# **CERN Service XML Documentation**

Release 0.1.2

**CERN** 

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CERN Service XML is a small library to generate a CERN XSLS Service XML.

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# Installation

The CERN Service XML package is on PyPI so all you need is:

\$ pip install cernservicexml

# **Usage**

Creation of XSLS service documents.

Usage:

```
>>> from cernservicexml import ServiceDocument
>>> doc = ServiceDocument('zenodo')
>>> doc.add_numericvalue('users', 1000, desc="Number of users")
>>> xml = doc.to_xml()
```

Publishing of service documents.

Usage:

```
>>> from cernservicexml import ServiceDocument, XSLSPublisher
>>> doc = ServiceDocument('myserviceid')
>>> XSLSPublisher.send(doc)
<Response [200]>
```

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### API

 $\begin{array}{lll} \textbf{class} \; \texttt{cernservicexml.document.ServiceDocument} \; (service\_id, & availability=100, & times-\\ & tamp=None, & availabilitydesc=None, \\ & contact=None, & webpage=None, & availabilityinfo=None) \end{array}$ 

XSLS Service Document class.

#### **Parameters**

- **service\_id** A unique service id.
- availability An integer 0-100 indicating availability of service. Default: 100.
- timestamp Timestamp when the availability was calculated. Must be a datetime object. Default: now.
- availabilitydesc Information about the availability.
- **contact** Service contacts a string.
- webpage Service website (any URI)
- availabilityinfo Information about the service. Can contain HTML.

add\_numericvalue (name, value, desc=None)

Add a numeric value metric.

#### **Parameters**

- name Numeric value id.
- value An integer, float or Decimal object.
- desc A description.

#### to\_xml()

Serialize service document to XML.

class cernservicexml.publisher.XSLSPublisher

Publish a service document to an XSLS service.

classmethod send (document, api\_url=u'http://xsls.cern.ch')

Send service document to XSLS.

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# Changes

Version 0.1.2 (released 2015-06-17)

• Adds support for long (Python 2) integers.

Version 0.1.1 (released 2015-06-17)

- Fixes issues with POST request for sending the service XML to XSLS.
- Adds doctests to ensure documentation examples works.
- Adds XML validation tests according to XSD Schema.

Version 0.1.0 (released 2015-06-16)

• Initial public release.

# Contributing

Bug reports, feature requests, and other contributions are welcome. If you find a demonstrable problem that is caused by the code of this library, please:

- 1. Search for already reported problems.
- 2. Check if the issue has been fixed or is still reproducible on the latest *master* branch.
- 3. Create an issue with a test case.

If you create a feature branch, you can run the tests to ensure everything is operating correctly:

\$ ./run-tests.sh

## License

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### 6.1 Authors

Contact us at info@invenio-software.org

• Lars Holm Nielsen <a href="mailto:lars.holm.nielsen@cern.ch">lars.holm.nielsen@cern.ch</a>

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