

## **ABSTRACT**

The present invention relates to the field of communications, and provides a data transmission system, a data transmission method, and a data aggregation method and apparatus. The system comprises eNBs, WTs, a WLAN AP, and a UE. The WTs are connected to the eNBs in one-to-one correspondence fashion, and are connected to at least one WLAN AP. The UE is configured to send an LTE data packet to a target eNB by means of an LTE network, the target eNB being an eNB that establishes an RRC connection with the UE. The UE is configured to send a WLAN data packet to the WLAN AP, the WLAN data packet comprising a MAC address of a target WT connected to the target eNB. The WLAN AP is configured to send the WLAN data packet to the target WT according to the MAC address of the target WT. The target WT is configured to send the WLAN data packet to the target eNB. The target eNB is configured to aggregate the LTE data packet and the WLAN data packet.

FIG. 4A