

CLAIMS

1. A method for use in a wireless transmit/receive unit (WTRU), the method comprising:

maintaining a Basic Service Set (BSS) parameter update counter associated with a BSS associated with a primary connectivity radio (PCR) transceiver;

receiving, via the PCR transceiver, a beacon frame or a wake-up radio (WUR) action frame that includes a ~~wake-up radio (WUR)~~WUR operation element having a first counter value indicating a current value of the BSS parameter update counter associated with the BSS ~~associated with~~of the PCR transceiver;

updating the BSS parameter update counter to the first counter value received in the WUR operation element;

deactivating the PCR transceiver and ~~activating a wake-up radio (WUR) transceiver~~entering a WUR mode, wherein the PCR transceiver enters into a doze state~~and the WUR transceiver is in an awake state~~;

~~receiving, via the WUR transceiver in the awake state,~~ a WUR frame that includes a second counter value indicating that an update of a plurality of BSS parameters associated with the BSS of the PCR transceiver is available; and

on a condition that the second counter value is different than the BSS parameter update counter, activating the PCR transceiver to receive a beacon frame including an update of the plurality of BSS parameters.

~~2. (Canceled)~~

32. The method of claim 1, wherein the action frame is a WUR mode setup frame.

43. The method of claim 1, further comprising activating a WUR transceiver to enter the WUR mode after the PCR transceiver is deactivated, wherein the WUR transceiver is a companion radio.

~~54.~~ The method of claim 1, wherein the WUR frame is a broadcast WUR wake-up frame.

~~6. (Canceled)~~

~~75.~~ The method of claim 1, further comprising:
transmitting, via the PCR transceiver in ~~the~~an awake state, a response frame in response to the WUR frame.

~~86.~~ A wireless transmit/receive unit (WTRU) comprising:
a primary connectivity radio (PCR) transceiver; and
a processor,
~~a~~the processor and the PCR transceiver configured to:
maintain a Basic Service Set (BSS) parameter update counter associated with a BSS ~~associated with a primary connectivity radio (PCR) of the PCR~~ transceiver;

~~the PCR transceiver configured to~~ receive a beacon frame or a wake-up radio (WUR) action frame that includes a ~~wake-up radio (WUR)~~WUR operation element having a first counter value indicating a current value of the BSS parameter update counter associated with the BSS associated with the PCR transceiver;

~~the processor further configured to~~ update the BSS parameter update counter to the first counter value received in the WUR operation element;

~~a wake-up radio (WUR) transceiver operatively coupled to the PCR transceiver;~~

~~the processor further configured to~~ deactivate the PCR transceiver and ~~activate the WUR transceiver~~enter a WUR mode, wherein the PCR transceiver enters into a doze state ~~and the WUR transceiver is in an awake state;~~

~~the WUR transceiver in the awake state further configured to~~ receive, while in the WUR mode, a WUR frame that includes a second counter value

indicating that an update of a plurality of BSS parameters associated with the BSS of the PCR transceiver is available; and

~~the processor further configured to,~~ on a condition that the second counter value is different than the BSS parameter update counter, activate the PCR transceiver to receive a beacon frame including an update of the plurality of BSS parameters.

~~9. (Canceled)~~

~~107.~~ The WTRU of claim ~~86~~, wherein the action frame is a WUR mode setup frame.

~~118.~~ The WTRU of claim ~~86~~, wherein the processor is further configured to activate a WUR transceiver to enter the WUR mode after the PCR transceiver is deactivated, wherein the WUR transceiver is a companion radio.

~~129.~~ The WTRU of claim ~~86~~, wherein the WUR frame is a broadcast WUR wake-up frame.

~~13. (Canceled)~~

~~1410.~~ The WTRU of claim ~~86~~, wherein the PCR transceiver in ~~the-an~~ awake state is further configured to transmit a response frame in response to the WUR frame.