

CLAIMS

1. A method of wireless communication performed by a user equipment (UE), comprising:
 - identifying a first sounding reference signal (SRS) transmission that occurred most recently in time, relative to a second SRS transmission, prior to transmission of one or more physical uplink shared channel (PUSCH) communications,
 - wherein the one or more PUSCH communications correspond to a configured grant; and
 - transmitting the one or more PUSCH communications using one or more SRS resources associated with the first SRS transmission, wherein the SRS resources are uplink time-frequency resources;
 - wherein the first SRS transmission and the second SRS transmission are transmitted by the UE after receiving the configured grant.
2. The method of claim 1, wherein the configured grant comprises:
 - a Type 1 configured grant,
 - wherein the Type 1 configured grant comprises:
 - a radio resource control (RRC) configured and activated grant.
3. The method of claim 2, further comprising:
 - identifying the one or more SRS resources, associated with the first SRS transmission, based at least in part on an SRS resource indicator (SRI) field indicated by the RRC configured and activated grant; and
 - wherein transmitting the one or more PUSCH communications using the one or more SRS resources comprises:
 - transmitting the one or more PUSCH communications using the one or more SRS resources based at least in part on identifying the one or more SRS resources.
4. The method of claim 1, wherein identifying the first SRS transmission comprises:
 - identifying the first SRS transmission based at least in part on the first SRS transmission being a periodic SRS transmission.

5. The method of claim 1, wherein identifying the first SRS transmission comprises:

identifying the first SRS transmission based at least in part on the first SRS transmission being at least one of:

- a periodic SRS transmission, or
- a semi-persistent SRS transmission.

6. The method of claim 1, wherein identifying the first SRS transmission comprises:

identifying the first SRS transmission based at least in part on the first SRS transmission being at least one of:

- a periodic SRS transmission,
- an aperiodic SRS transmission, or
- a semi-persistent SRS transmission.

7. A method of wireless communication performed by a user equipment (UE), comprising:

identifying a first sounding reference signal (SRS) transmission that occurred prior to:

reception of an activation downlink control information (DCI), and
transmission of one or more first physical uplink shared channel
(PUSCH) communications,

wherein the one or more first PUSCH communications
correspond to a configured grant;

transmitting the one or more first PUSCH communications using one or more first SRS resources associated with the first SRS transmission, wherein the first SRS resources are uplink time-frequency resources;

identifying a second SRS transmission that occurred:

after reception of the activation DCI, and
most recently in time, relative to one or more third SRS transmissions,

prior to transmission of one or more second PUSCH communications,

wherein the one or more second PUSCH communications
correspond to the configured grant; and

transmitting the one or more second PUSCH communications using one or more second SRS resources associated with the second SRS transmission, wherein the second SRS resources are uplink time-frequency resources;

wherein the first SRS transmission and the second SRS transmission are transmitted by the UE after receiving the configured grant.

8. The method of claim 7, wherein the configured grant comprises:

a Type 2 configured grant,

wherein the Type 2 configured grant comprises:

a radio resource control (RRC) configured grant that is activated by the activation DCI.

9. The method of claim 7, further comprising:

identifying the one or more first SRS resources, associated with the first SRS transmission, based at least in part on an SRS resource indicator (SRI) field indicated by the activation DCI; and

wherein transmitting the one or more first PUSCH communications using the one or more first SRS resources comprises:

transmitting the one or more first PUSCH communications, using the one or more first SRS resources, based at least in part on identifying the one or more first SRS resources.

10. The method of claim 7, further comprising:

identifying the one or more second SRS resources, associated with the second SRS transmission, based at least in part on an SRS resource indicator (SRI) field indicated by the activation DCI; and

wherein transmitting the one or more second PUSCH communications using the one or more second SRS resources comprises:

transmitting the one or more second PUSCH communications, using the one or more second SRS resources, based at least in part on identifying the one or more second SRS resources.

11. The method of claim 7, wherein identifying the second SRS transmission comprises:

identifying the second SRS transmission based at least in part on the second SRS transmission being at least one of:

- a periodic SRS transmission, or
- a semi-persistent SRS transmission.

12. The method of claim 9, wherein identifying the first SRS transmission comprises:

identifying the first SRS transmission based at least in part on the first SRS transmission being at least one of:

- a periodic SRS transmission,
- an aperiodic SRS transmission, or
- a semi-persistent SRS transmission.

13. The method of claim 7, wherein identifying the second SRS transmission comprises:

identifying the second SRS transmission based at least in part on the second SRS transmission being at least one of:

- a periodic SRS transmission,
- an aperiodic SRS transmission, or
- a semi-persistent SRS transmission.

14. The method of claim 1, wherein:

identifying the first SRS transmission comprises identifying the transmission that occurred:

- most recently in time, relative to the second SRS transmission, prior to transmission of the one or more PUSCH communications, and
- at least a quantity of symbols prior to the transmission of the one or more PUSCH communications.

15. The method of claim 14, wherein the configured grant comprises:

- a Type 1 configured grant,
- wherein the Type 1 configured grant comprises:
 - a radio resource control (RRC) configured and activated grant.

16. The method of claim 14, wherein the configured grant comprises:
a Type 2 configured grant,
wherein the Type 2 configured grant comprises:
a radio resource control (RRC) configured grant that is activated
by an activation downlink control information (DCI).
17. The method of claim 14, further comprising:
identifying the one or more SRS resources based at least in part on an SRS
resource indicator (SRI) field; and
wherein transmitting the one or more PUSCH communications using the one or
more SRS resources comprises:
transmitting the one or more PUSCH communications using the one or
more SRS resources based at least in part on identifying the one or more SRS
resources.
18. The method of claim 14, wherein identifying the first SRS transmission
comprises:
identifying the first SRS transmission based at least in part on the first SRS
transmission being a periodic SRS transmission.
19. The method of claim 14, wherein identifying the first SRS transmission
comprises:
identifying the first SRS transmission based at least in part on the first SRS
transmission being at least one of:
a periodic SRS transmission, or
a semi-persistent SRS transmission.
20. The method of claim 14, wherein identifying the first SRS transmission
comprises:
identifying the first SRS transmission based at least in part on the first SRS
transmission being at least one of:
a periodic SRS transmission,
an aperiodic SRS transmission, or
a semi-persistent SRS transmission.

21. A user equipment (UE) for wireless communication, comprising:
a memory; and
one or more processors operatively coupled to the memory, the memory and the one or more processors configured to:
identify a first sounding reference signal (SRS) transmission that occurred most recently in time, relative to a second SRS transmission, prior to transmission of one or more physical uplink shared channel (PUSCH) communications,
wherein the one or more PUSCH communications correspond to a configured grant; and
transmit the one or more PUSCH communications using one or more SRS resources associated with the first SRS transmission, wherein the SRS resources are uplink time-frequency resources;
wherein the first SRS transmission and the second SRS transmission are transmitted by the UE after receiving the configured grant..
22. A non-transitory computer-readable medium storing one or more instructions for wireless communication, the one or more instructions comprising:
one or more instructions that, when executed by one or more processors of a user equipment (UE), cause the one or more processors to:
identify a first sounding reference signal (SRS) transmission that occurred most recently in time, relative to a second SRS transmission, prior to transmission of one or more physical uplink shared channel (PUSCH) communications,
wherein the one or more PUSCH communications correspond to a configured grant; and
transmit the one or more PUSCH communications using one or more SRS resources associated with the first SRS transmission, wherein the SRS resources are uplink time-frequency resources;
wherein the first SRS transmission and the second SRS transmission are transmitted by the UE after receiving the configured grant.

23. An apparatus for wireless communication, comprising:
means for identifying a first sounding reference signal (SRS) transmission that occurred most recently in time, relative to a second SRS transmission, prior to transmission of one or more physical uplink shared channel (PUSCH) communications, wherein the one or more PUSCH communications correspond to a configured grant; and
means for transmitting the one or more PUSCH communications using one or more SRS resources associated with the first SRS transmission, wherein the SRS resources are uplink time-frequency resources;
wherein the first SRS transmission and the second SRS transmission are transmitted by the UE after receiving the configured grant.

24. A user equipment (UE) for wireless communication, comprising:
a memory; and
one or more processors operatively coupled to the memory, the memory and the one or more processors configured to:
identify a first sounding reference signal (SRS) transmission that occurred prior to:
reception of an activation downlink control information (DCI),
and
transmission of one or more first physical uplink shared channel (PUSCH) communications,
wherein the one or more first PUSCH communications correspond to a configured grant;
transmit the one or more first PUSCH communications using one or more first SRS resources associated with the first SRS transmission, wherein first SRS resources are uplink time-frequency resources;
identify a second SRS transmission that occurred:
after reception of the activation DCI, and
most recently in time, relative to one or more third SRS transmissions, prior to transmission of one or more second PUSCH communications,
wherein the one or more second PUSCH communications correspond to the configured grant; and

transmit the one or more second PUSCH communications using one or more second SRS resources associated with the second SRS transmission, wherein the second SRS resources are uplink time-frequency resources;

wherein the first SRS transmission and the second SRS transmission are transmitted by the UE after receiving the configured grant.

25. A non-transitory computer-readable medium storing one or more instructions for wireless communication, the one or more instructions comprising:

one or more instructions that, when executed by one or more processors of a user equipment (UE), cause the one or more processors to:

identify a first sounding reference signal (SRS) transmission that occurred prior to:

reception of an activation downlink control information (DCI),

and

transmission of one or more first physical uplink shared channel (PUSCH) communications,

wherein the one or more first PUSCH communications correspond to a configured grant;

transmit the one or more first PUSCH communications using one or more first SRS resources associated with the first SRS transmission, wherein the first SRS resources are uplink time-frequency resources;

identify a second SRS transmission that occurred:

after reception of the activation DCI, and

most recently in time, relative to one or more third SRS transmissions, prior to transmission of one or more second PUSCH communications,

wherein the one or more second PUSCH communications correspond to the configured grant; and

transmit the one or more second PUSCH communications using one or more second SRS resources associated with the second SRS transmission, wherein the second SRS resources are uplink time-frequency resources;

wherein the first SRS transmission and the second SRS transmission are transmitted by the UE after receiving the configured grant.

26. An apparatus for wireless communication, comprising:
means for identifying a first sounding reference signal (SRS) transmission that occurred prior to:
reception of an activation downlink control information (DCI), and
transmission of one or more first physical uplink shared channel (PUSCH) communications,
wherein the one or more first PUSCH communications correspond to a configured grant;
means for transmitting the one or more first PUSCH communications using one or more first SRS resources associated with the first SRS transmission, wherein the first SRS resources are uplink time-frequency resources;
means for identifying a second SRS transmission that occurred:
after reception of the activation DCI, and
most recently in time, relative to one or more third SRS transmissions, prior to transmission of one or more second PUSCH communications,
wherein the one or more second PUSCH communications correspond to the configured grant; and
means for transmitting the one or more second PUSCH communications using one or more second SRS resources associated with the second SRS transmission, wherein the second SRS resources are uplink time-frequency resources;
wherein the first SRS transmission and the second SRS transmission are transmitted by the UE after receiving the configured grant.
27. A user equipment (UE) for wireless communication, comprising:
a memory; and
one or more processors operatively coupled to the memory, the memory and the one or more processors configured to:
identify a first sounding reference signal (SRS) transmission that occurred:
most recently in time, relative to a second SRS transmission, prior to transmission of one or more physical uplink shared channel (PUSCH) communications, and
at least a quantity of symbols prior to the transmission of the one or more PUSCH communications,

wherein the one or more PUSCH communications
correspond to a configured grant; and
transmit the one or more PUSCH communications using one or more
SRS resources associated with the first SRS transmission, wherein the SRS
resources are uplink time-frequency resources;
wherein the first SRS transmission and the second SRS transmission are
transmitted by the UE after receiving the configured grant.

28. A non-transitory computer-readable medium storing one or more instructions for
wireless communication, the one or more instructions comprising:

one or more instructions that, when executed by one or more processors of a
user equipment (UE), cause the one or more processors to:

identify a first sounding reference signal (SRS) transmission that
occurred:

most recently in time, relative to a second SRS transmission,
prior to transmission of one or more physical uplink shared channel
(PUSCH) communications, and

at least a quantity of symbols prior to the transmission of the one
or more PUSCH communications,

wherein the one or more PUSCH communications
correspond to a configured grant; and
transmit the one or more PUSCH communications using one or more
SRS resources associated with the first SRS transmission, wherein the SRS
resources are uplink time-frequency resources;
wherein the first SRS transmission and the second SRS transmission are
transmitted by the UE after receiving the configured grant.

29. An apparatus for wireless communication, comprising:

means for identifying a first sounding reference signal (SRS) transmission that
occurred:

most recently in time, relative to a second SRS transmission, prior to
transmission of one or more physical uplink shared channel (PUSCH)
communications, and

at least a quantity of symbols prior to the transmission of the one or more
PUSCH communications,

wherein the one or more PUSCH communications correspond to
a configured grant; and
means for transmitting the one or more PUSCH communications using one or
more SRS resources associated with the first SRS transmission, wherein the SRS
resources are uplink time-frequency resources;
wherein the first SRS transmission and the second SRS transmission are
transmitted by the UE after receiving the configured grant.