CLAIMS

What is claimed is:

1. A method implemented in a wireless transmit/receive unit (WTRU), the method comprising:

determining a first configuration associated with a QoS flow for the WTRU;

sending quality of service (QoS) information to a relay WTRU, wherein the QoS information indicates the first QoS profile for a QoS flow, and wherein the first QoS profile includes a packet delay budget (PDB);

receiving PDB information from the relay WTRU, wherein the PDB information indicates a split PDB for a first hop for the QoS flow;

determining a second configuration associated with the QoS flow for the WTRU from a second QoS profile, wherein the second QoS profile differs from the first QoS profile by including the split PDB;

configuring a bearer based on the first configuration and the second configuration; and

using the bearer to transmit data for the QoS flow.

2. The method of claim 1, wherein the second configuration is a RLC channel configuration.

3. The method of claim 1, wherein the PDB is an end-to-end PDB.

4. The method of claim 2, comprising sending, to a network, request information for requesting the RLC channel configuration.

5. The method of claim 4, wherein the request information is sent in a radio resource control message.

6. The method of claim 4, wherein the request information includes an indication that the WTRU is a source WTRU.

7. The method of claim 4, comprising determining to send the request information to the network based on operating in a first allocation mode.

8. The method of claim 7, wherein, in the first allocation mode, resource allocation is controlled by the network.

9. The method of claim 4, comprising receiving response information from the network, wherein the response information indicates the RLC channel configuration.

10. A wireless transmit/receive unit (WTRU) comprising circuitry, including a transmitter, a receiver, a processor, and memory, configured to:

determine a first configuration associated with a QoS flow for the WTRU;

send quality of service (QoS) information to a relay WTRU, wherein the QoS information indicates the first QoS profile for a QoS flow, and wherein the first QoS profile includes a packet delay budget (PDB);

receive PDB information from the relay WTRU, wherein the PDB information indicates a split PDB for a first hop for the QoS flow;

determine a second configuration associated with the QoS flow for the WTRU from a second QoS profile, wherein the second QoS profile differs from the first QoS profile by including the split PDB;

configure a bearer based on the first configuration and the second configuration; and

use the bearer to transmit data for the QoS flow.

11. The WTRU of claim 10, wherein the second configuration is a RLC channel configuration.

12. The WTRU of claim 10, wherein the PDB is an end-to-end PDB.

13. The WTRU of claim 10, configured to send, to a network, request information for requesting the RLC channel configuration.

14. The WTRU of claim 13, wherein the request information is sent in a radio resource control message.

15. The WTRU of claim 13, wherein the request information includes an indication that the WTRU is a source WTRU.

16. The WTRU of claim 13, configured to determine to send the request information to the network based on operating in a first allocation mode.

17. The WTRU of claim 16, wherein, in the first allocation mode, resource allocation is controlled by the network.

18. The WTRU of claim 13, configured to receive response information from the network, wherein the response information indicates the RLC channel configuration.