



THE GUIDE OF

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# QVD 4.2 API Integration

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QVD DOCUMENTATION

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# Contents

<b>I</b>	<b>QVD API</b>	<b>1</b>
<b>1</b>	<b>Paths</b>	<b>3</b>
<b>2</b>	<b>Types</b>	<b>4</b>
<b>3</b>	<b>/api</b>	<b>6</b>
3.1	Login	7
3.2	ACLs	7
3.2.1	acl_get_list	7
3.2.1.1	Description	7
3.2.1.2	ACLs	7
3.2.1.3	Parameters	7
3.2.1.4	Examples	8
3.2.2	get_acls_in_roles	8
3.2.2.1	Description	8
3.2.2.2	ACLs	8
3.2.2.3	Parameters	8
3.2.2.4	Examples	9
3.2.3	get_acls_in_admins	9
3.2.3.1	Description	9
3.2.3.2	ACLs	9
3.2.3.3	Parameters	9
3.2.3.4	Examples	9
3.2.4	acl_tiny_list	10
3.2.4.1	Description	10
3.2.4.2	ACLs	10
3.2.4.3	Parameters	10
3.2.4.4	Examples	10
3.2.5	number_of_acls_in_role	11

3.2.5.1	Description	11
3.2.5.2	ACLs	11
3.2.5.3	Parameters	11
3.2.5.4	Examples	11
3.2.6	number_of_acls_in_admin	11
3.2.6.1	Description	11
3.2.6.2	ACLs	11
3.2.6.3	Parameters	11
3.2.6.4	Examples	12
3.3	Roles	12
3.3.1	role_get_list	12
3.3.1.1	Description	12
3.3.1.2	ACLs	12
3.3.1.3	Parameters	12
3.3.1.4	Examples	13
3.3.2	role_get_details	13
3.3.2.1	Description	13
3.3.2.2	ACLs	14
3.3.2.3	Parameters	14
3.3.2.4	Examples	14
3.3.3	role_tiny_list	15
3.3.3.1	Description	15
3.3.3.2	ACLs	15
3.3.3.3	Parameters	15
3.3.3.4	Examples	15
3.3.4	role_all_ids	16
3.3.4.1	Description	16
3.3.4.2	ACLs	16
3.3.4.3	Parameters	16
3.3.4.4	Examples	17
3.3.5	role_create	17
3.3.5.1	Description	17
3.3.5.2	ACLs	17
3.3.5.3	Parameters	17
3.3.5.4	Examples	17
3.3.6	role_update	18
3.3.6.1	Description	18
3.3.6.2	ACLs	18
3.3.6.3	Parameters	18

3.3.6.4	Examples	18
3.3.7	role_delete	19
3.3.7.1	Description	19
3.3.7.2	ACLs	19
3.3.7.3	Parameters	19
3.3.7.4	Examples	19
3.4	Tenants	19
3.4.1	tenant_get_list	19
3.4.1.1	Description	19
3.4.1.2	ACLs	19
3.4.1.3	Parameters	19
3.4.1.4	Examples	20
3.4.2	tenant_get_details	21
3.4.2.1	Description	21
3.4.2.2	ACLs	21
3.4.2.3	Parameters	21
3.4.2.4	Examples	22
3.4.3	tenant_tiny_list	22
3.4.3.1	Description	22
3.4.3.2	ACLs	22
3.4.3.3	Parameters	22
3.4.3.4	Examples	23
3.4.4	tenant_all_ids	23
3.4.4.1	Description	23
3.4.4.2	ACLs	24
3.4.4.3	Parameters	24
3.4.4.4	Examples	24
3.4.5	tenant_create	24
3.4.5.1	Description	24
3.4.5.2	ACLs	25
3.4.5.3	Parameters	25
3.4.5.4	Examples	25
3.4.6	tenant_update	25
3.4.6.1	Description	25
3.4.6.2	ACLs	25
3.4.6.3	Parameters	25
3.4.6.4	Examples	26
3.4.7	tenant_delete	26
3.4.7.1	Description	26

3.4.7.2	ACLs	26
3.4.7.3	Parameters	26
3.4.7.4	Examples	26
3.4.8	mytenant_update	26
3.4.8.1	Description	26
3.4.8.2	ACLs	27
3.4.8.3	Parameters	27
3.4.8.4	Examples	27
3.5	Administrators	27
3.5.1	current_admin_setup	27
3.5.1.1	Description	27
3.5.1.2	ACLs	27
3.5.1.3	Parameters	27
3.5.1.4	Examples	27
3.5.2	administrator_get_list	28
3.5.2.1	Description	28
3.5.2.2	ACLs	28
3.5.2.3	Parameters	28
3.5.2.4	Examples	29
3.5.3	administrator_get_details	30
3.5.3.1	Description	30
3.5.3.2	ACLs	30
3.5.3.3	Parameters	30
3.5.3.4	Examples	30
3.5.4	administrator_tiny_list	31
3.5.4.1	Description	31
3.5.4.2	ACLs	31
3.5.4.3	Parameters	31
3.5.4.4	Examples	32
3.5.5	administrator_all_ids	32
3.5.5.1	Description	32
3.5.5.2	ACLs	32
3.5.5.3	Parameters	33
3.5.5.4	Examples	33
3.5.6	administrator_create	33
3.5.6.1	Description	33
3.5.6.2	ACLs	34
3.5.6.3	Parameters	34
3.5.6.4	Examples	34

3.5.7	administrator_update	34
3.5.7.1	Description	34
3.5.7.2	ACLs	34
3.5.7.3	Parameters	34
3.5.7.4	Examples	35
3.5.8	administrator_delete	35
3.5.8.1	Description	35
3.5.8.2	ACLs	35
3.5.8.3	Parameters	35
3.5.8.4	Examples	35
3.5.9	myadmin_update	36
3.5.9.1	Description	36
3.5.9.2	ACLs	36
3.5.9.3	Parameters	36
3.5.9.4	Examples	36
3.6	Users	36
3.6.1	user_get_list	36
3.6.1.1	Description	36
3.6.1.2	ACLs	37
3.6.1.3	Channels	37
3.6.1.4	Parameters	37
3.6.1.5	Examples	37
3.6.2	user_get_details	38
3.6.2.1	Description	38
3.6.2.2	ACLs	38
3.6.2.3	Channels	38
3.6.2.4	Parameters	39
3.6.2.5	Examples	39
3.6.3	user_tiny_list	40
3.6.3.1	Description	40
3.6.3.2	ACLs	40
3.6.3.3	Parameters	40
3.6.3.4	Examples	40
3.6.4	user_all_ids	41
3.6.4.1	Description	41
3.6.4.2	ACLs	41
3.6.4.3	Parameters	41
3.6.4.4	Examples	41
3.6.5	user_get_state	42

3.6.5.1	Description	42
3.6.5.2	ACLs	42
3.6.5.3	Parameters	42
3.6.5.4	Examples	42
3.6.6	user_create	43
3.6.6.1	Description	43
3.6.6.2	ACLs	43
3.6.6.3	Parameters	43
3.6.6.4	Examples	43
3.6.7	user_update	44
3.6.7.1	Description	44
3.6.7.2	ACLs	44
3.6.7.3	Parameters	44
3.6.7.4	Examples	44
3.6.8	user_delete	44
3.6.8.1	Description	44
3.6.8.2	ACLs	44
3.6.8.3	Parameters	45
3.6.8.4	Examples	46
3.7	Hosts	46
3.7.1	host_get_list	46
3.7.1.1	Description	46
3.7.1.2	ACLs	46
3.7.1.3	Channels	46
3.7.1.4	Parameters	46
3.7.1.5	Examples	47
3.7.2	host_get_details	48
3.7.2.1	Description	48
3.7.2.2	ACLs	48
3.7.2.3	Channels	48
3.7.2.4	Parameters	48
3.7.2.5	Examples	49
3.7.3	host_tiny_list	49
3.7.3.1	Description	49
3.7.3.2	ACLs	49
3.7.3.3	Parameters	49
3.7.3.4	Examples	50
3.7.4	host_all_ids	50
3.7.4.1	Description	50

3.7.4.2	ACLs	50
3.7.4.3	Parameters	50
3.7.4.4	Examples	51
3.7.5	host_get_state	51
3.7.5.1	Description	51
3.7.5.2	ACLs	51
3.7.5.3	Parameters	51
3.7.5.4	Examples	52
3.7.6	host_create	52
3.7.6.1	Description	52
3.7.6.2	ACLs	52
3.7.6.3	Parameters	52
3.7.6.4	Examples	53
3.7.7	host_update	53
3.7.7.1	Description	53
3.7.7.2	ACLs	53
3.7.7.3	Parameters	53
3.7.7.4	Examples	53
3.7.8	host_delete	54
3.7.8.1	Description	54
3.7.8.2	ACLs	54
3.7.8.3	Parameters	54
3.7.8.4	Examples	54
3.8	OSFs	54
3.8.1	osf_get_list	54
3.8.1.1	Description	54
3.8.1.2	ACLs	54
3.8.1.3	Channels	55
3.8.1.4	Parameters	55
3.8.1.5	Examples	55
3.8.2	osf_get_details	56
3.8.2.1	Description	56
3.8.2.2	ACLs	56
3.8.2.3	Channels	57
3.8.2.4	Parameters	57
3.8.2.5	Examples	57
3.8.3	osf_tiny_list	58
3.8.3.1	Description	58
3.8.3.2	ACLs	58



3.8.3.3	Parameters	58
3.8.3.4	Examples	58
3.8.4	osf_all_ids	58
3.8.4.1	Description	58
3.8.4.2	ACLs	59
3.8.4.3	Parameters	59
3.8.4.4	Examples	59
3.8.5	osf_create	59
3.8.5.1	Description	59
3.8.5.2	ACLs	60
3.8.5.3	Parameters	60
3.8.5.4	Examples	60
3.8.6	osf_update	60
3.8.6.1	Description	60
3.8.6.2	ACLs	60
3.8.6.3	Parameters	60
3.8.6.4	Examples	61
3.8.7	osf_delete	61
3.8.7.1	Description	61
3.8.7.2	ACLs	61
3.8.7.3	Parameters	61
3.8.7.4	Examples	61
3.9	Disk Images	62
3.9.1	di_get_list	62
3.9.1.1	Description	62
3.9.1.2	ACLs	62
3.9.1.3	Parameters	62
3.9.1.4	Examples	63
3.9.2	di_get_details	64
3.9.2.1	Description	64
3.9.2.2	ACLs	64
3.9.2.3	Parameters	64
3.9.2.4	Examples	65
3.9.3	di_all_ids	65
3.9.3.1	Description	65
3.9.3.2	ACLs	66
3.9.3.3	Parameters	66
3.9.3.4	Examples	66
3.9.4	di_tiny_list	67

3.9.4.1	Description	67
3.9.4.2	ACLs	67
3.9.4.3	Parameters	67
3.9.4.4	Examples	67
3.9.5	tag_get_list	68
3.9.5.1	Description	68
3.9.5.2	ACLs	68
3.9.5.3	Parameters	68
3.9.5.4	Examples	68
3.9.6	tag_tiny_list	69
3.9.6.1	Description	69
3.9.6.2	ACLs	69
3.9.6.3	Parameters	69
3.9.6.4	Examples	69
3.9.7	di_create	70
3.9.7.1	Description	70
3.9.7.2	ACLs	70
3.9.7.3	Parameters	70
3.9.7.4	Examples	70
3.9.8	di_update	71
3.9.8.1	Description	71
3.9.8.2	ACLs	71
3.9.8.3	Parameters	71
3.9.8.4	Examples	71
3.9.9	di_delete	72
3.9.9.1	Description	72
3.9.9.2	ACLs	72
3.9.9.3	Parameters	72
3.9.9.4	Examples	72
3.9.10	dis_in_staging	73
3.9.10.1	Description	73
3.9.10.2	ACLs	73
3.9.10.3	Parameters	73
3.9.10.4	Examples	73
3.10	Configuration	73
3.10.1	config_get	73
3.10.1.1	Description	73
3.10.1.2	ACLs	74
3.10.1.3	Parameters	74

- 3.10.1.4 Examples . . . . . 74
  - 3.10.2 config\_ssl . . . . . 75
    - 3.10.2.1 Description . . . . . 75
    - 3.10.2.2 ACLs . . . . . 75
    - 3.10.2.3 Parameters . . . . . 75
    - 3.10.2.4 Examples . . . . . 75
  - 3.10.3 config\_set . . . . . 76
    - 3.10.3.1 Description . . . . . 76
    - 3.10.3.2 ACLs . . . . . 76
    - 3.10.3.3 Parameters . . . . . 76
    - 3.10.3.4 Examples . . . . . 76
  - 3.10.4 config\_delete . . . . . 76
    - 3.10.4.1 Description . . . . . 76
    - 3.10.4.2 ACLs . . . . . 76
    - 3.10.4.3 Parameters . . . . . 77
    - 3.10.4.4 Examples . . . . . 77
  - 3.10.5 config\_wat\_get\_details . . . . . 77
    - 3.10.5.1 Description . . . . . 77
    - 3.10.5.2 ACLs . . . . . 77
    - 3.10.5.3 Parameters . . . . . 77
    - 3.10.5.4 Examples . . . . . 77
  - 3.10.6 config\_wat\_update . . . . . 78
    - 3.10.6.1 Description . . . . . 78
    - 3.10.6.2 ACLs . . . . . 78
    - 3.10.6.3 Parameters . . . . . 78
    - 3.10.6.4 Examples . . . . . 78
- 3.11 Properties . . . . . 78
  - 3.11.1 property\_get\_list . . . . . 78
    - 3.11.1.1 Description . . . . . 78
    - 3.11.1.2 ACLs . . . . . 79
    - 3.11.1.3 Parameters . . . . . 79
    - 3.11.1.4 Examples . . . . . 79
  - 3.11.2 property\_create . . . . . 80
    - 3.11.2.1 Description . . . . . 80
    - 3.11.2.2 ACLs . . . . . 80
    - 3.11.2.3 Parameters . . . . . 80
    - 3.11.2.4 Examples . . . . . 80
  - 3.11.3 property\_update . . . . . 80
    - 3.11.3.1 Description . . . . . 80

3.11.3.2	ACLs . . . . .	81
3.11.3.3	Parameters . . . . .	81
3.11.3.4	Examples . . . . .	81
3.11.4	property_delete . . . . .	81
3.11.4.1	Description . . . . .	81
3.11.4.2	ACLs . . . . .	81
3.11.4.3	Parameters . . . . .	81
3.11.4.4	Examples . . . . .	81
3.11.5	host_get_property_list . . . . .	82
3.11.5.1	Description . . . . .	82
3.11.5.2	ACLs . . . . .	82
3.11.5.3	Parameters . . . . .	82
3.11.5.4	Examples . . . . .	82
3.11.6	host_create_property_list . . . . .	83
3.11.6.1	Description . . . . .	83
3.11.6.2	ACLs . . . . .	83
3.11.6.3	Parameters . . . . .	83
3.11.6.4	Examples . . . . .	83
3.11.7	host_delete_property_list . . . . .	83
3.11.7.1	Description . . . . .	83
3.11.7.2	ACLs . . . . .	84
3.11.7.3	Parameters . . . . .	84
3.11.7.4	Examples . . . . .	84
3.11.8	user_get_property_list . . . . .	84
3.11.8.1	Description . . . . .	84
3.11.8.2	ACLs . . . . .	84
3.11.8.3	Parameters . . . . .	84
3.11.8.4	Examples . . . . .	85
3.11.9	user_create_property_list . . . . .	85
3.11.9.1	Description . . . . .	85
3.11.9.2	ACLs . . . . .	85
3.11.9.3	Parameters . . . . .	85
3.11.9.4	Examples . . . . .	85
3.11.10	user_delete_property_list . . . . .	86
3.11.10.1	Description . . . . .	86
3.11.10.2	ACLs . . . . .	86
3.11.10.3	Parameters . . . . .	86
3.11.10.4	Examples . . . . .	86
3.11.11	vm_get_property_list . . . . .	86

3.11.11.1 Description	86
3.11.11.2 ACLs	86
3.11.11.3 Parameters	87
3.11.11.4 Examples	88
3.11.12 vm_create_property_list	88
3.11.12.1 Description	88
3.11.12.2 ACLs	88
3.11.12.3 Parameters	88
3.11.12.4 Examples	89
3.11.13 vm_delete_property_list	89
3.11.13.1 Description	89
3.11.13.2 ACLs	89
3.11.13.3 Parameters	89
3.11.13.4 Examples	89
3.11.14 osf_get_property_list	90
3.11.14.1 Description	90
3.11.14.2 ACLs	90
3.11.14.3 Parameters	90
3.11.14.4 Examples	90
3.11.15 osf_create_property_list	90
3.11.15.1 Description	90
3.11.15.2 ACLs	91
3.11.15.3 Parameters	91
3.11.15.4 Examples	91
3.11.16 osf_delete_property_list	91
3.11.16.1 Description	91
3.11.16.2 ACLs	91
3.11.16.3 Parameters	91
3.11.16.4 Examples	91
3.11.17 di_get_property_list	92
3.11.17.1 Description	92
3.11.17.2 ACLs	92
3.11.17.3 Parameters	92
3.11.17.4 Examples	92
3.11.18 di_create_property_list	93
3.11.18.1 Description	93
3.11.18.2 ACLs	93
3.11.18.3 Parameters	93
3.11.18.4 Examples	93

3.11.19 di_delete_property_list . . . . .	93
3.11.19.1 Description . . . . .	93
3.11.19.2 ACLs . . . . .	94
3.11.19.3 Parameters . . . . .	94
3.11.19.4 Examples . . . . .	94
3.12 Views . . . . .	94
3.12.1 tenant_view_get_list . . . . .	94
3.12.1.1 Description . . . . .	94
3.12.1.2 ACLs . . . . .	94
3.12.1.3 Parameters . . . . .	94
3.12.1.4 Examples . . . . .	95
3.12.2 tenant_property_view_set . . . . .	95
3.12.2.1 Description . . . . .	95
3.12.2.2 ACLs . . . . .	95
3.12.2.3 Parameters . . . . .	95
3.12.2.4 Examples . . . . .	96
3.12.3 tenant_attribute_view_set . . . . .	96
3.12.3.1 Description . . . . .	96
3.12.3.2 ACLs . . . . .	96
3.12.3.3 Parameters . . . . .	96
3.12.3.4 Examples . . . . .	96
3.12.4 tenant_view_reset . . . . .	97
3.12.4.1 Description . . . . .	97
3.12.4.2 ACLs . . . . .	97
3.12.4.3 Parameters . . . . .	97
3.12.4.4 Examples . . . . .	97
3.12.5 admin_property_view_set . . . . .	98
3.12.5.1 Description . . . . .	98
3.12.5.2 ACLs . . . . .	98
3.12.5.3 Parameters . . . . .	98
3.12.5.4 Examples . . . . .	98
3.12.6 admin_attribute_view_set . . . . .	98
3.12.6.1 Description . . . . .	98
3.12.6.2 ACLs . . . . .	98
3.12.6.3 Parameters . . . . .	98
3.12.6.4 Examples . . . . .	99
3.12.7 admin_view_reset . . . . .	99
3.12.7.1 Description . . . . .	99
3.12.7.2 ACLs . . . . .	99

---

3.12.7.3	Parameters	99
3.12.7.4	Examples	99
3.13	Statistics	100
3.13.1	qvd_objects_statistics	100
3.13.1.1	Description	100
3.13.1.2	ACLs	100
3.13.1.3	Channels	100
3.13.1.4	Parameters	100
3.13.1.5	Examples	100
3.14	Error Codes	101

# **Part I**

# **QVD API**



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

# Chapter 1

## Paths

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

Table 1.1: 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"> <li>• Date of the server in UTC format</li> <li>• Multitenant mode is activated or not</li> <li>• API version</li> <li>• Diverse public configuration parameters</li> </ul>
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 <a href="#">[api]</a>
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.

## Chapter 2

# Types

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

Table 2.1: 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%"
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"}



## Chapter 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
<b>filters</b> <filter_list>	<u>id</u>	
	name	
	description	
	acl_name	
	admin_id	
	operative	
<b>fields</b> <token_array>	<u>id</u>	
	name	
	description	
	roles	
	operative	
<b>order_by</b> <order_list>	<u>id</u>	
	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
<b>filters</b> <filter_list>	id	
	name	
	description	
	acl_name	
	role_id	
	operative	
<b>fields</b> <token_array>	id	
	name	
	description	
	roles	
	operative	
<b>order_by</b> <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
<b>filters</b> <filter_list>	id	
	name	
	description	
	acl_name	
	admin_id	
	operative	
<b>fields</b> <token_array>	id	
	name	
	description	
	roles	
	operative	
<b>order_by</b> <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
<b>filters</b> <filter_list>	name	
<b>fields</b> <token_array>	id	
	name	
<b>order_by</b> <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
<b>filters</b> <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
<b>filters</b> <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
<b>filters</b> <filter_list>	id	
	name	
	tenant_id	
	tenant_name	
	description	
	fixed	
	internal	
	creation_date	role.see.creation-date
	creation_admin_id	role.see.created-by
<b>fields</b> <token_array>	creation_admin_name	role.see.created-by
	id	
	name	
	description	role.see.description
	acls	role.see.acls
	roles	role.see.roles
	fixed	
	internal	
	creation_date	role.see.creation-date
creation_admin_id	role.see.created-by	

Parameter	Token	ACL
	creation_admin_name	role.see.created-by
<b>order_by</b> <order_list>	id	
	name	
	tenant_id	
	tenant_name	
	description	role.see.description
	fixed	
	internal	
	creation_date	role.see.creation-date
	creation_admin_id	role.see.created-by
creation_admin_name	role.see.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
<b>filters</b> <filter_list>	id	
	tenant_id	
<b>fields</b> <token_array>	id	
	name	
	description	role.see.description
	acls	role.see.acls
	roles	role.see.roles
	fixed	
	internal	
	creation_date	role.see.creation-date
	creation_admin_id	role.see.created-by
creation_admin_name	role.see.created-by	
<b>order_by</b> <order_list>	id	
	name	
	tenant_id	
	tenant_name	
	description	role.see.description
	fixed	
	internal	
	creation_date	role.see.creation-date
	creation_admin_id	role.see.created-by
creation_admin_name	role.see.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
<b>filters</b> <filter_list>	tenant_id	
<b>fields</b> <token_array>	id	
	name	
	tenant_name	
<b>order_by</b> <order_list>	id	
	name	
	tenant_id	
	tenant_name	
	description	role.see.description
	fixed	
	internal	
	creation_date	role.see.creation-date
	creation_admin_id	role.see.created-by
creation_admin_name	role.see.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
<b>filters</b> <filter_list>	id	
	name	
	tenant_id	
	tenant_name	
	description	
	fixed	
	internal	
	creation_date	role.see.creation-date
	creation_admin_id	role.see.created-by
creation_admin_name	role.see.created-by	
<b>fields</b> <token_array>	id	
<b>order_by</b> <order_list>	id	
	name	
	tenant_id	
	tenant_name	
	description	role.see.description
	fixed	
	internal	
	creation_date	role.see.creation-date
	creation_admin_id	role.see.created-by
creation_admin_name	role.see.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
<b>arguments</b> <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
<b>filters</b> <filter_list>	id	
<b>arguments</b> <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
<b>filters</b> <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
<b>filters</b> <filter_list>	id	
	name	
	description	
	block	
	language	
	blocked	tenant.see.block
	creation_date	tenant.see.creation-date
	creation_admin_id	tenant.see.created-by
<b>fields</b> <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
<b>order_by</b> <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
<b>filters</b> <filter_list>	id	
	name	
	description	
	block	
	language	
	blocked	tenant.see.block
	creation_date	tenant.see.creation-date
	creation_admin_id	tenant.see.created-by
<b>fields</b> <token_array>	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
<b>order_by</b> <order_list>	creation_admin_id	tenant.see.created-by
	creation_admin_name	tenant.see.created-by
	id	
	name	

Parameter	Token	ACL
	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

### 3.4.2.4 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
<b>filters</b>	id	
<filter_list>	name	
	description	

Parameter	Token	ACL
	block	
	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
<b>fields</b>	id	
<token_array>	name	
<b>order_by</b>	id	
<order_list>	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

### 3.4.3.4 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
<b>filters</b> <filter_list>	id	
	name	
	description	
	block	
	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
<b>fields</b> <token_array>	id	
<b>order_by</b> <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
<b>arguments</b> <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
<b>filters</b> <token_hash>	id	
<b>arguments</b> <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
<b>filters</b> <filter_list>	id	
	name	
	tenant_id	
	tenant_name	
	description	
	block	
	language	
	creation_date	administrator.see.creation-date
	creation_admin_id	administrator.see.created-by
creation_admin_name	administrator.see.created-by	
<b>fields</b> <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	
<b>order_by</b> <order_list>	id	

Parameter	Token	ACL
	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
<b>filters</b> <filter_list>	id	
<b>fields</b> <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	
<b>order_by</b> <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.see.administrator
- \*.see.created-by

#### 3.5.4.3 Parameters

Parameter	Token	ACL
<b>filters</b> <filter_list>	tenant_id	
<b>fields</b> <token_array>	tenant_id	
	id	
	name	
<b>order_by</b> <order_list>	id	
	name	
	tenant_id	
	tenant_name	
	description	administrator.see.description
	block	

Parameter	Token	ACL
	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.

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

### 3.5.5.3 Parameters

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

### 3.5.5.4 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
<b>arguments</b> <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
<b>filters</b> <filter_list>	id	
	tenant_id	
<b>arguments</b> <token_hash>	name	

Parameter	Token	ACL
	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
<b>filters</b>	id	
<filter_list>	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
<b>filters</b> <filter_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
<b>fields</b> <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	
<b>order_by</b> <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
<b>filters</b> <filter_list>	id	
<b>fields</b> <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	
<b>order_by</b> <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.see.user
- tenant.purge

#### 3.6.3.3 Parameters

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

#### 3.6.3.4 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
<b>filters</b> <filter_list>	id	
	name	user.see.name
	description	
	tenant_id	
	tenant_name	
	blocked	
	creation_date	
	creation_admin_id	
<b>fields</b> <token_array>	id	
<b>order_by</b> <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
<b>filters</b> <filter_list>	id	
<b>fields</b> <token_array>	number_of_vms_connected	user.see.vms-info
<b>order_by</b> <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	

#### 3.6.5.4 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
<b>arguments</b> <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
<b>filters</b> <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
<b>filters</b> <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
<b>filters</b> <filter_list>	id	
	name	
	description	
	address	
	frontend	

Parameter	Token	ACL
	backend	
	vm_id	host.see.vm
	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
<b>fields</b> <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	
<b>order_by</b> <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
<b>filters</b> <filter_list>	id	
<b>fields</b> <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	
<b>order_by</b> <order_list>	id	
	name	
	description	host.see.description
	address	host.see.address

Parameter	Token	ACL
	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.see.host

### 3.7.3.3 Parameters



Parameter	Token	ACL
<b>filters</b> <filter_list>		
<b>fields</b> <token_array>	id	
	name	
<b>order_by</b> <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
<b>filters</b> <filter_list>	id	
	name	

Parameter	Token	ACL
	description	
	address	
	frontend	
	backend	
	vm_id	host.see.vm
	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
<b>fields</b> <token_array>	id	
<b>order_by</b> <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
<b>filters</b> <filter_list>	id	
<b>fields</b> <token_array>	number_of_vms_connected	host.see.vms-info
<b>order_by</b> <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
<b>arguments</b> <token_hash>	name	
	description	
	address	
	frontend	
	backend	
	state	
info@theqvd.com	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
<b>arguments</b> <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
<b>filters</b> <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
<b>filters</b> <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
<b>filters</b> <filter_list>	id	
	name	
	tenant_id	
	tenant_name	
	description	
	overlay	
	user_storage	
	memory	
	vm_id	osf.see.vm
	di_id	osf.see.di
	creation_date	osf.see.creation-date
	creation_admin_id	osf.see.created-by
	creation_admin_name	osf.see.created-by
<b>fields</b> <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	
<b>order_by</b> <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	

### 3.8.1.5 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
<b>filters</b> <filter_list>	id	
	tenant_id	
<b>fields</b> <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	
<b>order_by</b> <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.see.osf
- vm.see.osf

#### 3.8.3.3 Parameters

Parameter	Token	ACL
<b>filters</b> <filter_list>	tenant_id	
<b>fields</b> <token_array>	id	
	name	
	tenant_name	
<b>order_by</b> <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
<b>filters</b> <filter_list>	id	
	name	
	tenant_id	
	tenant_name	
	description	
	overlay	
	user_storage	
	memory	
	vm_id	osf.see.vm
	di_id	osf.see.di
	creation_date	osf.see.creation-date
	creation_admin_id	osf.see.created-by
creation_admin_name	osf.see.created-by	
<b>fields</b> <token_array>	id	
<b>order_by</b> <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
<b>arguments</b> <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
<b>filters</b> <filter_list>	id	
	tenant_id	
<b>arguments</b> <token_hash>	name	osf.update.name

Parameter	Token	ACL
	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
<b>filters</b>	id	
<filter_list>	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
<b>filters</b> <filter_list>	id	
	disk_image	
	tenant_id	
	tenant_name	
	description	
	version	
	osf_id	di.see.osf osf.see.di-list
	osf_name	di.see.osf
	blocked	
	tag	
	creation_date	
	creation_admin_id	
	creation_admin_name	
<b>fields</b> <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
<b>order_by</b> <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
        }
      ]
    }
  ]
}
```

```

        "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
<b>filters</b>	id	
<filter_list>	tenant_id	
<b>fields</b>	id	
<token_array>	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
<b>order_by</b>	id	
<order_list>	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

Parameter	Token	ACL
	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
<b>filters</b> <filter_list>	id	
	disk_image	di.see.disk-image
	description	
	version	
	osf_id	di.see.osf osf.see.di-list
	osf_name	di.see.osf
	osf	di.see.osf
	tenant_id	
	tenant_name	
	blocked	
	tag	
	creation_date	
	creation_admin_id	
	creation_admin_name	
<b>fields</b> <token_array>	id	
<b>order_by</b> <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.see.di
- tenant.purge.

#### 3.9.4.3 Parameters

Parameter	Token	ACL
<b>filters</b> <filter_list>	tenant_id	
<b>fields</b> <token_array>	id	
	disk_image	
	tenant_name	
<b>order_by</b> <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
<b>filters</b> <filter_list>	id	
	name	
	osf_id	
	di_id	
	tenant_id	
<b>fields</b> <token_array>	id	
	name	
	osf_id	
	di_id	
<b>order_by</b> <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
<b>filters</b> <filter_list>	tenant_id	
	osf_id	
<b>fields</b> <token_array>	id	
	name	
<b>order_by</b> <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
<b>arguments</b> <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	
<b>filters</b> <filter_list>	id		
	tenant_id		
<b>arguments</b> <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
<b>filters</b> <filter_list>	key	
	tenant_id	
	operative_value	
	default_value	
	is_default	
<b>order_by</b> <order_list>	key	
<b>fields</b> <token_array>	key	
	tenant_id	
	operative_value	
	default_value	
	is_default	

### 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 <token_hash>	tenant_id	
	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 <token_hash>	tenant_id	
	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
<b>filters</b> <filter_list>	tenant_id	
<b>fields</b> <token_array>	id	
	key	
	description	
	tenant_id	
	property_id	
	in_user	
	in_vm	
	in_host	
	in_di	
in_osf		
<b>order_by</b> <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
<b>filters</b> <filter_list>	id	
	tenant_id	
<b>arguments</b> <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
<b>filters</b> <filter_list>	id	
	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
<b>filters</b> <filter_list>	tenant_id	
<b>fields</b> <token_array>	id	
	property_id	
	key	
	description	
	tenant_id	
<b>order_by</b> <order_list>	tenant_name	
	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
<b>filters</b> <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
<b>filters</b> <filter_list>	tenant_id	
<b>fields</b> <token_array>	id	
	property_id	
	key	
	description	
	tenant_id	
	tenant_name	
<b>order_by</b> <order_list>	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
<b>filters</b> <filter_list>	tenant_id	
<b>fields</b> <token_array>	id	
	property_id	
	key	
	description	
	tenant_id	
<b>order_by</b> <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
<b>arguments</b> <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
<b>filters</b>	id	
<filter_list>	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
<b>filters</b> <filter_list>	tenant_id	
<b>fields</b> <token_array>	id	
	property_id	
	key	
	description	
	tenant_id	
<b>order_by</b> <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
<b>arguments</b> <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
<b>filters</b> <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
<b>filters</b> <filter_list>	tenant_id	
<b>fields</b> <token_array>	id	
	property_id	
	key	
	description	
	tenant_id	
<b>order_by</b> <order_list>	tenant_name	
	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
<b>filters</b> <filter_list>	id	
	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
<b>filters</b> <filter_list>	tenant_id	
	field	
	visible	
	view_type	
	device_type	
	qvd_object	
	property	
<b>fields</b> <token_array>	tenant_id	
	field	

Parameter	Token	ACL
	visible	
	view_type	
	device_type	
	qvd_object	
	property	
<b>order_by</b> <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
<b>arguments</b> <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
<b>arguments</b> <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
<b>filters</b>	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
<b>filters</b>	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	No 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_UPLOAD_IMAGE_ERROR	Unable to move uploaded disk image
2260	QVD_CODE_DOWNLOAD_IMAGE_ERROR	Unable to download disk image
2261	QVD_CODE_MOVE_DOWNLOAD_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	Forbidden 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_KEY	Inappropriate filter for this action
6220	QVD_CODE_MISSING_FILTER_KEY	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	Multiple 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_DIRECTION	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	Unable to accomplish, refered related items don't exist
7120	QVD_CODE_DELETE_MISSING_RELATED_ITEMS	Unable to 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	Unable to delete a core config item
7373	QVD_CODE_SWITCH_MONOTENANT_MODE	Unable to switch to monotenant mode - More than one tenant in the system
7382	QVD_CODE_CREATE_CONFIG_TOKEN	Unable to create new configuration token
7390	QVD_CODE_SET_DEFAULT_CONFIG	Unable to set value is already set to the default one