

CLAIMS

What is claimed is:

- 1 1. A method for wireless communication at a user equipment (UE),
2 comprising:
3 receiving, from a base station, a resource grant triggering a reference signal
4 configuration;
5 determining a timing offset relative to the resource grant based at least in part
6 on the reference signal configuration; and
7 transmitting a reference signal based at least in part on the timing offset.
- 1 2. The method of claim 1, further comprising:
2 identifying a transmission opportunity window comprising a plurality of
3 transmission opportunities based at least in part on the timing offset, wherein the reference
4 signal is transmitted during a transmission opportunity of the plurality of transmission
5 opportunities.
- 1 3. The method of claim 2, further comprising:
2 determining a duration of the transmission opportunity window or a
3 periodicity of the transmission opportunities based at least in part on the reference signal
4 configuration.
- 1 4. The method of claim 3, wherein the periodicity of the transmission
2 opportunities comprises a number of symbols, a number of slots, a number of bandwidth
3 parts, or a combination thereof.
- 1 5. The method of claim 1, further comprising:
2 receiving a channel state information reference signal (CSI-RS) based at least
3 in part on the reference signal configuration; and
4 identifying a precoder for the reference signal based at least in part on the CSI-
5 RS.
- 1 6. The method of claim 1, wherein the timing offset is based at least in
2 part on a processing capability of the UE, a delay associated with the reference signal
3 configuration, or a combination thereof.

- 1 7. The method of claim 6, further comprising:
2 indicating the processing capability of the UE to the base station.
- 1 8. The method of claim 1, further comprising:
2 receiving a data transmission based at least in part on the resource grant; and
3 modulating the reference signal based at least in part on the data transmission.
- 1 9. The method of claim 1, further comprising:
2 receiving the reference signal configuration in a control transmission that
3 precedes the resource grant.
- 1 10. The method of claim 1, wherein a duration of the timing offset is based
2 at least in part on a directionality of the resource grant, the directionality of the resource grant
3 comprising downlink or uplink.
- 1 11. The method of claim 1, wherein the reference signal configuration
2 comprises an indication of a use case for the reference signal.
- 1 12. The method of claim 11, wherein the indicated use case comprises an
2 uplink channel state information acquisition, or a downlink channel state information
3 acquisition, or an uplink non-codebook-based precoding, or an uplink codebook-based
4 precoding, or an uplink analog beamforming.
- 1 13. The method of claim 1, wherein the reference signal configuration
2 comprises a first timing offset for a first component carrier and a second timing offset for a
3 second component carrier.
- 1 14. The method of claim 13, wherein the first component carrier and the
2 second component carrier operate in different radio frequency spectrum bands.
- 1 15. The method of claim 1, wherein the reference signal comprises a
2 sounding reference signal.
- 1 16. A method for wireless communication at a base station, comprising:
2 transmitting, to a user equipment (UE), a resource grant indicating a reference
3 signal configuration;

4 determining a timing offset relative to the resource grant based at least in part
5 on the reference signal configuration; and
6 receiving a reference signal based at least in part on the timing offset.

1 17. The method of claim 16, further comprising:
2 identifying a transmission opportunity window comprising a plurality of
3 transmission opportunities based at least in part on the timing offset, wherein the reference
4 signal is received during a transmission opportunity of the plurality of transmission
5 opportunities.

1 18. The method of claim 16, further comprising:
2 transmitting a channel state information reference signal (CSI-RS) based at
3 least in part on the reference signal configuration.

1 19. The method of claim 16, wherein the timing offset is based at least in
2 part on a processing capability of the UE, a delay associated with the reference signal
3 configuration, or a combination thereof.

1 20. The method of claim 16, further comprising:
2 indicating the reference signal configuration in a control transmission that
3 precedes the resource grant.

1 21. The method of claim 16, wherein a duration of the timing offset is
2 based at least in part on a directionality of the resource grant, the directionality of the
3 resource grant comprising downlink or uplink.

1 22. The method of claim 16, wherein the reference signal configuration
2 comprises an indication of a use case for the reference signal.

1 23. The method of claim 16, wherein the reference signal configuration
2 comprises a first timing offset for a first component carrier and a second timing offset for a
3 second component carrier.

1 24. An apparatus for wireless communication, comprising:
2 means for receiving, from a base station, a resource grant triggering a
3 reference signal configuration;

4 means for determining a timing offset relative to the resource grant based at
5 least in part on the reference signal configuration; and
6 means for transmitting a reference signal based at least in part on the timing
7 offset.

1 25. The apparatus of claim 24, further comprising:
2 means for identifying a transmission opportunity window comprising a
3 plurality of transmission opportunities based at least in part on the timing offset, wherein the
4 reference signal is transmitted during a transmission opportunity of the plurality of
5 transmission opportunities.

1 26. The apparatus of claim 24, further comprising:
2 means for receiving a channel state information reference signal (CSI-RS)
3 based at least in part on the reference signal configuration; and
4 means for identifying a precoder for the reference signal based at least in part
5 on the CSI-RS.

1 27. The apparatus of claim 24, wherein the reference signal configuration
2 comprises an indication of a use case for the reference signal.

1 28. The apparatus of claim 24, wherein the reference signal configuration
2 comprises a first timing offset for a first component carrier and a second timing offset for a
3 second component carrier.

1 29. An apparatus for wireless communication, comprising:
2 means for transmitting, to a user equipment (UE), a resource grant indicating a
3 reference signal configuration;
4 means for determining a timing offset relative to the resource grant based at
5 least in part on the reference signal configuration; and
6 means for receiving a reference signal based at least in part on the timing
7 offset.

1 30. The apparatus of claim 29, further comprising:
2 means for identifying a transmission opportunity window comprising a
3 plurality of transmission opportunities based at least in part on the timing offset, wherein the

- 4 reference signal is received during a transmission opportunity of the plurality of transmission
- 5 opportunities.