

CLAIMS

What is claimed is:

- 1 1. A method for wireless communication, comprising:
2 communicating an indication of a plurality of encoding symbol identifiers via
3 a control channel;
4 receiving a plurality of packets associated with a rateless code via a data
5 channel, wherein each of the plurality of packets comprises an encoding symbol; and
6 decoding the plurality of encoding symbols based at least in part on the
7 plurality of encoding symbol identifiers.
- 1 2. The method of claim 1, wherein communicating the indication of the
2 plurality of encoding symbol identifiers comprises:
3 communicating control signaling via the control channel and comprising the
4 indication of the plurality of encoding symbol identifiers.
- 1 3. The method of claim 2, wherein the control signaling comprises a
2 downlink control information message comprising the indication of the plurality of encoding
3 symbol identifiers, a radio resource control message comprising the indication of the plurality
4 of encoding symbol identifiers, or a medium access control (MAC) control element message
5 comprising the indication of the plurality of encoding symbol identifiers.
- 1 4. The method of claim 1, wherein communicating the indication of the
2 plurality of encoding symbol identifiers comprises communicating scheduling information
3 via the control channel, and wherein the plurality of packets are received based at least in part
4 on the scheduling information, the method further comprising:
5 generating the plurality of encoding symbol identifiers based at least in part on
6 the scheduling information.
- 1 5. The method of claim 4, wherein the scheduling information comprises
2 a position of one or more resource blocks, a system frame number, a slot number, or a symbol
3 number, and wherein generating the plurality of encoding symbol identifiers is based at least
4 in part on the position of the one or more resource blocks, the system frame number, the slot
5 number, the symbol number, or a combination thereof.

- 1 6. The method of claim 1, further comprising:
2 communicating control signaling comprising an indication of a source block
3 number.
- 1 7. The method of claim 6, wherein decoding the plurality of encoding
2 symbols based at least in part on communicating the indication of the source block number.
- 1 8. The method of claim 6, wherein the control signaling comprises a
2 downlink control information message comprising the indication of the source block number,
3 a radio resource control message comprising the indication of the source block number, or a
4 medium access control (MAC) control element message comprising the indication of the
5 source block number.
- 1 9. The method of claim 6, wherein each packet of the plurality of packets
2 excludes any indication of the source block number based at least in part on communicating
3 the indication of the source block number.
- 1 10. The method of claim 6, wherein communicating the control signaling
2 comprising the indication of the source block number comprises:
3 receiving, at a user equipment, the indication of the source block number.
- 1 11. The method of claim 6, wherein communicating the control signaling
2 comprising the indication of the source block number comprises:
3 transmitting, from a base station, the indication of the source block number.
- 1 12. The method of claim 1, wherein receiving the plurality of packets
2 comprises receiving a first transport block, wherein the first transport block comprises a
3 plurality of first code blocks comprising the plurality of packets, and wherein the plurality of
4 packets comprises a plurality of first packets associated with a first redundancy version, the
5 method further comprising:
6 receiving a second transport block, wherein the second transport block
7 comprises a plurality of second code blocks comprising a plurality of second packets
8 associated with a second redundancy version; and
9 transmitting an indication of a number of one or more of the plurality of
10 second code blocks based at least in part on failing to successfully decode the one or more of

11 the plurality of second code blocks, wherein the plurality of first packets are received based at
12 least in part on transmitting the indication of the number.

1 13. The method of claim 12, wherein each of the plurality of second code
2 blocks is associated with a respective one of the plurality of first code blocks, the method
3 further comprising:
4 identifying a failure to decode a code block of the plurality of first code blocks
5 that is unassociated with any of the plurality of second code blocks; and
6 performing a soft combination procedure using the plurality of first code
7 blocks and the plurality of second code blocks based at least in part on identifying the failure
8 and the generated plurality of encoding symbols, wherein decoding the plurality of first code
9 blocks is based at least in part on performing the soft combination procedure.

1 14. The method of claim 12, wherein each of the plurality of second code
2 blocks is associated with a respective one of the plurality of first code blocks, the method
3 further comprising:
4 decoding a code block of the plurality of first code blocks that is unassociated
5 with any of the plurality of second code blocks, wherein decoding the plurality of first
6 packets is based at least in part on decoding the code block unassociated with any code
7 blocks of the plurality of second code blocks.

1 15. The method of claim 1, further comprising:
2 transmitting an acknowledgement message based at least in part on decoding
3 the plurality of encoding symbols.

1 16. The method of claim 1, wherein each packet of the plurality of packets
2 excludes any indication of the plurality of encoding symbol identifiers based at least in part
3 on communicating the indication of the plurality of encoding symbol identifiers.

1 17. The method of claim 1, wherein:
2 decoding the plurality of encoding symbols comprises performing the
3 decoding according to a raptor code on the plurality of encoding symbols to generate a
4 plurality of source symbols.

1 18. The method of claim 1, wherein communicating the indication of the
2 plurality of encoding symbol identifiers comprises:
3 receiving, at a user equipment, the indication of the plurality of encoding
4 symbol identifiers.

1 19. The method of claim 1, wherein communicating the indication of the
2 plurality of encoding symbol identifiers comprises:
3 transmitting, from a base station, the indication of the plurality of encoding
4 symbol identifiers.

1 20. An method for wireless communication, comprising:
2 communicating an indication of a plurality of encoding symbol identifiers via
3 a control channel; and
4 transmitting a plurality of packets associated with the plurality of encoding
5 symbol identifiers via a data channel, wherein each of the plurality of packets comprises an
6 encoding symbol of a rateless code.

1 21. The method of claim 20, wherein communicating the indication of the
2 plurality of encoding symbol identifiers comprises:
3 communicating control signaling via the control channel and comprising the
4 indication of the plurality of encoding symbol identifiers.

1 22. The method of claim 21, wherein the control signaling comprises a
2 downlink control information message comprising the indication of the plurality of encoding
3 symbol identifiers, a radio resource control message comprising the indication of the plurality
4 of encoding symbol identifiers, or a medium access control (MAC) control element message
5 comprising the indication of the plurality of encoding symbol identifiers.

1 23. The method of claim 20, wherein communicating the indication of the
2 plurality of encoding symbol identifiers comprises communicating scheduling information
3 via the control channel, the method further comprising:
4 generating the plurality of encoding symbol identifiers based at least in part on
5 the scheduling information, wherein communicating the plurality of packets is based at least
6 in part on the plurality of encoding symbol identifiers.

1 24. The method of claim 23, wherein the scheduling information
2 comprises a position of one or more resource blocks, a system frame number, a slot number,
3 or a symbol number, and wherein generating the plurality of encoding symbol identifiers is
4 based at least in part on the position of the one or more resource blocks, the system frame
5 number, the slot number, the symbol number, or a combination thereof.

1 25. The method of claim 20, further comprising:
2 communicating control signaling comprising an indication of a source block
3 number.

1 26. The method of claim 25, wherein the control signaling comprises a
2 downlink control information message comprising the indication of the source block number,
3 a radio resource control message comprising the indication of the source block number, or a
4 medium access control (MAC) control element message comprising the indication of the
5 source block number.

1 27. The method of claim 25, wherein each packet of the plurality of
2 packets excludes any indication of the source block number based at least in part on receiving
3 the indication of the source block number.

1 28. The method of claim 25, wherein communicating the control signaling
2 comprising the indication of the source block number comprises:
3 receiving, at a user equipment, the indication of the source block number.

1 29. The method of claim 25, wherein communicating the control signaling
2 comprising the indication of the source block number comprises:
3 transmitting, from a base station, the indication of the source block number.

1 30. The method of claim 20, wherein transmitting the plurality of packets
2 comprises transmitting a first transport block, wherein the first transport block comprises a
3 plurality of first code blocks comprising the plurality of packets, and wherein the plurality of
4 packets comprises a plurality of first packets associated with a first redundancy version, the
5 method further comprising:

6 transmitting a second transport block, wherein the second transport block
7 comprises a plurality of second code blocks comprising a plurality of second packets
8 associated with a second redundancy version; and
9 receiving an indication of a number of one or more of the plurality of second
10 code blocks, wherein the indication of the number indicates a failure to successfully decode
11 the one or more of the plurality of second code blocks, wherein the plurality of first packets
12 are transmitted based at least in part on receiving the indication of the number.

1 31. The method of claim 20, further comprising:
2 receiving an acknowledgement message based at least in part on transmitting
3 the plurality of packets.

1 32. The method of claim 20, wherein each packet of the plurality of
2 packets excludes any indication of the plurality of encoding symbol identifiers based at least
3 in part on communicating the indication of the plurality of encoding symbol identifiers.

1 33. The method of claim 20, further comprising:
2 encoding a plurality of source symbols using a raptor code to generate the
3 plurality of encoding symbols.

1 34. The method of claim 20, wherein communicating the indication of the
2 plurality of encoding symbol identifiers comprises:
3 receiving, at a user equipment, the indication of the plurality of encoding
4 symbol identifiers.

1 35. The method of claim 20, wherein communicating the indication of the
2 plurality of encoding symbol identifiers comprises:
3 transmitting, from a base station, the indication of the plurality of encoding
4 symbol identifiers.

1 36. An apparatus for wireless communication, comprising:
2 a processor,
3 memory coupled with the processor, and
4 instructions stored in the memory and executable by the processor to cause the
5 apparatus to:

6 communicate an indication of a plurality of encoding symbol
7 identifiers via a control channel;
8 receive a plurality of packets associated with a rateless code via a data
9 channel, wherein each of the plurality of packets comprises an encoding symbol; and
10 decode the plurality of encoding symbols based at least in part on the
11 plurality of encoding symbol identifiers.

1 37. The apparatus of claim 36, wherein the instructions to communicate
2 the indication of the plurality of encoding symbol identifiers are executable by the processor
3 to cause the apparatus to:

4 communicate control signaling via the control channel and comprising the
5 indication of the plurality of encoding symbol identifiers.

1 38. The apparatus of claim 37, wherein the control signaling comprises a
2 downlink control information message comprising the indication of the plurality of encoding
3 symbol identifiers, a radio resource control message comprising the indication of the plurality
4 of encoding symbol identifiers, or a medium access control (MAC) control element message
5 comprising the indication of the plurality of encoding symbol identifiers.

1 39. The apparatus of claim 36, wherein the instructions to communicate
2 the indication of the plurality of encoding symbol identifiers are executable by the processor
3 to cause the apparatus to communicate scheduling information via the control channel, and
4 wherein the instructions are further executable by the processor to cause the apparatus to:
5 generate the plurality of encoding symbol identifiers based at least in part on
6 the scheduling information.

1 40. The apparatus of claim 39, wherein the scheduling information
2 comprises a position of one or more resource blocks, a system frame number, a slot number,
3 or a symbol number, and wherein generating the plurality of encoding symbol identifiers is
4 based at least in part on the position of the one or more resource blocks, the system frame
5 number, the slot number, the symbol number, or a combination thereof.

1 41. The apparatus of claim 36, wherein the instructions are further
2 executable by the processor to cause the apparatus to:

3 communicate control signaling comprising an indication of a source block
4 number.

1 42. The apparatus of claim 41, wherein decoding the plurality of encoding
2 symbols based at least in part on communicating the indication of the source block number.

1 43. The apparatus of claim 41, wherein the control signaling comprises a
2 downlink control information message comprising the indication of the source block number,
3 a radio resource control message comprising the indication of the source block number, or a
4 medium access control (MAC) control element message comprising the indication of the
5 source block number.

1 44. The apparatus of claim 41, wherein each packet of the plurality of
2 packets excludes any indication of the source block number based at least in part on
3 communicating the indication of the source block number.

1 45. The apparatus of claim 41, wherein the instructions to communicate
2 the control signaling comprising the indication of the source block number are executable by
3 the processor to cause the apparatus to:
4 receive, at a user equipment, the indication of the source block number.

1 46. The apparatus of claim 41, wherein the instructions to communicate
2 the control signaling comprising the indication of the source block number are executable by
3 the processor to cause the apparatus to:
4 transmit, from a base station, the indication of the source block number.

1 47. The apparatus of claim 36, wherein the instructions to receive the
2 plurality of packets are executable by the processor to cause the apparatus to receive a first
3 transport block, wherein the first transport block comprises a plurality of first code blocks
4 including the plurality of packets, and where the plurality of packets includes a plurality of
5 first packets associated with a first redundancy version, and wherein the instructions are
6 further executable by the processor to cause the apparatus to:
7 receive a second transport block, wherein the second transport block
8 comprises a plurality of second code blocks comprising a plurality of second packets
9 associated with a second redundancy version; and

10 transmit an indication of a number of one or more of the plurality of second
11 code blocks based at least in part on failing to successfully decode the one or more of the
12 plurality of second code blocks, wherein the plurality of first packets are received based at
13 least in part on transmitting the indication of the number.

1 48. The apparatus of claim 47, wherein each of the plurality of second
2 code blocks is associated with a respective one of the plurality of first code blocks, and
3 wherein the instructions are further executable by the processor to cause the apparatus to:
4 identify a failure to decode a code block of the plurality of first code blocks
5 that is unassociated with any of the plurality of second code blocks; and
6 perform a soft combination procedure using the plurality of first code blocks
7 and the plurality of second code blocks based at least in part on identifying the failure and the
8 generated plurality of encoding symbols, wherein decoding the plurality of first code blocks
9 is based at least in part on performing the soft combination procedure.

1 49. The apparatus of claim 47, wherein each of the plurality of second
2 code blocks is associated with a respective one of the plurality of first code blocks, and
3 wherein the instructions are further executable by the processor to cause the apparatus to:
4 decode a code block of the plurality of first code blocks that is unassociated
5 with any of the plurality of second code blocks, wherein decoding the plurality of first
6 packets is based at least in part on decoding the code block unassociated with any code
7 blocks of the plurality of second code blocks.

1 50. The apparatus of claim 36, wherein the instructions are further
2 executable by the processor to cause the apparatus to:
3 transmit an acknowledgement message based at least in part on decoding the
4 plurality of encoding symbols.

1 51. The apparatus of claim 36, wherein each packet of the plurality of
2 packets excludes any indication of the plurality of encoding symbol identifiers based at least
3 in part on communicating the indication of the plurality of encoding symbol identifiers.

1 52. The apparatus of claim 36, wherein the instructions to decode the
2 plurality of encoding symbols are executable by the processor to cause the apparatus to

3 perform the decoding according to a raptor code on the plurality of encoding symbols to
4 generate a plurality of source symbols.

1 53. The apparatus of claim 36, wherein the instructions to communicate
2 the indication of the plurality of encoding symbol identifiers are executable by the processor
3 to cause the apparatus to:
4 receive, at a user equipment, the indication of the plurality of encoding symbol
5 identifiers.

1 54. The apparatus of claim 36, wherein the instructions to communicate
2 the indication of the plurality of encoding symbol identifiers are executable by the processor
3 to cause the apparatus to:
4 transmit, from a base station, the indication of the plurality of encoding
5 symbol identifiers.

1 55. An apparatus for wireless communication, comprising:
2 a processor,
3 memory coupled with the processor, and
4 instructions stored in the memory and executable by the processor to cause the
5 apparatus to:
6 communicate an indication of a plurality of encoding symbol
7 identifiers via a control channel; and
8 transmit a plurality of packets associated with the plurality of encoding
9 symbol identifiers via a data channel, wherein each of the plurality of packets
10 comprises an encoding symbol of a rateless code.

1 56. The apparatus of claim 55, wherein the instructions to communicate
2 the indication of the plurality of encoding symbol identifiers are executable by the processor
3 to cause the apparatus to:
4 communicate control signaling via the control channel and comprising the
5 indication of the plurality of encoding symbol identifiers.

1 57. The apparatus of claim 56, wherein the control signaling comprises a
2 downlink control information message comprising the indication of the plurality of encoding
3 symbol identifiers, a radio resource control message comprising the indication of the plurality

4 of encoding symbol identifiers, or a medium access control (MAC) control element message
5 comprising the indication of the plurality of encoding symbol identifiers.

1 58. The apparatus of claim 55, wherein the instructions to communicate
2 the indication of the plurality of encoding symbol identifiers are executable by the processor
3 to cause the apparatus to communicate scheduling information via the control channel, and
4 wherein the instructions are further executable by the processor to cause the apparatus to:
5 generate the plurality of encoding symbol identifiers based at least in part on
6 the scheduling information, wherein communicating the plurality of packets is based at least
7 in part on the plurality of encoding symbol identifiers.

1 59. The apparatus of claim 58, wherein the scheduling information
2 comprises a position of one or more resource blocks, a system frame number, a slot number,
3 or a symbol number, and wherein generating the plurality of encoding symbol identifiers is
4 based at least in part on the position of the one or more resource blocks, the system frame
5 number, the slot number, the symbol number, or a combination thereof.

1 60. The apparatus of claim 55, wherein the instructions are further
2 executable by the processor to cause the apparatus to:
3 communicate control signaling comprising an indication of a source block
4 number.

1 61. The apparatus of claim 60, wherein the control signaling comprises a
2 downlink control information message comprising the indication of the source block number,
3 a radio resource control message comprising the indication of the source block number, or a
4 medium access control (MAC) control element message comprising the indication of the
5 source block number.

1 62. The apparatus of claim 60, wherein each packet of the plurality of
2 packets excludes any indication of the source block number based at least in part on receiving
3 the indication of the source block number.

1 63. The apparatus of claim 60, wherein the instructions to communicate
2 the control signaling comprising the indication of the source block number are executable by
3 the processor to cause the apparatus to:

4 receive, at a user equipment, the indication of the source block number.

1 64. The apparatus of claim 60, wherein the instructions to communicate
2 the control signaling comprising the indication of the source block number are executable by
3 the processor to cause the apparatus to:

4 transmit, from a base station, the indication of the source block number.

1 65. The apparatus of claim 55, wherein the instructions to transmit the
2 plurality of packets are executable by the processor to cause the apparatus to transmit a first
3 transport block, wherein the first transport block comprises a plurality of first code blocks
4 comprising the plurality of packets, and wherein the plurality of packets comprises a plurality
5 of first packets associated with a first redundancy version, and wherein the instructions are
6 further executable by the processor to cause the apparatus to:

7 transmit a second transport block, wherein the second transport block
8 comprises a plurality of second code blocks comprising a plurality of second packets
9 associated with a second redundancy version; and

10 receive an indication of a number of one or more of the plurality of second
11 code blocks, wherein the indication of the number indicates a failure to successfully decode
12 the one or more of the plurality of second code blocks, wherein the plurality of first packets
13 are transmitted based at least in part on receiving the indication of the number.

1 66. The apparatus of claim 55, wherein the instructions are further
2 executable by the processor to cause the apparatus to:

3 receive an acknowledgement message based at least in part on transmitting the
4 plurality of packets.

1 67. The apparatus of claim 55, wherein each packet of the plurality of
2 packets excludes any indication of the plurality of encoding symbol identifiers based at least
3 in part on communicating the indication of the plurality of encoding symbol identifiers.

1 68. The apparatus of claim 55, wherein the instructions are further
2 executable by the processor to cause the apparatus to:

3 encode a plurality of source symbols using a raptor code to generate the
4 plurality of encoding symbols.

1 69. The apparatus of claim 55, wherein the instructions to communicate
2 the indication of the plurality of encoding symbol identifiers are executable by the processor
3 to cause the apparatus to:
4 receive, at a user equipment, the indication of the plurality of encoding symbol
5 identifiers.

1 70. The apparatus of claim 55, wherein the instructions to communicate
2 the indication of the plurality of encoding symbol identifiers are executable by the processor
3 to cause the apparatus to:
4 transmit, from a base station, the indication of the plurality of encoding
5 symbol identifiers.

1 71. An apparatus for wireless communication, comprising:
2 means for communicating an indication of a plurality of encoding symbol
3 identifiers via a control channel;
4 means for receiving a plurality of packets associated with a rateless code via a
5 data channel, wherein each of the plurality of packets comprises an encoding symbol; and
6 means for decoding the plurality of encoding symbols based at least in part on
7 the plurality of encoding symbol identifiers.

1 72. The apparatus of claim 71, wherein the means for communicating the
2 indication of the plurality of encoding symbol identifiers comprises:
3 means for communicating control signaling via the control channel and
4 comprising the indication of the plurality of encoding symbol identifiers.

1 73. The apparatus of claim 72, wherein the control signaling comprises a
2 downlink control information message comprising the indication of the plurality of encoding
3 symbol identifiers, a radio resource control message comprising the indication of the plurality
4 of encoding symbol identifiers, or a medium access control (MAC) control element message
5 comprising the indication of the plurality of encoding symbol identifiers.

1 74. The apparatus of claim 71, wherein communicating the indication of
2 the plurality of encoding symbol identifiers comprises communicating scheduling
3 information via the control channel, the apparatus further comprising:

4 means for generating the plurality of encoding symbol identifiers based at
5 least in part on the scheduling information.

1 75. The apparatus of claim 74, wherein the scheduling information
2 comprises a position of one or more resource blocks, a system frame number, a slot number,
3 or a symbol number, and wherein generating the plurality of encoding symbol identifiers is
4 based at least in part on the position of the one or more resource blocks, the system frame
5 number, the slot number, the symbol number, or a combination thereof.

1 76. The apparatus of claim 71, further comprising:
2 means for communicating control signaling comprising an indication of a
3 source block number.

1 77. The apparatus of claim 76, wherein decoding the plurality of encoding
2 symbols based at least in part on communicating the indication of the source block number.

1 78. The apparatus of claim 76, wherein the control signaling comprises a
2 downlink control information message comprising the indication of the source block number,
3 a radio resource control message comprising the indication of the source block number, or a
4 medium access control (MAC) control element message comprising the indication of the
5 source block number.

1 79. The apparatus of claim 76, wherein each packet of the plurality of
2 packets excludes any indication of the source block number based at least in part on
3 communicating the indication of the source block number.

1 80. The apparatus of claim 76, wherein the means for communicating the
2 control signaling comprising the indication of the source block number comprises:
3 means for receiving, at a user equipment, the indication of the source block
4 number.

1 81. The apparatus of claim 76, wherein the means for communicating the
2 control signaling comprising the indication of the source block number comprises:
3 means for transmitting, from a base station, the indication of the source block
4 number.

1 82. The apparatus of claim 71, wherein receiving the plurality of packets
2 comprises receiving a first transport block, wherein the first transport block comprises a
3 plurality of first code blocks comprising the plurality of packets, and wherein the plurality of
4 packets comprises a plurality of first packets associated with a first redundancy version, the
5 apparatus further comprising:

6 means for receiving a second transport block, wherein the second transport
7 block comprises a plurality of second code blocks comprising a plurality of second packets
8 associated with a second redundancy version; and

9 means for transmitting an indication of a number of one or more of the
10 plurality of second code blocks based at least in part on failing to successfully decode the one
11 or more of the plurality of second code blocks, wherein the plurality of first packets are
12 received based at least in part on transmitting the indication of the number.

1 83. The apparatus of claim 82, wherein each of the plurality of second
2 code blocks is associated with a respective one of the plurality of first code blocks, the
3 apparatus further comprising:

4 means for identifying a failure to decode a code block of the plurality of first
5 code blocks that is unassociated with any of the plurality of second code blocks; and

6 means for performing a soft combination procedure using the plurality of first
7 code blocks and the plurality of second code blocks based at least in part on identifying the
8 failure and the generated plurality of encoding symbols, wherein decoding the plurality of
9 first code blocks is based at least in part on performing the soft combination procedure.

1 84. The apparatus of claim 82, wherein each of the plurality of second
2 code blocks is associated with a respective one of the plurality of first code blocks, the
3 method further comprising:

4 decoding a code block of the plurality of first code blocks that is unassociated
5 with any of the plurality of second code blocks, wherein decoding the plurality of first
6 packets is based at least in part on decoding the code block unassociated with any code
7 blocks of the plurality of second code blocks.

1 85. The apparatus of claim 71, further comprising:

2 means for transmitting an acknowledgement message based at least in part on
3 decoding the plurality of encoding symbols.

1 86. The apparatus of claim 71, wherein each packet of the plurality of
2 packets excludes any indication of the plurality of encoding symbol identifiers based at least
3 in part on communicating the indication of the plurality of encoding symbol identifiers.

1 87. The apparatus of claim 71, wherein the means for decoding the
2 plurality of encoding symbols comprises means for performing the decoding according to a
3 raptor code on the plurality of encoding symbols to generate a plurality of source symbols.

1 88. The apparatus of claim 71, wherein the means for communicating the
2 indication of the plurality of encoding symbol identifiers comprises:
3 means for receiving, at a user equipment, the indication of the plurality of
4 encoding symbol identifiers.

1 89. The apparatus of claim 71, wherein the means for communicating the
2 indication of the plurality of encoding symbol identifiers comprises:
3 means for transmitting, from a base station, the indication of the plurality of
4 encoding symbol identifiers.

1 90. An apparatus for wireless communication, comprising:
2 means for communicating an indication of a plurality of encoding symbol
3 identifiers via a control channel; and
4 means for transmitting a plurality of packets associated with the plurality of
5 encoding symbol identifiers via a data channel, wherein each of the plurality of packets
6 comprises an encoding symbol of a rateless code.

1 91. The apparatus of claim 90, wherein the means for communicating the
2 indication of the plurality of encoding symbol identifiers comprises:
3 means for communicating control signaling via the control channel and
4 comprising the indication of the plurality of encoding symbol identifiers.

1 92. The apparatus of claim 91, wherein the control signaling comprises a
2 downlink control information message comprising the indication of the plurality of encoding
3 symbol identifiers, a radio resource control message comprising the indication of the plurality

4 of encoding symbol identifiers, or a medium access control (MAC) control element message
5 comprising the indication of the plurality of encoding symbol identifiers.

1 93. The apparatus of claim 90, wherein communicating the indication of
2 the plurality of encoding symbol identifiers comprises communicating scheduling
3 information via the control channel, the apparatus further comprising:
4 means for generating the plurality of encoding symbol identifiers based at
5 least in part on the scheduling information, wherein communicating the plurality of packets is
6 based at least in part on the plurality of encoding symbol identifiers.

1 94. The apparatus of claim 93, wherein the scheduling information
2 comprises a position of one or more resource blocks, a system frame number, a slot number,
3 or a symbol number, and wherein generating the plurality of encoding symbol identifiers is
4 based at least in part on the position of the one or more resource blocks, the system frame
5 number, the slot number, the symbol number, or a combination thereof.

1 95. The apparatus of claim 90, further comprising:
2 means for communicating control signaling comprising an indication of a
3 source block number.

1 96. The apparatus of claim 95, wherein the control signaling comprises a
2 downlink control information message comprising the indication of the source block number,
3 a radio resource control message comprising the indication of the source block number, or a
4 medium access control (MAC) control element message comprising the indication of the
5 source block number.

1 97. The apparatus of claim 95, wherein each packet of the plurality of
2 packets excludes any indication of the source block number based at least in part on receiving
3 the indication of the source block number.

1 98. The apparatus of claim 95, wherein the means for communicating the
2 control signaling comprising the indication of the source block number comprises:
3 means for receiving, at a user equipment, the indication of the source block
4 number.

1 99. The apparatus of claim 95, wherein the means for communicating the
2 control signaling comprising the indication of the source block number comprises:
3 means for transmitting, from a base station, the indication of the source block
4 number.

1 100. The apparatus of claim 90, wherein transmitting the plurality of
2 packets comprises transmitting a first transport block, wherein the first transport block
3 comprises a plurality of first code blocks comprising the plurality of packets, and wherein the
4 plurality of packets comprises a plurality of first packets associated with a first redundancy
5 version, the apparatus further comprising:
6 means for transmitting a second transport block, wherein the second transport
7 block comprises a plurality of second code blocks comprising a plurality of second packets
8 associated with a second redundancy version; and
9 means for receiving an indication of a number of one or more of the plurality
10 of second code blocks, wherein the indication of the number indicates a failure to
11 successfully decode the one or more of the plurality of second code blocks, wherein the
12 plurality of first packets are transmitted based at least in part on receiving the indication of
13 the number.

1 101. The apparatus of claim 90, further comprising:
2 means for receiving an acknowledgement message based at least in part on
3 transmitting the plurality of packets.

1 102. The apparatus of claim 90, wherein each packet of the plurality of
2 packets excludes any indication of the plurality of encoding symbol identifiers based at least
3 in part on communicating the indication of the plurality of encoding symbol identifiers.

1 103. The apparatus of claim 90, further comprising:
2 means for encoding a plurality of source symbols using a raptor code to
3 generate the plurality of encoding symbols.

1 104. The apparatus of claim 90, wherein the means for communicating the
2 indication of the plurality of encoding symbol identifiers comprises:

3 means for receiving, at a user equipment, the indication of the plurality of
4 encoding symbol identifiers.

1 105. The apparatus of claim 90, wherein the means for communicating the
2 indication of the plurality of encoding symbol identifiers comprises:

3 means for transmitting, from a base station, the indication of the plurality of
4 encoding symbol identifiers.

1 106. A non-transitory computer-readable medium storing code for wireless
2 communication, the code comprising instructions executable by a processor to:

3 communicate an indication of a plurality of encoding symbol identifiers via a
4 control channel;

5 receive a plurality of packets associated with a rateless code via a data
6 channel, wherein each of the plurality of packets comprises an encoding symbol; and

7 decode the plurality of encoding symbols based at least in part on the plurality
8 of encoding symbol identifiers.

1 107. The non-transitory computer-readable medium of claim 106, wherein
2 the instructions to communicate the indication of the plurality of encoding symbol identifiers
3 are executable by the processor to:

4 communicate control signaling via the control channel and comprising the
5 indication of the plurality of encoding symbol identifiers.

1 108. The non-transitory computer-readable medium of claim 107, wherein
2 the control signaling comprises a downlink control information message comprising the
3 indication of the plurality of encoding symbol identifiers, a radio resource control message
4 comprising the indication of the plurality of encoding symbol identifiers, or a medium access
5 control (MAC) control element message comprising the indication of the plurality of
6 encoding symbol identifiers.

1 109. The non-transitory computer-readable medium of claim 106, wherein
2 the instructions to communicate the indication of the plurality of encoding symbol identifiers
3 are executable by the processor to communicate scheduling information via the control
4 channel, and wherein the instructions are executable by the processor to:

5 generate the plurality of encoding symbol identifiers based at least in part on
6 the scheduling information.

1 110. The non-transitory computer-readable medium of claim 109, wherein
2 the scheduling information comprises a position of one or more resource blocks, a system
3 frame number, a slot number, or a symbol number, and wherein generating the plurality of
4 encoding symbol identifiers is based at least in part on the position of the one or more
5 resource blocks, the system frame number, the slot number, the symbol number, or a
6 combination thereof.

1 111. The non-transitory computer-readable medium of claim 106, wherein
2 the instructions are further executable by the processor to:
3 communicate control signaling comprising an indication of a source block
4 number.

1 112. The non-transitory computer-readable medium of claim 111, wherein
2 decoding the plurality of encoding symbols based at least in part on communicating the
3 indication of the source block number.

1 113. The non-transitory computer-readable medium of claim 111, wherein
2 the control signaling comprises a downlink control information message comprising the
3 indication of the source block number, a radio resource control message comprising the
4 indication of the source block number, or a medium access control (MAC) control element
5 message comprising the indication of the source block number.

1 114. The non-transitory computer-readable medium of claim 111, wherein
2 each packet of the plurality of packets excludes any indication of the source block number
3 based at least in part on communicating the indication of the source block number.

1 115. The non-transitory computer-readable medium of claim 111, wherein
2 the instructions to communicate the control signaling comprising the indication of the source
3 block number are executable by the processor to:
4 receive, at a user equipment, the indication of the source block number.

1 116. The non-transitory computer-readable medium of claim 111, wherein
2 the instructions to communicate the control signaling comprising the indication of the source
3 block number are executable by the processor to:

4 transmit, from a base station, the indication of the source block number.

1 117. The non-transitory computer-readable medium of claim 106, wherein
2 the instructions to receive the plurality of packets are executable by the processor to receive a
3 first transport block, wherein the first transport block comprises a plurality of first code
4 blocks including the plurality of packets, and where the plurality of packets includes a
5 plurality of first packets associated with a first redundancy version, and wherein the
6 instructions are executable by the processor to:

7 receive a second transport block, wherein the second transport block
8 comprises a plurality of second code blocks comprising a plurality of second packets
9 associated with a second redundancy version; and

10 transmit an indication of a number of one or more of the plurality of second
11 code blocks based at least in part on failing to successfully decode the one or more of the
12 plurality of second code blocks, wherein the plurality of first packets are received based at
13 least in part on transmitting the indication of the number.

1 118. The non-transitory computer-readable medium of claim 117, wherein
2 each of the plurality of second code blocks is associated with a respective one of the plurality
3 of first code blocks, and wherein the instructions are executable by the processor to:

4 identify a failure to decode a code block of the plurality of first code blocks
5 that is unassociated with any of the plurality of second code blocks; and

6 perform a soft combination procedure using the plurality of first code blocks
7 and the plurality of second code blocks based at least in part on identifying the failure and the
8 generated plurality of encoding symbols, wherein decoding the plurality of first code blocks
9 is based at least in part on performing the soft combination procedure.

1 119. The non-transitory computer-readable medium of claim 117, wherein
2 each of the plurality of second code blocks is associated with a respective one of the plurality
3 of first code blocks, and wherein the instructions are further executable by the processor to:

4 decode a code block of the plurality of first code blocks that is unassociated
5 with any of the plurality of second code blocks, wherein decoding the plurality of first
6 packets is based at least in part on decoding the code block unassociated with any code
7 blocks of the plurality of second code blocks.

1 120. The non-transitory computer-readable medium of claim 106, wherein
2 the instructions are further executable by the processor to:
3 transmit an acknowledgement message based at least in part on decoding the
4 plurality of encoding symbols.

1 121. The non-transitory computer-readable medium of claim 106, wherein
2 each packet of the plurality of packets excludes any indication of the plurality of encoding
3 symbol identifiers based at least in part on communicating the indication of the plurality of
4 encoding symbol identifiers.

1 122. The non-transitory computer-readable medium of claim 106, wherein
2 the instructions to decode the plurality of encoding symbols are executable by the processor
3 to perform the decoding according to a raptor code on the plurality of encoding symbols to
4 generate a plurality of source symbols.

1 123. The non-transitory computer-readable medium of claim 106, wherein
2 the instructions to communicate the indication of the plurality of encoding symbol identifiers
3 are executable by the processor to:
4 receive, at a user equipment, the indication of the plurality of encoding symbol
5 identifiers.

1 124. The non-transitory computer-readable medium of claim 106, wherein
2 the instructions to communicate the indication of the plurality of encoding symbol identifiers
3 are executable by the processor to:
4 transmit, from a base station, the indication of the plurality of encoding
5 symbol identifiers.

1 125. A non-transitory computer-readable medium storing code for wireless
2 communication, the code comprising instructions executable by a processor to:

3 communicate an indication of a plurality of encoding symbol identifiers via a
4 control channel; and
5 transmit a plurality of packets associated with the plurality of encoding
6 symbol identifiers via a data channel, wherein each of the plurality of packets comprises an
7 encoding symbol of a rateless code.

1 126. The non-transitory computer-readable medium of claim 125, wherein
2 the instructions to communicate the indication of the plurality of encoding symbol identifiers
3 are executable by the processor to:
4 communicate control signaling via the control channel and comprising the
5 indication of the plurality of encoding symbol identifiers.

1 127. The non-transitory computer-readable medium of claim 126, wherein
2 the control signaling comprises a downlink control information message comprising the
3 indication of the plurality of encoding symbol identifiers, a radio resource control message
4 comprising the indication of the plurality of encoding symbol identifiers, or a medium access
5 control (MAC) control element message comprising the indication of the plurality of
6 encoding symbol identifiers.

1 128. The non-transitory computer-readable medium of claim 125, wherein
2 the instructions to communicate the indication of the plurality of encoding symbol identifiers
3 comprises are executable by the processor to communicate scheduling information via the
4 control channel, and wherein the instructions are executable by the processor to:
5 generate the plurality of encoding symbol identifiers based at least in part on
6 the scheduling information, wherein communicating the plurality of packets is based at least
7 in part on the plurality of encoding symbol identifiers.

1 129. The non-transitory computer-readable medium of claim 128, wherein
2 the scheduling information comprises a position of one or more resource blocks, a system
3 frame number, a slot number, or a symbol number, and wherein generating the plurality of
4 encoding symbol identifiers is based at least in part on the position of the one or more
5 resource blocks, the system frame number, the slot number, the symbol number, or a
6 combination thereof.

1 130. The non-transitory computer-readable medium of claim 125, wherein
2 the instructions are further executable by the processor to:
3 communicate control signaling comprising an indication of a source block
4 number.

1 131. The non-transitory computer-readable medium of claim 130, wherein
2 the control signaling comprises a downlink control information message comprising the
3 indication of the source block number, a radio resource control message comprising the
4 indication of the source block number, or a medium access control (MAC) control element
5 message comprising the indication of the source block number.

1 132. The non-transitory computer-readable medium of claim 130, wherein
2 each packet of the plurality of packets excludes any indication of the source block number
3 based at least in part on receiving the indication of the source block number.

1 133. The non-transitory computer-readable medium of claim 130, wherein
2 the instructions to communicate the control signaling comprising the indication of the source
3 block number are executable by the processor to:
4 receive, at a user equipment, the indication of the source block number.

1 134. The non-transitory computer-readable medium of claim 130, wherein
2 the instructions to communicate the control signaling comprising the indication of the source
3 block number are executable by the processor to:
4 transmit, from a base station, the indication of the source block number.

1 135. The non-transitory computer-readable medium of claim 125, wherein
2 the instructions to transmit the plurality of packets are executable by the processor to transmit
3 a first transport block, wherein the first transport block comprises a plurality of first code
4 blocks comprising the plurality of packets, and wherein the plurality of packets comprises a
5 plurality of first packets associated with a first redundancy version, and wherein the
6 instructions are executable by the processor to:
7 transmit a second transport block, wherein the second transport block
8 comprises a plurality of second code blocks comprising a plurality of second packets
9 associated with a second redundancy version; and

10 receive an indication of a number of one or more of the plurality of second
11 code blocks, wherein the indication of the number indicates a failure to successfully decode
12 the one or more of the plurality of second code blocks, wherein the plurality of first packets
13 are transmitted based at least in part on receiving the indication of the number.

1 136. The non-transitory computer-readable medium of claim 125, wherein
2 the instructions are further executable by the processor to:
3 receive an acknowledgement message based at least in part on transmitting the
4 plurality of packets.

1 137. The non-transitory computer-readable medium of claim 125, wherein
2 each packet of the plurality of packets excludes any indication of the plurality of encoding
3 symbol identifiers based at least in part on communicating the indication of the plurality of
4 encoding symbol identifiers.

1 138. The non-transitory computer-readable medium of claim 125, wherein
2 the instructions are further executable by the processor to:
3 encode a plurality of source symbols using a raptor code to generate the
4 plurality of encoding symbols.

1 139. The non-transitory computer-readable medium of claim 125, wherein
2 the instructions to communicate the indication of the plurality of encoding symbol identifiers
3 are executable by the processor to:
4 receive, at a user equipment, the indication of the plurality of encoding symbol
5 identifiers.

1 140. The non-transitory computer-readable medium of claim 125, wherein
2 the instructions to communicate the indication of the plurality of encoding symbol identifiers
3 are executable by the processor to:
4 transmit, from a base station, the indication of the plurality of encoding
5 symbol identifiers.