
rapidsms-celery-router Documentation

Release 0.0.1

RapidSMS development community

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rapidsms-celery-router is a custom [RapidSMS](#) router implementation that uses [Celery](#) to queue incoming and outgoing messages.

Warning: rapidsms-celery-router is only compatible with the [feature/new-routing](#) branch of RapidSMS.

Motivation

RapidSMS ships with a router, `BlockingRouter`, that processes messages synchronously in the main HTTP thread. This is fine for most scenarios, but in some cases you may wish to process messages outside of the HTTP request/response cycle to be more efficient. `rapidsms-celery-router` is a custom router that allows you queue messages for background processing. It's designed for projects that require high messages volumes and greater concurrency.

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2.1 Installation

2.1.1 Dependencies

rapidsms-celery-router depends on [django-celery](#). Please follow the [django-celery setup instructions](#) before proceeding with these steps.

2.1.2 Setup

Install rapidsms-celery-router using Pip:

```
pip install rapidsms-celery-router
```

This will install the necessary dependencies, including [django-celery](#) and [celery](#), if required.

Set `RAPIDSMS_ROUTER` in your project's `settings.py` to use `CeleryRouter`:

```
RAPIDSMS_ROUTER = "celery_router.router.CeleryRouter"
```

That's it! Now all incoming and outgoing messages will be queued using Celery.

2.2 Configuration

2.2.1 Eager backends

Sometimes your project may require the use of a synchronous backend. If this is the case, you can configure specific backends to utilize Celery's eager functionality with the `celery_router.eager` backend setting. For example, here's how you can force the `httptester` backend to be eager:

```
INSTALLED_BACKENDS = {
    "message_tester": {
        "ENGINE": "rapidsms.contrib.httptester.backend",
        "celery_router.eager": True, # <-----
    },
}
```

Using this setting means that the task will be executed in the current process, and not by an asynchronous worker. Please see the Celery documentation for more information on [calling tasks](#).

2.2.2 Logging

Note: Please see the [Django logging documentation](#) for further information regarding general logging configuration.

All logging specific to `rapidsms-celery-router` is handled through the `celery_router` name. For example, if you have a `file` handler defined, you can capture all messages using the following configuration:

```
LOGGING_CONFIG = {
    'celery_router': {
        'handlers': ['file'],
        'level': 'DEBUG',
    },
}
```

Currently, there are only two child loggers: one for the router and one for the Celery task. You can capture their messages independently like so:

```
LOGGING_CONFIG = {
    'celery_router.router': {
        'handlers': ['file'],
        'level': 'INFO',
    },
    'celery_router.tasks.rapidsms_handle_message': {
        'handlers': ['file'],
        'level': 'DEBUG',
    },
}
```

BlockingRouter

`rapidsms-celery-router`'s tasks use the `BlockingRouter` to route messages. If you want to capture all router messages, make sure to add, in addition to the `celery_router` loggers, `blockingrouter`:

```
LOGGING_CONFIG = {
    'blockingrouter': {
        'handlers': ['file'],
        'level': 'DEBUG',
    },
}
```

2.3 Running the tests

You can run the tests with via:

```
python setup.py test
```

or:

```
python runtests.py
```

2.4 Release Notes

2.4.1 v0.0.1 (09/24/2012)

- Initial release