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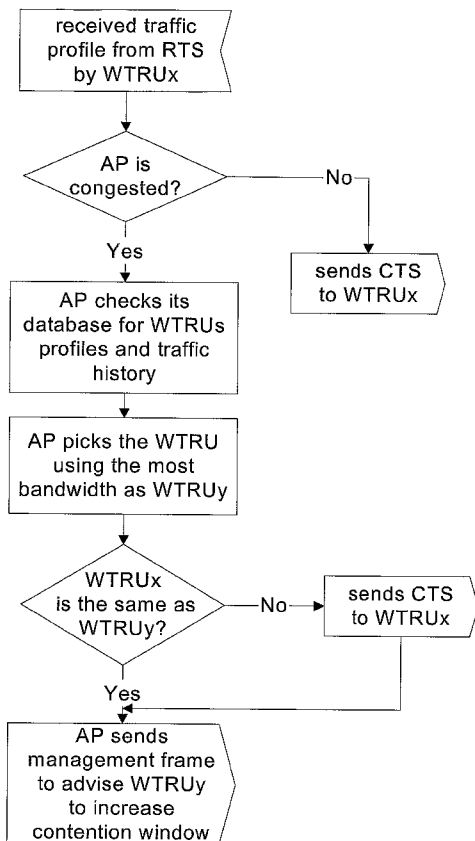
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(54) Title: WIRELESS LOCAL AREA NETWORK (WLAN) METHODS AND COMPONENTS THAT UTILIZE TRAFFIC PREDICTION



(57) Abstract: A communication method, system and components are provided that includes use of traffic predictions determined by a wireless transmit/receive unit (WTRU). Preferably, the invention is implemented by predicting traffic in a wireless local area network (WLAN), between a WTRU and a WLAN access point (AP) that begins by determining a traffic level at the WTRU. Traffic prediction information is sent by the WTRU to the AP where it is used in conjunction with the generation of commands sent to WTRUs to control the manner of access by WTRUs to the WLAN via the AP. WTRUs receive instructions as to admission and are preferably configured to receive and implement instructions to adjust the contention window used by the WTRU to transmit data.

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