

CLAIMS

1. A method of communication for a base station, comprising: determining that a serving cell for a user equipment (UE) is to supply timing for the UE to use to measure a channel state information-reference signal (CSI-RS); determining that a neighbor cell of the serving cell is to transmit the CSI-RS; determining a timing difference between the serving cell and the neighbor cell; as a result of determining that the neighbor cell of the serving cell is to transmit the CSI-RS, sending to the neighbor cell an indication of the timing difference, wherein the timing difference comprises a symbol timing difference; generating a CSI-RS configuration for the CSI-RS based on the determining that the serving cell for the UE is to supply the timing for the UE to use to measure the CSI-RS and the determining that the neighbor cell of the serving cell is to transmit the CSI-RS, wherein the CSI-RS configuration comprises an indication that the UE is to use the timing of the serving cell to measure the CSI-RS; and transmitting the CSI-RS configuration comprising the indication to the UE.
2. The method of claim 1, wherein the CSI-RS configuration comprises an indication of a sub-carrier spacing of the CSI-RS.
3. The method of claim 1, wherein the timing difference further comprises a slot timing difference, a mini-slot timing difference, a system frame number timing difference, or any combination thereof.
4. The method of claim 1, wherein the determination of the timing difference comprises receiving an indication of the timing difference from the UE.
5. The method of claim 4, further comprising: sending a request to measure the timing difference to the UE.
6. The method of claim 1, wherein the determination of the timing difference comprises: receiving a first indication of the timing difference from the UE and at least one second indication of the timing difference from at least one other UE; and generating an estimate of the timing difference based on the first indication of the timing difference and the at least one second indication of the timing difference.
7. A base station for communication comprising: a memory device; and a processing circuit coupled to the memory device and configured to: determine that a serving cell for a user equipment (UE) is to supply timing for the UE to use to measure a channel state information-reference signal (CSI-RS); determine that a neighbor cell of the serving cell is to transmit the CSI-RS; determine a timing difference between the serving cell and the neighbor cell; as a result of determining that the neighbor cell of the serving cell is to transmit the CSI-RS, send to the neighbor cell an indication of the timing difference, wherein the timing difference comprises a symbol timing difference; generate a CSI-RS configuration for the CSI-RS based on the determination that the serving cell for the UE is to supply the timing for the UE to use to measure the CSI-RS and the determination that the neighbor cell of the serving cell is to transmit the CSI-RS, wherein the CSI-RS configuration comprises an indication that the UE is to use the timing of the serving cell to measure the CSI-RS; and transmit the CSI-RS configuration comprising the indication to the UE.

8. A method of communication for a user equipment (UE), comprising: determining a timing difference between a serving cell of the UE and a neighbor cell of the serving cell; sending an indication of the timing difference to the serving cell, wherein the timing difference comprises a symbol timing difference; receiving a channel state information-reference signal (CSI-RS) configuration for a CSI-RS to be transmitted by the neighbor cell, wherein the CSI-RS configuration comprises an indication that the UE is to use timing of the serving cell to measure the CSI-RS; determining the timing of the serving cell; and using the timing of the serving cell to measure the CSI-RS transmitted by the neighbor cell.
9. The method of claim 8, further comprising: decoding the CSI-RS based on the CSI-RS configuration.
10. The method of claim 9, wherein the decoding comprises: determining a scrambling sequence based on the CSI-RS configuration; and decoding the CSI-RS based on the scrambling sequence.
11. The method of claim 8, wherein the CSI-RS configuration comprises an indication of a sub-carrier spacing of the CSI-RS.
12. The method of claim 8, further comprising: conducting a mobility operation associated with the neighbor cell based on the CSI-RS.
13. A user equipment, comprising: a memory device; and a processing circuit coupled to the memory device and configured to: determine a timing difference between a serving cell of the UE and a neighbor cell of the serving cell; send an indication of the timing difference to the serving cell, wherein the timing difference comprises a symbol timing difference; receive a channel state information-reference signal (CSI-RS) configuration for a CSI-RS to be transmitted by a neighbor cell of a serving cell for the UE, wherein the CSI-RS configuration comprises an indication that the UE is to use timing of the serving cell to measure the CSI-RS; determine the timing of the serving cell; and use the timing of the serving cell to measure the CSI-RS transmitted by the neighbor cell.
14. The method of claim 1, further comprising: sending CSI-RS timing information to the neighbor cell.