CLAIMS

1. A method of wireless communication performed by a user equipment functionality (UEF) entity, comprising:

identifying a scaling factor associated with determining a periodicity of backhaul physical random access channel (PRACH) resources;

determining a periodicity of PRACH resources associated with a PRACH configuration index; and

determining the periodicity of the backhaul PRACH resources based at least in part on applying the scaling factor to the periodicity of PRACH resources associated with the PRACH configuration index,

wherein the scaling factor is used to extend the periodicity of the backhaul PRACH resources as compared to a periodicity of access PRACH resources.

2. The method of claim 1, wherein the periodicity of the backhaul PRACH resources is associated with identifying a radio frame location of a set of backhaul PRACH resources.

3. The method of claim 1, wherein. identifying the scaling factor comprises receiving a signal indicative of the scaling factor.

4. The method of claim 1, wherein applying the scaling factor to the periodicity of PRACH resource comprises multiplying the scaling factor and the periodicity of PRACH resources associated with the PRACH configuration index.

5. The method of claim 4, wherein the PRACH resources associated with the PRACH configuration index are applicable for PRACH transmission in an access network.

6. The method of claim 4, wherein a range of the scaling factor is based at least in part on the periodicity of the PRACH resources associated with the PRACH configuration index.

7. The method of claim 1, wherein an association period, associated with mapping

synchronization signal blocks to PRACH resources, is determined based at least in part on the scaling factor.

8. The method of claim 7, wherein the association period is determined such that a pattern between PRACH occasions and synchronization signal blocks repeats at an amount of time that is equal to or less than a product of a PRACH configuration period and the scaling factor.

9. The method of claim 1, wherein an association pattern period, associated with mapping synchronization signal blocks to PRACH resources, is determined based at least in part on the scaling factor.

10. The method of claim 9, wherein the association pattern period is determined based at least in part on the scaling factor, a PRACH configuration period associated with an association period, and an integer value associated with the association period.

11. The method of claim 9, wherein the association pattern period is determined such that a pattern between PRACH occasions and synchronization signal blocks repeats at an amount of time that is equal to or less than a product of a fixed time value and the scaling factor.

12. The method of claim 11, wherein the fixed time value is 160 milliseconds.

13. The method of claim 1, wherein the scaling factor is signaled to the UEF entity via at least one of:

remaining minimum system information;
other system information;
downlink control information;
a medium access control (MAC) control element;
radio resource control signaling; or
a handover command.

14. The method of claim 13, wherein the scaling factor is signaled to the UEF entity via a parameter associated with the radio resource control signaling.

15. A user equipment functionality (UEF) entity for wireless communication comprising:

memory; and

one or more processors operatively coupled to the memory, the memory and the one or more processors configured to:

identify a scaling factor associated with determining a periodicity of backhaul physical random access channel (PRACH) resources;

determine a periodicity of PRACH resources associated with a PRACH configuration index; and

determine the periodicity of the backhaul PRACH resources based at least in part on applying the scaling factor to the periodicity of PRACH resources associated with the PRACH configuration index,

wherein the scaling factor is used to extend the periodicity of the backhaul PRACH resources as compared to a periodicity of access PRACH resources.

16. A method of wireless communication performed by an access node functionality (ANF) entity, comprising:

identifying a scaling factor to be used by a user equipment functionality (UEF) entity in association with determining a periodicity of backhaul physical random access channel (PRACH) resources based at least in part on applying the scaling factor to a periodicity of PRACH resources associated with a PRACH configuration index; and

signaling the scaling factor to the UEF entity, wherein the scaling factor is to be used by the UEF entity to extend the periodicity of the backhaul PRACH resources as compared to a periodicity of access PRACH resources.

17. The method of claim 16, wherein the periodicity of the backhaul PRACH resources is associated with identifying a radio frame location of a set of backhaul PRACH resources.

18. The method of claim 16, wherein the scaling factor is an integer value.

19. The method of claim 16, wherein the periodicity of the backhaul PRACH resources is to be determined based at least in part on multiplying the scaling factor and the periodicity of PRACH resources associated with the PRACH configuration index.

20. The method of claim 19, wherein the PRACH resources associated with the PRACH configuration index are applicable for PRACH transmission in an access network.

21. The method of claim 19, wherein a range of the scaling factor is based at least in part on the periodicity of the PRACH resources associated with the PRACH configuration index.

22. The method of claim 16, wherein an association period, associated with mapping synchronization signal blocks to PRACH resources, is determined based at least in part on the scaling factor.

23. The method of claim 22, wherein the association period is determined such that a pattern between PRACH occasions and synchronization signal blocks repeats at an amount of time that is equal to or less than a product of a PRACH configuration period and the scaling factor.

24. The method of claim 16, wherein an association pattern period, associated with mapping synchronization signal blocks to PRACH resources, is to be determined based at least in part on the scaling factor.

25. The method of claim 24, wherein the association pattern period is to be determined based at least in part on the scaling factor, a PRACH configuration period associated with an association period, and an integer value associated with the association period.

26. The method of claim 24, wherein the association pattern period is to be determined such that a pattern between PRACH occasions and synchronization signal blocks repeats at an amount of time that is equal to or less than a product of a fixed time value and the scaling factor.

27. The method of claim 26, wherein the fixed time value is 160 milliseconds.

28. The method of claim 16, wherein the scaling factor is signaled to the UEF entity via at least one of:

remaining minimum system information;

other system information;

downlink control information;

a medium access control (MAC) control element;

radio resource control signaling; or

a handover command.

29. The method of claim 28, wherein the scaling factor is signaled to the UEF entity via a parameter associated with the radio resource control signaling.

30. An access node functionality (ANF) entity for wireless communication comprising:

memory; and

one or more processors operatively coupled to the memory, the memory and the one or more processors configured to:

identify a scaling factor to be used by a user equipment functionality (UEF) entity in association with determining a periodicity of backhaul physical random access channel (PRACH) resources based at least in part on applying the scaling factor to a periodicity of PRACH resources associated with a PRACH configuration index; and

signal the scaling factor to the UEF entity, wherein the scaling factor is to be used by the UEF entity to extend the periodicity of the backhaul PRACH resources as compared to a periodicity of access PRACH resources.