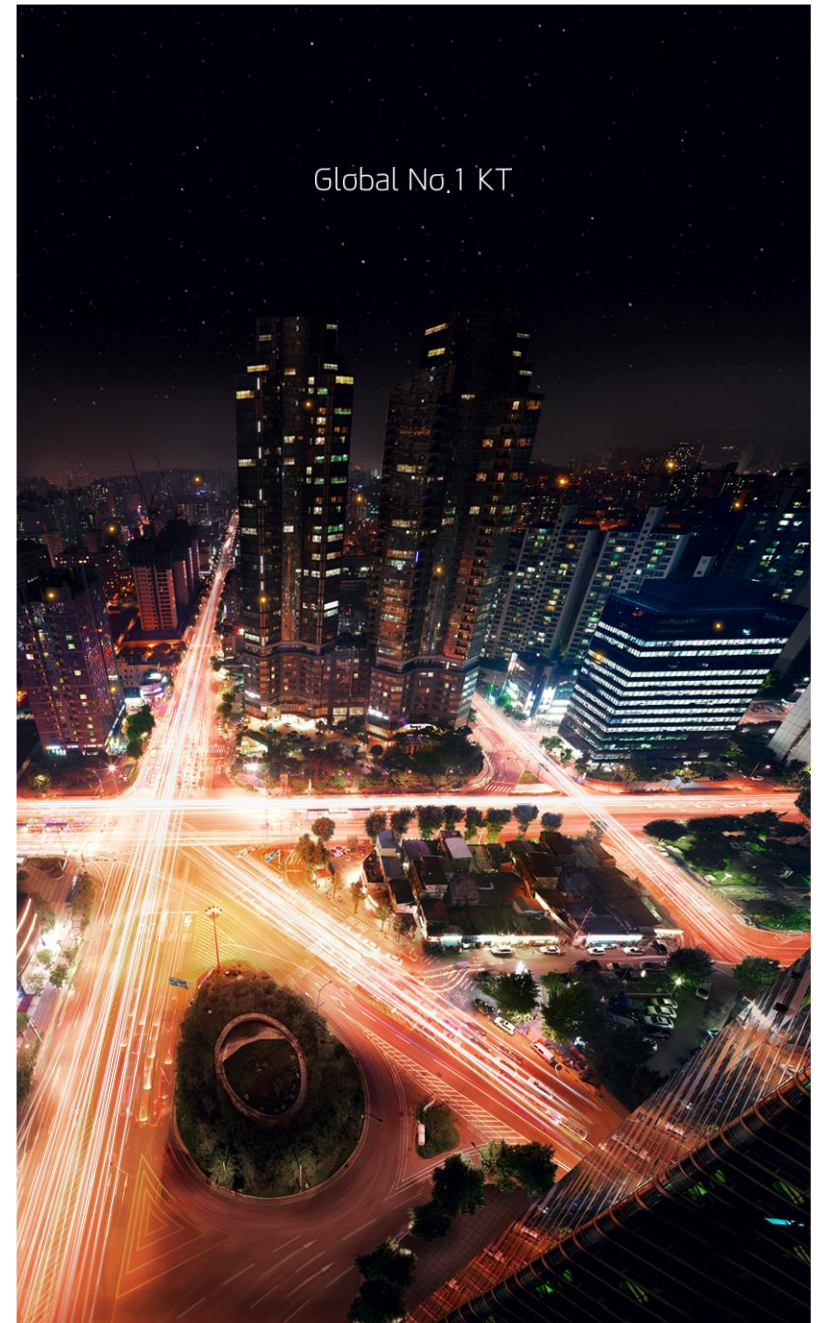


KT's GiGA LTE

- Mobile MPTCP Proxy Deployment

SungHoon Seo

2016. 11

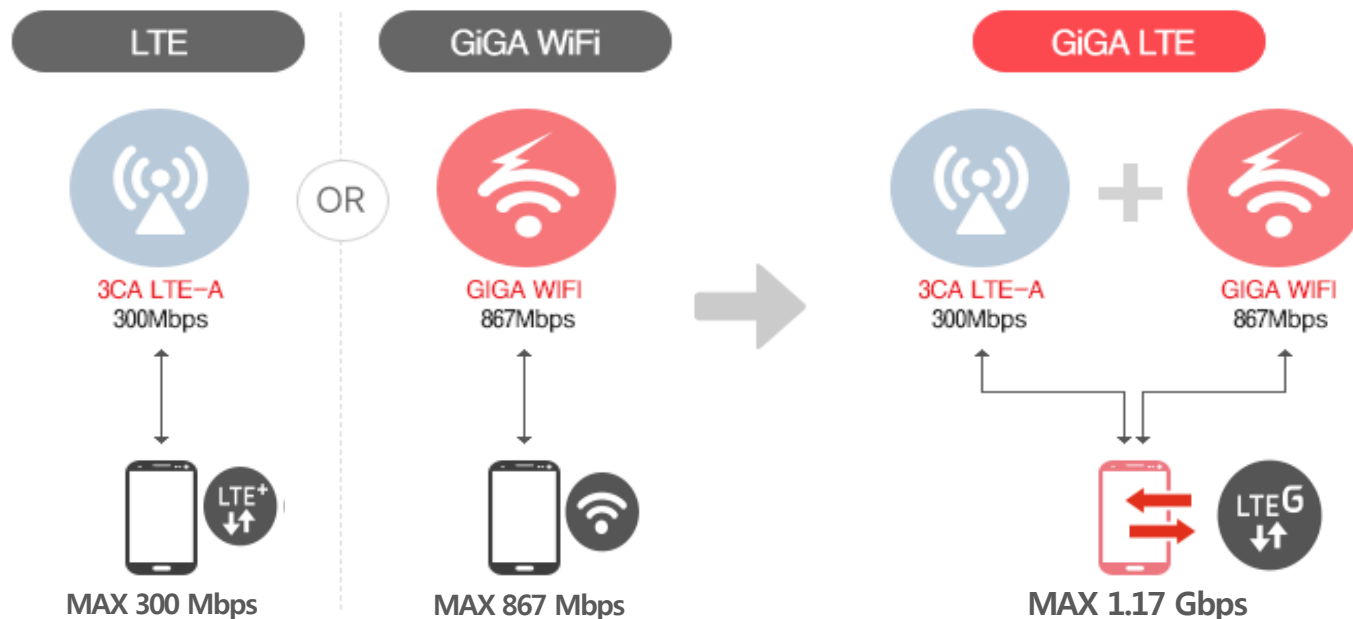


01 Updates

KT started launching mobile MPTCP proxy service in commercial since June 2015

- **GiGA LTE (a.k.a., GiGA Path, mobile MPTCP proxy)**

- Premium service providing the fastest mobile data speed (theoretically LTE + WiFi combined giga bps)
- Deploy mobile MPTCP proxy gateways w/ UE support (national-wide LTE/3G and public/private WiFi coverage)
- Collaboration with handset vendors (Samsung and LG electronics) : now have 11 smartphone models in service
- Technology transfer : exported to other country, e.g., Turk Telekom's "GiGA 4.5G" in service since Apr. 2016



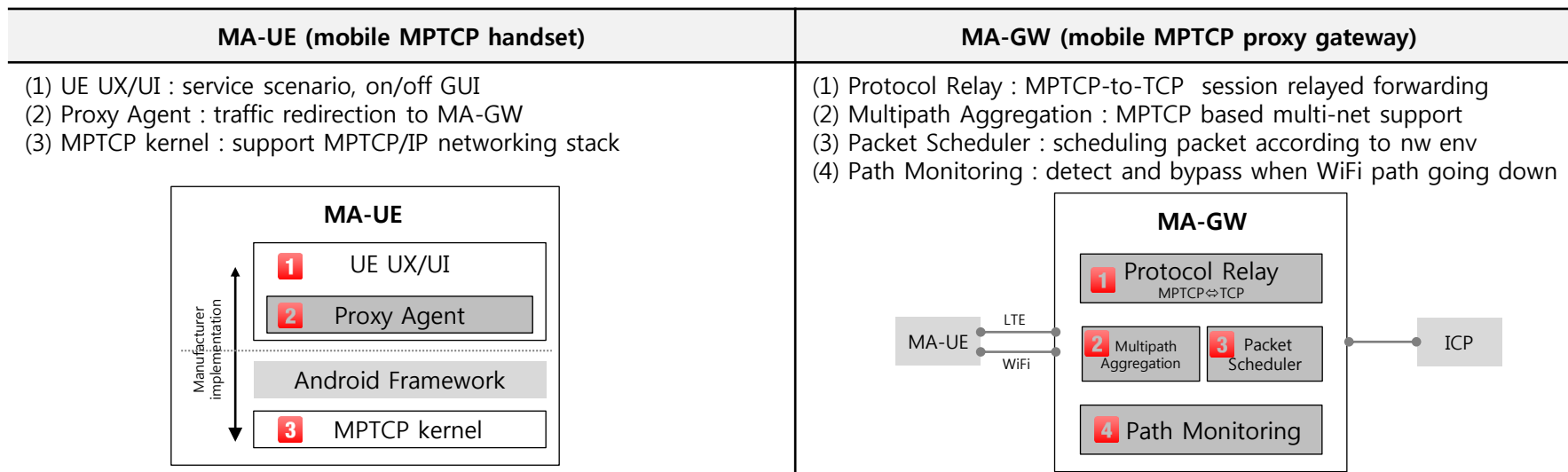
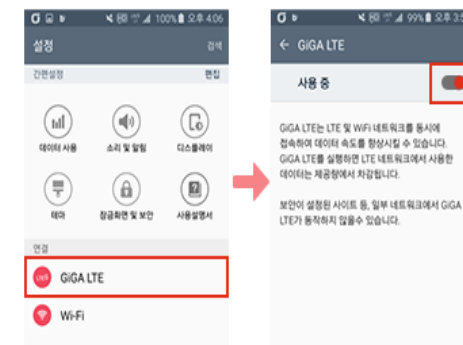
※ Theoretical maximum speed. it may vary according to network conditions.

02 Deployment status

Both mobile MPTCP proxy gateway and UE are ready to work for every applications

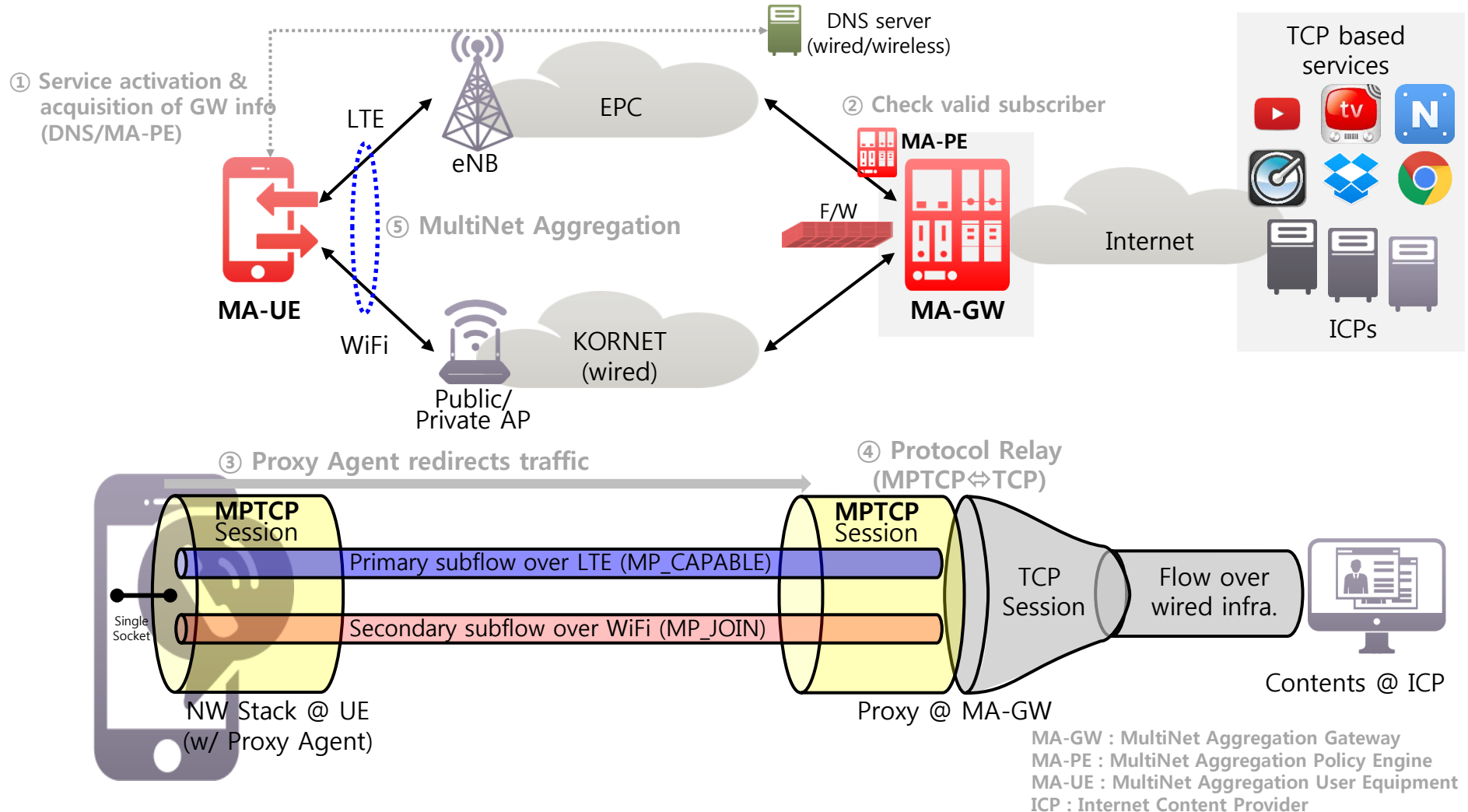
● Protocol and basic functionalities

- Ported MPTCP kernel v0.89 → v0.90 from multipath-tcp.org (compatible with MPTCP WG rfc 6824)
 - 2 subflows maintained per session : LTE for MP_CAPABLE and WiFi for MP_JOIN
 - Default packet scheduler with fullmesh path manager
 - Well known proxy protocol basis : SOCKSv5
 - UE's traffic redirected to the GW (both up/downlink, and UDP as well)
- Turns on "GiGA LTE" button, that's all subscribers to do
 - All application using TCP works via mobile MPTCP proxy
 - Subscriber should have billing plan required for GiGA LTE service



03 Mobile MPTCP Proxy System Deployment

How GiGA LTE works? Explicit proxy deployment model



Thank you

