Sequence Diagrams

Graphical overviews of complex processes

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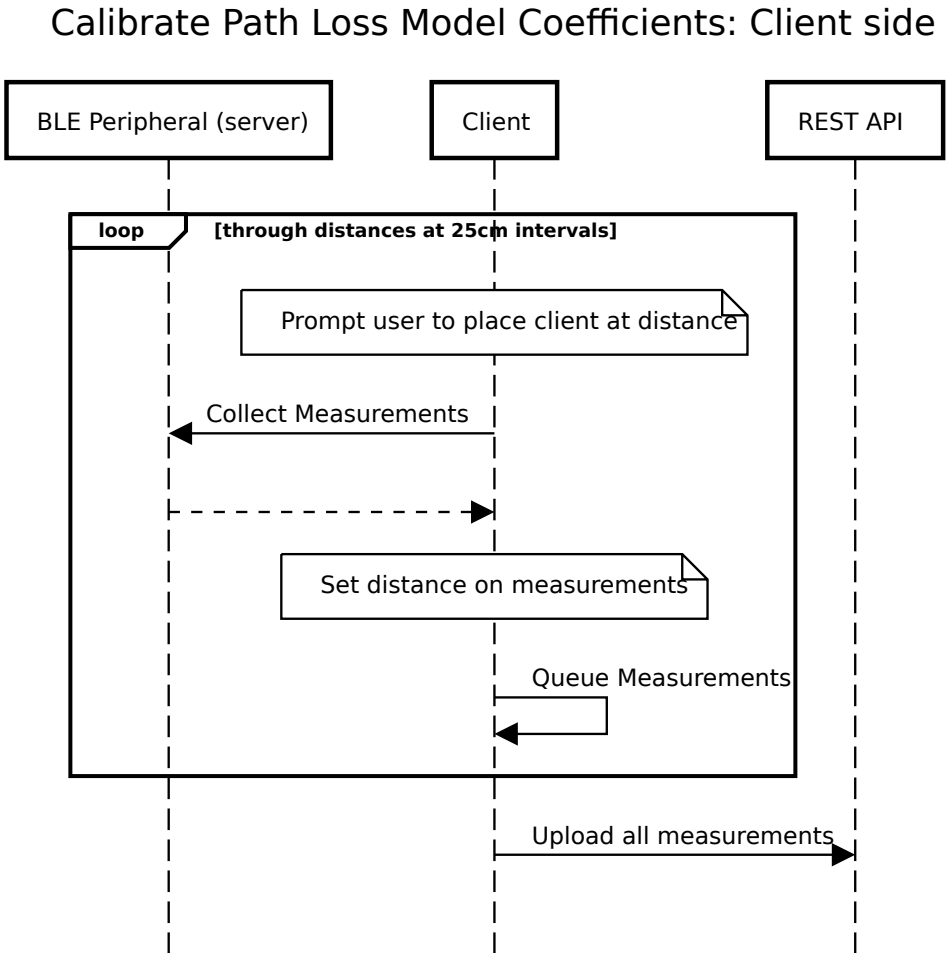
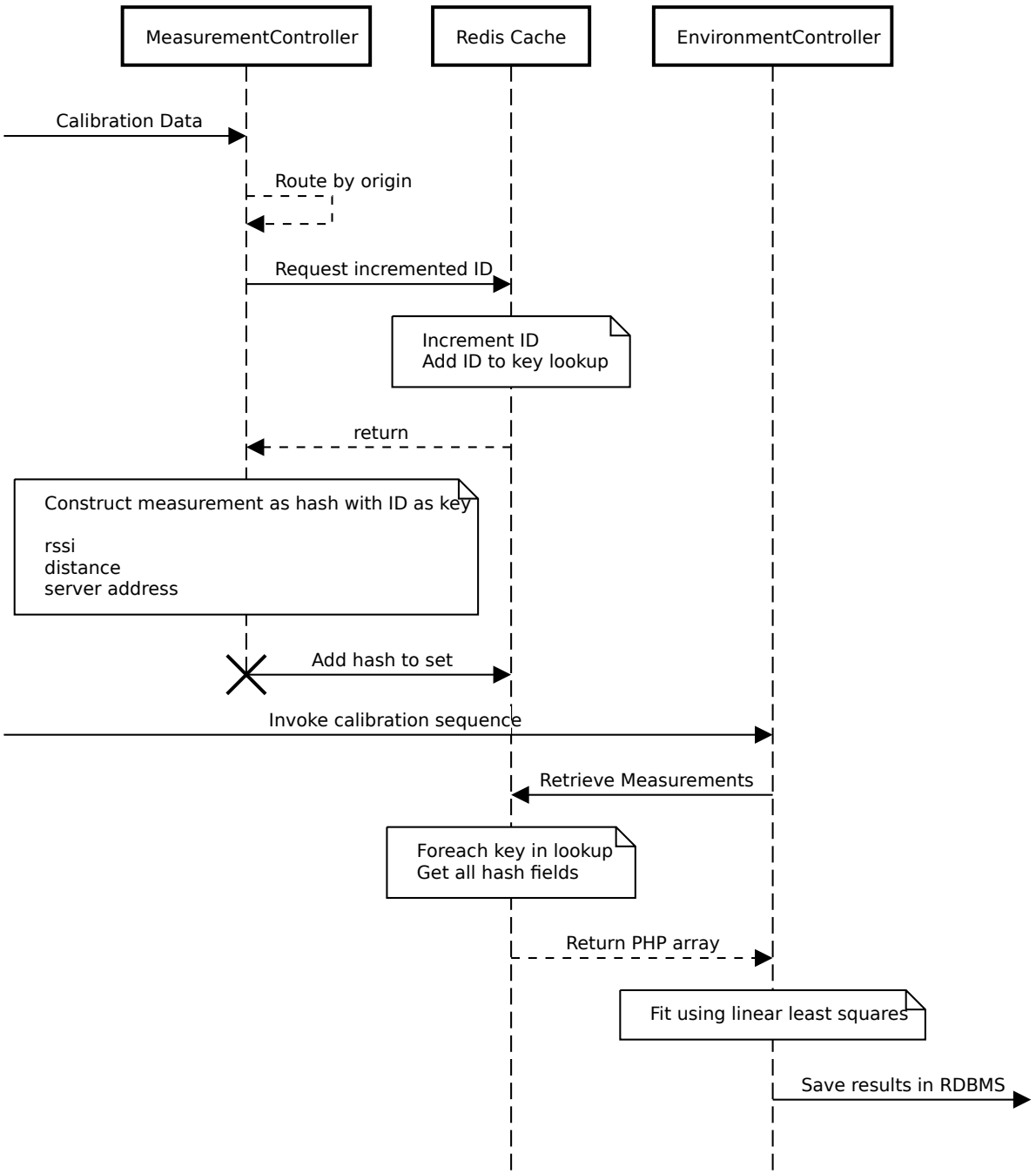
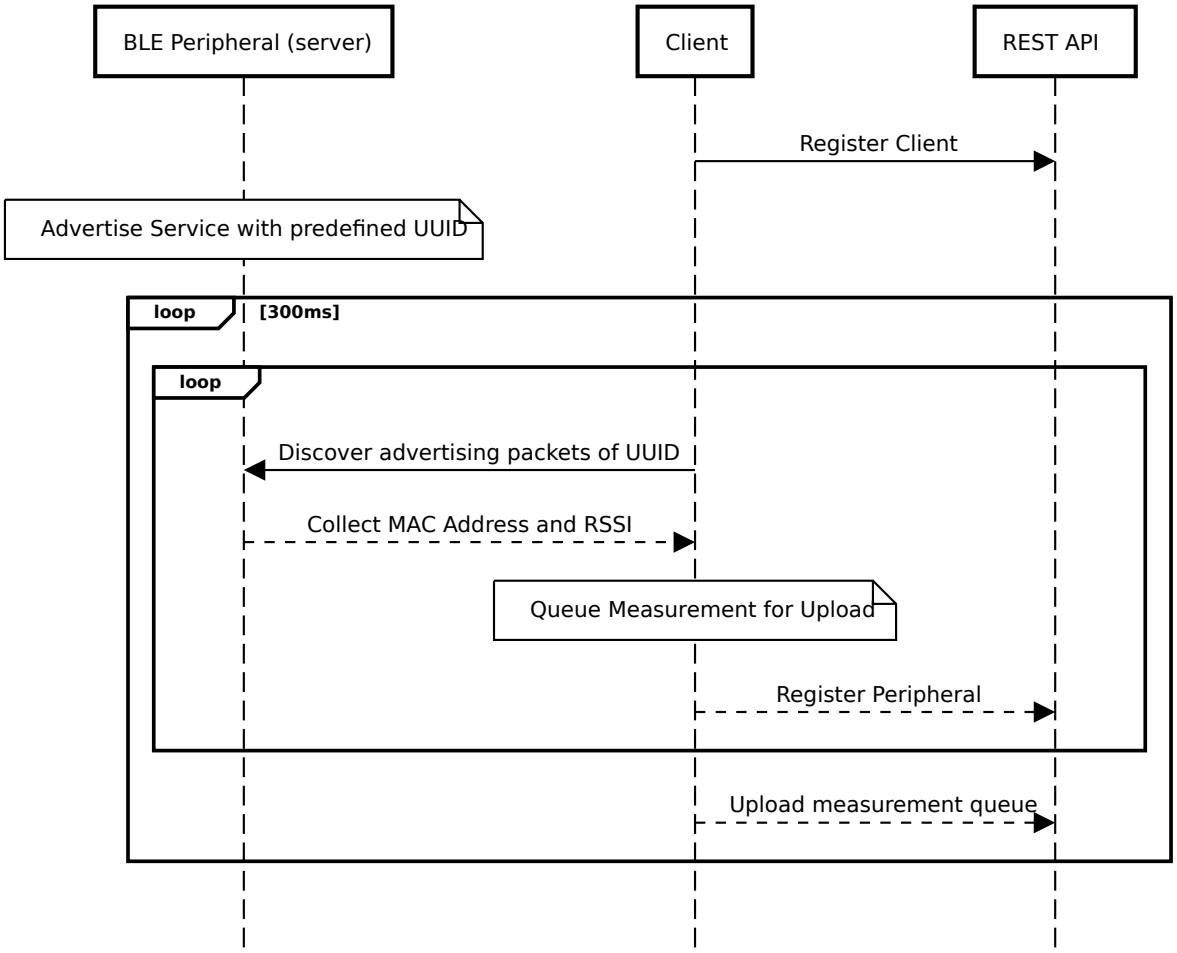


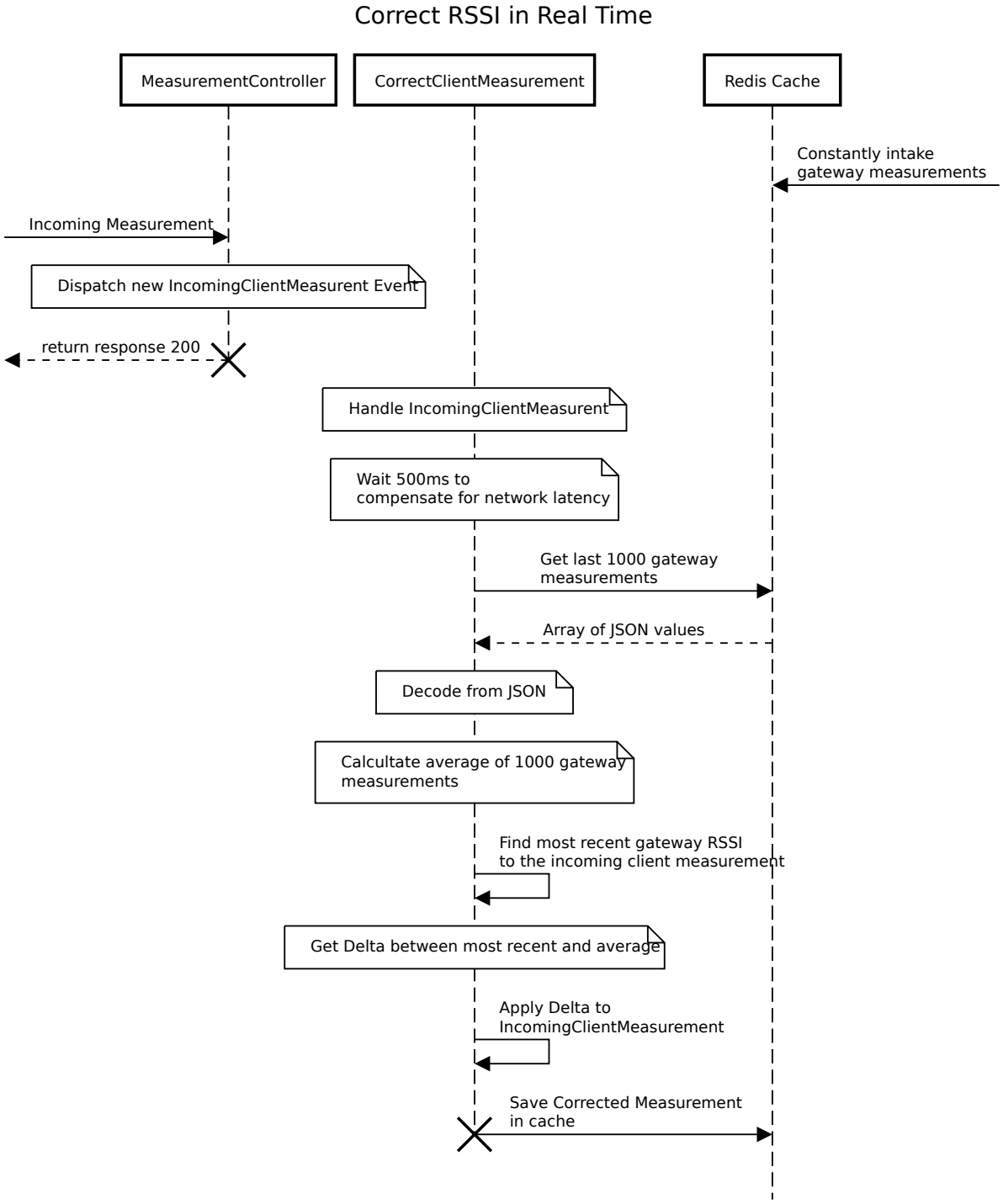
Figure 1: Client side calibration algorithm

Calibrate Path Loss Model Coefficients: Server side



Collecting and Uploading Measurements




Correct RSSI in Real Time
MeasurementController
CorrectClientMeasurement
Redis Cache
Constantly intake
gateway measurements
Incoming Measurement
Dispatch new IncomingClientMeasurent Event
return response 200
Handle IncomingClientMeasurent
Wait 500ms to
compensate for network latency
Get last 1000 gateway
measurements
Array of JSON values
Decode from JSON
Calcultate average of 1000 gateway
measurements
Find most recent gateway RSSI
to the incoming client measurement
Get Delta between most recent and average
Apply Delta to
IncomingClientMeasurement
Save Corrected Measurement
in cache