

CLAIMS

1. A method for wireless communications by a user equipment, UE (120), comprising:
 sending (902) information comprising an indication of a bandwidth part, BWP, capability of the UE (120) to a base station, BS (110), wherein:
 the indication of the BWP capability comprises an indication of a BWP capability for each of one or more component carriers; or
 the indication of the BWP capability comprises an indication of a BWP capability for each of one or more carrier aggregation, CA, configurations,
 wherein the indication of the BWP capability comprises an indication of a capability of the UE (120) to switch from at least a first one or more BWPs to at least a second one or more BWPs, and wherein the BWP capability includes a list of latencies of all BWP switch combinations between BWPs;
 receiving (904), in response to the indication, a configuration from the BS (110) indicating a set of BWPs available to use for communication; and
 performing (906) communications on at least one of the set of BWPs.
2. The method of claim 1, wherein the information further comprises an indication of a carrier aggregation, CA, capability of the UE (120).
3. The method of claim 1, wherein:
 performing (906) the communications comprises communicating on a first active BWP in a first cell;
 detecting at least one of a radio link failure in the first cell, a handover from the first cell or a change in the first cell; and
 triggering a release of the first active BWP in response to the detection.
4. The method of claim 1, further comprising:
 sending a random access preamble to another BS (110) on an uplink BWP for the other BS (110); and
 monitoring for a random access response from the other BS (110) on a downlink BWP for the other BS (110).
5. The method of claim 1, further comprising:

receiving a trigger to switch from an active downlink BWP of the set of BWPs to a default downlink BWP of the set of BWPs to monitor for at least one of a paging message or system information;
switching from the active downlink BWP to the default downlink BWP in response to the trigger; and
monitoring for at least one of the paging message or the system information on the default downlink BWP.

6. A method for wireless communications by a base station, BS (110), comprising:
receiving (1002), from a user equipment, UE (120), information comprising an indication of a bandwidth part, BWP, capability of the UE (120), wherein:
 - the indication of the BWP capability comprises an indication of a BWP capability for each of one or more component carriers; or
 - the indication of the BWP capability comprises an indication of a BWP capability for each of one of more carrier aggregation, CA, configurations,
wherein the indication of the BWP capability comprises an indication of a capability of the UE (120) to switch from at least a first one or more BWPs to at least a second one or more BWPs, and wherein the BWP capability includes a list of latencies of all BWP switch combinations between BWPs;
determining (1004), based on the indication, a configuration indicating a set of BWPs available for the UE (120) to use for communication; and
sending (1006) the configuration to the UE (120).
7. The method of claim 6, further comprising sending a request for one or more capabilities of the UE (120), wherein the information is received (1002) in response to the request.
8. The method of claim 6, wherein the configuration is sent (1006) via a radio resource control, RRC, reconfiguration message.
9. The method of claim 6, further comprising:
sending at least one of a paging message or system information to the UE (120) on an active downlink BWP of the set of BWPs or on a default downlink BWP of the set of BWPs.

10. The method of claim 6, further comprising:
 triggering the UE (120) to switch from monitoring from a first active downlink BWP to a second downlink BWP for at least one of a paging message or system information;
 configuring a retuning time for the switch from the first active downlink BWP to the second downlink BWP; and
 refraining from sending at least one of a paging message or system information during the retuning time.

11. A user equipment, UE (120), for wireless communication, comprising:
 means for sending information comprising an indication of a bandwidth part, BWP, capability of the UE (120) to a base station, BS (110), wherein:
 the indication of the BWP capability comprises an indication of a BWP capability for each of one or more component carriers; or
 the indication of the BWP capability comprises an indication of a BWP capability for each of one or more carrier aggregation, CA, configurations,
 wherein the indication of the BWP capability comprises an indication of a capability of the UE (120) to switch from at least a first one or more BWPs to at least a second one or more BWPs, and wherein the BWP capability includes a list of latencies of all BWP switch combinations between BWPs;
 means for receiving, in response to the indication, a configuration from the BS (110) indicating a set of BWPs available to use for communication; and
 means for performing communications on at least one of the set of BWPs.

12. A base station, BS (110), for wireless communication, comprising:
 means for receiving, from a user equipment, UE (120), information comprising an indication of a bandwidth part, BWP, capability of the UE (120), wherein:
 the indication of the BWP capability comprises an indication of a BWP capability for each of one or more component carriers; or
 the indication of the BWP capability comprises an indication of a BWP capability for each of one or more carrier aggregation, CA, configurations,
 wherein the indication of the BWP capability comprises an indication of a capability of the UE (120) to switch from at least a first one or more BWPs to at least a second

one or more BWPs, and wherein the BWP capability includes a list of latencies of all BWP switch combinations between BWPs;

means for determining, based on the indication, a configuration indicating a set of BWPs available for the UE (120) to use for communication; and

means for sending the configuration to the UE (120).

13. A computer-readable medium having computer executable code stored thereon for wireless communication, the computer executable code causing a computer of a user equipment, UE (120), to perform a method according to any of the claims 1 to 5, when executed, or causing a computer of a base station, BS (110), to perform a method according to any of the claims 6 to 10, when executed.