CLAIMS

What is claimed is:

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

selecting, from a set of percentage value thresholds configured by the WTRU, a percentage value threshold based on a priority of data corresponding to each percentage value threshold in the set; and

on a condition that a number of available resources determined based on one or more quality of service (QoS) parameters of the data to be transmitted is above or equal to a threshold determined based on the percentage value threshold selected from the set of the percentage value thresholds, transmitting, using at least one of the available resources, the data to another WTRU.

2. The method of claim 1, further comprising:

on a condition that the number of available resources determined based on the one or more QoS parameters of the data to be transmitted is below the threshold determined based on the percentage value threshold selected from the set of percentage value threshold, increasing a reference signal received power (RSRP) threshold for the resource selection.

3. The method of claim 1, further comprising:

receiving configuration information that associates each percentage value threshold in the set to the priority of data to be transmitted.

4. The method of claim 1, further comprising:

determining the available resources for the resource selection; and

calculating the percentage of the available resources.

5. The method of claim 4, wherein the available resources are determined based on ProSe per packet priority (PPPP), ProSe per packet reliability (PPPR), one or more range parameters, or one or more 5G QoS indicators (5QIs).

6. A wireless transmit/receive unit (WTRU) comprising:

a processor; and

a transceiver,

the processor and the transceiver configured to:

select, from a set of percentage value thresholds configured by the processor, a percentage value threshold based on a priority of data corresponding to each percentage value threshold in the set; and

transmit, on a condition that a number of available resources determined based on one or more quality of service (QoS) parameters of the data to be transmitted is above or equal to a threshold determined based on the percentage value threshold selected from the set of the percentage value thresholds, the data to another WTRU using at least one of the available resources.

7. The WTRU of claim 6, wherein the processor and the transceiver are further configured to increase, on a condition that the number of the available resources determined based on the one or more QoS parameters of the data to be transmitted is below the threshold determined based on the percentage value threshold selected from the set of percentage value thresholds, a reference signal received power (RSRP) threshold for the resource selection.

8. The WTRU of claim 6, wherein the processor and the transceiver are configured to receive configuration information that associates each percentage value threshold in the set to the priority of data to be transmitted.

9. The WTRU of claim 6, wherein the processor is configured to:

determine the available resources for the resource selection; and

calculate the percentage of the available resources.

10. The WTRU of claim 9, wherein the available resources are determined based on ProSe per packet priority (PPPP), ProSe per packet reliability (PPPR), one or more range parameters, or one or more 5G QoS indicators (5QIs).