

# Progress Report 10

Stuart, Walt, Dan

## Next Goals and Deliverables

- Read/write packets across the network layer (IN PROGRESS) - Stuart/Walt
- Fix hamming encoding to work on bytes instead of characters (IN PROGRESS) - Dan
- Build routing logic into network layer (IN PROGRESS) - Walt
- Change from fixed stop sequence to timeout - Walt/Stuart

## Previous Goals and Deliverables

- Encapsulate header/footer creation into link layer (DONE) - Walt
- Encode packets using uint8t bytes (DONE (in part)) - Walt
- Transition from reading bits as characters to bitmasking using uint8t bytes. (IN PROGRESS) - Stuart
- Change Hamming encoding to 8-5 and working with uint8t. (IN PROGRESS)- Dan

## Discussion

- The refactor has continued, and although Stuart and Walt spent a lot of time this weekend on it, we remain unable to transmit bit packets. If we still can't get the refactor to work by tomorrow, we will revert to the old code and try to make it work with the new routing logic, building packets using characters.
- This will inform how we continue to implement the Hamming encoding, as we will revert to character encoding versus bit encoding.
- This has been a substantial setback, but we have a number of troubleshooting efforts we can try to get the refactor to work. We will change our stop sequence to a timeout, try changing the start state of the reader, and look again at the encodings.
- The next step is static routing, which shouldn't be too difficult to implement. We will need to build a routing table and have the packets forwarded correctly. I have a good idea of how to implement this, and will start on it as soon as we have packets sending and being encoded decoded.