CLAIMS

1. A method of wireless communication at a child node, comprising:

receiving, from a central unit (CU), an indication including an allocation of resources;

determining a type of communication with a second node based on the allocation of resources;

communicating with the second node based on the determined type of communication and utilizing the allocated resources; and

coordinating with a parent node to utilize the allocated resources in a spatial division multiplex (SDM) operation between the child node and the parent node,

wherein coordinating with the parent node further comprises transmitting a feedback signal to the parent node prior to communicating with the second node, the feedback signal including one or more capabilities or conditions of SDM operation of the child node.

2. The method of claim 1, wherein the feedback signal includes a schedule for the parent node to communicate with the child node.

3. The method of claim 2, wherein the schedule includes instructions for the parent node to utilize a subset of the allocation of resources to communicate with the child node.

4. The method of claim 1, wherein the conditions of SDM operation of the child node are set by the CU or the child node.

5. The method of claim 1, wherein the feedback signal further includes a configuration of spatial resources for communicating with the child node.

6. The method of claim 5, wherein the configuration of spatial resources includes an indication of one or more beams or links for communicating with the child node.

7. The method of claim 1, further comprising:

receiving, from the parent node, a schedule including a configuration for communication between the parent node and the child node;

determining, by the child node, whether the configuration for communication provided in the schedule is supported by the child node; and

adjusting, by the child node, communication with the second node when the configuration for communication provided in the schedule is supported by the child node.

8. The method of claim 7, wherein coordinating with the parent node further comprises:

transmitting a feedback signal to the parent node in response to receipt of the schedule from the parent node, the feedback signal indicating whether the child node supports the configuration for communication provided in the schedule; and

receiving, from the parent node, an updated schedule in response to the feedback signal when the child node is configured to support the configuration provided in the schedule.

9. The method of claim 1, wherein the CU has labeled the allocation of resources for at least the child node as HARD, wherein the child node determines the type of communication with the second node based on the labeling of the allocation of resources.

10. The method of claim 1, further comprising:

receiving, from the parent node, an indication that the allocation of resources are available, wherein the child node utilizes the allocation of resources in accordance with the indication from the parent node.

11. The method of claim 1, wherein the feedback signal includes a schedule for the child node to communicate with the parent node.

12. The method of claim 1, wherein the feedback signal includes suggested conditions in the manner in which the parent node utilizes its allocation of resources.

13. The method of claim 10, wherein the indication, from the parent node, that the allocation of resources are available further indicates whether use of the allocation of resources by the child node is unconditional or subject to conditions.

14. The method of claim 1, wherein the feedback signal includes a schedule including a configuration for communication between the parent node and the child node.

15. The method of claim 10, wherein the CU has labeled the allocation of resources for the child node as SOFT, wherein the child node determines the type of communication with the second node based on the labeling of the allocation of resources.

16. An apparatus for wireless communication at a child node, comprising:

means for receiving, from a central unit (CU), an indication including an allocation of resources;

means for determining a type of communication with a second node based on the allocation of resources;

means for communicating with the second node based on the determined type of communication and utilizing the allocated resources; and

means for coordinating with a parent node to utilize the allocated resources in a spatial division multiplex (SDM) operation between the child node and the parent node;

wherein the means for coordinating with the parent node further comprises means for transmitting a feedback signal to the parent node prior to communicating with the second node, the feedback signal including one or more capabilities or conditions of SDM operation of the child node.

17. The apparatus of claim 16, wherein the feedback signal includes a schedule for the parent node to communicate with the child node.

18. The apparatus of claim 17, wherein the schedule includes instructions for the parent node to utilize a subset of the allocation of resources to communicate with the child node.

19. The apparatus of claim 16, wherein the conditions of SDM operation of the child node are set by the CU or the child node.

20. The apparatus of claim 16, wherein the feedback signal further includes a configuration of spatial resources for communicating with the child node.

21. The apparatus of claim 20, wherein the configuration of spatial resources includes an indication of one or more beams or links for communicating with the child node.

22. The apparatus of claim 16, further comprising:

means for receiving, from the parent node, a schedule including a configuration for communication between the parent node and the child node;

means for determining, by the child node, whether the configuration for communication provided in the schedule is supported by the child node; and

means for adjusting, by the child node, communication with the second node when the configuration for communication provided in the schedule is supported by the child node.

23. The apparatus of claim 22, wherein the means for coordinating with the parent node further comprises:

means for transmitting a feedback signal to the parent node in response to receipt of the schedule from the parent node, the feedback signal indicating whether the child node supports the configuration for communication provided in the schedule; and

means for receiving, from the parent node, an updated schedule in response to the feedback signal when the child node is configured to support the configuration provided in the schedule.

24. The apparatus of claim 16, wherein the CU has labeled the allocation of resources for at least the child node as HARD, wherein the child node determines the type of communication with the second node based on the labeling of the allocation of resources.

25. The apparatus of claim 16, further comprising:

means for receiving, from the parent node, an indication that the allocation of resources are available, wherein the child node utilizes the allocation of resources in accordance with the indication from the parent node.

26. The apparatus of claim 16, wherein the feedback signal includes a schedule for the child node to communicate with the parent node.

27. The apparatus of claim 16, wherein the feedback signal includes suggested conditions in the manner in which the parent node utilizes its allocation of resources.

28. The apparatus of claim 25, wherein the indication, from the parent node, that the allocation of resources are available further indicates whether use of the allocation of resources by the child node is unconditional or subject to conditions.

29. The apparatus of claim 16, wherein the feedback signal includes a schedule including a configuration for communication between the parent node and the child node.

30. The apparatus of claim 25, wherein the CU has labeled the allocation of resources for the child node as SOFT, wherein the child node determines the type of communication with the second node based on the labeling of the allocation of resources.

31. A non-transitory computer-readable medium storing computer executable code at a child node, the code when executed by a processor cause the processor to execute the method steps of any one of claims 1-15.