WHAT IS CLAIMED IS

1. An apparatus comprising:

at least one processor; and

at least one memory storing instructions that, when executed by the at least one processor, cause the apparatus at least to:

obtain a configuration at least for a legacy type of buffer status reporting, BSR, medium access control, MAC, control element, CE and for a new type of BSR MAC CE, wherein the legacy type of BSR MAC CE is associated with a first buffer size table and the new type of BSR MAC CE is associated with the first buffer size table and a second buffer size table, the configuration defining at least that:

either one of the legacy type of BSR MAC CE and the new type of BSR MAC CE may be used to report a buffer status of a logical channel group, LCG, wherein a logical channel group identifier, LCG ID, refers to the LCG for which the buffer status is reported, wherein a logical channel identifier, LCID, of the BSR MAC CE indicates the type of the BSR MAC CE used for reporting the buffer status of the LCG;

determine that the buffer size of the LCG falls out of a range of the second buffer size table; and

based on the determining, transmit the legacy type of BSR MAC CE to a network device.

2. The apparatus of claim 1, wherein a range of the first buffer size table and the range of the second buffer size table are overlapping.

3. The apparatus of claim 2, wherein the second buffer size table covers only a subrange of the first buffer size table.

4. The apparatus of any one of claims 2-3, wherein the second buffer size table provides finer granularity than the first buffer size table.

5. The apparatus of any of claims 1 to 4, wherein a buffer size table associated with each transmitted BSR MAC CE is indicated by one of a first set of one or more

LCIDs associated with the legacy type of BSR MAC CE or by one of a second set of one or more LCIDs associated with the new type of BSR MAC CE.

6. The apparatus of any of claims 1 to 5, wherein the apparatus is further caused to:

determine that the first buffer size table is applicable for reporting the buffer status of a plurality of LCGs; and

report the buffer status of the plurality of LCGs with the legacy type of BSR MAC CE.

7. The apparatus of any of claims 1 to 6, wherein the apparatus is caused to:

determine that different buffer size tables are required for reporting the buffer status of a plurality of LCGs having non-zero buffer size; and

report the buffer status of the plurality of LCGs using the new type BSR MAC CE.

8. The apparatus of any of claims 1 to 7, wherein the apparatus is further caused to:

refrain from using the legacy type of BSR MAC CE for reporting buffer status of an LCG when a delay information report is configured for that LCG or for a logical channel within the LCG.

9. A method comprising:

obtaining a configuration at least for a legacy type of BSR MAC CE and for a new type of BSR MAC CE, wherein the legacy type of BSR MAC CE is associated with a first buffer size table and the new type of BSR MAC CE is associated with the first buffer size table and a second buffer size table, the configuration defining at least that:

either one of the legacy type of BSR MAC CE and the new type of BSR MAC CE may be used to report a buffer status of a LCG, wherein a LCG ID refers to the LCG for which the buffer status is reported, wherein a LCID of the BSR MAC CE indicates the type of the BSR MAC CE used for reporting the buffer status of the LCG;

determining that the buffer size of the LCG falls out of a range of the second

buffer size table; and

based on the determining, transmitting the legacy type of BSR MAC CE to a network device.

10. The method of claim 9, wherein a range of the first buffer size table and the range of the second buffer size table are overlapping.

11. The method of claim 10, wherein the second buffer size table covers only a subrange of the first buffer size table.

12. The method of any one of claims 10-11, wherein the second buffer size table provides finer granularity than the first buffer size table.

13. The method of any one of claims 9-12, wherein a buffer size table associated with each transmitted BSR MAC CE is indicated by one of a first set of one or more LCIDs associated with the legacy type of BSR MAC CE or by one of a second set of one or more LCIDs associated with the new type of BSR MAC CE.

14. The method of any one of claims 9-13, further comprising:

determining that the first buffer size table is applicable for reporting the buffer status of a plurality of LCGs; and

reporting the buffer status of the plurality of LCGs with the legacy type of BSR MAC CE.

15. The method of any one of claims 9-14, further comprising:

determining that different buffer size tables are required for reporting the buffer status of a plurality of LCGs having non-zero buffer size; and

reporting the buffer status of the plurality of LCGs using the new type BSR MAC CE.

16. The method of any one of claims 9-15, further comprising:

refraining from using the legacy type of BSR MAC CE for reporting buffer

status of an LCG when a delay information report is configured for that LCG or for a logical channel within the LCG.

17. A non-transitory computer readable medium comprising instructions stored thereon which, when executed with at least one processor of an apparatus, cause the apparatus to perform at least the following:

obtain a configuration at least for a legacy type of buffer status reporting, BSR, medium access control, MAC, control element, CE and for a new type of BSR MAC CE, wherein the legacy type of BSR MAC CE is associated with a first buffer size table and the new type of BSR MAC CE is associated with the first buffer size table and a second buffer size table, the configuration defining at least that:

either one of the legacy type of BSR MAC CE and the new type of BSR MAC CE may be used to report a buffer status of a logical channel group, LCG, wherein a logical channel group identifier, LCG ID, refers to the LCG for which the buffer status is reported, wherein a logical channel identifier, LCID, of the BSR MAC CE indicates the type of the BSR MAC CE used for reporting the buffer status of the LCG;

determine that the buffer size of the LCG falls out of a range of the second buffer size table; and

based on the determining, transmit the legacy type of BSR MAC CE to a network device.

18. The non-transitory computer readable medium of claim 17, wherein a range of the first buffer size table and the range of the second buffer size table are overlapping.

19. The non-transitory computer readable medium of claim 18, wherein the second buffer size table covers only a subrange of the first buffer size table.

20. The non-transitory computer readable medium of any one of claims 18-19, wherein the second buffer size table provides finer granularity than the first buffer size table.

21. The non-transitory computer readable medium of any one of claims 17-20, wherein a buffer size table associated with each transmitted BSR MAC CE is indicated by one of a first set of one or more LCIDs associated with the legacy type of BSR MAC CE or by one of a second set of one or more LCIDs associated with the new type of BSR MAC CE.

22. The non-transitory computer readable medium of any one of claims 17-21, further comprising instructions stored thereon which, when executed with the at least one processor, cause the apparatus to perform the following:

determine that the first buffer size table is applicable for reporting the buffer status of a plurality of LCGs; and

report the buffer status of the plurality of LCGs with the legacy type of BSR MAC CE.

23. The non-transitory computer readable medium of any one of claims 17-22, further comprising instructions stored thereon which, when executed with the at least one processor, cause the apparatus to perform the following:

determine that different buffer size tables are required for reporting the buffer status of a plurality of LCGs having non-zero buffer size; and

report the buffer status of the plurality of LCGs using the new type BSR MAC CE.

24. The non-transitory computer readable medium of any one of claims 17-23, further comprising instructions stored thereon which, when executed with the at least one processor, cause the apparatus to perform the following:

refrain from using the legacy type of BSR MAC CE for reporting buffer status of an LCG when a delay information report is configured for that LCG or for a logical channel within the LCG.