
python-rtkit Documentation

Release

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REQUEST TRACKER REST INTERFACE

Best Practical RT (Request Tracker) data access python module for REST interface.

- Installation
- RT REST API Summary
- Authentication Handlers
 - Basic Authentication
 - Cookie-based Authentication
 - Kerberos Authentication
- Overview on Low Level API
 - Create ticket
 - Read a ticket
 - Edit a ticket or ticket's links
 - Comment on a Ticket with Attachments
- License
- References

1.1 Installation

Using pip:

```
$ pip install python-rtkit
```

Using pip dev:

```
$ pip install git+https://github.com/z4r/python-rtkit
```

1.2 RT REST API Summary

More detailed version: [Request Tracker Wiki](#)

01	W	Create ticket	ticket/new
02	RW	Read/Update ticket	ticket/<ticket-id>
03	W	Create ticket comment	ticket/<ticket-id>/comment
04	RW	Read/Update ticket links	ticket/<ticket-id>/links
05	R	Read ticket attachments	ticket/<ticket-id>/attachments
06	R	Read ticket attachment	ticket/<ticket-id>/attachments/<attachment-id>
07	R	Read ticket attachment content	ticket/<ticket-id>/attachments/<attachment-id>/content
08	R	Read ticket history	ticket/<ticket-id>/history
09	R	Read detailed ticket history	ticket/<ticket-id>/history?format=l
10	R	Read ticket history item	ticket/<ticket-id>/history/id/<history-id>
11	R	Read user by id	user/<user-id>
12	R	Read user by name	user/<user-Name>
13	R	Read queue by id	queue/<queue-id>
14	R	Read queue by name	queue/<queue-Name>
15	R	Search tickets	search/ticket?query=<q>&orderby=<o>&format=<f>

1.3 Authentication Handlers

1.3.1 Basic Authentication

```
from rtkit.resource import RTResource
from rtkit.authenticators import BasicAuthenticator
from rtkit.errors import RTResourceError

from rtkit import set_logging
import logging
set_logging('debug')
logger = logging.getLogger('rtkit')

resource = RTResource('http://<HOST>/REST/1.0/', '<USER>', '<PWD>', BasicAuthenticator)
```

1.3.2 Cookie-based Authentication

```
from rtkit.resource import RTResource
from rtkit.authenticators import CookieAuthenticator
from rtkit.errors import RTResourceError

from rtkit import set_logging
import logging
set_logging('debug')
logger = logging.getLogger('rtkit')

resource = RTResource('http://<HOST>/REST/1.0/', '<USER>', '<PWD>', CookieAuthenticator)
```

1.3.3 Kerberos Authentication

```
from rtkit.resource import RTResource
from rtkit.authenticators import KerberosAuthenticator
from rtkit.errors import RTResourceError

from rtkit import set_logging
```

```
import logging
set_logging('debug')
logger = logging.getLogger('rtkit')

resource = RTResource(url, None, None, KerberosAuthenticator)
```

Warning: Remeber to install `urllib2_kerberos`.

1.4 Overview on Low Level API

1.4.1 Create ticket

```
content = {
    'content': {
        'Queue': 1, #'', 2
        'Subject' : 'New Ticket',
        'Text' : 'My useless\ntext on\ntthree lines.',
    }
}

try:
    response = resource.post(path='ticket/new', payload=content,)
    logger.info(response.parsed)
except RTResourceError as e:
    logger.error(e.response.status_int)
    logger.error(e.response.status)
    logger.error(e.response.parsed)

#OK
[DEBUG] POST ticket/new
[DEBUG] {'Content-Type': 'application/x-www-form-urlencoded', 'Accept': 'text/plain', 'User-Agent': 'python-rtkit'}
[DEBUG] u'content=Queue: 1\nText: My useless\n text on\n three lines.\nSubject: New Ticket\n'
[INFO] HTTP_STATUS: 200 OK
[DEBUG] 'RT/3.8.10 200 Ok\n\n# Ticket 17 created.\n\n'
[INFO] RESOURCE_STATUS: 200 Ok
[INFO] [('id', 'ticket/17')]]

#MISSING OR MISSPELLED QUEUE
[DEBUG] POST ticket/new
[DEBUG] {'Content-Type': 'application/x-www-form-urlencoded', 'Accept': 'text/plain', 'User-Agent': 'python-rtkit'}
[DEBUG] u'content=Queue: \nText: My useless\n text on\n three lines.\nSubject: New Ticket\n'
[INFO] HTTP_STATUS: 200 OK
[DEBUG] 'RT/3.8.10 200 Ok\n\n# Could not create ticket.\n# Could not create ticket. Queue not set\n\n'
[INFO] RESOURCE_STATUS: 400 Could not create ticket. Queue not set
[ERROR] 400
[ERROR] 400 Could not create ticket. Queue not set
[ERROR] []

#NO PERMISSION ON QUEUE
[DEBUG] POST ticket/new
[DEBUG] {'Content-Type': 'application/x-www-form-urlencoded', 'Accept': 'text/plain', 'User-Agent': 'python-rtkit'}
[DEBUG] u'content=Queue: 2\nText: My useless\n text on\n three lines.\nSubject: New Ticket\n'
[INFO] HTTP_STATUS: 200 OK
[DEBUG] "RT/3.8.10 200 Ok\n\n# Could not create ticket.\n# No permission to create tickets in the queue\n\n'
[INFO] RESOURCE_STATUS: 400 No permission to create tickets in the queue '___Approvals'
```

```
[ERROR] 400
[ERROR] 400 No permission to create tickets in the queue '___Approvals'
[ERROR] []
```

1.4.2 Read a ticket

```
try:
    response = resource.get(path='ticket/1')
    for r in response.parsed:
        for t in r:
            logger.info(t)
except RTResourceError as e:
    logger.error(e.response.status_int)
    logger.error(e.response.status)
    logger.error(e.response.parsed)

#TICKET FOUND
[DEBUG] GET ticket/1
[DEBUG] {'Accept': 'text/plain', 'User-Agent': 'pyRTkit/0.0.1'}
[DEBUG] None
[INFO] HTTP_STATUS: 200 OK
[DEBUG] 'RT/3.8.10 200 Ok\n\nnid: ticket/1\nQueue: General\nOwner: Nobody\nCreator: pyrtkit\nSubject:
[INFO] RESOURCE_STATUS: 200 Ok
[INFO] ('id', 'ticket/1')
[INFO] ('Queue', 'General')
[INFO] ('Owner', 'Nobody')
[INFO] ('Creator', 'pyrtkit')
[INFO] ('Subject', 'pyrt-create4')
[INFO] ('Status', 'open')
[INFO] ('Priority', '5')
[INFO] ('InitialPriority', '0')
[INFO] ('FinalPriority', '0')
[INFO] ('Requestors', '')
[INFO] ('Cc', '')
[INFO] ('AdminCc', '')
[INFO] ('Created', 'Sun Jul 03 10:48:57 2011')
[INFO] ('Starts', 'Not set')
[INFO] ('Started', 'Not set')
[INFO] ('Due', 'Not set')
[INFO] ('Resolved', 'Not set')
[INFO] ('Told', 'Wed Jul 06 12:58:00 2011')
[INFO] ('LastUpdated', 'Thu Jul 07 14:42:32 2011')
[INFO] ('TimeEstimated', '0')
[INFO] ('TimeWorked', '25 minutes')
[INFO] ('TimeLeft', '0')

#TICKET NOT FOUND
[DEBUG] GET ticket/100
[DEBUG] {'Accept': 'text/plain', 'User-Agent': 'pyRTkit/0.0.1'}
[DEBUG] None
[INFO] HTTP_STATUS: 200 OK
[DEBUG] 'RT/3.8.10 200 Ok\n\n# Ticket 100 does not exist.\n\n\n'
[INFO] RESOURCE_STATUS: 404 Ticket 100 does not exist
[ERROR] 404
[ERROR] 404 Ticket 100 does not exist
[ERROR] []
```


1.4.3 Edit a ticket or ticket's links

Ticket (or ticket's links) editing hasn't all-or-nothing behaviour; so it's very difficult to capture errors. For example trying to change Queue to a not admitted one (or to edit an unknown field) RT will return:

```
RT/3.8.10 409 Syntax Error
```

```
# queue: You may not create requests in that queue.
# spam: Unknown field.
```

```
id:
Subject: Try Edit Ticket
TimeWorked: 1
Queue: 2
Spam: 10
```

For now rtkit will raise `SyntaxError` with the errors list in `e.response.parsed`

```
[DEBUG] POST ticket/1
[DEBUG] {'Content-Type': 'application/x-www-form-urlencoded', 'Accept': 'text/plain', 'User-Agent': 'python-rtkit'}
[DEBUG] u'content=Queue: 2\nSpam: 10\nTimeWorked: 1\nSubject: Try Edit Ticket\n'
[INFO] HTTP_STATUS: 200 OK
[DEBUG] 'RT/3.8.10 409 Syntax Error\n\n# queue: You may not create requests in that queue.\n# spam: U
[INFO] RESOURCE_STATUS: 409 Syntax Error
[ERROR] 409
[ERROR] 409 Syntax Error
[ERROR] [['queue', 'You may not create requests in that queue.'], ('spam', 'Unknown field.']]
```

1.4.4 Comment on a Ticket with Attachments

Usually your requests will be something like this.

```
try:
    params = {
        'content' :{
            'Action' : 'comment',
            'Text' : 'Comment with attach',
            'Attachment' : 'x.txt, 140x105.jpg',
        },
        'attachment_1' : file('x.txt'),
        'attachment_2' : file('140x105.jpg'),
    }
    response = resource.post(path='ticket/16/comment', payload=params,)
    for r in response.parsed:
        for t in r:
            logger.info(t)
except RTResourceError as e:
    logger.error(e.response.status_int)
    logger.error(e.response.status)
    logger.error(e.response.parsed)
```

1.5 License

This software is licensed under the Apache License 2.0. See the LICENSE file in the top distribution directory for the full license text.

1.6 References

- [Best Practical RT](#)
- [Request Tracker Wiki](#)

RTKIT

2.1 rtkit.authenticators

Connect to an RT server using various authentication techniques

- The `AbstractAuthenticator` contains the base methods
- **And the current implementations are:**
 - `BasicAuthenticator`
 - `CookieAuthenticator`
 - `KerberosAuthenticator`

See Also:

`rtkit.resource` for usage

```
class rtkit.authenticators.AbstractAuthenticator (username, password, url, *handlers)
```

Bases: object

Abstract Base Authenticator

Parameters

- **username** – The RT Login
- **password** – Plain Text Password
- **url** – the url ?
- ***handlers** – todo

```
login ()
```

Login to server, unless already logged in

```
open (request)
```

Open connection to server

```
class rtkit.authenticators.BasicAuthenticator (username, password, url)
```

Bases: `rtkit.authenticators.AbstractAuthenticator`

Basic Authenticator

```
from rtkit.resource import RTResource
from rtkit.authenticators import BasicAuthenticator
from rtkit.errors import RTResourceError

from rtkit import set_logging
```

```
import logging
set_logging('debug')
logger = logging.getLogger('rtkit')

resource = RTResource('http://<HOST>/REST/1.0/', '<USER>', '<PWD>', BasicAuthenticator)

login()
    Login to server, unless already logged in

open(request)
    Open connection to server
```

class `rtkit.authenticators.CookieAuthenticator`(*username, password, url*)

Bases: `rtkit.authenticators.AbstractAuthenticator`

Authenticate against server using a cookie

```
from rtkit.resource import RTResource
from rtkit.authenticators import CookieAuthenticator
from rtkit.errors import RTResourceError

from rtkit import set_logging
import logging
set_logging('debug')
logger = logging.getLogger('rtkit')

resource = RTResource('http://<HOST>/REST/1.0/', '<USER>', '<PWD>', CookieAuthenticator)

login()
    Login to server, unless already logged in

open(request)
    Open connection to server
```

class `rtkit.authenticators.KerberosAuthenticator`(*username, password, url*)

Bases: `rtkit.authenticators.AbstractAuthenticator`

Authenticate using Kerberos

Warning:

- Requires the `urllib2_kerberos`
- http://pypi.python.org/pypi/urllib2_kerberos/
- `sudo easy_install urllib2_kerberos`

```
from rtkit.resource import RTResource
from rtkit.authenticators import KerberosAuthenticator
from rtkit.errors import RTResourceError

from rtkit import set_logging
import logging
set_logging('debug')
logger = logging.getLogger('rtkit')

resource = RTResource(url, None, None, KerberosAuthenticator)

login()
    Login to server, unless already logged in

open(request)
    Open connection to server
```

2.2 rtkit.comment

exception `rtkit.comment.RTCreated(msg)`

Bases: `exceptions.Exception`

Created Exception

args

message

exception `rtkit.comment.RTNoMatch`

Bases: `exceptions.Exception`

No Match Exception

args

message

`rtkit.comment.check(section)`

Parse and Dispatch Errors

See Also:

The `rtkit.errors` module

```
>>> check(['# Unknown object type: spam'])
Traceback (most recent call last):
...
RTUnknownTypeError: Unknown object type: spam
>>> check(['# Invalid object specification: 'spam'])
Traceback (most recent call last):
...
RTInvalidError: Invalid object specification: 'spam'
>>> check(['# spam 1 does not exist.'])
Traceback (most recent call last):
...
RTNotFoundError: spam 1 does not exist
>>> check(['# No spam named ham exists.'])
Traceback (most recent call last):
...
RTNotFoundError: No spam named ham exists
>>> check(['# Objects of type eggs must be specified by numeric id.'])
Traceback (most recent call last):
...
RTValueError: Objects of type eggs must be specified by numeric id
>>> check(['No matching results.'])
Traceback (most recent call last):
...
RTNoMatch: No matching results
>>> check(['# Could not create ticket.', '# Could not create ticket. Queue not set'])
Traceback (most recent call last):
...
RTInvalidError: Could not create ticket. Queue not set
>>> try:
...     check(['# Ticket 1 created.'])
... except RTCreated as e:
...     e.id
'ticket/1'
>>> check(['# You are not allowed to modify ticket 2.'])
```

```
Traceback (most recent call last):  
...  
RTUnauthorized: You are not allowed to modify ticket 2
```

2.3 rtkit.entities

```
class rtkit.entities.RTEntity(id)  
    Bases: object  
    Base Class for an Entity  
    static api()  
        Returns NotImplementedError - needs to be implemented in subclass  
    id  
        Returns int with the ID  
class rtkit.entities.User(id, **kwargs)  
    Bases: rtkit.entities.RTEntity  
    User Object  
    static api()  
        Returns str with 'user'  
    id  
        Returns int with the ID  
class rtkit.entities.Queue(id, **kwargs)  
    Bases: rtkit.entities.RTEntity  
    Queue Object  
    static api()  
        Returns str with 'queue'  
    description = None  
        Queue Description  
    id  
        Returns int with the ID  
    name = None  
        Queue Name  
class rtkit.entities.Ticket(id, **kwargs)  
    Bases: rtkit.entities.RTEntity  
    Ticket Object  
    static api()  
        Returns str with 'ticket'  
    creator = None  
        Creator
```

date = None

Dates as dictionary with keys

- created
- started
- due
- resolved
- updated

delta = None

Time Deltas dictionary with keys

- worked
- estimated
- left

id**Returns** int with the ID**owner = None**

Owner

priority = None

Priority

status = None

Status

subject = None

Subject

class rtkit.entities.**Attachment** (*id*, ***kwargs*)

Bases: rtkit.entities.RTEntity

Attachment Object

static api ()**Returns** str with 'attachments'**content = None**

Content

ctype = None

ContentType

encoding = None

ContentEncoding

filename = None

Filename

id**class** rtkit.entities.**History** (*id*)

Bases: rtkit.entities.RTEntity

History Object

Todo

History not implemented

static api ()

Returns NotImplementedError - needs to be implemented in subclass

id

Returns int with the ID

class `rtkit.entities.Links (id)`

Bases: `rtkit.entities.RTEntity`

Links Object

Todo

Links not implemented

static api ()

Returns NotImplementedError - needs to be implemented in subclass

id

Returns int with the ID

2.4 rtkit.errors

exception `rtkit.errors.RTUnknownTypeError (msg=None, http_code=None, response=None)`

Bases: `rtkit.errors.RTResourceError`

Unknown Type Exception

args

message

status_int = 400

exception `rtkit.errors.RTInvalidError (msg=None, http_code=None, response=None)`

Bases: `rtkit.errors.RTResourceError`

Invalid Exception

args

message

status_int = 400

exception `rtkit.errors.RTValueError (msg=None, http_code=None, response=None)`

Bases: `rtkit.errors.RTResourceError`

value Error Exception

args

message

status_int = 400

exception `rtkit.errors.RTResourceError` (*msg=None, http_code=None, response=None*)

Bases: `exceptions.Exception`

Default error class

args

message

status_int = `None`

exception `rtkit.errors.RTNotFoundError` (*msg=None, http_code=None, response=None*)

Bases: `rtkit.errors.RTResourceError`

Not Found Exception

args

message

status_int = `404`

exception `rtkit.errors.RTUnauthorized` (*msg=None, http_code=None, response=None*)

Bases: `rtkit.errors.RTResourceError`

Not Authorised Exception

args

message

status_int = `401`

2.5 rst.forms

class `rtkit.forms.BoundaryItem` (*name, value, fname=None, filetype=None, filesize=None*)

Bases: `object`

encode (*boundary*)

Returns A string encoding of this parameter.

encode_hdr (*boundary*)

Returns The header of the encoding of this parameter

encode_unreadable_value (*value*)

iter_encode (*boundary, blocksize=16384*)

class `rtkit.forms.MultipartForm` (*params, boundary*)

Bases: `object`

Represents an encoded Form

get_size ()

`rtkit.forms.encode` (*value, headers*)

`rtkit.forms.to_bytestring` (*s*)

`rtkit.forms.url_quote` (*s, charset='utf-8', safe='/:'*)

URL encode a single string with a given encoding.

2.6 rtkit.parser

class `rtkit.parser.RTParser`

Bases: `object`

RFC5322 Parser - see <https://tools.ietf.org/html/rfc5322>

COMMENT = `<_sre.SRE_Pattern object at 0x38bc1c0>`

HEADER = `<_sre.SRE_Pattern object at 0x390bc40>`

SECTION = `<_sre.SRE_Pattern object at 0x36f43e8>`

classmethod `build` (*body*)

Build logical lines from a RFC5322-like string

Returns A list of strings

```
>>> body = '''RT/1.2.3 200 Ok
...
... # a
...   b
... spam: 1
...
... ham: 2,
...   3
... --
... # c
... spam: 4
... ham:
... --
... a -- b
... '''
>>> RTParser.build(body)
[['# a b', 'spam: 1', 'ham: 2, 3'], ['# c', 'spam: 4', 'ham:'], ['a -- b']]
```

classmethod `decode` (*lines*)

Returns A list of 2-tuples parsing ‘k: v’ and skipping comments

```
>>> RTParser.decode(['# c1: c2', 'spam: 1', 'ham: 2, 3', 'eggs:'])
[('spam', '1'), ('ham', '2, 3'), ('eggs', '')]
>>> RTParser.decode(['<!DOCTYPE HTML PUBLIC >', '<html><head>',])
[]
```

classmethod `decode_comment` (*lines*)

Returns A list of 2-tuples parsing ‘# k: v’

```
>>> RTParser.decode_comment(['# c1: c2', 'spam: 1', 'ham: 2, 3', 'eggs:'])
[('c1', 'c2')]
>>>
```

classmethod `parse` (*body, decoder*)

Returns A list of RFC5322-like section

```
>>> decode = RTParser.decode
>>> body = '''
...
... # c1
... spam: 1
```

```

... ham: 2,
...     3
... eggs:''
>>> RTParser.parse(body, decode)
[('spam', '1'), ('ham', '2, 3'), ('eggs', '')]]
>>> RTParser.parse('# spam 1 does not exist.', decode)
Traceback (most recent call last):
...
RTNotFoudError: spam 1 does not exist
>>> RTParser.parse('# Spam 1 created.', decode)
[('id', 'spam/1')]]
>>> RTParser.parse('No matching results.', decode)
[]
>>> decode = RTParser.decode_comment
>>> RTParser.parse('# spam: 1\n# ham: 2', decode)
[('spam', '1'), ('ham', '2')]]

```

2.7 rtkit.resource

class rtkit.resource.**RTObj** (*dic=None*)

RT Simple Object Container. This is a quick hack to make the data returned slightly oo with some helpers.

Parameters **dic** – The dictionary to make Oo

```

mydata = {'Foo': 'Var'}
myObj = RTObj(mydata)
print myObj.Foo

```

```

resource = RTResource('http://rt.example.com/REST/1.0/', 'webmaster', 'secret', CookieAuthentica
try:

```

```

    response = resource.get(path='ticket/28')
    myTicket = response.as_object() ## Returns an RtObj instance

```

```

except RTResourceError as e:
    logger.error(e.response.status_int)
    logger.error(e.response.status)
    logger.error(e.response.parsed)

```

```

## Show Stuff

```

```

print myTicket.Subject, myTicket.id
print myTicket.get_custom("my_custom")
print myTicket.keys() # list of keys
print mtTicket.as_dict() # return as dict and key/value pair

```

```

## Update Stuff

```

```

myTicket.set_custom("my_custom", "New Val")
myTicker.Subject = myTicket.Subject + " my Xtra"

```

as_dict ()

Returns Dictionary of data as key value pairs

get (*name*)

This is useful as some “keys” are not ooable eg ob.get(“X-yx”);

Parameters **name** – The value to get

Returns The value of name.

get_custom (*name*)

Get a custom field, a short cut to CF.{name}

Parameters **name** – of custom field eg ‘Works Order’

Returns the data as string

keys ()

Returns A list with strings of the field names

set_custom (*name, val*)

Set a custom field, a short cut to CF.{name}

Parameters

- **name** – of custom field eg ‘Works Order’
- **val** – New value to set to

class `rtkit.resource.RTResource` (*url, username, password, auth, **kwargs*)

Bases: object

REST Resource Object

Create Connection Object

Parameters

- **url** – Server URL
- **username** – RT Login
- **password** – Password
- **auth** – Instance of `rtkit.authenticators`

get (*path=None, headers=None*)

GET from the server

post (*path=None, payload=None, headers=None*)

POST to the server

request (*method, path=None, payload=None, headers=None*)

Make request to server

class `rtkit.resource.RTResponse` (*request, response*)

Bases: object

Represents the REST response from server

as_dict ()

Returns dict with the data

as_object ()

Returns A `rtkit.resource.RTObj` object instance

body = None

Request Body

headers = None

Headers as dict

logger = None

Logger

parsed = None
A List of Tuples of data

status = None
Status String

status_int = None
Status Code

2.8 rtkit.tracker

class `rtkit.tracker.Tracker` (*url, username, password, auth, language='en'*)

Bases: `rtkit.resource.RTResource`

Tracker Object

change_links (*ticket_id, content*)
Change Links

Warning: Not yet Implemented

comment_ticket (*content, attachments=None*)
Comment on Ticket

Warning: Not yet Implemented

create_ticket (*content, attachments=None*)
Create a ticket

Warning: Not yet Implemented

get (*path=None, headers=None*)
GET from the server

get_attachment (*ticket_id, value*)

Returns An instance of `rtkit.entities.Attachment`

get_history (*ticket_id, value=None, format='l'*)

Returns An instance of `rtkit.entities.History`

get_links (*ticket_id*)

Returns An instance of `rtkit.entities.Links`

get_queue (*value*)

Returns An instance of `rtkit.entities.Queue`

get_ticket (*value*)

Returns An instance of `rtkit.entities.Ticket`

get_user (*value*)

Returns An instance of `rtkit.entities.User`

post (*path=None, payload=None, headers=None*)
POST to the server

request (*method, path=None, payload=None, headers=None*)
Make request to server

search_tickets (*query, order*)
Search tickets

Warning: Not yet Implemented

2.9 Developers Guide

Once upon a time, z4r created a pushed some code to github; little did he know what was to happen next, when the fork.. .. developers guide to be written.. continued.....

2.9.1 TODO List

(extracted from source)

Todo

History not implemented

(The *original entry* is located in `/var/build/user_builds/rtkit/checkouts/latest/rtkit/entities.py:docstring` of `rtkit.entities.History`, line 3.)

Todo

Links not implemented

(The *original entry* is located in `/var/build/user_builds/rtkit/checkouts/latest/rtkit/entities.py:docstring` of `rtkit.entities.Links`, line 3.)

CREDITS

abstract Python interface to Request Tracker REST API

version 0.3.1

author Andrea De Marco <24erre@gmail.com>

contact <http://z4r.github.com/>

date 2011-07-15

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3.1 Indices and tables

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