CLAIMS

1. A transceiving apparatus comprising:

a transceiver, which in operation, receives a first set of reference signal configuration relating to a first transmission and reception point (TRP) and a second set of reference signal configuration relating to a second TRP; and

circuitry, which in operation, performs at least one of beam failure detection (BFD) and candidate new beam detection (CBD) based on the first set of reference signal configuration and the second set of reference signal configuration. .

2. The transceiving apparatus in accordance with Claim 1, wherein the first set of reference signal configuration and the second set of reference signal configuration are indicated by a Medium Access Control Control Element (MAC CE) or an Radio Resource Control (RRC) signaling.

3. The transceiving apparatus in accordance with Claim 1 wherein the reference signal configuration is a configuration of channel state information (CSI) reference signal and/or a configuration of synchronization signal block (SSB).

4. The transceiving apparatus in accordance with Claim 1 wherein at least one of a first BFD and a first CBD is performed based on the first set of reference signal configuration, and at least one of a second BFD and a second CBD is performed based on the second set of reference signal configuration.

5. The transceiving apparatus in accordance with claim 1, wherein the transceiver, which in operation, reports to a base station contents including at least one result of the BFD and the CBD relating to the first set of reference signal configuration and at least one result of the BFD and the CBD relating to the second set of reference signal configuration.

6. The transceiving apparatus in accordance with claim 1, wherein whether both of the BFD based on the first set of reference signal configuration and the BFD based on the second set of reference signal configuration are performed is determined by a transmission configuration indication (TCI) state of downlink control information (DCI).

7. A communication method performed by a communication apparatus comprising:

receiving a first set of reference signal configuration relating to a first transmission and reception point (TRP) and a second set of reference signal configuration relating to a second TRP; and

transmitting a result of at least one of beam failure detection (BFD) and candidate new beam detection (CBD) based on the first set of reference signal configuration and the second set of reference signal configuration. .

8. The communication method in accordance with Claim 7, wherein the first set of reference signal configuration and the second set of reference signal configuration are indicated by a Medium Access Control Control Element (MAC CE) or an Radio Resource Control (RRC) signaling.

9. The communication method in accordance with Claim 7, wherein the reference signal configuration is a configuration of channel state information (CSI) reference signal and/or a configuration of synchronization signal block (SSB).

10. The communication method in accordance with Claim 7, further transmitting at least one result of a first BFD and a first CBD which is performed based on the first set of reference signal configuration, and at least one result of a second BFD and a second CBD which is performed based on the second set of reference signal configuration.

11. The communication method in accordance with claim 7, further transmitting contents including at least one result of the BFD and the CBD relating to the first set of reference signal configuration and at least one result of the BFD and the CBD relating to the second set of reference signal configuration.

12. The communication method in accordance with claim 7, further determining, by a transmission configuration indication (TCI) state of downlink control information (DCI), whether both of the BFD based on the first set of reference signal configuration and the BFD based on the second set of reference signal configuration are performed.

13. A base station comprising:

a transmitter, which in operation, transmits a first set of reference signal configuration relating to a first transmission and reception point (TRP) and a second set of reference signal configuration relating to a second TRP; and

a receiver, which in operation, receives a result of at least one of beam failure detection (BFD) and candidate new beam detection (CBD) based on the first set of reference signal configuration and the second set of reference signal configuration.

14. The base station in accordance with Claim 13, wherein the first set of reference signal configuration and the second set of reference signal configuration are indicated by a Medium Access Control Control Element (MAC CE) or an Radio Resource Control (RRC) signaling.

15. The base station in accordance with Claim 13, wherein the reference signal configuration is a configuration of channel state information (CSI) reference signal and/or a configuration of synchronization signal block (SSB).

16. The base station in accordance with Claim 13, wherein the receiver, which in operation, receives at least one result of a first BFD and a first CBD which is performed based on the

first set of reference signal configuration, and at least one result of a second BFD and a second CBD which is performed based on the second set of reference signal configuration.

17. The base station in accordance with claim 13, wherein the receiver, which in operation, receives contents including at least one result of the BFD and the CBD relating to the first set of reference signal configuration and at least one result of the BFD and the CBD relating to the second set of reference signal configuration.

18. The base station in accordance with claim 13, wherein the transmitter, which in operation, transmits downlink control information (DCI) including a transmission configuration indication (TCI) state, which indicates whether both of the BFD based on the first set of reference signal configuration and the BFD based on the second set of reference signal configuration are performed is determined.

19. A communication method performed by a base station comprising:

transmitting a first set of reference signal configuration relating to a first transmission and reception point (TRP) and a second set of reference signal configuration relating to a second TRP; and

receiving a result of at least one of beam failure detection (BFD) and candidate new beam detection (CBD) based on the first set of reference signal configuration and the second set of reference signal configuration.

20. The communication method in accordance with Claim 19, wherein the first set of reference signal configuration and the second set of reference signal configuration are indicated by a Medium Access Control Control Element (MAC CE) or an Radio Resource Control (RRC) signaling.

21. The communication method in accordance with Claim 19, wherein the reference signal configuration is a configuration of channel state information (CSI) reference signal and/or a configuration of synchronization signal block (SSB).

22. The communication method in accordance with Claim 19, further receiving at least one result of a first BFD and a first CBD which is performed based on the first set of reference signal configuration, and at least one result of a second BFD and a second CBD which is performed based on the second set of reference signal configuration.

23. The communication method in accordance with claim 19, further receiving contents including at least one result of the BFD and the CBD relating to the first set of reference signal configuration and at least one result of the BFD and the CBD relating to the second set of reference signal configuration.

24. The communication method in accordance with claim 19, further transmitting downlink control information (DCI) including a transmission configuration indication (TCI) state, which indicates whether both of the BFD based on the first set of reference signal configuration and the BFD based on the second set of reference signal configuration are performed is determined.

25. An integrated circuit comprising:

transceiver circuitry, which in operation, controls receiving a first set of reference signal configuration relating to a first transmission and reception point (TRP) and a second set of reference signal configuration relating to a second TRP; and

execution circuitry, which in operation, controls performing at least one of beam failure detection (BFD) and candidate new beam detection (CBD) based on the first set of reference signal configuration and the second set of reference signal configuration. .

26. An integrated circuit comprising:

transmission circuitry, which in operation, controls transmitting a first set of reference signal configuration relating to a first transmission and reception point (TRP) and a second set of reference signal configuration relating to a second TRP; and

reception circuitry, which in operation, controls receiving a result of at least one of beam failure detection (BFD) and candidate new beam detection (CBD) based on the first set of reference signal configuration and the second set of reference signal configuration.