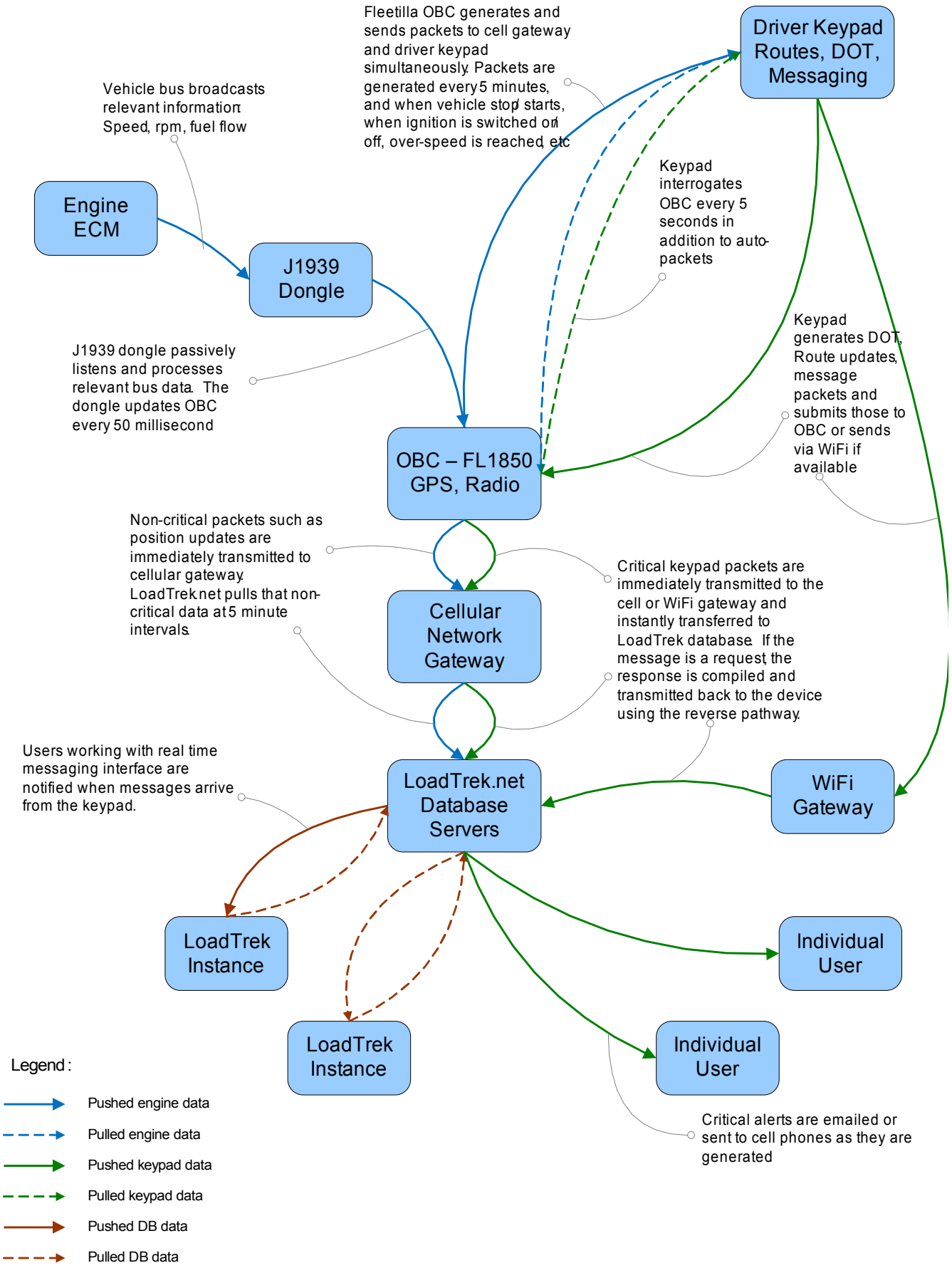
Fleetilla OBC generates and sends packets to cell gateway and driver keypad simultaneously. Packets are generated every 5 minutes, and when vehicle stop/starts, when ignition is switched on/off, over-speed is reached, etc
Driver Keypad Routes, DOT, Messaging
Vehicle bus broadcasts relevant information: Speed, rpm, fuel flow
Keypad interrogates OBC every 5 seconds in addition to auto-packets
Engine ECM
J1939 Dongle
Keypad generates DOT, Route updates, message packets and submits those to OBC or sends via WiFi if available
J1939 dongle passively listens and processes relevant bus data. The dongle updates OBC every 50 millisecond
OBC – FL1850 GPS, Radio
Non-critical packets such as position updates are immediately transmitted to cellular gateway. LoadTrek.net pulls that non-critical data at 5 minute intervals.
Cellular Network Gateway
Critical keypad packets are immediately transmitted to the cell or WiFi gateway and instantly transferred to LoadTrek database. If the message is a request, the response is compiled and transmitted back to the device using the reverse pathway.
Users working with real time messaging interface are notified when messages arrive from the keypad.
LoadTrek.net Database Servers
WiFi Gateway
LoadTrek Instance
Individual User
LoadTrek Instance
Individual User
Critical alerts are emailed or sent to cell phones as they are generated
Legend:
Pushed engine data
Pulled engine data
Pushed keypad data
Pulled keypad data
Pushed DB data
Pulled DB data