CLAIMS

1. A method for wireless communication, comprising:

reporting, by a first communication device to a first base station, at least a first part of Quality of Service (QoS) information applicable between the first communication device and a relay communication device, wherein the first communication device is configured to communicate with a second communication device via the relay communication device,

wherein the first part of QoS information includes a packet delay budget that indicates an upper bound value for a packet delay between the first communication device and the relay communication device; and

receiving, by the first communication device, sidelink configuration information that is based on at least the first part of QoS information from the first base station.

2. The method of claim 1, further comprising:

transmitting, by the first communication device, a mapping of one or more QoS flows to one or more data bearers between the first communication device and the second communication device to the relay communication device based on at least the sidelink configuration information.

3. A method for wireless communication, comprising:

receiving, by a first base station from a first communication device, at least a first part of Quality of Service (QoS) information applicable between the first communication device and a relay communication device, wherein the first communication device is configured to communicate with a second communication device via the relay communication device,

wherein the first part of QoS information includes a packet delay budget that indicates an upper bound value for a packet delay between the first communication device and the relay communication device; and

transmitting, by the first base station, sidelink configuration information that is based on at least the first part of QoS information to the first communication device.

4. The method of claim 3, wherein the receiving comprises receiving a second part of QoS information applicable between the relay communication device and the second communication device from the relay communication device,

wherein the second part of QoS information includes a packet delay budget that indicates an upper bound value for a packet delay between the relay communication device and the second communication device, and the method further comprises:

transmitting, by the first base station to the relay communication device, sidelink configuration information that is based on the second part of QoS information.

5. A method for wireless communication, comprising:

receiving, by a relay communication device from a base station, sidelink configuration information that is based on at least a second part of Quality of Service (QoS) information applicable between the relay communication device and a second communication device,

wherein the second part of QoS information includes a packet delay budget that indicates an upper bound value for a packet delay between the relay communication device and the second communication device; and

facilitating a communication between the second communication device and a first communication device by the relay communication device based on the sidelink configuration information.

6. The method of claim 5, comprising:

receiving, by the relay communication device, a mapping of one or more QoS flows to one or more data bearers between the first communication device and the second communication device.

7. The method of claim 5 or 6, comprising:

transmitting, by the relay communication device, bearer configuration information to the second communication device based on the sidelink configuration information.

8. The method of any of claim 5 to 7, further comprising:

reporting, by the relay communication device, relay assistance information to the base station, the relay assistance information comprising at least the second part of QoS information.

9. The method of claim 8, wherein the relay assistance information comprises at least one of the second part of QoS information, an identity of the first communication device, a PC5 RLC bearer configuration for the first communication device, a mapping of one or more PC5 QoS flows to one or more sidelink DRBs between the first communication device and the second communication device, a mapping of the one or more sidelink DRBs between the first communication device and the second communication device to one or more PC5 RLC bearers, an identity of the relay communication device, a relay indication, an identity of the second communication device, or a PC5 QoS profile.

10. The method of any of claims 1 to 9, wherein the QoS information comprises information about one or more QoS flows, the information comprising at least one of a QoS Flow identifier or a QoS profile associated with a flow, wherein the QoS profile comprises at least one of a PC5 QoS Identifier (PQI), a resource type, a priority level, a packet delay budget, a packet error rate, an averaging window, a maximum data burst volume, a Guaranteed Flow Bit Rate (GFBR), or a Maximum Flow Bit Rate (MFBR).

11. The method of any of claims 1 to 10, wherein the sidelink configuration information comprises at least one of: a Service Data Adaptation Protocol (SDAP) configuration of a sidelink data radio bearer (DRB) between the first communication device and the second communication device, a Packet Data Convergence Protocol (PDCP) configuration of the sidelink DRB between the first communication device and the second communication device, a PC5 Radio Link Control (RLC) bearer configuration between the first communication device and the relay communication device or between the relay communication device and the second communication device, an adaptation layer configuration, a sidelink mode 1 resource allocation, or a sidelink configured grant type 1 resource allocation.

12. A communication apparatus, comprising a processor configured to implement a method recited in any one or more of claims 1 to 2, or 10 to 11.

13. A communication apparatus, comprising a processor configured to implement a method recited in any one or more of claims 3 to 4, or 10 to 11.

14. A communication apparatus, comprising a processor configured to implement a method recited in any one or more of claims 5 to 9, or 10 to 11.

15. A computer program product having code stored thereon, the code, when executed by a processor, causing the processor to implement a method recited in any one or more of claims 1 to 11.