# IETF 91 - MPTCP WG

# **KT's MPTCP Proxy Experiences**

kt

Deployment and testing considerations

SungHoon Seo (Speaker)

J. Ryu, J. Kim, S. Min, C. Oh, and J. Hyun

2014. 11. 14



# 01 Introduction

#### What we've done

- Designed MPTCP proxy deployment model for Korea Telecom (operates national-wide LTE/3G and public WiFi)
- Implemented the proposed MPTCP proxy on x86 server
- Also, implemented UE solution with MPTCP kernel

### • KT's proposed MPTCP proxy deployment model

- No touch on existing NW infrastructure: no modification or interworking with LTE EPC and wireline middle boxes
- Only the specific traffic from UE is routed to the proxy, other traffics flows through normal routing path
- We call it "Explicit MPTCP deployment model"



# 02 Main Features



General) GiGA Path provides WiFi automatic on/off functionality to white-list Apps

- 1) Development of terminal side white-list architecture is done, integration with MP-PE is under development
- 2) It may vary depending on business requirement, throttling based differentiation for subscribers' class is ready



# 04 Deployment topology @ commercial site



#### Future work 05



#### Possible IETF work

- Participate in authoring internet draft for the explicit proxy model and/or MP-PE

#### **Cooperation with terminal vendors for MPTCP support**

- Requires common requirements within telecom operators

# Stabilization of MPTCP kernel for Proxy architecture

- Minimize side effect on kernel against UE-driven proxy support



# Thank you