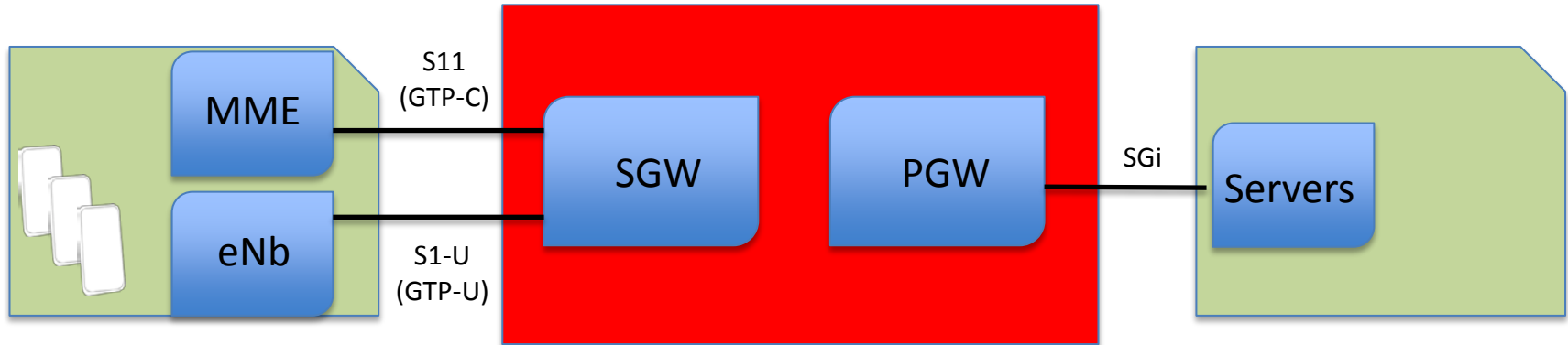


Mobility Traffic Profile

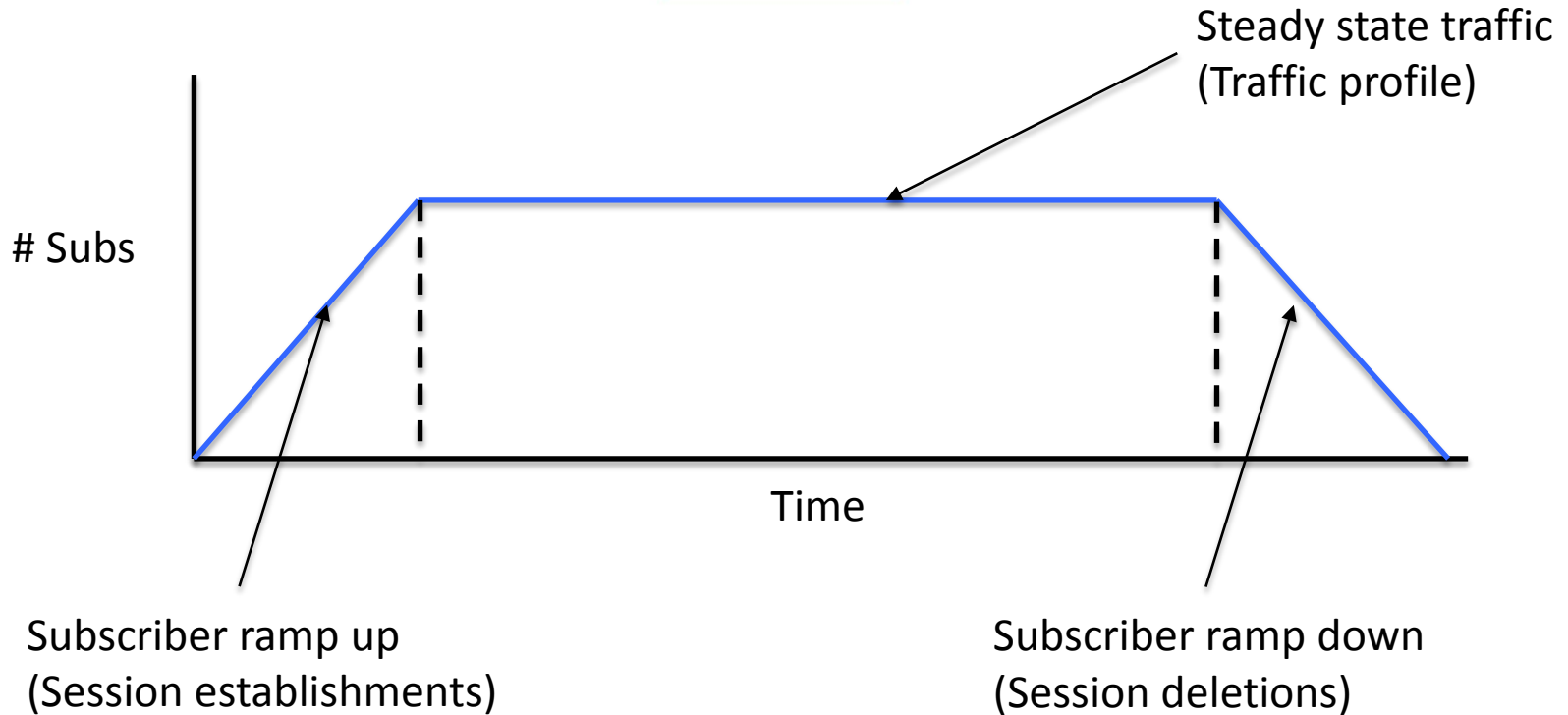
Proposed Architecture

Test Architecture

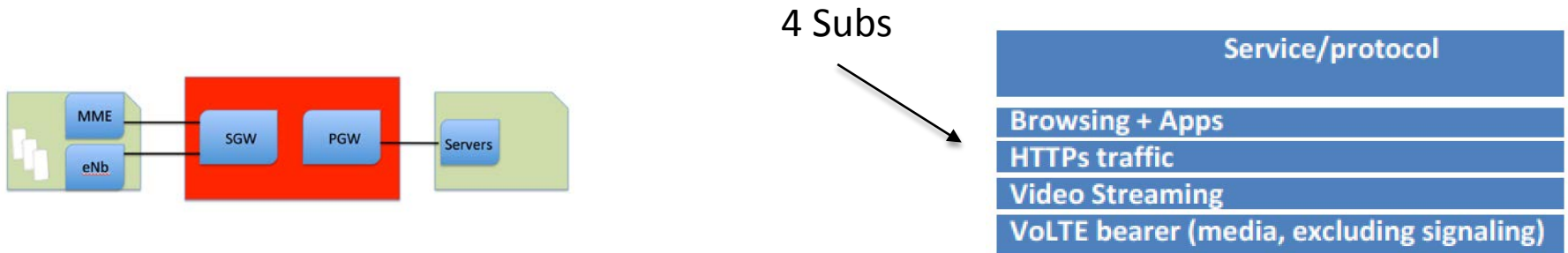


- SGW/PGW used because control plane not a goal now
- Plan B could be a network of FWs and/or Routers/Switches
 - Would remove need for GTP-based traffic and control
- All is virtual (SUT and Test Devices)

Traffic Generation Pattern

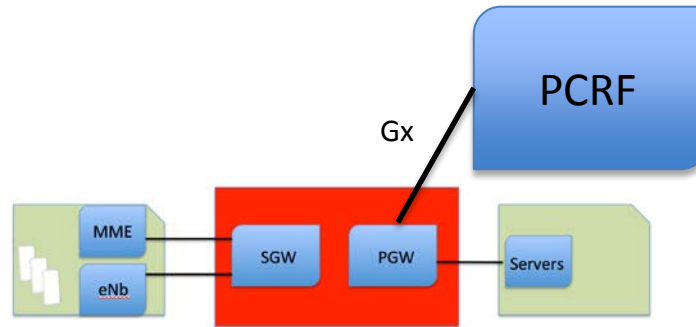


Test Parameters



- Test is scalable by amount of subscribers
 - 4 Subs used per “App Group”
- Same subscribers are used for the duration of the test
- YouTube used for video streaming (http streaming)
- VoLTE calls will last the duration of the test
- Measurements:
 - Latency, dropped packets, TCP resets, TCP retransmissions, etc → User Plane metrics

Open Issues



- SGW/PGW to use as SUT
 - Open Source?
 - Vendor?
- PCRF required for VoLTE
 - PGW might choke without it
 - Can replace with VoIP over the default bearer