Congestion Control Optimization of M2M in LTE Networks

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Abstract—This paper introduces optimization methods of M2M communication based on 3GPP standard. The optimization techniques are specified on M2M bearer within the mobile communication network. Its presentation intends to present an insight and approach to develop high quality communication frameworks for IoT data test-bed, based on Long Term Evolution (LTE) communications systems. The test-bed framework is achieved by featuring an emulation of Evolve Packet Core (EPC) construction using NetFPGA and OpenFlow platforms. The test-bed model will be expected to offer the sensitiveness control over IoT communication data type. In addition the emulation scheme provided by this test-bed will allow an extensive achievement toward M2M over LTE compliance for IoT integrated architecture in the near future.

Keyword—Internet of Things (IoT), Machine-to-Machine (M2M), Human-to-Human (H2H), Long Term Evolution (LTE), NetFPGA, OpenFlow.

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