

Telecom Carrier SDN Solution

M2M Solutions over SDN

NEC M2M solutions enable Telecom Carrier to optimize Telecom Carrier's Network infrastructure for M2M services.

M2M traffic has different characteristics and should be optimized.

Background

In past 5 years, M2M market volume in Japan has gradually expanded and it became double. However, M2M market volume growth is lower than expected by market analyst's report. Therefore, we need to build solution of the "GAP".

Solution Concept

NEC though that the reason why there is a "GAP" is current Telecom Operator's network are designed for cell-phone and smartphones, but M2M traffic has different characteristics from that. NEC propose M2M traffic should be optimized by SDN.

Reduce CAPEX and OPEX

Reduce Network investments

As we mentioned above, M2M traffic has different characteristics. For example, C-plan traffic load is quite huge even though U-plan consumption is lower than smartphone traffic. If Operators invest network infrastructures based on C-Plan load, it's difficult to get a return on investment.

NEC SDN solutions solve the problem by realizing CAPEX/OPEX reduction.

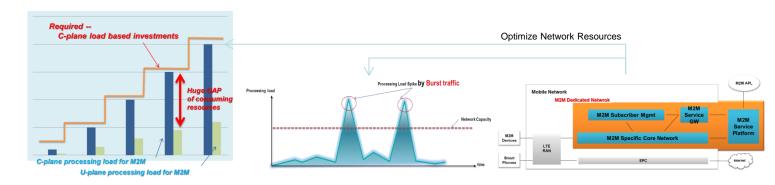
Interworking with M2M platform

manage "Traffic burst"
In case of M2M services, main traffic model is "batch processing". It means time to occur M2M traffic is quite limited and traffic bursts tend to happen. If M2M PF gives NW infra. traffic forecast and SLA for each M2M services, N EC SDN solution can reduce ineffectual C-Plane loads and manage traffic bursts due to priority control per M2M services. The architecture is under discussion in 3GPP and NEC joins the activity.

M2M Dedicated Network

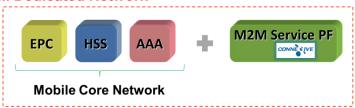
Propose dedicated NW for M2M

NEC proposes to implement dedicated network for M2M services. in order to realize Network which generate profit from low ARPU for M2M. We believe that unnecessary functions (for example voice service, mobility management) deletion and efficient operation are realized by dedicated M2M NW.

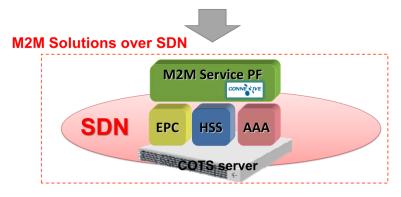


M2M Solutions over SDN

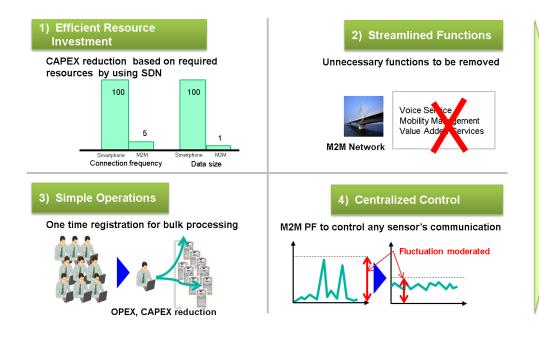
M2M Dedicated Network

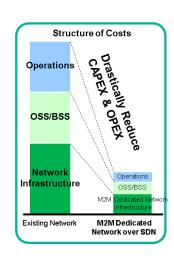


Reducing M2M Traffic loads using interworking between Mobile Core Network and M2M Service Platform



- Complicated Network to Simple Network by SDN
- Quick Deployment with streamlined functions only





NEC Corporaiton 2nd Carrier Service Division

<Address> 2nd Tamachi building, 14-1, Shiba 4-chome, Minato-ku, Tokyo, Japan

<Contacts > contact@m2m.jp.nec.com