

# API Documentation

API Documentation

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# 1 Package curator

## 1.1 Modules

- **etc** (*Section 2, p. 3*)
  - **MARC**: Importer and exporter for the subset of MARC format covered by infoscience. (*Section 3, p. 4*)
- **lib** (*Section 4, p. 9*)
  - **authentication** (*Section 5, p. 10*)
  - **authentication\_invenio** (*Section 6, p. 11*)
  - **exporter** (*Section 7, p. 12*)
  - **exporter\_invenio** (*Section 8, p. 13*)
  - **importer** (*Section 9, p. 15*)
  - **importer\_invenio** (*Section 10, p. 16*)
  - **logger** (*Section 11, p. 17*)
  - **main** (*Section 12, p. 18*)
  - **modules** (*Section 13, p. 19*)
    - \* **load\_notice** (*Section 14, p. 20*)
      - **importer** (*Section 15, p. 21*)
  - **url\_handler** (*Section 16, p. 22*)
- **sample** (*Section 17, p. 23*)
- **www** (*Section 18, p. 24*)
  - **default** (*Section 19, p. 25*)
  - **modules** (*Section 20, p. 26*)
    - \* **load\_notice** (*Section 21, p. 27*)
      - **show\_notices** (*Section 22, p. 28*)

## 2 Package curator.etc

### 2.1 Modules

- **MARC**: Importer and exporter for the subset of MARC format covered by infoscience.  
(*Section 3, p. 4*)

### 3 Module curator.etc.MARC

Importer and exporter for the subset of MARC format covered by infoscience.

#### 3.1 Functions

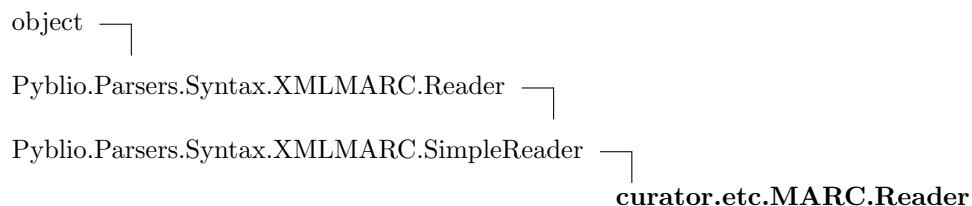
<p><b>mkmap</b>(<i>db</i>, <i>group</i>)</p> <p>Convenience function to manipulate enumerated fields. For instance, to manipulate a document's type, you can do:</p> <pre>doctype = mkmap (db, 'doctype')</pre> <pre>record ['doctype'] = doctype ['ARTICLE']</pre> <p><b>Parameters</b></p> <p><b>db:</b> the database containing the records (<i>type=instance of Pyblio.Store.Database</i>)</p> <p><b>group:</b> the name of a taxonomy managed by the database (<i>type=string</i>)</p> <p><b>Return Value</b></p> <p>a mapping between names and instances of <code>Pyblio.Attribute.Txo</code>.</p>
---

<p><b>parse</b>(<i>fd</i>, <i>db=None</i>, <i>quiet=False</i>)</p>
--

#### 3.2 Variables

Name	Description
root	<b>Value:</b> '/usr/lib/python2.5/site-packages/framework-1.0-py2.5.egg...
mapping	<b>Value:</b> {1: 'record-id', (13, '', '', 'a'): 'patent-nr', (20, '', ...

#### 3.3 Class Reader



MARC parser for infoscience's specific tags.

This MARC parser handles the MARC fields used by infoscience, including the non-standard local tags.

Usually, this class is instantiated by the `parse` function.

### 3.3.1 Methods

**\_\_init\_\_**(*self*, *map*={1: 'record-id', (13, '', '', 'a'): 'patent-nr', (20, '', ..., *quiet*=False)

*x.\_\_init\_\_*(...) initializes *x*; see *x.\_\_class\_\_.\_\_doc\_\_* for signature

Overrides: Pyblio.Parsers.Syntax.XMLMARC.SimpleReader.\_\_init\_\_

**parse**(*self*, *fd*, *db*)

Overrides: Pyblio.Parsers.Syntax.XMLMARC.SimpleReader.parse

**record\_begin**(*self*)

Overrides: Pyblio.Parsers.Syntax.XMLMARC.Reader.record\_begin

**record\_end**(*self*)

Overrides: Pyblio.Parsers.Syntax.XMLMARC.Reader.record\_end

**do\_980**(*self*, *maj*, *ind1*, *ind2*, *values*)

**do\_024**(*self*, *maj*, *ind1*, *ind2*, *values*)

**do\_773**(*self*, *maj*, *ind1*, *ind2*, *values*)

**do\_520**(*self*, *maj*, *ind1*, *ind2*, *values*)

**do\_440**(*self*, *maj*, *ind1*, *ind2*, *values*)

**do\_260**(*self*, *maj*, *ind1*, *ind2*, *values*)

**do\_245**(*self*, *maj*, *ind1*, *ind2*, *values*)

**do\_973**(*self*, *maj*, *ind1*, *ind2*, *values*)

**do\_700**(*self*, *maj*, *ind1*, *ind2*, *values*)

**do\_852**(*self*, *maj*, *ind1*, *ind2*, *values*)

**do\_856**(*self*, *maj*, *ind1*, *ind2*, *values*)

**person\_add**(*self*, *field*, *value*)

Overrides: Pyblio.Parsers.Syntax.XMLMARC.SimpleReader.person\_add

**text\_add**(*self*, *field*, *value*)

Overrides: Pyblio.Parsers.Syntax.XMLMARC.SimpleReader.text\_add

**date\_add**(*self*, *field*, *value*)

Overrides: Pyblio.Parsers.Syntax.XMLMARC.SimpleReader.date\_add

**do\_unknown**(*self, tag, ind1, ind2, key, value*)  
 Overrides: Pyblio.Parsers.Syntax.XMLMARC.SimpleReader.do\_unknown

**\_\_delattr\_\_**(...)  
 x.\_\_delattr\_\_('name') <==> del x.name

**\_\_getattr\_\_**(...)  
 x.\_\_getattr\_\_('name') <==> x.name

**\_\_hash\_\_**(*x*)  
 hash(x)

**\_\_new\_\_**(*T, S, ...*)  
**Return Value**  
 a new object with type S, a subtype of T

**\_\_reduce\_\_**(...)  
 helper for pickle

**\_\_reduce\_ex\_\_**(...)  
 helper for pickle

**\_\_repr\_\_**(*x*)  
 repr(x)

**\_\_setattr\_\_**(...)  
 x.\_\_setattr\_\_('name', value) <==> x.name = value

**\_\_str\_\_**(*x*)  
 str(x)

**do\_control**(*self, field, value*)  
 Overrides: Pyblio.Parsers.Syntax.XMLMARC.Reader.do\_control

**do\_default**(*self, tag, ind1, ind2, values*)  
 Overrides: Pyblio.Parsers.Syntax.XMLMARC.Reader.do\_default

**id\_add**(*self, field, value*)

**skip**(*self, field, value*)

<code>url_add(self, field, value, q={})</code>
--

### 3.3.2 Properties

Name	Description
<code>__class__</code>	<b>Value:</b> <attribute <code>'__class__'</code> of <code>'object'</code> objects>

### 3.3.3 Class Variables

Name	Description
<code>log</code>	<b>Value:</b> <code>logging.getLogger('pyblio.import.xmlmarc')</code>

## 3.4 Class *Writer*



Export to XML MARC format.

### 3.4.1 Methods

<code>add(self, code, **kval)</code> Overrides: <code>Pyblio.Parsers.Syntax.XMLMARC.Writer.add</code>
--

<code>record_parse(self, rec)</code> Overrides: <code>Pyblio.Parsers.Syntax.XMLMARC.Writer.record_parse</code>
---

<code>__delattr__(...)</code> <code>x.__delattr__('name') &lt;==&gt; del x.name</code>
---

<code>__getattr__(...)</code> <code>x.__getattr__('name') &lt;==&gt; x.name</code>
---

<code>__hash__(x)</code> <code>hash(x)</code>
--

<code>__init__(...)</code> <code>x.__init__(...)</code> initializes <code>x</code> ; see <code>x.__class__.__doc__</code> for signature
--



<b>__new__</b> ( <i>T, S, ...</i> ) <b>Return Value</b> a new object with type <i>S</i> , a subtype of <i>T</i>
---

<b>__reduce__</b> ( <i>...</i> ) <hr/> helper for pickle
---

<b>__reduce_ex__</b> ( <i>...</i> ) <hr/> helper for pickle
--

<b>__repr__</b> ( <i>x</i> ) <hr/> repr( <i>x</i> )
--

<b>__setattr__</b> ( <i>...</i> ) <hr/> <i>x</i> .__setattr__('name', value) <==> <i>x</i> .name = value
---

<b>__str__</b> ( <i>x</i> ) <hr/> str( <i>x</i> )
--

<b>begin</b> ( <i>self</i> )
------------------------------

<b>control_add</b> ( <i>self, code, val</i> )
---

<b>end</b> ( <i>self</i> )
----------------------------

<b>single</b> ( <i>self, rec, field</i> )
---

<b>write</b> ( <i>self, fd, rs, db</i> )
--

### 3.4.2 Properties

Name	Description
<code>__class__</code>	<b>Value:</b> <attribute ' <code>__class__</code> ' of 'object' objects>

### 3.4.3 Class Variables

Name	Description
<code>parameters</code>	<b>Value:</b> ()
<code>log</code>	<b>Value:</b> <code>logging.getLogger('pyblio.export.xmlmarc')</code>

## 4 Package curator.lib

### 4.1 Modules

- **authentication** (Section 5, p. 10)
- **authentication\_invenio** (Section 6, p. 11)
- **exporter** (Section 7, p. 12)
- **exporter\_invenio** (Section 8, p. 13)
- **importer** (Section 9, p. 15)
- **importer\_invenio** (Section 10, p. 16)
- **logger** (Section 11, p. 17)
- **main** (Section 12, p. 18)
- **modules** (Section 13, p. 19)
  - **load\_notice** (Section 14, p. 20)
  - \* **importer** (Section 15, p. 21)
- **url\_handler** (Section 16, p. 22)

### 4.2 Functions

**newdb**(*store=None, file=None, args={}*)

Create a new empty database.

The database uses the infoscience schema of data.

**Return Value**

a new database

(*type=an instance of Pyblio.Store.Database*)

## 5 Module *curator.lib.authentication*

### 5.1 Class authentication

**Known Subclasses:** *curator.lib.authentication\_invenio.authentication\_invenio*

Abstract generic class for the authentication on Curator

#### 5.1.1 Methods

<b><code>__init__(self)</code></b>
------------------------------------

<b><code>login(self)</code></b>
---------------------------------

Abstract generic method for the login on Curator
--

## 6 Module curator.lib.authentication\_invenio

### 6.1 Class authentication\_invenio

curator.lib.authentication.authentication —  
 curator.lib.authentication\_invenio.authentication\_invenio

Authentication\_invenio is the derivated class of authentication. It's specialised it and offers tools to log a user on Invenio.

#### 6.1.1 Methods

**\_\_init\_\_(self, logger)**

**Parameters**

**logger:** Define a logger to store all events  
**username:** The username of the user of Curator to log in on Invenio  
**password:** The password of the user of Curator to log in on Invenio  
**right:** The right of the user of Curator which is log in on Invenio

Overrides: curator.lib.authentication.authentication.\_\_init\_\_

**login(self, login, password)**

The login method use a web service to connect on Invenio. After this, it checks the right of the user with the username and the password given.

**Parameters**

**login:** The username that the user has given in the forms  
**password:** The password that the user has given in the forms

**Return Value**

The right of this user. Admin, curateur... or maybe any right

Overrides: curator.lib.authentication.authentication.login

#### 6.1.2 Class Variables

Name	Description
logger	<b>Value:</b> None
password	<b>Value:</b> None
right	<b>Value:</b> None
username	<b>Value:</b> None

## 7 Module *curator.lib.exporter*

### 7.1 Class exporter

**Known Subclasses:** *curator.lib.exporter\_invenio.exporter\_invenio*

Abstract generic class to export data from Curator to another platform like Invenio

#### 7.1.1 Methods

<b><code>__init__(self)</code></b>
------------------------------------

<b><code>insert(self)</code></b>
----------------------------------

Abstract generic method to insert data on the distant platform
--

<b><code>update(self)</code></b>
----------------------------------

Abstract generic method to update data on the distant platform
--

<b><code>delete(self)</code></b>
----------------------------------

Abstract generic method to delete data on the distant platform
--

## 8 Module *curator.lib.exporter\_invenio*

### 8.1 Class *exporter\_invenio*

```
curator.lib.exporter.exporter └─┬
                               └─┬ curator.lib.exporter_invenio.exporter_invenio
```

This class provide some method to export data from Curator to Invenio. These exports can be an insert, an update or a delete.

The connexion with Invenio is made with a web service. The method give a "bibupload" order to Invenio through the web service. With specificaly parameters and the XML MARC, Invenio update his database.

#### 8.1.1 Methods

<b>__init__</b> ( <i>self</i> , <i>session</i> ) Overrides: <i>curator.lib.exporter.exporter.__init__</i>
--

<b>insert</b> ( <i>self</i> , <i>xml_marc</i> )
Insert one or more new notice in Invenio through the web service. The data are given in XML MARC format. The order which is passed to Invenio is a "bibupload -i"
<b>Parameters</b> <i>xml_marc</i> : It's the XML MARC dataflows that will be sent to Invenio
<b>Return Value</b> It's an acknowledgment for the deroulment of the process at side of Invenio
Overrides: <i>curator.lib.exporter.exporter.insert</i>

<b>update</b> ( <i>self</i> , <i>xml_marc</i> )
Update one or more new notice in Invenio through the web service. The data are given in XML MARC format. The order which is passed to Invenio is a "bibupload -?"
<b>Parameters</b> <i>xml_marc</i> : It's the XML MARC dataflows that will be sent to Invenio
<b>Return Value</b> It's an acknowledgment for the deroulment of the process at side of Invenio
Overrides: <i>curator.lib.exporter.exporter.update</i>

<b>delete</b> ( <i>self</i> , <i>xml_marc</i> )
Delete one or more new notice in Invenio through the web service. The data are given in XML MARC format. The order which is passed to Invenio is a "bibupload -r"
<b>Parameters</b> <i>xml_marc</i> : It's the XML MARC dataflows that will be sent to Invenio
<b>Return Value</b> It's an acknowledgment for the deroulment of the process at side of Invenio
Overrides: <i>curator.lib.exporter.exporter.delete</i>

### 8.1.2 Class Variables

Name	Description
url	<b>Value:</b> 'https://path_to_Invenio:XX/path_to_webservice'
namespace	<b>Value:</b> 'namespace_of_webservice'

## 9 Module *curator.lib.importer*

### 9.1 Class importer

**Known Subclasses:** *curator.lib.importer\_invenio.importer\_invenio*

Abstract generic class to import data on Curator

#### 9.1.1 Methods

<code><b>__init__</b>(<i>self</i>)</code>
---

<code><b>get_data</b>(<i>self</i>)</code>
---

Abstract generic method for search data on the platform who's connect with Curator
--



## 10 Module `curator.lib.importer_invenio`

### 10.1 Class `importer_invenio`

`curator.lib.importer.importer` └─  
                                   **`curator.lib.importer_invenio.importer_invenio`**

This class provide a method to import data from Invenio to Curator.

The connexion with Invenio is made with a web service.

#### 10.1.1 Methods

**`__init__(self, session)`**

**Parameters**

**db:** It's a temporary database of Pybliographer's type. With it, Pybliographer can make some traitments on the data which is imports from Invenio.

Overrides: `curator.lib.importer.importer.__init__`

**`search(self, field, pattern)`**

Search data on Invenio for any Curator modules and return it in XML MARC format.

**Parameters**

**field:** It's the field on which we want make the search.

**pattern:** It's the pattern which the field must be according to.

**Return Value**

A Pybliographer database (XML MARC) with the notices corresponding to the search.

**`xml_marc_to_pyblbio(self, xml_marc)`**

Temporary method to tranform the imported XML MARC. It take car to put the XML MARC in a Pybliographer database et return this db.

**Parameters**

**xml\_marc:** It's the result from the request to Invenio. It's in XML MARC format.

**Return Value**

Pybliographer database who contains notice from XML MARC.

**`get_data(self)`**

Abstract generic method for search data on the plateforme who's connect with Curator

#### 10.1.2 Class Variables

Name	Description
<code>db</code>	<b>Value:</b> <code>newdb()</code>
<code>url</code>	<b>Value:</b> <code>'https://path_to_Invenio:XX/path_to_webservice'</code>
<code>namespace</code>	<b>Value:</b> <code>'namespace_of_webservice'</code>

## 11 Module `curator.lib.logger`

### 11.1 Functions

#### `my_logger()`

This method is used to save all events that pass in Curator. These events are store in a log file which is in `/opt/curator/var/curator.log`.

#### Parameters

`logger`: It's the instance of logging class of Python.  
`hdlr`: It's used to configure the logging  
`formatter`: It's used to format the logging

#### Return Value

The instance of logging

## 12 Module curator.lib.main

### 12.1 Functions

**choice\_content**(*req, content, args, html, session*)

The choice\_content method choose the content of the page according to the GET variable names "content". His goal it's to load the right page, the right module of Curator.

**Parameters**

**req:** see index() method from Main.  
**content:** It's a variable that comes from GET parameters. She's extract from args. She used to know which content must be appear.  
**args:** see index() method from Main.  
**html:** see index() method from Main.  
**session:** see index() method from Main.

**handler**(*req*)

This method handle the authentication session of user on Curator

**Parameters**

**req:** see index() method from Main.  
**session:** The authentication session to check the rights and the state of the user

**index**(*req, \*\*args*)

Fonction index must be define for the mod\_python knows this is a webpage. Without this method, The browser can't show the page.

**Parameters**

**req:** The "req" param is a predefined object which is passed by Apache with the method index. For more information about req, see :  
<http://www.modpython.org/live/current/doc-html/pyapi-mprequest.html>  
**session:** The authentication session to check right of user  
**html:** Instance of default html page. Use to show header, menu, content & footer.  
**args:** It's an automaticaly generated varibale which contents the GET and POST variable  
**argd:** It's the GET and POST variable from args after parsing and typing

### 12.2 Variables

Name	Description
auth	<b>Value:</b> <curator.lib.authentication_invenio.authentication.in...
logger	<b>Value:</b> <logging.Logger instance at 0x8a22b8c>
sample	<b>Value:</b> '<?xml version="1.0" encoding="UTF-8"?>\n<collection xmln...

## 13 Package curator.lib.modules

### 13.1 Modules

- `load_notice` (*Section 14, p. 20*)
  - `importer` (*Section 15, p. 21*)

## 14 Package curator.lib.modules.load\_notice

### 14.1 Modules

- **importer** (*Section 15, p. 21*)

## 15 Module `curator.lib.modules.load_notice.importer`

### 15.1 Functions

#### `import_notices(logger, session, req)`

This is the entry point of module "load notice", in french "Chargement d'un fichier de notice" This method go to search data from laboratory passed in form and export the xml marc file in Invenio in the good laboratory.

##### Parameters

`logger`: Define a logger to store all events  
`session`: see `index()` method from Main.  
`req`: see `index()` method from Main.

##### Return Value

Return the html content to view the result of execution of the xml marc data export.

#### `xml_marc_to_pyblio(logger, req)`

Temporary method to tranform the imported XML MARC. It take car to put the XML MARC in a Pybliographer database et return this db.

##### Parameters

`logger`: Define a logger to store all events  
`req`: see `index()` method from Main.

##### Return Value

Pybliographer database who contains notice.

#### `do_form()`

Little method that create html form to choose a labo and a xml marc file to export

#### `view(db)`

Method use for view the xml marc file which was upload whit form. Not necessary for the process, it's just for view if the result is correct.

##### Parameters

`db`: Pybliographer database which contain xml marc from file from form

##### Return Value

Return the html content for view the xml marc field

## 16 Module `curator.lib.url_handler`

### 16.1 Functions

**wash\_urlargd**(*form*, *content*)

Wash the complete form based on the specification in *content*. *Content* is a dictionary containing the field names as a key, and a tuple (type, default) as value.

'type' can be list, str, int, tuple, dict or `mod_python.util.Field` (for file uploads).

The specification automatically includes the 'ln' field, which is common to all queries.

Arguments that are not defined in 'content' are discarded.

**Return Value**

a dictionary that can be used for passing function parameters by keywords.

## 17 Module *curator.sample*

### 17.1 Variables

Name	Description
sample	<b>Value:</b> '<?xml version="1.0" encoding="UTF-8"?>\n<collection xmln...



## 18 Package curator.www

### 18.1 Modules

- **default** (*Section 19, p. 25*)
- **modules** (*Section 20, p. 26*)
  - **load\_notice** (*Section 21, p. 27*)
  - \* **show\_notices** (*Section 22, p. 28*)

## 19 Module `curator.www.default`

### 19.1 Class homepage

This class is used to construct the html principal interface of Curator. It contains only some methods who are print html.

#### 19.1.1 Methods

**`__init__(self, req, session)`**

**Parameters**

**req:** see `index()` method from Main.

**session:** see `index()` method from Main.

**`set_session(self, session)`**

Update the local session for instance of homepage

**`do_header(self)`**

Print header for the principal page of Curator

**`do_footer(self)`**

Print footer for the principal page of Curator

**`do_head(self)`**

Print title for the principal page of Curator

**`do_menu(self)`**

Print menu for the principal page of Curator

**`do_submenu(self)`**

Print submenu for the principal page of Curator

**`do_content(self, html_content)`**

Print content for the principal page of Curator

## 20 Package curator.www.modules

### 20.1 Modules

- `load_notice` (*Section 21, p. 27*)
  - `show_notices` (*Section 22, p. 28*)

## 21 Package curator.www.modules.load\_notice

### 21.1 Modules

- `show_notices` (*Section 22, p. 28*)

## 22 Module curator.www.modules.load\_notice.show\_notices

### 22.1 Class show\_notices

This is the html class for load\_notice module of Curator. It takes care of print content for this module.

#### 22.1.1 Methods

**`__init__(self)`**

**Parameters**

**req:** see `index()` method from Main.

**`do_form(self)`**

Print the html form the laboratory and to choice a file of notice to load in.