

1 Bitcoin Zya Service - Worker

- Handle Block requests
- Load watch lists
 1. Addresses
 2. Transactions
- Send status update when done
- Save requests in a database that meet the following conditions.
 - $(\forall tx. transactions)(to \in addresses \vee from \in addresses \vee tx \in transactions)$
- Resume blocks where stopped
- Alerts

2 Node responsibilities

The purpose of this node is to listen to requests for interacting a local block (perhaps remote in certain conditions). For example, querying a block for a set of transactions and publish them.

3 Commands that the node handles

- QueryBlock for a blockchain (could be bitcoin, ethereum or tezos)
- Stop processing the node (a general command that should stop the node)
- resume the node.
- - Add transaction address to a watchlist
 - Remove transaction address to a watchlist
 - Add hash address to a watchlist
 - Remove hash address to a watchlist

4 Design

```
module Data.Zya.Bitcoin.Common
```

```
...
```

```
newtype BlockQuery =
```

```
BlockQuery { _b :: (BlockHeight, [Address]) } deriving (Show, Eq, Generic)
```

5 Block diagram

