CLAIMS

1. A communication apparatus, comprising:

a transceiver which, in operation

receives an indication for a set of one or more transmission configuration indication, TCI, states; and

circuitry which, in operation:

configures one or more transmission occasions for an uplink or downlink transmission channel, the one or more transmission occasions being associated with the set of one or more TCI states.

2. The communication apparatus according to claim 1, wherein

an association between one or more TCI state groups and the set of one or more TCI states is configured; and

a TCI state out of the set of one or more TCI states is associated with a group out of the one or more TCI state groups.

3. The communication apparatus according to claim 1, wherein

the circuitry obtains one or more TCI state groups for the set of one or more TCI states, and

a TCI state group out of the one or more TCI state groups corresponds to one or more spatial directions.

4. The communication apparatus according to claim 2, wherein

the one or more TCI state groups are two TCI state groups .

5. The communication apparatus according to claim 2, wherein

a higher layer configuration includes one or more lists, the one or more lists including TCI states out of the set of one or more TCI states; and

in the association between the one or more TCI state groups and the set of one or more TCI states, each list out of the one or more lists, is associated with a respective group out of the one or more TCI state groups.

6. The communication apparatus according to any of claims 4 or 5, wherein the indication for the set of one or more TCI states is associated with at most a maximum number of set(s) of one or more TCI state groups.

7. The communication apparatus according to claim 1, wherein the circuitry, in operation, determines an association of TCI states in the indication and TCI state groups by an ordering of TCI states in the indication.

8. The communication apparatus according to any of the claims 1 to 7, wherein the circuitry, in operation, updates the set of one or more TCI states based on the indication and keeps a previous indicated set of one or more TCI states that is not updated by indication.

9. A method for configuring transmission occasions by a communication apparatus, the method comprising:

receiving an indication for a set or more one or more transmission configuration indication, TCI, states; and

configuring one or more transmission occasions for an uplink or downlink transmission channel, the one or more transmission occasions being associated with the set of one or more TCI states.

10. A base station comprising:

circuitry which, in operation:

generates an indication for a set of one or more transmission configuration indication, TCI, states, to instruct a communication apparatus to configure one or more transmission occasions for an uplink or downlink transmission channel the one or more transmission occasions being associated with the set of one or more TCI states; and

a transceiver which, in operation:

transmits the indication for the set of one or more TCI states.

11. The base station according to claim 10, wherein the set of one or more TCI states is updated based on the indication, and a previous indicated set of one or more TCI states that is not updated by indication is kept.

12. A method for transmitting a configuration indication by a base station, the method comprising

generating an indication for a set of one or more transmission configuration indication, TCI, states to instruct a communication apparatus, to configure one or more transmission occasions for an uplink or downlink transmission channel the one or more transmission occasions being associated with the set of one or more TCI states; and

transmitting the indication for the set of one or more TCI states.

13. An integrated circuit, which, in operation, controls a process of a communication apparatus, the process comprising the following steps performed by the communication apparatus:

- receiving an indication for a set of one or more transmission configuration indication, TCI, states; and
- configuring one or more transmission occasions for an uplink or downlink transmission channel, the one or more transmission occasions being associated with the set of one or more TCI states.

14. An integrated circuit, which, in operation, controls a process of a base station, the process comprising the following steps performed by the network node:

- generating an indication for a set of one or more transmission configuration indication, TCI, states, to instruct a communication apparatus, to configure one or more transmission occasions for an uplink or downlink transmission channel, the one or more transmission occasions being associated with the set of one or more TCI states; and
- transmitting the indication for the set of one or more TCI states.