

CLAIMS

What is claimed is:

1. A method for operating with bandwidth parts, BWPs, in a wireless device operating in a wireless communication network and configured to selectively operate in one or more BWPs configured by the wireless communication network, the method comprising:
 - monitoring (202) an active BWP of the one or more BWPs for a downlink control channel;
 - detecting (204) a reset event triggering a reset of a Medium Access Control, MAC, entity in the wireless device; and
 - responsive to detecting the reset event, switching (206) the active BWP to a predetermined default BWP of the one or more BWPs.
2. The method of claim 1, wherein the predetermined default BWP is a predetermined initial BWP of the one or more BWPs.
3. The method of claim 1 or 2, wherein switching (206) the active BWP to the predetermined default BWP comprises switching an active downlink BWP to a predetermined default downlink BWP, and wherein the method further comprises switching an active uplink BWP to a predetermined default uplink BWP, responsive to detecting the reset event.
4. The method of any of claims 1-3, wherein the detected reset event comprises leaving RRC connected mode.
5. The method of any of claims 1-3, wherein the detected reset event comprises any event selected from the following:
 - cell reselection while the wireless device is waiting for a response to a Radio Resource Control (RRC) message sent to the wireless communication network;
 - expiry of a timer started upon the sending of an RRC connection establishment request;
 - receipt of an RRC connection reject message;
 - aborting of an RRC connection triggered by the wireless device;
 - initiation of an RRC connection re-establishment; and
 - failure of a handover.

6. A wireless device adapted to:
- monitor (202) an active BWP of the one or more BWPs for a downlink control channel;
 - detect (204) a reset event triggering a reset of a Medium Access Control (MAC) entity in the wireless device; and
 - responsive to detecting the reset event, switch (206) the active BWP to a predetermined default BWP of the one or more BWPs.
7. The wireless device according to claim 6, wherein the predetermined default BWP is a predetermined initial BWP of the one or more BWPs.
8. The wireless device according to claim 6-7, wherein to switch (206) the active BWP to the predetermined default BWP comprises switching an active downlink BWP to a predetermined default downlink BWP, and wherein the method further comprises switching an active uplink BWP to a predetermined default uplink BWP, responsive to detecting the reset event.
9. The wireless device according to claim 6-8, wherein the detected reset event comprises leaving RRC connected mode.
10. The wireless device of any of claims 6-8, wherein the detected reset event comprises any event selected from the following:
- cell reselection while the wireless device is waiting for a response to a Radio Resource Control (RRC) message sent to the wireless communication network;
 - expiry of a timer started upon the sending of an RRC connection establishment request;
 - receipt of an RRC connection reject message;
 - aborting of an RRC connection triggered by the wireless device;
 - initiation of an RRC connection re-establishment; and
 - failure of a handover.

11. A computer program comprising instructions that, when executed on at least one processing circuit, cause the at least one processing circuit to carry out the method according to any one of claims 1-5.

12. A carrier containing the computer program of claim 11, wherein the carrier is one of an electronic signal, optical signal, radio signal, or computer readable storage medium.