

## Annex 1

1. 1. A method (500) for controlling discontinuous reception, DRX, in a wireless transmit/receive unit, WTRU, (110) the method **characterized by** comprising:
  - receiving DRX configuration parameters from an eNodeB, eNB, (120), wherein the DRX configuration parameters comprise a first DRX cycle length, a second DRX cycle length, and a value for a first WTRU timer used for implicitly transitioning the WTRU between DRX cycle lengths;
  - operating (502) the WTRU at the first DRX cycle length;
  - using a second WTRU timer to trigger a transition to the second DRX cycle length;
  - operating (508) the WTRU at the second DRX cycle length, wherein the first DRX cycle length is a multiple of the second DRX cycle length;
  - setting the first WTRU timer upon beginning operation at the second DRX cycle length;
  - determining that the first WTRU timer has expired; and
  - responsive to determining that the first WTRU timer has expired, transitioning (512) to the first DRX cycle length without receiving explicit signaling from the eNB.
2. The method as in claim 1, further comprising synchronizing the first WTRU timer with a base station timer at the eNB.
3. The method as in claim 1, wherein the first DRX cycle length is a default DRX cycle length.
4. The method as in claim 1, wherein the DRX configuration parameters are received from the eNB via higher layer signaling.
5. The method as in claim 1, further comprising:
  - defining a DRX life span; and
  - redefining the plurality of DRX cycle lengths once per DRX life span.
6. The method as in claim 1, wherein the DRX configuration parameters are received in a radio resource control, RRC, message
7. The method as in claim 1, wherein the first WTRU timer is in units of Long Term Evolution, LTE, frames.
8. The method as in claim 1, wherein implicit transitions are implemented at a Medium Access Control, MAC, level.
9. A wireless transmit receive unit, WTRU, (110), **characterized by** a processor (215) being configured to:
  - receive discontinuous reception, DRX, configuration parameters from an eNode B, eNB, (1020), wherein the DRX configuration parameters comprise [sic] a first DRX cycle length, a second DRX cycle length, and a value for a first WTRU timer used for implicitly transitioning the WTRU between DRX cycle lengths; and

operate (502) the WTRU at the first DRX cycle length;

use a second WTRU timer to trigger a transition to the second DRX cycle length;

operate (508) the WTRU at the second DRX cycle length, wherein the first DRX cycle length is a multiple of the second DRX cycle length;

set the first WTRU timer upon beginning operation at the second DRX cycle length;

determine that the first WTRU timer has expired; and

responsive to determining that the first WTRU timer has expired, transition (512) the WTRU to the first DRX cycle length without receiving explicit signaling from the eNB (120).

10. The WTRU as in claim 9, wherein the DRX configuration parameters are received from the eNB via higher layer signaling.
11. The WTRU as in claim 9, wherein the processor is further configured to synchronize the first WTRU timer with a base station timer utilized by the eNB.
12. The WTRU as in claim 9, wherein the DRX configuration parameters are received in a radio resource control, RRC, message.