

I. Metrics Aggregation

Aggregation over time
range $[t_k - \Delta t * \alpha, t_k)$ for client n

a) RAN-Metrics
(DL-RSRP, -SINR, -MAC throughput)

b) Throughput over segments

c) Client buffer occupancy

d) Requested segments
(number of segments, qualities)

e) UE velocity (x, y, z velocity)

f) UE distance to each base station
(euclidean distance to each BS)

g) last gNodeB association

II. Prediction Model

a) No. of Segments
predictor

b) Quality mode
predictor

c) Base station
predictor

III. Prediction $P_{n,k}$

Predicted values for client
 n in time range $[t_k, t_{k+1})$

$N_{n,k}$ No. of segments
requested

$Q_{n,k}$ Segment quality
mode

$B_{n,k}$ Base station
association

