

CLAIMS

1. A user equipment, comprising:
circuitry operative to determine a Bandwidth Part (BWP) assigned for sidelink
5 transmission and reception in a carrier; and
a transceiver operative to perform the sidelink transmission and reception on the
determined BWP in the carrier,
wherein dynamic BWP switching is not supported for the sidelink transmission
and reception in the carrier.
- 10 2. The user equipment according to claim 1, wherein the BWP is used for the
sidelink transmission and reception only, and wherein another BWP is assigned for
transmission between the user equipment and a base station in the carrier.
- 15 3. The user equipment according to claim 2, wherein the BWP and the other
BWP are active in the carrier at the same time.
4. The user equipment according to claim 2, wherein the BWP and the other
BWP are associated with the same Downlink (DL) BWP in the carrier.
- 20 5. The user equipment according to claim 2, wherein a sidelink duration in a slot
in the BWP is changed with a change of a slot format in the other BWP in a case of
Time Division Duplexing (TDD).
- 25 6. The user equipment according to claim 2, wherein whether to transmit a first
channel in a BWP or receive a second channel on another BWP is decided based on
priorities of the first channel and the second channel.
- 30 7. The user equipment according to claim 2, wherein which one of a first channel
on a BWP and a second channel on another BWP is to be transmitted is decided based

on priorities of the first channel and the second channel when a Power Spectrum Density (PSD) difference between the first channel and the second channel is greater than a threshold.

5 8. The user equipment according to claim 1, wherein the BWP is configured by a BWP configuration signaling in which a bitmap indicating a time domain resource for the sidelink transmission and reception is included.

 9. A wireless communication method for a user equipment, comprising:
10 determining a Bandwidth Part (BWP) assigned for sidelink transmission and reception in a carrier; and
 performing the sidelink transmission and reception on the determined BWP in the carrier,
 wherein dynamic BWP switching is not supported for the sidelink transmission
15 and reception in the carrier.

 10. The wireless communication method according to claim 9, wherein the BWP is used for the sidelink transmission and reception only, and wherein another BWP is assigned for transmission between the user equipment and a base station in the carrier.
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 11. The wireless communication method according to claim 10, wherein the BWP and the other BWP are active in the carrier at the same time.

 12. The wireless communication method according to claim 10, wherein whether
25 to transmit a first channel in a BWP or receive a second channel on another BWP is decided based on priorities of the first channel and the second channel.

 13. The wireless communication method according to claim 10, wherein which
30 one of a first channel on a BWP and a second channel on another BWP is to be transmitted is decided based on priorities of the first channel and the second channel

when a Power Spectrum Density (PSD) difference between the first channel and the second channel is greater than a threshold.

14. The wireless communication method according to claim 9, wherein the BWP
5 is configured by a BWP configuration signaling in which a bitmap indicating a time domain resource for the sidelink transmission and reception is included.

15. A base station, comprising:
circuitry operative to generate a Bandwidth Part (BWP) configuration signaling in
10 which a bitmap indicating a time domain resource for sidelink transmission and reception is included;
a transmitter operative to transmit the BWP configuration signaling to a user equipment,
wherein a BWP assigned for the sidelink transmission and reception in a carrier
15 is determined by the user equipment based on the BWP configuration signaling, and wherein
dynamic BWP switching is not supported for the sidelink transmission and reception in the carrier.

- 20 16. A wireless communication method for a base station, comprising:
generating a Bandwidth Part (BWP) configuration signaling in which a bitmap indicating a time domain resource for sidelink transmission and reception is included;
transmitting the BWP configuration signaling to a user equipment,
wherein a BWP assigned for the sidelink transmission and reception in a carrier
25 is determined by the user equipment based on the BWP configuration signaling, and wherein
dynamic BWP switching is not supported for the sidelink transmission and reception in the carrier.