We need to identify potential protocols to use for sending the raw data received by the phone service to the server. Initial ideas just based on what I've seen before are HTTP and MQTT. We need to figure out what the options are, and what the pros and cons are for each. In particular, we should at least answer the following:

* What available protocols are there?
* What are the pros and cons of each?
* What is typical for IoT type data?
* HTTP and HTTPS and HTTP/2
  + Request-response protocol
  + Depending on version can be secured or unsecured
  + Is stateless, doesn’t need info about senders/receivers over multiple requests.
  + Probably simplest to use and develop with.
* [MQTT](http://mqtt.org/) (MQ Telemetry Transport)
  + M2M/IoT connectivity protocol. Light weight publish/subscribe message transport. Useful for connections with remote locations, small code footprint/bandwidth required
  + Can set QoS for messages.
  + [MQTT-SN](http://mqtt.org/2013/12/mqtt-for-sensor-networks-mqtt-sn)
    - MQTT for sensor networks. Open and lightweight publish/subscribe designed for M2M and mobile apps
  + [Mosquitto](http://mosquitto.org/)
    - Implements MQTT 3.1 and 3.1.1
    - Provides C library for implementing MQTT clients
    - Is part of Eclipse Foundation
* [Websocket](https://websocket.org/about.html)
  + Provides full duplex over single connection.
  + Compatible with HTTP, uses ports 80/443
  + Can be secured
* [DDS](http://portals.omg.org/dds/) (Data Distribution Service)
  + Easy integration
  + Secure
  + Open std and APIs
  + Decentralized architecture
* [CoAP](https://datatracker.ietf.org/doc/rfc7252/) (Constrained App Protocol)
  + Intended for resource-constrained devices. Easily translates to HTTP/web. Low overhead. Constrained environment means it was designed for ~8-bit u-controllers. Not very secure.
  + [SMCP](https://github.com/darconeous/smcp/tree/smcp-0.6)
    - Experimental. Linux Based
    - C-based CoAP, good for embedded
    - Fully asynchronous I/O
    - Can enable/disable features of CoAP library as desired

<https://www.postscapes.com/internet-of-things-protocols/>

* Useful site with a lot of defintions/links for IoT related stuff. Lists things in 8 layers. Most pertinent being 3. Comms/Transport and 5. Data Protocols