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# **edeposit.amqp.calibre**

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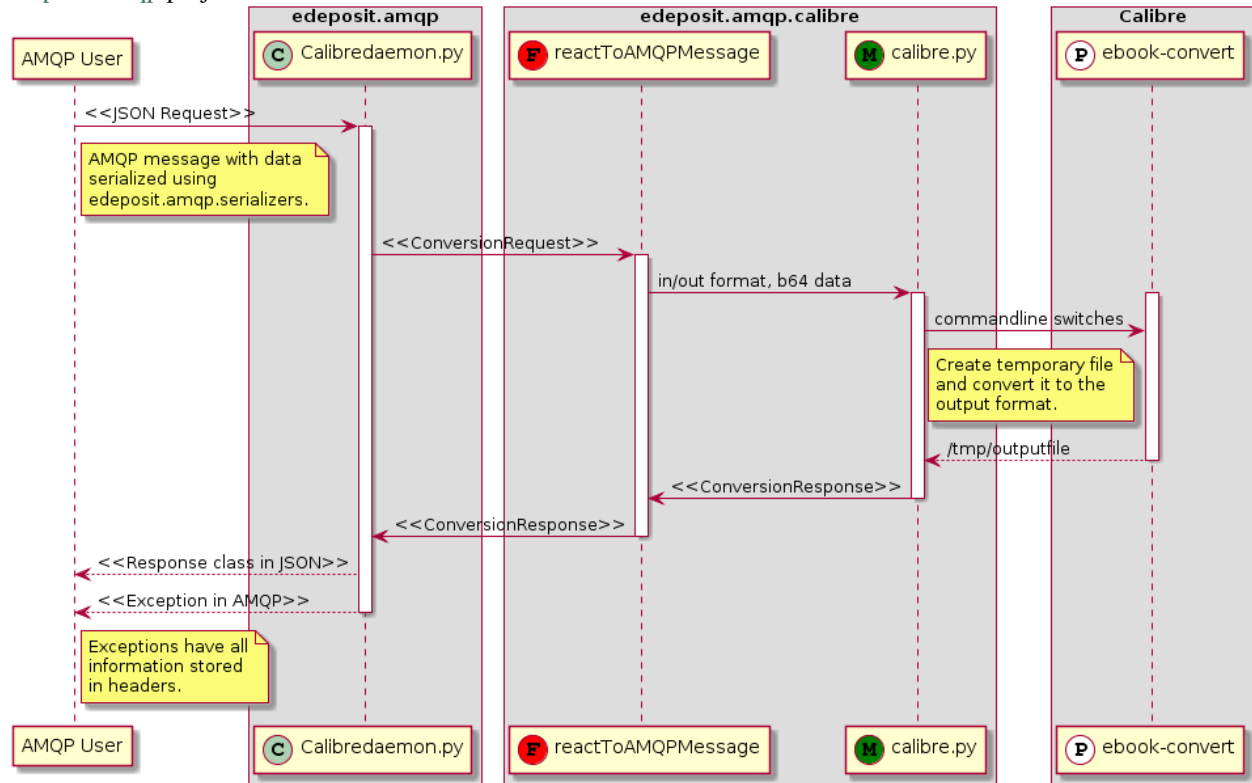


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This module provides wrapper for [Calibre](#), to access it's conversion functions using AMQP protocol.

Module provides only generic wrapper, not AMQP communication itself - that is handled by [Calibre](#) from [edeposit.amqp](#) project.





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# Installation

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Module is hosted at GitHub:

- <https://github.com/edeposit/edeposit.amqp.calibre>

and can be installed using PIP:

```
pip install edeposit.amqp.calibre
```





## API

## 2.1 Data structures

```
edeposit.amqp.calibre.structures.INPUT_FORMATS = ['cbz', 'cbr', 'cbc', 'chm', 'djvu', 'docx', 'epub', 'fb2', 'html']
```

List of available input formats.

`edeposit.amqp.calibre.structures.OUTPUT_FORMATS = ['azw3', 'epub', 'fb2', 'oeb', 'lit', 'lrf', 'mobi', 'htmlz', 'pd']`  
 List of [available output formats](#).

```
class edeposit.amqp.calibre.structures.ConversionRequest (input_format, out-  
 put_format, b64_data)
```

This structure specifies details of AMQP message, which is passed to `reactToAMQPMessage()` as request for conversion.

## Parameters

- **input\_format** (*str*) – See [INPUT\\_FORMATS](#) for list of valid input formats
- **output\_format** (*str*) – See [OUTPUT\\_FORMATS](#) for list of valid output formats.
- **b64\_data** (*base64 str*) – `base64` encoded file.

**Raises** `ValueError` – if invalid input/output format is provided.

**class** `edeposit.amqp.calibre.structures.ConversionResponse`  
Structure is returned as response from `reactToAMQPMessage()`, when the file is converted.

## Parameters

- **type** (*str*) – See `OUTPUT_FORMATS` for details.
- **b64\_data** (*base64 str*) – `base64` encoded converted data.
- **protocol** (*str*) – Protocol of the conversion.

## 2.2 Calibre package

AMQP communication wrapper for calibre's ebook-convert program.

```
edeposit.amqp.calibre.reactToAMQPMessage(message, send_back)
```

React to given (AMQP) message. *message* is usually expected to be `collections.namedtuple()` structure filled with all necessary data.

## Parameters

- **message** (*\*Request class*) – only `ConversionRequest` class is supported right now
- **send\_back** (*fn reference*) – Reference to function for responding. This is useful for progress monitoring for example. Function takes one parameter, which may be response structure/namedtuple, or string or whatever would be normally returned.

**Returns** response filled with data about conversion and converted file.

**Return type** `ConversionResponse`

**Raises** `ValueError` – if bad type of *message* structure is given.

## 2.2.1 Lowlevel access

It is possible to access module directly, by calling python functions to convert data. If you are interested in this way of accessing functions, please look at:

### Calibre convertor

Lowlevel conversion API for calibre's `ebook-convert`.

`edeposit.amqp.calibre.calibre.convert` (*input\_format, output\_format, b64\_data*)  
Convert *b64\_data* from *input\_format* to *output\_format*.

#### Parameters

- **input\_format** (*str*) – Specification of input format (pdf/epub/whatever), see `INPUT_FORMATS` for list.
- **output\_format** (*str*) – Specification of output format (pdf/epub/..), see `OUTPUT_FORMATS` for list.
- **b64\_data** (*str*) – Base64 encoded data.

**Returns** *namedtuple* structure with information about output format, data (*b64\_data*) and protocol from conversion. Structure is defined in `ConversionResponse`.

**Return type** `ConversionResponse`

#### Raises

- `AssertionError` – When bad arguments are handed over.
- `UserWarning` – When conversion failed.

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## Indices and tables

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