CLAIMS

1. A method of wireless communication operable at a scheduled entity, the method comprising:
assigning a priority to each of a plurality of uplink control information (UCI) components, wherein the priority is assigned according to a payload size respectively associated with each of the plurality of UCI components; and
transmitting the plurality of UCI components based on the priority respectively assigned to each of the plurality of UCI components, including transmitting a first UCI component and a second UCI component in a same slot comprising a long burst and a short burst, the first UCI component being assigned a higher priority than the second UCI component, and wherein more resource elements are assigned for transmitting the first UCI component than for transmitting the second UCI component.

2. The method of claim 1, wherein the plurality of UCI components comprise at least one of an acknowledgment (ACK) type, a scheduling request (SR) type, or a channel state information (CSI) type.

3. The method of claim 2, wherein:
the first UCI component is an ACK type or SR type; and
the second UCI component is a CSI type.

4. The method of claim 1, wherein the plurality of UCI components comprise a plurality of channel state information (CSI) types, and wherein the plurality of CSI types comprise at least one of a rank indicator (RI) type, a beam information type, a channel quality indicator (CQI) type, or a precoding matrix indicator (PMI) type.

5. The method of claim 4, wherein:
the first UCI component is an RI type or beam information type; and
the second UCI component is a CQI type or PMI type.

6. The method of claim 1, wherein a payload size of the first UCI component is smaller than a payload size of the second UCI component.

7. The method of claim 1, wherein the transmitting comprises transmitting the plurality of UCI components via multiple packets when a size of the plurality of UCI components exceeds a threshold size.

8. The method of claim 1, wherein the transmitting comprises reporting a higher number of component carriers when transmitting a higher priority UCI component relative to transmitting a lesser priority UCI component.

9. The method of claim 1, wherein the transmitting comprises transmitting the first UCI component with more power than the second UCI component.

10. The method of claim 9, wherein the transmitting further comprises configuring a transition from higher power to lower power to occur during a transmission of the second UCI component.

11. The method of claim 9, wherein the transmitting further comprises:
configuring a first part of a transition from higher power to lower power to occur during a transmission of the first UCI component; and
configuring a second part of the transition to occur during a transmission of the second UCI component.

12. The method of claim 11, wherein the transmitting further comprises:
determining whether resource elements allocated to transmit the plurality of UCI components are sufficient to transmit an entirety of the plurality of UCI components; and
if the resource elements allocated to transmit the plurality of UCI components are deemed insufficient, dropping at least a portion of the plurality of UCI components based on the priority respectively assigned to each of the plurality of UCI components.

13. The method of claim 1, wherein the transmitting comprises transmitting the first UCI component and the second UCI component in the long burst.

14. The method of claim 13, further comprising separately encoding the first UCI component and the second UCI component.

15. The method of claim 1, wherein the transmitting comprises transmitting the first UCI component and the second UCI component in the short burst.

16. The method of claim 1, wherein the transmitting comprises transmitting the first UCI component in the long burst and the second UCI component in the short burst.

17. A scheduled entity for wireless communication comprising:
a transceiver;
memory; and
a processor coupled to the transceiver and the memory, and wherein the processor and memory are configured to:
assign a priority to each of a plurality of uplink control information (UCI) components, wherein the priority is assigned according to a payload size respectively associated with each of the plurality of UCI components; and
initiate transmission, via the transceiver, of the plurality of UCI components based on the priority respectively assigned to each of the plurality of UCI components, including initiating transmission of a first UCI component and a second UCI component in a same slot comprising a long burst and a short burst, the first UCI component being assigned a higher priority than the second UCI component, and wherein more resource elements are assigned for use in transmitting the first UCI component than are assigned for use in transmitting the second UCI component.

18. The scheduled entity of claim 17, wherein the plurality of UCI components comprise at least one of an acknowledgment (ACK) type, a scheduling request (SR) type, or a channel state information (CSI) type.

19. The scheduled entity of claim 18, wherein:
the first UCI component is an ACK type or SR type; and
the second UCI component is a CSI type.

20. The scheduled entity of claim 17, wherein the plurality of UCI components include a plurality of channel state information (CSI) types comprising at least one of a rank indicator (RI) type, a beam information type, a channel quality indicator (CQI) type, or a precoding matrix indicator (PMI) type.

21. The scheduled entity of claim 20, wherein:
the first UCI component is an RI type or beam information type; and
the second UCI component is a CQI type or PMI type.

22. The scheduled entity of claim 17, wherein the processor and memory are further configured to prioritize the UCI components according to UCI payload size, and wherein a payload size of the first UCI component is smaller than a payload size of the second UCI component.

23. The scheduled entity of claim 17, wherein the processor and memory are further configured to determine a slot configuration in which the plurality of UCI components are transmitted via multiple packets when a size of the plurality of UCI components exceeds a threshold size.

24. The scheduled entity of claim 17, wherein the processor and memory are further configured to report a higher number of component carriers for transmission of a higher priority UCI component relative to transmission of a lesser priority UCI component.

25. The scheduled entity of claim 17, wherein the transceiver is configured to transmit the first UCI component with more power than the second UCI component.

26. The scheduled entity of claim 25, wherein the transceiver is configured to transition from a higher power to a lower power during transmission of the second UCI component.

27. The scheduled entity of claim 25, wherein the transceiver is configured to:
perform a first part of a transition from the higher power to the lower power during transmission of the first UCI component; and
perform a second part of the transition during transmission of the second UCI component.

28. The scheduled entity of claim 27, wherein the processor and memory are further configured to:
determine whether resource elements allocated to transmit the plurality of UCI components are sufficient to transmit an entirety of the plurality of UCI components; and
if the resource elements allocated to transmit the plurality of UCI components are deemed insufficient, drop at least a portion of the plurality of UCI components based on the priority respectively assigned to each of the plurality of UCI components.

29. The scheduled entity of claim 17, wherein the transceiver is configured to transmit the first UCI component and the second UCI component in the long burst.

30. The scheduled entity of claim 29, wherein the transceiver is further configured to separately encode the first UCI component and the second UCI component.

31. The scheduled entity of claim 17, wherein the transceiver is configured to transmit the first UCI component and the second UCI component in the short burst.

32. The scheduled entity of claim 17, wherein the transceiver is configured to transmit the first UCI component in the long burst and the second UCI component in the short burst.

33. An article of manufacture comprising a non-transitory computer readable medium storing computer executable code comprising instructions for causing a processor to:
assign a priority to each of a plurality of uplink control information (UCI) components, wherein the priority is assigned according to a payload size respectively associated with each of the plurality of UCI components; and

initiate transmission of the plurality of UCI components based on the priority respectively assigned to each of the plurality of UCI components, including transmission of a first UCI component and a second UCI component in a same slot comprising a long burst and a short burst, the first UCI component being assigned a higher priority than the second UCI component, and wherein more resource elements are assigned for transmitting the first UCI component than for transmitting the second UCI component.

34. A wireless communication device comprising:
means for assigning a priority to each of a plurality of uplink control information (UCI) components, wherein the priority is assigned according to a payload size respectively associated with each of the plurality of UCI components; and
means for transmitting the plurality of UCI components based on the priority respectively assigned to each of the plurality of UCI components, including means for transmitting a first UCI component and a second UCI component in a same slot comprising a long burst and a short burst, the first UCI component being assigned a higher priority than the second UCI component, and wherein more resource elements are assigned for transmitting the first UCI component than for transmitting the second UCI component.