Abstract

METHODS AND DEVICES FOR SELECTIVE SUBCHANNEL TRANSMISSION OPERATION IN WIRELESS LOCAL AREA NETWORKS

Embodiments of the invention provide methods and devices for selective subchannel transmission (SST) operation in a WLAN. The method carried out by an access point (AP) comprises: setting, by the AP, a target wake time (TWT) element of a TWT response to indicate a subchannel provided to a station (STA) as a temporary channel during a TWT service period (SP), wherein whether the subchannel is in a first channel or a second channel depends on a channel puncturing pattern of a basic service set (BSS) with which the STA is associated, and sending, by the AP, the TWT response to the STA to establish an individual TWT agreement between the AP and the STA. Embodiments of the invention also provide the method carried out by the STA as well as the AP and STA for SST operation in a WLAN.

(Figure 2A)