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#### Protocol Actions:

1. A random session ID is created that is unique between any sessions of the proxies
2. Heartbeats are sent every second to detect changes
3. Program will either create a packet and send to other packet or parse through one that it just received
4. If a timeout happens with IP change then cproxy will attempt to reconnect consistently
5. All ports will close on logout

#### Header Packet Format:

The header is 20 bytes long with 5 different fields that are 4 bytes long. They consist of:

1. The type which tells what kind of message it is
2. AckID that is used for retransmission purposes
3. SessionID that has the ID for the session between the two proxies
4. PayloadLength which is the length of the packet
5. SeqID which is also used for retransmission

#### Extra Credit:

We did not do extra credit