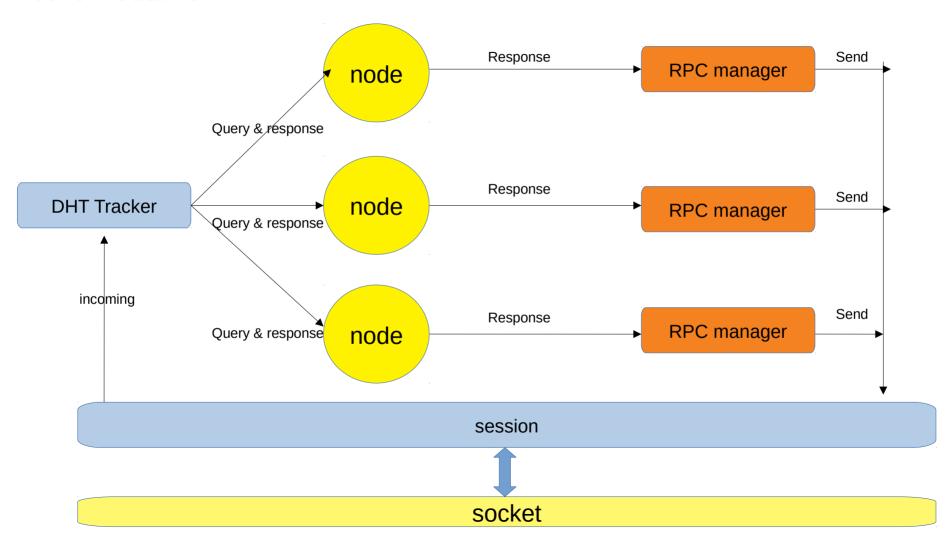
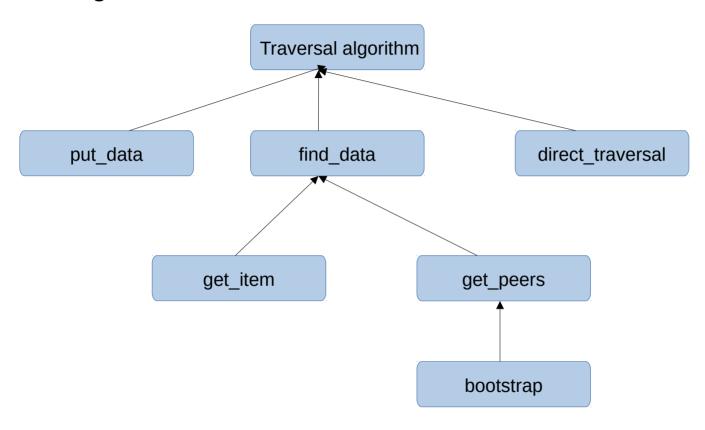


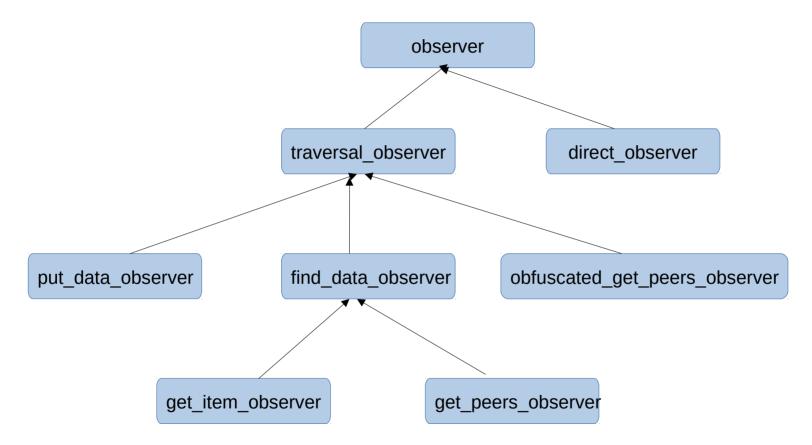
Network data flow



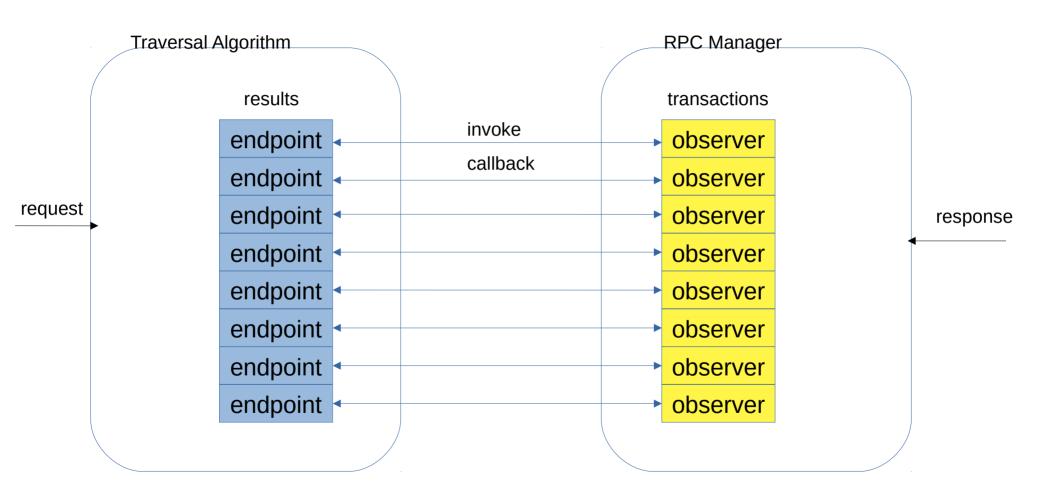
Traversal Algorithm



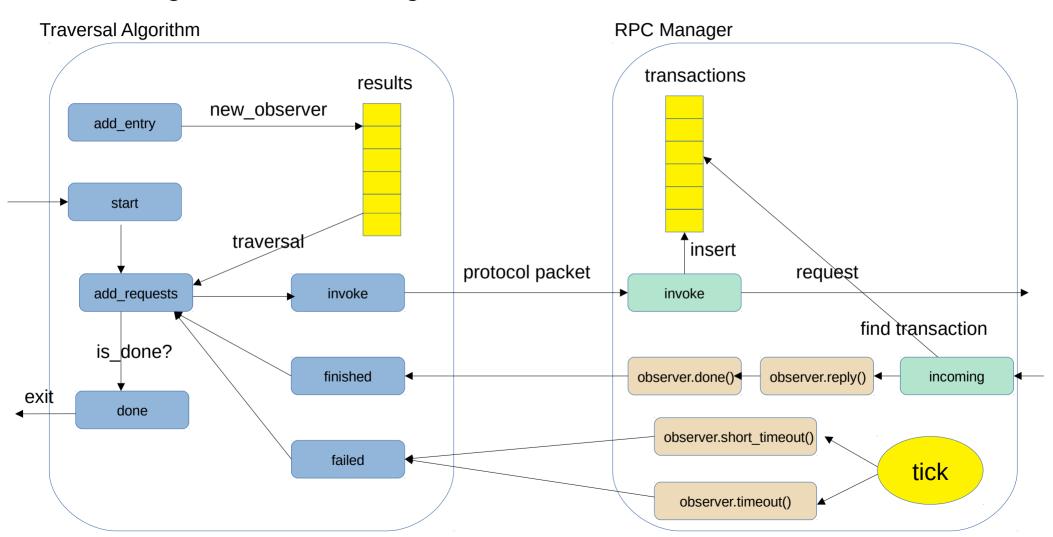
Observer

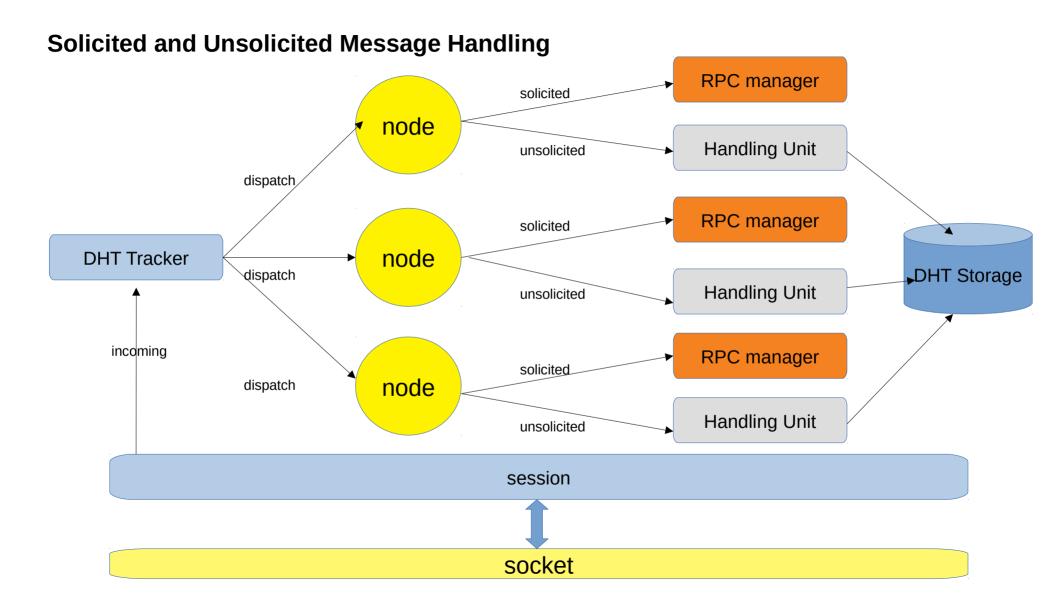


Traversal Algorithm & RPC Manager

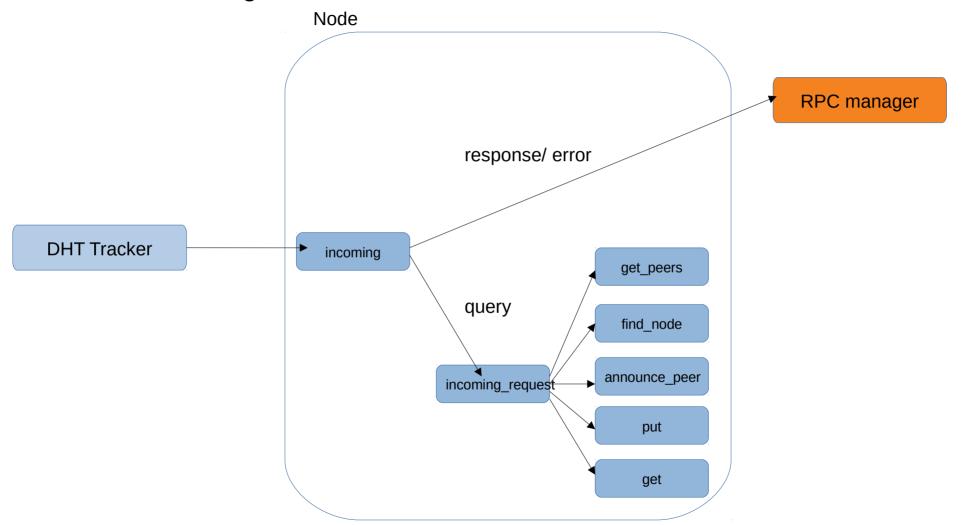


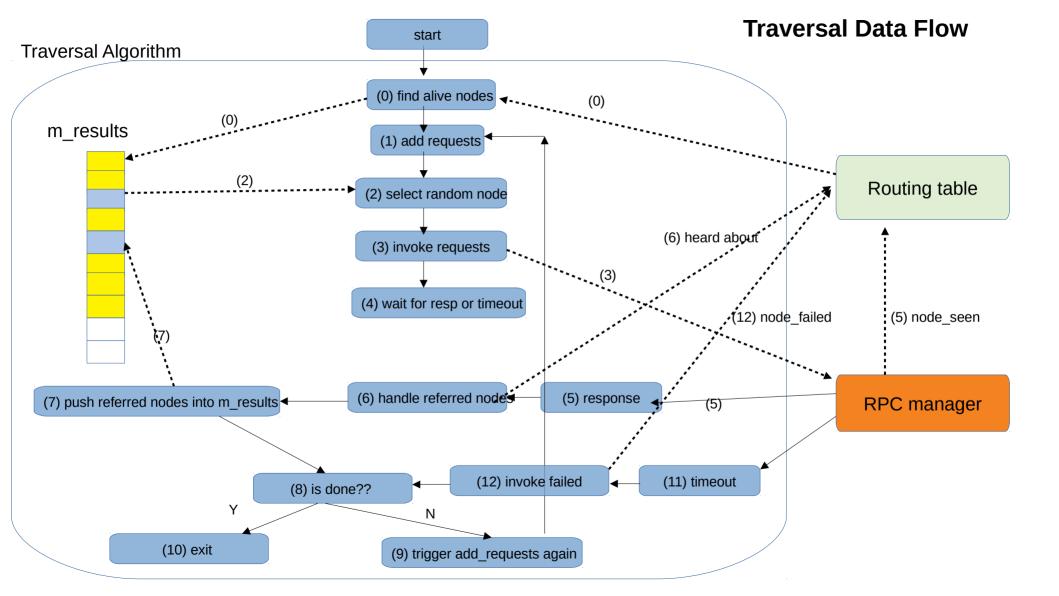
Traversal Algorithm & RPC Manager





Unsolicited Handling Unit





- (0) find 8 alive nodes from routing table.
- (1) 'add_requests' is triggered by 'start', 'finished' or 'timeout'.
- (2) select alpha(1) random nodes and the selected index is (0, min(beta, m_results.size()) 1).
- (3) invoke requests.
- (4) wait for response or timeout.
- (5) response is coming and trigger 'finished' method.
- (6) trigger routing table 'heard about' and add nodes into replacements bucket.
- (7) if referred nodes is allowed invoke, push them into m_results.
- (8) is done? Invoked beta requests and all the invoked requests are handled?(response or timeout).
- (9) not done, enter 'add_requests' method again.

(10) done and release traversal algorithm and all observers.

(11) rpc manager checks some requests are timeout(short or long timeout).

(12) invoke failed and call rpc manager 'node_failed' method.