

**src.ielo.net - Sinn XMLRPC API 1.0.0 Documentation**

# Table of Contents

<b><u>src.ielo.net - Sinn XMLRPC API 1.0.0 Documentation</u></b> .....	<b>1</b>
<b><u>Table of Contents</u></b> .....	<b>2</b>
<u>Sinn XMLRPC API 1.0.0</u> .....	3
<u>Methods Index</u> .....	3
<u>Methods List</u> .....	4
<u>api.version</u> .....	4
<u>interface.attributes</u> .....	4
<u>interface.create</u> .....	5
<u>interface.delete</u> .....	5
<u>interface.ipaddress.attach</u> .....	6
<u>interface.ipaddress.detach</u> .....	6
<u>interface.ipaddress.list</u> .....	6
<u>interface.list</u> .....	7
<u>interface.types.list</u> .....	7
<u>interface.update</u> .....	7
<u>ipaddress.attributes</u> .....	8
<u>ipaddress.create</u> .....	8
<u>ipaddress.delete</u> .....	8
<u>ipaddress.list</u> .....	9
<u>ipaddress.update</u> .....	9
<u>machine.attributes</u> .....	9
<u>machine.boot</u> .....	10
<u>machine.cputype.list</u> .....	10
<u>machine.create</u> .....	10
<u>machine.delete</u> .....	11
<u>machine.interface.attach</u> .....	11
<u>machine.interface.detach</u> .....	11
<u>machine.interface.list</u> .....	12
<u>machine.list</u> .....	12
<u>machine.migrate</u> .....	12
<u>machine.shutdown</u> .....	12
<u>machine.storage.attach</u> .....	13
<u>machine.storage.bustype.list</u> .....	13
<u>machine.storage.detach</u> .....	13
<u>machine.storage.list</u> .....	14
<u>machine.update</u> .....	14
<u>machine.vnc.keymap.list</u> .....	14
<u>sitegroup.list</u> .....	15
<u>storage.attributes</u> .....	15
<u>storage.clone</u> .....	15
<u>storage.clone config</u> .....	16
<u>storage.clone data</u> .....	16
<u>storage.create</u> .....	16
<u>storage.delete</u> .....	17
<u>storage.list</u> .....	17
<u>storage.update</u> .....	17
<u>system.listMethods</u> .....	18

# Table of Contents

## Table of Contents

<u>system.methodHelp</u> .....	18
<u>system.methodSignature</u> .....	18
<u>vlan.attributes</u> .....	18
<u>vlan.create</u> .....	19
<u>vlan.delete</u> .....	19
<u>vlan.interface.attach</u> .....	19
<u>vlan.interface.detach</u> .....	19
<u>vlan.interface.list</u> .....	20
<u>vlan.list</u> .....	20
<u>vlan.update</u> .....	20

# **src.ielo.net - Sinn XMLRPC API 1.0.0** **Documentation**

---

# Table of Contents

- Sinn XMLRPC API 1.0.0
  - ◆ Methods Index
  - ◆ Methods List
    - ◇ api.version
    - ◇ interface.attributes
    - ◇ interface.create
    - ◇ interface.delete
    - ◇ interface.ipaddress.attach
    - ◇ interface.ipaddress.detach
    - ◇ interface.ipaddress.list
    - ◇ interface.list
    - ◇ interface.types.list
    - ◇ interface.update
    - ◇ ipaddress.attributes
    - ◇ ipaddress.create
    - ◇ ipaddress.delete
    - ◇ ipaddress.list
    - ◇ ipaddress.update
    - ◇ machine.attributes
    - ◇ machine.boot
    - ◇ machine.cputype.list
    - ◇ machine.create
    - ◇ machine.delete
    - ◇ machine.interface.attach
    - ◇ machine.interface.detach
    - ◇ machine.interface.list
    - ◇ machine.list
    - ◇ machine.migrate
    - ◇ machine.shutdown
    - ◇ machine.storage.attach
    - ◇ machine.storage.bustype.list
    - ◇ machine.storage.detach
    - ◇ machine.storage.list
    - ◇ machine.update
    - ◇ machine.vnc.keymap.list
    - ◇ sitegroup.list
    - ◇ storage.attributes
    - ◇ storage.clone
    - ◇ storage.clone config
    - ◇ storage.clone data
    - ◇ storage.create
    - ◇ storage.delete
    - ◇ storage.list
    - ◇ storage.update
    - ◇ system.listMethods
    - ◇ system.methodHelp
    - ◇ system.methodSignature
    - ◇ vlan.attributes

- ◇ [vlan.create](#)
  - ◇ [vlan.delete](#)
  - ◇ [vlan.interface.attach](#)
  - ◇ [vlan.interface.detach](#)
  - ◇ [vlan.interface.list](#)
  - ◇ [vlan.list](#)
  - ◇ [vlan.update](#)
- 

## Sinn XMLRPC API 1.0.0

### Methods Index

#### A

- [api.version](#)

#### I

- [interface.attributes](#)
- [interface.create](#)
- [interface.delete](#)
- [interface.ipaddress.attach](#)
- [interface.ipaddress.detach](#)
- [interface.ipaddress.list](#)
- [interface.list](#)
- [interface.types.list](#)
- [interface.update](#)
- [ipaddress.attributes](#)
- [ipaddress.create](#)
- [ipaddress.delete](#)
- [ipaddress.list](#)
- [ipaddress.update](#)

#### S

- [sitegroup.list](#)
- [storage.attributes](#)
- [storage.clone](#)
- [storage.clone\\_config](#)
- [storage.clone\\_data](#)
- [storage.create](#)
- [storage.delete](#)
- [storage.list](#)
- [storage.update](#)
- [system.listMethods](#)
- [system.methodHelp](#)
- [system.methodSignature](#)

#### M

- [machine.attributes](#)
- [machine.boot](#)
- [machine.cputype.list](#)
- [machine.create](#)
- [machine.delete](#)
- [machine.interface.attach](#)
- [machine.interface.detach](#)
- [machine.interface.list](#)
- [machine.list](#)
- [machine.migrate](#)
- [machine.shutdown](#)
- [machine.storage.attach](#)
- [machine.storage.bustype.list](#)
- [machine.storage.detach](#)
- [machine.storage.list](#)
- [machine.update](#)
- [machine.vnc.keymap.list](#)

## V

- [vlan.attributes](#)
- [vlan.create](#)
- [vlan.delete](#)
- [vlan.interface.attach](#)
- [vlan.interface.detach](#)
- [vlan.interface.list](#)
- [vlan.list](#)
- [vlan.update](#)

## Methods List

[go to index](#)

### api.version

string api.version()

#### Parameters

#### Description

Get the API version.

[go to index](#)

### interface.attributes

array interface.attributes( bool onlyMutables)

#### Parameters

- onlyMutables bool (optionnal) filters unmutable attributes.

## Description

List attributes of an interface.

Possible attributes are :

- label : immutable, string
- macAddr : immutable, string
- model : mutable, string, default=virtio
- packetIn : immutable, integer
- packetOut : immutable, integer
- byteIn : immutable, integer
- byteOut : immutable, integer

See also:

- [interface.types.list](#)

[go to index](#)

## interface.create

none interface.create( string sitegroup , string label , struct attributes )

### Parameters

- sitegroup string associated sitegroup.
- label string label of the new interface.
- attributes struct (optionnal) attributes.

## Description

Create an interface.

An interface is a virtual network card.

See also:

- [interface.attributes](#)
- [interface.ipaddress.attach](#)
- [interface.ipaddress.detach](#)
- [machine.interface.attach](#)
- [machine.interface.detach](#)
- [vlan.interface.detach](#)
- [vlan.interface.detach](#)

[go to index](#)

## interface.delete

none interface.delete( string sitegroup, string label)

### Parameters

interface.attributes

- sitegroup string associated sitegroup.
- label string label of the interface.

### Description

Delete an interface.

[go to index](#)

### interface.ipaddress.attach

none interface.ipaddress.attach( string sitegroup , string label , string ipaddress )

#### Parameters

- sitegroup string associated sitegroup.
- label string label of the interface.
- ipaddress string label of ipaddress to attach.

### Description

Attach an ipaddress to an interface.

[go to index](#)

### interface.ipaddress.detach

none interface.ipaddress.detach( string sitegroup , string label , string ipaddress )

#### Parameters

- sitegroup string associated sitegroup.
- label string label of the interface.
- ipaddress string label of ipaddress to detach.

### Description

Detach an ipaddress from an interface.

[go to index](#)

### interface.ipaddress.list

array interface.ipaddress.list( string sitegroup , string label , nonelstringlarray ipaddress )

#### Parameters

- sitegroup string associated sitegroup.
- label string label of the interface.
- ipaddress nonelstringlarray (optionnal) label(s) of the ipaddress(es).

### Description

List interface's attached ipaddress(es) : detailed if label(s), general if not.

interface.delete

[go to index](#)

### **interface.list**

array interface.list( string sitegroup, nonelstring|array label)

#### **Parameters**

- sitegroup string associated sitegroup
- label nonelstring|array (optionnal) label(s) of the interface(s).

#### **Description**

List interface(s).

If no label, list all sitegroup interfaces labels.

Else, list interfaces indexed by label in a struct compound of :

- siteGroup : string name of asociated siteGroup.
- machine : struct compound of label and current status of attached machine(s).
- vlan : struct compound of label and tag of attached vlan.
- ip : array of attached ip label(s)

[go to index](#)

### **interface.types.list**

array interface.types.list( string sitegroup)

#### **Parameters**

- sitegroup string to have the list related to.

#### **Description**

List network interface types (eg: virtio, ne2000, ...).

[go to index](#)

### **interface.update**

none interface.update( string sitegroup , string label , struct attributes )

#### **Parameters**

- sitegroup string associated sitegroup.
- label string label of the interface.
- attributes struct (optionnal) attributes to update.

#### **Description**

Update mutable attributes of an interface.

**See also:**

interface.ipaddress.list

- [interface.attributes](#)
- [interface.create](#)

[go to index](#)

### **ipaddress.attributes**

array ipaddress.attributes( bool onlyMutables)

#### **Parameters**

- onlyMutables bool (optionnal) filters unmutable attributes.

#### **Description**

List of attributes of a ipaddress.

Possible attributes are :

- label : unmutable, string
- addr : unmutable string, IP address
- reverse : mutable, string, default=None

[go to index](#)

### **ipaddress.create**

none ipaddress.create( string sitegroup, string label, struct attributes)

#### **Parameters**

- sitegroup string associated sitegroup.
- label string label of the new ipaddress.
- attributes struct (optionnal) attributes.

#### **Description**

Create an ipaddress.

**Note:** ipaddress is dynamic, so you have to specify kind of IP Family you want to obtain in attributes : family=ipv4 or family=ipv6.

**See also:**

- [ipaddress.attributes](#)

[go to index](#)

### **ipaddress.delete**

none ipaddress.delete( string sitegroup , string label )

#### **Parameters**

interface.update

- sitegroup string associated sitegroup.
- label string label of ipaddress.

### **Description**

Destroy an ipaddress

[go to index](#)

### **ipaddress.list**

array ipaddress.list( string sitegroup , string label )

#### **Parameters**

- sitegroup string associated sitegroup.
- label string (optionnal) label of ipaddress.

### **Description**

List network ipaddresses.

[go to index](#)

### **ipaddress.update**

none ipaddress.update()

#### **Description**

[go to index](#)

### **machine.attributes**

array machine.attributes( boolean onlyMutables)

#### **Parameters**

- onlyMutables boolean (optionnal) filters unmutable attributes.

### **Description**

List attributes of a machine.

Possible attributes are :

- label : unmutable, string
- vcpu : mutable, integer, default=1
- cpu : mutable, integer, default=x86-64bit
- memory : mutable, string, default=1024M

- vnc (substruct) : password(mutable, string, default=None), keymap(mutable, string, default=en-us)  
[go to index](#)

### **machine.boot**

none machine.boot( string sitegroup , string label )

#### **Parameters**

- sitegroup string associated sitegroup.
- label string label of the machine.

#### **Description**

Boot a machine.

The machine can boot only if it has :

- An interface.
- At least a bootable storage.
- All of its storages are ready.

[go to index](#)

### **machine.cputype.list**

array machine.cputype.list( string sitegroup)

#### **Parameters**

- sitegroup string associated sitegroup.

#### **Description**

List cpu types.

[go to index](#)

### **machine.create**

none machine.create( string sitegroup , string label , struct attributes )

#### **Parameters**

- sitegroup string associated sitegroup.
- label string label of the new machine.
- attributes struct (optionnal) attributes.

#### **Description**

Create a machine.

The machine is a GNU/Linux kvm virtual machine instance.

**See also:**

machine.attributes

- [machine.attributes](#)

[go to index](#)

### **machine.delete**

none machine.delete( string sitegroup , string label )

#### **Parameters**

- sitegroup string associated sitegroup.
- label string label of the machine.

#### **Description**

Delete a machine.

Attached resources (interface, storage, ...) must be detached first.

[go to index](#)

### **machine.interface.attach**

none machine.interface.attach( string sitegroup , string label , string interface )

#### **Parameters**

- sitegroup string associated sitegroup.
- label string label of the machine.
- interface string label of interface to attach.

#### **Description**

Attach an interface to a machine.

[go to index](#)

### **machine.interface.detach**

none machine.interface.detach( string sitegroup , string label , string interface )

#### **Parameters**

- sitegroup string associated sitegroup.
- label string label of the machine.
- interface string label of interface to detach.

#### **Description**

Detach an interface from a machine.

[go to index](#)

machine.create

### **machine.interface.list**

array machine.interface.list( string sitegroup , string label , nonelstringlarray interface )

#### **Parameters**

- sitegroup string associated sitegroup.
- label string label of the machine.
- interface nonelstringlarray (optionnal) label(s) of the interface(s).

#### **Description**

List machine's attached interface(s).  
Detailed if label(s), general if not.

[go to index](#)

### **machine.list**

array machine.list( string sitegroup , nonelstringlarray label )

#### **Parameters**

- sitegroup string associated sitegroup.
- label nonelstringlarray (optionnal) label(s) of the machine(s).

#### **Description**

List machine(s).  
Detailed if label(s), general if not.

[go to index](#)

### **machine.migrate**

none machine.migrate( string sitegroup , string label , string hostnode )

#### **Parameters**

- sitegroup string associated sitegroup.
- label string machine's label.
- hostnode string machine destination node label.

#### **Description**

Migrate a machine.  
The machine can only migrate to another node than the one it runs.

[go to index](#)

### **machine.shutdown**

none machine.shutdown( string sitegroup , string label )

#### **Parameters**

machine.interface.list

- sitegroup string associated sitegroup.
- label string label of the machine.

### Description

Shutdown a machine.

[go to index](#)

### machine.storage.attach

none machine.storage.attach( string sitegroup , string label , string storage , nonelstruct attributes )

#### Parameters

- sitegroup string associated sitegroup.
- label string label of the machine.
- storage string label of storage to attach.
- attributes nonelstruct (optionnal) array attributes.

### Description

Attach a storage volume to a virtual machine.

Possible attributes are :

- bus (default : virtio)
- media (default : disk)
- readOnly (default : False)
- bootOrder (default : 1)
- bootable (default: False)

[go to index](#)

### machine.storage.bustype.list

array machine.storage.bustype.list( string sitegroup)

#### Parameters

- sitegroup string label of associated sitegroup.

### Description

List storage bus types.

[go to index](#)

### machine.storage.detach

none machine.storage.detach( string sitegroup , string label , string storage )

#### Parameters

- sitegroup string associated sitegroup.

machine.shutdown

- label string label of the machine.
- storage string label of storage to detach.

### Description

Detach a storage from a machine.

[go to index](#)

### machine.storage.list

array machine.storage.list( string sitegroup , string label , nonelstringlarray storage )

#### Parameters

- sitegroup string associated sitegroup.
- label string label of the machine.
- storage nonelstringlarray (optionnal) label(s) of the storage(s).

### Description

List machine's attached storage(s)  
Detailed if label(s), general if not.

[go to index](#)

### machine.update

none machine.update( string sitegroup , string label , struct attributes )

#### Parameters

- sitegroup string associated sitegroup.
- label string label of the machine.
- attributes struct (optionnal) attributes.

### Description

Update mutable attributes of a machine.

#### See also:

- [machine.attributes](#)
- [machine.create](#)

[go to index](#)

### machine.vnc.keymap.list

array machine.vnc.keymap.list( string sitegroup)

#### Parameters

- sitegroup string associated sitegroup.

machine.storage.detach

## Description

List vnc keymaps.

[go to index](#)

## sitegroup.list

none sitegroup.list( nonelstring|array label)

### Parameters

- label nonelstring|array (optionnal) sitegroup label

## Description

List sitegroups.

[go to index](#)

## storage.attributes

array storage.attributes( bool onlyMutables)

### Parameters

- onlyMutables bool (optionnal) filters unmutable attributes.

## Description

List of attributes of a storage.

Possible attributes are :

- label : unmutable
- size : unmutable, string, default=1G
- public : mutable, bool, default=False

[go to index](#)

## storage.clone

none storage.clone( string sitegroup , string label , string from\_label )

### Parameters

- sitegroup string associated sitegroup.
- label string label of the storage.
- from\_label string label of the storage to clone.

## Description

Composite call of storage\_cloneconfig and storage\_clonedata

machine.vnc.keymap.list

**See also:**

- [storage.clone\\_config](#)
- [storage.clone\\_data](#)

[go to index](#)

### **storage.clone\_config**

none storage.clone\_config( string sitegroup , string label , string from\_label )

**Parameters**

- sitegroup string associated sitegroup.
- label string label of the storage.
- from\_label string label of the storage to clone.

**Description**

Create from an existant storage a new empty one with same size/sitegroup.

[go to index](#)

### **storage.clone\_data**

none storage.clone\_data( string sitegroup , string label , string from\_label )

**Parameters**

- sitegroup string associated sitegroup.
- label string label of the storage.
- from\_label string label of the storage to clone.

**Description**

Clone data of a storage to another storage.

[go to index](#)

### **storage.create**

none storage.create( string sitegroup , string label , attributes attributes )

**Parameters**

- sitegroup string associated sitegroup.
- label string label of the new storage.
- attributes attributes struct.

**Description**

Create a storage volume.

**See also:**

- [storage.attributes](#)

[go to index](#)

**storage.delete**

none storage.delete( string sitegroup , string label )

**Parameters**

- sitegroup string associated sitegroup.
- label string label of the storage.

**Description**

Delete a storage, must not be attached to any machine.

[go to index](#)

**storage.list**

array|struct storage.list( string sitegroup , (optionnal) label )

**Parameters**

- sitegroup string associated sitegroup.
- label (optionnal) string|array label(s) of the storage(s).

**Description**

List storage(s) : detailed if label(s), general if not.

[go to index](#)

**storage.update**

none storage.update( string sitegroup , string label , struct attributes )

**Parameters**

- sitegroup string associated sitegroup.
- label string label of the storage.
- attributes struct (optionnal) attributes.

**Description**

Update mutables attributes of a storage.

**See also:**

- [storage.attributes](#)
- [storage.create](#)

storage.create

[go to index](#)

### **system.listMethods**

none system.listMethods()

#### **Description**

Return a list of the method names implemented by this server.

[go to index](#)

### **system.methodHelp**

none system.methodHelp()

#### **Description**

Return a documentation string describing the use of the given method.

[go to index](#)

### **system.methodSignature**

none system.methodSignature()

#### **Description**

Return a list of type signatures.

Each type signature is a list of the form [rtype, type1, type2, ...] where rtype is the return type and typeN is the type of the Nth argument. If no signature information is available, the empty string is returned.

[go to index](#)

### **vlan.attributes**

array vlan.attributes( bool onlyMutables)

#### **Parameters**

- onlyMutables bool (optionnal) filters unmutable attributes.

#### **Description**

List attributes of a vlan.

Possible attributes are :

- label : unmutable, string
- tag : unmutable, integer, default=1

storage.update

[go to index](#)

### **vlan.create**

none vlan.create( string sitegroup , string label )

#### **Parameters**

- sitegroup string associated sitegroup label.
- label string vlan label.

#### **Description**

Create a tagged vlan.

[go to index](#)

### **vlan.delete**

none vlan.delete( string sitegroup , string label )

#### **Parameters**

- sitegroup string associated sitegroup label.
- label string vlan label.

#### **Description**

Destroy a vlan.

[go to index](#)

### **vlan.interface.attach**

none vlan.interface.attach( string sitegroup , string label , string interface )

#### **Parameters**

- sitegroup string associated sitegroup label.
- label string vlan label.
- interface string interface label.

#### **Description**

Attach an interface to a vlan.

[go to index](#)

### **vlan.interface.detach**

none vlan.interface.detach( string sitegroup , string label , string interface )

#### **Parameters**

- sitegroup string associated sitegroup label.

vlan.attributes

- label string vlan label.
- interface string interface label.

### Description

Restore interface attachment to default vlan.

[go to index](#)

### **vlan.interface.list**

array vlan.interface.list( string sitegroup , string label , nonelstringlarray interface )

#### Parameters

- sitegroup string associated sitegroup.
- label string label of the vlan.
- interface nonelstringlarray label(s) of the interface(s).

### Description

List vlan's attached interface(s)  
Detailed if interface(s) label(s), general if not.

[go to index](#)

### **vlan.list**

array vlan.list( string sitegroup , nonelstringlarray label )

#### Parameters

- sitegroup string associated sitegroup label.
- label nonelstringlarray vlan label.

### Description

List virtual networks.

[go to index](#)

### **vlan.update**

none vlan.update( string sitegroup , string label , struct attributes )

#### Parameters

- sitegroup string associated sitegroup.
- label string label of the vlan.
- attributes struct (optionnal) attributes.

### Description

Update mutable attributes of a vlan.

vlan.interface.detach

**See also:**

- [vlan.attributes](#)
- [vlan.create](#)