

CLAIMS

1. A method comprising:
applying, by a wireless communication device, a new beam to a signal after 28 symbols from a last received symbol of a physical downlink control channel (PDCCH), according to a smallest subcarrier spacing of a response receiving cell and at least a first cell,
wherein the at least a first cell comprises all failed cells, wherein the all failed cells are associated with a same link.
2. The method of claim 1, wherein a cell of the at least a first cell is determined to be a failed cell upon the wireless communication device detecting one or more beam failures each of which is detected based on a beam failure detecting reference signal resource set (BFD-RS set) configured on the cell of the at least a first cell for a link.
3. The method of claim 2, wherein the link comprises at least one of:

one or more transmission reception points (TRPs);
beam failure detecting reference signal resource set (BFD-RS set); or
one or more identifiers (IDs) of the one or more TRPs.
4. The method of claim 1, wherein the new beam comprises a reference signal (RS) from a new candidate beam indication reference signal resource set (NBI-RS set) with corresponding link quality that is larger than or equal to a threshold.
5. The method of claim 1, wherein the signal comprises at least one of:
PDCCH monitoring, using a same antenna port quasi co-location parameters as the RS,
or physical uplink control channel (PUCCH) transmitting, using a same spatial domain filter as the RS.
6. A wireless communication device comprising:
at least one processor configured to:
apply a new beam to a signal after 28 symbols from a last received symbol of a physical

downlink control channel (PDCCH), according to a smallest subcarrier spacing of a response receiving cell and at least a first cell,

wherein the at least a first cell comprises all failed cells, wherein the all failed cells are associated with a same link.

7. The wireless communication device of claim 6, wherein a cell of the at least a first cell is determined to be a failed cell upon the wireless communication device detecting one or more beam failures each of which is detected based on a beam failure detecting reference signal resource set (BFD-RS set) configured on the cell of the at least a first cell for a link.

8. The wireless communication device of claim 7, wherein the link comprises at least one of:

one or more transmission reception points (TRPs);

beam failure detecting reference signal resource set (BFD-RS set); or

one or more identifiers (IDs) of the one or more TRPs.

9. The wireless communication device of claim 8, wherein the new beam comprises a reference signal (RS) from a new candidate beam indication reference signal resource set (NBI-RS set) with corresponding link quality that is larger than or equal to a threshold.

10. The wireless communication device of claim 8, wherein the signal comprises at least one of:

PDCCH monitoring, using a same antenna port quasi co-location parameters as the RS, or
physical uplink control channel (PUCCH) transmitting, using a same spatial domain filter as the RS.

11. A non-transitory computer readable medium storing instructions, which when executed by at least one processor, cause the at least one processor to:

apply a new beam to a signal after 28 symbols from a last received symbol of a physical downlink control channel (PDCCH), according to a smallest subcarrier spacing of a response receiving cell and at least a first cell,

wherein the at least a first cell comprises all failed cells, wherein the all failed cells are associated with a same link.

12. The non-transitory computer readable medium of claim 11, wherein a cell of the at least a first cell is determined to be a failed cell upon the wireless communication device detecting one or more beam failures each of which is detected based on a beam failure detecting reference signal resource set (BFD-RS set) configured on the cell of the at least a first cell for a link.

13. The non-transitory computer readable medium of claim 12, wherein the link comprises at least one of:

- one or more transmission reception points (TRPs);
- beam failure detecting reference signal resource set (BFD-RS set); or
- one or more identifiers (IDs) of the one or more TRPs.

14. The non-transitory computer readable medium of claim 11, wherein the new beam comprises a reference signal (RS) from a new candidate beam indication reference signal resource set (NBI-RS set) with corresponding link quality that is larger than or equal to a threshold.