CLAIMS

1. A baseband processing method, wherein the method comprises:

receiving, by a first apparatus, first function information and first power consumption information from a radio frequency apparatus, wherein the first function information indicates at least one first baseband processing function supported by the radio frequency apparatus, and the first power consumption information indicates power consumption of implementing each of the at least one first baseband processing function by the radio frequency apparatus; and

sending, by the first apparatus, first indication information to the radio frequency apparatus, wherein the first indication information indicates a first target baseband processing function, the first target baseband processing function comprises one or more of the at least one first baseband processing function, the first indication information is determined based on the first function information, the first power consumption information, second function information, and second power consumption information, the second function information indicates at least one second baseband processing function supported by a first control apparatus, and the second power consumption information indicates power consumption of implementing each of the at least one second baseband processing function by the first control apparatus, wherein

the first target baseband processing function is the first M required baseband processing functions or the last K required baseband processing functions in N required baseband processing functions, N, M, and K are positive integers, $M \leq N$, $K \leq N$, and the N required baseband processing functions are baseband processing functions that are sequentially performed by the radio frequency apparatus and the first control apparatus during processing of a baseband signal.

2. The method according to claim 1, wherein the first function information comprises bandwidth information, the bandwidth information indicates a bandwidth supported by the radio frequency apparatus, and the bandwidth is greater than or equal to a first value.

3. The method according to claim 1 or 2, wherein the method further comprises:

receiving, by the first apparatus, the second function information and the second power consumption information from the first control apparatus; and

sending, by the first apparatus, second indication information to the first control apparatus, wherein the second indication information indicates a second target baseband processing function, the second target baseband processing function comprises one or more of the at least one second baseband processing function, and the second target baseband processing function is a baseband processing function other than the first target baseband processing function in the N required baseband processing functions.

4. The method according to claim 3, wherein the method further comprises:

sending, by the first control apparatus, the second function information and the second power consumption information to the first apparatus; and

receiving, by the first control apparatus, the second indication information from the first apparatus.

5. The method according to any one of claims 1 to 4, wherein before the sending, by the first apparatus, first indication information to the radio frequency apparatus, the method further comprises:

receiving, by the first apparatus, third function information and third power consumption information from a second control apparatus, wherein the third function information indicates at least one third baseband processing function supported by the second control apparatus, the third power consumption information indicates power consumption of each of the at least one third baseband processing function for the second control apparatus, and the first indication information is determined based on the first function information, the first power consumption information, the second function information, the second power consumption information, the third function information, and the third power consumption information.

6. The method according to claim 5, wherein the method further comprises:

sending, by the second control apparatus, the third function information and the third power consumption information to the first apparatus.

7. The method according to any one of claims 1 to 6, wherein the first function information comprises first working mode information, the first working mode information indicates at least one first working mode supported by the radio frequency apparatus, the first working mode is a working mode used when the radio frequency apparatus performs one or more of the at least one baseband processing function, the first indication information further indicates a first target working mode, and the first target working mode is for performing the first target baseband processing function.

8. The method according to any one of claims 1 to 7, wherein the first function information further comprises at least one of the following information: a quantity of users that is supported when the radio frequency apparatus performs each first baseband processing function, a quantity of data streams or service streams that is supported when the radio frequency apparatus performs each first baseband processing function, or a quantity of resource blocks that is supported when the radio frequency apparatus performs each first baseband processing function.

9. The method according to any one of claims 1 to 8, wherein the method further comprises:

sending, by the radio frequency apparatus, the first function information and the first power consumption information to the first apparatus; and

receiving, by the radio frequency apparatus, the first indication information from the first

apparatus.

10. A baseband processing method, wherein the method comprises:

sending, by a radio frequency apparatus, first function information and first power consumption information to a first apparatus, wherein the first function information indicates at least one first baseband processing function supported by the radio frequency apparatus, and the first power consumption information indicates power consumption of implementing each of the at least one first baseband processing function by the radio frequency apparatus; and

receiving, by the radio frequency apparatus, first indication information from the first apparatus, wherein the first indication information indicates a first target baseband processing function, the first target baseband processing function comprises one or more of the at least one first baseband processing function, the first indication information is determined based on the first function information, the first power consumption information, second function information, and second power consumption information, the second function information indicates at least one second baseband processing function supported by a first control apparatus, and the second power consumption information indicates power consumption of implementing each of the at least one second baseband processing function by the first control apparatus, wherein the first target baseband processing function is the first M required baseband processing functions or the last K required baseband processing functions in N required baseband processing functions, N, M, and K are positive integers, $M \leq N$, $K \leq N$, and the N required baseband processing functions are baseband processing functions that are sequentially performed by the radio frequency apparatus and the first control apparatus during processing of a baseband signal.

11. The method according to claim 10, wherein the first function information comprises bandwidth information, the bandwidth information indicates a bandwidth supported by the radio frequency apparatus, and the bandwidth is greater than or equal to a first value.

12. The method according to claim 10 or 11, wherein the first function information comprises first working mode information, the first working mode information indicates at least one first working mode supported by the radio frequency apparatus, the first working mode is a working mode used when the radio frequency apparatus performs one or more of the at least one baseband processing function, the first indication information further indicates a first target working mode, and the first target working mode is for performing the first target baseband processing function.

13. The method according to any one of claims 10 to 12, wherein the first function information further comprises at least one of the following information: a quantity of users that is supported when the radio frequency apparatus performs each first baseband processing function, a quantity of data streams or service streams that is supported when the radio frequency apparatus performs each first baseband processing function, or a quantity of resource blocks that is supported

when the radio frequency apparatus performs each first baseband processing function.

14. A communication apparatus, comprising a processor, wherein the processor is coupled to a memory, the memory is configured to store a computer program or instructions, and the processor is configured to execute the computer program or the instructions to implement the method according to any one of claims 1 to 9 or the method according to any one of claims 10 to 13.

15. A baseband processing system, comprising: the apparatus configured to implement the method according to any one of claims 1 to 9 and the apparatus configured to implement the method according to any one of claims 10 to 13.

16. A computer program product, comprising instructions, wherein when the instructions are run on a computer, the computer is enabled to perform the method according to any one of claims 1 to 9, or the computer is enabled to perform the method according to any one of claims 10 to 13.

17. A computer-readable storage medium, comprising a computer program, wherein when the computer program is run on a computer, the computer is enabled to perform the method according to any one of claims 1 to 9, or the computer is enabled to perform the method according to any one of claims 10 to 13.

18. A chip, comprising one or more processing circuits, wherein the one or more processing circuits are configured to implement the method according to any one of claims 1 to 9 or implement the method according to any one of claims 10 to 13.

19. A communication apparatus, comprising a unit configured to implement the method according to any one of claims 1 to 9 or implement the method according to any one of claims 10 to 13.