~~CLAIMS~~

~~**What is claimed is:**~~

CLAIMS

1. A method for wireless communication at a user equipment (UE), comprising:

receiving, from a base station, a resource grant triggering ~~a~~an aperiodic sounding reference signal configuration;

determining a timing offset for transmission of an aperiodic sounding reference signal by the UE, wherein the timing offset is relative to the received resource grant and based at least in part on the aperiodic sounding reference signal configuration; and

transmitting ~~a~~the aperiodic sounding reference signal based at least in part on the determined timing offset.

2. The method of claim 1, further comprising:

identifying a transmission opportunity window comprising a plurality of transmission opportunities based at least in part on the timing offset, wherein the aperiodic sounding reference signal is transmitted during a transmission opportunity of the plurality of transmission opportunities.

3. The method of claim 2, further comprising:

determining a duration of the transmission opportunity window or a periodicity of the plurality of transmission opportunities based at least in part on the aperiodic sounding reference signal configuration.

4. The method of claim 3, wherein the periodicity of the plurality of transmission opportunities comprises a number of symbols, a number of slots, a number of bandwidth parts, or a combination thereof.

5. The method of claim 1, further comprising:

receiving a channel state information reference signal (CSI-RS) based at least in part on the aperiodic sounding reference signal configuration; and

identifying a precoder for the aperiodic sounding reference signal based at least in part on the CSI-RS.

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

7. The method of claim 6, further comprising:

indicating the processing capability of the UE to the base station.

8. The method of claim 1, further comprising:

receiving a data transmission based at least in part on the resource grant; and

modulating the aperiodic sounding reference signal based at least in part on the data transmission.

9. The method of claim 1, further comprising:

receiving the aperiodic sounding reference signal configuration in a control transmission that precedes the resource grant.

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

11. The method of claim 1, wherein the aperiodic sounding reference signal configuration comprises an indication of a use case for the aperiodic sounding reference signal.

12. The method of claim 11, wherein the indicated use case comprises an uplink channel state information acquisition, or a downlink channel state information acquisition, or an uplink non-codebook-based precoding, or an uplink codebook-based precoding, or an uplink analog beamforming.

13. The method of claim 1, wherein the aperiodic sounding reference signal

configuration comprises a first timing offset for a first component carrier and a second timing offset for a second component carrier.

14. The method of claim 13, wherein the first component carrier and the second component carrier operate in different radio frequency spectrum bands.

15. The method of claim 1, wherein the aperiodic sounding reference signal transmitted by the UE based at least in part on the determined timing offset comprises a sounding reference signal.

16. A method for wireless communication at a base station, comprising:

transmitting, to a user equipment (UE), a resource grant indicating ~~a~~an aperiodic sounding reference signal configuration;

determining a timing offset for transmission of an aperiodic sounding reference signal by the UE, wherein the timing offset is relative to the transmitted resource grant and based at least in part on the aperiodic sounding reference signal configuration; and

receiving ~~a~~the aperiodic sounding reference signal based at least in part on the determined timing offset.

17. The method of claim 16, further comprising:

identifying a transmission opportunity window comprising a plurality of transmission opportunities based at least in part on the timing offset, wherein the aperiodic sounding reference signal is received during a transmission opportunity of the plurality of transmission opportunities.

18. The method of claim 16, further comprising:

transmitting a channel state information reference signal (CSI-RS) based at least in part on the aperiodic sounding reference signal configuration.

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

20. The method of claim 16, further comprising:

indicating the aperiodic sounding reference signal configuration in a control transmission that precedes the resource grant.

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

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

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

24. An apparatus for wireless communication~~,~~ at a user equipment (UE), comprising:

~~means for receiving~~ a processor; memory coupled with the processor; and instructions stored in the memory and executable by the processor to cause the apparatus to: receive, from a base station, a resource grant triggering ~~a~~an aperiodic sounding reference signal configuration;

~~means for determining~~ determine a timing offset for transmission of an aperiodic sounding reference signal by the UE, wherein the timing offset is relative to the received resource grant and based at least in part on the aperiodic sounding reference signal configuration; and

~~means for transmitting a~~ transmit the aperiodic sounding reference signal based at least in part on the determined timing offset.

25. The apparatus of claim 24, wherein the instructions are further ~~comprising:~~

~~means for identifying~~executable by the processor to cause the apparatus to: identify a transmission opportunity window comprising a plurality of transmission

opportunities based at least in part on the timing offset, wherein the aperiodic sounding reference signal is transmitted during a transmission opportunity of the plurality of transmission opportunities.

26. The apparatus of claim 24, wherein the instructions are further ~~comprising:~~

~~means for receiving~~executable by the processor to cause the apparatus to: receive a channel state information reference signal (CSI-RS) based at least in part on the aperiodic sounding reference signal configuration; and

~~means for identifying~~ identify a precoder for the aperiodic sounding reference signal based at least in part on the CSI-RS.

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

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

29. An apparatus for wireless communication at a base station, comprising:

~~means for transmitting~~ a processor; memory coupled with the processor; and instructions stored in the memory and executable by the processor to cause the apparatus to: transmit, to a user equipment (UE), a resource grant indicating ~~a~~an aperiodic sounding reference signal configuration;

~~means for determining~~ determine a timing offset for transmission of an aperiodic sounding reference signal by the UE, wherein the timing offset is relative to the transmitted resource grant and based at least in part on the aperiodic sounding reference signal configuration; and

~~means for receiving a~~ receive the aperiodic sounding reference signal based at least in part on the determined timing offset.

30. The apparatus of claim 29, wherein the instructions are further ~~comprising:~~

~~means for identifying~~executable by the processor to cause the apparatus to: identify a transmission opportunity window comprising a plurality of transmission opportunities based at least in part on the timing offset, wherein the aperiodic sounding reference signal is received during a transmission opportunity of the plurality of transmission opportunities.