1 General responsibilities of a node

Common responsibilities of a node.

- Some data types
 - -- data WhereIsReply = WhereIsReply String (Maybe ProcessId)
- Initialize Node
 - -- getall peers other than me
 - -- register my pid as a list of available services.
 - -- listen to all peers to copy the global state into the node.
- Handle WhereIs Reply
 - -- handle WhereIsReply
 - $-- \ \ Throw \ \ exception \ \ when \ \ ProcessId \ \ is \ \ Nothing \, .$

handleWhereIsReply :: Server -> ServiceProfile -> WhereIsReply ->

- Broadcast remote messages to local connections.
 - -- Broadcast local message by publishing to a local STM Bounded que
 - -- bMessage :: (WS. Connection, TBQueue LocalMessage) -> (Text -> P
- Publish to local queues
 - -- Send all messages from the remote queue to the local queue.
 - -- This function will most likely vary per node.
- Update remote service queue

updateRemoteServiceQueue :: Server -> ProcessId -> (PMessage, UTCT

- Handle Remote message
 - -- this is where each node handles most of the work.