CLAIMS

1. A method for wireless communication, comprising: identifying a number of space-time-streams for transmission of null data packet (NDP) information to a station (STA) in a set of tones, the NDP information comprising a long training field (LTF) section that comprises orthogonal frequency division multiplexing (OFDM) symbols, the NDP information corresponding to a superset of antennas comprising a first subset of antennas and a second subset of antennas; determining that the number of space-time-streams is greater than a threshold number of streams, wherein the threshold number of streams is based at least in part on a capability of the STA; transmitting, to the STA, a first subset of the NDP information corresponding to the first subset of antennas, wherein a number of the first subset of antennas is less than or equal to the threshold number of streams; transmitting, to the STA, a second subset of the NDP information corresponding to the second subset of antennas, wherein a number of the second subset of antennas is less than or equal to the threshold number of streams; determining that the number of space-time-streams is less than or equal to an additional threshold number of streams for an additional STA, wherein the additional threshold number of streams is based at least in part on a capability of the additional STA; and transmitting, to the additional STA, the NDP information corresponding to the superset of antennas comprising the first subset of antennas and the second subset of antennas, wherein a number of the superset of antennas is less than or equal to the additional threshold number of streams.

2. The method of claim 1, wherein the first subset of the NDP information corresponds to a first NDP and the second subset of the NDP information corresponds to a second NDP different from the first NDP.

3. The method of claim 1, wherein: the first subset of the NDP information and the second subset of the NDP information both correspond to a same NDP; the first subset of the NDP information is transmitted in a first subset of the set of tones; and the second subset of the NDP information is transmitted in a second subset of the set of tones.

4. The method of claim 1, wherein the capability of the STA comprises at least one of a total number of space-time-streams the STA can process for a single NDP and a number of LTFs the STA can process for the single NDP.

5. The method of claim 1, wherein both the first subset of antennas and the second subset of antennas comprise at least one shared antenna.

6. The method of claim 5, further comprising: mitigating a phase offset between the first subset of the NDP information and the second subset of the NDP information based at least in part on the at least one shared antenna serving as a phase reference.

7. The method of claim 2, further comprising: freezing a phase for transmission for the first NDP and the second NDP, wherein a phase offset between the first NDP and the second NDP is

mitigated based at least in part on freezing the phase for transmission.

8. An apparatus for wireless communication, comprising: a processor, memory in electronic communication with the processor; and instructions stored in the memory and executable by the processor to cause the apparatus to: identify a number of space-time-streams for transmission of null data packet (NDP) information to a station (STA) in a set of tones, the NDP information comprising a long training field (LTF) section that comprises orthogonal frequency division multiplexing (OFDM) symbols, the NDP information corresponding to a superset of antennas comprising a first subset of antennas and a second subset of antennas; determine that the number of space-time-streams is greater than a threshold number of streams, wherein the threshold number of streams is based at least in part on a capability of the STA; transmit, to the STA, a first subset of the NDP information corresponding to the first subset of antennas, wherein a number of the first subset of antennas is less than or equal to the threshold number of streams; transmit, to the STA, a second subset of the NDP information corresponding to the second subset of antennas, wherein a number of the second subset of antennas is less than or equal to the threshold number of streams; determine that the number of space-time-streams is less than or equal to an additional threshold number of streams for an additional STA, wherein the additional threshold number of streams is based at least in part on a capability of the additional STA; and transmit, to the additional STA, the NDP information corresponding to the superset of antennas comprising the first subset of antennas and the second subset of antennas, wherein a number of the superset of antennas is less than or equal to the additional threshold number of streams.

9. The apparatus of claim 8, wherein the first subset of the NDP information corresponds to a first NDP and the second subset of the NDP information corresponds to a second NDP different from the first NDP.

10. The apparatus of claim 8, wherein: the first subset of the NDP information and the second subset of the NDP information both correspond to a same NDP; the first subset of the NDP information is transmitted in a first subset of the set of tones; and the second subset of the NDP information is transmitted in a second subset of the set of tones.

11. The apparatus of claim 8, wherein the capability of the STA comprises at least one of a total number of space-time-streams the STA can process for a single NDP and a number of LTFs the STA can process for the single NDP.

12. The apparatus of claim 8, wherein both the first subset of antennas and the second subset of antennas comprise at least one shared antenna.

13. The apparatus of claim 12, wherein the instructions are further executable by the processor to cause the apparatus to: mitigate a phase offset between the first subset of the NDP information and the second subset of the NDP information based at least in part on the at least one shared antenna serving as a phase reference.

14. An apparatus for wireless communication, comprising: means for identifying a number of space-time-streams for transmission of null data packet (NDP) information to a station (STA) in a set of tones, the NDP information comprising a long training field (LTF) section that comprises orthogonal frequency division multiplexing (OFDM) symbols, the NDP information corresponding to a superset of antennas comprising a first subset of antennas and a second subset of antennas; means for determining that the number of space-time-streams is greater than a threshold number of streams, wherein the threshold number of streams is based at least in part on a capability of the STA; means for transmitting, to the STA, a first subset of the NDP information corresponding to the first subset of antennas, wherein a number of the first subset of antennas is less than or equal to the threshold number of streams; means for transmitting, to the STA, a second subset of the NDP information corresponding to the second subset of antennas, wherein a number of the second subset of antennas is less than or equal to the threshold number of streams; and means for determining that the number of space-time-streams is less than or equal to an additional threshold number of streams for an additional STA, wherein the additional threshold number of streams is based at least in part on a capability of the additional STA; and means for transmitting, to the additional STA, the NDP information corresponding to the superset of antennas comprising the first subset of antennas and the second subset of antennas, wherein a number of the superset of antennas is less than or equal to the additional threshold number of streams.

15. The apparatus of claim 14, wherein: the first subset of the NDP information corresponds to a first NDP and the second subset of the NDP information corresponds to a second NDP different from the first NDP.

16. The apparatus of claim 14, wherein: the first subset of the NDP information and the second subset of the NDP information both correspond to a same NDP; the first subset of the NDP information is transmitted in a first subset of the set of tones; and the second subset of the NDP information is transmitted in a second subset of the set of tones.

17. The apparatus of claim 14, wherein: the capability of the STA comprises at least one of a total number of space-time-streams the STA can process for a single NDP and a number of LTFs the STA can process for the single NDP.

18. The apparatus of claim 14, wherein: both the first subset of antennas and the second subset of antennas comprise at least one shared antenna.

19. The apparatus of claim 18, further comprising: means for mitigating a phase offset between the first subset of the NDP information and the second subset of the NDP information based at least in part on the at least one shared antenna serving as a phase reference.

20. A non-transitory computer-readable medium storing code for wireless communication, the code comprising instructions executable by a processor to: identify a number of space-time-streams for transmission of null data packet (NDP) information to a station (STA) in a set of

tones, the NDP information comprising a long training field (LTF) section that comprises orthogonal frequency division multiplexing (OFDM) symbols, the NDP information corresponding to a superset of antennas comprising a first subset of antennas and a second subset of antennas; determine that the number of space-time-streams is greater than a threshold number of streams, wherein the threshold number of streams is based at least in part on a capability of the STA; transmit, to the STA, a first subset of the NDP information corresponding to the first subset of antennas, wherein a number of the first subset of antennas is less than or equal to the threshold number of streams; transmit, to the STA, a second subset of the NDP information corresponding to the second subset of antennas, wherein a number of the second subset of antennas is less than or equal to the threshold number of streams; and determine that the number of space-time-streams is less than or equal to an additional threshold number of streams for an additional STA, wherein the additional threshold number of streams is based at least in part on a capability of the additional STA; and transmit, to the additional STA, the NDP information corresponding to a superset of antennas comprising the first subset of antennas and the second subset of antennas, wherein a number of the superset of antennas is less than or equal to the additional threshold number of streams.

21. The non-transitory computer-readable medium of claim 20, wherein: the first subset of the NDP information corresponds to a first NDP and the second subset of the NDP information corresponds to a second NDP different from the first NDP.

22. The non-transitory computer-readable medium of claim 20, wherein: the first subset of the NDP information and the second subset of the NDP information both correspond to a same NDP; the first subset of the NDP information is transmitted in a first subset of the set of tones; and the second subset of the NDP information is transmitted in a second subset of the set of tones.

23. The non-transitory computer-readable medium of claim 20, wherein: the capability of the STA comprises at least one of a total number of space-time-streams the STA can process for a single NDP and a number of LTFs the STA can process for the single NDP.

24. The non-transitory computer-readable medium of claim 20, wherein: both the first subset of antennas and the second subset of antennas comprise at least one shared antenna.

25. The non-transitory computer-readable medium of claim 24, wherein the instructions are further executable to: mitigate a phase offset between the first subset of the NDP information and the second subset of the NDP information based at least in part on the at least one shared antenna serving as a phase reference.