CLAIMS

1. A method in a user equipment (120) for handling a scheduling request trigger, the user equipment (120) comprising a buffer (900), the method comprising:

receiving (501) data to be transmitted to a base station (110), which data arrives into the buffer (900),

generating (502) a buffer status report trigger, which generation of buffer status report trigger is triggered by the arrived data,

generating (503) a scheduling request trigger, which scheduling request trigger is pending until it is cancelled, and which generating is triggered by the generation of the buffer status report trigger which in turn was triggered by the arrived data,,

cancelling (504) the pending scheduling request trigger when the data that triggered the generation of the scheduling request trigger is accounted for in a buffer status report to be included in a scheduled data transmission to be transmitted to the base station (110), or if a currently scheduled data transmission will include all of the arrived data that caused the buffer status report trigger that triggered the scheduling request to be generated, whichever occurs first.

2. Method according to claim 1, wherein the step of cancelling (504) is performed by cancelling the buffer status report trigger, which in turn triggers the canceling of the scheduling request trigger.

3. A method in a user equipment (120) for handling a scheduling request trigger, the user equipment (120) comprising a buffer (900), the method comprising:

receiving (501) data to be transmitted to a base station (110), which data arrives into the buffer (900),

generating (503) a scheduling request trigger, which scheduling request trigger is pending until it is cancelled, and which generating is triggered directly or indirectly by the arrived data,

cancelling (505) the pending scheduling request trigger at any time, but keeping track of what data that has either been accounted for in the buffer status report to be included in a scheduled data transmission or included directly in the scheduled data transmission and what data that has not been accounted for in any

of these two ways, and when a next scheduling request opportunity appears, *sending* (506) a scheduling request if and only if the buffer comprises data that has not yet been accounted for in any of the two ways mentioned.

4. Method according to claim 3, further comprising:

generating (502) a buffer status report trigger, which generation of buffer status report trigger is triggered by the arrived data,

and wherein the step of generating (503) a scheduling request trigger is performed indirectly by the arrived data, by being triggered by the generation of the buffer status report trigger which in turn was triggered by the arrived data.

5. Method according to claim 4, wherein the steps of cancelling (505) is performed by cancelling the buffer status report trigger, which in turn triggers the canceling of the scheduling request trigger.

6. A method in a user equipment (120) for handling a scheduling request trigger, the user equipment (120) comprising a buffer (900), the method comprising:

receiving (501) data to be transmitted to a base station (110), which data arrives into the buffer (900),

generating (502) a buffer status report trigger, which generation of buffer status report trigger is triggered by the arrived data,

generating (503) a scheduling request trigger, which scheduling request trigger is pending until it is cancelled, and which generating is triggered by the generation of the buffer status report trigger which in turn was triggered by the arrived data,

cancelling (504) the pending scheduling request trigger when the data that triggered the generation of the scheduling request trigger is accounted for in a buffer status report to be included in a scheduled data transmission to be transmitted to the base station (110), or if a currently scheduled data transmission will include all of the arrived data that caused the buffer status report trigger that triggered the scheduling request to be generated, whichever occurs first,

or alternatively *cancelling* (505) the pending scheduling request trigger at any time, but keeping track of what data that has been accounted for in the buffer status report to be included in a scheduled data transmission and what data that has not been accounted for, and when a next scheduling request opportunity

appears, *sending* (506) a scheduling request if and only if the buffer comprises data that has not yet been accounted for in the buffer status report.

7. Method according to claim 6, wherein the steps of cancelling (504,505) are performed by cancelling the buffer status report trigger, which in turn triggers the canceling of the scheduling request trigger.

8. A user equipment (120) for handling a scheduling request trigger, the user equipment (120) comprising:

a buffer (900) configured to receive data to be transmitted to a base station (110),

wherein the user equipment (120) is further configured to generate a buffer status report trigger, which generation of buffer status report trigger is triggered by the arrived data, the user equipment (120) further comprising:

a generating unit (920) configured to generate a scheduling request trigger, which scheduling request trigger is pending until it is cancelled, and which generating is triggered by the generation of the buffer status report trigger which in turn was triggered by the arrived data,

a cancelling unit (930) configured to cancel the pending scheduling request trigger when the data that triggered the generation of the scheduling request trigger is accounted for in a buffer status report to be included in a scheduled data transmission to be transmitted to the base station (110), or if a currently scheduled data transmission will include all of the arrived data that caused the buffer status report trigger that triggered the scheduling request to be generated, whichever occurs first.

9. A user equipment (120) for handling a scheduling request trigger, the user equipment (120) comprising:

a buffer (900) configured to receive data to be transmitted to a base station (110),

a generating unit (920) configured to generate a scheduling request trigger, which scheduling request trigger is pending until it is cancelled, and which generating is triggered directly or indirectly by the arrived data,

a cancelling unit (930) configured to cancel the pending scheduling request trigger at any time, but keeping track of what data that has either been accounted for in the buffer status report to be included in a scheduled data transmission or included directly in the scheduled data transmission and what data that has not been accounted for in any of these two ways, and the user equipment (120) further comprising a sending unit (940) configured to, when a next scheduling request opportunity appears, send a scheduling request if and only if the buffer comprises data that has not yet been accounted for in any of the two ways mentioned.

10. A user equipment (120) for handling a scheduling request trigger, the user equipment (120) comprising:

a buffer (900) configured to receive data to be transmitted to a base station (110), which data arrives into the buffer (900),

wherein the user equipment (120) is further configured to generate a buffer status report trigger, which generation of buffer status report trigger is triggered by the arrived data, the user equipment (120) further comprising:

a generating unit (920) configured to generate a scheduling request trigger, which scheduling request trigger is pending until it is cancelled, and which generating is triggered by the generation of the buffer status report trigger which in turn was triggered by the arrived data,

a cancelling unit (930) configured to cancel the pending scheduling request trigger when the data that triggered the generation of the scheduling request trigger is accounted for in a buffer status report to be included in a scheduled data transmission to be transmitted to the base station (110), or if a currently scheduled data transmission will include all of the arrived data that caused the buffer status report trigger that triggered the scheduling request to be generated, whichever occurs first,

or alternatively the cancelling unit (930) being configured to cancel the pending scheduling request trigger at any time, but keeping track of what data that has been accounted for in the buffer status report to be included in a scheduled data transmission and what data that has not been accounted for, and when a next scheduling request opportunity appears, and the user equipment (120) further comprising a sending unit (940) configured to send a scheduling request if and only if the buffer comprises data that has not yet been accounted for in the buffer status report.