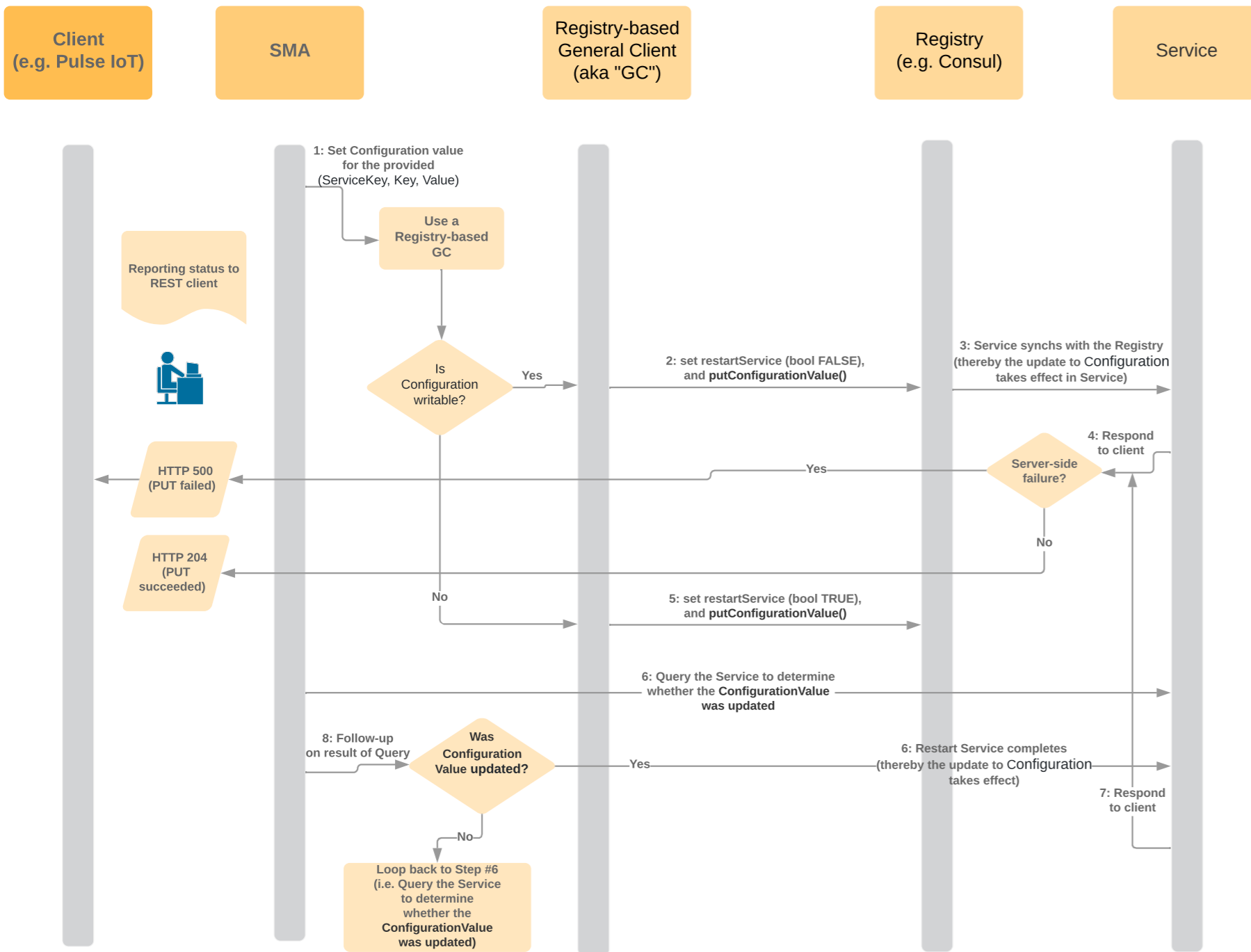# SMA Sets Configuration (Writable and non-Writable) *With* Restart

Akram Ahmad | June 11, 2019

Note that if a service is found to be *not* registered, the Registry responds with a Registry-specific error message.

Participants:
- Client (e.g. Pulse IoT)
- SMA
- Registry-based General Client (aka "GC")
- Registry (e.g. Consul)
- Service

Reporting status to REST client

1: Set Configuration value for the provided (ServiceKey, Key, Value)

Use a Registry-based GC

Is Configuration writable?

2: set restartService (bool FALSE), and putConfigurationValue() — Yes

3: Service synchs with the Registry (thereby the update to Configuration takes effect in Service)

4: Respond to client

Server-side failure?

HTTP 500 (PUT failed) — Yes

HTTP 204 (PUT succeeded) — No

5: set restartService (bool TRUE), and putConfigurationValue() — No

6: Query the Service to determine whether the ConfigurationValue was updated

8: Follow-up on result of Query

Was Configuration Value updated?

6: Restart Service completes (thereby the update to Configuration takes effect) — Yes

7: Respond to client

No — Loop back to Step #6 (i.e. Query the Service to determine whether the ConfigurationValue was updated)