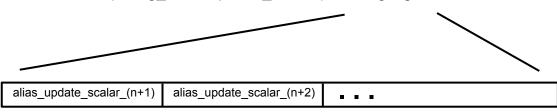
Alice shares: timing\_secret, ID\_secret

## Phase 1) Bob computes:

period\_start = current\_time - (PERIOD\_LENGTH % current\_time)

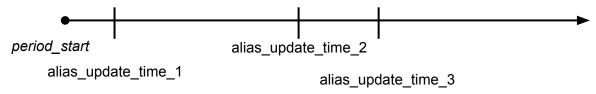
Generate alias\_update\_scalars:

SHA-256(timing\_secret, period\_start, n) = timing digest



Generate alias\_update\_times:

If current\_time < alias\_update\_time\_1, recompute using previous period.



last\_update\_time is the largest alias\_update\_time that does not exceed current\_time.

## Phase 2) Bob computes:

current\_pseudonym = SHA-256(timing\_secret, period\_start)