CLAIMS

1. A method for performing access control by a user equipment (UE), comprising:

obtaining access barring parameters, wherein the access barring parameters include different access attempt factors, per access category, for the UE to apply when performing access barring checks in different states, wherein the access barring parameters provide:

a first mapping of an access attempt to an access category for the UE to use in performing the access barring checks for the access attempt when transitioning to a connected mode from an idle or inactive mode; and

a second mapping of the access attempt to an access category for the UE to use in performing the access barring checks for the access attempt when in the connected mode; and

performing the access barring checks for the access attempt, based on the first mapping or the second mapping depending on the access attempt factors for a current state of the UE.

2. The method of claim 1, wherein the first mapping is based on an application type.

3. The method of claim 1, wherein the second mapping, is based on at least one of a bearer ID, a quality of service (QoS) flow ID (QFI), or a QoS Indicator.

4. The method of claim 3, wherein, when at least one of a new bearer is added, a new QoS flow is added, or the access barring parameters are updated, the method further comprises deriving the access category for each new QoS flow or new bearer.

5. The method of claim 1, wherein the second mapping, for signaling traffic, is based on different priorities for different radio resource control (RRC) or non-access stratum (NAS) procedures.

6. The method of claim 1, wherein the UE obtains configuration for the first mapping while in the connected mode.

7. The method of claim 6, wherein the UE maintains the configuration for at least one of:

a specified duration;

until the UE is reconfigured; or

the UE moves to a new cell.

8. The method of claim 1, wherein at least a first portion of the access barring parameters are obtained via broadcast signaling.

9. The method of claim 8, wherein at least a second portion of the access barring parameters are obtained via dedicated signaling.

10. The method of claim 1, wherein the access barring parameters comprise barring information for each category.

11. The method of claim 1, further comprising receiving an indication of a priority of broadcast access barring parameters relative to access barring parameters signaled via dedicated signaling.

12. The method of claim 1, wherein the access barring parameters are signaled in one or more messages.

13. The method of claim 12, wherein one of the messages has part of the broadcast access parameters and indicates the existence additional parameters.

14. A method for performing access control by a network entity, comprising:

determining access barring parameters that include different access attempt factors, per access category, for at least one user equipment (UE) to apply when performing access barring checks in different states, wherein the access barring parameters provide:

a first mapping of an access attempt to an access category for the UE to use in performing the access barring checks for the access attempt when transitioning to a connected mode from an idle or inactive mode; and

a second mapping of the access attempt to an access category for the UE to use in performing the access barring checks for the access attempt when in the connected mode;

and

signaling the access barring parameters to the UE.

15. The method of claim 14, wherein the first mapping is based on an application type.

16. The method of claim 14, wherein the second mapping, is based on at least one of a bearer ID, a quality of service (QoS) flow ID (QFI), or a QoS Indicator.

17. The method of claim 14, wherein the second mapping, for signaling traffic, is based on different priorities for different RRC or NAS procedures.

18. The method of claim 14, wherein the network entity signals configuration for the first mapping while the UE is in the connected mode.

19. The method of claim 18, wherein the UE is configured to maintain the configuration for at least one of:

a specified duration;

until the UE is reconfigured; or

the UE moves to a new cell.

20. The method of claim 14, wherein at least a first portion of the access barring parameters are signaled via broadcast signaling.

21. The method of claim 20, wherein at least a second portion of the access barring parameters is signaled via dedicated signaling.

22. The method of claim 14, wherein the access barring parameters comprise barring information for each category.

23. The method of claim 14, further comprising providing an indication of a priority of broadcast access barring parameters relative to access barring parameters signaled via dedicated

signaling.

24. The method of claim 14, wherein the access barring parameters are signaled in one or more messages.

25. The method of claim 24, wherein one of the messages has part of the broadcast access parameters and indicates the existence additional parameters.

26. An apparatus for performing access control by a user equipment (UE), comprising:

means for obtaining access barring parameters, wherein the access barring parameters include different access attempt factors, per access category, for the UE to apply when performing access barring checks in different states, wherein the access barring parameters provide:

a first mapping of an access attempt to an access category for the UE to use in performing the access barring checks for the access attempt when transitioning to a connected mode from an idle or inactive mode; and

a second mapping of the access attempt to an access category for the UE to use in performing the access barring checks for the access attempt when in the connected mode; and

means for performing access barring checks, based on a mapping of access attempts to access categories and depending on the access attempt factors for a current state of the UE.

27. An apparatus for performing access control by a network entity, comprising:

means for determining access barring parameters that include different access attempt factors, per access category, for at least one user equipment (UE) to apply when performing access barring checks in different states, wherein the access barring parameters provide:

a first mapping of an access attempt to an access category for the UE to use in performing the access barring checks for the access attempt when transitioning to a connected mode from an idle or inactive mode; and

a second mapping of the access attempt to an access category for the UE to use in performing the access barring checks for the access attempt when in the connected mode; and

means for signaling the access barring parameters to the UE.