

C2SIM Server Throughput

- Open source server is a reference implementation
 - Single receive thread - not intended for high performance
 - Written in Java and includes debug & control features
 - Provides message translation for backward compatibility
- A major limiting factor is network latency
 - Round-trip time client to server
 - Data rate matters too, but not as much
 - REST transaction involves at least 3 client-server round trips
 - Should we change to persistent TCP connection?
- Ways to improve performance
 - Locate server to minimize overall client latency
 - Batch report send (multiple ReportContent in ReportBody)
 - Report send interval 30 sec or more (typical FFT?)
 - Systems that do not need reports do not subscribe in STOMP
 - Subscribe to only Initialization, Command, Order