



Worker State Machine

- § Client sends a message, one of apply, prepare, commit, or flush.
- § Prepare
 - (client generates TID)
 - (client “aligns reads” including dependent revisions, sends Prepare)
 - check revisions, error if input too old
 - request deltas from logger, park. How to unpark?
 - verify deltas for conflict
 - log transaction
 - proceed as with Apply
- § Apply: return revision list or, if transaction exists, park. How to unpark?
- § Commit
 - log transaction, queue lazy flush
 - update repository
 - close transaction flag
- § Flush
 - post flush request to logger, return
 - logger posts flush confirmation when WAL is sync’ed
- § Flush Done (confirmation), respond to client

How to unpark Apply?

Revisor is asynchronous, which means deltas have to be written to the Worker socket. Suggest making this synchronous for now because WAL is in memory. Might be faster anyway.

N.B. Above diagram departs slightly from Nate’s description on 13 August wrt worker-logger interaction.