQueryExpression)
Query	sort_by <i>optional</i>	Specify the field priority order and direction for sorting. See SortingOrderExpression for details.	string (SortingOrderExpression)

Responses

HTTP Code	Description	Schema
200	The list of names of storage groups	< StorageGroup > array
404	When no storage groups are found	Error

3.28.2. Return details of a given storage group

```
GET /clusters/{cluster_name}/storage_arrays/{storagearray_name}/storage_groups/{name}
```

Parameters

Type	Name	Description	Schema
Path	cluster_name <i>required</i>	The name of the cluster	string
Path	name <i>required</i>	The name of a specific instance of the resource	string
Path	storagearray_name <i>required</i>	The name of the storage array	string
Query	fields <i>optional</i>	Select which fields are included in the response. 'name' is always included. See FieldSelectionExpression for details.	string (FieldSelectionExpression)

Responses

HTTP Code	Description	Schema
200	The single storage group	StorageGroup
404	When no storage group is found	Error

Example HTTP response

Response 200

```
{
  "SRP" : "SRP",
  "number_of_volumes" : "number_of_volumes",
  "parent_storage_group" : "parent_storage_group",
  "name" : "name",
  "masking_views" : [ "masking_views", "masking_views" ],
  "policy" : "policy"
}
```

3.29. Storage_pool

3.29.1. Return the list storage pools

```
GET /clusters/{cluster_name}/storage_arrays/{storagearray_name}/storage_pools
```

Parameters

Type	Name	Description	Schema
Path	cluster_name <i>required</i>	The name of the cluster	string
Path	storagearray_name <i>required</i>	The name of the storage array	string
Query	fields <i>optional</i>	Select which fields are included in the response. 'name' is always included. See FieldSelectionExpression for details.	string (FieldSelectionExpression)
Query	limit <i>optional</i>	<p>Maximum number of elements to include in paginated results. 'offset' must also be specified.</p>	integer (int32)
Query	name <i>optional</i>	Filter results by name. See LexicalQueryExpression for details.	string (LexicalQueryExpression)
Query	offset <i>optional</i>	Index of the first element to include in paginated results. 'limit' must also be specified.</p>	integer (int32)
Query	policies <i>optional</i>	Filter storage pools by policies. See LexicalQueryExpression for details.	string (LexicalQueryExpression)
Query	sort_by <i>optional</i>	Specify the field priority order and direction for sorting. See SortingOrderExpression for details.	string (SortingOrderExpression)

Responses

HTTP Code	Description	Schema
200	The list of names of storage pools	< StoragePool > array
404	When no storage pools are found	Error

3.29.2. Return details of a given storage pool

```
GET /clusters/{cluster_name}/storage_arrays/{storagearray_name}/storage_pools/{name}
```

Parameters

Type	Name	Description	Schema
Path	cluster_name <i>required</i>	The name of the cluster	string
Path	name <i>required</i>	The name of a specific instance of the resource	string
Path	storagearray_name <i>required</i>	The name of the storage array	string
Query	fields <i>optional</i>	Select which fields are included in the response. 'name' is always included. See FieldSelectionExpression for details.	string (FieldSelectionExpression)

Responses

HTTP Code	Description	Schema
200	Name of the storage pool to fetch	StoragePool
404	When no storage pools is found	Error

Example HTTP response

Response 200

```
{
  "total_free_space" : 0.8008281904610115,
  "total_used_space" : 6.027456183070403,
  "name" : "name",
  "total_space" : 1.4658129805029452,
  "policies" : "policies",
  "pool_types" : "pool_types",
  "last_refreshed" : "last_refreshed"
}
```

3.30. Storage_volume

3.30.1. Returns a list of StorageVolume objects. Supports paging

```
GET /clusters/{cluster_name}/storage_volumes
```

Parameters

Type	Name	Description	Schema
Path	cluster_name <i>required</i>	The name of the cluster	string
Query	capacity <i>optional</i>	Filter results by capacity. See NumericQueryExpression for details.	string (NumericQueryExpression)
Query	fields <i>optional</i>	Select which fields are included in the response. 'name' is always included. See FieldSelectionExpression for details.	string (FieldSelectionExpression)
Query	health_state <i>optional</i>	Filter results by health_state. See LexicalQueryExpression for details.	string (LexicalQueryExpression)
Query	largest_free_chunk <i>optional</i>	Filter results by largest_free_chunk. See NumericQueryExpression for details.	string (NumericQueryExpression)
Query	limit <i>optional</i>	<p>Maximum number of elements to include in paginated results. 'offset' must also be specified.</p>	integer (int32)
Query	name <i>optional</i>	Filter results by name. See LexicalQueryExpression for details.	string (LexicalQueryExpression)
Query	offset <i>optional</i>	Index of the first element to include in paginated results. 'limit' must also be specified.</p>	integer (int32)

Type	Name	Description	Schema
Query	operational_status <i>optional</i>	Filter results by operational_status. See LexicalQueryExpression for details.	string (LexicalQueryExpression)
Query	provision_type <i>optional</i>	Filter results by provision_type. See LexicalQueryExpression for details.	string (LexicalQueryExpression)
Query	sort_by <i>optional</i>	Specify the field priority order and direction for sorting. See SortingOrderExpression for details.	string (SortingOrderExpression)
Query	storage_array_name <i>optional</i>	Filter results by storage_array_name. See LexicalQueryExpression for details.	string (LexicalQueryExpression)
Query	thin_capable <i>optional</i>	Filter results by thin_capable. See LexicalQueryExpression for details.	string (LexicalQueryExpression)
Query	thin_rebuild <i>optional</i>	Filter results by thin_rebuild. See LexicalQueryExpression for details.	string (LexicalQueryExpression)
Query	use <i>optional</i>	Filter results by use. See LexicalQueryExpression for details.	string (LexicalQueryExpression)
Query	vendor_specific_name <i>optional</i>	Filter results by vendor_specific_name. See LexicalQueryExpression for details.	string (LexicalQueryExpression)

Responses

HTTP Code	Description	Schema
200	A list of StorageVolume objects Headers : X-Total-Count (integer) : The total number of entities in the result set after filtering.	< StorageVolume > array

3.30.2. Returns a single StorageVolume by name

```
GET /clusters/{cluster_name}/storage_volumes/{name}
```

Parameters

Type	Name	Description	Schema
Path	cluster_name <i>required</i>	The name of the cluster	string

Type	Name	Description	Schema
Path	name <i>required</i>	The name of a specific instance of the resource	string
Query	fields <i>optional</i>	Select which fields are included in the response. 'name' is always included. See FieldSelectionExpression for details.	string (FieldSelectionExpression)

Responses

HTTP Code	Description	Schema
200	A single StorageVolume	StorageVolume

Example HTTP response

Response 200

```

{
  "name" : "Test_svol",
  "application_consistent" : false,
  "block_count" : 262144,
  "block_size" : 4096,
  "capacity" : 1073741824,
  "health_indications" : [ ],
  "health_state" : "ok",
  "operational_status" : "ok",
  "io_status" : "alive",
  "itls" : [ {
    "initiator" : 5764629798346474768,
    "target" : 5766297903108719301,
    "lun" : 423
  }, {
    "initiator" : 5764629798346474768,
    "target" : 5766297907403686597,
    "lun" : 423
  }, {
    "initiator" : 5764629798346474769,
    "target" : 5766297903108719301,
    "lun" : 423
  }, {
    "initiator" : 5764629798346474769,
    "target" : 5766297907403686597,
    "lun" : 423
  } ],
  "largest_free_chunk" : 1073741824,
  "provision_type" : "legacy",
  "storage_array_family" : "unknown",
  "storage_array_name" : "EMC-CLARiiON-FNM00123456789",
  "storage_volumetype" : "traditional",
  "system_id" : "VPD83T3:600601600aa03d0028e82f5a5b645410",
  "thin_capable" : true,
  "thin_rebuild" : true,
  "use" : "used",
  "used_by" : [ "extent_db1" ],
  "vendor_specific_name" : "EMC"
}

```

3.30.3. Storage volume is not really missing it will reappear after being forgotten

```
DELETE /clusters/{cluster_name}/storage_volumes/{name}
```

Parameters

Type	Name	Description	Schema
Path	cluster_name <i>required</i>	The name of the cluster	string
Path	name <i>required</i>	The name of a specific instance of the resource	string

Responses

HTTP Code	Description	Schema
204	Storage Volume is forgotten	No Content

3.30.4. Update attributes on a StorageVolume

```
PATCH /clusters/{cluster_name}/storage_volumes/{name}
```

Description

Settable attributes: 'name' and 'thin_rebuild'

Parameters

Type	Name	Description	Schema
Path	cluster_name <i>required</i>	The name of the cluster	string
Path	name <i>required</i>	The name of a specific instance of the resource	string
Body	storage_volume_patch_payload <i>required</i>		< JsonPatchOp > array

Responses

HTTP Code	Description	Schema
200	The updated StorageVolume	StorageVolume

Example HTTP response

Response 200

```

{
  "name" : "Test_svol",
  "application_consistent" : false,
  "block_count" : 262144,
  "block_size" : 4096,
  "capacity" : 1073741824,
  "health_indications" : [ ],
  "health_state" : "ok",
  "operational_status" : "ok",
  "io_status" : "alive",
  "itls" : [ {
    "initiator" : 5764629798346474768,
    "target" : 5766297903108719301,
    "lun" : 423
  }, {
    "initiator" : 5764629798346474768,
    "target" : 5766297907403686597,
    "lun" : 423
  }, {
    "initiator" : 5764629798346474769,
    "target" : 5766297903108719301,
    "lun" : 423
  }, {
    "initiator" : 5764629798346474769,
    "target" : 5766297907403686597,
    "lun" : 423
  } ],
  "largest_free_chunk" : 1073741824,
  "provision_type" : "legacy",
  "storage_array_family" : "unknown",
  "storage_array_name" : "EMC-CLARiON-FNM00123456789",
  "storage_volumetype" : "traditional",
  "system_id" : "VPD83T3:600601600aa03d0028e82f5a5b645410",
  "thin_capable" : true,
  "thin_rebuild" : true,
  "use" : "used",
  "used_by" : [ "extent_db1" ],
  "vendor_specific_name" : "EMC"
}

```

3.30.5. Claim a StorageVolume

```
POST /clusters/{cluster_name}/storage_volumes/{name}/claim
```

Parameters

Type	Name	Description	Schema
Path	cluster_name <i>required</i>	The name of the cluster	string
Path	name <i>required</i>	The name of a specific instance of the resource	string
Body	claim_payload <i>required</i>		claim_payload

Responses

HTTP Code	Description	Schema
200	The update was successful, return updated StorageVolume	StorageVolume
204	The update was successful, no response content	No Content

Example HTTP response

Response 200

```

{
  "name" : "Test_svol",
  "application_consistent" : false,
  "block_count" : 262144,
  "block_size" : 4096,
  "capacity" : 1073741824,
  "health_indications" : [ ],
  "health_state" : "ok",
  "operational_status" : "ok",
  "io_status" : "alive",
  "itls" : [ {
    "initiator" : 5764629798346474768,
    "target" : 5766297903108719301,
    "lun" : 423
  }, {
    "initiator" : 5764629798346474768,
    "target" : 5766297907403686597,
    "lun" : 423
  }, {
    "initiator" : 5764629798346474769,
    "target" : 5766297903108719301,
    "lun" : 423
  }, {
    "initiator" : 5764629798346474769,
    "target" : 5766297907403686597,
    "lun" : 423
  } ],
  "largest_free_chunk" : 1073741824,
  "provision_type" : "legacy",
  "storage_array_family" : "unknown",
  "storage_array_name" : "EMC-CLARiON-FNM00123456789",
  "storage_volumetype" : "traditional",
  "system_id" : "VPD83T3:600601600aa03d0028e82f5a5b645410",
  "thin_capable" : true,
  "thin_rebuild" : true,
  "use" : "used",
  "used_by" : [ "extent_db1" ],
  "vendor_specific_name" : "EMC"
}

```

3.30.6. Unclaim a StorageVolume

```
POST /clusters/{cluster_name}/storage_volumes/{name}/unclaim
```

Parameters

Type	Name	Description	Schema
Header	X-Include-Object <i>optional</i>	When passed as part of a POST request, controls whether the representation of the newly created object is included in the response. Defaults to 'true' which will include the object in the response. This header is useful because refreshing the newly created object is usually the slowest part of a POST operation.	string
Path	cluster_name <i>required</i>	The name of the cluster	string
Path	name <i>required</i>	The name of a specific instance of the resource	string
Body	unclaim_payload <i>required</i>		unclaim_payload

Responses

HTTP Code	Description	Schema
200	The update was successful, return updated StorageVolume	StorageVolume
204	The update was successful, no response content Headers : Location (string) : URI of unclaimed Storage Volume.	No Content

Example HTTP response

Response 200

```

{
  "name" : "Test_svol",
  "application_consistent" : false,
  "block_count" : 262144,
  "block_size" : 4096,
  "capacity" : 1073741824,
  "health_indications" : [ ],
  "health_state" : "ok",
  "operational_status" : "ok",
  "io_status" : "alive",
  "itls" : [ {
    "initiator" : 5764629798346474768,
    "target" : 5766297903108719301,
    "lun" : 423
  }, {
    "initiator" : 5764629798346474768,
    "target" : 5766297907403686597,
    "lun" : 423
  }, {
    "initiator" : 5764629798346474769,
    "target" : 5766297903108719301,
    "lun" : 423
  }, {
    "initiator" : 5764629798346474769,
    "target" : 5766297907403686597,
    "lun" : 423
  } ],
  "largest_free_chunk" : 1073741824,
  "provision_type" : "legacy",
  "storage_array_family" : "unknown",
  "storage_array_name" : "EMC-CLARiON-FNM00123456789",
  "storage_volumetype" : "traditional",
  "system_id" : "VPD83T3:600601600aa03d0028e82f5a5b645410",
  "thin_capable" : true,
  "thin_rebuild" : true,
  "use" : "used",
  "used_by" : [ "extent_db1" ],
  "vendor_specific_name" : "EMC"
}

```

3.31. System_config

3.31.1. Return the system configuration

```
GET /system_config
```


Responses

HTTP Code	Description	Schema
200	The configuration object	SystemConfig
500	When configuration cannot be obtained	Error

Example HTTP response

Response 200

```
{
  "platform" : "VS2",
  "product_type" : "metro",
  "wan_type" : "FC",
  "limits" : {
    "storage_volume_size" : 70368744177664
  }
}
```

3.32. Token

3.32.1. URL to authenticate and get back access_token in case of success

POST /token

Parameters

Type	Name	Schema
Header	password <i>required</i>	string (password)
Header	username <i>required</i>	string
Body	token_payload <i>optional</i>	LoginPayload

Responses

HTTP Code	Description	Schema
200	Authenticated	LoginResponse
400	Invalid input	Error
401	User not authorized	Error

Example HTTP request

Request body

```
{
  "expiry" : "expiry"
}
```

Example HTTP response

Response 200

```
{
  "token_type" : "token_type",
  "expires_in" : "expires_in",
  "token" : "token"
}
```

3.32.2. Endpoint to logout and invalidate/delete the token

```
DELETE /token
```

Responses

HTTP Code	Description	Schema
204	User successfully logged out	No Content
401	User not authorized	Error
500	Internal server error	Error

3.33. Version

3.33.1. Returns a list of versions of the VPLEX components

```
GET /versions
```

Parameters

Type	Name	Description	Schema
Query	fields <i>optional</i>	Select which fields are included in the response. 'name' is always included. See FieldSelectionExpression for details.	string (FieldSelectionExpression)

Type	Name	Description	Schema
Query	limit <i>optional</i>	<p>Maximum number of elements to include in paginated results. 'offset' must also be specified.	integer (int32)
Query	offset <i>optional</i>	Index of the first element to include in paginated results. 'limit' must also be specified.	integer (int32)
Query	sort_by <i>optional</i>	Specify the field priority order and direction for sorting. See <code>SortingOrderExpression</code> for details.	string (<code>SortingOrderExpression</code>)

Responses

HTTP Code	Description	Schema
200	A JSON array of versions Headers : X-Total-Count (integer) : The total number of entities in the result set after filtering.	Versions
500	Versions could not be retrieved	Error

3.34. Virtual_volume

3.34.1. Create a new virtual volume

```
POST /clusters/{cluster_name}/virtual_volumes
```

Parameters

Type	Name	Description	Schema
Header	X-Include-Object <i>optional</i>	When passed as part of a POST request, controls whether the representation of the newly created object is included in the response. Defaults to 'true' which will include the object in the response. This header is useful because refreshing the newly created object is usually the slowest part of a POST operation.	string
Path	cluster_name <i>required</i>	The name of the cluster	string
Body	virtual_volume_payload <i>required</i>		virtual_volume_payload

Responses

HTTP Code	Description	Schema
201	Created Headers : Location (string) : URI of created VirtualVolume.	VirtualVolume
204	Created Headers : Location (string) : URI of created VirtualVolume.	No Content

Example HTTP response

Response 201

```
{
  "name" : "TEST_vvol",
  "operational_status" : "ok",
  "health_state" : "ok",
  "service_status" : "running",
  "block_count" : 524288,
  "block_size" : 4096,
  "capacity" : 2147483648,
  "locality" : "local",
  "expandable" : true,
  "vpd_id" : "VPD83T3:6000144000000010016d5f9474ade8e0",
  "thin_enabled" : "disabled",
  "storage_array_family" : "unknown",
  "supporting_device" : "TEST",
  "visibility" : "local"
}
```

3.34.2. Returns a list of virtual volumes

```
GET /clusters/{cluster_name}/virtual_volumes
```

Parameters

Type	Name	Description	Schema
Path	cluster_name <i>required</i>	The name of the cluster	string
Query	capacity <i>optional</i>	Filter results by capacity. See NumericQueryExpression for details.	string (NumericQueryExpression)

Type	Name	Description	Schema
Query	consistency_group <i>optional</i>	Filter results by consistency_group. See LexicalQueryExpression for details.	string (LexicalQueryExpression)
Query	fields <i>optional</i>	Select which fields are included in the response. 'name' is always included. See FieldSelectionExpression for details.	string (FieldSelectionExpression)
Query	health_state <i>optional</i>	Filter results by health_state. See LexicalQueryExpression for details.	string (LexicalQueryExpression)
Query	limit <i>optional</i>	<p>Maximum number of elements to include in paginated results. 'offset' must also be specified.</p>	integer (int32)
Query	name <i>optional</i>	Filter results by name. See LexicalQueryExpression for details.	string (LexicalQueryExpression)
Query	offset <i>optional</i>	Index of the first element to include in paginated results. 'limit' must also be specified.</p>	integer (int32)
Query	operational_status <i>optional</i>	Filter results by operational_status. See LexicalQueryExpression for details.	string (LexicalQueryExpression)
Query	service_status <i>optional</i>	Filter results by service_status. See LexicalQueryExpression for details.	string (LexicalQueryExpression)
Query	sort_by <i>optional</i>	Specify the field priority order and direction for sorting. See SortingOrderExpression for details.	string (SortingOrderExpression)
Query	thin_enabled <i>optional</i>	Filter results by thin_enabled. See LexicalQueryExpression for details.	string (LexicalQueryExpression)
Query	visibility <i>optional</i>	Filter results by visibility. See LexicalQueryExpression for details.	string (LexicalQueryExpression)

Responses

HTTP Code	Description	Schema
200	A JSON array of virtual volumes Headers : X-Total-Count (integer) : The total number of entities in the result set after filtering.	< VirtualVolume > array

3.34.3. Return a VirtualVolume matching the provided name

```
GET /clusters/{cluster_name}/virtual_volumes/{name}
```

Parameters

Type	Name	Description	Schema
Path	cluster_name <i>required</i>	The name of the cluster	string
Path	name <i>required</i>	The name of a specific instance of the resource	string
Query	fields <i>optional</i>	Select which fields are included in the response. 'name' is always included. See FieldSelectionExpression for details.	string (FieldSelectionExpression)

Responses

HTTP Code	Description	Schema
200	A single VirtualVolume	VirtualVolume

Example HTTP response

Response 200

```
{
  "name" : "TEST_vvol",
  "operational_status" : "ok",
  "health_state" : "ok",
  "service_status" : "running",
  "block_count" : 524288,
  "block_size" : 4096,
  "capacity" : 2147483648,
  "locality" : "local",
  "expandable" : true,
  "vpd_id" : "VPD83T3:600014400000010016d5f9474ade8e0",
  "thin_enabled" : "disabled",
  "storage_array_family" : "unknown",
  "supporting_device" : "TEST",
  "visibility" : "local"
}
```

3.34.4. Deletes a single VirtualVolume

```
DELETE /clusters/{cluster_name}/virtual_volumes/{name}
```

Parameters

Type	Name	Description	Schema
Path	cluster_name <i>required</i>	The name of the cluster	string
Path	name <i>required</i>	The name of a specific instance of the resource	string

Responses

HTTP Code	Description	Schema
204	Deleted	No Content

3.34.5. Update attributes on a VirtualVolume

```
PATCH /clusters/{cluster_name}/virtual_volumes/{name}
```

Description

Settable attributes: 'name'

Parameters

Type	Name	Description	Schema
Path	cluster_name <i>required</i>	The name of the cluster	string
Path	name <i>required</i>	The name of a specific instance of the resource	string
Body	virtual_volume_patch_payload <i>required</i>		< JsonPatchOp > array

Responses

HTTP Code	Description	Schema
200	The updated VirtualVolume	VirtualVolume

Example HTTP response

Response 200

```
{
  "name" : "TEST_vvol",
  "operational_status" : "ok",
  "health_state" : "ok",
  "service_status" : "running",
  "block_count" : 524288,
  "block_size" : 4096,
  "capacity" : 2147483648,
  "locality" : "local",
  "expandable" : true,
  "vpd_id" : "VPD83T3:6000144000000010016d5f9474ade8e0",
  "thin_enabled" : "disabled",
  "storage_array_family" : "unknown",
  "supporting_device" : "TEST",
  "visibility" : "local"
}
```

3.34.6. cache invalidate on virtual volume

POST /clusters/{cluster_name}/virtual_volumes/{name}/cache_invalidate

Parameters

Type	Name	Description	Schema
Path	cluster_name <i>required</i>	The name of the cluster	string
Path	name <i>required</i>	The name of a specific instance of the resource	string

Responses

HTTP Code	Description	Schema
200	URI of VirtualVolumeCacheInvalidate	VirtualVolume

Produces

- `application/json`

Example HTTP response

Response 200


```

{
  "name" : "TEST_vvol",
  "operational_status" : "ok",
  "health_state" : "ok",
  "service_status" : "running",
  "block_count" : 524288,
  "block_size" : 4096,
  "capacity" : 2147483648,
  "locality" : "local",
  "expandable" : true,
  "vpd_id" : "VPD83T3:6000144000000010016d5f9474ade8e0",
  "thin_enabled" : "disabled",
  "storage_array_family" : "unknown",
  "supporting_device" : "TEST",
  "visibility" : "local"
}

```

3.34.7. Expand the capacity of a VirtualVolume

POST /clusters/{cluster_name}/virtual_volumes/{name}/expand

Parameters

Type	Name	Description	Schema
Path	cluster_name <i>required</i>	The name of the cluster	string
Path	name <i>required</i>	The name of a specific instance of the resource	string
Body	virtual_volume_expand_payload <i>required</i>		virtual_volume_expand_payload

Responses

HTTP Code	Description	Schema
200	The updated VirtualVolume	VirtualVolume

Example HTTP response

Response 200

```
{
  "name" : "TEST_vvol",
  "operational_status" : "ok",
  "health_state" : "ok",
  "service_status" : "running",
  "block_count" : 524288,
  "block_size" : 4096,
  "capacity" : 2147483648,
  "locality" : "local",
  "expandable" : true,
  "vpd_id" : "VPD83T3:6000144000000010016d5f9474ade8e0",
  "thin_enabled" : "disabled",
  "storage_array_family" : "unknown",
  "supporting_device" : "TEST",
  "visibility" : "local"
}
```

Chapter 4. Definitions

4.1. Aggregate

Name	Schema
count <i>optional</i>	integer
group <i>optional</i>	< string > array

4.2. Aggregates

Type : < [Aggregate](#) > array

4.3. ArrayManagementProvider

Name	Schema
connectivity <i>optional</i>	enum (connected, unreachable)
ip_address <i>optional</i>	string
managed_arrays <i>optional</i>	< string (URI) > array
name <i>optional</i>	string
port <i>optional</i>	string
provider_type <i>optional</i>	enum (SMI-S, REST)
use_ssl <i>optional</i>	boolean
user_name <i>optional</i>	string

4.4. BulkResponse

Name	Schema
status <i>optional</i>	string
tasks <i>optional</i>	< BulkResponse_tasks > array

4.5. BulkResponse_tasks

Name	Schema
additionalProperties <i>optional</i>	object
object <i>optional</i>	string
reason <i>optional</i>	object
status <i>optional</i>	string

4.6. Certificate

Name	Schema
MD5 <i>optional</i>	string
SHA1 <i>optional</i>	string
encoded_certificate <i>optional</i>	string
expires_on <i>optional</i>	string (date-time)
ip_address <i>optional</i>	string
issued_by <i>optional</i>	string
issued_on <i>optional</i>	string (date-time)
issued_to <i>optional</i>	string

4.7. Cluster

Name	Schema
allow_auto_join <i>optional</i>	boolean
cluster_id <i>optional</i>	number
connected <i>optional</i>	boolean
directors <i>optional</i>	< string (URI) > array

Name	Schema
health_indications <i>optional</i>	< string > array
health_state <i>optional</i>	string
ip_address <i>optional</i>	string
is_local <i>optional</i>	boolean
island_id <i>optional</i>	number
name <i>required</i>	string
operational_status <i>optional</i>	string
system_time <i>optional</i>	string
top_level_assembly <i>optional</i>	string
transition_indications <i>optional</i>	< string > array
transition_progress <i>optional</i>	< string > array

4.8. ClusterWitness

Name	Schema
admin_state <i>optional</i>	admin_state
components <i>optional</i>	< ClusterWitness_components > array
private_ip_address <i>optional</i>	string
public_ip_address <i>optional</i>	string

4.9. ClusterWitness_components

Name	Schema
admin_state <i>optional</i>	admin_state
diagnostic <i>optional</i>	string

Name	Schema
management_connectivity <i>optional</i>	string
name <i>optional</i>	string
operational_state <i>optional</i>	string

4.10. ConsistencyGroup

Name	Schema
active_clusters <i>optional</i>	< string (URI) > array
auto_resume_at_loser <i>optional</i>	boolean
cache_mode <i>optional</i>	string
detach_rule <i>optional</i>	object
name <i>optional</i>	string
operational_status <i>optional</i>	< ConsistencyGroup_operational_status > array
passive_clusters <i>optional</i>	< string (URI) > array
read_only <i>optional</i>	boolean
recoverpoint <i>optional</i>	object
recoverpoint_enabled <i>optional</i>	boolean
storage_at_clusters <i>optional</i>	< string (URI) > array
virtual_volumes <i>optional</i>	< string (URI) > array
visibility <i>optional</i>	< string (URI) > array

4.11. ConsistencyGroup_operational_status

Name	Schema
cluster <i>optional</i>	string (URI)

Name	Schema
details <i>optional</i>	< string > array
summary <i>optional</i>	string

4.12. Device

Name	Schema
application_consistent <i>optional</i>	boolean
auto_resume <i>optional</i>	boolean
block_count <i>optional</i>	number
block_size <i>optional</i>	number
capacity <i>optional</i>	number
geometry <i>optional</i>	string
health_indications <i>optional</i>	< string > array
health_state <i>optional</i>	string
locality <i>optional</i>	string
name <i>optional</i>	string
operational_status <i>optional</i>	string
rebuild_allowed <i>optional</i>	boolean
rebuild_eta <i>optional</i>	string
rebuild_progress <i>optional</i>	string
rebuild_status <i>optional</i>	string
rebuild_type <i>optional</i>	string
service_status <i>optional</i>	string

Name	Schema
storage_array_family <i>optional</i>	string
stripe_depth <i>optional</i>	string
system_id <i>optional</i>	string
thin_capable <i>optional</i>	boolean
top_level <i>optional</i>	boolean
transfer_size <i>optional</i>	number
virtual_volume <i>optional</i>	string (URI)
visibility <i>optional</i>	string

4.13. DeviceMigration

Name	Schema
from_cluster <i>optional</i>	string (URI)
name <i>required</i>	string
percentage_done <i>optional</i>	integer
source <i>optional</i>	string (URI)
source_exported <i>optional</i>	boolean
start_time <i>optional</i>	string
status <i>optional</i>	string
target <i>optional</i>	string (URI)
target_exported <i>optional</i>	boolean
to_cluster <i>optional</i>	string (URI)
transfer_size <i>optional</i>	integer

Name	Schema
type <i>optional</i>	string

4.14. Director

Name	Schema
auto_boot <i>optional</i>	boolean
auto_restart <i>optional</i>	boolean
cluster_id <i>optional</i>	integer
communication_status <i>optional</i>	communication_status
director_count <i>optional</i>	integer
director_family <i>optional</i>	string
director_id <i>optional</i>	string
director_type <i>optional</i>	string
engine_id <i>optional</i>	string
firmware_uptime <i>optional</i>	integer
health_indications <i>optional</i>	< string > array
health_state <i>optional</i>	health_state
hostname <i>optional</i>	string
name <i>optional</i>	string
operational_status <i>optional</i>	operational_status
os_uptime <i>optional</i>	integer
port <i>optional</i>	integer
serial_number <i>optional</i>	string

Name	Schema
system_time <i>optional</i>	string
temperature_threshold_exceeded <i>optional</i>	boolean
voltage_threshold_exceeded <i>optional</i>	boolean
vplex_kdriver_status <i>optional</i>	string

4.15. DistributedDevice

Name	Schema
capacity <i>optional</i>	integer
geometry <i>optional</i>	string
health_indications <i>optional</i>	< string > array
health_state <i>optional</i>	string
name <i>optional</i>	string
operational_status <i>optional</i>	string
rebuild_allowed <i>optional</i>	boolean
rebuild_eta <i>optional</i>	integer
rebuild_progress <i>optional</i>	integer
rebuild_status <i>optional</i>	string
rebuild_type <i>optional</i>	string
rule_set_name <i>optional</i>	string (URI)
service_status <i>optional</i>	string
storage_array_family <i>optional</i>	storage_array_family
thin_capable <i>optional</i>	boolean

Name	Schema
virtual_volume <i>optional</i>	string (URI)

4.16. Engine

Name	Schema
cluster_ip_seed <i>optional</i>	string
enclosure_id <i>optional</i>	string
engine_family <i>optional</i>	string
engine_id <i>optional</i>	string
health_indications <i>optional</i>	< string > array
health_state <i>optional</i>	string
marker_led <i>optional</i>	string
name <i>optional</i>	string
operational_status <i>optional</i>	string
part_number <i>optional</i>	string
revision_number <i>optional</i>	string
serial_number <i>optional</i>	string
top_level_assembly <i>optional</i>	string
wwn_seed <i>optional</i>	string

4.17. Error

A wrapper for an error message

Name	Schema
cause <i>optional</i>	string

Name	Schema
error_code <i>optional</i>	string
message <i>required</i>	string

4.18. Extent

Name	Schema
application_consistent <i>optional</i>	string
block_count <i>optional</i>	number
block_offset <i>optional</i>	number
block_size <i>optional</i>	number
capacity <i>optional</i>	number
health_indications <i>optional</i>	< string > array
health_state <i>optional</i>	string
io_status <i>optional</i>	string
itls <i>optional</i>	< string > array
locality <i>optional</i>	string
name <i>optional</i>	string
operational_status <i>optional</i>	string
storage_array_family <i>optional</i>	string
storage_volume <i>optional</i>	string (URI)
storage_volumetype <i>optional</i>	string
system_id <i>optional</i>	string
thin-capable <i>optional</i>	boolean

Name	Schema
underlying_storage_block_size <i>optional</i>	number
use <i>optional</i>	string
used_by <i>optional</i>	< string (URI) > array
vendor_specific_name <i>optional</i>	string

4.19. ExtentMigration

Name	Schema
from_cluster <i>optional</i>	string (URI)
name <i>required</i>	string
percentage_done <i>optional</i>	integer
source <i>optional</i>	string (URI)
start_time <i>optional</i>	string
status <i>optional</i>	string
target <i>optional</i>	string (URI)
to_cluster <i>optional</i>	string (URI)
transfer_size <i>optional</i>	integer
type <i>optional</i>	string

4.20. HardwarePort

Name	Schema
address <i>optional</i>	string
director <i>optional</i>	string
name <i>optional</i>	string

Name	Schema
role <i>optional</i>	enum (front-end, back-end, local-com, wan-com, management, inter-director-communication)
status <i>optional</i>	enum (up, down, no-link)

4.21. HardwarePorts

Type : < [HardwarePort](#) > array

4.22. InitiatorPort

Name	Schema
bandwidth_limit <i>optional</i>	string
iops_limit <i>optional</i>	integer
iscsi_name <i>optional</i>	string
name <i>optional</i>	string
node_wwn <i>optional</i>	string
port_wwn <i>optional</i>	string
target_ports <i>optional</i>	< string (URI) > array
type <i>optional</i>	string

4.23. JsonPatchOp

A JsonPatch operation

Name	Description	Schema
op <i>required</i>	<p>The body of an HTTP PATCH is a Json array of JsonPatchOp objects. These patch operations are applied sequentially to the resource to which the PATCH was sent. If any operation results in a failure, execution of any subsequent operations is aborted, but no roll-back is performed. The field the operation acts on is specified by 'path'. Operations are applied in a consistent order, by type:</p> <ol style="list-style-type: none"> 1. test - Assert that the value of a scalar-valued field is equal to 'value' at the start of the patch operation. 2. add - Insert 'value' into a collection-valued field. 3. remove - Remove 'value' from a collection-valued field. 4. replace - Set a scalar-valued field to 'value'. <p>Operations of the same type are applied in the order they appear in the patch body.</p>	enum (add, remove, replace, test)
path <i>required</i>	A Json pointer to the target of an operation	string
value <i>required</i>	The value to be used for the given operation	object

4.24. License

Name	Description	Schema
capacity <i>optional</i>	Capacity allowed by the license. Only applicable to capacity-based license.	number
expiry_date <i>optional</i>		string (date-time)
feature_name <i>required</i>		string
issued_date <i>optional</i>		string (date-time)
issuer <i>optional</i>		string
notice <i>optional</i>		string
notification <i>optional</i>	Notification for the license. Only applicable to capacity-based license.	string
platform <i>optional</i>		string
plc <i>optional</i>		string
product_line <i>optional</i>		string

Name	Description	Schema
uom_code <i>optional</i>		string
uom_name <i>optional</i>		string
usage <i>optional</i>	usage of the license. Only applicable to capacity-based license.	number
valid <i>optional</i>		string

4.25. LicenseArray

Type : < [License](#) > array

4.26. LocalComHealth

Name	Schema
details <i>optional</i>	< string > array
status <i>optional</i>	com_status

4.27. LoggingVolume

Name	Schema
application_consistent <i>optional</i>	boolean
block_count <i>optional</i>	integer
block_size <i>optional</i>	integer
capacity <i>optional</i>	integer
health_indications <i>optional</i>	< string > array
health_state <i>optional</i>	string
name <i>optional</i>	string
operational_status <i>optional</i>	string
storage_array_family <i>optional</i>	storage_array_family

Name	Schema
system_id <i>optional</i>	string

4.28. LogicalUnit

Name	Schema
active_aao_controller <i>optional</i>	< string > array
active_aao_visibility <i>optional</i>	< string > array
alua_support <i>optional</i>	enum (implicit, explicit, none, implicit-explicit)
connectivity_status <i>optional</i>	connectivity_status
luns <i>optional</i>	< string > array
name <i>optional</i>	string
passive_aan_controller <i>optional</i>	< string > array
passive_aan_visibility <i>optional</i>	< string > array
storage_volume <i>optional</i>	string (URI)
visibility <i>optional</i>	enum (active, passive, active-optimized, active-non-optimized, both, both-alua, none)

4.29. LoginPayload

Name	Description	Schema
expiry <i>optional</i>	Expiry time	string

4.30. LoginResponse

Name	Description	Schema
expires_in <i>optional</i>	Expiry time	string
token <i>optional</i>	JWT token	string
token_type <i>optional</i>	Bearer token	string

4.31. MetaVolume

Name	Schema
active <i>optional</i>	boolean
application_consistent <i>optional</i>	boolean
block_count <i>optional</i>	integer
block_size <i>optional</i>	integer
capacity <i>optional</i>	integer
health_indications <i>optional</i>	< string > array
health_state <i>optional</i>	string
name <i>optional</i>	string
operational_status <i>optional</i>	string
storage_array_family <i>optional</i>	storage_array_family
system_id <i>optional</i>	string

4.32. Monitors

Name	Schema
average_period <i>optional</i>	number
bucket_count <i>optional</i>	number
bucket_max <i>optional</i>	number
bucket_min <i>optional</i>	number
bucket_width <i>optional</i>	number
collecting_data <i>optional</i>	boolean
firmware_id <i>optional</i>	number

Name	Schema
idle_for <i>optional</i>	number
name <i>optional</i>	string
ownership <i>optional</i>	boolean
period <i>optional</i>	number
statistics <i>optional</i>	object
targets <i>optional</i>	< string > array
timestamp <i>optional</i>	string
version <i>optional</i>	string

4.33. Permission

Type : object

4.34. Port

Name	Schema
director <i>optional</i>	string
director_id <i>optional</i>	string
discovered_initiators <i>optional</i>	< string (URI) > array
enabled <i>optional</i>	boolean
export_status <i>optional</i>	string
exports <i>optional</i>	< Port_exports > array
iscsi_name <i>optional</i>	string
name <i>optional</i>	string
node_wwn <i>optional</i>	string

Name	Schema
port_wwn <i>optional</i>	string

4.35. Port_exports

Name	Schema
lun <i>optional</i>	string
status <i>optional</i>	string
view <i>optional</i>	string (URI)
volume <i>optional</i>	string (URI)

4.36. RPACluster

Name	Schema
name <i>optional</i>	string
rp_health_indications <i>optional</i>	< string > array
rp_health_status <i>optional</i>	string
rpa_host <i>optional</i>	string
vplex_cluster <i>optional</i>	string (URI)

4.37. RuleSet

Name	Schema
name <i>optional</i>	string

4.38. StorageArray

Name	Schema
auto_switch <i>optional</i>	boolean

Name	Schema
connectivity_status <i>optional</i>	connectivity_status
controllers <i>optional</i>	< string > array
logical_unit_count <i>optional</i>	integer
name <i>required</i>	string
ports <i>optional</i>	< string > array
product_revision <i>optional</i>	string
storage_array_family <i>optional</i>	storage_array_family
storage_groups <i>optional</i>	string (URI)
storage_pools <i>optional</i>	string (URI)

4.39. StorageGroup

Name	Schema
SRP <i>optional</i>	string
masking_views <i>optional</i>	< string > array
name <i>optional</i>	string
number_of_volumes <i>optional</i>	string
parent_storage_group <i>optional</i>	string
policy <i>optional</i>	string

4.40. StorageMap

Name	Schema
children <i>optional</i>	< string (URI) > array
parents <i>optional</i>	< string (URI) > array

Name	Schema
uri <i>optional</i>	string (URI)

4.41. StoragePool

Name	Schema
last_refreshed <i>optional</i>	string (date_time)
name <i>optional</i>	string
policies <i>optional</i>	string
pool_types <i>optional</i>	string
total_free_space <i>optional</i>	number
total_space <i>optional</i>	number
total_used_space <i>optional</i>	number

4.42. StorageView

Name	Schema
initiators <i>optional</i>	< string (URI) > array
name <i>optional</i>	string
operational_status <i>optional</i>	string
ports <i>optional</i>	< string (URI) > array
virtual_volumes <i>optional</i>	< StorageView_virtual_volumes > array

4.43. StorageView_virtual_volumes

Name	Schema
capacity <i>optional</i>	integer
lun <i>optional</i>	integer

Name	Schema
uri <i>optional</i>	string (URI)
vpd_id <i>optional</i>	string

4.44. StorageVolume

Name	Schema
application_consistent <i>optional</i>	boolean
block_count <i>optional</i>	integer
block_size <i>optional</i>	integer
capacity <i>optional</i>	integer
health_indications <i>optional</i>	< string > array
health_state <i>optional</i>	string
io_status <i>optional</i>	string
itls <i>optional</i>	< StorageVolume_itls > array
largest_free_chunk <i>optional</i>	integer
name <i>optional</i>	string
operational_status <i>optional</i>	string
provision_type <i>optional</i>	string
storage_array_family <i>optional</i>	storage_array_family
storage_array_name <i>optional</i>	string (URI)
storage_volumetype <i>optional</i>	string
system_id <i>optional</i>	string
thin_capable <i>optional</i>	boolean

Name	Schema
thin_rebuild <i>optional</i>	boolean
use <i>optional</i>	string
used_by <i>optional</i>	< string (URI) > array
vendor_specific_name <i>optional</i>	string

4.45. StorageVolume_itls

Name	Schema
initiator <i>optional</i>	string
lun <i>optional</i>	string
target <i>optional</i>	string

4.46. SystemConfig

Name	Schema
limits <i>optional</i>	object
platform <i>optional</i>	enum (unknown, VS2, VS6)
product_type <i>optional</i>	enum (local, metro, unknown)
wan_type <i>optional</i>	enum (FC, IP, unknown)

4.47. Version

Name	Schema
info <i>optional</i>	string
name <i>optional</i>	string
version <i>optional</i>	string

4.48. Versions

Type : < [Version](#) > array

4.49. ViasJob

Name	Schema
base_name <i>optional</i>	string
capacity <i>optional</i>	integer
consistency_group <i>optional</i>	string (URI)
date_created <i>optional</i>	string (datetime)
description <i>optional</i>	string
last_updated <i>optional</i>	string (datetime)
name <i>optional</i>	string
number_of_volumes <i>optional</i>	integer
status <i>optional</i>	string
status_details <i>optional</i>	string
storage_pools <i>optional</i>	< ViasJob_storage_pools > array
storage_views <i>optional</i>	< string (URI) > array
target_cluster <i>optional</i>	string (URI)
thin <i>optional</i>	boolean

4.50. ViasJob_storage_pools

Name	Schema
array <i>optional</i>	string (URI)
group <i>optional</i>	string (URI)

Name	Schema
pool <i>optional</i>	string (URI)

4.51. VirtualVolume

Name	Schema
block_count <i>optional</i>	integer
block_size <i>optional</i>	integer
capacity <i>optional</i>	integer
consistency_group <i>optional</i>	string
expandable <i>optional</i>	boolean
expandable_capacity <i>optional</i>	integer
expansion_method <i>optional</i>	string
expansion_status <i>optional</i>	string
health_indications <i>optional</i>	< string > array
health_state <i>optional</i>	string
initialization_status <i>optional</i>	string
locality <i>optional</i>	string
name <i>optional</i>	string
operational_status <i>optional</i>	string
recoverpoint_protection_at <i>optional</i>	< string > array
recoverpoint_usage <i>optional</i>	string
service_status <i>optional</i>	string
storage_array_family <i>optional</i>	string

Name	Schema
supporting_device <i>optional</i>	string (URI)
system_id <i>optional</i>	string
thin_enabled <i>optional</i>	string
visibility <i>optional</i>	string
vpd_id <i>optional</i>	string

4.52. WanComHealth

Name	Schema
details <i>optional</i>	< string > array
status <i>optional</i>	com_status

4.53. admin_state

Type : enum (disabled, enabled, inconsistent, unknown)

4.54. amp_payload

Name	Schema
ip_address <i>required</i>	string
password <i>required</i>	string (password)
port <i>required</i>	integer
provider_name <i>required</i>	string
provider_type <i>required</i>	string
use_ssl <i>required</i>	boolean
user_name <i>required</i>	string

4.55. certificate_payload

Name	Schema
ssl_certificate <i>required</i>	string

4.56. cg_resume_payload

Name	Description	Schema
resume_at <i>optional</i>	The cluster where I/O should be resumed.	string (URI)

4.57. claim_payload

Name	Description	Schema
application_consistent <i>optional</i>	Set to mark the volume as application consistent	boolean

4.58. com_status

Type : enum (not-applicable, full, partial, none)

4.59. communication_status

Type : enum (unknown, ok, busy, no_contact, lost-communication)

4.60. connectivity_status

Type : enum (ok, degraded, error, initial, repairable, unknown)

4.61. consistency_group_payload

Name	Schema
name <i>required</i>	string

4.62. device_migration_payload

Name	Description	Schema
name <i>required</i>		string

Name	Description	Schema
paused <i>optional</i>		boolean
source <i>required</i>		string (URI)
target <i>required</i>		string (URI)
transfer_size <i>optional</i>	Number in Byte. Must be a multiple of 4K. Range: 40KB - 128M. Default: 128KB(131072).	integer

4.63. device_payload

Name	Description	Schema
geometry <i>required</i>	Geometry for the new device. Valid values are raid-0, raid-1, or raid-c.	string
name <i>required</i>		string
primary_leg <i>required</i>		string (URI)
secondary_legs <i>optional</i>		< string (URI) > array
stripe_depth <i>optional</i>	Required only if geometry is raid-0.	string

4.64. distributed_consistency_group_payload

Name	Schema
name <i>optional</i>	string

4.65. distributed_device_payload

Name	Schema
name <i>required</i>	string
primary_leg <i>required</i>	string (URI)
rule_set <i>optional</i>	string
secondary_leg <i>required</i>	string (URI)

Name	Schema
sync <i>optional</i>	boolean

4.66. distributed_virtual_volume_expand_payload

Name	Description	Schema
skip_init <i>optional</i>	If skip_init is true the blocks of the expanded space will NOT be initialized to ensure single-disk semantics. This option should only be used under very specific circumstances, such as part of the recovery procedure after restoring metadata from backup.	boolean

4.67. distributed_virtual_volume_payload

Name	Schema
device <i>optional</i>	string (URI)
init <i>optional</i>	boolean
thin <i>optional</i>	boolean
tier <i>optional</i>	string

4.68. extent_migration_payload

Name	Description	Schema
name <i>optional</i>		string
paused <i>optional</i>		boolean
source <i>optional</i>		string (URI)
target <i>optional</i>		string (URI)
transfer_size <i>optional</i>	Number in Byte. Must be a multiple of 4K. Range: 40KB - 128M. Default: 128KB(131072).	integer

4.69. extent_payload

Name	Schema
storage_volume <i>required</i>	string (URI)

4.70. health_state

Type : enum (unknown, ok, degraded, minor-failure, major-failure, critical_failure, non-recoverable-error, isolated)

4.71. inline_response_200

Name	Schema
claimable_storage_volumes <i>optional</i>	< inline_response_200_claimable_storage_volumes > array
storage_array <i>optional</i>	string
unclaimed_storage_volumes <i>optional</i>	integer

4.72. inline_response_200_claimable_storage_volumes

Name	Schema
storage_volume_name <i>optional</i>	string
storage_volume_path <i>optional</i>	string

4.73. jobs_storage_pools

Name	Description	Schema
storage_group <i>optional</i>	Which storage group to use. If omitted, storage group is assigned automatically.	string (URI)
storage_pool <i>optional</i>	Which pool to provision the underlying storage from.	string (URI)

4.74. license_payload

Name	Description	Schema
file_data <i>required</i>	Provide base64 encoded license file content.	string (byte)

4.75. operational_status

Type : enum (unknown, other, ok, degraded, stressed, predictive-failure, error, non-recoverable-error, starting, stopping, stopped, in-service, no-contact, lost-communication, aborted, dormant, supporting-entity-in-error, completed, power-mode, removed, online, offline, rebooting, success, failure, write-disabled, write-protected, not-ready, unsupported, vendor-reserved)

4.76. rediscover_payload

Name	Description	Schema
timeout <i>optional</i>	Time to allow the discovery process to take	integer
wait <i>optional</i>	Time to wait the discovery process before returning regardless of outcome	integer

4.77. register_payload

Name	Description	Schema
iscsi_name <i>optional</i>	ISCSI name of the port to register. Either port_wwn or iscsi_name should be provided.	string
node_wwn <i>optional</i>	Provide node wwn for registering the port. Example : "node_wwn"	string
port_name <i>required</i>	Provide a new name for the registered initiator port. Example : "new_name"	string
port_wwn <i>optional</i>	WWN of the port to register. Either port_wwn or iscsi_name should be provided.	string
type <i>optional</i>	Provide host type for registering the port. Example : "host_type"	string

4.78. storage_array_family

Type : enum (unknown, internal, other, mixed, symmetrix, clariion, xtremio)

4.79. storage_view_payload

Name	Schema
name <i>required</i>	string
ports <i>required</i>	< string (URI) > array

4.80. unclaim_payload

Name	Description	Schema
vias_return_to_pool <i>optional</i>	For VIAS-based storage-volumes, this will return the storage capacity of each VIAS-based volume to the pool on the corresponding storage-array.	boolean

4.81. validate_payload

Name	Schema
file_data <i>optional</i>	string (byte)

4.82. vias_payload

Name	Description	Schema
base_name <i>required</i>	The prefix to use when naming each virtual volume.	string
capacity <i>required</i>	The capacity of each virtual volume, in bytes.	number
consistency_group <i>optional</i>	Which consistency group the virtual volumes will be added to.	string (URI)
job_name <i>optional</i>	The name for the provisioning job. If omitted a random name is generated.	string
number_of_volumes <i>required</i>	The number of virtual volumes to provision.	number
storage_pools <i>required</i>		< jobs_storage_pools > array
storage_views <i>required</i>		< string (URI) > array
thin <i>optional</i>	Whether the virtual volumes and all underlying storage should be thin provisioned.	boolean

4.83. virtual_volume_expand_payload

Name	Description	Schema
skip_init <i>optional</i>	If skip_init is true the blocks of the expanded space will NOT be initialized to ensure single-disk semantics. This option should only be used under very specific circumstances, such as part of the recovery procedure after restoring metadata from backup.	boolean

Name	Description	Schema
spare_storage <i>optional</i>	Specifies the target device or extent that will be concatenated to the supporting storage. It shouldn't have a virtual-volume on top of it.	string (URI)

4.84. virtual_volume_payload

Name	Schema
device <i>required</i>	string (URI)
init <i>optional</i>	boolean
thin <i>optional</i>	boolean
tier <i>optional</i>	string