

What is claimed is

1. A method performed by a user equipment (UE) in a wireless communication system, the method comprising:

receiving, from a base station, a scaling factor for prioritized random access;
initiating a random access procedure for a handover;
receiving, from the base station, a random access response comprising a backoff indicator;
and

transmitting, after a random access backoff time, a random access preamble to the base station,

wherein, based on the random access procedure being initiated for the handover, the random access backoff time is related to (i) the backoff indicator and (ii) the scaling factor, and

wherein the scaling factor has a value of zero.

2. The method of claim 1, further comprising:

determining the random access backoff time based on a product of the backoff indicator and the scaling factor.

3. The method of claim 1, further comprising:

based on the random access procedure being initiated for the handover, adjusting the random access backoff time by the scaling factor, wherein the random access backoff time is related to the backoff indicator.

4. The method of claim 1, further comprising:

adjusting the random access backoff time to a value of zero based on the backoff indicator and the scaling factor.

5. The method of claim 1, wherein the random access backoff time is related to a second backoff value that is equal to a first backoff value multiplied by the scaling factor, and wherein the first backoff value corresponds to the backoff indicator.

6. The method of claim 5, wherein the random access backoff time is equal to a uniformly distributed value between 0 and the second backoff value.

7. The method of claim 1, wherein initiating the random access procedure for the handover comprises:

initiating the random access procedure for the handover from a first base station to a second base station with which the UE communicates.

8. A user equipment (UE) configured to operate in a wireless communication system, the UE comprising:

at least one radio frequency (RF) module;

at least one processor; and

at least one computer memory operably connectable to the at least one processor and storing instructions that, when executed, cause the at least one processor to perform operations comprising:

receiving, through the RF module and from a base station, a scaling factor for prioritized random access;

initiating a random access procedure for a handover;

receiving, through the RF module and from the base station, a random access response comprising a backoff indicator; and

transmitting, through the RF module and after a random access backoff time, a random access preamble to the base station,

wherein, based on the random access procedure being initiated for the handover, the random access backoff time is related to (i) the backoff indicator and (ii) the scaling factor, and

wherein the scaling factor has a value of zero.

9. The UE of claim 8, wherein the operations further comprise:

determining the random access backoff time based on a product of the backoff indicator and the scaling factor.

10. The UE of claim 8, wherein the operations further comprise:

based on the random access procedure being initiated for the handover, adjusting the random access backoff time by the scaling factor, wherein the random access backoff time is related to the backoff indicator.

11. The UE of claim 8, wherein the operations further comprise:

adjusting the random access backoff time to a value of zero based on the backoff indicator and the scaling factor.