

WHAT IS CLAIMED IS:

1. A method performed by a terminal device, the method comprising:
 - 5 receiving configuration parameters for downlink control channel monitoring according to a first and a second time pattern;
 - performing, ~~by a terminal device, the~~ downlink control channel monitoring according to ~~a~~the first time pattern;
 - determining that data has been transmitted on the downlink on a number of
 - 10 symbols;
 - based on the determination that the data is transmitted, suspending the performing of the downlink control channel monitoring according to the first time pattern; and
 - performing the downlink control channel monitoring according to the second
 - 15 time pattern on at least a next symbol after the end of the transmission of the data.
- ~~2. The method of claim 1, further comprising:~~
 - ~~performing downlink control channel monitoring according to a second time pattern at least for one next slot after the end of the transmission of the data.~~
- ~~3. The method of claim 1, wherein the terminal device has received configuration parameters for the downlink control channel monitoring according to the first and the second time pattern.~~
- 25 42. The method of claim 1, further comprising:
 - performing the downlink control channel monitoring on at least the next symbol after the transmission of the data based on at least ~~one of~~ a set of configuration parameters of the downlink control channel monitoring associated to ~~at least one of the first time pattern and a~~the second time pattern.
 - 30
- ~~53.~~ The method of claim 1 or 2, wherein the data is transmitted on physical downlink shared channel.

~~64.~~ The method of any one of claims 1 to 3, wherein the determination that the data is transmitted is based on at least one of detecting a downlink assignment intended for the terminal device on the downlink control channel, and detecting downlink control information intended for a group of terminal devices.

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~~75.~~ The method of any one of claims 1 to 4, further comprising:
determining, by the terminal device, that the downlink transmission has ended;
and

based on the determination that the downlink transmission has ended,

10 suspending the downlink control channel monitoring according to ~~a~~the second time pattern.

~~86.~~ The method of any one of claims 1 to 5, further comprising:
determining, by the terminal device, that- there is no downlink transmission
15 from a base station; and

based on the determination that- there is no downlink transmission from the base station, performing the downlink control channel monitoring according to the first time pattern.

20 ~~97.~~ The method of any one of claims 1 to 6, wherein the first time pattern has more than one downlink control channel monitoring occasion per slot and ~~a~~the second time pattern follows slot periodicity.

~~108.~~ The method of any one of claims 1 to 7, wherein the downlink control channel
25 monitoring is performed on an unlicensed band.

~~119.~~ An apparatus for a terminal device, comprising:
means for receiving configuration parameters for downlink control channel
monitoring according to a first and a second time pattern;

30 means for performing the downlink control channel monitoring according to a first time pattern;

means for determining that data has been transmitted on the downlink on a number of symbols;

~~based on the determination that the data is transmitted~~, means for suspending the performing of downlink control channel monitoring according to the first time pattern, based on the determination that the data is transmitted; and

means for performing downlink control channel monitoring according to the second time pattern on at least a next symbol after the end of the transmission of the data.

~~12. The apparatus of claim 11, further comprising:~~

~~means for performing downlink control channel monitoring according to a second time pattern at least for one next slot after the end of the transmission of the data.~~

~~13. The apparatus of claim 11, wherein the apparatus has received configuration parameters for the downlink control channel monitoring according to the first and the second time pattern.~~

~~14~~10. The apparatus of claim ~~11~~9, further comprising:

means for performing the downlink control channel monitoring on at least the next symbol after the transmission of the data based on at least ~~one of~~ a set of configuration parameters of the downlink control channel monitoring associated to ~~at least one of the first time pattern and at the~~ second time pattern.

~~15~~11. The apparatus of claim ~~11~~9 or 10, wherein the data is transmitted on physical downlink shared channel.

~~16~~12. The apparatus of any one of claims 9 to 11, wherein the determination that the data is transmitted is based on at least one of detecting a downlink assignment intended for the terminal device on the downlink control channel, and detecting downlink control information intended for a group of terminal devices.

~~17~~13. The apparatus of any one of claims 9 to 11~~12~~, further comprising:
means for determining that downlink transmission has ended; and

~~based on the determination that the downlink transmission has ended~~, means for suspending the downlink control channel monitoring according to ~~a~~the second time pattern based on the determination that the downlink transmission has ended.

- 5 ~~1814~~. A method performed by a base station, the method comprising:
transmitting configuration parameters for a downlink control channel
monitoring according to a first and a second time pattern for at least one terminal
device;
transmitting, ~~by a base station~~, a first downlink assignment for at least one
10 terminal device on a downlink control channel on a monitoring occasion of ~~a~~the first
time pattern;
transmitting data on a downlink shared channel associated to the first downlink
assignment;
transmitting a second downlink assignment on a downlink control channel
15 monitoring for the at least one terminal device on at least the next symbol after
transmission of the data; and
transmitting a third downlink assignment for at least one terminal device on a
downlink control channel on a monitoring occasion of ~~a~~the second time pattern;
wherein the first time pattern has more than one downlink control channel
20 monitoring occasion per slot and said ~~second~~ time pattern follows slot periodicity.

- ~~1915~~. An apparatus for a base station, comprising:
means for transmitting configuration parameters for a downlink control
channel monitoring according to a first and a second time pattern for at least one
25 terminal device
means for transmitting a first downlink assignment for at least one terminal
device on a downlink control channel on a monitoring occasion of ~~a~~the first time
pattern;
means for transmitting data on a downlink shared channel associated to the first
30 downlink assignment;
means for transmitting a second downlink assignment on a downlink control
channel monitoring for the at least one terminal device on at least the next symbol after
transmission of the data; and

means for transmitting a third downlink assignment for at least one terminal device on a downlink control channel on a monitoring occasion of ~~a~~the second time pattern;

5 wherein the first time pattern has more than one downlink control channel monitoring occasion per slot and said- second time pattern follows slot periodicity.

~~20~~16. A non-transitory computer readable medium encoded with instructions that, when executed by a computer, cause performance of a method according to any of claims 1-~~10~~8 and ~~18~~14.