
CERN Service XML Documentation

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CERN

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

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, description="Number of users")
>>> xml = doc.to_xml()
```

Publishing of service documents.

Usage:

```
>>> from cernservicexml import ServiceDocument, XSLSPublisher
>>> doc = ServiceDocument('myserviceid')
>>> XSLSPublisher.send(doc)
```

```
class cernservicexml.document.ServiceDocument (service_id,      availability=100,      times-
                                                tamp=None,      availabilitydesc=None,
                                                contact=None,    webpage=None,    avail-
                                                abilityinfo=None)
```

XSL 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 XSL service.

```
classmethod send (document, api_url=u'http://xsls.cern.ch')
```

Send service document to XSL.

Changes

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
```

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