WIRELESS COMMUNICATION METHOD AND APPARATUS FOR REPORTING TRAFFIC VOLUME MEASUREMENT INFORMATION TO SUPPORT ENHANCED UPLINK DATA TRANSMISSIONS

Abstract

A wireless communication method and apparatus for reporting traffic volume measurement (TVM) information used to support enhanced uplink (EU) data transmissions between a wireless transmit/receive unit (WTRU), i.e., a mobile station, and a Node-B. After storing EU data in a buffer, the WTRU sends an initial TVM information request message to the Node-B indicating that the WTRU has EU data available to send to the Node-B. In response, the Node-B schedules one or more allowed EU data transmissions. The WTRU transmits at least a portion of the stored EU data to the Node-B via the allowed EU data transmissions. In one embodiment, the initial TVM information request message is sent by the WTRU only after the quantity of EU data stored in the buffer of the WTRU exceeds an established threshold. Otherwise, all of the stored EU data is transferred to the Node-B without requiring scheduling by the Node-B.

Fig. 2