

WHAT IS CLAIMED IS:

1. A triggering retaining method, applied to user equipment, the trigger retaining method comprising:

generating a media access control protocol data unit (MAC PDU) according to received uplink resource allocation indication information (UL grant) for a first service;

in response to receiving a UL grant for a second service after receiving the UL grant for the first service, wherein an uplink transmission opportunity for the UL grant for the second service precedes an uplink transmission opportunity for the UL grant for the first service and determining that the MAC PDU comprises a buffer status report (BSR), retaining triggering of a BSR and/or a scheduling request (SR) within a first predetermined duration; and

cancelling the BSR and/or the SR, for which the triggering is retained, after the first predetermined duration,

wherein the first predetermined duration is from a timing at which it is determined that the MAC PDU comprises the BSR to an uplink transmission timing corresponding to the UL grant for the first service.

2. The triggering retaining method according to claim 1, wherein the uplink resource allocation indication information is for the first service, and retaining the triggering of the BSR and/or the SR within the first predetermined duration comprises:

retaining triggering of the BSR and/or the SR for the second service within the first predetermined duration.

3. The triggering retaining method according to claim 2, wherein retaining the triggering of the BSR and/or the SR within the first predetermined duration further comprises:

determining, before retaining triggering of the BSR and/or the SR for the second service within the first predetermined duration, whether the second service satisfies a predetermined condition,

in response to the second service satisfies the predetermined condition, retaining the

triggering of the BSR and/or the SR for the second service within the first predetermined duration;

wherein the predetermined condition is that a time parameter correlated to a required delay of the second service is less than an uplink shared channel (ULSCH) duration corresponding to the uplink resource allocation indication information for the first service or is less than a second predetermined duration corresponding to the uplink resource allocation indication information for the first service or is prior to an uplink transmission timing corresponding to the uplink resource allocation indication information for the first service, the second predetermined duration being a duration between a timing at which the user equipment receives the uplink resource allocation indication information for the first service and the uplink transmission timing corresponding to the uplink resource allocation indication information for the first service.

4. The triggering retaining method according to claim 3, wherein the time parameter is a maximum ULSCH duration in a priority limit parameter of a logical channel for the second service, and the predetermined condition is that the time parameter is less than the ULSCH duration corresponding to the uplink resource allocation indication information for the first service.

5. The triggering retaining method according to claim 4, wherein in response to that the priority limit parameter comprises no maximum ULSCH duration, a maximum ULSCH duration allowed by the user equipment is taken as the maximum ULSCH duration in the priority limit parameter.

6. The triggering retaining method according to claim 3, wherein the time parameter is a transmission cycle of an SR configured for a logical channel for the second service, and the predetermined condition is that the time parameter is less than the second predetermined duration corresponding to the uplink resource allocation indication information for the first service.

7. The triggering retaining method according to claim 3, wherein the time parameter is a third predetermined duration, and the predetermined condition is that the time parameter is less than the second predetermined duration corresponding to the uplink resource allocation indication information for the first service, wherein the third predetermined duration is configured by a base station for the user equipment in advance, or, the SR is triggered in response to there is no UL SCH available for BSR transmission within the third predetermined duration starting from a timing at which the BSR corresponding to the first service is triggered.

8. The triggering retaining method according to claim 3, wherein the time parameter is a maximum second predetermined duration configured for a logical channel for the second service, and the predetermined condition is that the time parameter is less than the second predetermined duration corresponding to the uplink resource allocation indication information for the first service.

9. The triggering retaining method according to claim 3, wherein the time parameter is an uplink transmission timing latest configured for a SR for a logical channel for triggering of a BSR after a logical channel for the second service triggers the BSR, and the predetermined condition is that the time parameter is prior to the uplink transmission timing corresponding to the uplink resource allocation indication information for the first service.

10. A triggering retaining apparatus, applied to user equipment, the triggering retaining apparatus comprising:

a generation module, configured to generate a media access control protocol data unit (MAC PDU) according to received uplink resource allocation indication information (UL grant) for a first service; and

a retaining module, configured to, in response to receiving a UL grant for a second service after receiving the UL grant for the first service, wherein an uplink transmission

opportunity for the UL grant for the second service precedes an uplink transmission opportunity for the UL grant for the first service and determining that the MAC PDU comprises a buffer status report (BSR), retain triggering of a BSR and/or a scheduling request (SR) within a first predetermined duration; and

a cancellation module, configured to cancel the BSR and/or the SR, for which the triggering is retained, after the first predetermined duration,

wherein the first predetermined duration is from a timing at which it is determined that the MAC PDU comprises the BSR to an uplink transmission timing corresponding to the UL grant for the first service.

11. The triggering retaining apparatus according to claim 10, wherein the uplink resource allocation indication information is for the first service, and the retaining module comprises:

a retaining sub-module, configured to retain triggering of the BSR and/or the SR for the second service within the first predetermined duration.

12. The triggering retaining apparatus according to claim 11, wherein the retaining module further comprises:

a determination sub-module, configured to determine, before retaining triggering of the BSR and/or the SR for the second service within the first predetermined duration, whether the second service satisfies a predetermined condition,

wherein in response to the second service satisfies the predetermined condition, the retaining sub-module is configured to retain triggering of the BSR and/or the SR for the second service within the first predetermined duration; and

the predetermined condition is that a time parameter correlated to a required delay of the second service is less than an uplink shared channel (ULSCH) duration corresponding to the uplink resource allocation indication information for the first service or is less than a second predetermined duration corresponding to the uplink resource allocation indication information for the first service or is prior to an uplink transmission timing corresponding to the uplink resource allocation indication information for the first service, and the second

predetermined duration is a duration between a timing at which the user equipment receives the uplink resource allocation indication information for the first service and the uplink transmission timing corresponding to the uplink resource allocation indication information for the first service.

13. The triggering retaining apparatus according to claim 12, wherein the time parameter is a maximum ULSCH duration in a priority limit parameter of a logical channel for the second service, and the predetermined condition is that the time parameter is less than the ULSCH duration corresponding to the uplink resource allocation indication information for the first service.

14. The triggering retaining apparatus according to claim 13, wherein in response to that the priority limit parameter comprises no maximum ULSCH duration, a maximum ULSCH duration allowed by the user equipment is taken as the maximum ULSCH duration in the priority limit parameter.

15. The triggering retaining apparatus according to claim 12, wherein the time parameter is a transmission cycle of an SR configured for a logical channel for the second service, and the predetermined condition is that the time parameter is less than the second predetermined duration corresponding to the uplink resource allocation indication information for the first service.

16. The triggering retaining apparatus according to claim 12, wherein the time parameter is a third predetermined duration, and the predetermined condition is that the time parameter is less than the second predetermined duration corresponding to the uplink resource allocation indication information for the first service, wherein the third predetermined duration is configured by a base station for the user equipment in advance, or, the SR is triggered in response to there is no ULSCH available for BSR transmission within the third predetermined duration starting from a timing at which the BSR corresponding to the first

service is triggered.

17. The triggering retaining apparatus according to claim 12, wherein the time parameter is a maximum second predetermined duration configured for a logical channel for the second service, and the predetermined condition is that the time parameter is less than the second predetermined duration corresponding to the uplink resource allocation indication information for the first service.

18. The triggering retaining apparatus according to claim 12, wherein the time parameter is an uplink transmission timing latest configured for a SR for a logical channel for triggering of a BSR after a logical channel for the second service triggers the BSR, and the predetermined condition is that the time parameter is prior to the uplink transmission timing corresponding to the uplink resource allocation indication information for the first service.

19. An electronic device, comprising:

a processor; and

a memory configured to store instructions executable by the processor,

wherein the processor is configured to perform the triggering retaining method according to any one of claims 1 to 9.

20. A computer-readable storage medium, have stored a computer program that, when executed by a processor, implements the triggering retaining method according to any one of claims 1 to 9.