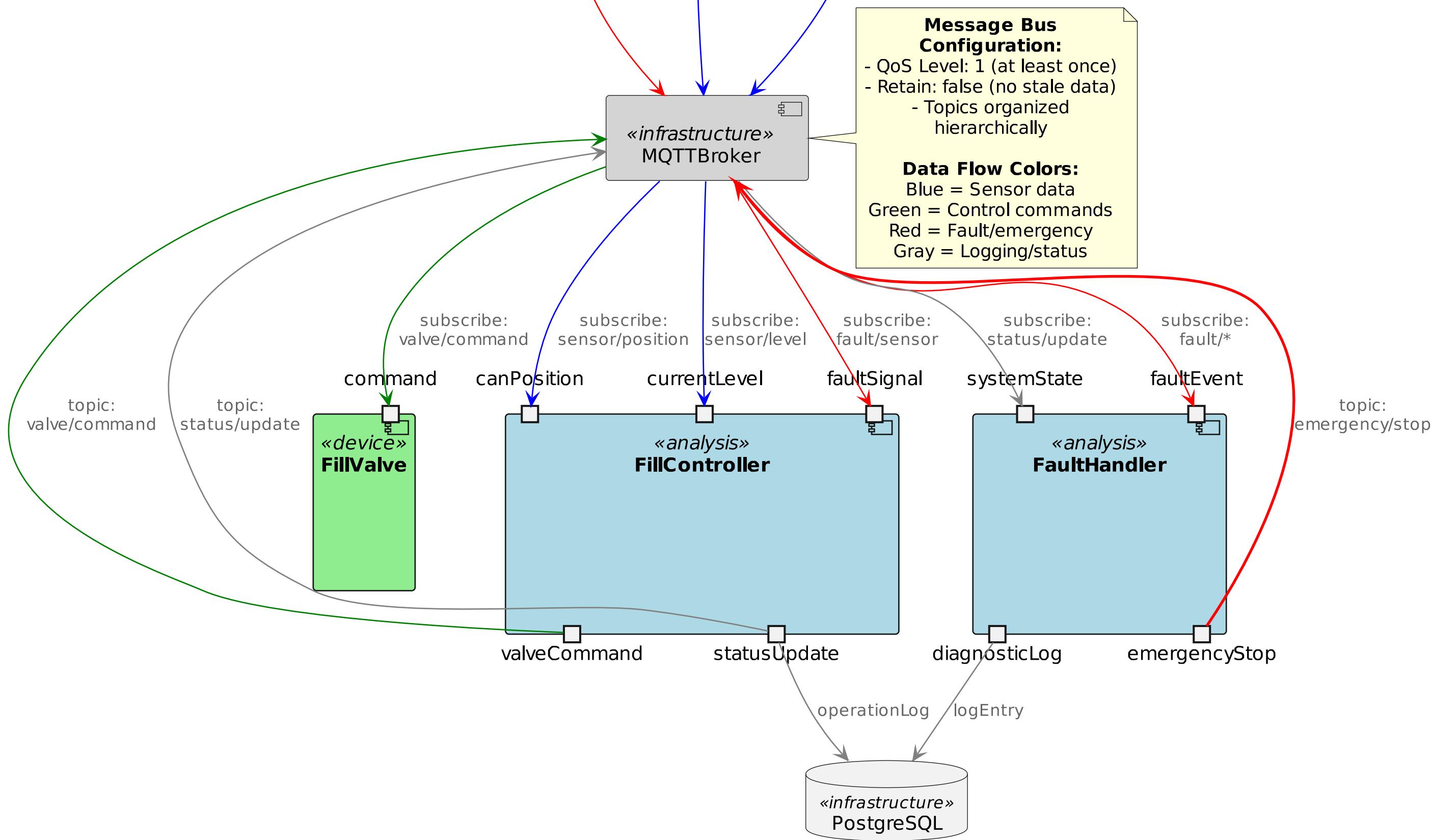


**Analysis Functions:**  
Functions represent logical behavior independent of implementation.  
  
Mapped to processes in deployment.



**Message Bus Configuration:**  
- QoS Level: 1 (at least once)  
- Retain: false (no stale data)  
- Topics organized hierarchically

**Data Flow Colors:**  
Blue = Sensor data  
Green = Control commands  
Red = Fault/emergency  
Gray = Logging/status