CLAIMS

1. A method for wireless communication at a user terminal, the method comprising:

receiving, from a base station, a message via a communication link in a non-terrestrial network, the message indicative of a configurable hybrid automatic repeat request (HARQ) process that is configurable on a per-HARQ process basis, wherein the message indicates or includes a modulation and coding scheme (MCS) table;

determining a parameter for the configurable HARQ process based at least in part on the message, wherein determining the parameter further comprises reducing a quantity of maximum HARQ retransmissions allowed during the configurable HARQ process based at least in part on the message; and

performing the configurable HARQ process based at least in part on the parameter, wherein performing the configurable HARQ process is based at least in part on the MCS table, wherein a different MCS targeting a lower block error rate is utilized from the MCS table based on reducing the quantity of maximum HARQ retransmission allowed during the configurable HARQ process.

2. The method of claim 1, wherein determining the parameter is based at least in part on the wireless communication link being a part of the non-terrestrial network.

3. The method of claim 1, further comprising:

determining that a round trip delay associated with the configurable HARQ process between the base station and the user terminal satisfies a threshold, wherein determining the parameter is based at least in part on determining that the round trip delay satisfies the threshold.

4. The method of claim 1, further comprising:

determining that a propagation delay window between transmitting a transport block and receiving a positive acknowledgement or negative acknowledgement satisfies a threshold, and wherein determining the parameter is based at least in part on determining that the propagation delay window satisfies the threshold.

5. The method of claim 1, wherein determining the parameter further comprises:

determining to disable one or more features of the HARQ process associated with one or more transport blocks.

6. The method of claim 5, wherein the parameter indicates that a positive acknowledgement or a negative acknowledgement will follow a data transmission.

7. The method of claim 5, wherein the parameter indicates whether HARQ combining is used for performing the configurable HARQ process.

8. The method of claim 5, wherein the message is received via radio resource control (RRC) signaling or in a system information block (SIB).

9. The method of claim 1, wherein the HARQ process is disabled based at least in part on receiving the message, wherein the message includes an identified HARQ process identifier.

10. The method of claim 1, further comprising:

flushing one or more buffers associated with the configurable HARQ process based at least in part on receiving the message, wherein the message comprises an indicator to cause the user terminal to flush the one or more buffers associated with the configurable HARQ process.

11. The method of claim 1, wherein determining the parameter further comprises:

determining that a HARQ transmission spans more than one slot, wherein the parameter comprises a size of the HARQ transmission.

12. The method of claim 11, further comprising:

receiving one or more grouped code blocks from the transport block over multiple slots.

13. A method for wireless communication at a base station, the method comprising:

determining a parameter for a configurable hybrid automatic repeat request (HARQ) process that is configurable on a per-HARQ process basis for a user terminal, wherein the parameter relates to reducing a quantity of maximum HARQ retransmissions allowed during the configurable HARQ process; and

transmitting, to the user terminal, a message via a communication link in a non-terrestrial network, the message being indicative of the configurable HARQ process and the parameter, wherein the message indicates or includes a modulation and coding scheme (MCS) table, wherein a different MCS targeting a lower block error rate is utilized from the MCS table based on reducing the quantity of maximum HARQ retransmissions.

14. The method of claim 13, further comprising:

determining that a round trip delay associated with the configurable HARQ process between the base station and the user terminal satisfies a threshold, wherein determining the parameter is based at least in part on determining that the round trip delay satisfies the threshold.

15. The method of claim 13, further comprising:

determining that a propagation delay window between transmitting a transport block and receiving a positive acknowledgement or negative acknowledgement satisfies a threshold, and wherein determining the parameter is based at least in part on determining that the propagation delay window satisfies the threshold.

16. The method of claim 13, wherein determining the parameter further comprises:

determining to disable one or more features of the HARQ process associated with one or more transport blocks.

17. The method of claim 16, wherein disabling HARQ processes is done on a per-cell basis.

18. The method of claim 16, wherein the message comprises an indicator that causes the user terminal to flush one or more buffers associated with the configurable HARQ process.

19. The method of claim 16, wherein the message comprises a HARQ acknowledgement configured to cause the user terminal to flush a buffer associated with the configurable acknowledgement process.

20. The method of claim 13, wherein determining the parameter further comprises:

determining that a HARQ transmission spans more than one slot, wherein the parameter comprises a size of the HARQ transmission.

21. The method of claim 20, further comprising:
grouping code blocks from multiple transport blocks; and
transmitting the grouped code blocks over multiple slots.

22. An apparatus for wireless communication at a user terminal, the apparatus comprising:
means for performing the method of any one of claims 1 to 12.

23. A computer-readable medium comprising instructions which, when executed by a computer, cause the computer to perform the method of any one of claims 1 to 13.