



THE GUIDE OF

QVD API Integration

QVD DOCUMENTATION

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The QVD API lets you administrate the different components that make up QVD.

1 Paths

The following table shows the different URIs of the API to which you can access:

Table 1: Routes API

PROTOCOL	URI	VERBS	DESCRIPTION
HTTPS	/api/info	POST GET	Returns public information about the API and does not require authentication. Said information is: <ul style="list-style-type: none"> • Date of the server in UTC format • Multitenant mode is activated or not • API version • Diverse public configuration parameters
HTTPS	/api	POST GET	This is the main route to access the functions of the API. The information returned depends on the action introduced. These actions are described in the section [api]
HTTPS	/api/login	POST	With this path some credentials for a temporary session can be generated
HTTPS	/api/logout	POST	Path to delete the credentials of the temporary session that is currently being used
WSS	/api/staging		Any change in the system is reported through this web socket.
HTTPS	/api/di/upload	POST OPTIONS	Upload a disk image from your local machine
WSS	/api/di/download		With this web socket you can know the status when asking for the download of an image from a URL.

2 Types

The types for the different parameters of the API are the following:

Table 2: Types API

TYPE	DEFINITION	EXAMPLE
string		"string"
integer		10
token	string defined in a concrete action	"id"
regex	string with a chain to do the matching. If % is used at the beginning and at the end the matching will be applied to the results that contain the string	"%vm%"

Table 2: (continued)

TYPE	DEFINITION	EXAMPLE
op	"~" "="	
	"<"	
	">"	
	"←"	
	">="	
	"!="	
	"<>"	
cond	"-or" "-and"	
order	"-asc" "-desc"	
var	string integer	
hash	{string : var, ... }	{"key1":10,"key2":"value" }
array	[var, ...]	["string", 10]
token_hash	{token : var, ... }	{"id":10,"name":"admin" }
token_array	[token, ...]	["id", "name"]
filter_list	{filter, ... }	{"-or":["id",10,"name","admin"],"id":10}
filter	token : var cond : filter_array token : array token : {op : regex }	"id":10 "-or":["id",10,"name","admin"] "id" : ["1000","2000","3000"] "name" : {"~" : "%vm%" }
filter_array	[token, var, token, var, ...]	["id",10,"name","admin"]
order_list	{"field" : token, "order" : order} {"field" : token_array, "order" : order}	{"field":"id","order":"-desc"} {"field":["id","name"],"order":"-asc" }

3 /api

Firstly, to access the API it is necessary to authenticate the user and to do so, there are two possibilities: * Implicit authentication. Use the login path to generate some credentials that are managed using cookies. After a satisfactory authentication, any request that is made to the API will be processed. And finally the logout path will be called to eliminate the credentials. * Explicit authentication. Specifying the authentication credentials in any of the calls of the API.

In both methods, it is necessary to specify the parameters "login" and "password" (and "tenant" if the multitenant mode is activated) or to provide the session id generated in a previous consultation using in this case the parameter "sid".



Note

It is strongly recommended to use the first method of authentication so as not to store the credentials in the history and that such credentials are being sent in each request.

Moreover all the calls to this API path require at the very least the parameter "action" in the URI and the list of possible values that this field can take are specified in this section. A call to the API could be, for example:

```
GET https://myqvd.theqvd.com/api?action=current_admin_setup&sid= ↔
ffc6097dc66a0ba748384bab4b3f18764c950106
```

```
GET https://myqvd.theqvd.com/api?action=current_admin_setup&login=myadmin&password=mypwd& ↔
tenant=mytenant
```


All the actions return the status code HTTP 200 with a message JSON. If everything has gone well, the JSON generated will contain a field "status" with value 0 and the desired fields in the request. Alternatively, the field "status" will contain a value different from 0 with a message about the error and additional information.

- **OK**

```
{
  "sid": "29f91648cd2ecc9cb5a138dbb42d9f6804e0cdad",
  "status": 0,
  "total": 0,
  "rows": [],
  "message": "Successful completion"
}
```

- **ERROR**

```
{
  "additional_info": "No additional information",
  "status": 3100,
  "message": "No credentials provided for authentication"
}
```

Below is the complete list of accepted parameters for each action of the API. For each parameter, we specify its type, defined above, and each of the accepted tokens for each parameter with the necessary ACLs to be able to use it. If the token is compulsory it will be shown underlined>



Note

The token "tenant_id" is always compulsory if requests are made to the Api as superadministrator and the multitenant mode is active. In any other case it is not necessary.

3.1 Login

3.2 ACLs

3.2.1 acl_get_list

3.2.1.1 Description

Returns the parameters of a list of ACLs

3.2.1.2 ACLs

- role.see.acl-list
- administrator.see.acl-list

3.2.1.3 Parameters

Parameter	Token	ACL
filters	id	
<filter_list>	name	
	description	

Parameter	Token	ACL
	acl_name	
	admin_id	
	operative	
fields <token_array>	id	
	name	
	description	
	roles	
	operative	
order_by <order_list>	id	
	name	
	description	

3.2.1.4 Examples

- Input:

```
action=acl_get_list&filters={"id":1}
```

- Output:

```
{
  "total" : 1,
  "message" : "Successful completion",
  "status" : 0,
  "rows" : [
    {
      "roles" : {
        "43" : "Root"
      },
      "description" : "Create administrators",
      "name" : "administrator.create.",
      "id" : 1,
      "operative" : 1
    }
  ]
}
```

3.2.2 get_acls_in_roles

3.2.2.1 Description

Returns the parameters of a list of ACLs

3.2.2.2 ACLs

- administrator.see.acl-list

3.2.2.3 Parameters

Parameter	Token	ACL
filters <filter_list>	id	
	name	

Parameter	Token	ACL
	description	
	acl_name	
	role_id	
	operative	
fields <token_array>	id	
	name	
	description	
	roles	
	operative	
order_by <order_list>	id	
	name	
	description	

3.2.2.4 Examples

- Input:

```
action=get_acls_in_roles
```

- Output:

```
{}
```

3.2.3 get_acls_in_admins

3.2.3.1 Description

Returns the parameters of a list of ACLs

3.2.3.2 ACLs

- administrator.see.acl-list

3.2.3.3 Parameters

Parameter	Token	ACL
filters <filter_list>	id	
	name	
	description	
	acl_name	
	admin_id	
	operative	
fields <token_array>	id	
	name	
	description	
	roles	
	operative	
order_by <order_list>	id	
	name	
	description	

3.2.3.4 Examples

- Input:

```
action=get_acls_in_admins
```

- Output:

```
{}
```

3.2.4 acl_tiny_list

3.2.4.1 Description

Returns a subset of parameters of a list of ACLs

3.2.4.2 ACLs

- role.see.acl-list
- administrator.see.acl-list

3.2.4.3 Parameters

Parameter	Token	ACL
filters <filter_list>	name	
fields <token_array>	id	
	name	
order_by <order_list>	id	
	name	
	description	

3.2.4.4 Examples

- Input:

```
action=acl_tiny_list
```

- Output:

```
{
  "total" : 3,
  "status" : 0,
  "message" : "Successful completion",
  "rows" : [
    {
      "id" : 1,
      "name" : "administrator.create."
    },
    {
```

```

    "name" : "administrator.create.language",
    "id" : 2
  },
  {
    "name" : "administrator.delete.",
    "id" : 3
  }
]
}

```

3.2.5 number_of_acls_in_role

3.2.5.1 Description

Returns the number of acls in a role

3.2.5.2 ACLs

- administrator.see.acl-list

3.2.5.3 Parameters

Parameter	Token	ACL
filters <filter_list>	role_id	

3.2.5.4 Examples

- Input:

```
action=number_of_acls_in_role&filters={"role_id":1}
```

- Output:

```

{
  "%" : {
    "total" : 309,
    "effective" : 2
  },
  "status" : 0,
  "message" : "Successful completion"
}

```

3.2.6 number_of_acls_in_admin

3.2.6.1 Description

Returns the number of acls in an administrator

3.2.6.2 ACLs

- administrator.see.acl-list

3.2.6.3 Parameters

Parameter	Token	ACL
filters <filter_list>	admin_id	

3.2.6.4 Examples

- Input:

```
action=number_of_acls_in_admin&filters={"admin_id":1}
```

- Output:

```
{
  "%": {
    "effective": 309,
    "total": 309
  },
  "status": 0,
  "message": "Successful completion"
}
```

3.3 Roles

3.3.1 role_get_list

3.3.1.1 Description

Returns the parameters of a list of roles

3.3.1.2 ACLs

- role.see-main.

3.3.1.3 Parameters

Parameter	Token	ACL
filters <filter_list>	id	
	name	
	tenant_id	
	tenant_name	
	description	
	fixed	
	internal	
	creation_date	role.filter.creation-date
	creation_admin_id	role.filter.created-by
creation_admin_name	role.filter.created-by	
fields <token_array>	id	
	name	
	description	role.see.description
	acls	role.see.acls

Parameter	Token	ACL
	roles	role.see.roles
	fixed	
	internal	
	creation_date	role.filter.creation-date
	creation_admin_id	role.filter.created-by
	creation_admin_name	role.filter.created-by
order_by <order_list>	id	
	name	
	tenant_id	
	tenant_name	
	description	role.see.description
	fixed	
	internal	
	creation_date	role.filter.creation-date
	creation_admin_id	role.filter.created-by
	creation_admin_name	role.filter.created-by

3.3.1.4 Examples

- Input:

```
action=role_get_list&filters={"id":1}
```

- Output:

```
{
  "message" : "Successful completion",
  "total" : 1,
  "rows" : [
    {
      "internal" : 1,
      "name" : "Administrators Creator",
      "id" : 1,
      "tenant_name" : "-",
      "acls" : {
        "positive" : [
          "administrator.create.",
          "administrator.create.language"
        ],
        "negative" : []
      },
      "description" : null,
      "creation_admin_name" : null,
      "tenant_id" : -1,
      "creation_date" : null,
      "creation_admin_id" : null,
      "fixed" : 1,
      "roles" : {}
    }
  ],
  "status" : 0
}
```

3.3.2 role_get_details

3.3.2.1 Description

Returns all the parameters of a role

3.3.2.2 ACLs

- role.see-details

3.3.2.3 Parameters

Parameter	Token	ACL
filters <filter_list>	id	
	tenant_id	
fields <token_array>	id	
	name	
	description	role.see.description
	acls	role.see.acls
	roles	role.see.roles
	fixed	
	internal	
	creation_date	role.filter.creation-date
	creation_admin_id	role.filter.created-by
	creation_admin_name	role.filter.created-by
order_by <order_list>	id	
	name	
	tenant_id	
	tenant_name	
	description	role.see.description
	fixed	
	internal	
	creation_date	role.filter.creation-date
	creation_admin_id	role.filter.created-by
	creation_admin_name	role.filter.created-by

3.3.2.4 Examples

- Input:

```
action=role_get_details&filters={"id":1}
```

- Output:

```
{
  "message" : "Successful completion",
  "rows" : [
    {
      "tenant_name" : "-",
      "id" : 1,
      "name" : "Administrators Creator",
      "internal" : 1,
      "roles" : {},
      "fixed" : 1,

```



```

    "creation_date" : null,
    "creation_admin_id" : null,
    "tenant_id" : -1,
    "creation_admin_name" : null,
    "acls" : {
      "negative" : [],
      "positive" : [
        "administrator.create.",
        "administrator.create.language"
      ]
    },
    "description" : null
  }
],
"total" : 1,
"status" : 0
}

```

3.3.3 role_tiny_list

3.3.3.1 Description

Returns a subset of the parameters of a list of roles

3.3.3.2 ACLs

- administrator.see.roles
- role.see.inherited-roles
- tenant.purge.

3.3.3.3 Parameters

Parameter	Token	ACL
filters <filter_list>	tenant_id	
fields <token_array>	id	
	name	
	tenant_name	
order_by <order_list>	id	
	name	
	tenant_id	
	tenant_name	
	description	role.see.description
	fixed	
	internal	
	creation_date	role.filter.creation-date
	creation_admin_id	role.filter.created-by
creation_admin_name	role.filter.created-by	

3.3.3.4 Examples

- Input:

```
action=role_tiny_list
```

- **Output:**

```
{
  "rows" : [
    {
      "tenant_name" : "-",
      "id" : 1,
      "name" : "Administrators Creator"
    }
  ],
  "total" : 1,
  "message" : "Successful completion",
  "status" : 0
}
```

3.3.4 role_all_ids

3.3.4.1 Description

Returns the ids of the roles

3.3.4.2 ACLs

- role.see-main.
- role.-massive.

3.3.4.3 Parameters

Parameter	Token	ACL
filters <filter_list>	id	
	name	
	tenant_id	
	tenant_name	
	description	
	fixed	
	internal	
	creation_date	role.filter.creation-date
	creation_admin_id	role.filter.created-by
creation_admin_name	role.filter.created-by	
fields <token_array>	id	
order_by <order_list>	id	
	name	
	tenant_id	
	tenant_name	
	description	role.see.description
	fixed	
	internal	
	creation_date	role.filter.creation-date
	creation_admin_id	role.filter.created-by
creation_admin_name	role.filter.created-by	

3.3.4.4 Examples

- Input:

```
action=role_all_ids
```

- Output:

```
{
  "status" : 0,
  "rows" : [
    1,
    2
  ],
  "total" : 2,
  "message" : "Successful completion"
}
```

3.3.5 role_create

3.3.5.1 Description

Creates a role

3.3.5.2 ACLs

- role.create.

3.3.5.3 Parameters

Parameter	Token	ACL
arguments <token_hash>	name	
	description	
	tenant_id	
	fixed	
	internal	
	__acls__	role.update.assign-acl
	__roles__	role.update.assign-role

3.3.5.4 Examples

- Input:

```
action=create_role&arguments={"name":"Rol"}
```

- Output:

```
{
  "status" : 0,
  "total" : 1,
  "rows" : [
```

```

    {
      "id" : 10004
    }
  ],
  "message" : "Successful completion"
}

```

3.3.6 role_update

3.3.6.1 Description

Updates a role

3.3.6.2 ACLs

- role.update.

3.3.6.3 Parameters

Parameter	Token	ACL
filters <filter_list>	id	
arguments <token_hash>	name	role.update.name
	description	role.update.description
	__acls_changes__ : assign_acls	role.update.assign_acl
	__acls_changes__ : unassign_acls	role.update.assign_acl
	__roles_changes__ : assign_acls	role.update.assign_role
	__roles_changes__ : unassign_acls	role.update.assign_role

3.3.6.4 Examples

- Input:

```
action=role_update&filters={"id":10000}&arguments={"description":"myrole"}
```

- Output:

```

{
  "status" : 0,
  "message" : "Successful completion",
  "rows" : [],
  "total" : 1
}

```

3.3.7 role_delete

3.3.7.1 Description

Deletes a role

3.3.7.2 ACLs

- role.delete.
- tenant.purge.

3.3.7.3 Parameters

Parameter	Token	ACL
filters <filter_list>	id	

3.3.7.4 Examples

- Input:

```
action=role_delete&filters={"id":10000}
```

- Output:

```
{
  "status" : 0,
  "rows" : [],
  "total" : 1,
  "message" : "Successful completion"
}
```

3.4 Tenants

3.4.1 tenant_get_list

3.4.1.1 Description

Returns the parameters of a list of tenants

3.4.1.2 ACLs

- tenant.see-main.

3.4.1.3 Parameters

Parameter	Token	ACL
filters <filter_list>	id	
	name	
	description	
	block	
	language	
	blocked	tenant.filter.block
	creation_date	tenant.filter.creation-date
	creation_admin_id	tenant.filter.created-by
creation_admin_name	tenant.filter.created-by	

Parameter	Token	ACL
fields <token_array>	id	
	name	
	description	tenant.see.description
	block	tenant.see.blocksize
	language	tenant.see.language
	blocked	tenant.see.block
	creation_date	tenant.see.creation-date
	creation_admin_id	tenant.see.created-by
order_by <order_list>	id	
	name	
	description	tenant.see.description
	block	tenant.see.blocksize
	language	tenant.see.language
	blocked	tenant.see.block
	creation_date	tenant.see.creation-date
	creation_admin_id	tenant.see.created-by
	creation_admin_name	tenant.see.created-by

3.4.1.4 Examples

- Input:

```
action=tenant_get_list
```

- Output:

```
{
  "rows" : [
    {
      "creation_admin_id" : 1,
      "block" : 10,
      "language" : "auto",
      "creation_date" : "2016-02-17T16:14:54",
      "id" : 1,
      "creation_admin_name" : "superadmin",
      "name" : "default",
      "blocked" : 0,
      "description" : "tenant1"
    },
    {
      "block" : 10,
      "language" : "auto",
      "creation_date" : "2016-03-04T09:49:42",
      "id" : 10005,
      "creation_admin_name" : "superadmin",
      "creation_admin_id" : 1,
      "description" : null,
      "blocked" : 0,
      "name" : "demo"
    },
    {
      "creation_admin_name" : "superadmin",
      "block" : 10,
      "language" : "auto",
      "creation_date" : "2016-03-08T14:48:31",
```

```

    "id" : 10006,
    "creation_admin_id" : 1,
    "blocked" : 0,
    "description" : null,
    "name" : "tenantdoc"
  }
],
"message" : "Successful completion",
"status" : 0,
"total" : 3
}

```

3.4.2 tenant_get_details

3.4.2.1 Description

Returns all the parameters of a list of tenants

3.4.2.2 ACLs

- tenant.see-details.

3.4.2.3 Parameters

Parameter	Token	ACL
filters <filter_list>	id	
	name	
	description	
	block	
	language	
	blocked	tenant.filter.block
	creation_date	tenant.filter.creation-date
	creation_admin_id	tenant.filter.created-by
fields <token_array>	creation_admin_name	tenant.filter.created-by
	id	
	name	
	description	tenant.see.description
	block	tenant.see.blocksize
	language	tenant.see.language
	blocked	tenant.see.block
	creation_date	tenant.see.creation-date
order_by <order_list>	creation_admin_id	tenant.see.created-by
	creation_admin_name	tenant.see.created-by
	id	
	name	
	description	tenant.see.description
	block	tenant.see.blocksize
	language	tenant.see.language
	blocked	tenant.see.block
creation_date	tenant.see.creation-date	

3.4.2.4 Examples

- Input:

```
action=tenant_get_details&filters={"id":10006}
```

- Output:

```
{
  "status" : 0,
  "total" : 1,
  "message" : "Successful completion",
  "rows" : [
    {
      "blocked" : 0,
      "description" : null,
      "name" : "tenantdoc",
      "id" : 10006,
      "creation_date" : "2016-03-08T14:48:31",
      "language" : "auto",
      "block" : 10,
      "creation_admin_name" : "superadmin",
      "creation_admin_id" : 1
    }
  ]
}
```

3.4.3 tenant_tiny_list

3.4.3.1 Description

Returns a small subset of parameters of the tenants

3.4.3.2 ACLs

- tenant.see-main.

3.4.3.3 Parameters

Parameter	Token	ACL
filters <filter_list>	id	
	name	
	description	
	block	
	language	
	blocked	tenant.filter.block
	creation_date	tenant.filter.creation-date
	creation_admin_id	tenant.filter.created-by
fields <token_array>	id	
	name	
order_by <order_list>	id	
	name	
	description	tenant.see.description

Parameter	Token	ACL
	block	tenant.see.blocksize
	language	tenant.see.language
	blocked	tenant.see.block
	creation_date	tenant.see.creation-date
	creation_admin_id	tenant.see.created-by
	creation_admin_name	tenant.see.created-by

3.4.3.4 Examples

- Input:

```
action=tenant_tiny_list&order_by={"field":"id","order":"-asc"}
```

- Output:

```
{
  "rows" : [
    {
      "id" : 0,
      "name" : "*"
    },
    {
      "id" : 1,
      "name" : "default"
    },
    {
      "id" : 10005,
      "name" : "demo"
    },
    {
      "id" : 10006,
      "name" : "tenantdoc"
    }
  ],
  "message" : "Successful completion",
  "total" : 4,
  "status" : 0
}
```

3.4.4 tenant_all_ids

3.4.4.1 Description

Returns all tenant ids

3.4.4.2 ACLs

- tenant.-massive.
- tenant.see-main.

3.4.4.3 Parameters

Parameter	Token	ACL
filters <filter_list>	id	
	name	
	description	
	block	
	language	
	blocked	tenant.filter.block
	creation_date	tenant.filter.creation-date
	creation_admin_id	tenant.filter.created-by
fields <token_array>	id	
order_by <order_list>	id	
	name	
	description	tenant.see.description
	block	tenant.see.blocksize
	language	tenant.see.language
	blocked	tenant.see.block
	creation_date	tenant.see.creation-date
	creation_admin_id	tenant.see.created-by
	creation_admin_name	tenant.see.created-by

3.4.4.4 Examples

- Input:

```
action=tenant_all_ids
```

- Output:

```
{
  "status" : 0,
  "total" : 4,
  "message" : "Successful completion",
  "rows" : [
    0,
    1,
    10005,
    10006
  ]
}
```

3.4.5 tenant_create

3.4.5.1 Description

Creates a new tenant

3.4.5.2 ACLs

- tenant.create.

3.4.5.3 Parameters

Parameter	Token	ACL
arguments <token_hash>	name	
	description	
	block	
	language	
	blocked	

3.4.5.4 Examples

- Input:

```
action=tenant_create&arguments={"name":"new_tenant","block":"10","language":"es"}
```

- Output:

```
{
  "total" : 1,
  "status" : 0,
  "rows" : [
    {
      "id" : 10007
    }
  ],
  "message" : "Successful completion"
}
```

3.4.6 tenant_update

3.4.6.1 Description

Updates the parameters of a tenant

3.4.6.2 ACLs

- tenant.update.*

3.4.6.3 Parameters

Parameter	Token	ACL
filters <token_hash>	id	
arguments <token_hash>	name	
	description	tenant.update.description
	block	tenant.update.blocksize
	language	tenant.update.language
	blocked	tenant.update.block

3.4.6.4 Examples

- Input:

```
action=tenant_update&filters={"id":"1"}&arguments={"description":"Main tenant"}
```

- Output:

```
{
  "status" : 0,
  "total" : 1,
  "rows" : [],
  "message" : "Successful completion"
}
```

3.4.7 tenant_delete

3.4.7.1 Description

Deletes one tenant

3.4.7.2 ACLs

- tenant.delete.

3.4.7.3 Parameters

Parameter	Token	ACL
filters <token_hash>	id	

3.4.7.4 Examples

- Input:

```
action=tenant_delete&filters={"id":"10007"}
```

- Output:

```
{
  "status" : 0,
  "total" : 1,
  "rows" : [],
  "message" : "Successful completion"
}
```

3.4.8 mytenant_update

3.4.8.1 Description

Updates the current tenant

3.4.8.2 ACLs

- config.wat.

3.4.8.3 Parameters

Parameter	Token	ACL
arguments <token_hash>	name	
	description	
	block	
	language	

3.4.8.4 Examples

- Input:

```
action=mytenant_update&arguments={"description":"Main tenant"}
```

- Output:

```
{
  "total" : 1,
  "status" : 0,
  "rows" : [],
  "message" : "Successful completion"
}
```

3.5 Administrators

3.5.1 current_admin_setup

3.5.1.1 Description

Returns the setup for the logged administrator

3.5.1.2 ACLs

3.5.1.3 Parameters

Parameter	Token	ACL
-----------	-------	-----

3.5.1.4 Examples

- Input:

```
action=current_admin_setup
```

- Output:

```
{
  "admin_language" : "en",
  "acls" : [
    "administrator.create."
  ],
  "tenant_id" : 0,
  "admin_block" : 10,
  "tenant_name" : "*"
}
```

```

"server_datetime" : "Tue Mar 15 15:12:19 2016",
"tenant_language" : "auto",
"message" : "Successful completion",
"views" : [],
"status" : 0,
"tenant_block" : 10,
"admin_name" : "myadmin",
"admin_id" : 1,
"multitenant" : "1"
}

```

3.5.2 administrator_get_list

3.5.2.1 Description

Returns the parameters of a list of administrators

3.5.2.2 ACLs

- administrator.see-main.

3.5.2.3 Parameters

Parameter	Token	ACL
filters <filter_list>	id	
	name	
	tenant_id	
	tenant_name	
	description	
	block	
	language	
	creation_date	administrator.filter.creation-date
	creation_admin_id	administrator.filter.created-by
creation_admin_name	administrator.filter.created-by	
fields <token_array>	id	
	tenant_id	
	tenant_name	
	name	
	description	administrator.see.description
	roles	administrator.see.roles
	block	
	language	administrator.see.language
	creation_date	administrator.see.creation-date
creation_admin_id	administrator.see.created-by	
creation_admin_name	administrator.see.created-by	
order_by <order_list>	id	
	name	
	tenant_id	
	tenant_name	
	description	administrator.see.description
	block	
	language	administrator.see.language
	creation_date	administrator.see.creation-date
	creation_admin_id	administrator.see.created-by
creation_admin_name	administrator.see.created-by	

3.5.2.4 Examples

- Input:

```
action=administrator_get_list
```

- Output:

```
{
  "rows" : [
    {
      "creation_admin_name" : "superadmin",
      "roles" : {
        "43" : "Root"
      },
      "description" : null,
      "language" : "en",
      "creation_admin_id" : 1,
      "creation_date" : "2016-02-17T16:14:54",
      "tenant_name" : "*",
      "id" : 1,
      "name" : "superadmin",
      "block" : 10,
      "tenant_id" : 0
    },
    {
      "block" : 10,
      "tenant_id" : 1,
      "tenant_name" : "default",
      "id" : 2,
      "name" : "admin",
      "creation_date" : "2016-02-17T16:14:54",
      "creation_admin_id" : 1,
      "language" : "auto",
      "description" : null,
      "roles" : {
        "43" : "Root"
      },
      "creation_admin_name" : "superadmin"
    },
    {
      "description" : null,
      "language" : "auto",
      "roles" : {
        "43" : "Root"
      },
      "creation_admin_name" : "superadmin",
      "creation_date" : "2016-03-04T09:49:45",
      "creation_admin_id" : 1,
      "block" : 10,
      "tenant_id" : 10005,
      "id" : 10004,
      "tenant_name" : "demo",
      "name" : "admin"
    }
  ],
  "status" : 0,
  "total" : 3,
  "message" : "Successful completion"
}
```

3.5.3 administrator_get_details

3.5.3.1 Description

Returns all the parameters of an administrator

3.5.3.2 ACLs

- administrator.see-details.*

3.5.3.3 Parameters

Parameter	Token	ACL
filters <filter_list>	id	
fields <token_array>	id	
	tenant_id	
	tenant_name	
	name	
	description	administrator.see.description
	roles	administrator.see.roles
	block	
	language	administrator.see.language
	creation_date	administrator.see.creation-date
	creation_admin_id	administrator.see.created-by
creation_admin_name	administrator.see.created-by	
order_by <order_list>	id	
	name	
	tenant_id	
	tenant_name	
	description	administrator.see.description
	block	
	language	administrator.see.language
	creation_date	administrator.see.creation-date
	creation_admin_id	administrator.see.created-by
	creation_admin_name	administrator.see.created-by

3.5.3.4 Examples

- Input:

```
action=administrator_get_details&filters={"id":1}
```

- Output:

```
{
  "rows" : [
    {
      "roles" : {
        "43" : "Root "
      },
      "creation_admin_name" : "superadmin",
      "description" : null,
      "language" : "en",
    }
  ]
}
```



```

    "creation_admin_id" : 1,
    "creation_date" : "2016-02-17T16:14:54",
    "id" : 1,
    "name" : "superadmin",
    "tenant_name" : "*",
    "block" : 10,
    "tenant_id" : 0
  }
],
"total" : 1,
"message" : "Successful completion",
"status" : 0
}

```

3.5.4 administrator_tiny_list

3.5.4.1 Description

Returns a small subset of parameters of the administrators

3.5.4.2 ACLs

- log.filter.administrator
- *.filter.created-by

3.5.4.3 Parameters

Parameter	Token	ACL
filters <filter_list>	tenant_id	
fields <token_array>	tenant_id	
	id	
	name	
order_by <order_list>	id	
	name	
	tenant_id	
	tenant_name	
	description	administrator.see.description
	block	
	language	administrator.see.language
	creation_date	administrator.see.creation-date
	creation_admin_id	administrator.see.created-by
creation_admin_name	administrator.see.created-by	

3.5.4.4 Examples

- Input:

```
action=administrator_tiny_list
```

- Output:

```

{
  "rows" : [
    {
      "id" : 2,
      "tenant_name" : "default",
      "name" : "admin"
    },
    {
      "id" : 10004,
      "tenant_name" : "demo",
      "name" : "admin"
    },
    {
      "tenant_name" : "*",
      "id" : 1,
      "name" : "superadmin"
    }
  ],
  "message" : "Successful completion",
  "total" : 3,
  "status" : 0
}

```

3.5.5 administrator_all_ids

3.5.5.1 Description

Returns all administrator IDs

3.5.5.2 ACLs

- administrator.-massive.
- administrator.see-main.

3.5.5.3 Parameters

Parameter	Token	ACL
filters <filter_list>	id	
	name	
	tenant_id	
	tenant_name	
	description	
	block	
	language	
	creation_date	administrator.filter.creation-date
	creation_admin_id	administrator.filter.created-by
creation_admin_name	administrator.filter.created-by	
fields <token_array>	id	
order_by <order_list>	id	
	tenant_id	
	tenant_name	
	name	
	description	administrator.see.description

Parameter	Token	ACL
	block	
	language	administrator.see.language
	creation_date	administrator.see.creation-date
	creation_admin_id	administrator.see.created-by
	creation_admin_name	administrator.see.created-by

3.5.5.4 Examples

- Input:

```
action=administrator_all_ids
```

- Output:

```
{
  "status" : 0,
  "message" : "Successful completion",
  "total" : 3,
  "rows" : [
    2,
    1,
    10004
  ]
}
```

3.5.6 administrator_create

3.5.6.1 Description

Creates administrator

3.5.6.2 ACLs

- administrator.create.

3.5.6.3 Parameters

Parameter	Token	ACL
arguments <token_hash>	tenant_id	
	name	
	password	
	description	
	block	
	language	
	__roles__	administrator.update.assign-role

3.5.6.4 Examples

- Input:

```
action=administrator_create&arguments={"name":"myadmin","password":"123123"}
```

- Output:

```
{
  "rows" : [
    {
      "id" : 10006
    }
  ],
  "total" : 1,
  "message" : "Successful completion",
  "status" : 0
}
```

3.5.7 administrator_update

3.5.7.1 Description

Updates administrator

3.5.7.2 ACLs

- administrator.update.

3.5.7.3 Parameters

Parameter	Token	ACL
filters <filter_list>	id	
	tenant_id	
arguments <token_hash>	name	
	password	administrator.update.password
	description	administrator.update.description
	block	
	language	administrator.update.language
	__roles_changes__ : assign_roles	administrator.update.assign-role
	__roles_changes__ : unassign_roles	administrator.update.assign-role

3.5.7.4 Examples

- Input:

```
action=administrator_update&filters={"id":10006}&arguments={"description":"myadmin"}
```

- Output:

```
{
  "total" : 1,
  "message" : "Successful completion",
  "status" : 0,
  "rows" : []
}
```

3.5.8 administrator_delete

3.5.8.1 Description

Deletes administrator

3.5.8.2 ACLs

- administrator.delete.

3.5.8.3 Parameters

Parameter	Token	ACL
filters <filter_list>	id	
	tenant_id	

3.5.8.4 Examples

- Input:

```
action=administrator_delete&filters={"id":10006}
```

- Output:

```
{
  "message" : "Successful completion",
  "total" : 1,
  "status" : 0,
  "rows" : []
}
```

3.5.9 myadmin_update

3.5.9.1 Description

Updates current administrator

3.5.9.2 ACLs

3.5.9.3 Parameters

Parameter	Token	ACL
arguments <token_hash>	name	
	password	
	description	
	block	
	language	

3.5.9.4 Examples

- Input:

```
action=myadmin_update&arguments={"description":"myadmin"}
```

- Output:

```
{
  "rows" : [],
  "message" : "Successful completion",
  "total" : 1,
  "status" : 0
}
```

3.6 Users

3.6.1 user_get_list

3.6.1.1 Description

Returns the parameters of a list of users

3.6.1.2 ACLs

- user.see-main.
- *.see.user-list

3.6.1.3 Channels

- user_created
- user_deleted
- user_changed
- vm_created
- vm_deleted

3.6.1.4 Parameters

Parameter	Token	ACL
filters <filter_list>	id	
	name	
	tenant_id	
	tenant_name	
	description	user.filter.description
	blocked	user.filter.block
	creation_date	user.filter.creation-date
	creation_admin_id	user.filter.created-by
	creation_admin_name	user.filter.created-by
fields <token_array>	id	
	name	
	tenant_id	
	tenant_name	
	description	user.see.description

Parameter	Token	ACL
	blocked	user.see.block
	number_of_vms	user.see.vms-info
	number_of_vms_connected	user.see.vm-list-state
	properties	user.see.properties
	creation_date	user.see.creation_date
	creation_admin_id	user.see.created_by
	creation_admin_name	user.see.created_by
order_by <order_list>	id	
	name	
	tenant_id	
	tenant_name	
	description	user.see.description
	blocked	user.see.block
	creation_date	user.see.creation_date
	creation_admin_id	user.see.created_by
	creation_admin_name	user.see.created_by

3.6.1.5 Examples

- Input:

```
action=user_get_list
```

- Output:

```
{
  "total" : 2,
  "message" : "Successful completion",
  "rows" : [
    {
      "number_of_vms_connected" : "0",
      "id" : 10005,
      "tenant_name" : "demo",
      "creation_admin_id" : 1,
      "description" : null,
      "creation_admin_name" : "superadmin",
      "creation_date" : "2016-03-04T09:49:47",
      "name" : "user",
      "tenant_id" : 10005,
      "properties" : {},
      "number_of_vms" : "1",
      "blocked" : 0
    },
    {
      "creation_admin_name" : "superadmin",
      "number_of_vms_connected" : "0",
      "id" : 10001,
      "tenant_name" : "default",
      "creation_admin_id" : 1,
      "description" : null,
      "properties" : {},
      "blocked" : 0,
      "number_of_vms" : "2",
      "name" : "zarzuelo",
      "creation_date" : "2016-03-03T15:18:38",
      "tenant_id" : 1
    }
  ]
}
```

```

    }
  ],
  "status" : 0
}

```

3.6.2 user_get_details

3.6.2.1 Description

Returns all the parameters of an user

3.6.2.2 ACLs

- user.see-details.

3.6.2.3 Channels

- user_created
- user_deleted
- user_changed
- vm_created
- vm_deleted

3.6.2.4 Parameters

Parameter	Token	ACL
filters <filter_list>	id	
fields <token_array>	id	
	name	
	tenant_id	
	tenant_name	
	description	user.see.description
	blocked	user.see.block
	number_of_vms	user.see.vms-info
	number_of_vms_connected	user.see.vm-list-state
	properties	user.see.properties
	creation_date	user.see.creation_date
	creation_admin_id	user.see.created_by
creation_admin_name	user.see.created_by	
order_by <order_list>	id	
	name	
	tenant_id	
	tenant_name	
	description	user.see.description
	blocked	user.see.block
	creation_date	user.see.creation_date
	creation_admin_id	user.see.created_by
creation_admin_name	user.see.created_by	

3.6.2.5 Examples

- Input:

```
action=user_get_details&filters={"id":10005}
```

- Output:

```
{
  "message" : "Successful completion",
  "total" : 1,
  "rows" : [
    {
      "creation_admin_name" : "superadmin",
      "description" : null,
      "id" : 10005,
      "creation_admin_id" : 1,
      "tenant_name" : "demo",
      "number_of_vms_connected" : "0",
      "number_of_vms" : "1",
      "blocked" : 0,
      "properties" : {},
      "tenant_id" : 10005,
      "name" : "user",
      "creation_date" : "2016-03-04T09:49:47"
    }
  ],
  "status" : 0
}
```

3.6.3 user_tiny_list

3.6.3.1 Description

Returns a small subset of parameters of the list of users

3.6.3.2 ACLs

- vm.create.
- vm.filter.user
- tenant.purge

3.6.3.3 Parameters

Parameter	Token	ACL
filters <filter_list>	tenant_id	
fields <token_array>	tenant_name	
	id	
	name	
order_by <order_list>	id	
	name	
	tenant_id	

Parameter	Token	ACL
	tenant_name	
	description	user.see.description
	blocked	user.see.block
	creation_date	user.see.creation_date
	creation_admin_id	user.see.created_by
	creation_admin_name	user.see.created_by

3.6.3.4 Examples

- Input:

```
action=user_tiny_list
```

- Output:

```
{
  "total" : 2,
  "message" : "Successful completion",
  "rows" : [
    {
      "name" : "user",
      "id" : 10005,
      "tenant_name" : "demo"
    },
    {
      "tenant_name" : "default",
      "id" : 10001,
      "name" : "zarzuelo"
    }
  ],
  "status" : 0
}
```

3.6.4 user_all_ids

3.6.4.1 Description

Returns all users IDs

3.6.4.2 ACLs

- host.-massive.
- host.see-main.

3.6.4.3 Parameters

Parameter	Token	ACL
filters	id	
<filter_list>	name	user.filter.name
	description	
	tenant_id	
	tenant_name	

Parameter	Token	ACL
	blocked	
	creation_date	
	creation_admin_id	
	creation_admin_name	
fields <token_array>	id	
order_by <order_list>	id	
	name	
	tenant_id	
	tenant_name	
	description	user.see.description
	blocked	user.see.block
	creation_date	user.see.creation_date
	creation_admin_id	user.see.created_by
	creation_admin_name	user.see.created_by

3.6.4.4 Examples

- Input:

```
action=user_all_ids
```

- Output:

```
{
  "status" : 0,
  "rows" : [
    10005,
    10001
  ],
  "message" : "Successful completion",
  "total" : 2
}
```

3.6.5 user_get_state

3.6.5.1 Description

Returns user state

3.6.5.2 ACLs

- user.see.vm-list-state

3.6.5.3 Parameters

Parameter	Token	ACL
filters <filter_list>	id	
fields <token_array>	number_of_vms_connected	user.see.vms-info
order_by <order list>	id	

Parameter	Token	ACL
	name	
	tenant_id	
	tenant_name	
	description	user.see.description
	blocked	user.see.block
	creation_date	user.see.creation_date
	creation_admin_id	user.see.created_by
	creation_admin_name	user.see.created_by

3.6.5.4 Examples

- Input:

```
action=host_get_state&filters={"id":10000}
```

- Output:

```
{
  "rows" : [
    {
      "number_of_vms_connected" : null
    }
  ],
  "status" : 0,
  "total" : 1,
  "message" : "Successful completion"
}
```

3.6.6 user_create

3.6.6.1 Description

Creates an user

3.6.6.2 ACLs

- user.create.

3.6.6.3 Parameters

Parameter	Token	ACL
arguments <token_hash>	tenant_id	
	name	
	password	
	description	
	blocked	
	__properties__	user.create.properties

3.6.6.4 Examples

- Input:

```
action=host_create&arguments={"name":"localhost","address":"10.3.15.1"}
```

- Output:

```
{
  "message" : "Successful completion",
  "total" : 1,
  "rows" : [
    {
      "id" : 10000
    }
  ],
  "status" : 0
}
```

3.6.7 user_update

3.6.7.1 Description

Updates an user

3.6.7.2 ACLs

- user.update.*

3.6.7.3 Parameters

Parameter	Token	ACL
arguments <token_hash>	name	
	password	user.update.password
	description	user.update.description
	address	user.update.address
	blocked	user.update.blocked
	__properties_changes__ : set	user.update.properties
	__properties_changes__ : delete	user.update.properties
filters <filter_list>	id	

3.6.7.4 Examples

- Input:

```
action=user_update&arguments={"description":"User description"}&filters={"id":10000}
```

- Output:

```
{
  "status" : 0,
  "rows" : [],
}
```

```
"total" : 1,  
"message" : "Successful completion"  
}
```

3.6.8 user_delete

3.6.8.1 Description

Deletes an user

3.6.8.2 ACLs

- user.delete.
- tenant.purge.

3.6.8.3 Parameters

Parameter	Token	ACL
filters <filter_list>	id	

3.6.8.4 Examples

- Input:

```
action=user_delete&filters={"id":10000}
```

- Output:

```
{  
  "status" : 0,  
  "rows" : [],  
  "total" : 1,  
  "message" : "Successful completion"  
}
```

3.7 Hosts

3.7.1 host_get_list

3.7.1.1 Description

Returns the parameters of a list of hosts

3.7.1.2 ACLs

- host.see-main.

3.7.1.3 Channels

- host_created
- host_deleted
- host_changed
- vm_created
- vm_deleted

3.7.1.4 Parameters

Parameter	Token	ACL
filters <filter_list>	id	
	name	
	description	
	address	
	frontend	
	backend	
	vm_id	host.filter.vm
	state	host.filter.state
	blocked	host.filter.block
	creation_date	host.filter.creation-date
	creation_admin_id	host.filter.created-by
creation_admin_name	host.filter.created-by	
fields <token_array>	id	
	name	
	description	host.see.description
	address	host.see.address
	frontend	
	backend	
	state	host.see.state
	load	
	blocked	host.see.block
	number_of_vms_connected	host.see.vms-info
	properties	host.see.properties
	creation_date	host.see.creation-date
	creation_admin_id	host.see.created-by
	creation_admin_name	host.see.created-by
order_by <order_list>	id	
	name	
	description	host.see.description
	address	host.see.address
	state	host.see.state
	blocked	host.see.block
	creation_date	host.see.creation-date
	creation_admin_id	host.see.created-by
creation_admin_name	host.see.created-by	

3.7.1.5 Examples

- Input:

```
action=host_get_list
```

- Output:

```
{
  "rows" : [
    {
      "frontend" : 1,
      "blocked" : 0,
      "name" : "localhost",
      "id" : 10000,
      "description" : null,
      "creation_admin_id" : 1,
      "backend" : 1,
      "address" : "10.3.15.1",
      "creation_date" : "2016-03-03T14:06:14",
      "number_of_vms_connected" : "0",
      "creation_admin_name" : "superadmin",
      "state" : "running",
      "load" : null,
      "properties" : {}
    }
  ],
  "message" : "Successful completion",
  "status" : 0,
  "total" : 1
}
```

3.7.2 host_get_details

3.7.2.1 Description

Returns all the parameters of a list of hosts

3.7.2.2 ACLs

- host.see-details.
- host.see-main.

3.7.2.3 Channels

- host_created
- host_deleted
- host_changed
- vm_created
- vm_deleted

3.7.2.4 Parameters

Parameter	Token	ACL
filters <filter_list>	id	
fields <token_array>	id	
	name	

Parameter	Token	ACL
	description	host.see.description
	address	host.see.address
	frontend	
	backend	
	state	host.see.state
	load	
	blocked	host.see.block
	number_of_vms_connected	host.see.vms-info
	properties	host.see.properties
	creation_date	host.see.creation-date
	creation_admin_id	host.see.created-by
creation_admin_name	host.see.created-by	
order_by <order_list>	id	
	name	
	description	host.see.description
	address	host.see.address
	state	host.see.state
	blocked	host.see.block
	creation_date	host.see.creation-date
	creation_admin_id	host.see.created-by
creation_admin_name	host.see.created-by	

3.7.2.5 Examples

- Input:

```
action=host_get_details&filters={"id":10000}
```

- Output:

```
{
  "rows" : [
    {
      "creation_date" : "2016-03-03T14:06:14",
      "number_of_vms_connected" : "0",
      "creation_admin_id" : 1,
      "description" : null,
      "backend" : 1,
      "address" : "10.3.15.1",
      "id" : 10000,
      "frontend" : 1,
      "blocked" : 0,
      "name" : "localhost",
      "properties" : {},
      "load" : null,
      "creation_admin_name" : "superadmin",
      "state" : "running"
    }
  ],
  "message" : "Successful completion",
  "total" : 1,
  "status" : 0
}
```

3.7.3 host_tiny_list

3.7.3.1 Description

Returns a small subset of parameters of the list of hosts

3.7.3.2 ACLs

- vm.filter.host

3.7.3.3 Parameters

Parameter	Token	ACL
filters <filter_list>		
fields <token_array>	id	
	name	
order_by <order_list>	id	
	name	
	description	host.see.description
	address	host.see.address
	state	host.see.state
	blocked	host.see.block
	creation_date	host.see.creation-date
	creation_admin_id	host.see.created-by
creation_admin_name	host.see.created-by	

3.7.3.4 Examples

- Input:

```
action=host_tiny_list
```

- Output:

```
{
  "total" : 1,
  "status" : 0,
  "rows" : [
    {
      "name" : "localhost",
      "id" : 10000
    }
  ],
  "message" : "Successful completion"
}
```

3.7.4 host_all_ids

3.7.4.1 Description

Returns all host IDs

3.7.4.2 ACLs

- host.-massive.
- host.see-main.

3.7.4.3 Parameters

Parameter	Token	ACL
filters <filter_list>	id	
	name	
	description	
	address	
	frontend	
	backend	
	vm_id	host.filter.vm
	state	host.filter.state
	blocked	host.filter.block
	creation_date	host.filter.creation-date
	creation_admin_id	host.filter.created-by
creation_admin_name	host.filter.created-by	
fields <token_array>	id	
order_by <order_list>	id	
	name	
	description	host.see.description
	address	host.see.address
	state	host.see.state
	blocked	host.see.block
	creation_date	host.see.creation-date
	creation_admin_id	host.see.created-by
creation_admin_name	host.see.created-by	

3.7.4.4 Examples

- Input:

```
action=host_all_ids
```

- Output:

```
{
  "status" : 0,
  "total" : 1,
  "message" : "Successful completion",
  "rows" : [
    10000
  ]
}
```

3.7.5 host_get_state

3.7.5.1 Description

Returns host state

3.7.5.2 ACLs

- host.see.vm-list-state

3.7.5.3 Parameters

Parameter	Token	ACL
filters <filter_list>	id	
fields <token_array>	number_of_vms_connected	host.see.vms-info
order_by <order_list>	id	
	name	
	description	host.see.description
	address	host.see.address
	state	host.see.state
	blocked	host.see.block
	creation_date	host.see.creation-date
	creation_admin_id	host.see.created-by
creation_admin_name	host.see.created-by	

3.7.5.4 Examples

- Input:

```
action=host_get_state&filters={"id":10000}
```

- Output:

```
{
  "total" : 1,
  "status" : 0,
  "message" : "Successful completion",
  "rows" : [
    {
      "number_of_vms_connected" : 1
    }
  ]
}
```

3.7.6 host_create

3.7.6.1 Description

Creates a host

3.7.6.2 ACLs

- host.create.*

3.7.6.3 Parameters

Parameter	Token	ACL
arguments <token_hash>	name	
	description	
	address	
	frontend	
	backend	
	state	
	blocked	
	__properties__	host.create.properties

3.7.6.4 Examples

- Input:

```
action=host_create&arguments={"name":"localhost","address":"10.3.15.1"}
```

- Output:

```
{
  "message" : "Successful completion",
  "rows" : [
    {
      "id" : 10000
    }
  ],
  "total" : 1,
  "status" : 0
}
```

3.7.7 host_update

3.7.7.1 Description

Updates a host

3.7.7.2 ACLs

- host.update.*

3.7.7.3 Parameters

Parameter	Token	ACL
arguments <token_hash>	name	host.update.name
	description	host.update.description
	address	host.update.address
	blocked	host.update.blocked
	__properties_changes__ : set	host.update.properties
	__properties_changes__ : delete	host.update.properties
filters <filter_list>	id	

3.7.7.4 Examples

- Input:

```
action=host_update&arguments={"description":"Host description"}&filters={"id":10000}
```

- Output:

```
{
  "total" : 1,
  "status" : 0,
  "rows" : [],
  "message" : "Successful completion"
}
```

3.7.8 host_delete

3.7.8.1 Description

Deletes a host

3.7.8.2 ACLs

- host.delete.

3.7.8.3 Parameters

Parameter	Token	ACL
filters <filter_list>	id	

3.7.8.4 Examples

- Input:

```
action=host_delete&filters={"id":10000}
```

- Output:

```
{
  "total" : 1,
  "status" : 0,
  "message" : "Successful completion",
  "rows" : []
}
```

3.8 OSFs

3.8.1 osf_get_list

3.8.1.1 Description

Returns the parameters of a list of OSFs

3.8.1.2 ACLs

- osf.see-main.

3.8.1.3 Channels

- vm_created
- vm_deleted
- di_created
- di_deleted

3.8.1.4 Parameters

Parameter	Token	ACL
filters <filter_list>	id	
	name	
	tenant_id	
	tenant_name	
	description	
	overlay	
	user_storage	
	memory	
	vm_id	osf.filter.vm
	di_id	osf.filter.di
	creation_date	osf.filter.creation-date
	creation_admin_id	osf.filter.created-by
	creation_admin_name	osf.filter.created-by
fields <token_array>	id	
	name	
	tenant_id	
	tenant_name	
	description	osf.see.description
	overlay	osf.see.overlay
	user_storage	osf.see.user-storage
	memory	osf.see.memory
	number_of_vms	osf.see.vms-info
	number_of_dis	osf.see.dis-info
	properties	osf.see.properties
	creation_date	osf.see.creation-date
	creation_admin_id	osf.see.created-by
creation_admin_name	osf.see.created-by	
order_by <order_list>	id	
	name	
	tenant_id	
	tenant_name	

Parameter	Token	ACL
	description	osf.see.description
	overlay	osf.see.overlay
	user_storage	osf.see.user-storage
	memory	osf.see.memory
	creation_date	osf.see.creation-date
	creation_admin_id	osf.see.created-by
	creation_admin_name	osf.see.created-by

3.8.1.5 Examples

- Input:

```
action=osf_get_list
```

- Output:

```
{
  "rows" : [
    {
      "creation_date" : "2016-03-04T09:49:48",
      "tenant_id" : 10005,
      "name" : "OSF_Standard",
      "creation_admin_name" : "superadmin",
      "memory" : 256,
      "user_storage" : 0,
      "description" : null,
      "number_of_vms" : "1",
      "id" : 10003,
      "tenant_name" : "demo",
      "creation_admin_id" : 1,
      "properties" : {},
      "number_of_dis" : "1",
      "overlay" : 1
    },
    {
      "name" : "zOSF",
      "tenant_id" : 1,
      "creation_date" : "2016-03-03T15:19:03",
      "number_of_vms" : "2",
      "description" : null,
      "user_storage" : 0,
      "memory" : 256,
      "creation_admin_name" : "superadmin",
      "properties" : {},
      "creation_admin_id" : 1,
      "tenant_name" : "default",
      "id" : 10000,
      "overlay" : 1,
      "number_of_dis" : "1"
    }
  ],
  "message" : "Successful completion",
  "total" : 2,
  "status" : 0
}
```


3.8.2 osf_get_details

3.8.2.1 Description

Returns all the parameters of an OSF

3.8.2.2 ACLs

- osf.see-details.

3.8.2.3 Channels

- vm_created
- vm_deleted
- vm_changed
- di_created
- di_deleted

3.8.2.4 Parameters

Parameter	Token	ACL
filters <filter_list>	id	
	tenant_id	
fields <token_array>	id	
	name	
	tenant_id	
	tenant_name	
	description	osf.see.description
	overlay	osf.see.overlay
	user_storage	osf.see.user-storage
	memory	osf.see.memory
	number_of_vms	osf.see.vms-info
	number_of_dis	osf.see.dis-info
	properties	osf.see.properties
	creation_date	osf.see.creation-date
	creation_admin_id	osf.see.created-by
creation_admin_name	osf.see.created-by	
order_by <order_list>	id	
	name	
	tenant_id	
	tenant_name	
	description	osf.see.description
	overlay	osf.see.overlay
	user_storage	osf.see.user-storage
	memory	osf.see.memory
	creation_date	osf.see.creation-date
	creation_admin_id	osf.see.created-by
creation_admin_name	osf.see.created-by	

3.8.2.5 Examples

- Input:

```
action=osf_get_details&filters={"id":10000}
```

- Output:

```
{}
```

3.8.3 osf_tiny_list

3.8.3.1 Description

Returns a subset of parameters of the OSFs

3.8.3.2 ACLs

- di.create.osf
- vm.create.osf
- di.filter.osf
- vm.filter.osf

3.8.3.3 Parameters

Parameter	Token	ACL
filters <filter_list>	tenant_id	
fields <token_array>	id	
	name	
	tenant_name	
order_by <order_list>	id	
	name	
	tenant_id	
	tenant_name	
	description	osf.see.description
	overlay	osf.see.overlay
	user_storage	osf.see.user-storage
	memory	osf.see.memory
	creation_date	osf.see.creation-date
	creation_admin_id	osf.see.created-by
creation_admin_name	osf.see.created-by	

3.8.3.4 Examples

- Input:

```
action=osf_tiny_list&filters={"id":10000}
```

- Output:

```
{}
```

3.8.4 osf_all_ids

3.8.4.1 Description

Returns all the ids of the OSFs

3.8.4.2 ACLs

- osf.see-main.
- osf.-massive.

3.8.4.3 Parameters

Parameter	Token	ACL
filters <filter_list>	id	
	name	
	tenant_id	
	tenant_name	
	description	
	overlay	
	user_storage	
	memory	
	vm_id	osf.filter.vm
	di_id	osf.filter.di
	creation_date	osf.filter.creation-date
	creation_admin_id	osf.filter.created-by
creation_admin_name	osf.filter.created-by	
fields <token_array>	id	
order_by <order_list>	id	
	name	
	tenant_id	
	tenant_name	
	description	osf.see.description
	overlay	osf.see.overlay
	user_storage	osf.see.user-storage
	memory	osf.see.memory
	creation_date	osf.see.creation-date
	creation_admin_id	osf.see.created-by
creation_admin_name	osf.see.created-by	

3.8.4.4 Examples

- Input:

```
action=osf_all_ids
```

- Output:

```
{}
```

3.8.5 osf_create

3.8.5.1 Description

Creates a OSF

3.8.5.2 ACLs

- osf.create.

3.8.5.3 Parameters

Parameter	Token	ACL
arguments <token_hash>	name	
	description	
	overlay	
	user_storage	osf.create.user-storage
	memory	osf.create.memory
	tenant_id	
	__properties__	osf.create.properties

3.8.5.4 Examples

- Input:

```
action=osf_create&arguments={"name":"osf"}
```

- Output:

```
{
  "status" : 0,
  "total" : 1,
  "message" : "Successful completion",
  "rows" : [
    {
      "id" : 10005
    }
  ]
}
```

3.8.6 osf_update

3.8.6.1 Description

Updates the parameters of a OSF

3.8.6.2 ACLs

- osf.update.

3.8.6.3 Parameters

Parameter	Token	ACL
filters <filter_list>	id	
	tenant_id	
arguments <token_hash>	name	osf.update.name
	description	osf.update.description
	overlay	
	user_storage	osf.update.user-storage
	memory	osf.update.memory
	tenant_id	
	__properties_changes__ : set	osf.update.properties
	__properties_changes__ : delete	osf.update.properties

3.8.6.4 Examples

- Input:

```
action=osf_update&filters={"id":10000}&arguments={"memory":100}
```

- Output:

```
{
  "message" : "Successful completion",
  "rows" : [],
  "status" : 0,
  "total" : 1
}
```

3.8.7 osf_delete

3.8.7.1 Description

Deletes a OSF

3.8.7.2 ACLs

- osf.delete.

3.8.7.3 Parameters

Parameter	Token	ACL
filters <filter_list>	id	
	tenant_id	

3.8.7.4 Examples

- Input:

```
action=osf_delete&filters={"id":10000}
```

- Output:

```
{
  "rows" : [],
  "message" : "Successful completion",
  "total" : 1,
  "status" : 0
}
```

3.9 Disk Images

3.9.1 di_get_list

3.9.1.1 Description

Returns the parameters of a list of Disk Images

3.9.1.2 ACLs

- di.see-main.
- *.see.di-list

3.9.1.3 Parameters

Parameter	Token	ACL	
filters <filter_list>	id		
	disk_image		
	tenant_id		
	tenant_name		
	description		
	version		
	osf_id	di.filter.osf osf.see.di-list	
	osf_name	di.filter.osf	
	blocked		
	tag		
	creation_date		
	creation_admin_id		
	creation_admin_name		
fields <token_array>	id		
	disk_image		
	tenant_id		
	tenant_name		
	description	di.see.description	
	version	di.see.version	
	osf_id	di.see.osf	
	osf_name	di.see.osf	
	blocked	di.see.block	
	tags		di.see.tags
			di.see.head
			di.see.default
			*.see.di-list-tags
		*.see.di-list-head	

Parameter	Token	ACL
		*.see.di-list-default
	properties	di.see.properties
	creation_date	di.see.created-by
	creation_admin_id	di.see.created-by
	creation_admin_name	di.see.created-date
order_by <order_list>	id	
	disk_image	
	tenant_id	
	tenant_name	
	description	di.see.description
	version	di.see.version
	osf_id	di.see.osf
	osf_name	di.see.osf
	blocked	di.see.block
	creation_date	di.see.created-by
	creation_admin_id	di.see.created-by
	creation_admin_name	di.see.created-date

3.9.1.4 Examples

- Input:

```
action=di_get_list
```

- Output:

```
{
  "rows" : [
    {
      "creation_date" : "2016-03-04T09:50:42",
      "disk_image" : "10003-Desktop_Standard.tar.gz",
      "id" : 10003,
      "tenant_id" : 10005,
      "tenant_name" : "demo",
      "creation_admin_id" : 1,
      "osf_name" : "OSF_Standard",
      "version" : "2016-03-04-000",
      "description" : null,
      "osf_id" : 10003,
      "properties" : {},
      "creation_admin_name" : "superadmin",
      "blocked" : 0,
      "tags" : [
        {
          "fixed" : true,
          "id" : 10010,
          "tag" : "2016-03-04-000"
        },
        {
          "fixed" : false,
          "tag" : "default",
          "id" : 10012
        },
        {
          "fixed" : false,
          "tag" : "head",

```

```

        "id" : 10011
      }
    ]
  }
],
"status" : 0,
"message" : "Successful completion",
"total" : 1
}

```

3.9.2 di_get_details

3.9.2.1 Description

Returns all the parameters of a Disk Image

3.9.2.2 ACLs

- di.see-details.

3.9.2.3 Parameters

Parameter	Token	ACL	
filters <filter_list>	id		
	tenant_id		
fields <token_array>	id		
	tenant_id		
	tenant_name		
	disk_image		
	description	di.see.description	
	version	di.see.version	
	osf_id	di.see.osf	
	osf_name	di.see.osf	
	blocked	di.see.block	
	tags	di.see.tags	
		di.see.head	
		di.see.default	
		*.see.di-list-tags	
		*.see.di-list-head	
	*.see.di-list-default		
properties	di.see.properties		
creation_date	di.see.created-by		
creation_admin_id	di.see.created-by		
creation_admin_name	di.see.created-date		
order_by <order_list>	id		
	disk_image		
	tenant_id		
	tenant_name		
	description	di.see.description	
	version	di.see.version	
	osf_id	di.see.osf	
	osf_name	di.see.osf	
	blocked	di.see.block	
	creation_date	di.see.created-by	
	creation_admin_id	di.see.created-by	
	creation_admin_name	di.see.created-date	

3.9.2.4 Examples

- Input:

```
action=di_get_details&filters={"id":10003}
```

- Output:

```
{
  "status" : 0,
  "rows" : [
    {
      "disk_image" : "10003-Desktop_Standard.tar.gz",
      "creation_date" : "2016-03-04T09:50:42",
      "properties" : {},
      "osf_id" : 10003,
      "osf_name" : "OSF_Standard",
      "creation_admin_id" : 1,
      "description" : null,
      "version" : "2016-03-04-000",
      "tenant_id" : 10005,
      "id" : 10003,
      "tenant_name" : "demo",
      "tags" : [
        {
          "tag" : "2016-03-04-000",
          "id" : 10010,
          "fixed" : true
        },
        {
          "fixed" : false,
          "tag" : "default",
          "id" : 10012
        },
        {
          "tag" : "head",
          "id" : 10011,
          "fixed" : false
        }
      ],
      "blocked" : 0,
      "creation_admin_name" : "superadmin"
    }
  ],
  "total" : 1,
  "message" : "Successful completion"
}
```

3.9.3 di_all_ids

3.9.3.1 Description

Returns all the ids of the Disk Images

3.9.3.2 ACLs

- di.-massive.
- di.see-main.
- *.see.di-list

3.9.3.3 Parameters

Parameter	Token	ACL
filters <filter_list>	id	
	disk_image	di.filter.disk-image
	description	
	version	
	osf_id	di.filter.osf osf.see.di-list
	osf_name	di.filter.osf
	osf	di.filter.osf
	tenant_id	
	tenant_name	
	blocked	
	tag	
	creation_date	
	creation_admin_id	
	creation_admin_name	
fields <token_array>	id	
order_by <order_list>	id	
	tenant_id	
	tenant_name	
	disk_image	
	description	di.see.description
	version	di.see.version
	osf_id	di.see.osf
	osf_name	di.see.osf
	blocked	di.see.block
	creation_date	di.see.created-by
	creation_admin_id	di.see.created-by
	creation_admin_name	di.see.created-date

3.9.3.4 Examples

- Input:

```
action=di_all_ids
```

- Output:

```
{
  "total" : 1,
  "message" : "Successful completion",
  "status" : 0,
  "rows" : [
    10003
  ]
}
```

3.9.4 di_tiny_list

3.9.4.1 Description

Returns a subset of parameters of a list of Disk Images

3.9.4.2 ACLs

- osf.filter.di
- tenant.purge.

3.9.4.3 Parameters

Parameter	Token	ACL
filters <filter_list>	tenant_id	
fields <token_array>	id	
	disk_image	
	tenant_name	
order_by <order_list>	id	
	tenant_id	
	tenant_name	
	disk_image	
	description	di.see.description
	version	di.see.version
	osf_id	di.see.osf
	osf_name	di.see.osf
	blocked	di.see.block
	creation_date	di.see.created-by
	creation_admin_id	di.see.created-by
creation_admin_name	di.see.created-date	

3.9.4.4 Examples

- Input:

```
action=di_tiny_list
```

- Output:

```
{
  "rows" : [
    {
      "tenant_name" : "demo",
      "id" : 10003,
      "disk_image" : "10003-Desktop_Standard.tar.gz"
    }
  ],
  "status" : 0,
  "message" : "Successful completion",
  "total" : 1
}
```

3.9.5 tag_get_list

3.9.5.1 Description

Returns the list of disk images tags

3.9.5.2 ACLs

- vm.create.
- vm.update.

3.9.5.3 Parameters

Parameter	Token	ACL
filters <filter_list>	id	
	name	
	osf_id	
	di_id	
	tenant_id	
	tenant_name	
fields <token_array>	id	
	name	
	osf_id	
	di_id	
order_by <order_list>	id	
	name	
	tenant_id	
	tenant_name	
	osf_id	
	di_id	

3.9.5.4 Examples

- Input:

```
action=tag_get_list
```

- Output:

```
{
  "status" : 0,
  "rows" : [
    {
      "osf_id" : 10003,
      "id" : 10012,
      "tenant_id" : 10005,
      "tenant_name" : "demo",
      "di_id" : 10003,
      "name" : "default"
    },
    {
      "name" : "head",
      "di_id" : 10003,
      "tenant_name" : "demo",
      "id" : 10011,
      "tenant_id" : 10005,
      "osf_id" : 10003
    },
    {
      "di_id" : 10003,
      "name" : "2016-03-04-000",
```

```

    "osf_id" : 10003,
    "tenant_id" : 10005,
    "id" : 10010,
    "tenant_name" : "demo"
  }
],
"total" : 3,
"message" : "Successful completion"
}

```

3.9.6 tag_tiny_list

3.9.6.1 Description

Returns a subset of parameters of a list of disk images tags

3.9.6.2 ACLs

- vm.create.
- vm.update.

3.9.6.3 Parameters

Parameter	Token	ACL
filters <filter_list>	tenant_id	
	osf_id	
fields <token_array>	id	
	name	
order_by <order_list>	id	
	name	
	osf_id	
	di_id	

3.9.6.4 Examples

- Input:

```
action=tag_tiny_list
```

- Output:

```

{
  "status" : 0,
  "rows" : [
    {
      "id" : 10010,
      "name" : "2016-03-04-000"
    },
    {
      "id" : 10012,
      "name" : "default"
    },
    {

```

```

    "name" : "head",
    "id" : 10011
  }
],
"total" : 3,
"message" : "Successful completion"
}

```

3.9.7 di_create

3.9.7.1 Description

Creates a Disk Image

3.9.7.2 ACLs

- di.create.

3.9.7.3 Parameters

Parameter	Token	ACL
arguments <token_hash>	disk_image	
	blocked	
	description	
	version	
	osf_id	
	__properties__	di.create.properties
	__tags__	di.create.tags
		di.create.default

3.9.7.4 Examples

- Input:

```
action=di_create
```

- Output:

```
{}
```

3.9.8 di_update

3.9.8.1 Description

Updates a Disk Image

3.9.8.2 ACLs

- di.update.

3.9.8.3 Parameters

Parameter	Token	ACL	
filters <filter_list>	id		
	tenant_id		
arguments <token_hash>	blocked	di.update.block	
	description	di.update.description	
	__properties_changes__ : set	di.update.properties	
	__properties_changes__ : delete	di.update.properties	
	__tags_changes__ : create		di.update.tags
			di.update.defaults
			osf.see.di-list-default-update
	__tags_changes__ : delete		di.update.tags
			di.update.defaults
			osf.see.di-list-default-update

3.9.8.4 Examples

- Input:

```
action=di_update
```

- Output:

```
{
  "rows" : [
    {
      "disk_image" : "10003-Desktop_Standard.tar.gz",
      "creation_date" : "2016-03-04T09:50:42",
      "osf_id" : 10003,
      "properties" : {},
      "creation_admin_id" : 1,
      "osf_name" : "OSF_Standard",
      "version" : "2016-03-04-000",
      "description" : null,
      "id" : 10003,
      "tenant_id" : 10005,
      "tenant_name" : "demo",
      "tags" : [
        {
          "tag" : "2016-03-04-000",
          "id" : 10010,
          "fixed" : true
        },
        {
          "id" : 10012,
          "tag" : "default",
          "fixed" : false
        },
        {
          "id" : 10011,
          "tag" : "head",
          "fixed" : false
        }
      ]
    },
    {
      "blocked" : 0,
      "creation_admin_name" : "superadmin"
    }
  ]
}
```

```

    }
  ],
  "status" : 0,
  "message" : "Successful completion",
  "total" : 1
}

```

3.9.9 di_delete

3.9.9.1 Description

Deletes a Disk Image

3.9.9.2 ACLs

- di.delete.

3.9.9.3 Parameters

Parameter	Token	ACL
filters	id	
<filter_list>	tenant_id	

3.9.9.4 Examples

- Input:

```
action=di_delete
```

- Output:

```
{}
```

3.9.10 dis_in_staging

3.9.10.1 Description

Returns the whole list of disk images in staging directory

3.9.10.2 ACLs

- di.create.

3.9.10.3 Parameters

Parameter	Token	ACL
-----------	-------	-----

3.9.10.4 Examples

- Input:

```
action=dis_in_staging
```

- Output:

```
{
  "message" : "Successful completion",
  "total" : 4,
  "rows" : [
    {
      "name" : "image-empty.tar.gz"
    },
    {
      "name" : "Desktop_Empty.tar.gz"
    },
    {
      "name" : "ubuntu-13.04-i386-qvd.tar.gz"
    },
    {
      "name" : "Desktop_Standard.tar.gz"
    }
  ],
  "status" : 0
}
```

3.10 Configuration

3.10.1 config_get

3.10.1.1 Description

Returns all the configuration values

3.10.1.2 ACLs

- config.qvd.
- tenant.purge.

3.10.1.3 Parameters

Parameter	Token	ACL
filters <filter_list>	key	
	tenant_id	
	operative_value	
	default_value	
	is_default	
order_by <order_list>	key	
fields <token_array>	key	
	tenant_id	
	operative_value	
	default_value	
	is_default	
info@theqvd.com		

3.10.1.4 Examples

- Input:

```
action=config_get&filters={"key":"wat"}&order_by={"order":"-desc"}
```

- Output:

```
{
  "total" : 7,
  "status" : 0,
  "rows" : [
    {
      "default_value" : null,
      "is_default" : 0,
      "key" : "wat.wat.public.fail",
      "operative_value" : "fail"
    },
    {
      "default_value" : null,
      "is_default" : 0,
      "operative_value" : "https://myqvd.theqvd.com",
      "key" : "wat.public.link"
    },
    {
      "is_default" : 0,
      "operative_value" : "1",
      "key" : "wat.multitenant",
      "default_value" : "0"
    },
    {
      "is_default" : 1,
      "key" : "wat.log.filename",
      "operative_value" : "/var/log/qvd/qvd-wat.log",
      "default_value" : "${path.log}/qvd-wat.log"
    },
    {
      "default_value" : "admin",
      "is_default" : 1,
      "key" : "wat.admin.password",
      "operative_value" : "admin"
    },
    {
      "default_value" : "admin",
      "is_default" : 1,
      "key" : "wat.admin.login",
      "operative_value" : "admin"
    },
    {
      "default_value" : "/usr/lib/qvd/wat",
      "is_default" : 1,
      "operative_value" : "/usr/lib/qvd/wat",
      "key" : "path.wat"
    }
  ],
  "message" : "Successful completion"
}
```

3.10.2 config_ssl

3.10.2.1 Description

Store SSL certificates into the configuration

3.10.2.2 ACLs

- config.qvd.

3.10.2.3 Parameters

Parameter	Token	ACL
arguments <token_hash>	cert	
	key	
	crl	
	ca	

3.10.2.4 Examples

- Input:

```
action=config_ssl&arguments={"cert":"/path/to/cert.pem","key":"/path/to/key.pem"}
```

- Output:

```
{
  "total" : 1,
  "status" : 0,
  "rows" : [],
  "message" : "Successful completion"
}
```

3.10.3 config_set

3.10.3.1 Description

Create or update a configuration token

3.10.3.2 ACLs

- config.qvd.

3.10.3.3 Parameters

Parameter	Token	ACL
arguments <token_hash>	tenant_id	
	key	
	value	

3.10.3.4 Examples

- Input:

```
action=config_set&arguments={"key":"admin.token","value":"token"}
```

- Output:

```
{
  "message" : "Successful completion",
  "rows" : [
    {
      "tenant_id" : 10000,
      "key" : "admin.token"
    }
  ],
  "status" : 0,
  "total" : 1
}
```

3.10.4 config_delete

3.10.4.1 Description

Deletes a configuration token

3.10.4.2 ACLs

- config.qvd.
- tenant.purge.

3.10.4.3 Parameters

Parameter	Token	ACL
filters	tenant_id	
<token_hash>	key	

3.10.4.4 Examples

- Input:

```
action=config_delete&arguments={"key":"admin.token"}
```

- Output:

```
{
  "rows" : [],
  "status" : 0,
  "message" : "Successful completion",
  "total" : 1
}
```

3.10.5 config_wat_get_details

3.10.5.1 Description

Returns the configuration of the WAT

3.10.5.2 ACLs

- config.wat.

3.10.5.3 Parameters

Parameter	Token	ACL
filters	tenant_id	
<token_hash>	block	
	language	

3.10.5.4 Examples

- Input:

```
action=config_wat_get_details
```

- Output:

```
{
  "status" : 0,
  "rows" : [
    {
      "language" : "auto",
      "block" : 10,
      "tenant_id" : 1
    }
  ],
  "message" : "Successful completion",
  "total" : 1
}
```

3.10.6 config_wat_update

3.10.6.1 Description

Updates the configuration of the WAT

3.10.6.2 ACLs

- config.wat.

3.10.6.3 Parameters

Parameter	Token	ACL
arguments <token_hash>	tenant_id	
	block	
	language	

3.10.6.4 Examples

- Input:

```
action=config_wat_update&arguments={"block":"20"}
```

- Output:

```
{
  "status" : 0,
  "rows" : [],
  "message" : "Successful completion"
}
```

3.11 Properties

3.11.1 property_get_list

3.11.1.1 Description

Returns the parameters of a list of properties

3.11.1.2 ACLs

- property.see-main
- tenant.purge.

3.11.1.3 Parameters

Parameter	Token	ACL
filters <filter_list>	tenant_id	
fields <token_array>	id	
	key	
	description	
	tenant_id	
	property_id	
	in_user	
	in_vm	
	in_host	
	in_osf	
order_by <order_list>	id	
	key	
	description	
	property_id	
	tenant_id	

3.11.1.4 Examples

- Input:

```
action=role_get_list&filters={"id":1}
```

- Output:

```
{
  "status" : 0,
  "message" : "Successful completion",
  "rows" : [
    {
      "creation_admin_id" : null,
      "acls" : {
        "positive" : [
          "administrator.create.",
          "administrator.create.language"
        ],
        "negative" : []
      },
      "tenant_id" : -1,
      "internal" : 1,
      "roles" : {},
      "name" : "Administrators Creator",
      "description" : null,
      "id" : 1,
      "creation_admin_name" : null,
      "tenant_name" : "-",
      "fixed" : 1,
      "creation_date" : null
    }
  ],
  "total" : 1
}
```

3.11.2 property_create

3.11.2.1 Description

Creates a property

3.11.2.2 ACLs

- property.see-main

3.11.2.3 Parameters

Parameter	Token	ACL
arguments <token_hash>	key	
	tenant_id	
	description	
	__property_assign__	property.manage.

3.11.2.4 Examples

- Input:

```
action=property_create&arguments={"key":"email"}
```

- Output:

```
{
  "total" : 1,
  "rows" : [
    {
      "id" : 1
    }
  ],
  "message" : "Successful completion",
  "status" : 0
}
```

3.11.3 property_update

3.11.3.1 Description

Updates a property

3.11.3.2 ACLs

- property.see-main

3.11.3.3 Parameters

Parameter	Token	ACL
filters <filter_list>	id	
	tenant_id	
arguments <token_hash>	key	
	description	

3.11.3.4 Examples

- Input:

```
action=property_delete&filters={"id":1}&arguments={"key":"Email"}
```

- Output:

```
{
  "status" : 0,
  "total" : 1,
  "message" : "Successful completion",
  "rows" : []
}
```


3.11.4 property_delete

3.11.4.1 Description

Deletes a property

3.11.4.2 ACLs

- property.see-main
- tenant.purge.

3.11.4.3 Parameters

Parameter	Token	ACL
filters	id	
<filter_list>	tenant_id	

3.11.4.4 Examples

- Input:

```
action=property_delete&filters={"id":1}
```

- Output:

```
{
  "status" : 0,
  "rows" : [],
  "message" : "Successful completion",
  "total" : 1
}
```

3.11.5 host_get_property_list

3.11.5.1 Description

Returns the properties of a tenant hosts

3.11.5.2 ACLs

- host.see.properties

3.11.5.3 Parameters

Parameter	Token	ACL
filters	tenant_id	
<filter_list>		
fields	id	
<token_array>	property_id	
	key	

Parameter	Token	ACL
	description	
	tenant_id	
	tenant_name	
order_by <order_list>	id	
	key	
	property_id	

3.11.5.4 Examples

- Input:

```
action=host_get_property_list
```

- Output:

```
{
  "message" : "Successful completion",
  "rows" : [
    {
      "property_id" : 10000,
      "tenant_name" : "demo",
      "description" : null,
      "key" : "Location",
      "id" : 10002,
      "tenant_id" : 10005
    }
  ],
  "total" : 1,
  "status" : 0
}
```

3.11.6 host_create_property_list

3.11.6.1 Description

Assign a property to the hosts of a tenant

3.11.6.2 ACLs

- property.manage.host

3.11.6.3 Parameters

Parameter	Token	ACL
arguments <token_hash>	property_id	

3.11.6.4 Examples

- Input:

```
action=host_create_property_list&arguments={"property_id":10000}
```

- Output:

```
{
  "status" : 0,
  "total" : 1,
  "message" : "Successful completion",
  "rows" : [
    {
      "id" : 10006
    }
  ]
}
```

3.11.7 host_delete_property_list

3.11.7.1 Description

Unassign a property from the hosts of a tenant

3.11.7.2 ACLs

- property.manage.host

3.11.7.3 Parameters

Parameter	Token	ACL
filters <filter_list>	id	
	tenant_id	

3.11.7.4 Examples

- Input:

```
action=host_delete_property_list&filters={"id":10000}
```

- Output:

```
{
  "status" : 0,
  "rows" : [],
  "message" : "Successful completion",
  "total" : 1
}
```

3.11.8 user_get_property_list

3.11.8.1 Description

Returns the properties of a tenant users

3.11.8.2 ACLs

- user.see.properties

3.11.8.3 Parameters

Parameter	Token	ACL
filters <filter_list>	tenant_id	
fields <token_array>	id	
	property_id	
	key	
	description	
	tenant_id	
order_by <order_list>	tenant_name	
	id	
	key	
	property_id	

3.11.8.4 Examples

- Input:

```
action=user_get_property_list
```

- Output:

```
{
  "rows" : [
    {
      "id" : 10002,
      "key" : "Location",
      "tenant_id" : 10005,
      "property_id" : 10000,
      "tenant_name" : "demo",
      "description" : null
    }
  ],
  "message" : "Successful completion",
  "total" : 1,
  "status" : 0
}
```

3.11.9 user_create_property_list

3.11.9.1 Description

Assign a property to the users of a tenant

3.11.9.2 ACLs

- property.manage.user

3.11.9.3 Parameters

Parameter	Token	ACL
arguments <token_hash>	property_id	

3.11.9.4 Examples

- Input:

```
action=user_create_property_list&arguments={"property_id":10001}
```

- Output:

```
{
  "status" : 0,
  "total" : 1,
  "message" : "Successful completion",
  "rows" : [
    {
      "id" : 10006
    }
  ]
}
```

3.11.10 user_delete_property_list

3.11.10.1 Description

Unassign a property from the users of a tenant

3.11.10.2 ACLs

- property.manage.user

3.11.10.3 Parameters

Parameter	Token	ACL
filters	id	
<filter_list>	tenant_id	

3.11.10.4 Examples

- Input:

```
action=user_delete_property_list&filters={"id":10000}
```

- Output:

```
{
  "total" : 1,
  "message" : "Successful completion",
}
```

```

    "rows" : [],
    "status" : 0
  }

```

3.11.11 vm_get_property_list

3.11.11.1 Description

Returns the properties of a tenant virtual machines

3.11.11.2 ACLs

- vm.see.properties

3.11.11.3 Parameters

Parameter	Token	ACL
filters <filter_list>	tenant_id	
fields <token_array>	id	
	property_id	
	key	
	description	
	tenant_id	
	tenant_name	
order_by <order_list>	id	
	key	
	property_id	

3.11.11.4 Examples

- Input:

```
action=vm_get_property_list
```

- Output:

```

{
  "message" : "Successful completion",
  "rows" : [
    {
      "description" : null,
      "tenant_name" : "demo",
      "property_id" : 10000,
      "tenant_id" : 10005,
      "id" : 10002,
      "key" : "Location"
    }
  ],
  "total" : 1,
  "status" : 0
}

```

3.11.12 vm_create_property_list

3.11.12.1 Description

Assign a property to the virtual machines of a tenant

3.11.12.2 ACLs

- property.manage.vm

3.11.12.3 Parameters

Parameter	Token	ACL
arguments <token_hash>	property_id	

3.11.12.4 Examples

- Input:

```
action=vm_create_property_list&arguments={"property_id":10001}
```

- Output:

```
{
  "status" : 0,
  "rows" : [
    {
      "id" : 10006
    }
  ],
  "message" : "Successful completion",
  "total" : 1
}
```

3.11.13 vm_delete_property_list

3.11.13.1 Description

Unassign a property from the virtual machines of a tenant

3.11.13.2 ACLs

- property.manage.vm

3.11.13.3 Parameters

Parameter	Token	ACL
filters <filter_list>	id	
	tenant_id	

3.11.13.4 Examples

- Input:

```
action=vm_delete_property_list&filters={"id":10000}
```

- Output:

```
{
  "status" : 0,
  "total" : 1,
  "rows" : [],
  "message" : "Successful completion"
}
```

3.11.14 osf_get_property_list

3.11.14.1 Description

Returns the properties of a tenant OSFs

3.11.14.2 ACLs

- osf.see.properties

3.11.14.3 Parameters

Parameter	Token	ACL
filters <filter_list>	tenant_id	
fields <token_array>	id	
	property_id	
	key	
	description	
	tenant_id	
order_by <order_list>	tenant_name	
	id	
	key	
	property_id	

3.11.14.4 Examples

- Input:

```
action=osf_get_property_list
```

- Output:

```
{
  "message" : "Successful completion",
  "rows" : [
```



```

    {
      "description" : null,
      "property_id" : 10000,
      "tenant_name" : "demo",
      "tenant_id" : 10005,
      "key" : "Location",
      "id" : 10002
    }
  ],
  "total" : 1,
  "status" : 0
}

```

3.11.15 osf_create_property_list

3.11.15.1 Description

Assign a property to the OSFs of a tenant

3.11.15.2 ACLs

- property.manage.osf

3.11.15.3 Parameters

Parameter	Token	ACL
arguments <token_hash>	property_id	

3.11.15.4 Examples

- Input:

```
action=osf_create_property_list&arguments={"property_id":10001}
```

- Output:

```

{
  "message" : "Successful completion",
  "rows" : [
    {
      "id" : 10006
    }
  ],
  "total" : 1,
  "status" : 0
}

```

3.11.16 osf_delete_property_list

3.11.16.1 Description

Unassign a property from the OSFs of a tenant

3.11.16.2 ACLs

- property.manage.osf

3.11.16.3 Parameters

Parameter	Token	ACL
filters <filter_list>	id	
	tenant_id	

3.11.16.4 Examples

- Input:

```
action=osf_delete_property_list&filters={"id":10000}
```

- Output:

```
{
  "message" : "Successful completion",
  "rows" : [],
  "total" : 1,
  "status" : 0
}
```

3.11.17 di_get_property_list

3.11.17.1 Description

Returns the properties of a tenant Disk Images

3.11.17.2 ACLs

- di.see.properties

3.11.17.3 Parameters

Parameter	Token	ACL
filters <filter_list>	tenant_id	
fields <token_array>	id	
	property_id	
	key	
	description	
	tenant_id	
	tenant_name	
order_by <order_list>	id	
	key	
	property_id	

3.11.17.4 Examples

- Input:

```
action=di_get_property_list
```

- Output:

```
{
  "message" : "Successful completion",
  "rows" : [
    {
      "tenant_id" : 10005,
      "id" : 10002,
      "key" : "Location",
      "description" : null,
      "property_id" : 10000,
      "tenant_name" : "demo"
    }
  ],
  "total" : 1,
  "status" : 0
}
```

3.11.18 di_create_property_list

3.11.18.1 Description

Assign a property to the Disk Images of a tenant

3.11.18.2 ACLs

- property.manage.di

3.11.18.3 Parameters

Parameter	Token	ACL
arguments <token_hash>	property_id	

3.11.18.4 Examples

- Input:

```
action=di_create_property_list&arguments={"property_id":10001}
```

- Output:

```
{
  "total" : 1,
  "message" : "Successful completion",
  "rows" : [
```

```

    {
      "id" : 10006
    }
  ],
  "status" : 0
}

```

3.11.19 di_delete_property_list

3.11.19.1 Description

Unassign a property from the Disk Images of a tenant

3.11.19.2 ACLs

- property.manage.di

3.11.19.3 Parameters

Parameter	Token	ACL
filters	id	
<filter_list>	tenant_id	

3.11.19.4 Examples

- Input:

```
action=di_delete_property_list&filters={"id":10000}
```

- Output:

```

{
  "total" : 1,
  "message" : "Successful completion",
  "rows" : [],
  "status" : 0
}

```

3.12 Views

3.12.1 tenant_view_get_list

3.12.1.1 Description

Get the list of properties and attributes to be displayed or not in each view of the WAT

3.12.1.2 ACLs

- views.update.

3.12.1.3 Parameters

Parameter	Token	ACL
filters <filter_list>	tenant_id	
	field	
	visible	
	view_type	
	device_type	
	qvd_object	
	property	
fields <token_array>	tenant_id	
	field	
	visible	
	view_type	
	device_type	
	qvd_object	
	property	
order_by <order_list>	tenant_id	
	field	
	visible	
	view_type	
	device_type	
	qvd_object	
	property	

3.12.1.4 Examples

- Input:

```
action=tenant_view_get_list
```

- Output:

```
{
  "total" : 1,
  "rows" : [
    {
      "property" : 0,
      "visible" : 1,
      "field" : "creation_date",
      "view_type" : "list_column",
      "qvd_object" : "user",
      "device_type" : "desktop",
      "tenant_id" : 0
    }
  ],
  "message" : "Successful completion",
  "status" : 0
}
```

3.12.2 tenant_property_view_set

3.12.2.1 Description

Set a property to be displayed or not in a view of the WAT for a tenant

3.12.2.2 ACLs

- views.update.

3.12.2.3 Parameters

Parameter	Token	ACL
arguments <token_hash>	qvd_obj_prop_id	
	visible	
	view_type	
	device_type	

3.12.2.4 Examples

- Input:

```
action=tenant_property_view_set&arguments={"view_type":"list_column","device_type":"desktop ←
","visible":true,"qvd_obj_prop_id":"10008"}
```

- Output:

```
{
  "status" : 0,
  "message" : "Successful completion",
  "rows" : [
    {
      "id" : 10000
    }
  ],
  "total" : 1
}
```

3.12.3 tenant_attribute_view_set

3.12.3.1 Description

Set a attribute to be displayed or not in a view of the WAT for a tenant

3.12.3.2 ACLs

- views.update.

3.12.3.3 Parameters

Parameter	Token	ACL
arguments <token_hash>	tenant_id	
	field	
	qvd_object	
	visible	
	view_type	
	device_type	

3.12.3.4 Examples

- Input:

```
action=tenant_attribute_view_set&arguments={"view_type":"list_column","device_type":" ↵
desktop","visible":true,"qvd_object":"user","field":"id","tenant_id":"0"}
```

- Output:

```
{
  "message" : "Successful completion",
  "status" : 0,
  "total" : 1,
  "rows" : [
    {
      "id" : 10000
    }
  ]
}
```

3.12.4 tenant_view_reset

3.12.4.1 Description

Resets the columns to be displayed in view of the WAT for a tenant to default

3.12.4.2 ACLs

- config.wat.

3.12.4.3 Parameters

Parameter	Token	ACL
filters	tenant_id	
<filter_list>	qvd_object	

3.12.4.4 Examples

- Input:

```
action=tenant_attribute_view_set&arguments={"view_type":"list_column","device_type":" ↵
desktop","visible":true,"qvd_object":"user","field":"id","tenant_id":"0"}
```

- Output:

```
{
  "rows" : [],
  "status" : 0,
  "message" : "Successful completion"
}
```

3.12.5 admin_property_view_set

3.12.5.1 Description

Set a property to be displayed or not in a view of the WAT for the current administrator

3.12.5.2 ACLs

3.12.5.3 Parameters

Parameter	Token	ACL
arguments <token_hash>	qvd_obj_prop_id	
	visible	
	view_type	
	device_type	

3.12.5.4 Examples

- Input:

```
action=admin_property_view_set&arguments={"view_type":"list_column","device_type":"desktop ←
","visible":true,"qvd_obj_prop_id":"10008"}
```

- Output:

```
{
  "total" : 1,
  "rows" : [
    {
      "id" : 10000
    }
  ],
  "message" : "Successful completion",
  "status" : 0
}
```

3.12.6 admin_attribute_view_set

3.12.6.1 Description

Set a attribute to be displayed or not in a view of the WAT for the current administrator

3.12.6.2 ACLs

3.12.6.3 Parameters

Parameter	Token	ACL
arguments <token_hash>	field	
	qvd_object	
	visible	
	view_type	
	device_type	

3.12.6.4 Examples

- Input:

```
action=admin_attribute_view_set&arguments={"view_type":"list_column","device_type":"desktop" ←
  ", "visible":true, "qvd_object":"user", "field":"id", "tenant_id":"0"}
```

- Output:

```
{
  "message" : "Successful completion",
  "status" : 0,
  "total" : 1,
  "rows" : [
    {
      "id" : 10000
    }
  ]
}
```

3.12.7 admin_view_reset

3.12.7.1 Description

Resets the columns to be displayed in view of the WAT for the current administrator to default

3.12.7.2 ACLs

3.12.7.3 Parameters

Parameter	Token	ACL
filters	tenant_id	
<filter_list>	qvd_object	

3.12.7.4 Examples

- Input:

```
action=admin_attribute_view_set&arguments={"view_type":"list_column","device_type":"desktop" ←
  ", "visible":true, "qvd_object":"user", "field":"id", "tenant_id":"0"}
```

- Output:

```
{
  "rows" : [],
  "message" : "Successful completion",
  "status" : 0
}
```

3.13 Statistics

3.13.1 qvd_objects_statistics

3.13.1.1 Description

Returns statistics about the use of QVD

3.13.1.2 ACLs

- **.stats.**

3.13.1.3 Channels

- vm_created
- vm_removed
- vm_blocked_or_unblocked
- vm_changed
- vm_expiration_date_changed
- host_created
- host_deleted
- host_blocked_or_unblocked
- host_changed
- user_created
- user_deleted
- user_blocked_or_unblocked
- user_changed
- osf_created
- osf_deleted
- osf_changed
- di_created
- di_removed
- di_blocked_or_unblocked

3.13.1.4 Parameters

Parameter	Token	ACL
-----------	-------	-----

3.13.1.5 Examples

- Input:

```
action=qvd_objects_statistics
```

- Output:

```
{
  "blocked_vms_count" : 0,
  "blocked_users_count" : 0,
  "osfs_count" : 1,
  "status" : 0,
  "running_vms_count" : 0,
  "top_populated_hosts" : [
    {
      "id" : 10000,
      "number_of_vms" : 0,
      "name" : "localhost"
    }
  ],
  "connected_users_count" : 0,
  "blocked_hosts_count" : 0,
  "blocked_dis_count" : 0,
  "hosts_count" : 1,
  "dis_count" : 1,
  "vms_count" : 1,
  "running_hosts_count" : 1,
  "vms_with_expiration_date" : [],
  "message" : "Successful completion",
  "users_count" : 1
}
```

3.14 Error Codes

A call to the API can return an error code if it has not been properly executed. The following table shows the error code and a message giving details of the reason for the same:

0	QVD_CODE_SUCCESS	Successful completion
1000	QVD_CODE_IN_PROGRESS	In progress
1100	QVD_CODE_INTERNAL_ERROR	Internal server error
1200	QVD_CODE_ACTION_INCOMPLETE	Action not accomplished for all elements
1300	QVD_CODE_ZERO_ITEMS	Zero items selected, no item has been changed
2100	QVD_CODE_DB_CONNECTION_ERROR	Connection to database
2210	QVD_CODE_STAGING_COPY_ERROR	Unable to copy disk image from staging
2211	QVD_CODE_IMAGE_COPY_ERROR	Unable to copy whole disk image (lack of space?)
2220	QVD_CODE_IMAGE_DIR_MISSING	Unable to find images directory in filesystem
2230	QVD_CODE_STAGING_DIR_MISSING	Unable to find staging directory in filesystem
2240	QVD_CODE_STAGING_FILE_MISSING	Unable to find disk image in staging directory
2250	QVD_CODE_UPLOAD_IMAGE_ERROR	Unable to upload disk image
2251	QVD_CODE_MOVE_UPLOADED_IMAGE_ERROR	Unable to move uploaded disk image
2260	QVD_CODE_DOWNLOAD_IMAGE_ERROR	Unable to download disk image
2261	QVD_CODE_MOVE_DOWNLOADED_IMAGE_ERROR	Unable to move downloaded disk image
2270	QVD_CODE_FILE_READ_ERROR	Unable to read file from disk
3100	QVD_CODE_NO_CREDENTIALS	No credentials provided for authentication
3200	QVD_CODE_WRONG_CREDENTIALS	Wrong credentials - Login again
3300	QVD_CODE_SESSION_EXPIRED	Session expired - Login again
3400	QVD_CODE_SESSION_UPDATE_ERROR	Unable to update expiration time in session
3500	QVD_CODE_TENANT_BLOCKED	Access to tenant is restricted

4100	QVD_CODE_UNAVAILABLE_ACTION	Unavailable action
4110	QVD_CODE_INVALID_ACTION	Invalid or null action name provided
4210	QVD_CODE_FORBIDDEN_ACTION	Forbidden action for this administrator
4220	QVD_CODE_FORBIDDEN_FILTER	Forbidden filter for this administrator
4221	QVD_CODE_FORBIDDEN_FILTER_VALUE	Forbidden filter value for this administrator
4230	QVD_CODE_FORBIDDEN_ARGUMENT	Forbidden argument for this administrator
4240	QVD_CODE_FORBIDDEN_MASSIVE_ACTION	Massive action for this administrator
4250	QVD_CODE_FORBIDDEN_FIELD	Forbidden field for this administrator
4260	QVD_CODE_FORBIDDEN_SORT	Forbidden sort by field for this administrator
5110	QVD_CODE_DISCONNECT_USER_ERROR	Unable to disconnect user in current state
5120	QVD_CODE_STOP_VM_ERROR	Unable to stop VM in current state
5130	QVD_CODE_START_VM_ERROR	Unable to start VM in current state
5140	QVD_CODE_ASSIGN_HOST_ERROR	Unable to assign host, no host available
6100	QVD_CODE_SYNTAX_ERRORS	Syntax errors in input json
6210	QVD_CODE_INVALID_FILTER	Inappropriate filter for this action
6220	QVD_CODE_MISSING_FILTER	Mandatory filter for this action
6230	QVD_CODE_INVALID_ARGUMENT	Inappropriate argument for this action
6231	QVD_CODE_INVALID_NESTED_QUERY	Inappropriate argument for the nested query action
6240	QVD_CODE_MISSING_ARGUMENT	Mandatory argument for this action
6250	QVD_CODE_INVALID_FIELD	Inappropriate field for this action
6310	QVD_CODE_INVALID_VALUE	Invalid value
6320	QVD_CODE_INVALID_FILTER_VALUE	Invalid filter value
6321	QVD_CODE_AMBIGUOUS_FILTER	Ambiguous filter value needed
6322	QVD_CODE_NON_UNIQUE_FILTER	Unique filter value needed
6330	QVD_CODE_INVALID_ARGUMENT_VALUE	Invalid argument value
6340	QVD_CODE_INVALID_PROPERTY	Invalid property value
6350	QVD_CODE_INVALID_TAG	Invalid tag value
6360	QVD_CODE_INVALID_ACL	Invalid acl value
6370	QVD_CODE_INVALID_ROLE	Invalid role value
6380	QVD_CODE_INVALID_CONFIG_TOKEN	Invalid config token
6410	QVD_CODE_NON_NULLABLE_FIELD	Invalid value for a not nullable field
6420	QVD_CODE_MISSING_PROPERTY	Property value provided
6430	QVD_CODE_MISSING_TAG	No tag provided
6440	QVD_CODE_MISSING_ACL	No acl provided
6450	QVD_CODE_MISSING_ROLE	No role provided
6600	QVD_CODE_INVALID_SORT_ORDER	Invalid sort order direction
6610	QVD_CODE_INVALID_SORT_FIELD	Invalid sort order by field
7100	QVD_CODE_SELECT_MISSING_RELATED_ITEMS	Referenced items don't exist
7110	QVD_CODE_UPDATE_MISSING_RELATED_ITEMS	Cannot accomplish, refered related items don't exist
7120	QVD_CODE_DELETE_MISSING_RELATED_ITEMS	Cannot remove, other items depend on it
7200	QVD_CODE_DUPLICATED_ELEMENT	Element already exists
7210	QVD_CODE_DUPLICATED_PROPERTY	Property already exists
7220	QVD_CODE_DUPLICATED_ACL	This acl has already been assigned
7230	QVD_CODE_DUPLICATED_ROLE	This role has already been assigned
7310	QVD_CODE_DELETE_VM_ERROR	Unable to remove VM - This VM is running
7320	QVD_CODE_DELETE_DI_ERROR	Unable to remove DI - There are VMs running with it
7330	QVD_CODE_UPDATE_DI_TAG_ERROR	Unable to reassign a Tag fixed to another DI
7340	QVD_CODE_DELETE_DI_TAG_ERROR	Fixed and Default Tags cannot be deleted
7350	QVD_CODE_CYCLIC_ROLE	Forbidden role assignment, inherited role inherits from inheritor
7360	QVD_CODE_INVALID_EXPIRATION_DATE	Invalid expiration dates - Soft date must precede the hard one
7370	QVD_CODE_DELETE_CORE_CONFIG	Cannot delete a core config item
7373	QVD_CODE_SWITCH_MONOTENANT_ERROR	Cannot switch to monotenant mode - More than one tenant in the system
7382	QVD_CODE_CREATE_CONFIG_TOKEN	Cannot create new configuration token
7390	QVD_CODE_SET_DEFAULT_CONFIG_TOKEN	Cannot set default value is already set to the default one