WHAT IS CLAIMED IS:

1. A method comprising:

receiving, at a first device ~~and from a second device~~, information indicating a plurality of configured grant resources and a plurality of hybrid automatic repeat request, HARQ, processes, the plurality of HARQ processes shared by the plurality of configured grant resources, wherein the plurality of configured grant resources are configured in one bandwidth part for the first device;

~~in response to a determination that data needs to be transmitted on one of the plurality of configured grant resources,~~ selecting a HARQ process from the plurality of HARQ processes based on at least a timer status of the HARQ process; and

transmitting the data ~~to the second device~~ on ~~the~~ one of the plurality of configured grant resources using the selected HARQ process.

2. The method of claim 1, wherein the selecting the HARQ process from the plurality of HARQ processes comprises:

extracting from the information criteria for selection of the HARQ processes; and

selecting the HARQ process from the plurality of HARQ processes based on the criteria.

3. The method of claim 1, wherein the selecting the HARQ process from the plurality of HARQ processes [[÷]] comprises:

determining, from the plurality of HARQ processes, a set of available HARQ processes;

~~in response to the number of HARQ processes in the set of available HARQ process being below a threshold number,~~ determining a priority of the data based on a number of HARQ processes in the set of the available HARQ processes; and

~~in response to the priority exceeding a threshold priority,~~ selecting the HARQ process from the set of available HARQ processes based on the priority of the data.

4. The method of claim 1, wherein the selecting the HARQ process from the plurality of HARQ processes comprises:

determining a first set of HARQ processes from the plurality of HARQ processes based on the information, the first set of HARQ processes is used for data with priorities

higher than a threshold priority;

determining a priority of the data; and

in response to the –priority exceeding the threshold priority, selecting the HARQ process from the first set of HARQ processes.

5. The method of claim 1, wherein the selecting the HARQ process from the plurality of HARQ processes comprises:

determining a second set of HARQ processes from the plurality of HARQ processes based on the information, data with priorities lower than a threshold priority being only allowed to using the second set of HARQ processes-;

determining a priority of the data; and

in response to the priority being below the threshold priority, selecting the HARQ process from the second set of HARQ processes.

~~6. The method of claim 4 or 5, wherein the second set of HARQ processes is a subset of the first set of HARQ processes.~~

~~7~~6. The method of any one of claims 3 to 5, wherein ~~determining the priority of the data comprises:~~

~~determining~~ the priority of the data is determined based on at least one of:

a priority of a logical channel/logical channel group to which the data belongs,

a buffered time of the data, or

a priority of a traffic to which medium access control (MAC) control element (CE) contained in the data relates.

~~8. The method of claim 1, wherein selecting the HARQ process from the plurality of HARQ processes comprises:~~

~~determining a third set of HARQ processes from the plurality of HARQ processes based on the information, the third set of HARQ processes being used for the one of the plurality of configured grant resources; and~~

~~selecting the HARQ from the third set of HARQ processes.~~

~~9. The method of claim 8, further comprising:~~

~~determining a fourth set of HARQ processes from the plurality of HARQ processes~~

based on the information, the fourth set of HARQ processes being used for a further one of the plurality of configured grant resources, the fourth set of HARQ processes being a subset of the third set of HARQ processes.

10. The method of claim 1, wherein selecting the HARQ process from the plurality of HARQ processes comprises:

determining a logical channel to which the data belongs;

determining the number of HARQ processes currently used by the channel; and

in response to the number being below a threshold number, selecting the HARQ process from the plurality of HARQ processes.

11. The method of claim 1, wherein the first device comprises a terminal device.

127. A method comprising:

generating, at a second device, information indicating a plurality of configured grant resources and a plurality of hybrid automatic repeat request, HARQ, processes, the plurality of HARQ processes shared by the plurality of configured grant resources, wherein the plurality of configured grant resources are configured in one bandwidth part for the first device;

transmitting the information to a first device; and

receiving data from the first device on one of the plurality of configured grant resources using a HARQ process from the plurality of HARQ processes.

138. The method of claim 127, wherein the generating the information comprises:

generating criteria for selection of the HARQ process; and

adding the criteria to the information.

149. The method of claim 127, wherein generating the information comprises:

generating the information to indicates at least one of:

a first set of HARQ processes from the plurality of HARQ processes, the first set of HARQ processes being used for data with priorities higher than a threshold priority;

a second set of HARQ processes from the plurality of HARQ processes, data with priorities lower than a threshold priority being only allowed to use the

second set of HARQ processes;

a third set of HARQ processes from the plurality of HARQ processes based on the information, the third set of HARQ processes being used for one of the plurality of configured grant resources;

a threshold number of available HARQ processes in the plurality of HARQ processes; or

the threshold priority.

~~15. The method of claim 12, wherein the first device comprises a terminal device and the second device comprises a network device.~~

~~16~~10. A first device comprising:

at least one processor; and

at least one memory including computer program codes;

the at least one memory and the computer program codes are configured to, with the at least one processor, cause the first device to~~: perform the method of any one of claims 1-9~~11

receive information indicating a plurality of configured grant resources and a plurality of hybrid automatic repeat request, HARQ, processes, the plurality of HARQ processes shared by the plurality of configured grant resources, wherein the plurality of configured grant resources are configured in one bandwidth part for the first device;

select a HARQ process from the plurality of HARQ processes based on at least a timer status of the HARQ process; and

transmit the data on the one of the plurality of configured grant resources using the HARQ process.

11. The first device of claim 10, wherein the at least one memory and the computer program codes are further configured to, with the at least one processor, cause the first device to:

extract from the information criteria for selection of the HARQ processes; and

select the HARQ process from the plurality of HARQ processes based on the criteria.

12. The first device of claim 10, wherein the at least one memory and the computer

program codes are further configured to, with the at least one processor, cause the first device to:

determine, from the plurality of HARQ processes, a set of available HARQ processes;

determine a priority of the data based on a number of HARQ processes in the set of the available HARQ processes; and

select the HARQ process from the set of available HARQ processes based on the priority of the data.

13. The first device of claim 10, wherein the at least one memory and the computer program codes are further configured to, with the at least one processor, cause the first device to:

determine a first set of HARQ processes from the plurality of HARQ processes based on the information, the first set of HARQ processes is used for data with priorities higher than a threshold priority;

determine a priority of the data; and

in response to the priority exceeding the threshold priority, select the HARQ process from the first set of HARQ processes.

14. The first device of claim 10, wherein the at least one memory and the computer program codes are further configured to, with the at least one processor, cause the first device to:

determine a second set of HARQ processes from the plurality of HARQ processes based on the information, data with priorities lower than a threshold priority being only allowed to use the second set of HARQ processes;

determine a priority of the data; and

in response to the priority being below the threshold priority, select the HARQ process from the second set of HARQ processes.

15. The first device of any one of claims 12 to 14, wherein the priority of the data is determined based on at least one of:

a priority of a logical channel/logical channel group to which the data belongs,

a buffered time of the data, or

a priority of a traffic to which medium access control (MAC) control element (CE) contained in the data relates.

~~17~~16. A second device comprising:

at least one processor; and

at least one memory including computer program codes;

the at least one memory and the computer program codes are configured to, with the at least one processor, cause the second device to: ~~perform the method of any one of claims 10~~12 ~~14~~15

generate information indicating a plurality of configured grant resources and a plurality of hybrid automatic repeat request, HARQ, processes, the plurality of HARQ processes shared by the plurality of configured grant resources, wherein the plurality of configured grant resources are configured in one bandwidth part;

transmit the information to a first device; and

receive data from the first device on one of the plurality of configured grant resources using a HARQ process from the plurality of HARQ processes.

17. The second device of claim 16, wherein the at least one memory and the computer program codes are further configured to, with the at least one processor, cause the first device to:

generate criteria for selection of the HARQ process; and

add the criteria to the information.

18. The second device of claim 16, wherein the information indicates at least one of:

a first set of HARQ processes from the plurality of HARQ processes, the first set of HARQ processes being used for data with priorities higher than a threshold priority;

a second set of HARQ processes from the plurality of HARQ processes, data with priorities lower than a threshold priority being only allowed to use the second set of HARQ processes;

a third set of HARQ processes from the plurality of HARQ processes based on the information, the third set of HARQ processes being used for one of the plurality of configured grant resources;

a threshold number of available HARQ processes in the plurality of HARQ processes; or

the threshold priority.

~~18. An apparatus for communication comprising:~~

~~means for receiving, at a first device, information indicating a plurality of configured grant resources and a plurality of hybrid automatic repeat request, HARQ, processes, the plurality of HARQ processes shared by the plurality of configured grant resources;~~

~~means for in response to a determination that data needs to be transmitted on one of the plurality of configured grant resources, selecting a HARQ process from the plurality of HARQ processes; and~~

~~means for transmitting the data on the one of the plurality of configured grant resources using the selected HARQ process.~~

~~19. An apparatus for communication comprising:~~

~~means for generating, at a second device, information indicating a plurality of configured grant resources and a plurality of hybrid automatic repeat request, HARQ, processes, the plurality of HARQ processes shared by the plurality of configured grant resources;~~

~~means for transmitting the information to a first device; and~~

~~means for receiving data from the first device on one of the plurality of configured grant resources using a HARQ process from the plurality of HARQ processes.~~

~~20~~19. A computer readable medium storing instructions thereon, the instructions, when executed by at least one processing unit of a machine, causing the machine to perform ~~the method according to any one of claims 1-15~~:

receiving information indicating a plurality of configured grant resources and a plurality of hybrid automatic repeat request, HARQ, processes, the plurality of HARQ processes shared by the plurality of configured grant resources, wherein the plurality of configured grant resources are configured in one bandwidth part for the first device;

selecting a HARQ process from the plurality of HARQ processes based on at least a timer status of the HARQ process; and

transmitting the data on the one of the plurality of configured grant resources using the selected HARQ process.

20. The computer readable medium of claim 19, wherein the computer readable medium further causes the machine to perform:

extracting from the information criteria for selection of the HARQ processes; and

selecting the HARQ process from the plurality of HARQ processes based on the criteria.

21. The computer readable medium of claim 19, wherein the computer readable medium further causes the machine to perform:

determining, from the plurality of HARQ processes, a set of available HARQ processes;

determining a priority of the data based on a number of HARQ processes in the set of the available HARQ processes; and

selecting the HARQ process from the set of available HARQ processes based on the priority of the data.

22. The computer readable medium of claim 21, wherein the computer readable medium further causes the machine to perform:

determining the priority of the data based on at least one of:

a priority of a logical channel/logical channel group to which the data belongs,

a buffered time of the data, or

a priority of a traffic to which medium access control (MAC) control element (CE) contained in the data relates.

23. A computer readable medium storing instructions thereon, the instructions, when executed by at least one processing unit of a machine, causing the machine to perform:

generating information indicating a plurality of configured grant resources and a plurality of hybrid automatic repeat request, HARQ, processes, the plurality of HARQ processes shared by the plurality of configured grant resources, wherein the plurality of configured grant resources are configured in one bandwidth part;

transmitting the information to a first device; and

receiving data from the first device on one of the plurality of configured grant resources using a HARQ process from the plurality of HARQ processes.

24. The computer readable medium of claim 23, wherein the computer readable medium further causes the machine to perform:

generating criteria for selection of the HARQ process; and

adding the criteria to the information.

25. The computer readable medium of claim 23, wherein the information indicates at least one of:

a first set of HARQ processes from the plurality of HARQ processes, the first set of HARQ processes being used for data with priorities higher than a threshold priority;

a second set of HARQ processes from the plurality of HARQ processes, data with priorities lower than a threshold priority being only allowed to use the second set of HARQ processes;

a third set of HARQ processes from the plurality of HARQ processes based on the information, the third set of HARQ processes being used for one of the plurality of configured grant resources;

a threshold number of available HARQ processes in the plurality of HARQ processes; or

the threshold priority.