Claims

1. A wireless communication device comprising:

a processor; and

a transceiver;

wherein the processor and the transceiver are configured to:

transmit or receive a signal, using a first radio access technology (RAT), the signal carrying information indicating a generator trained using a data set,

generate, using the generator, first data for transmission using the first RAT, and

generate, using the generator, second data for transmission using a second RAT different from the first RAT.

2. The wireless communication device according to claim 1, wherein the processor and the transceiver are further configured to transmit or receive, using the second RAT, a second signal carrying the information.

3. The wireless communication device according to claim 1, wherein the information comprises at least part of an identifier of the generator.

4. The wireless communication device according to claim 1, wherein the generator comprises an artificial intelligence (AI) or machine learning (ML) model.

5. The wireless communication device according to claim 1, wherein each of the first RAT and the second RAT is selected from the group consisting of a Sixth Generation(6G) RAT, a RAT beyond 6G, a Wi-Fi RAT, or a Bluetooth RAT.

6. The wireless communication device according to claim 1, wherein one of the first RAT and the second RAT is a cellular network RAT and the other of the first RAT and the second RAT is a non-cellular network RAT.

7. A method, implemented in a wireless communication device, the method comprising:

transmitting or receiving a signal, using a first radio access technology (RAT), the signal carrying information indicating a generator trained using a data set;

generating, using the generator, first data for transmission using the first RAT; and

generating, using the generator, second data for transmission using a second RAT different from the first RAT.

8. The method according to claim 7, further comprising transmitting or receiving, using the second RAT, a second signal carrying the information.

9. The method according to claim 7, wherein the information comprises at least part of an identifier of the generator.

10. The method according to claim 7, wherein the generator comprises an artificial intelligence (AI) or machine learning (ML) model.

11. The method according to claim 7, wherein each of the first RAT and the second RAT is selected from the group consisting of a Sixth Generation (6G) RAT, a RAT beyond 6G, a Wi-Fi RAT, or a Bluetooth RAT.

12. The method according to claim 7, wherein one of the first RAT and the second RAT is a cellular network RAT and the other of the first RAT and the second RAT is a non-cellular RAT.

13. The wireless communication device according to claim 1, wherein the first data and the second data each comprise at least one of user data, control information, or physical layer information.

14. The wireless communication device according to claim 1, wherein the processor is further configured to perform at least one of:

compressing, using the generator, first source data to generate the first data for transmission using the first RAT, or

compressing, using the generator, second source data to generate the second data for transmission using the second RAT.

15. The wireless communication device according to claim 1, wherein:

the first data has a first data format defined by the first RAT, and

the second data has a second data format defined by the second RAT.

16. The wireless communication device according to claim 1, wherein the data set comprises at least one of:

measurement data obtained by measuring signals defined by the first RAT and the second RAT, or

historical data associated with transmissions using the first RAT and transmissions using the second RAT.

17. The method according to claim 7, wherein the first data and the second data each comprise at least one of user data, control information, or physical layer information.

18. The method according to claim 7, further comprising at least one of:

compressing, using the generator, first source data to generate the first data for transmission using the first RAT, or

compressing, using the generator, second source data to generate the second data for transmission using the second RAT.

19. The method according to claim 7, wherein:

the first data has a first data format defined by the first RAT, and

the second data has a second data format defined by the second RAT.

20. The method according to claim 7, wherein the data set comprises at least one of:

measurement data obtained by measuring signals defined by the first RAT and the second RAT, or

historical data associated with transmissions using the first RAT and transmissions using the second RAT.