

CLAIMS

1. A method of wireless communication performed at a node, comprising: configuring an operation mode associated with releasing soft resources associated with an integrated access backhaul (IAB) network that supports implicit release of soft resources and explicit release of soft resources, wherein the node is a parent node, and wherein configuring the operation mode comprises configuring the operation mode based at least in part on a capability of an IAB node that is a child node of the node; and communicating with the IAB node based on the operation mode.
2. The method of claim 1, further comprising: providing information that identifies the operation mode to at least one of: a distributed unit (DU) component of the IAB node, a mobile terminated (MT) component of the IAB node, or a combination thereof.
3. The method of claim 2, wherein providing the information that identifies the operation mode comprises providing the information that identifies the operation mode via at least one of: an F1 application protocol (F1-AP) interface between the DU component and the node; radio resource control (RRC) signaling; a parent node of the node; the DU component; or a combination thereof.
4. The method of claim 1, wherein the node controls the soft resources associated with the IAB network, and wherein the method further comprises providing information that identifies the operation mode directly to a mobile terminated component of the IAB node.
5. The method of claim 1, wherein the operation mode is configured further based at least in part on at least one of: a topology of the IAB network, a traffic demand associated with the IAB network, resource utilization associated with the IAB network, or a combination thereof.
6. The method of claim 1, further comprising: receiving information associated with configuring the operation mode from one or more other wireless nodes included in the IAB network; and configuring the operation mode based at least in part on the information received from the one or more other wireless nodes included in the IAB network.
7. The method of claim 1, wherein the operation mode is a system-wide configured operation mode or a locally configured operation mode.
8. The method of claim 1, wherein the operation mode indicates that only the implicit release of soft resources is to be used in association with releasing the soft resources associated with the IAB network.

9. The method of claim 1, wherein the operation mode indicates that only the explicit release of soft resources is to be used in association with releasing the soft resources associated with the IAB network.

10. The method of claim 1, wherein the operation mode indicates that the explicit release of soft resources and the implicit release of soft resources are available to be used in association with releasing the soft resources associated with the IAB network.

11. The method of claim 10, further comprising providing prioritization information associated with the explicit release of soft resources and the implicit release of soft resources.

12. The method of claim 11, wherein the prioritization information indicates that the explicit release of soft resources has priority over the implicit release of soft resources.

13. The method of claim 11, wherein the prioritization information indicates that the implicit release of soft resources has priority over the explicit release of soft resources.

14. The method of claim 1, wherein the soft resources associated with the IAB network are a first set of soft resources that differ from a second set of soft resources associated with the IAB network, and wherein the operation mode is a first operation mode, associated with the first set of soft resources, that differs from a second operation mode associated with the second set of soft resources.

15. The method of claim 1, wherein the explicit release of soft resources is via downlink control information (DCI).

16. The method of claim 1, wherein the capability indicates whether the IAB node supports the operation mode.

17. A node for wireless communication, comprising: a memory; and one or more processors coupled to the memory, the one or more processors configured to: configure an operation mode associated with release of soft resources associated with an integrated access backhaul (IAB) network that supports implicit release of soft resources and explicit release of soft resources, wherein the node is a parent node, and wherein, when configuring the operation mode, the one or more processors are configured to configure the operation mode based at least in part on a capability of an IAB node that is a child node of the node; and communicate with the IAB node based on the operation mode.

18. The node of claim 17, wherein the one or more processors are further configured to: provide information that identifies the operation mode to at least one of: a distributed unit (DU) component of the IAB node, a mobile terminated (MT) component of the IAB node, or a combination thereof.

19. The node of claim 18, wherein the one or more processors, to provide the information that identifies the operation mode, are configured to provide the information that identifies the operation mode via at least one of: an F1 application protocol (F1-AP) interface between the DU component and the node; radio resource control (RRC) signaling; a parent node of the node; the DU component; or a combination thereof.

20. The node of claim 17, wherein the node controls the soft resources associated with the IAB network, and wherein the one or more processors are further configured to provide information that identifies the operation mode directly to a mobile terminated component of the IAB node.

21. The node of claim 17, wherein the operation mode is configured further based at least in part on at least one of: a topology of the IAB network, a traffic demand associated with the IAB network, resource utilization associated with the IAB network, or a combination thereof.

22. The node of claim 17, wherein the one or more processors are further configured to: receive information associated with configuring the operation mode from one or more other wireless nodes included in the IAB network; and configure the operation mode based at least in part on the information received from the one or more other wireless nodes included in the IAB network.

23. The node of claim 17, wherein the operation mode is a system-wide configured operation mode or a locally configured operation mode.

24. The node of claim 17, wherein the operation mode indicates that only the implicit release of soft resources is to be used in association with the soft resources associated with the IAB network.

25. The node of claim 17, wherein the operation mode indicates that only the explicit release of soft resources is to be used in association with the soft resources associated with the IAB network.

26. The node of claim 17, wherein the operation mode indicates that the explicit release of soft resources and the implicit release of soft resources are available to be used in association with the soft resources associated with the IAB network.

27. The node of claim 17, wherein the one or more processors are further configured to provide prioritization information associated with the explicit release of soft resources and the implicit release of soft resources.
28. The node of claim 27, wherein the prioritization information indicates that the explicit release of soft resources has priority over the implicit release of soft resources.
29. The node of claim 27, wherein the prioritization information indicates that the implicit release of soft resources has priority over the explicit release of soft resources.
30. The node of claim 17, wherein the soft resources associated with the IAB network are a first set of soft resources that differ from a second set of soft resources associated with the IAB network, and wherein the operation mode is a first operation mode, associated with the first set of soft resources, that differs from a second operation mode associated with the second set of soft resources.
31. The node of claim 17, wherein the explicit release of soft resources is via downlink control information (DCI).
32. The node of claim 17, wherein the capability indicates whether the IAB node supports the operation mode.
33. A non-transitory computer-readable medium storing a set of instructions for wireless communication, the set of instructions comprising: one or more instructions that, when executed by one or more processors of a node, cause the node to: configure an operation mode associated with release of soft resources associated with an integrated access backhaul (IAB) network that supports implicit release of soft resources and explicit release of soft resources, wherein the node is a parent node, and wherein the one or more instructions that cause the node to configure the operation mode comprise one or more instructions that cause the node to configure the operation mode based at least in part on a capability of an IAB node that is a child node of the node; and communicate with the IAB node based on the operation mode.
34. An apparatus for wireless communication, comprising: means for configuring an operation mode associated with release of soft resources associated with an integrated access backhaul (IAB) network that supports implicit release of soft resources and explicit release of soft resources, wherein the apparatus is a parent apparatus, and wherein the means for configuring the operation mode comprise means for configuring the operation mode based at least in part on a capability of an IAB node that is a child of the apparatus; and means for communicating with the IAB node based on the operation mode.

35. A node for wireless communication, comprising: a memory; and one or more processors configured to: configure an operation mode associated with release of one or more soft resources associated with an integrated access backhaul (IAB) network, wherein the IAB network supports explicit release of the one or more soft resources, and wherein the operation mode is configured based at least in part on a capability of an IAB node that is a child node of the node; and communicate with the IAB node based on the operation mode.

36. The node of claim 35, wherein the one or more soft resources associated with the IAB network are a first set of soft resources that differs from a second set of soft resources associated with the IAB network, and wherein the operation mode is a first operation mode, associated with the first set of soft resources, that differs from a second operation mode associated with the second set of soft resources.

37. The node of claim 35, wherein the IAB network further supports an implicit determination of availability of a soft resource.

38. The node of claim 35, wherein the explicit release of the one or more soft resources is via downlink control information (DCI).

39. The node of claim 35, wherein the capability indicates whether the IAB node supports the operation mode.

40. A method of wireless communication performed at a node, comprising: configuring an operation mode associated with releasing one or more soft resources associated with an integrated access backhaul (IAB) network, the IAB network supporting explicit release of the one or more soft resources, and wherein the operation mode is configured based at least in part on a capability of an IAB node that is a child node of the node; and communicating with the IAB node based on the operation mode.

41. The method of claim 40, wherein the IAB network further supports an implicit determination of availability of a soft resource.

42. The method of claim 40, wherein the explicit release of the one or more soft resources is via downlink control information (DCI).

43. The method of claim 40, wherein the capability indicates whether the IAB node supports the operation mode.

44. A non-transitory computer-readable medium storing a set of instructions for wireless communication, the set of instructions comprising: one or more instructions that, when executed by one or more processors of a node, cause the node to: configure an operation mode associated with releasing one or more soft resources associated with an integrated access backhaul (IAB) network, the IAB network supporting explicit release of the one or more soft resources, and wherein the operation mode is configured based at least in part on a capability of an IAB node that is a child node of the node; and communicate with the IAB node based on the operation mode.

45. The non-transitory computer-readable medium of claim 44, wherein the IAB network further supports an implicit determination of availability of a soft resource.

46. The non-transitory computer-readable medium of claim 44, wherein the explicit release of the one or more soft resources is via downlink control information (DCI).

47. The non-transitory computer-readable medium of claim 44, wherein the capability indicates whether the IAB node supports the operation mode.

48. An apparatus for wireless communication, comprising: means for configuring an operation mode associated with releasing one or more soft resources associated with an integrated access backhaul (IAB) network, the IAB network supporting explicit release of the one or more soft resources, and wherein the operation mode is configured based at least in part on a capability of an IAB node that is a child node of the apparatus; and means for communicating with the IAB node based on the operation mode.

49. The apparatus of claim 48, wherein the IAB network further supports an implicit determination of availability of a soft resource.

50. The apparatus of claim 48, wherein the explicit release of the one or more soft resources is via downlink control information (DCI).

51. The apparatus of claim 48, wherein the capability indicates whether the IAB node supports the operation mode.