
LDIF

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Sep 19, 2023

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LDIF - PARSE AND GENERATE LDIF DATA (SEE RFC 2849).

This is a fork of the `ldif` module from [python-ldap](#) with python3/unicode support.

One of its benefits is that it's a pure-python package (you don't depend on the `libldap2-dev` (or similar) package that needs to be installed on your laptop / test machine / production server).

See the first entry in changelog below for a more complete list of differences.

This package only support Python 3 (≥ 3.7 , actually).

1.1 Usage

Parse LDIF from a file (or BytesIO):

```
from ldif import LDIFParser
from pprint import pprint

parser = LDIFParser(open("data.ldif", "rb"))
for dn, record in parser.parse():
    print('got entry record: %s' % dn)
    pprint(record)
```

Write LDIF to a file (or BytesIO):

```
from ldif import LDIFWriter

writer = LDIFWriter(open("data.ldif", "wb"))
writer.unparse("mail=alice@example.com", {
    "cn": ["Alice Alison"],
    "mail": ["alice@example.com"],
    "objectclass": ["top", "person"],
})
```

1.2 Unicode support

The stream object that is passed to parser or writer must be an ascii byte stream.

The spec allows to include arbitrary data in base64 encoding or via URL. There is no way of knowing the encoding of this data. To handle this, there are two modes:

By default, the `LDIFParser` will try to interpret all values as UTF-8 and leave only the ones that fail to decode as bytes. But you can also pass an `encoding` of `None` to the constructor, in which case the parser will not try to do any conversion and return bytes directly.

API REFERENCE

CHANGELOG

3.1 4.2.3 (2023-09-19)

- Update dependencies
- Update typing idioms to Python ≥ 3.9 .

3.2 4.2.0 (2023-03-29)

- Update dependencies
- This removes support for Python < 3.9 .

3.3 4.1.2 (2021-10-27)

- Update for Python 3.10.

3.4 4.1.1 (2021-03-04)

- Fix documentation generation -> <https://ldif.readthedocs.io/>.

3.5 4.1.0 (2021-02-16)

- Add type annotations.

3.6 4.0.0 (2019-11-18)

- Take over the maintenance of this package as we need it for our customers (see: <https://github.com/abilian/labandco>).
- Drop Python 2 support.

3.7 3.2.2 (2017-02-07)

- Fix detection of unsafe strings in `unparse` (See #7)

3.8 3.2.1 (2016-12-27)

- Ignore non-unicode characters in “dn” in non-strict mode. (Fixes #5)

3.9 3.2.0 (2016-06-03)

- Overhaul the unicode support to also support binary data (e.g. images) encoded in LDIF.

You can now pass an encoding to the parser which will be used to decode values. If decoding fails, a `bytestring` will be returned. If you pass an encoding of `None`, the parser will not try to do any conversion and return bytes directly.

This change should be completely backwards compatible, as the parser now gracefully handles a case where it crashed previously.

(See #4)

3.10 3.1.1 (2015-09-20)

- Allow empty values for attributes.

3.11 3.1.0 (2015-07-09)

This is mostly a reaction to [python-ldap 2.4.20](#).

- Restore support for `records_read` as well as adding `line_counter` and `byte_counter` that were introduced in `python-ldap 2.4.20`.
- Stricter order checking of `dn`.
- Remove partial support for parsing change records. A more complete implementation based on improvements made in `python-ldap` may be included later. But for now, I don't have the time.

Breaking change: `LDIFParser.parse()` now yields `dn`, `entry` rather than `dn`, `changetype`, `entry`.

3.12 3.0.2 (2015-06-22)

- Include documentation source and changelog in source distribution. (Thanks to Michael Fladischer)
- Add LICENSE file

3.13 3.0.1 (2015-05-22)

- Use OrderedDict for entries.

3.14 3.0.0 (2015-05-22)

This is the first version of a fork of the `ldif` module from [python-ldap](#). For any changes before that, see the documentation over there. The last version before the fork was 2.4.15.

The changes introduced with this version are:

- Dropped support for python < 2.7.
- Added support for python 3, including unicode support.
- All deprecated functions (`CreateLDIF`, `ParseLDIF`) were removed.
- `LDIFCopy` and `LDIFRecordList` were removed.
- `LDIFParser.handle()` was removed. Instead, `LDIFParser.parse()` yields the records.
- `LDIFParser` has now a `strict` option that defaults to `True` for backwards-compatibility. If set to `False`, recoverable parse errors will produce log warnings rather than exceptions.