# MPTCP proxy mechanisms

(draft-wei-mptcp-proxy-mechanism-00)

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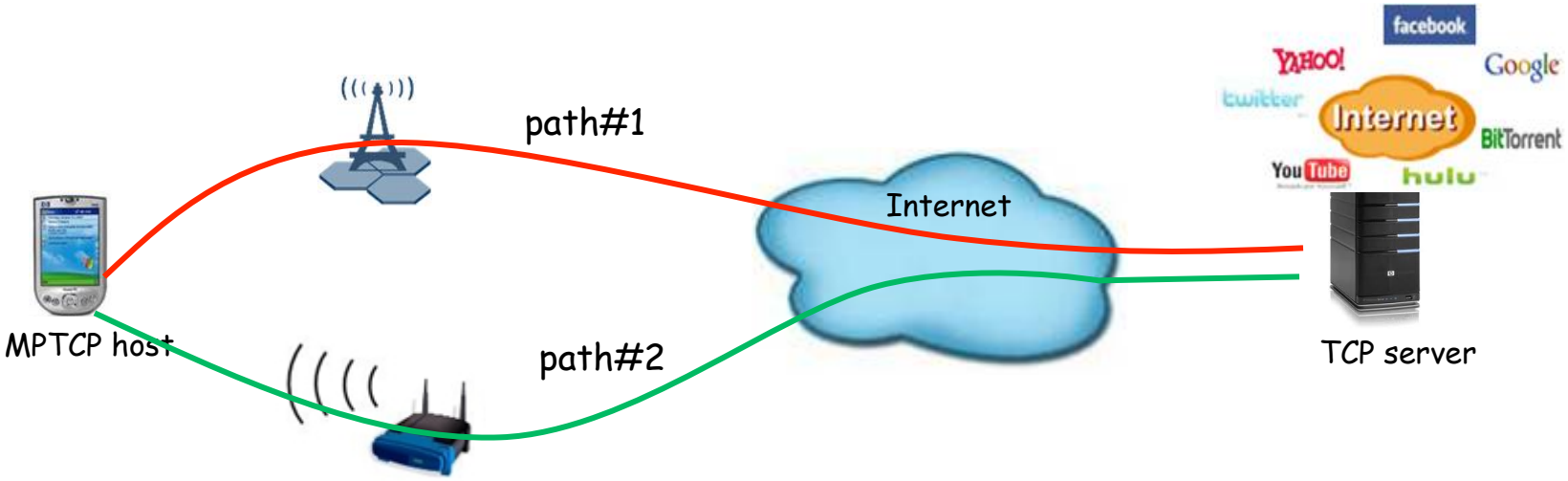
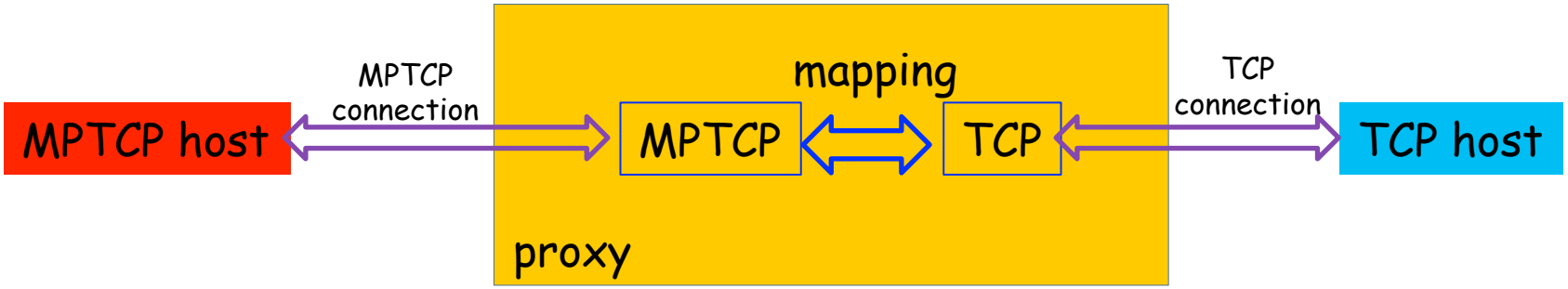
# Why MPTCP proxy is needed? --An example

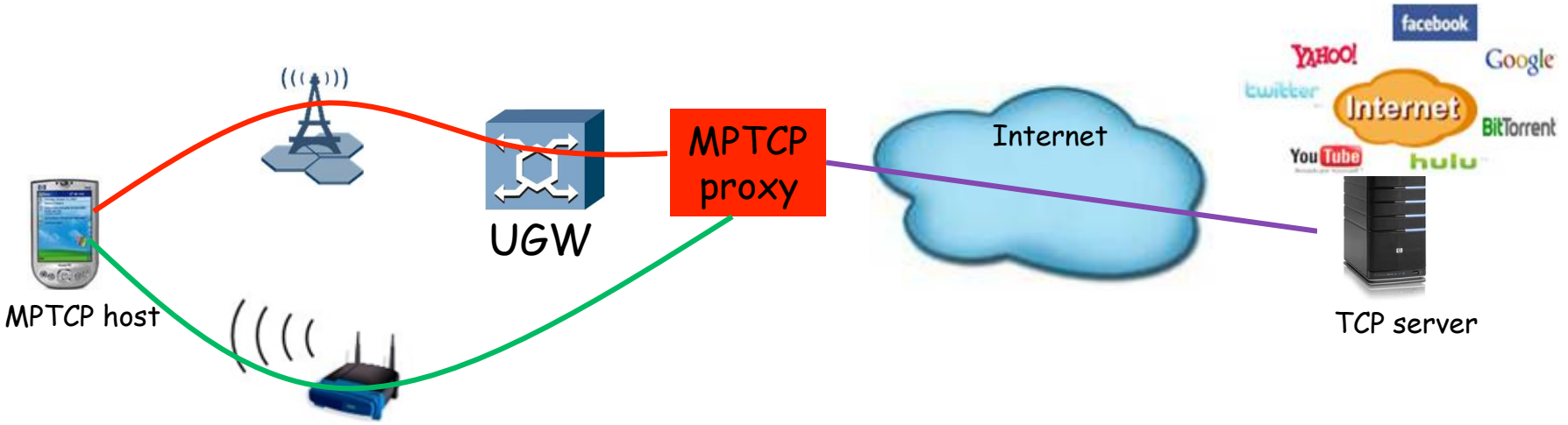



Currently most of servers on Internet are TCP server, and this situation will significantly prevent MPTCP-capable hosts to fully benefit from MPTCP.

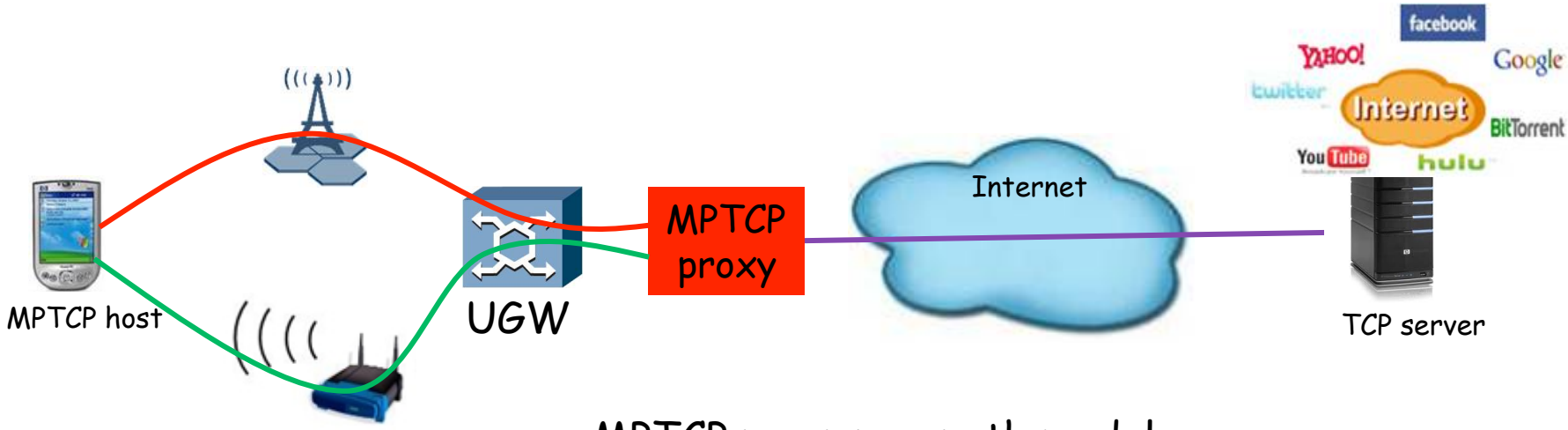
# Basic concept of MPTCP proxy



# How could MPTCP proxy be deployed?

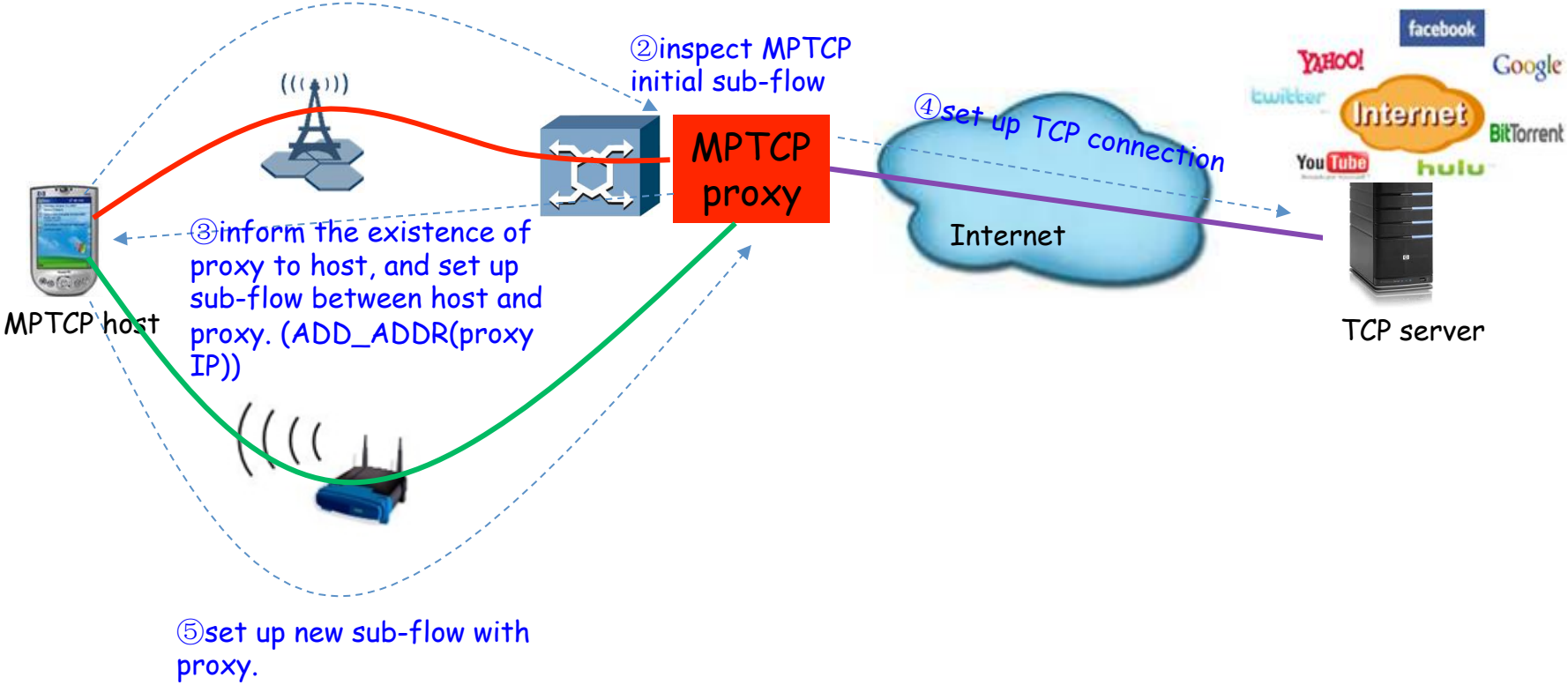



MPTCP proxy: off-path model

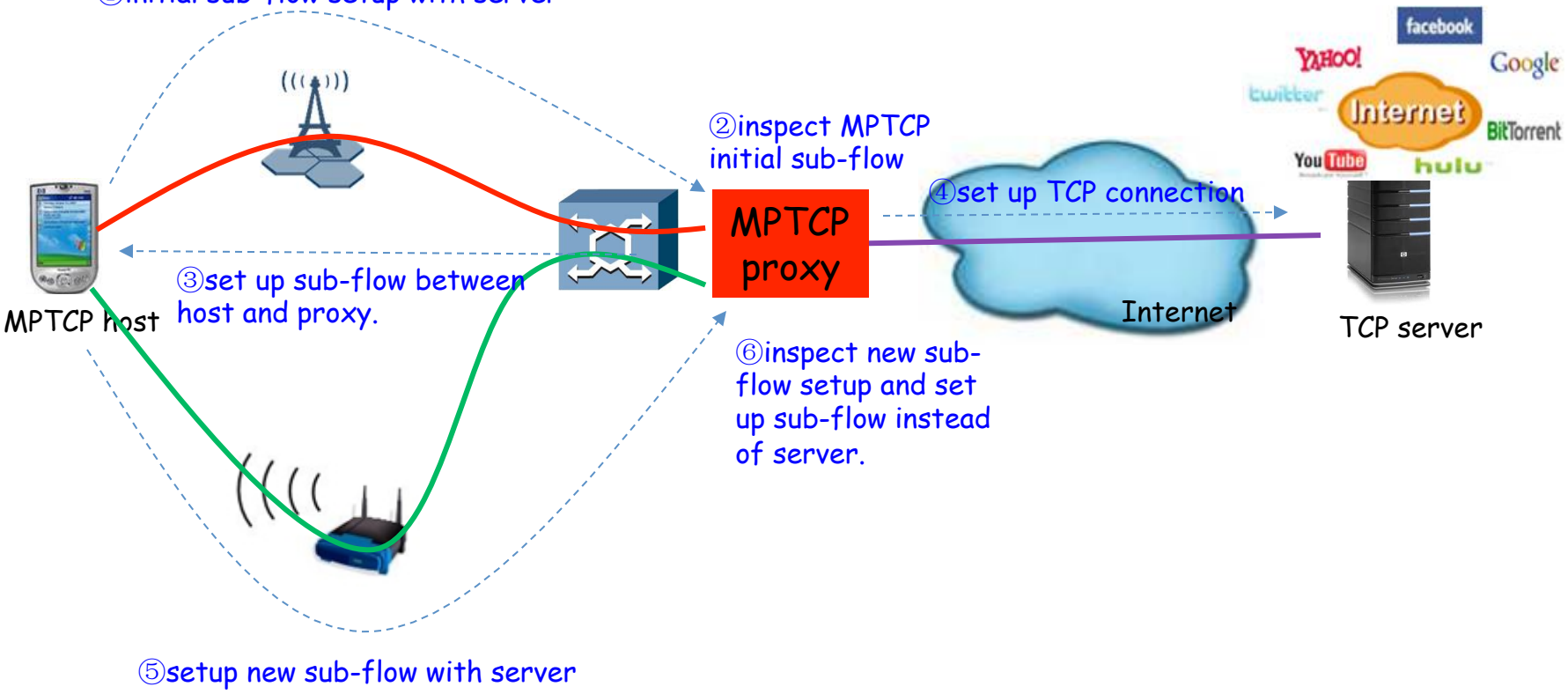



MPTCP proxy: on-path model

# Mechanisms for off-path MPTCP proxy



# Mechanisms for on-path MPTCP proxy



# Extension to MPTCP protocol

A new flag 'P' in MPTCP MP_CAPABLE option needs to be defined, refer to RFC 6824, Section 3.1. This flag is used by proxy to inform MPTCP capable host the existence of proxy.